



Humboldt Bay Municipal Water District 12 kV Switchgear Relocation Project Bid Addendum #2

The purpose of this Addendum is to modify the Contract Documents for the subject project. This Addendum shall become part of said Contract Documents.

Bidders shall acknowledge receipt of this Addendum in their bid proposal.

This Addendum addresses the following items:

1. A new gate will be installed on the west side of the Integrated Power Assembly. Sheet E-401 shows the southern gate post very near the new underground utility trench coming to/from Vault V-1. To give more space between this post and the utility trench, the gate shall be decreased from 12 feet long to 10 feet, with the hinge point remaining in the same location. This change has been made on the following attached revised Sheets: C-101, C-501, and E-401.
2. Sheet C-101 references two sections at the concrete ramp: Section A, Sheet C-301; and Section B, Sheet C-301. There is no Sheet C-301 in the Contract Drawings. These section references shall be updated to reference Sections A and B on Sheet C-501, as shown in the attached revised Sheet C-101.

Enclosed:

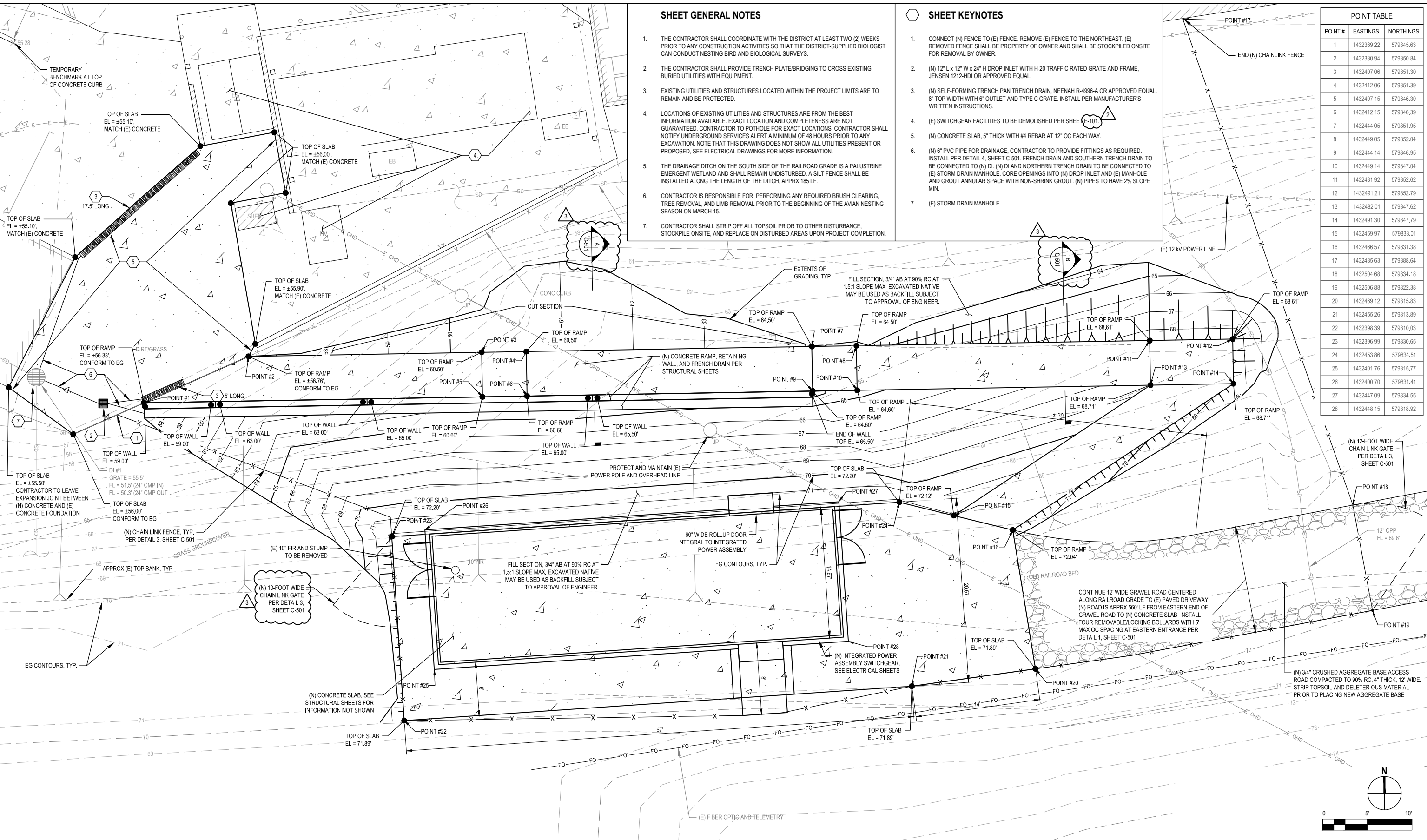
- Revised Sheet C-101
- Revised Sheet C-501
- Revised Sheet E-401

END OF ADDENDUM

12/3/19

Date

Signature



SHEET GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE DISTRICT AT LEAST TWO (2) WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITIES SO THAT THE DISTRICT-SUPPLIED BIOLOGIST CAN CONDUCT NESTING BIRD AND BIOLOGICAL SURVEYS.
2. THE CONTRACTOR SHALL PROVIDE TRENCH PLATE/BRIDGING TO CROSS EXISTING BURIED UTILITIES WITH EQUIPMENT.
3. EXISTING UTILITIES AND STRUCTURES LOCATED WITHIN THE PROJECT LIMITS ARE TO REMAIN AND BE PROTECTED.
4. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR TO POHOLE FOR EXACT LOCATIONS. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION. NOTE THAT THIS DRAWING DOES NOT SHOW ALL UTILITIES PRESENT OR PROPOSED, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. THE DRAINAGE DITCH ON THE SOUTH SIDE OF THE RAILROAD GRADE IS A PALUSTRINE EMERGENT WETLAND AND SHALL REMAIN UNDISTURBED. A SILT FENCE SHALL BE INSTALLED ALONG THE LENGTH OF THE DITCH, APPROX 185 LF.
6. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY REQUIRED BRUSH CLEARING, TREE REMOVAL, AND LIMB REMOVAL PRIOR TO THE BEGINNING OF THE AVIAN NESTING SEASON ON MARCH 15.
7. CONTRACTOR SHALL STRIP OFF ALL TOPSOIL PRIOR TO OTHER DISTURBANCE, STOCKPILE ONSITE, AND REPLACE ON DISTURBED AREAS UPON PROJECT COMPLETION.

SHEET KEYNOTES

1. CONNECT (N) FENCE TO (E) FENCE. REMOVE (E) FENCE TO THE NORTHEAST. (E) REMOVED FENCE SHALL BE PROPERTY OF OWNER AND SHALL BE STOCKPILED ONSITE FOR REMOVAL BY OWNER.
2. (N) 12' L x 12' W x 24" H DROP INLET WITH H-20 TRAFFIC RATED GRATE AND FRAME, JENSEN 1212-HDI OR APPROVED EQUAL.
3. (N) SELF-FORMING TRENCH PAN TRENCH DRAIN, NEENAH R-4996-A OR APPROVED EQUAL. 8" TOP WIDTH WITH 6" OUTLET AND TYPE C GRATE. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. (E) SWITCHGEAR FACILITIES TO BE DEMOLISHED PER SHEET E-101.
5. (N) CONCRETE SLAB, 5" THICK WITH #4 REBAR AT 12" OC EACH WAY.
6. (N) 6" PVC PIPE FOR DRAINAGE. CONTRACTOR TO PROVIDE FITTINGS AS REQUIRED. INSTALL PER DETAIL 4, SHEET C-501. FRENCH DRAIN AND SOUTHERN TRENCH DRAIN TO BE CONNECTED TO (N) DI. (N) DI AND NORTHERN TRENCH DRAIN TO BE CONNECTED TO (E) STORM DRAIN MANHOLE. CORE OPENINGS INTO (N) DROP INLET AND (E) MANHOLE AND GROUT ANNUAL SPACE WITH NON-SHRINK GROUT. (N) PIPES TO HAVE 2% SLOPE MIN.
7. (E) STORM DRAIN MANHOLE.

POINT TABLE

POINT #	EASTINGS	NORTHINGS
1	1432369.22	579845.63
2	1432380.94	579850.84
3	1432407.06	579851.30
4	1432412.06	579851.39
5	1432407.15	579846.30
6	1432412.15	579846.39
7	1432444.05	579851.95
8	1432449.05	579852.04
9	1432444.14	579846.95
10	1432449.14	579847.04
11	1432481.92	579852.62
12	1432491.21	579852.79
13	1432482.01	579847.62
14	1432491.30	579847.79
15	1432459.97	579833.01
16	1432466.57	579831.38
17	1432485.63	579888.64
18	1432504.68	579834.18
19	1432506.88	579822.38
20	1432469.12	579815.83
21	1432455.26	579813.89
22	1432398.39	579810.03
23	1432396.99	579830.65
24	1432453.86	579834.51
25	1432401.76	579815.77
26	1432400.70	579831.41
27	1432447.09	579834.55
28	1432448.15	579818.92

No.	Issue	Drawn	Approved	Date
3	ADDENDUM #2	N.S.	P.K.	12/2/2019
2	ADDENDUM #1	N.S.	P.K.	11/26/2019
1	ISSUE FOR BID	N.S.	P.K.	11/5/2019



Bar is one inch on original size sheet
0 1"

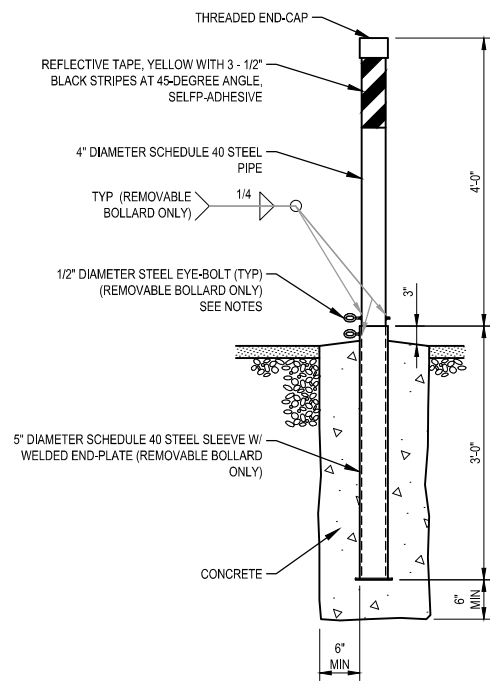
Reuse of Documents
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.
© 2019 GHD



GHD
GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com

Drawn	N. STEVENS	Designer	N. STEVENS
Drafting Check	P. KASPARI	Design Check	P. KASPARI
Project Manager	P. KASPARI	Date	12/2/2019
This document shall not be used for construction unless signed and sealed for construction.		Scale	AS SHOWN

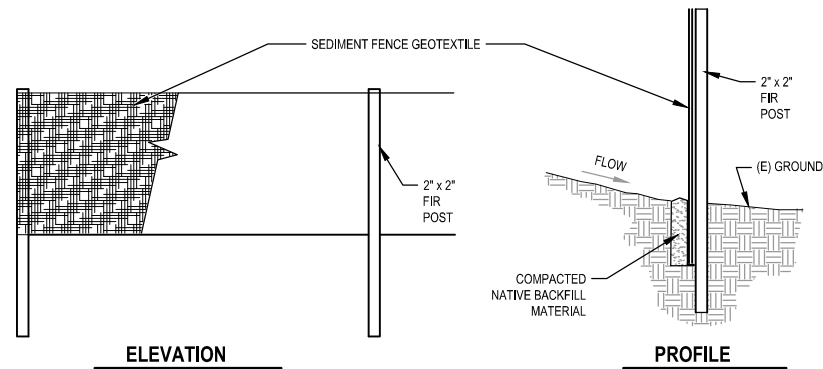
Client	HUMBOLDT BAY MUNICIPAL WATER DISTRICT	
Project	12 kV SWITCHGEAR RELOCATION	
Title	CIVIL SITE PLAN	
Project No.	11186675	
Original Size	ANSI D	
Sheet No.	C-101	
Sheet	3 of 24	



NOTES:

1. DRILL 5/8" DIAMETER HOLE THROUGH 4" DIAMETER PIPE AND INSERT EYE-BOLT. WELD EYE-BOLT IN PLACE ON BOTH SIDES OF PIPE (REMOVABLE TRAIL-CENTER BOLLARD ONLY).
2. CUT SECOND EYE-BOLT AND WELD EYE TO 5" DIAMETER SLEEVE (REMOVABLE TRAIL-CENTER BOLLARD ONLY).
3. EYE-BOLTS SHALL BE NO MORE THAN 1/2" APART TO PERMIT PAD LOCKING (REMOVABLE TRAIL-CENTER BOLLARD ONLY).
4. HOT DIP GALVANIZE ALL STEEL AFTER FABRICATION.

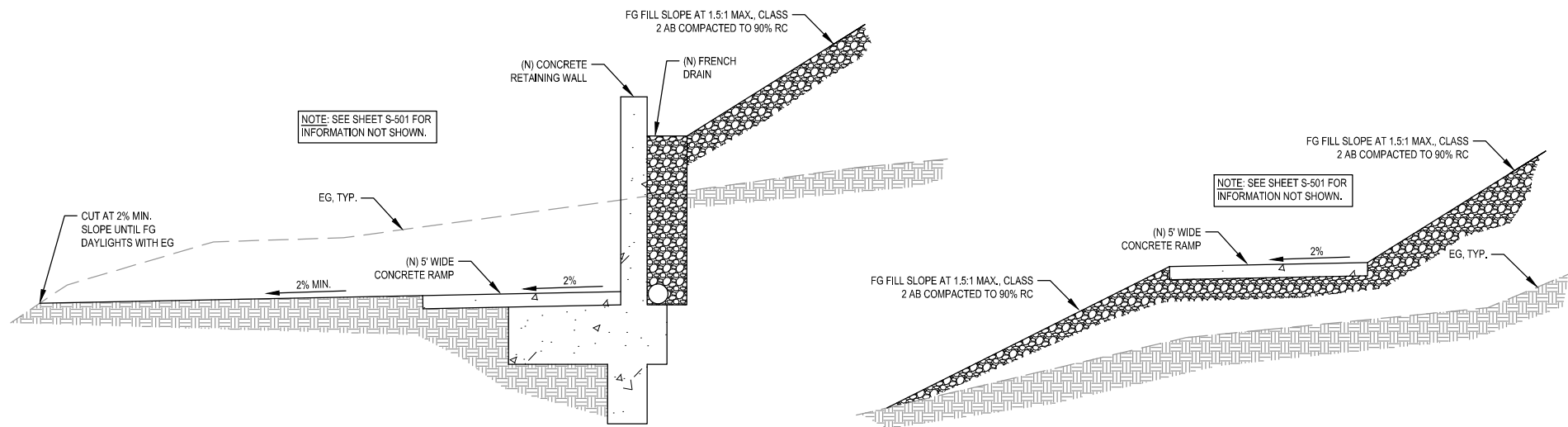
1 BOLLARD DETAIL
SCALE: NTS



NOTES:

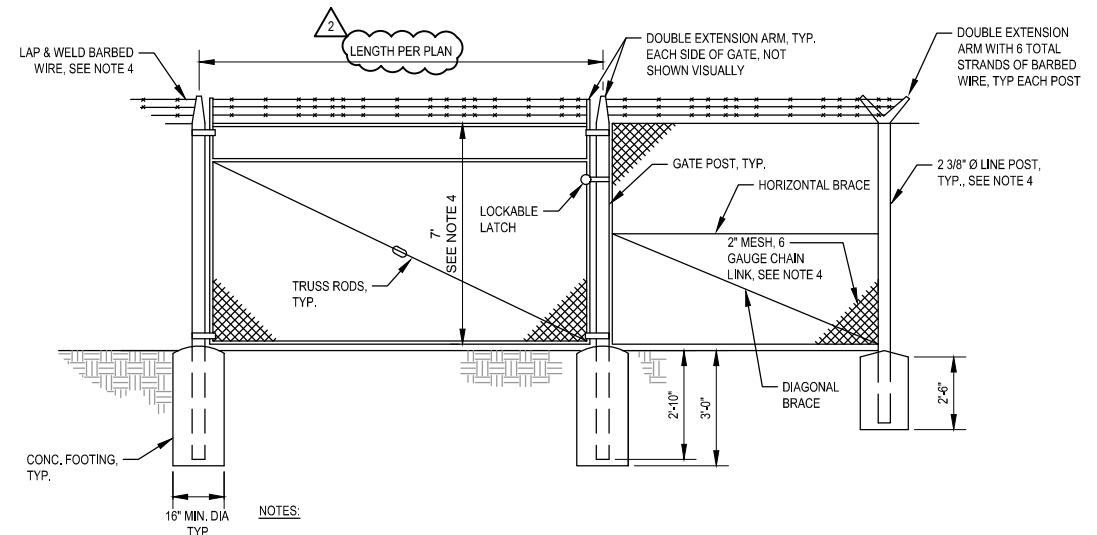
1. FILTER FABRIC SHALL BE INSTALLED IN A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHERE JOINTS ARE NECESSARY SPLICE FABRIC TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6" OVERLAP. SECURELY FASTEN BOTH ENDS TO THE POST.
1. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12".
2. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND 6" DEEP ALONG THE LINE OF POSTS UPHILL FROM THE BARRIER. TRENCH SHALL FOLLOW THE CONTOUR.
3. TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL.
4. INSPECT AND REPAIR AFTER EACH RAINFALL. INSPECT DAILY DURING PROLONGED RAINFALL.
5. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT ABOVE GROUND PORTION OF THE FENCE.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND SEEDED.
7. POSTS TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH POST ONE FULL TURN, SECURE FABRIC WITH (4) STAPLES FOR EACH POST.
8. A MINIMUM OF (4) 1-INCH WIDE STAPLES SHALL BE INSTALLED PER POST.
9. FOR EACH END POST, FENCE FABRIC SHALL BE FOLDED AROUND TWO POSTS ONE FULL TURN AND SECURED WITH (4) STAPLES.
10. SILT FENCE SHALL BE REMOVED UPON PROJECT COMPLETION.

2 SILT FENCE DETAIL
SCALE: NTS



A RAMP CUT SECTION
SCALE: NTS

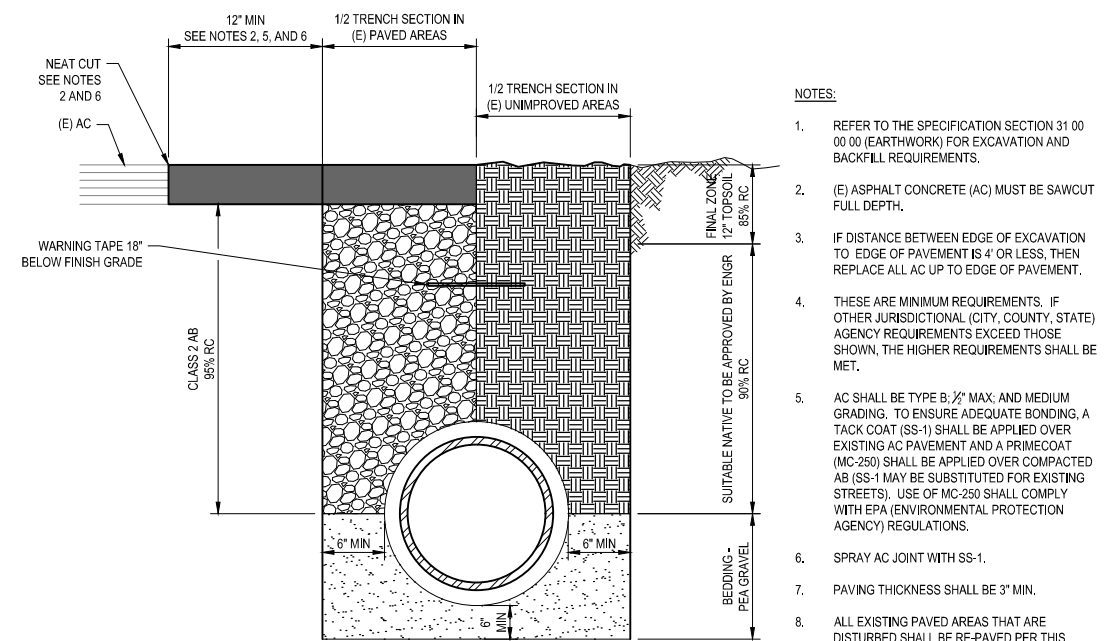
B RAMP FILL SECTION
SCALE: NTS



NOTES:

1. LATCHES SHALL BE ARRANGED FOR LOCKING. ALL GATES SHALL HAVE KEEPERS CONSISTING OF A MECHANICAL DEVICE FOR SECURING THE FREE END OF THE GATE WHEN IT IS IN FULL OPEN POSITION.
2. BRACE POSTS ARE TO BE WELDED TO GATE POST AND LINE POSTS, TYP. BOTH SIDES OF GATE
3. ALL FENCING AND GATE MATERIALS SHALL BE GALVANIZED STEEL.
4. THE INFORMATION PRESENTED IN THIS DETAIL SHALL BE USED FOR THE CONTRACTOR'S BASE BID FOR THE SECURITY FENCE AND GATES, FOR THE ADDITIVE BID ITEM, RAZOR WIRE SHALL BE INSTALLED AT THE TOP OF THE FENCING IN ALL LOCATIONS IN ADDITION TO BARBED WIRE, MESH SHALL BE 3/8", POSTS SHALL BE 4"Ø, AND THE FENCE SHALL BE 8' TALL INSTEAD OF 7'.

3 SECURITY FENCE AND GATE DETAIL
SCALE: NTS



NOTES:

1. REFER TO THE SPECIFICATION SECTION 31 00 00 00 (EARTHWORK) FOR EXCAVATION AND BACKFILL REQUIREMENTS.
2. (E) ASPHALT CONCRETE (AC) MUST BE SAWCUT FULL DEPTH.
3. IF DISTANCE BETWEEN EDGE OF EXCAVATION TO EDGE OF PAVEMENT IS 4' OR LESS, THEN REPLACE ALL AC UP TO EDGE OF PAVEMENT.
4. THESE ARE MINIMUM REQUIREMENTS. IF OTHER JURISDICTIONAL (CITY, COUNTY, STATE) AGENCY REQUIREMENTS EXCEED THOSE SHOWN, THE HIGHER REQUIREMENTS SHALL BE MET.
5. AC SHALL BE TYPE B, 2" MAX. AND MEDIUM GRADING. TO ENSURE ADEQUATE BONDING, A TACK COAT (SS-1) SHALL BE APPLIED OVER EXISTING AC PAVEMENT AND A PRIME COAT (MC-255) SHALL BE APPLIED OVER COMPACTED AB (SS-1) MAY BE SUBSTITUTED FOR EXISTING STREETS). USE OF MC-255 SHALL COMPLY WITH EPA (ENVIRONMENTAL PROTECTION AGENCY) REGULATIONS.
6. SPRAY AC JOINT WITH SS-1.
7. PAVING THICKNESS SHALL BE 3" MIN.
8. ALL EXISTING PAVED AREAS THAT ARE DISTURBED SHALL BE RE-PAVED PER THIS DETAIL.

4 TYPICAL TRENCH SECTIONS IN IMPROVED AND UNIMPROVED AREAS
SCALE: NTS

2	ADDENDUM #2	N.S.	P.K.	12/2/2019
1	ISSUE FOR BID	N.S.	P.K.	11/5/2019
No.	Issue	Drawn	Approved	Date



Bar is one inch on original size sheet
0 1"

Reuse of Documents
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.
© 2019 GHD



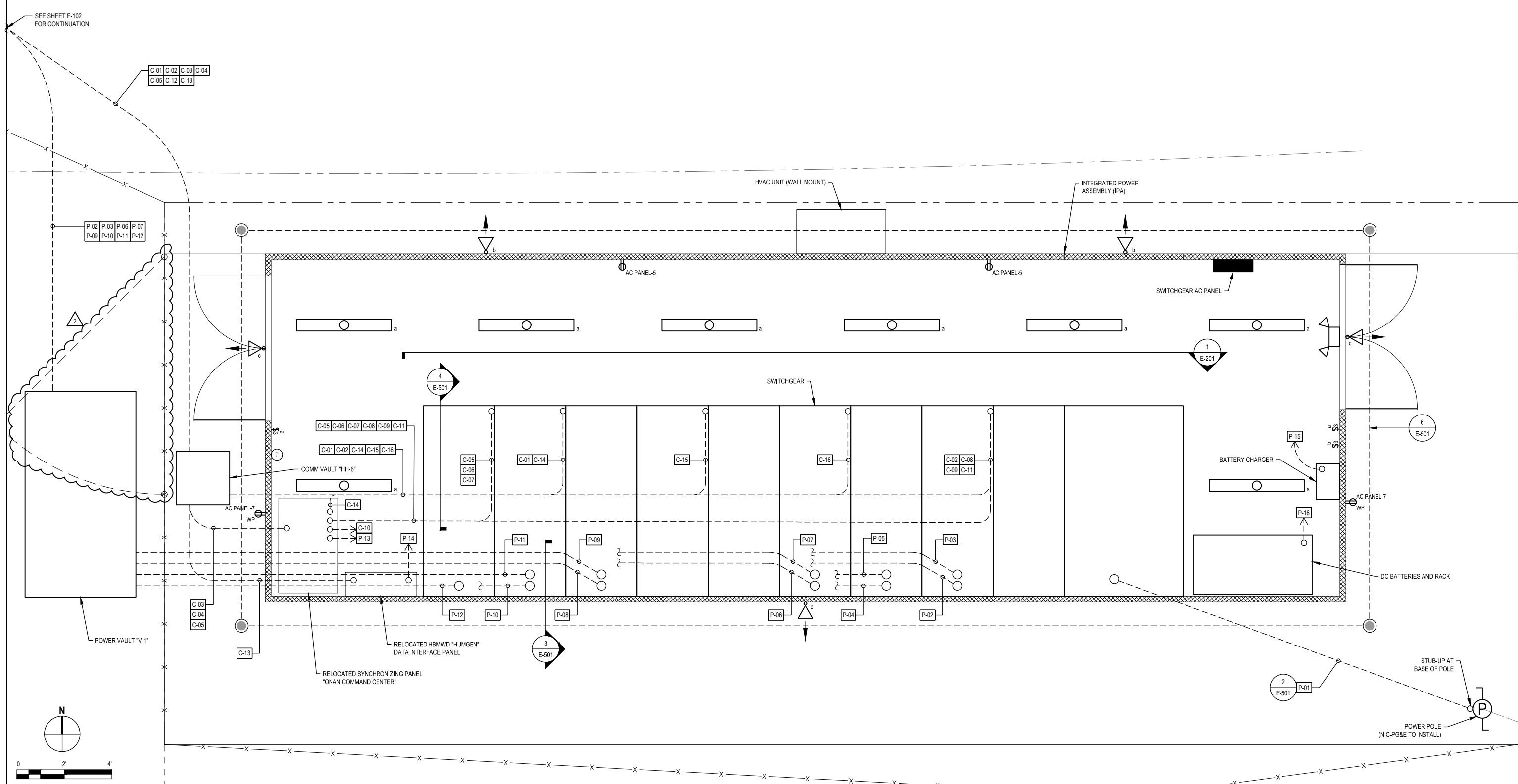
GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com

Drawn	N. STEVENS	Designer	N. STEVENS
Drafting Check	P. KASPARI	Design Check	P. KASPARI
Project Manager	P. KASPARI	Date	12/2/2019
This document shall not be used for construction unless signed and sealed for construction.		Scale	AS SHOWN

Client	HUMBOLDT BAY MUNICIPAL WATER DISTRICT		
Project	12 KV SWITCHGEAR RELOCATION		
Title	CIVIL DETAILS		
Project No.	11186675		
Original Size	ANSI D		
Sheet No.	C-501		
Sheet	4 of 24		

SHEET GENERAL NOTES

- SEE CUMMINS REFERENCE DRAWINGS FOR CONNECTIONS BETWEEN SWITCHGEAR, ONAN COMMAND CENTER, AND (E) GENERATOR ON SHEETS E-701 THRU E-706.
- SWITCHGEAR INSTALLATION SHALL MEET THE REQUIREMENTS PER PG&E GREENBOOK.



2	ADDENDUM #2	N.S.	P.K.	12/2/2019
1	ISSUE FOR BID	S.D.	P.K.	11/5/2019
No.	Issue	Drawn	Approved	Date



Bar is one inch on original size sheet
0 1"

Reuse of Documents
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.
© 2019 GHD



GHD
GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com

Drawn	S. DAVIS	Designer	J. KING
Drafting Check	N. STEVENS	Design Check	R. GUGGIANA
Project Manager	P. KASPARI	Date	12/2/2019
This document shall not be used for construction unless signed and sealed for construction.		Scale	1" = 2'-0"

Client	HUMBOLDT BAY MUNICIPAL WATER DISTRICT		
Project	12 kV SWITCHGEAR RELOCATION		
Title	ENLARGED SWITCHGEAR PLAN		
Project No.	11186675		
Original Size	ANSI D	Sheet No.	E-401
		Sheet	13 of 24