DRULL DISPLACEMENT PILE NOTES Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc Druc	+	12 11	10 9 8
Constrained and a second		DRILL DISPLACEMENT PILE NOTES	
 TRE DATEMENT TRE DATEMENT TRE DATEMENT	A	 <u>SCOPE</u> 1) THESE DRAWINGS REPRESENT THE DESIGN-BUILD CONSTRUCTION OF DISPLACEMENT PILES (DDP). FARRELL DESIGN-BUILD INC. (FARRELL) IS GEOCONTRACTOR FOR THE DDP WORK. THE GEOCONTRACTOR'S SCOI WORK IS THE DDP ONLY, AND EXCLUDES DESIGN AND/OR CONSTRUCTION FOUNDATIONS, SHORING, TEMPORARY CONSTRUCTION PAD GRADING FINAL PAD GRADING. 	DRILL S THE PE OF , AND1) WORKMANSHIP: ALL COMPONENTS OF CONCRETE CONSTRUCTION, INCLUDING PROPORTIONING, REINFORCING, PLACEMENT, PRODUCTION, FINISHING, CURING, AND FORMWORK SHALL COMPLY WITH ACI 301-05 AND THE PROJECT SPECIFICATIONS. STRICTER REQUIREMENTS APPLY.2) CEMENT: TYPE II PER ASTM C-150
0 FE DEP & & COMPACT BEAMON PARENCE Compact And the Analysis of the	+	DDP OVERVIEW	3) CONCRETE SHALL BE READY-MIX PER ASTM C-94.
 C DOUBLE MENDELIST & SUBJECT TO SUBJECT BENCHMARK STRUCTURES SUBJECT SUBJEC	В	 THE DDP IS A COMBINED GROUND IMPROVEMENT AND STRUCTURAL METHOD USED TO SUPPORT FOUNDATIONS. THE DDP WORK CONSIST CONSTRUCTING PILES FOR FOUNDATION SUPPORT USING A REINFC STRUCTURAL DDP IN ACCORDANCE WITH THESE PLANS, THE SPECIFIC/ AND GENERAL CONFORMANCE WITH THE LINES, GRADES, AND DIMENT SHOWN ON THE PLANS OR ESTABLISHED BY THE ENGINEERS. 	 4) REINFORCING STEEL: A615 OR A706, GRADE 60. PILE IS OF IS OF COVER: UNLESS NOTED OTHERWISE ON DETAILS, CLEAR COVER FOR REINFORCING SHALL BE AS FOLLOWS: ATION, A) 3 in FOR CONCRETE CAST AGAINST EARTH FORMS B) 2 in FOR CONCRETE EXPOSED TO SOIL OR WEATHER OR HYDROSTATIC HEAD.
• ALLOF CLAMPS SUPER CONTROLOGY AND ACCORDENCE HILL IS OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • PARKARDING • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF CONDUCTOR EXPORTED IN ACCORDENCE HILL IS OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF CONDUCTOR EXPORTED IN ACCORDENCE HILL IS OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF CLAMPS SUPER CONTROL AND ACCORDENCE HILL IS OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF 1 • CALL OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • THE DP MEND OF THE DATA OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1 • CALL OF 1		2) GROUND IMPROVEMENT IS ACHIEVED BY DISPLACING SOIL WITH A DISPLACEMENT TOOL AND BACKFILLING THE CAVITY <u>UNDER PRESSURE</u> GROUT. THE PILE IS CREATED BY INSERTING THE REBAR CAGE INTO GROUT AS SHOWN ON THESE PLANS.	DRILL6)CURING: NOT REQUIRED.WITH.O THE7)CONSTRUCTION JOINTS (COLD JOINTS):NO CONSTRUCTION JOINTSPERMITTED EXCEPT AS EXPLICITLY SHOWN.
Image: Note of the control o	T	3) ALL DDP ELEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THI PLANS AND SPECIFICATION 31 63 16.	E DDP 8) REINF STEEL IS WET-STABBED INTO SEMI-FLUID CONCRETE GROUT PER CBC 1810.3.9.3 EXCEPTION 2.
1 1		DESIGN NOTES	GENERAL CONTRACTOR CONSTRUCTION NOTES
2 AL WORK SHELL CONFORM TO DEPARCE SHEEPS AND SH	С	1) THE DDP METHOD OF FOUNDATION SUPPORT IS PROPRIETARY. FARRER RESPONSIBLE FOR THE DESIGN OF THE DDP AND OBTAINING PERFORMANCE CRITERIA SPECIFIED HEREIN. FARRELL'S ENGINEERING DESIGN WORK ARE EXPRESSLY PROVIDED AND CONDITIONED ON FAI INSTALLING THE DESIGNED WORK SHOWN ON THESE PLANS. UNDE CIRCUMSTANCE SHALL THIS PLAN BE PROVIDED TO ANY OTHER CONTRA TO PERFORM THE DESIGNED WORK SHOWN HEREIN.	 ELL IS THE 1) COMPLETED DDP WORK SHALL BE PROTECTED FROM DAMAGE, INCLUDING, BUT NOT LIMITED TO, ADJACENT EQUIPMENT TRACKING AND DOWEL DAMAGE. AND RRELL 2) SEE SHEET <u>DDP-3.1</u> FOR DDP TO PILE CAP CONNECTION. IR NO IR NO QUALITY CONTROL
0 PROMIL SERVICE CONTRACTOR STUDIES 0 PROMIL SERVICE CONTRACTOR STUDIES 0 PROMILT SERVICES	+	2) ALL WORK SHALL CONFORM TO DFI AND FHWA STANDARDS.	1) THE GEOCONTRACTOR SHALL HAVE A QUALITY CONTROL REPRESENTATIVE
Image: state of the s		3) FARRELL SHALL BE NOTIFIED IMMEDIATELY IF THE SUBSURFACE SO STRUCTURAL LOADS CHANGE OR VARY FROM THOSE USED FOR DESIGN.	IL OR (QCR) TO RECORD INSTALLATION DATA. THE QCR SHALL IMMEDIATELY REPORT ANY UNUSUAL CONDITIONS ENCOUNTERED DURING INSTALLATION TO THE GEOCONTRACTOR. THE GEOCONTRACTOR WILL COMMUNICATE ANY UNUSUAL CONDITIONS TO THE GENERAL CONTRACTOR.
PROJECT NUMBER 01/301 INDUPLOT NUMBER 01/301 INDUPLOT NUMBER 50 CATEWAY ROLD 5+ INDUPLOT NUMBER 50 CATEWAY ROLD 5+ INDUPLOT COMMAN 50 CATEWAY ROLD 5+ INDUPLOT COMPANY TO REPORT OF CALMANE OF REPORT ON SET TO VERIFY THAT THE TEST REPORT OF CALMANE OF REPOR		PROJECT SPECIFICS	QUALITY ASSURANCE AND TESTING
21 THUESEND CONTACT AND CONTROL OF A CON		PROJECT NUMBER C17-501	1) THE OWNER OR GENERAL CONTRACTOR IS RESPONSIBLE FOR RETAINING AN INDEPENDENT COMPANY TO PROVIDE QUALITY ASSURANCE SERVICES AND MATERIALS TESTING. THE TESTING AGENCY MAY BE THE PROJECT GEOTECHNICAL ENGINEER OF RECORD.
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Image: Transmission Production Processing Parameters Second Parameters ALLOWABLE LEARING CAPACITY 310 Mps (ASD) PER PLE Second Parameters ALLOWABLE UPUET CAPACITY 65 Mins (ASD) PER PLE Second Parameters DIAMETER HOT DAMETER 10 CAPACITY 65 Mins (ASD) PER PLE Second Parameters DIAMETER HOT DAMETER 10 CAPACITY 65 Mins (ASD) PER PLE Second Parameters DIAMETER HOT DAMETER 10 CAPACITY Second Parameters Second Parameters Convert FACTOR TARGET LENGT Second Parameters GROUT FACTOR TARGET 1005 Second Parameters GROUT FACTOR TARGET 1005 Second Parameters IDAD TESTING IDAD TESTING IDAD TESTING IDAD TESTING IDAD TESTING IDAD TESTING PER DETAIL SHEET IDAD TESTING IDAD TESTING PROVIDE VARIAUNSHER PROVIDED VARIAUNSHER PROVISION SOT THAR PEOAL RESPECIAL INSPECTION AGENT ACTOR PEOAL <th>E</th> <td>PROJECT COORDINATES LAT/LON: 37.6570°N, 122.3996°W</td> <td>PRODUCTION INSTALLATION PRACTICES ARE SIMILAR TO THOSE USED DURING THE INSTALLATION OF THE TEST ELEMENTS. D) PERFORM ALL TESTING REQUIRED IN THE SPECIFICATIONS. E) OBSERVE AND PROVIDE A WRITTEN REPORT OF ALL FOOTING</td>	E	PROJECT COORDINATES LAT/LON: 37.6570°N, 122.3996°W	PRODUCTION INSTALLATION PRACTICES ARE SIMILAR TO THOSE USED DURING THE INSTALLATION OF THE TEST ELEMENTS. D) PERFORM ALL TESTING REQUIRED IN THE SPECIFICATIONS. E) OBSERVE AND PROVIDE A WRITTEN REPORT OF ALL FOOTING
ALLOWABLE BEARING CAPACITY 310 kps (ASD) PER PILE ALLOWABLE UPLIFT CAPACITY 65 kps (ASD) PER PILE 10 kps (ASD) PER PILE DIAMPTER EFFECTIVE DIAMETER: 17 in - 18 in NEAT DUAMETER: 16 in 13 SPECIAL INSPECTIONS SHALL BE MET FOR SPECIAL INSPECTION IS FULL TIME. DIAMPTER SPE GROUND INHROVEMENT SCHEDULE ON SHEET DI2P-2.1 SPECIAL INSPECTIONS CODE (CBC), CHAPTER 17. ALL INSPECTION IS FULL TIME. GROUT FACTOR TARGET SHAFT LENGTH SPE GROUND INHROVEMENT SCHEDULE ON SHEET DI2P-2.1 SPECIAL INSPECTIONS SHALL BE MET FOR SPECIAL INSPECTION REPORTING SHALL ON THE OFFICIAL INSPECTION REPORTING SHALL COMPONING COMPTENDIATE OF THE DI2P-2.1 GROUT FACTOR TARGET 110% MINMUM. 100% SPECIAL INSPECTION SHALL COMPANY STATE LINEST COMPONENT OF COMPTENDIATE OF THE DI2P-2.1 GROUT PRESSURE TARGET 110% MINMUM. 100% SPECIAL INSPECTION SHALL CONTROLOTION AD LIDIANG OFFICIAL NEWSTOONS HEAD DIAPS OF THE PROFEND TO THE BUILTING OF THE ENDINER, AND OTHER DESIGNATION TO THE DISCREPANCIES SHALL BE MEDIATED PERSONS ALL DISCREPANCIES SHALL SHAMT & FMAILS NEWSTOON SHALL CONTRACTOR SHALL CONTRACTOR SHALL DATES THE DISCREPTION AD THE DISCREPANCE SHALL BE MEDIATED PERSONS AD THE APPLICIAL DALLY REPORTING SHALL CONTRACTOR NET HEAD DISCREPTION AD THE DISCREPANCIES SHALL SHAMT & FMAILS AND THE ENDINER. AND AND SHORE REPORT SHALL DATE PERSONS AND THE DISCREPANCIES SHALL SHAMT & FMAIL SHAMT & FMAIL SHALL DATE PERSONS AND THE DISCREPTION AD ALL DATES PERCIAL NET TO THE DISCREPANCIES SHALL SHAMT & FMAIL SHAMT & FMAIL SHAMT & FMAIL SHALL DATE PERSONS AND THE DISCREPANCES SHALL SHAMT & FMAILSHAMT & F		DDP DESIGN PARAMETERS	E) OBSERVE AND PROVIDE A WRITTEN REPORT OF ALL FOOTING EXCAVATION AND FOOTING BOTTOM PREPARATION.
Image: The second is the second sec	0	ALLOWABLE BEARING CAPACITY 310 kips (ASD) PER PILE	SPECIAL INSPECTIONS
Town Diameter EFFECTIVE DIAMETER: 17 in - 18 in NEAT DIAMETER: 16 in PHECTIME TARGET SHAFT LENGTH SEE GROUND IMPROVEMENT SCHEDULE ON SHEET <u>DOP 2.1</u> THE FOLLOWING REQUIREMENTS SHALL BE MET FOR SPECIAL INSPECTION: AND UNDER COLL. GROUT FACTOR TARGET SHAFT LENGTH SEE GROUND IMPROVEMENT SCHEDULE ON SHEET <u>DOP 2.1</u> BEET <u>DOP 2.1</u> GROUT FACTOR TARGET SHAFT LENGTH SEE GROUND MINIMUM: 100% BIS SECOND SHALL DE MADDING OFFICIAL INSPECTIONS REQUIRED. BIS SECOND SHALL DE MADDING OFFICIAL INSPECTIONS REQUIRED. GROUT PRESSURE TARGET: STORE THE SECOND SHALL DE MADDING OFFICIAL INSPECTIONS SHALL DE MADDING OFFICIAL INSPECTION SHALL CONTING SHALL ONCORRECTED. TO THE SHALL CONTING AND THE DEVENTION ALL DISCREPANCIES SHALL CONTING AND THE DEVENTION ALL DISCREPANCIES SHALL CONTING AND THE DEVENTION ALL DISCREPANCIES SHALL CONTINUES, AND THE DISCREPANCIES IN THE MEDIAL CONTINUES, AND THE DISCREPANCIES SECOND ALL DISCREPANCIES SECOND SECOND ADDING THE DORE THEORY ON THE DEVENT ON SECOND SECOND ADDING THE DORE THEORY INTERVIEW OF THE CALL PROVING SECOND MADDING OFFICIAL LINE REPORTS DURING COAD TEST PER DETAIL SHEET DDP-3.1 DISLING DISLING REPUSAL CRITERIA LESS THAN 2(th OF VERTICAL PROGRESSION IN 30 SECOND REPUSAL CRITERIA LESS THAN 2(th OF VERTICAL PROGRESSION IN 30 SECOND SECOND		ALLOWABLE UPLIFT CAPACITY 65 kips (ASD) PER PILE	1) SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE (CBC) CHAPTER 17. ALL INSPECTION IS
0 1 ARGET SHAFT LENGTH SEE GROUND IMPROVEMENT SCHEDULE ON SHEET DDP-2.1 1 1 ARGET SHAFT LENGTH SEE GROUND IMPROVEMENT SCHEDULE ON SHEET DDP-2.1 1 0 CONCRETE / TARGET 110% MINIMUM: 100% CONCRETE / STAFT LENGTH 1 0 CONCRETE / GROUT PRESSURE 3 bars @ BOTTOM MINIMUM 1 0 CONCRETE / GROUT PRESSURE 3 bars @ DOTTOM MINIMUM 1 LOAD TESTING IDBP-3.1 CONCRETE / STAFT LENGTH 1 0 DE-3.1 DE-3.1 1 0 DE-3.1 DE-3.1 1 0 DE-10.1 NSPECTION SALL PE APPROVED BY THE LURISDICTION THE STAFT DE DESIGNATED PERSONS ALL DISCREPANCES SHALL BE IMMEDIATELY BROUGHT TO THE BUILING OFFICIAL INSPECTION SHALL DE CONTACT DOCUMENTS. 1 IDBP-3.1 IDBP-3.1 DE-3.1 1 DIRILING DIRILING 1 DIRILING </th <th>nes) N</th> <th>DIAMETER EFFECTIVE DIAMETER: 17 in - 18 in</th> <th></th>	nes) N	DIAMETER EFFECTIVE DIAMETER: 17 in - 18 in	
GROUT FACTOR TARGET: 110% MINIMUM: 100% TARGET: 110% MINIMUM: 100% GROUT PRESSURE 3 bars @ BOTTOM MINIMUM GROUT PRESSURE 3 bars @ BOTTOM MINIMUM LOAD TESTING LOAD TESTING LOAD TESTING LOAD TESTING Image: Comparison of the contractor and the contractor and the contractor of the contractor of the c	0 × 42.00 Inch	TARGET SHAFT LENGTH SEE GROUND IMPROVEMENT SCHEDULE ON SHEET DDP-2.1	A) SPECIAL INSPECTIONS AND INSPECTION REPORTING SHALL CONFORM TO CHAPTER 17 OF THE CALIFORNIA BUILDING CODE. B) SPECIAL INSPECTIONS ARE IN ADDITION TO BUILDING OFFICIAL
Concrete / GROUT PRESSIVE STRENGTH (fc) CONCRETE / GROUT PARAMETERS COMPRESSIVE STRENGTH (fc) TARGET: 4,500 psi @ 28 DAYS MAX W/CM 0.45	1 (30.0	GROUT FACTOR TARGET: 110% MINIMUM: 100%	C) THE SPECIAL INSPECTOR SHALL BE APPROVED BY THE JURISDICTION.
Image: Concrete / Group Parameters Image: Concret	CH full bleed E	GROUT PRESSURE 3 bars @ BOTTOM MINIMUM	BUILDING OFFICIAL, THE ENGINEER, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF UNCORRECTED TO THE PROPER DESIGN AUTHORITY AND THE BUILDING
0100000000000000000000000000000000000	tb AR	LOAD TESTING	OFFICIAL. DAILY REPORTS SHALL CONTAIN SPECIFIC INFORMATION ABOUT THE DAY'S CONSTRUCTION ACTIVITIES, AND THE
Image: Condition of the contraction of	Farrell_2016.c	(1) BEARING LOAD TEST PER DETAIL SHEET DDP-3.1 LOAD TEST(S)	 CORRESPONDING CONTRACT DOCUMENTS. E) THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL, SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICATIONS AND SPECIFICATIONS AND THE APPLICATIONS AND SPECIFICATIONS AND SPECIFICATIONS
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THE GEOTECHNICAL ENGINEER SHALL MAKE OBSERVATIONS OF SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION OF THE DDPs AND REPORT ANY CHANGES IN THE EXPECTED SOIL CONDITIONS TO THE GEOCONTRACTOR. 01 TARGET: 4,500 psi @ 28 DAYS MINIMUM: 4,500 psi @ 28 DAYS MINIMUM: 4,500 psi @ 56 DAYS MAX W/CM 0.45	17Aug26	DRILLING	INSPECTION IS SUBJECT TO REMOVAL.
Max W/CM Max W/CM	AITTAL.DWG 20	REFUSAL CRITERIA LESS THAN ½ ft OF VERTICAL PROGRESSION IN SECONDS	3) THE GEOTECHNICAL ENGINEER SHALL MAKE OBSERVATIONS OF SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION OF THE DDPs AND REPORT ANY CHANGES IN THE EXPECTED SOIL CONDITIONS TO THE GEOCONTRACTOR.
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Es of them intelling x intelling x intelling x intelling x intelling x intelling	C17-501		
	\JOBS\(
	FARRELL		

TRUCTION NOTES

- ALLATION OF DDP ELEMENTS TO VERIFY THAT THE LATION PRACTICES ARE SIMILAR TO THOSE USED ATION OF THE TEST ELEMENTS.
- NG REQUIRED IN THE SPECIFICATIONS. OVIDE A WRITTEN REPORT OF ALL FOOTING OTING BOTTOM PREPARATION.

INSPECTOR REQUIREMENTS

7

1) THE SPECIAL INSPECTOR AND THE GEOCONTRACTOR'S QCR SHALL RECORD INFORMATION REGARDING THE INSTALLATION OF EACH PILE: A) PILE IDENTIFICATION NUMBER AND DATE OF INSTALLATION

6

- B) DRILL TOOL DIAMETER
- C) TOP-OF-PILE ELEVATION
- D) DRILL DEPTH E) GROUT SLUMP
- F) VOLUME OF GROUT PLACED IN EACH 5 FOOT VERTICAL SEGMENT G) DRILLING ADVANCEMENT AND WITHDRAWAL RATES
- H) GROUT PUMP
- I) PUMP PRESSURES
- J) READY MIX TICKET ID ASSOCIATED WITH EACH PILE K) REINFORCING CAGE TYPE
- L) UNUSUAL OCCURRENCES ENCOUNTERED DURING PILE INSTALLATION
- M) DEVIATION FROM DESIGN LOCATION (IF ANY) N) PRE-DRILL DEPTH (IF ANY)
- O) ADD WATER (IF ANY)
- P) AMBIENT TEMPERATURE

LIMITATIONS

1) FARRELL BASED THE DESIGN AND LAYOUT ON INFORMATION PROVIDED BY THE GENERAL CONTRACTOR, THE SEOR, AND THE GEOR AS NOTED IN THE REFERENCES TABLE. IF THE EXISTING SITE CONSTRAINTS OR SOIL CONDITIONS ARE NOT CONSISTENT WITH THIS INFORMATION, ENGINEERING AND CONSTRUCTION CHANGES MAY BE REQUIRED. IF ANY SITE OR SOIL CONDITIONS HAVE CHANGED FROM WHAT IS PRESENTED IN THIS DOCUMENT OR THE REFERENCE DOCUMENTS, FARRELL MUST BE ASKED TO REVIEW THE CHANGED CONDITIONS AND MAKE THE APPROPRIATE MODIFICATIONS WHERE NECESSARY.

ABBREVIATIONS

APPRX	APPROXIMATELY
ASD	ALLOWABLE STRESS DESIGN
BLDG	BUILDING
BOF	BOTTOM OF FOOTING
BIM	
	CIEAR
DFI	DEEP FOUNDATION INSTITUTE
DIA	DIAMETER
EW	EACH WAY
FDN	FOUNDATION
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FTG	FOOTING
GEOR	GEOTECHNICAL ENGINEER OF RECORD
LONGI	
REINE	BEINEOBCING
REQD	REQUIRED
SEOR	STRUCTURAL ENGINEER OF RECORD
SW	SHEAR WALL
STRUCT	STRUCTURAL
TOF	TOP OF FOOTING
TYP	TYPICAL
W/	WITH

	SHEET INDEX						
REVISED	ORDER	SHEET	DESCRIPTION				
2017AUG29	1	DDP-1.0	DRILL DISPLACEMENT PILE NOTES				
2017AUG29	2	DDP-2.1	DRILL DISPLACEMENT PILE PLAN				
2017AUG29	3	DDP-3.1	DRILL DISPLACEMENT PILE DETAILS				
2017AUG29	4	DDP-3.2	DRILL DISPLACEMENT PILE DETAILS				

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2 KEY MAP NONE

4

NORTH

	REFERENCE	S		
PRIMARY DESIGN DOCUMENTS	DESCRIPTION	DOCUMENT BY	DATE RECEIVED	DOCUMENT DATE
FARRELL DESIGN-BUILD	DESIGN-BUILD SUBMITTAL: 550 GATEWAY HOTAL	FARRELL DESIGN-BUILD	-	2017AUG29
	CAD DRAWING: S-1.0 (DWG)		2017AUG14	-
STRUCTURAL	STRUCTURAL LOADING DOCUMENT: H2SSF-CONCWALL-SUMMARY-FERRELLINC -170719 (XLS)	HCP ENGINEERING	2017JUL19	_
GEOTECHNICAL	GEOTECHNICAL INVESTIGATION 2016-02-12 FINAL GEOTECH PROJECT NO. P16-1222	GEOENGINEERING CONSULTANTS	-	2016FEB12
ARRELL DESIGN-BUILD INC. IS RESP ARRELL DESIGN-BUILD INC. THE C ONTRACT DOCUMENTS, AND AGEN /ORK ON THIS DOCUMENT. UNDER 2017 FARRELL DESIGN-BUILD COMF	ONSIBLE FOR THE DESIGN OF THE DRILL DISPLACEMENT COLUN WNER AND CONTRACTOR ARE GRANTED A LIMITED USE LICE CY SUBMITTALS. FARRELL'S DESIGN AND ENGINEERING WORK A NO CIRCUMSTANCE SHALL THIS DOCUMENT BE PROVIDED TO PANIES INC. ALL RIGHTS RESERVED.	IN [™] (DDP) SYSTEM. THIS DOCUMENT IS T ENSE TO THIS DOCUMENT FOR PURPO RE EXPRESSLY PROVIDED AND CONDITIC ANY OTHER CONTRACTOR TO PERFORM	THE PRIVATE AND PROF SES OF STRUCTURAL ONED ON FARRELL INS M THE DESIGNED WOF	PRIETARY FOUNDA TALLING T RK CONT,







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SYMBOL	TYPE	TYPE	SHAFT LENGTH	QTY
	TYPE A	BEARING DDP	60 ft	63
(\bigcirc)	TYPE B	BEARING AND UPLIFT DDP	60 ft	86
			TOTAL:	149

PLAN NOTES:

1) ALL GRID LINES & DIMENSIONS MUST BE VERIFIED WITH THE APPROVED ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DRAWINGS.

2) ALL FOUNDATION LOCATIONS LAYOUT SHALL BE IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S FOUNDATION DRAWINGS. ALL PILE LAYOUT SHALL BE IN ACCORDANCE WITH THE PILE DRAWINGS. ANY DISCREPANCIES DISCOVERED SHALL BE IMMEDIATELY REPORTED TO THE GEOCONTRACTOR.

3) PILE ELEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NOTES SHOWN ON DDP-1.0, DETAILS SHOWN ON DDP-3.1 AND DDP-3.2, AND THE DRILL DISPLACEMENT PILE DESIGN-BUILD SUBMITTAL.

4) PILE CONSTRUCTION REQUIRES A MINIMUM OF 5 ft LATERAL CLEARANCE FROM ANY OBSTRUCTION OR UTILITY.

B-# + BORING LOCATION AND NUMBER BY GEC, 2016

B-# - BORING LOCATION AND NUMBER BY KRAZAN AND ASSOCIATES

NOTE:

LOCATIONS ARE APPROXIMATE. SUBSURFACE EXPLORATION BY OTHERS. FOR MORE INFORMATION, REFER TO GEOTECHNICAL REPORT FOR THIS PROJECT.





9	8		7	6		5
DATION THICKNES	SES. HS.	8'-0" 4'-0" 2'-0' 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7		TOP OF PILE CAP BEND BAR UP TO 30° 6 in BEND RADIUS BOTTOM OF PILE CAP		e, CLR MIN
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				TOP OF PILE CAP		OW REINFOR
			_		N N	OT TO SCALE
				TOP OF PILE CAP VERIFY MIN EMBEDMENT OF HEADED BAR BOTTOM OF PILE CAP		
				TOP OF PILE CAP		OW GROUT
9	8		- 7	8 DDP REPAIR DETAILS 6		5





- 1) TOP SURFACE ROUGHENED TO $\frac{1}{4}$ in AMPLITUDE, BY OTHERS.
- 2) WATER BLAST TOP OF ACP PRIOR TO PLACING NEW PILE CAP CONCRETE, BY OTHERS.

3

3) REINFORCEMENT CAGE IS TIED PRIOR TO WET-SETTING.



D DDP TYPE B SECTION NOT TO SCALE

2

TIES					DDP T	YPE B PROPE	RTIES		
TRANSV REINF	MAIN LONG'T REBAR	CENTER BAR	ZONE	DDP OD	REBAR CAGE OD	CLEAR COVER	TRANSV REINF	MAIN LONG'T REBAR	CENTER B
			PILE CAP						
#3 @ 1.5 in	(6)#6		Δ				#3 @ 1.5 in	(6) #6	
#3 @ 8 in				16 in	10 in	3 in MIN	#3 @ 8 in	(0) // 0	
MAX		#9	В				MAX		



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B DDP ELEVATION - TYPE B NOT TO SCALE

3

NOT TO SCALE

1

