

BERKELEY GLOBAL CAMPUS AT RICHMOND BAY RFS SITE, CORPORATION YARD REMOVAL ACTION UNIVERSITY OF CALIFORNIA, BERKELEY



VICINITY MAP
NOT TO SCALE

INDEX OF DRAWINGS

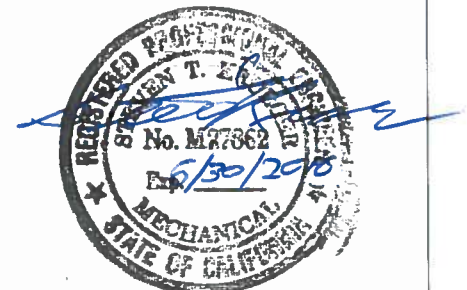
SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1 of 7	G-1	TITLE SHEET, VICINITY MAP AND LIST OF DRAWINGS
2 of 7	G-2	GENERAL ABBREVIATIONS, SYMBOLS, AND NOTES
3 of 7	C-1	SITE PREPARATION PLAN
4 of 7	C-2	CORPORATION YARD SITE PLAN
5 of 7	C-3	CORPORATION YARD EXCAVATION PLAN
6 of 7	C-4	CORPORATION BACKFILL AND RESTORATION PLAN
7 of 7	C-5	ALTERNATE 1 BUILDING 150 SITE PLAN AND EXCAVATION PLAN

CALIFORNIA STATE FIRE MARSHAL

- Approved
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- Make corrections noted (Resubmit for record)
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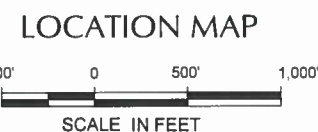
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTIONS. ONE SET OF APPROVED PLANS SHALL BE AVAILABLE ON THE PROJECT SITE AT THE TIME OF INSPECTION.

REVIEWED BY Jan Felt DATE July 10, 2015



FOR BID

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REVISIONS		DESIGNED	STK	PREPARED BY:	NA	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	VERIFY SCALE	SCALES:	TITLE SHEET, VICINITY MAP AND LIST OF DRAWINGS	PROJECT NO.
NO.	DATE	DESCRIPTION	DMF	TETRA TECH			BAR IS ONE (1) INCH ON ORIGINAL DRAWING.	HORIZONTAL SCALE:		1035225327
			DMF		NORTH		0 1"	NA		DRAWING NO. G-1
			JB				IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERTICAL SCALE:		SHEET NO. 1 OF 7
			DATE 05/13/2015					NA		

GENERAL NOTES

Notes:




























1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE NOTED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLANS.
3. ATTENTION IS DIRECTED TO THE "INSTRUCTIONS TO BIDDERS" WHERE BIDDERS ARE REQUIRED TO EXAMINE AND JUDGE, AS THEIR OWN RESPONSIBILITY, THE LOCATION, PHYSICAL CONDITIONS, AND SURROUNDINGS OF THE PROPOSED WORK.
4. THE LOCATIONS OF EXISTING UTILITIES AND SUBSTRUCTURES SHOWN HEREON HAVE BEEN TAKEN FROM RECORDS. THE ENGINEER DOES NOT WARRANT THE COMPLETENESS OR CORRECTNESS OF THE LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES, WHETHER SHOWN HEREON OR NOT, BEFORE COMMENCING WORK, AND PROTECT THEM FROM DAMAGE. SHOULD UTILITIES BE ENCOUNTERED THAT ARE NOT INDICATED, NOTIFY THE OWNER'S ON-SITE REPRESENTATIVE IMMEDIATELY. THE REMOVAL OF ABANDONED IN PLACE SUBSTRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. MARK HIGH VOLTAGE ELECTRICAL SERVICES WITH PROPER WARNING SIGNS AND BARRICADES WHEN LOCATED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE UNIVERSITY OF CALIFORNIA ASSOCIATED WITH ANY TEMPORARY UTILITY RELOCATIONS AND/OR REPLACEMENT.




CALIFORNIA STATE FIRE MARSHAL




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REVIEWED BY *Jan Felt* DATE **July 10, 2015**

SYMBOLS	
	SITE BOUNDARY
	EXISTING BUILDING / BUILDING NUMBER
	EXISTING FENCE
	ROADS
	SURFACE WATER
	WETLANDS AREA
	TEMPORARY FENCE
	PROPOSED TRUCK ROUTE
	CORPORATION YARD BOUNDARY
	SLURRY WALL
	EXISTING COMMUNICATIONS LINE - OVERHEAD
	EXISTING COMMUNICATIONS LINE - ABANDONED
	EXISTING COMMUNICATIONS LINE - UNDERGROUND
	EXISTING ELECTRIC LINE - UNDERGROUND
	EXISTING ELECTRIC LINE - ABANDONED
	EXISTING GAS LINE - UNDERGROUND
	EXISTING GAS LINE - DEMOLISHED
	EXISTING SANITARY SEWER LINE - UNDERGROUND
	EXISTING STORM DRAIN LINE - UNDERGROUND
	EXISTING WATER LINE - UNDERGROUND
	EXISTING WATER LINE - DEMOLISHED
	CLEAN OUT
	WATER VALVE
	TREE
	ASPHALT / CONCRETE
	GRASS / DIRT
	TEMPORARY ORANGE BARRIER FENCE

APPROXIMATE RAW WORKZONES	
	EXCLUSION ZONES
	DECONTAMINATION ZONES
	SUPPORT ZONE

EXCAVATION AREAS	
	PCB EXCAVATION AREA
	CORPORATION YARD EXCAVATION AREA
	EXCAVATION AREA - BACKFILLED


ABBREVIATIONS:

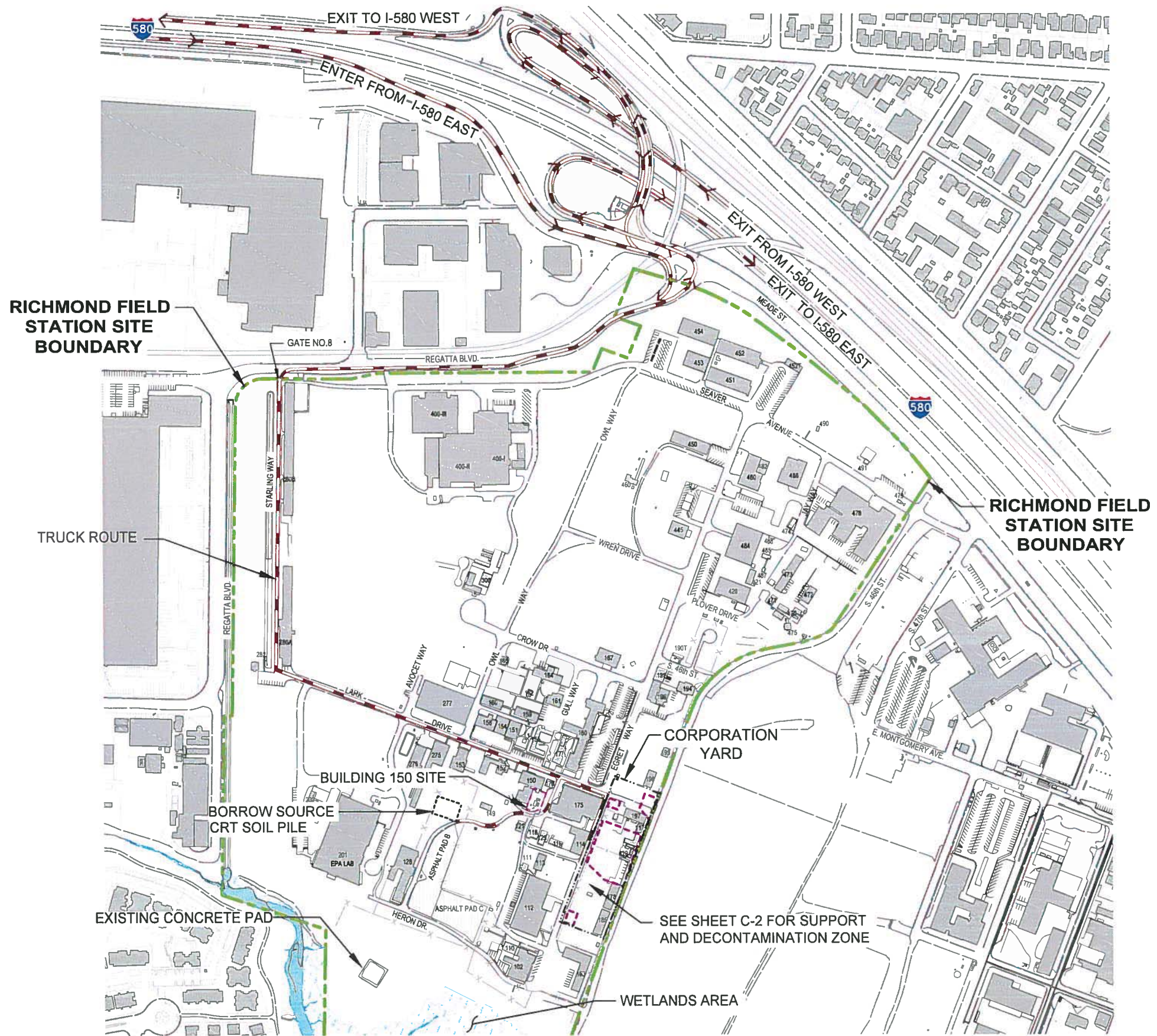
BGS	BELOW GROUND SURFACE
FT	FEET
PCB	POLYCHLORINATED BIPHENYLS
RAW	REMOVAL ACTION WORKPLAN
RFS	RICHMOND FIELD STATION



FOR BID

C:\Users\Public\Documents\Work\Richmond Field Station\G-2 Farmer RFS_MRF.dwg 05/13/2015 deborah.lund (IN)

REVISIONS			DESIGNED	STK	PREPARED BY:	NA NORTH	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	VERIFY SCALE BAR IS ONE (1) INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SCALES: HORIZONTAL SCALE: NA VERTICAL SCALE: NA	GENERAL ABBREVIATIONS, SYMBOLS AND NOTES	PROJECT NO.
NO.	DATE	DESCRIPTION	DRAWN	dmf	 TETRA TECH						1035225327
			CHECKED	JB							DRAWING NO. G-2
			DATE	05/13/2015							SHEET NO. 2 OF 7



NOTES:

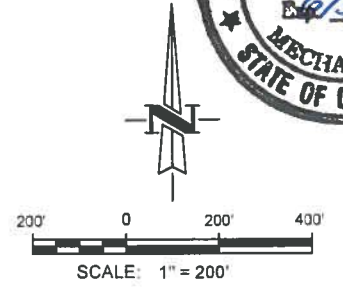
1. THE CONTRACTOR SHALL REPAIR ROADWAYS, FENCING, AND ALL FEATURES TO CONDITIONS THAT THEY WERE PRIOR TO EXECUTION OF THE WORK
2. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE EXCLUSION ZONES, DECONTAMINATION ZONES, AND SUPPORT ZONES TO KEEP UNAUTHORIZED PERSONNEL OUT OF THE ZONE AREAS. THE CONTRACTOR SHALL DEMARCAT AND CONTROL ALL ACCESS TO THE EXCLUSION ZONES, DECONTAMINATION ZONES AND SUPPORT ZONE.
3. NO TRUCKS SHALL LEAVE THE EXCLUSION ZONE WITHOUT BEING DECONTAMINATED WITHIN THE DECONTAMINATION ZONE.
4. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING OVERHEAD LINES AND POWER POLES.
5. CONTRACTOR'S SITE PERSONNEL AND EQUIPMENT MUST NOT TRAVEL OFF OF EXISTING OR APPROVED ROADS.

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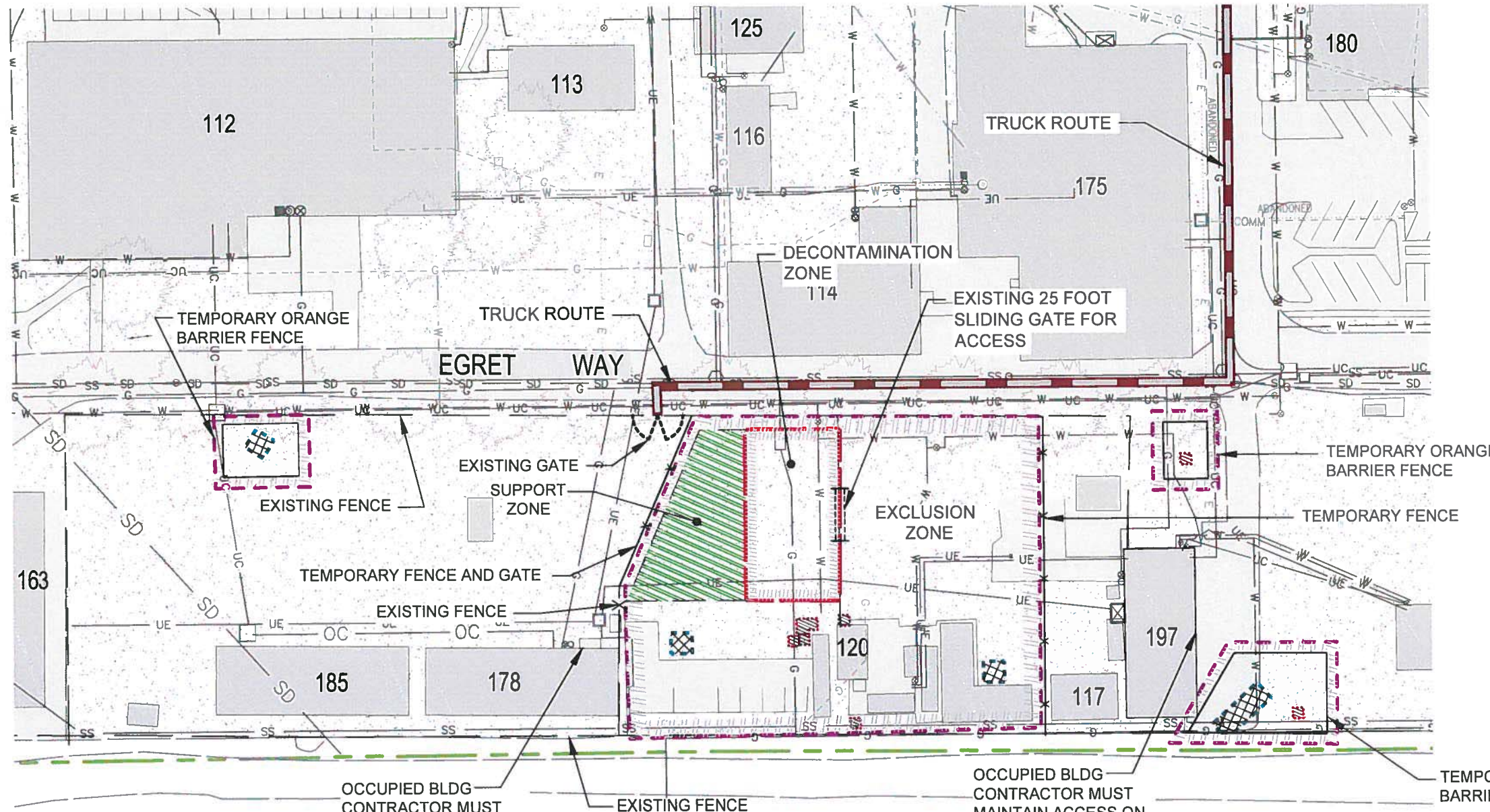
REVIEWED BY *Jan Felt* DATE July 10, 2015



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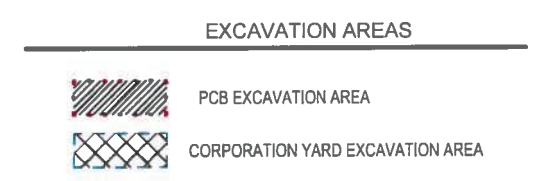
C:\Users\Public\Documents\New\Richmond Field Station\1 - RFS Site Prep Plan.dwg 05/13/2015 eborak\ltd.dwg

REVISIONS			DESIGNED	STK	PREPARED BY	 TETRA TECH NA NORTH	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	VERIFY SCALE	SCALES:	PROJECT NO. 1035225327 DRAWING NO. C-1 SHEET NO. 3 OF 7
NO.	DATE	DESCRIPTION	DRAWN	dmf	BAR IS ONE (1) INCH ON ORIGINAL DRAWING.			HORIZONTAL SCALE:		
			CHECKED	JB	IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. <td>VERTICAL SCALE:</td>			VERTICAL SCALE:		
			DATE	05/13/2015	NA			NA		



NOTES:

1. OWNER'S REPRESENTATIVE WILL SURVEY AND DELINEATE THE EXCAVATION AREAS IN THE FIELD PRIOR TO START OF EXCAVATION.
2. LOCATIONS OF THE UNDERGROUND UTILITIES MUST BE DETERMINED BY CONTRACTOR USING SAFE AND ACCEPTABLE MEANS SUCH AS UTILIZING PRIVATE UTILITY LOCATOR.
3. CONTRACTOR SHALL MANUALLY POTHOLE TO LOCATE UTILITIES WITHIN THE EXCAVATION AREAS. ALL EXISTING UTILITIES SHALL BE PROTECTED AND/OR SUPPORTED DURING EXCAVATION.
4. EQUIPMENT LAYDOWN, TRUCK PARKING, AND TEMPORARY FACILITIES SHALL BE LOCATED IN THE SUPPORT ZONE OR EXCLUSION ZONES.
5. IT IS ANTICIPATED THAT RELOCATION OF THE EXISTING FENCE IS NOT REQUIRED, IF THE CONTRACTORS MEANS AND METHODS REQUIRE RELOCATION OF THE EXISTING FENCE THEN CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE A DRAWING DEPICTING THE FENCE RELOCATION AND REPLACE THE FENCE IN THE SAME CONDITION AS BEFORE.
6. CONTRACTOR SHALL INSTALL TEMPORARY FENCE AS SHOWN.
7. CONTRACTOR SHALL DECONTAMINATE EQUIPMENT WITHIN THE EXCLUSION ZONES OF THE SMALL ISOLATED EXCAVATIONS NOT CONNECTED TO THE MAIN DECONTAMINATION ZONE.
8. PARKING FOR CONTRACTOR'S SITE WORKERS AND EQUIPMENT SHALL BE INSIDE THE SUPPORT ZONE.
9. CONTAMINANTS OF CONCERN IN THE PCB EXCAVATION AREA INCLUDE AROCLOR-1248, AROCLOR-1254, AND AROLCOR-1260.
10. CONTAMINANTS OF CONCERN IN THE CORPORATION YARD AREA INCLUDE ARSENIC, PCs, BAP(EQ) AND DIOXIN.



OCCUPIED BLDG CONTRACTOR MUST MAINTAIN ACCESS TO OCCUPANTS DURING CONSTRUCTION

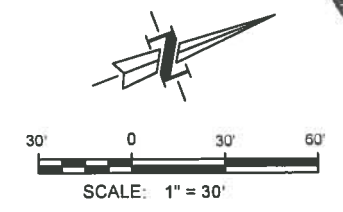
OCCUPIED BLDG CONTRACTOR MUST MAINTAIN ACCESS ON THE NORTH SIDE TO OCCUPANTS DURING CONSTRUCTION

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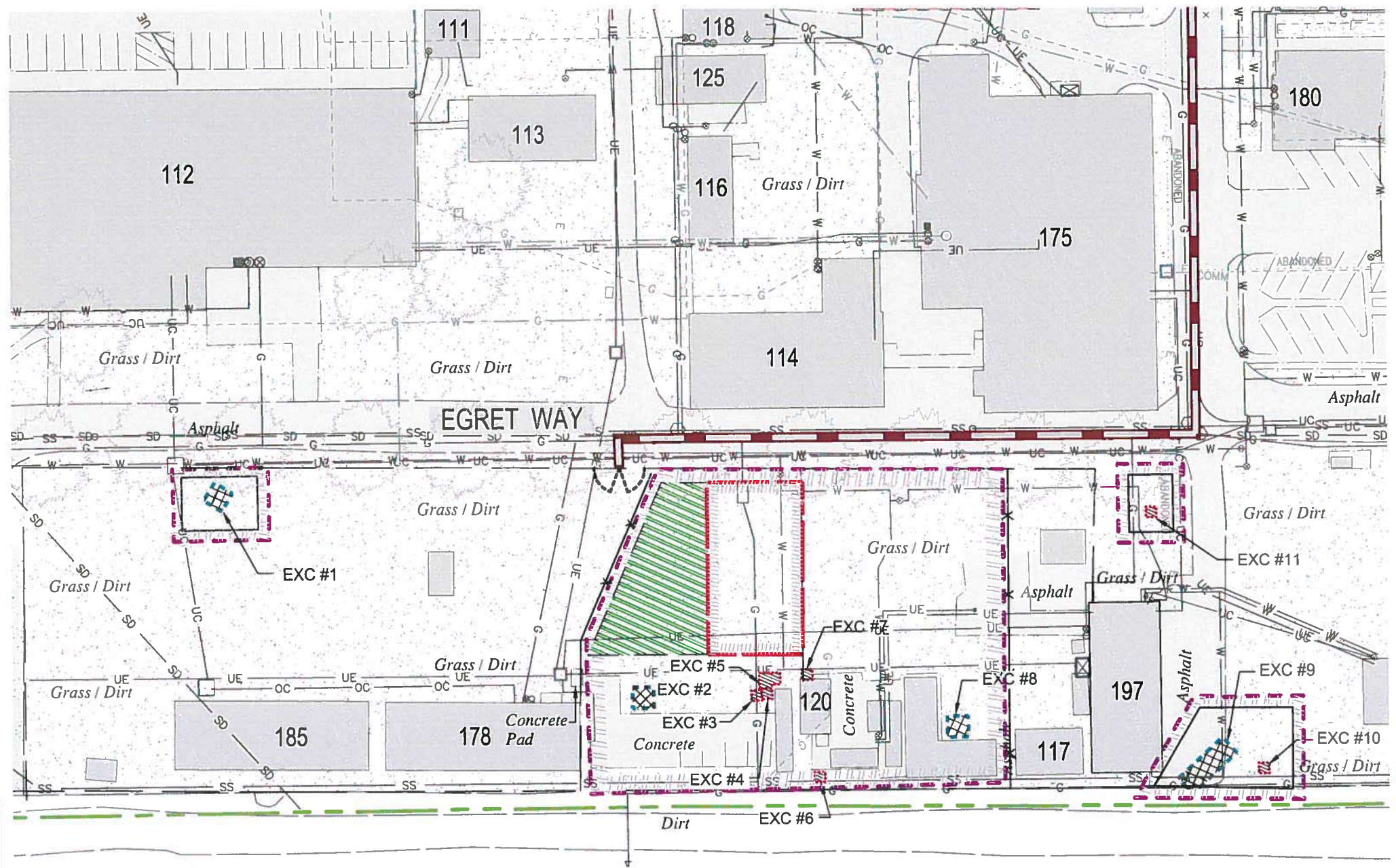
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REVIEWED BY *Ran Felt* DATE **July 10, 2015**



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REVISIONS			DESIGNED	STK	PREPARED BY:	VERIFY SCALE	SCALES:	PROJECT NO. 1039225327
NO.	DATE	DESCRIPTION	DRAWN	dmf		BAR IS ONE (1) INCH ON ORIGINAL DRAWING.	HORIZONTAL SCALE:	
			CHECKED	JB		NA	0 1"	NA
			DATE	05/13/2015	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERTICAL SCALE:	



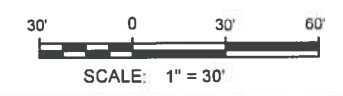
RAW EXCAVATION AREA ID			
EXCAVATION AREA		Excavation Depth (Below Grade Surface)	In Place Volume (Rounded to the nearest Cubic Yard)
EXC #	RAW Excavation Area ID	Ft.	Cu. Yd.
EXC #1	CY 4	1.5	6
EXC #2	CY 3	1.5	6
EXC #3	PCB 6C	1.5	1
EXC #4	PCB 6B	3.5	3
EXC #5	PCB 6A	1.5	4
EXC #6	PCB 5	1.5	1
EXC #7	PCB 7	1.5	1
EXC #8	CY 2	1.5	6
EXC #9	CY 1	1.5	16
EXC #10	PCB 4	1.5	1
EXC #11	PCB 3	1.5	1

RAW: REMOVAL ACTION WORKPLAN
 EXCAVATION DEPTH AND VOLUME INCLUDES THE GRAVEL LAYER.

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REVIEWED BY *[Signature]* DATE **July 10, 2015**

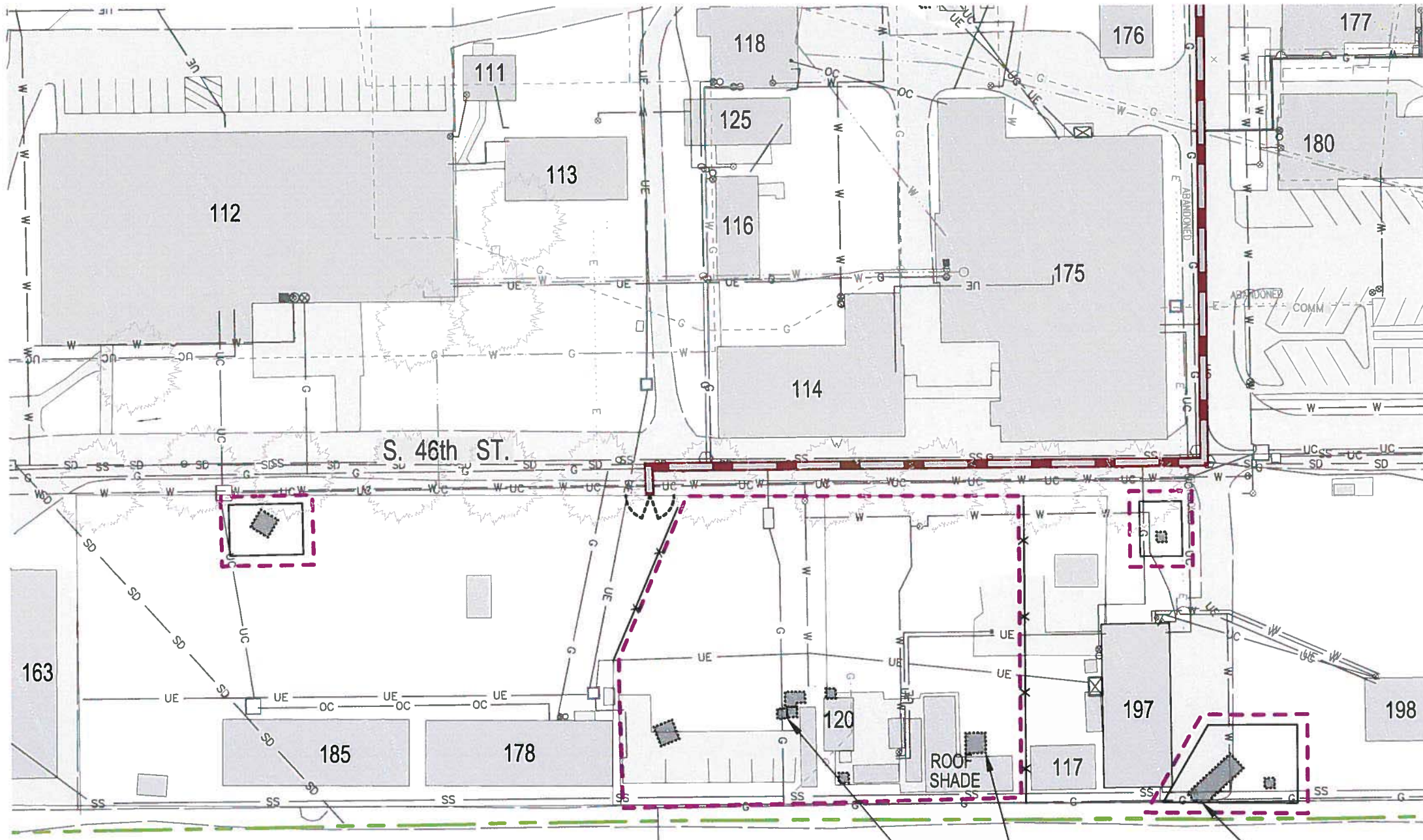


FOR BID

- NOTES:**
- PERFORM EXCAVATION WITHIN LINES, GRADES, AND ELEVATIONS INDICATED. REQUIRED SLOPING OR BENCHING OF THE EXCAVATION SHALL BE OUTSIDE OF THE EXCAVATION LIMITS.
 - THE CONTRACTOR SHALL CALL PRIVATE UTILITY LOCATOR AND RECEIVE A POSITIVE RESPONSE FROM ALL KNOWN OWNER/OPERATORS OF SUBSURFACE UTILITIES WITHIN THE BOUNDARIES OF THE PROPOSED PROJECT; THOSE RESPONSES CONFIRM THAT THE OWNER'S ON-SITE REPRESENTATIVE HAS LOCATED THEIR INSTALLATIONS AND/OR USE A UTILITY LOCATOR TO IDENTIFY UNDERGROUND UTILITIES.
 - WHEN THE EXCAVATION IS PROPOSED WITHIN 10 FEET OF AN ELECTRICAL UTILITY, PRIOR TO EXCAVATION, AN ONSITE MEETING INVOLVING THE CONTRACTOR AND THE OWNER'S ON-SITE REPRESENTATIVE SHALL BE SCHEDULED BY THE CONTRACTOR TO VERIFY THE LOCATION OF SUCH INSTALLATIONS.
 - POSITIVE LOCATION OF ALL SUBSURFACE UTILITIES MUST BE ACCOMPLISHED BY POTHOLING BY HAND EXCAVATION.
 - WHILE EXCAVATING, THE EXACT LOCATIONS OF THE SUBSURFACE UTILITIES MUST BE DETERMINED BY SAFE AND ACCEPTABLE MEANS.
 - CONTRACTOR SHALL IMMEDIATELY NOTIFY UC BERKELEY OWNER'S ON-SITE REPRESENTATIVE OF ANY DAMAGE DISCOVERED DURING OR CAUSED BY EXCAVATING ACTIVITIES.
 - WHILE THE EXCAVATION IS OPEN, THE SUBSURFACE UTILITIES MUST BE PROTECTED, SUPPORTED, OR REMOVED AS NECESSARY.
 - ALL EXCAVATED MATERIAL SHALL BE STOCKPILED WITHIN THE DECONTAMINATION ZONE ON PLASTIC LINER OR PLACED DIRECTLY INTO SOIL STORAGE/TRANSPORTATION BINS.
 - THE OWNER'S REPRESENTATIVE SHALL COLLECT CONFIRMATION SAMPLES FOLLOWING THE INITIAL EXCAVATION AS DESCRIBED IN THE SPECIFICATIONS. ADDITIONAL EXCAVATIONS SHALL BE DETERMINED BETWEEN THE CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO ANY ADDITIONAL FIELD WORK. THE ADDITIONAL OVER EXCAVATION AND MOBILIZATION SHALL BE PAID IN ACCORDANCE TO THE PRICE SCHEDULE.
 - CONTRACTOR SHALL MANUALLY DIG ALL EXCAVATIONS. THERE IS A 6-INCH GRAVEL TOP LAYER REQUIRING REMOVAL AND DISPOSAL. THE 6-INCH THICK GRAVEL LAYER THAT EXTENDS BELOW THE GROUND SURFACE MAY BE REMOVED USING MACHINE EXCAVATION.

REVISIONS			DESIGNED	STK	PREPARED BY:	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	VERIFY SCALE	SCALES:	CORPORATION YARD EXCAVATION PLAN	PROJECT NO.
NO.	DATE	DESCRIPTION	DRAWN	dmf	TETRA TECH		BAR IS ONE (1) INCH ON ORIGINAL DRAWING.	HORIZONTAL SCALE:		103S225327
			CHECKED	JB	NA	IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERTICAL SCALE:	C-3		
			DATE	05/13/2015	NORTH		NA	SHEET NO.		
								5 OF 7		

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NOTES:

1. DEPOSIT BACKFILL IN LAYERS OF A MAXIMUM OF 8 INCHES LOOSE THICKNESS, AND COMPACT IT WITH A RAMMER TAMPER OR IN A METHOD THAT IS EXPECTED TO ACHIEVE A COMPACTION OF 90 PERCENT ASTM D1557 MAXIMUM DRY DENSITY.
2. INSTALL 3 INCHES OF CLASS II AGGREGATE BASE AS THE FINAL LIFT AND COMPACT IT WITH A RAMMER TAMPER OR IN A METHOD THAT IS EXPECTED TO ACHIEVE A COMPACTION OF 90 PERCENT ASTM D1557 MAXIMUM DRY DENSITY.
3. EXCAVATIONS SHALL BE BACKFILLED TO MEET EXISTING GRADE.
4. CONTRACTOR SHALL USE EXISTING BORROW SOURCE AS SHOWN ON THE SITE PLAN.
5. SCARIFY THE SURFACE TO A DEPTH OF 6 INCHES BEFORE THE FILL IS STARTED. PLOW, STEP, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT THE FILL MATERIAL WILL BOND WITH THE EXISTING MATERIAL. SCARIFY THE EXCAVATED OR NATURAL GROUND PORTION AND COMPACT IT AS SPECIFIED FOR THE ADJACENT FILL.
6. OBTAIN BORROW MATERIAL FROM THE BORROW AREAS SHOWN ON DRAWING SHEET NO. C-1. UNLESS OTHERWISE PROVIDED IN THE CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO BEAR THE EXPENSE OF PREPARING THE MATERIAL PER SPECIFICATIONS, EXCAVATION AND DELIVERY, INCLUDING RIGHTS-OF-WAY, AND TRAFFIC CONTROL. CONSIDER NECESSARY CLEARING, GRUBBING, AND REPLACEMENT OF STRAW WATTLES FROM THE SOIL PILES AND THE DISPOSAL OF DEBRIS THEREON RELATED OPERATIONS TO THE BORROW EXCAVATION.
7. REVEGETATION OF THE AREAS IS NOT REQUIRED.
8. ASPHALT REPAIRS SHALL BE WITH COLD PATCH ASPHALT.

CALIFORNIA STATE FIRE MARSHAL

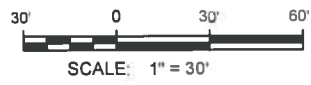
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REVIEWED BY Sam Zell DATE July 10, 2015

BACKFILL AND MATCH EXISTING GRADE WITH 4" COLD PATCH ASPHALT

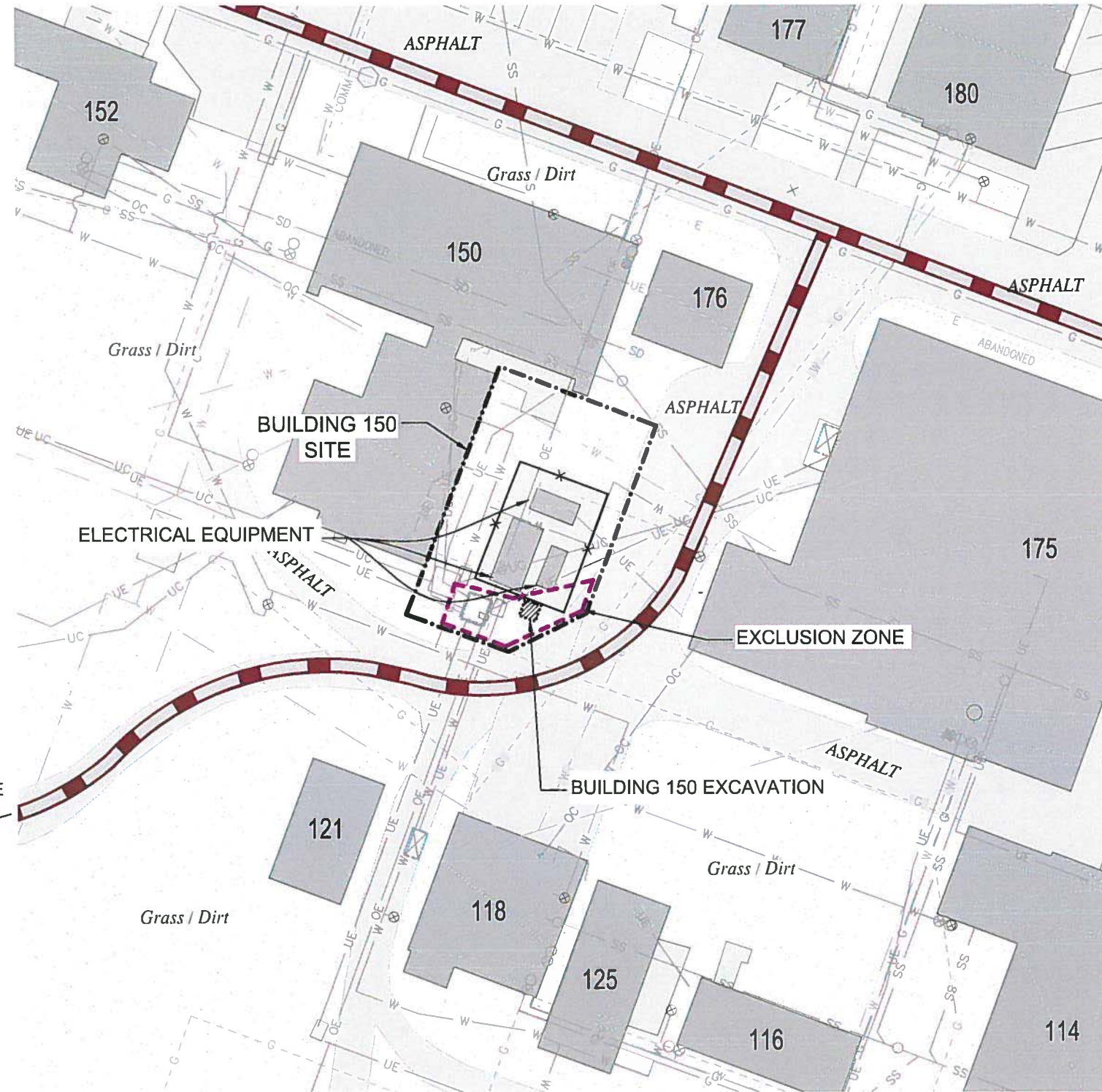
BACKFILL AND MATCH EXISTING GRADE AND MATERIALS (TYP. ALL EXCAVATIONS)



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NO.	DATE	DESCRIPTION	DRAWN	dmf	NA		BAR IS ONE (1) INCH ON ORIGINAL DRAWING.	HORIZONTAL SCALE:		1039225327
			CHECKED	JB <td></td> <td>NORTH</td> <td>0 1"</td> <td>NA</td> <td>C-4</td> <td></td>		NORTH	0 1"	NA	C-4	
				DATE 05/13/2015			IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERTICAL SCALE:		SHEET NO.
								NA		6 OF 7



RAW EXCAVATION AREA ID			
EXCAVATION AREA		Excavation Depth (Below Grade Surface)	In Place Volume (Rounded to the nearest Cubic Yard)
EXC #	RAW Excavation Area ID	Fl.	Cu. Yd.
BLDG 150	PCB 2	3.5	3

RAW : REMOVAL ACTION WORKPLAN

NOTES:

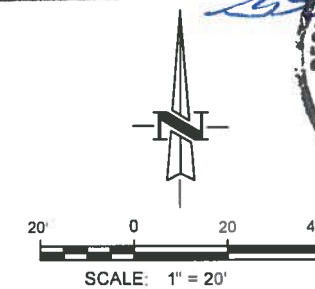
1. REFER TO NOTES ON DRAWING C-3 AND C-4.
2. CONTRACTOR SHALL NOT LEAVE EXCAVATION OPEN OR SHALL INSTALL TEMPORARY FENCING AROUND OPEN EXCAVATION.
3. CONTRACTOR SHALL DECONTAMINATE EQUIPMENT WITHIN THE EXCLUSION ZONE.

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C:\Users\Public\Documents\Richmond Field Station\ C-5 RFS Bldg 150 Site Plan.dwg 05/13/2015 eborah lord bh

REVISIONS			DESIGNED	STK	PREPARED BY:	NA NORTH	CORPORATION YARD SOIL REMOVAL RICHMOND FIELD STATION SITE UNIVERSITY OF CALIFORNIA BERKELEY	VERIFY SCALE	SCALES:	ALTERNATE 1 BUILDING 150 SITE PLAN AND EXCAVATION PLAN	PROJECT NO.
NO.	DATE	DESCRIPTION	DRAWN	dmf				BAR IS ONE (1) INCH ON ORIGINAL DRAWING.	HORIZONTAL SCALE:		1035225327
			CHECKED	JB				IF NOT ONE (1) INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERTICAL SCALE:		C-5
			DATE	05/13/2015				NA	7 OF 7		