Appendix B

Operable Unit 3-13, Group 3, Other Surface Soils Remediation Sets 1-3 (Phase I) Design Drawings

APPENDIX B

List of Drawings

DWG-625994

DWG-625995

DWG-625996

DWG-625997

DWG-625998

DWG-625999

DWG-626000

DWG-626001

DWG-626002

DWG-626003

DWG-626004

DWG-626005

DWG-626006

DWG-626007

DWG-626008

DWG-626009

DWG-626010

DWG-626011

DWG-626012

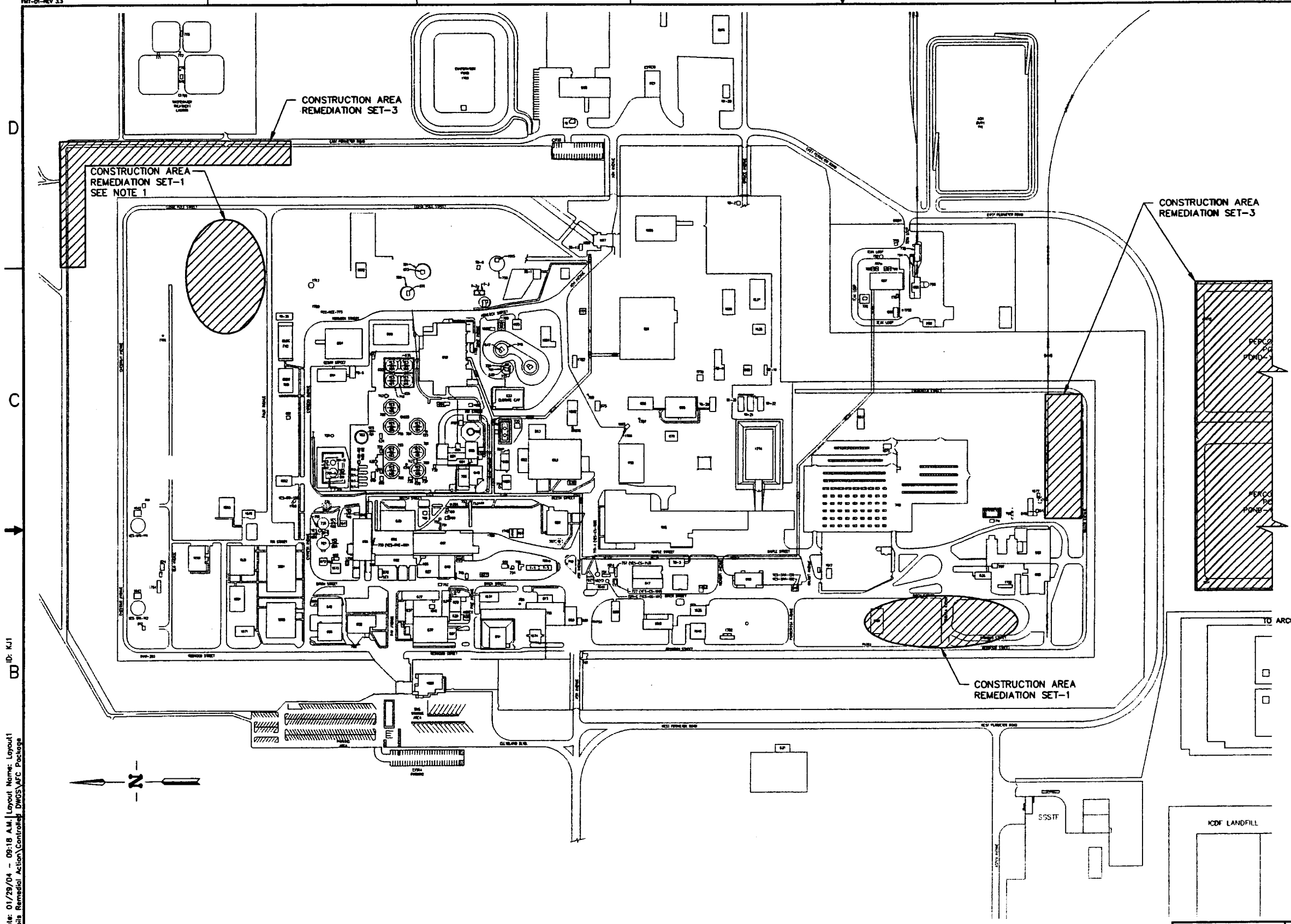
DWG-626013

DWG-626014

DWG-626015

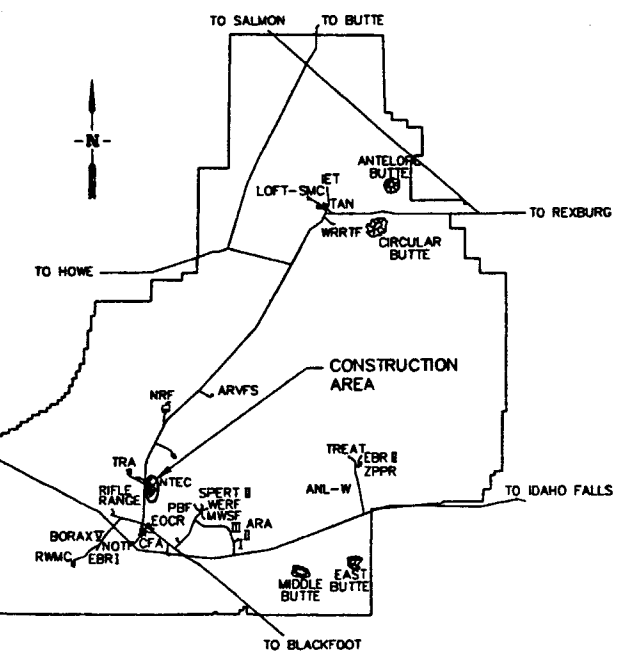
DWG-626016

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



INTEC AREA MAP

SCALE: 1"=200.0'
BASED ON SITE SPECIFIC DATUM



INEEL SITE MAP

SCALE: NONE

NOTES

1. THIS AREA WILL BE USED TO STORE SALVAGED ITEMS AFTER SITE CPP-97 IS REMEDIATED.
2. REMEDIATION SET #2 IS NOT IN THIS PACKAGE.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
2-04-04
STATE OF IDAHO
CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
200' 100' 50' 0 200' SCALE: 1" = 200.0'	REQUESTER: KIM ROGERS DESIGN: C.O. KINGSFORD DRAWN: ROB HERGESHEIMER PROJECT NO. 23083 SPEC CODE	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN INTEC AREA AND INEEL SITE MAPS
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 200 TYPE 0100 CL 01 DISC 090 · DWG-625994 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/5/04	SCALE: NOTED · SHEET T-1

File: 625994.dwg
Path: K:\INTEC WAG-3 Group 3 OU3-13 Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 - 09:18 A.M. | Layout Name: Layout1 | ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:

DRAWING INDEX

PAGE NO.	DWG NO.	A-E DWG NO.	REV	DRAWING TITLE
1	625994	T-1		INTEC AREA AND INEEL SITE MAPS
2	625995	T-2		DRAWING INDEX
				REMEDIATION SET-1
3	625996	C-1		REMEDIATION SET-1 AREA MAP AND HAUL ROUTES
4	625997	C-2		CPP-92, 98 AND 99 ENLARGED PLAN
5	625998	C-3		CPP-97 ENLARGED PLAN
				REMEDIATION SET-3
6	625999	C-4		REMEDIATION SET-3 AREA MAP AND HAUL ROUTES
7	626000	C-5		CPP-34A DEMOLITION PLAN
8	626001	C-6		CPP-34A FINISH PLAN
9	626002	C-7		CPP-34B DEMOLITION AND FINISH PLANS
10	626003	C-8		EXCAVATION SECTIONS
11	626004	C-9		CPP-67 DEMOLITION PLAN
12	626005	C-10		CPP-67 FINISH PLAN
13	626006	C-11		STOCKPILES 1 AND 2 PLAN
14	626007	C-12		EXCAVATION AND FILL SECTIONS
15	626008	C-13		CPP-3 DEMOLITION PLAN
16	626009	C-14		CPP-3 FINISH PLAN
17	626010	C-15		EXCAVATION SECTIONS AND DETAIL
18	626011	C-16		BYPASS ROAD
19	626012	C-17		DITCH, ROAD AND FENCE DETAILS
20	626013	C-18		PHOTOS
21	626014	P-1		SITE CPP-67 PIPING PLAN
22	626015	E-1		SITE CPP-3 ELECTRICAL PLAN
23	626016	E-2		CPP-603 PARTIAL PLAN

GENERAL NOTES

1. RETAIN AND PROTECT ALL FACILITIES UNLESS OTHERWISE NOTED.
2. SEE PLAN SHEETS OF SITES FOR THE ESTIMATING BASES FOR EXCAVATION AND BACKFILL QUANTITIES.

PROFESSIONAL ENGINEER - LAND SURVEYOR REGISTERED 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
NO SCALE	REQUESTOR: KIM ROGERS DESIGN: C.O. KINGSFORD DRAWN: ROB HERGESHEIMER PROJECT NO. 23083 SPEC CODE	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN DRAWING INDEX
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 200 TYPE 9999 CL 01 ORIG 090 · DWG-625995 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 02/5/04	SCALE: NONE · SHEET T-2

File: 625995.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controls\ DWGS\AFC Package
Date: 01/29/04 - 09:03 A.M. | Layout Name: D Size
ID: KJI

REVISIONS		
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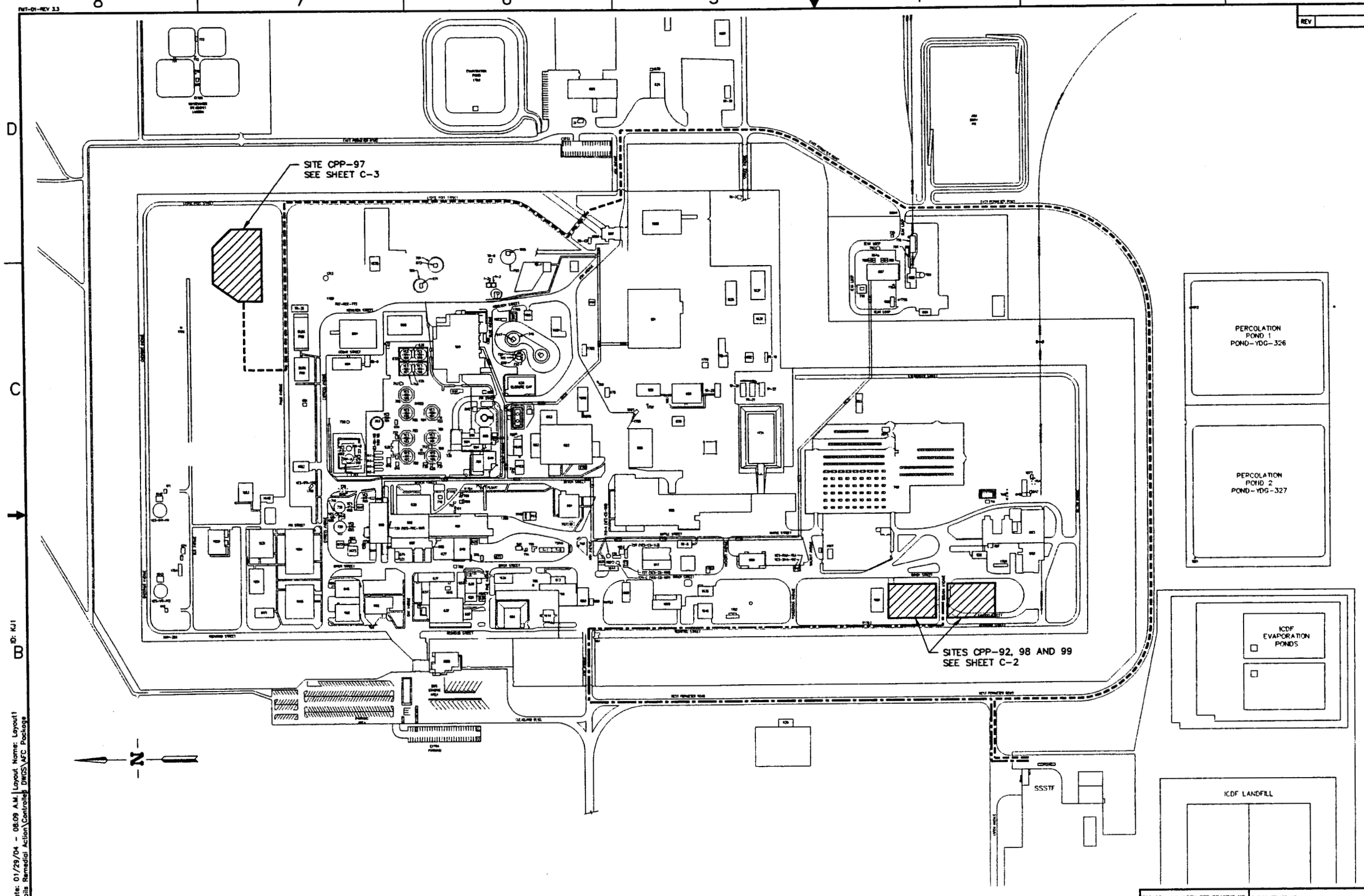

LEGEND

- - - - - - HAUL ROUTE FOR CPP-97

—·—·— HAUL ROUTE FOR CPP-92, CPP-98 AND CPP-99

REMEDIATION SET-1 AREA MAP AND HAUL ROUTES

SCALE: 1"=200.0'
BASED ON SITE SPECIFIC DATUM

FOR DRAWING INDEX SEE DRAWING NO.	625995
SCALE: 1" = 200.0'	
DESIGN PHASE:	AFC
SAFETY CATEGORY:	CG
SUBCONTRACT NO.	N/A
REQUESTER:	KIM ROGERS
DESIGN:	C.O. KINGSFORD
DRAWN:	
PROJECT NO.	23083
SPEC CODE	
FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO.	108956
EFFECTIVE DATE:	02/05/04

INEEL BECHTEL BWXT IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
REMEDIATION SET-1 AREA MAP AND HAUL ROUTES

SIZE	CAGE CODE	INDEX CODE NUMBER AREA	TYPE	Q	ORG	DWG-625996	REV
D	01MF3	200	0100	02	090		

SCALE: NOTED — SHEET C-1

File: 625996.dwg
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Date: 01/29/04 - 08:09 AM | Layout Name: Layout1 | ID: KJ1

REVISIONS		
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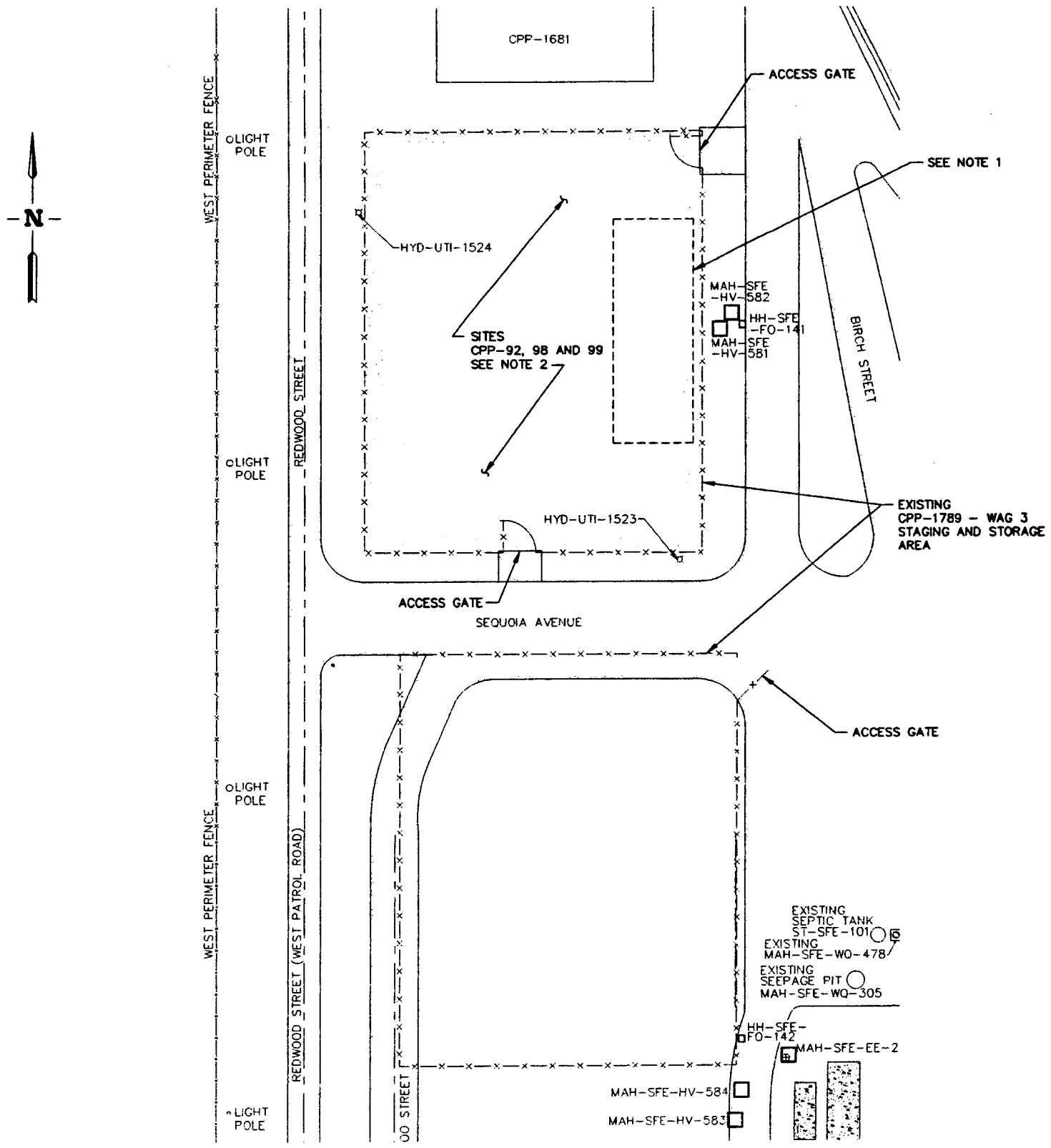


CPP-92, 98 & 99 ENLARGED PLAN

(SITE CPP-92, 98 AND 99)
SCALE: 1"=30.0'
(STORAGE FOR WASTE BOXES)

LEGEND

EXISTING FEATURES

EXISTING FENCE

NOTES

1. RETAIN AND PROTECT STORAGE TANKS IN THIS AREA.
2. HAUL THESE BOXES TO THE ICDF LANDFILL. SEE SHEET C-1 FOR THE HAUL ROUTE. BOXES NOT SHOWN FOR CLARITY.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 2-04-04 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
30' 20' 10' 0 30' SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN: ROB HERGESHEIMER
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04

INEEL BECHTEL BWXT IDAHO, LLC

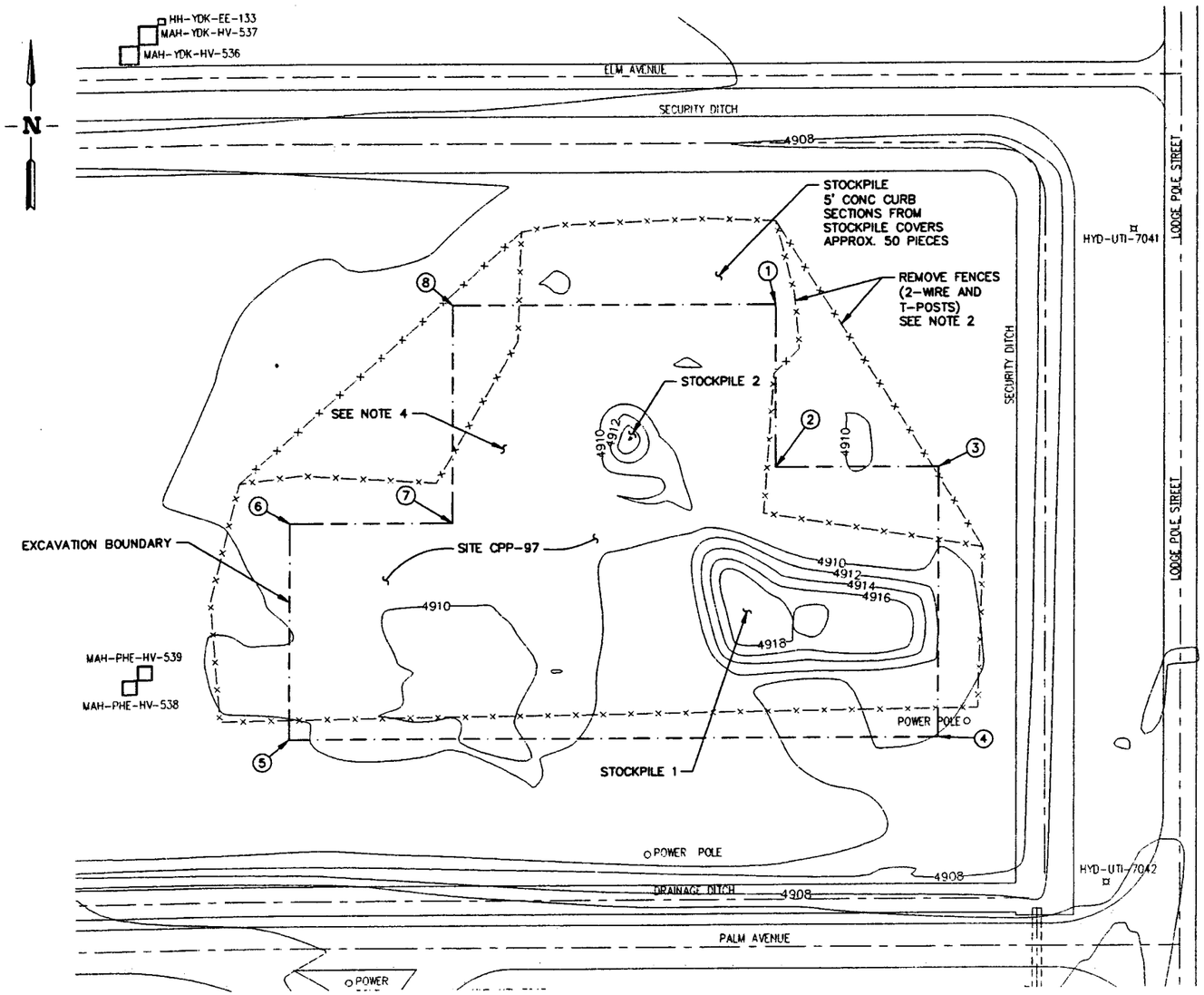
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-92, 98 AND 99 ENLARGED PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER				DWG	REV
		AREA	TYPE	CL	DISC		
D	01MF3	200	0100	02	090	625997	

SCALE: NOTED SHEET C-2

File: 625997.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 - 08:12 A.M. | Layout Name: CPP-92-98-99 | ID: KJI

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



CPP-97 ENLARGED PLAN

(SITE CPP-97)
SCALE: 1"=30.0'
BASED ON SITE SPECIFIC DATUM

LEGEND

- EXISTING FEATURES
- XXXX EXISTING CONTOURS – 2.0' INTERVAL
- EXISTING FENCE
- (XX) COORDINATE TABLE MARK
- 0.5' EXCAVATION REQUIRED (SEE NOTE 4)

NOTES

1. SITE CONTAINS SOIL IN TWO STOCKPILES TO BE HAULED TO THE ICDF.
2. FENCE MATERIALS SHALL BE SALVAGED AND TURNED OVER TO THE CONTRACTOR REPRESENTATIVE.
3. DISPOSE OF SAND BAGS (APPROX. 225) WITH WASTE WHICH ARE USED TO HOLD THE TARPS IN PLACE. RETURN TARP COVERS TO THE CONTRACTOR REPRESENTATIVE. STOCKPILE APPROX. 50 CONCRETE CURBS.
4. AFTER STOCKPILES ARE REMOVED, EXCAVATE 0.5' IN THIS AREA AND BACKFILL WITH PIT RUN GRAVEL.

COORDINATE TABLE

DATUM:
HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING
1	696,450.00	297,675.00
2	696,375.00	297,675.00
3	696,375.00	297,750.00
4	696,250.00	297,750.00
5	696,250.00	297,450.00
6	696,350.00	297,450.00
7	696,350.00	297,525.00
8	696,450.00	297,525.00

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
EXCAVATION – STOCKPILE 1	TON	2170
EXCAVATION – STOCKPILE 2	TON	115
TRANSPORTATION	TON	2285
EXCAVATION – NATURAL GROUND TO 0.5' DEPTH	TON	1652
TRANSPORTATION	TON	1652
BACKFILL	CY	955

BASIS OF ESTIMATE

MAX UNIT WT = 135 LB/C.F.

STOCKPILES
ESTIMATED % COMPACTION = 85%
ADJUSTED UNIT WT = 114.8 LB/C.F. OR 1.55 TON/C.Y.

NATURAL GROUND
ESTIMATED % COMPACTION = 95%
ADJUSTED UNIT WT = 128.3 LB/C.F. OR 1.73 TON/C.Y.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
30' 20' 10' 0 30' SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN: ROB HERGESHEIMER
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04

INEEL — BECHTEL BWXT IDAHO, LLC

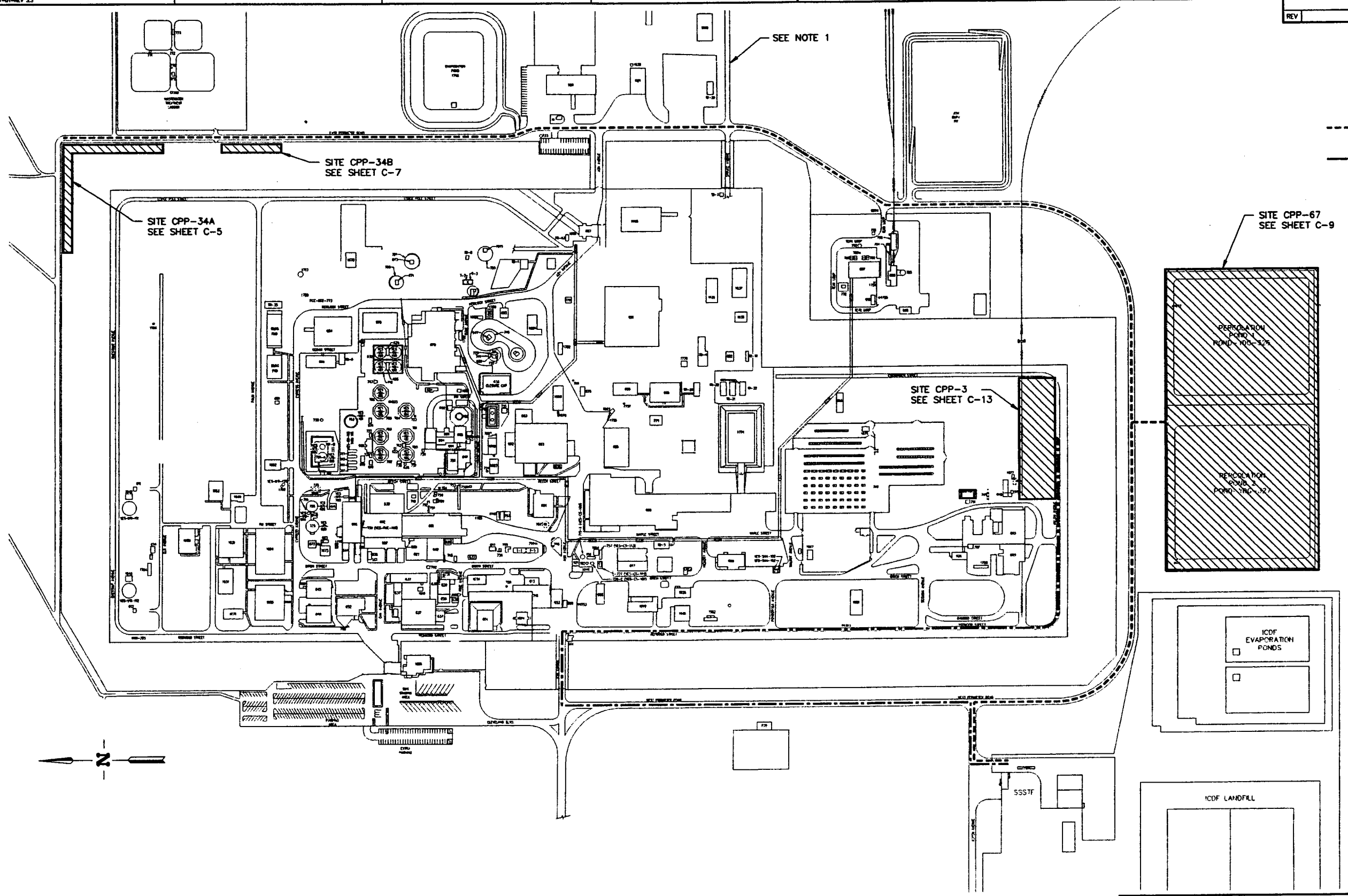
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-97 ENLARGED PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER: AREA	TYPE	Q	ORG	DWG-625998	REV
D	01MF3	200	0100	02	090		

SCALE: NOTED — SHEET C-3

File: 625998.dwg
Path: K:\INTEC WAG-3 Group 3 OU#3 Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 – 08:14 AM | Layout Name: CPP-97
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



LEGEND

- - - - - - HAUL ROUTE FOR CPP-34A, CPP-34B, AND CPP-67

—·—·— HAUL ROUTE FOR CPP-3

NOTES

1. FOR BYPASS ROAD SEE SHEET C-16.

REMEDIATION SET-3 AREA MAP AND HAUL ROUTES

SCALE: 1"=200.0'
BASED ON SITE SPECIFIC DATUM

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
STATE OF IDAHO
2104
CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL Idaho National Engineering & Environmental Laboratory LOCKHEED MARTIN IDAHO, LLC
200' 100' 50' 0 200' SCALE: 1" = 200.0'	REQUESTOR: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN REMEDIATION SET-3 AREA MAP AND HAUL ROUTES
	DESIGN: C.O. KINGSFORD	
	DRAWN: Greg Fowler	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 200 TYPE 0100 CL 02 ORIG 090 · DWG-625999 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED · SHEET C-4

File: 625999.dwg
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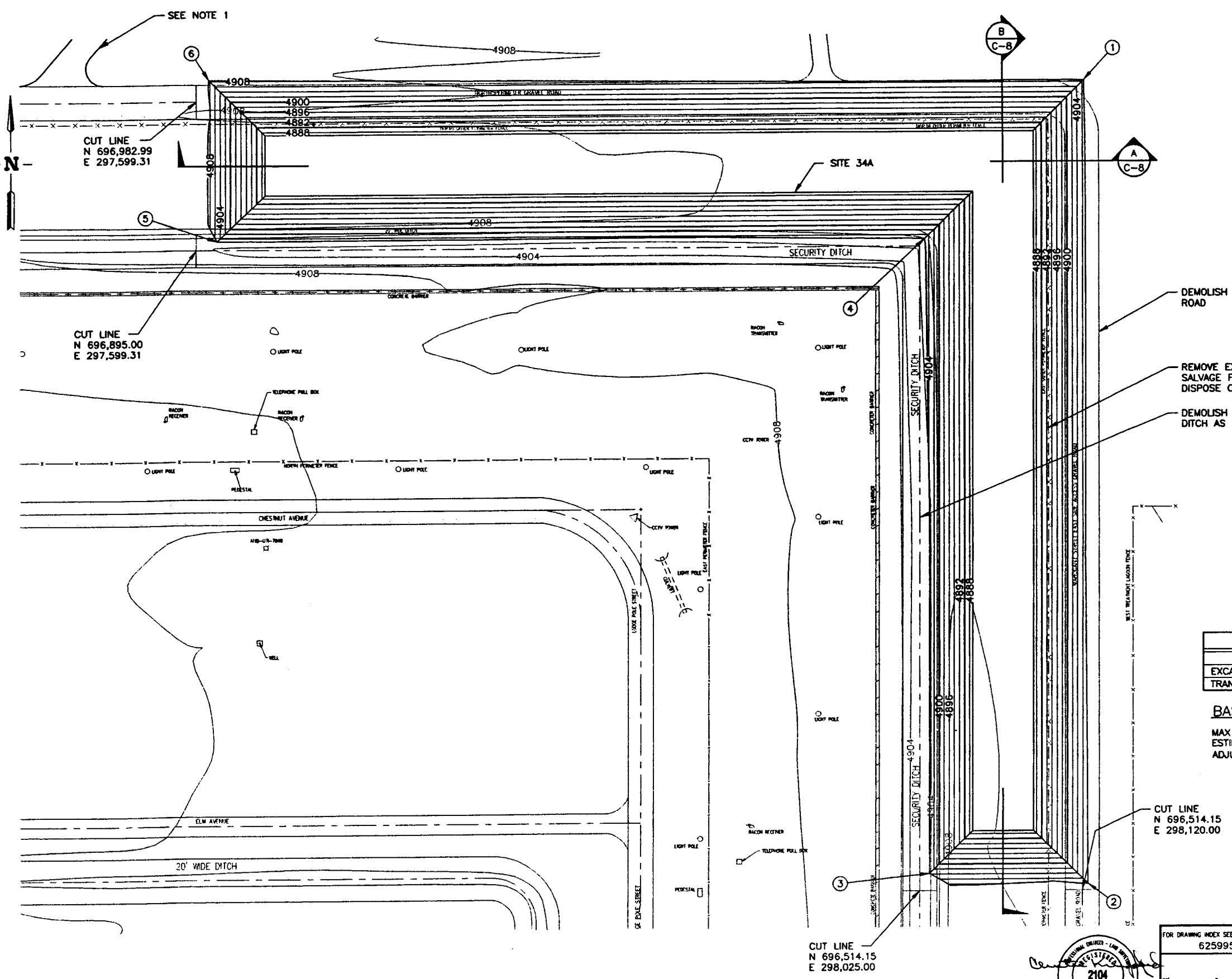
Date: 01/29/04 - 08:16 A.M. | Layout Name: Layout1 | ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



LEGEND

49XX	EXISTING CONTOURS
49XX	EXCAVATION CONTOURS
(XX)	COORDINATE TABLE MARK

COORDINATE TABLE

DATUM: HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING	ELEVATION
1	696,992.87	298,121.22	4906.63
2	696,517.95	298,123.14	4907.92
3	696,524.27	298,030.61	4903.70
4	696,899.24	298,027.58	4905.72
5	696,900.03	297,611.37	4905.20
6	696,995.63	297,606.46	4908.47

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
EXCAVATION	TON	79,620
TRANSPORTATION	TON	79,620

BASIS OF ESTIMATE – UNIT WT

MAX UNIT WT = 135 LB/C.F.
ESTIMATED % COMPACTION = 95%
ADJUSTED UNIT WT = 128.3 LB/C.F. OR 1.73 TON/C.Y.

NOTES

1. FOR BYPASS ROAD SEE SHEET C-16.
2. ALL CUT SLOPES ARE 1 1/2:1.

CPP-34A DEMOLITION PLAN

(SITES CPP-34A)
SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM

REGISTERED PROFESSIONAL ENGINEER 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN: ROB HERGESHEIMER
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES
SAFETY CATEGORY: CG	SEE DAR NO. 108956
	EFFECTIVE DATE: 2/05/04

INEEL BECHTEL BWXT IDAHO, LLC

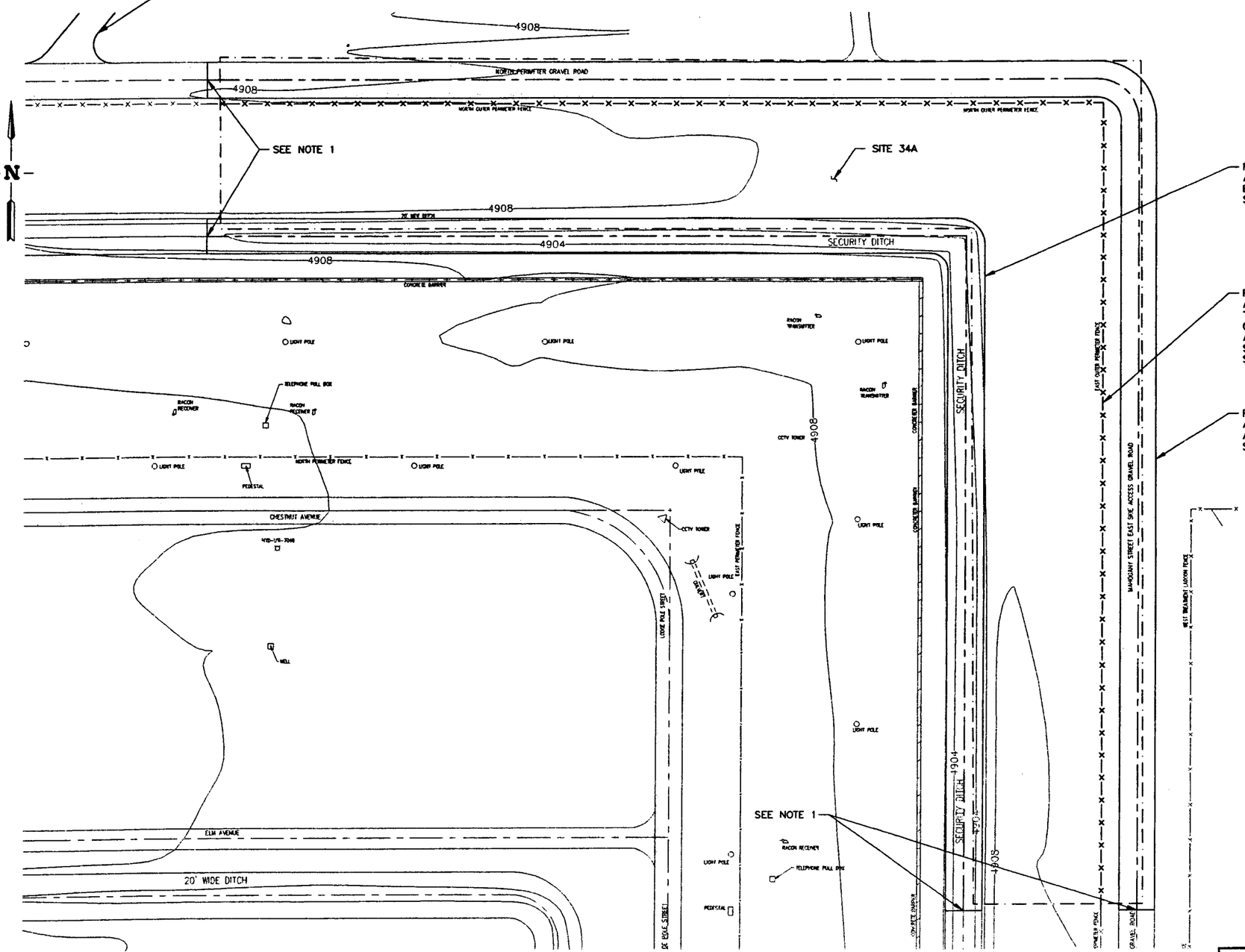
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-34A DEMOLITION PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER (AREA / TYPE / G / OBJ)	DWG-626000	REV
D	01MF3	200 / 0100 / 02 / 090		

SCALE: NOTED SHEET C-5

File: 626000.dwg
Path: K:\INTEC WAG-3 Group 3 OMSF Soils Remedial Action\Controls\DWGS\AFC Package
Date: 01/29/04 – 1:13 P.M. | Layout Name: CPP-34A-Demo | ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



LEGEND

49XX	EXISTING AND FINISH CONTOURS
— · —	REMEDIATION BOUNDARY

REPLACE SECURITY DITCH AFTER EXCAVATION AND BACKFILL ARE COMPLETE SEE DETAIL 1/C-17

REPLACE ANIMAL FENCE AFTER EXCAVATION AND BACKFILL ARE COMPLETE. USE EXISTING T-POSTS AND WIRE MESH. NEW POSTS AND CONCRETE AND MISCELLANEOUS HARDWARE AS REQUIRED. SEE DETAIL 4/C-17 SEE SPEC

REPLACE SECURITY ROAD AFTER EXCAVATION AND BACKFILL ARE COMPLETE SEE DETAIL 3/C-17

ESTIMATED QUANTITIES		
ITEM	UNIT	QTY
BACKFILL / COMPACTION	CY	46,023

NOTES

1. MATCH EXISTING GRADE OF ROAD AND DITCH.
2. FOR BYPASS ROAD SEE SHEET C-16.
3. FINISH CONTOURS TO MATCH EXISTING CONTOURS AFTER EXCAVATION AND BACKFILL ARE COMPLETE.

CPP-34A FINISH PLAN

(SITES CPP-34A)
SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM

PROFESSIONAL ENGINEER - LAND SURVEYOR REGISTERED 2104 04-04-04 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO.	625995
SCALE: 1" = 30.0'	
DESIGN PHASE:	AFC
SAFETY CATEGORY:	CG
SUBCONTRACT NO.	N/A
REQUESTER:	KIM ROGERS
DESIGN:	C.O. KINGSFORD
DRAWN:	ROB HERGESHEIMER
PROJECT NO.	23083
SPEC CODE	
FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	
EFFECTIVE DATE:	4/05/04

INEEL BECHTEL BWXT IDAHO, LLC

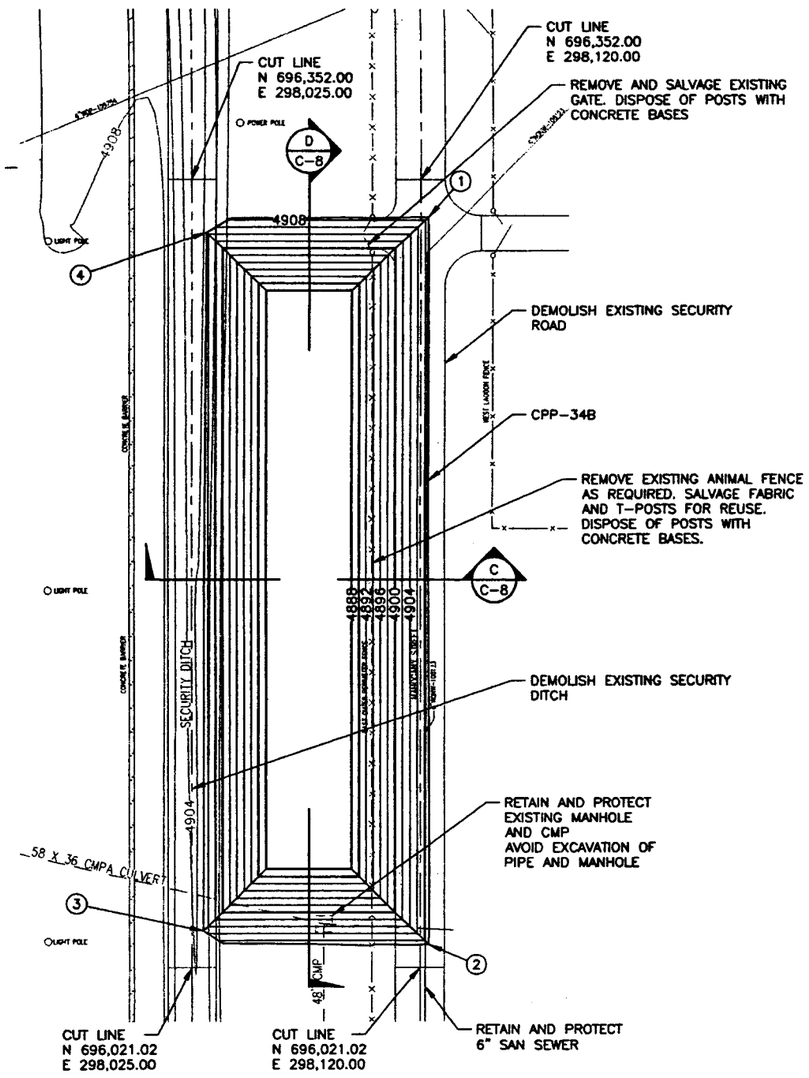
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-34A FINISH PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER AREA	TYPE	CL	SEQ	DWG-	REV
D	01MF3	200	0100	02	090	626001	

SCALE: NOTED SHEET C-6

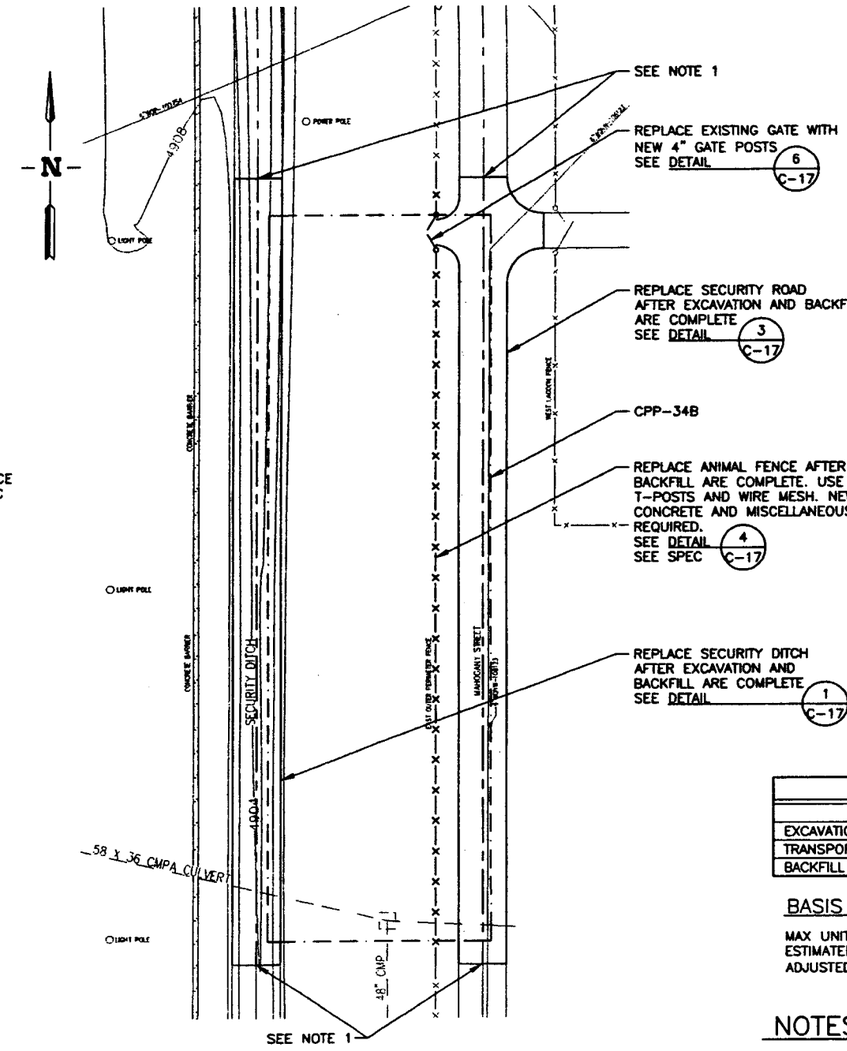
PMT-D1-REV 3.3
File: 626001.dwg Path: K:\NTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package Date: 01/29/04 - 08:20 AM Layout Name: CPP-34A-Install ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



CPP-34B DEMOLITION PLAN

(SITES CPP-34B)
SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM



CPP-34B FINISH PLAN

(SITES CPP-34B)
SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM

LEGEND

- 49XX — EXISTING AND FINISHED CONTOURS
- 49XX — EXCAVATION CONTOURS
- (XX) COORDINATE TABLE MARK
- REMEDIATION BOUNDARY

COORDINATE TABLE

DATUM: HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING	ELEVATION
1	696,336.25	298,123.09	4908.88
2	696,030.68	298,123.42	4909.10
3	696,036.47	298,029.81	4905.24
4	696,329.59	298,031.00	4904.44

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
EXCAVATION	TON	25,822
TRANSPORTATION	TON	25,822
BACKFILL / COMPACTION	CY	14,926

BASIS OF ESTIMATE – UNIT WT

MAX UNIT WT = 135 LB/C.F.
ESTIMATED % COMPACTION = 95%
ADJUSTED UNIT WT = 128.3 LB/C.F. OR 1.73 TON/C.Y.

NOTES

1. MATCH EXISTING GRADE OF ROAD AND DITCH. SEE COORDINATES ON DEMOLITION PLAN.
2. FINISH CONTOURS TO MATCH EXISTING CONTOURS AFTER EXCAVATION AND BACKFILL IS COMPLETE.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO 2-04-04 CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
30' 20' 10' 0 30' SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN CPP-34B DEMOLITION AND FINISH PLANS
	DESIGN: C.O. KINGSFORD	
	DRAWN: ROB HERGESHEIMER	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 200 TYPE 0100 Q 02 DISC 090 · DWG-626002 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED · SHEET C-7

File: 626002.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\FC Package
Date: 01/29/04 – 08:21 AM | Layout Name: CPP-34B | ID: KJ1

REVISIONS		
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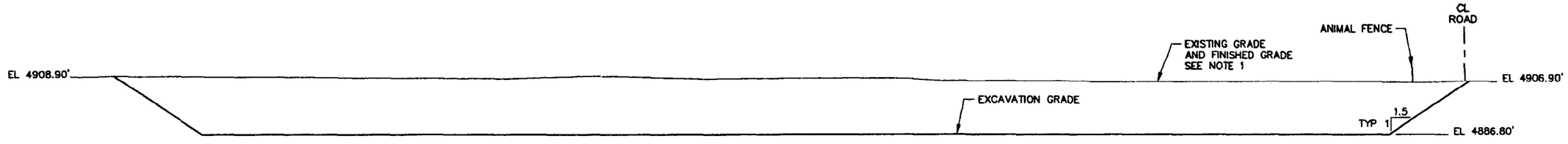
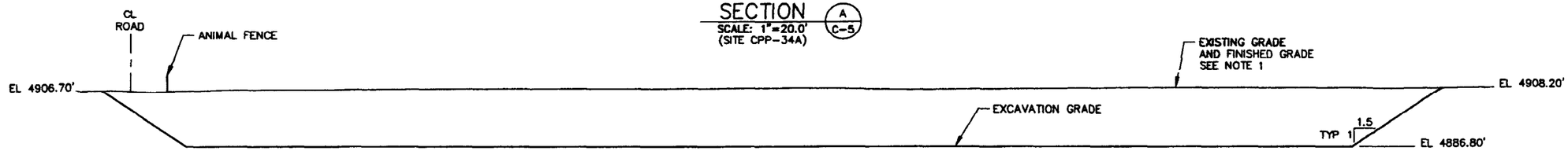
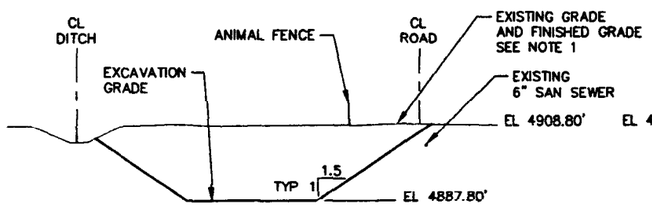


SECTION A C-5
SCALE: 1"=20.0'
(SITE CPP-34A)

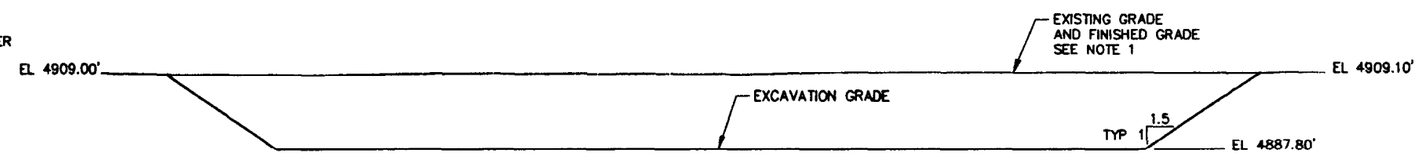


SECTION B C-5
SCALE: 1"=20.0'
(SITE CPP-34A)

SECTIONS FOR SITE CPP-34A



SECTION C C-7
SCALE: 1"=20.0'
(SITE CPP-34B)



SECTION D C-7
SCALE: 1"=20.0'
(SITE CPP-34B)

SECTIONS FOR SITE CPP-34B

LEGEND

- EXISTING GRADE
- EXCAVATION GRADE
- BACKFILL GRADE LINE

NOTES

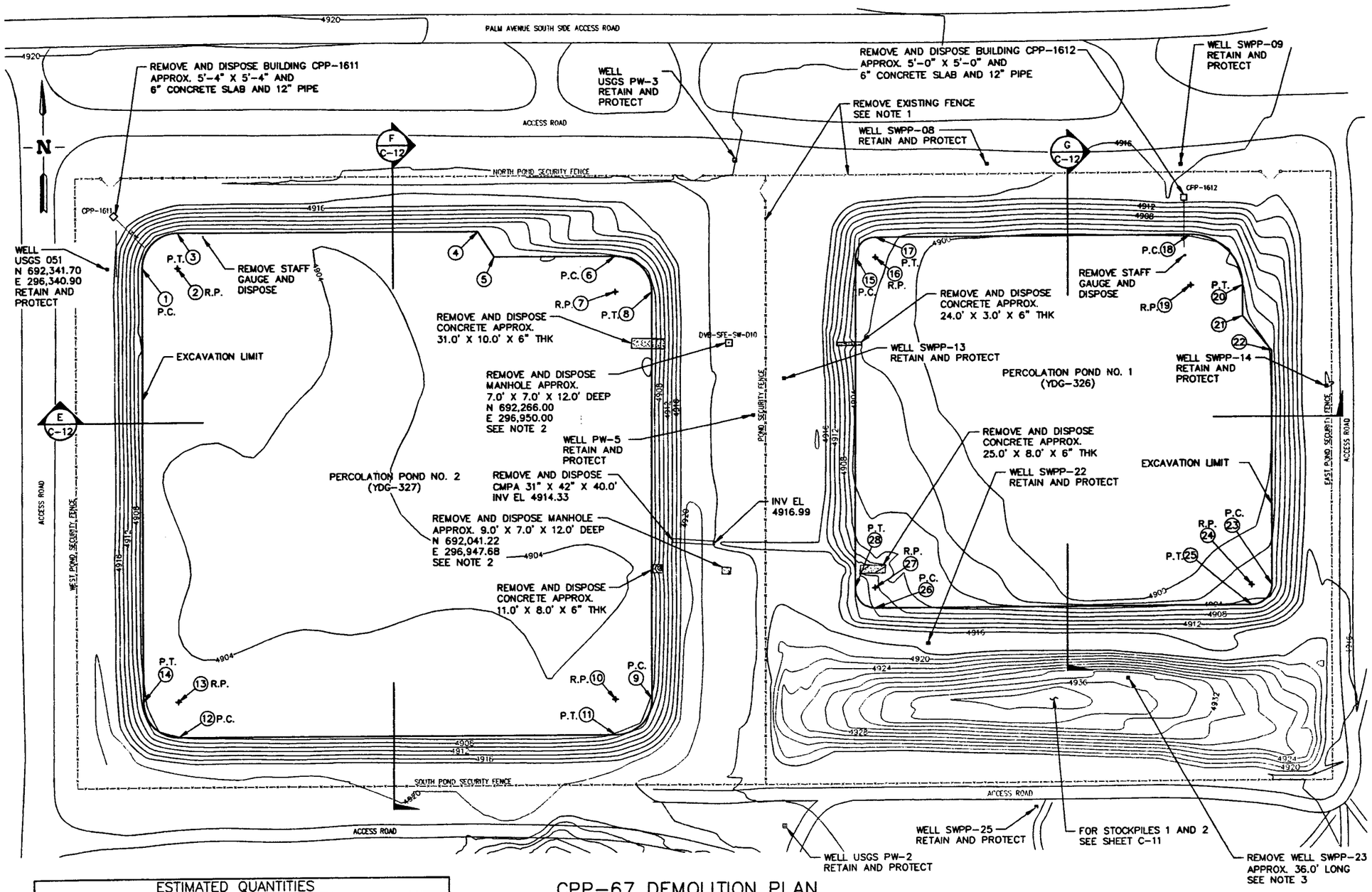
1. BACKFILL TO EXISTING GRADE AFTER EXCAVATION IS COMPLETE WITH PIT RUN GRAVEL.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
20' 10' 5' 0 20' SCALE: 1" = 20.0'	REQUESTER: N.K. ROGERS DESIGN: C.O. KINGSFORD DRAWN: Jesse Kempton PROJECT NO. 23083 SPCL CODE	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN EXCAVATION SECTIONS
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D; CAGE CODE 01MF3; INDEX CODE NUMBER AREA 0200 TYPE 9999 CL 02 ORG 090; DWG-626003; REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED; SHEET C-8

File: 626003.dwg
Path: K:\INTEC WAG-3 Group 3 Offsite Soils Remedial Action\Controls\ DWGS\AFC Package
Date: 01/29/04 - 08:23 A.M. | Layout Name: Layout1
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



LEGEND

490X	EXISTING CONTOURS
490X	EXCAVATION CONTOURS
XX	COORDINATE TABLE MARK
P.C.	POINT OF CURVATURE
P.T.	POINT OF TANGENT
R.P.	RADIUS POINT

NOTES

1. SALVAGE WIRE MESH FROM FENCES AND TURN OVER TO CONTRACTOR REPRESENTATIVE. DISPOSE OF STEEL POSTS AND CONCRETE BASES.
2. SEE SHEET P-1 FOR LOCATIONS TO CAP PIPE.
3. REMOVE WELL CASING, CUT CASING INTO 5.0' MAX. LENGTH AND DISPOSE.

COORDINATE TABLE

DATUM: HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING	ELEVATION
1	692,341.79	296,375.89	--
2	692,341.79	296,410.89	--
3	692,376.79	296,410.89	--
4	692,376.79	296,706.83	--
5	692,351.82	296,722.47	--
6	692,351.82	296,840.65	--
7	692,316.82	296,840.65	--
8	692,316.82	296,875.65	--
9	691,915.04	296,875.65	--
10	691,915.04	296,840.65	--
11	691,880.04	296,840.65	--
12	691,880.04	296,410.89	--
13	691,915.04	296,410.89	--
14	691,915.04	296,375.89	--
15	692,350.05	297,073.63	--
16	692,350.05	297,093.63	--
17	692,370.05	297,093.63	--
18	692,370.05	297,400.20	--
19	692,320.05	297,400.20	--
20	692,320.05	297,450.20	--
21	692,289.16	297,450.20	--
22	692,254.69	297,478.79	--
23	692,023.82	297,478.79	--
24	692,023.82	297,458.79	--
25	692,003.82	297,458.79	--
26	692,003.82	297,093.63	--
27	692,023.82	297,093.63	--
28	692,023.82	297,073.63	--

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
EXCAVATION - POND 1	TON	19,111
EXCAVATION - POND 2	TON	32,590
TRANSPORTATION	TON	51,701

BASIS OF ESTIMATE

MAX UNIT WT = 135 LB/C.F.
ESTIMATED % COMPACTION = 95%
ADJUSTED UNIT WT = 128.3 LB/C.F. OR 1.73 TON/C.Y.

CPP-67 DEMOLITION PLAN

SCALE: 1"=50.0
BASED ON SITE SPECIFIC DATUM

REGISTERED PROFESSIONAL ENGINEER 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 50.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN:
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/03/04

INEEL — BECHTEL BWXT IDAHO, LLC

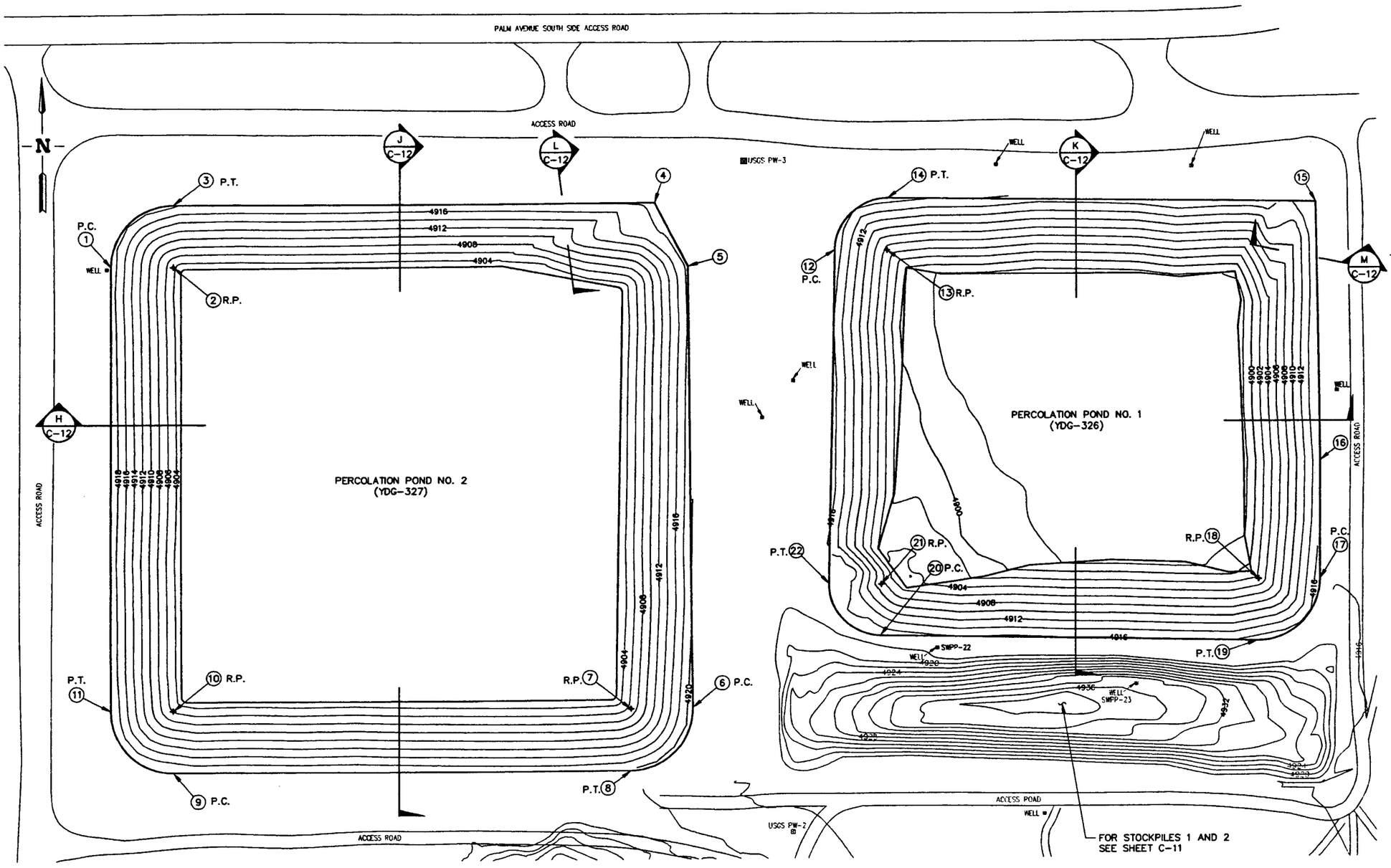
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-67 DEMOLITION PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER (AREA / TYPE / G / DISC)	DWG-626004	REV
D	01MF3	200 / 0100 / 02 / 090		

SCALE: NOTED — SHEET C-9

File: 626004.dwg
Path: K:\INTEC WAG-3 Group 3 Offer Soils Remedial Action\Controlled\DWGS\AFC Package
Date: 01/29/04 - 08:28 A.M. Layout Name: 67-Demo
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



LEGEND

49XX	EXISTING CONTOURS
49XX	BACKFILL CONTOURS
XX	COORDINATE TABLE MARK
P.C.	POINT OF CURVATURE
P.T.	POINT OF TANGENT
R.P.	RADIUS POINT

NOTES

1. THE TOPSOIL QUANTITIES ARE INCLUDED IN THE BACKFILL/COMPACTION QUANTITIES. ACTUAL PIT RUN GRAVEL REQUIRED WILL BE LESS BY THE TOPSOIL AMOUNT.

COORDINATE TABLE

DATUM: HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING	ELEVATION
1	692,343.95	296,344.86	--
2	692,343.94	296,404.86	--
3	692,403.94	296,404.66	--
4	692,405.49	296,870.61	--
5	692,344.21	296,902.52	--
6	691,911.50	296,908.59	--
7	691,910.66	296,848.60	--
8	691,850.66	296,848.72	--
9	691,849.73	296,404.90	--
10	691,909.73	296,404.78	--
11	691,909.74	296,344.78	--
12	692,359.11	297,044.91	--
13	692,358.36	297,094.90	--
14	692,408.35	297,095.48	--
15	692,403.56	297,511.85	--
16	692,150.26	297,516.13	--
17	692,034.60	297,516.13	--
18	692,034.60	297,456.13	--
19	691,974.61	297,455.14	--
20	691,980.63	297,089.15	--
21	692,030.63	297,089.98	--
22	692,031.38	297,039.98	--

CPP-67 FINISH PLAN

SCALE: 1"=50.0
BASED ON SITE SPECIFIC DATUM

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
BACKFILL / COMPACTION - POND 1	CY	15,588
BACKFILL / COMPACTION - POND 2	CY	23,762
TOPSOIL - POND 1 (SEE NOTE1)	CY	3952
TOPSOIL - POND 2 (SEE NOTE1)	CY	6052
REVEGETATION	ACRE	13

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO CLINTON O. KINGSFORD 12-04-04

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 50.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN:
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 01/05/04

INEEL BECHTEL BWXT IDAHO, LLC

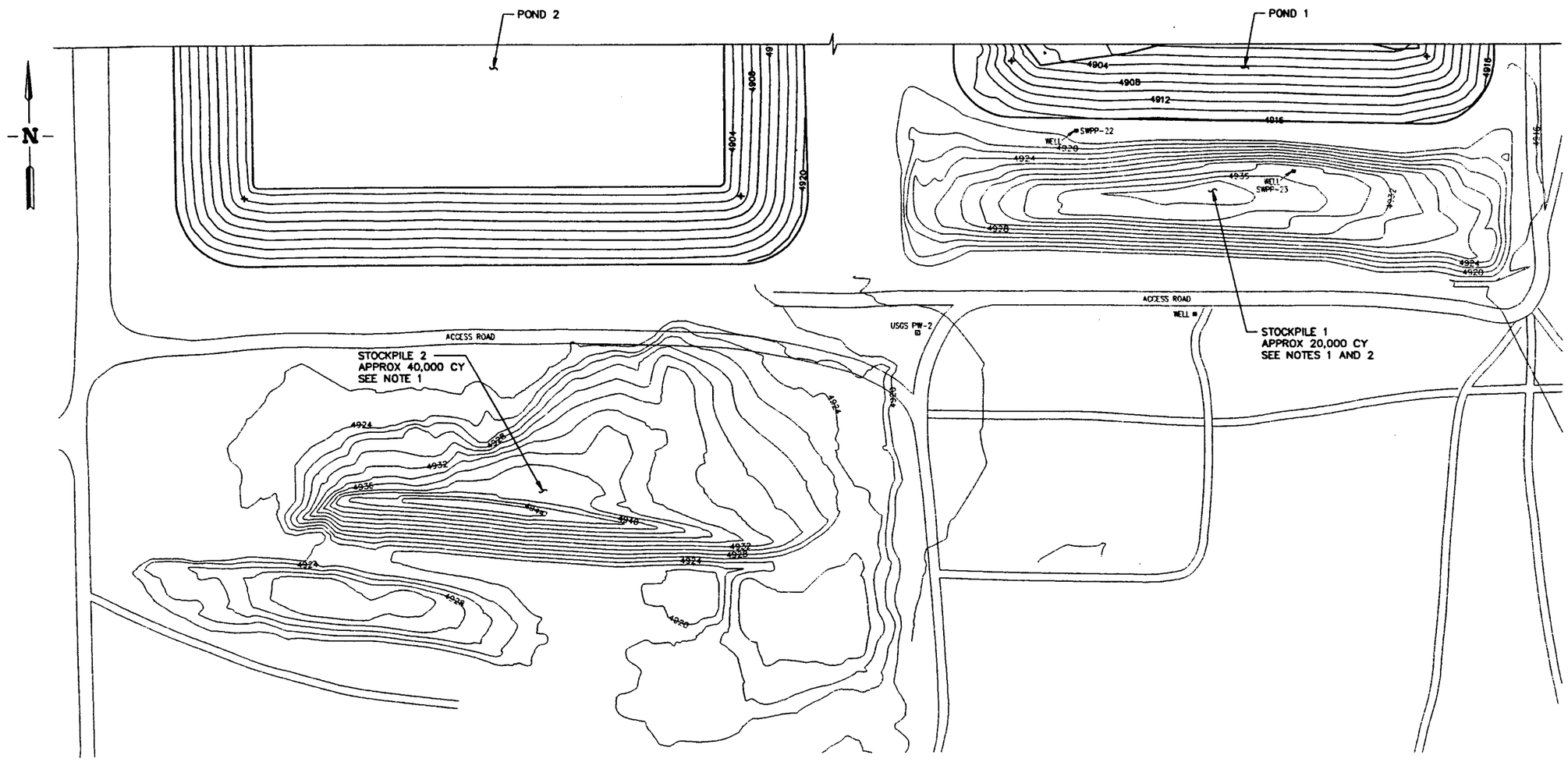
WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-67 FINISH PLAN

SIZE	CAGE CODE	INDEX CODE NUMBER AREA	TYPE	Q	ORG	DWG	REV
D	01MF3	200	0100	02	090	626005	

SCALE: NOTED SHEET C-10

File: 626005.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 - 08:27 AJM | Layout Name: 67-Install
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



STOCKPILES 1 AND 2 PLAN

SCALE: 1"=50.0

NOTES

1. USE STOCKPILES TO BACKFILL THE PONDS TO THE LINES AND GRADE SHOWN ON SHEET C-10 MINUS 6" FOR TOPSOIL. USE ALL MATERIAL FROM STOCKPILE NO. 1 BEFORE USING STOCKPILE NO. 2.
2. AFTER ALL MATERIAL IS REMOVED FROM STOCKPILE NO. 1, RESHAPE THE AREA PLACE 0.5' OF TOPSOIL AND SEED PER SPECIFICATIONS.
3. NO TOPSOIL REQUIRED ON STOCKPILE NO. 2.

BASIS OF ESTIMATE FOR BACKFILL

TOTAL BACKFILL REQUIRED FROM STOCKPILES	29,346 C.Y. (COMPACTED IN PLACE)
TOPSOIL FOR STOCKPILE 1	1,445 C.Y. (COMPACTED IN PLACE)

LEGEND

—— 49XX ——	EXISTING CONTOURS
—— 49XX ——	BACKFILL CONTOURS

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
2104
2-04-04
STATE OF IDAHO
CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
50' 30' 10' 0 50' SCALE: 1" = 50.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN: Joey Zimmerer
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04

INEEL BECHTEL BWXT IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
STOCKPILES 1 AND 2 PLAN

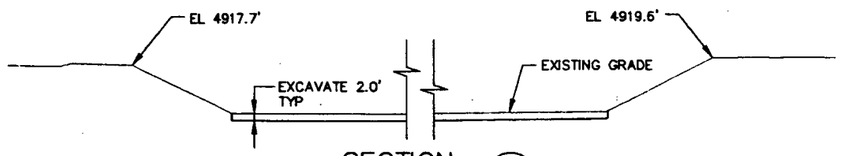
SIZE	CAGE CODE	INDEX CODE NUMBER: AREA	TYPE	Q	ORG	DWG-626006	REV
D	01MF3	200	0100	02	090		

SCALE: NOTED — SHEET C-11

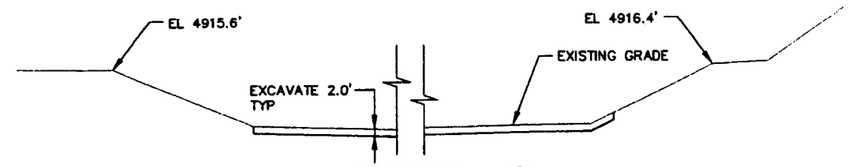
File: 626006.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 - 08:29 A.M. | Layout Name: Stockpiles
ID: KJ1
PKT-01-REV 3.3

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:

SECTION E C-9
SCALE: 1"=20.0'
(PONDS 1 AND 2)

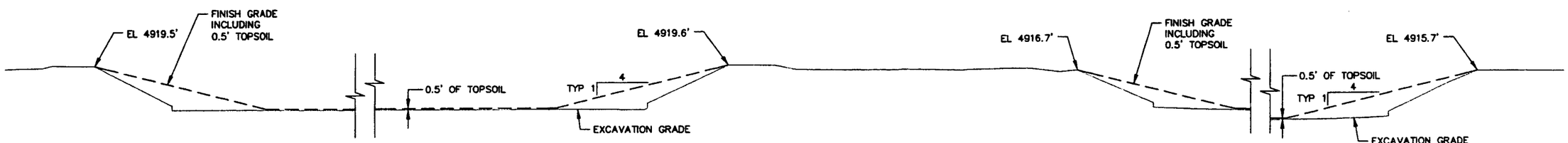


SECTION F C-9
SCALE: 1"=20.0'
(POND 2)

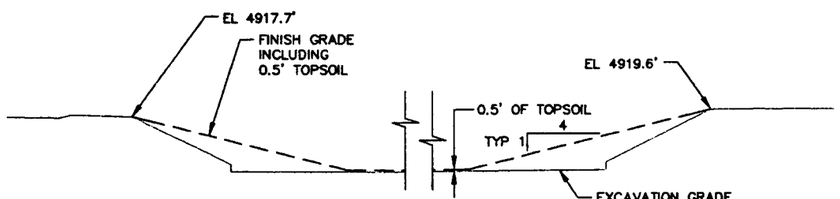


SECTION G C-9
SCALE: 1"=20.0'
(POND 1)

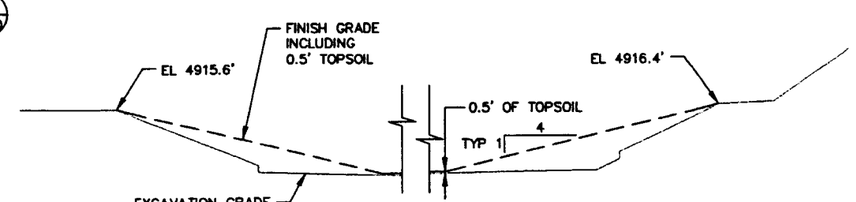
EXCAVATION SECTIONS FOR SITE CPP-67



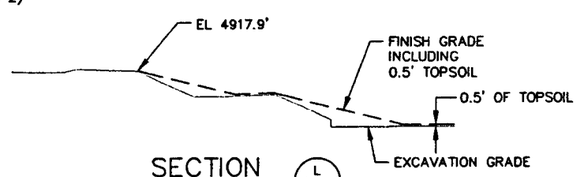
SECTION H C-10
SCALE: 1"=20.0'
(PONDS 1 AND 2)



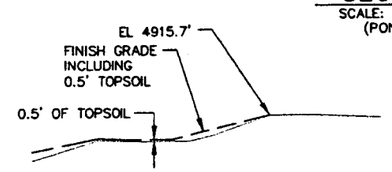
SECTION J C-10
SCALE: 1"=20.0'
(POND 2)



SECTION K C-10
SCALE: 1"=20.0'
(POND 1)



SECTION L C-10
SCALE: 1"=20.0'
(POND 1)



SECTION M C-10
SCALE: 1"=20.0'
(POND 2)

FILL SECTIONS FOR SITE CPP-67

NOTES

1. COVER SLOPES AND BOTTOM WITH 0.5' OF TOPSOIL.

LEGEND

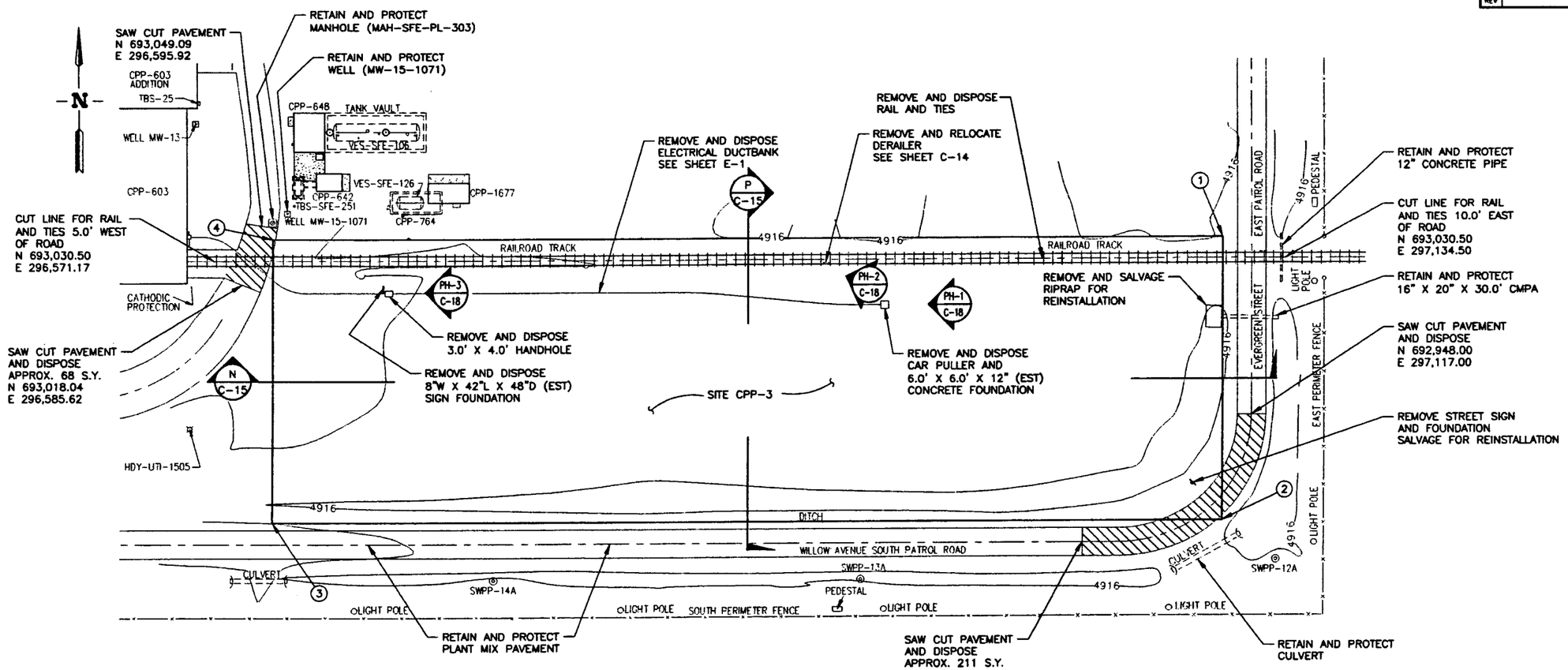
- EXISTING GRADE
- EXCAVATION GRADE
- FINISH GRADE LINE

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL — BECHTEL BWXT IDAHO, LLC
20' 10' 5' 0 20' SCALE: 1" = 20.0'	REQUESTER: N.K. ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN EXCAVATION AND FILL SECTIONS
	DESIGN: C.O. KINGSFORD	
	DRAWN:	
	PROJECT NO. 23083	
	SPCL CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 0200 TYP 9999 G 02 DISC 090 · DWG-626007 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED · SHEET C-12

File: 626007.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 – 08:38 A.M. | Layout Name: Layout1
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



CPP-3 DEMOLITION PLAN

SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM

LEGEND

49XX	EXISTING CONTOURS
49XX	EXCAVATION CONTOURS
(XX)	COORDINATE TABLE MARK

COORDINATE TABLE

DATUM:
HORIZONTAL: INTEC SITE SPECIFIC
VERTICAL: INTEC SITE SPECIFIC

NO.	NORTHING	EASTING
1	693,041.80	297,101.69
2	692,891.80	297,101.69
3	692,891.80	296,601.69
4	693,041.80	296,601.69

ESTIMATED QUANTITIES

ITEM	UNIT	QTY
EXCAVATION	TON	10,094
TRANSPORTATION	TON	10,094

BASIS OF ESTIMATE – UNIT WEIGHT

MAX UNIT WT = 135 LB/C.F.
ESTIMATED % COMPACTION = 95%
ADJUSTED UNIT WT = 123.8 LB/C.F. OR 1.73 TON/C.Y.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
2104
12-04-03
STATE OF IDAHO
CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS
	DESIGN: C.O. KINGSFORD
	DRAWN: ROB HERGESHEIMER
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 02/05/04

INEEL BECHTEL BWXT IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
CPP-3 DEMOLITION PLAN

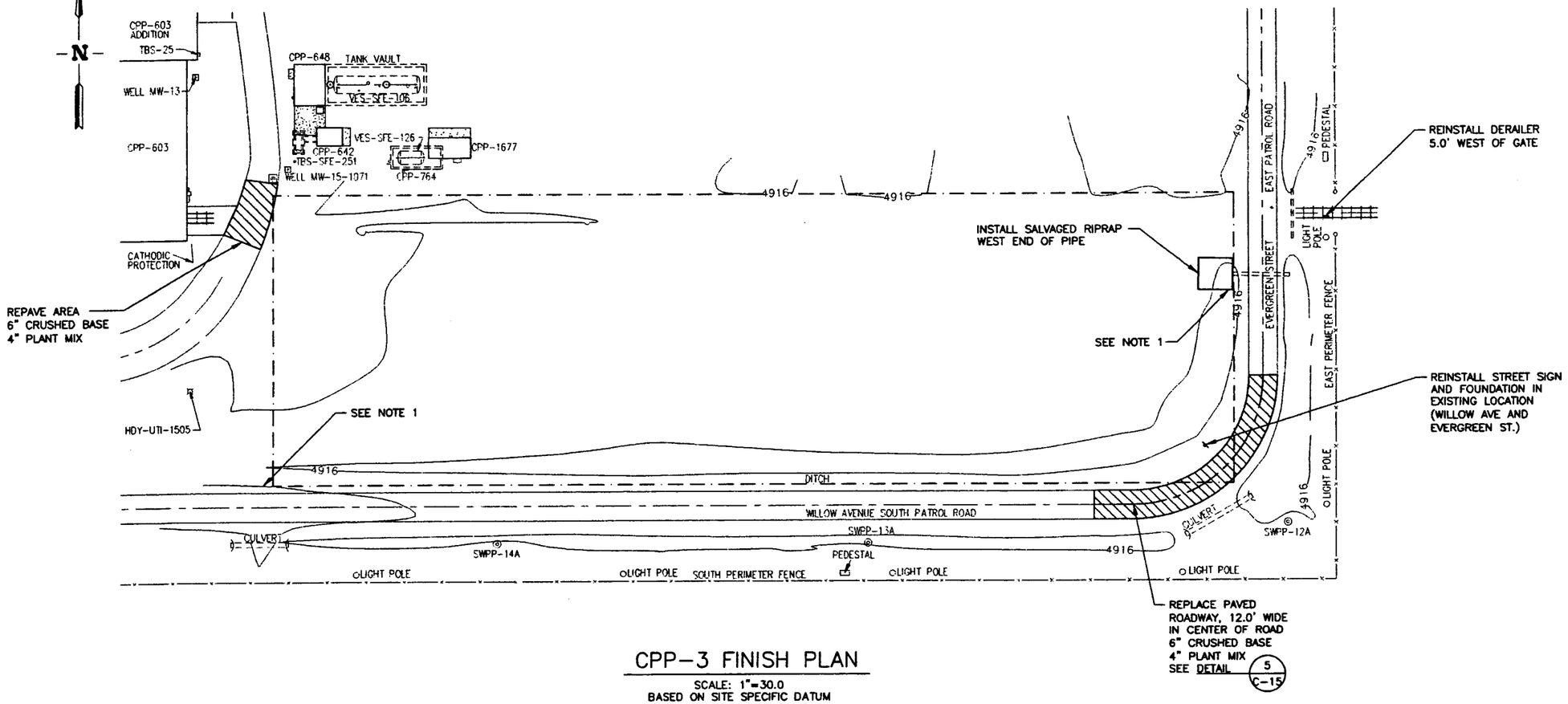
SIZE	CAGE CODE	INDEX CODE NUMBER				DWG-626008	REV
		AREA	TYPE	Q	DBC		
D	01MF3	200	0100	02	090		

SCALE: NOTED
SHEET C-13

PMT-01-REV 3.3

File: 626008.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 – 09:28 A.M. | Layout Name: CPP-3-Demo
ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



CPP-3 FINISH PLAN

SCALE: 1"=30.0
BASED ON SITE SPECIFIC DATUM

LEGEND

49XX	EXISTING CONTOURS
	REMEDIATION BOUNDARY

ESTIMATED QUANTITIES		
ITEM	UNIT	QTY
BACKFILL / COMPACTION	CY	5,835

NOTES

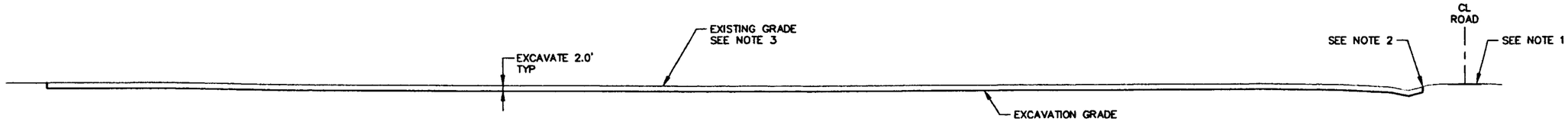
1. MATCH EXISTING GRADE OF DITCH.
2. REPAIR ROADWAY TO MATCH THE EXISTING SURFACE.

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
SCALE: 1" = 30.0'	REQUESTER: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN CPP-3 FINISH PLAN
	DESIGN: C.O. KINGSFORD	
	DRAWN: ROB HERGESHEIMER	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D; CAGE CODE 01MF3; INDEX CODE NUMBER AREA 200 TYPE 0100 Q 02 ORG 090; DWG-626009; REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED; SHEET C-14

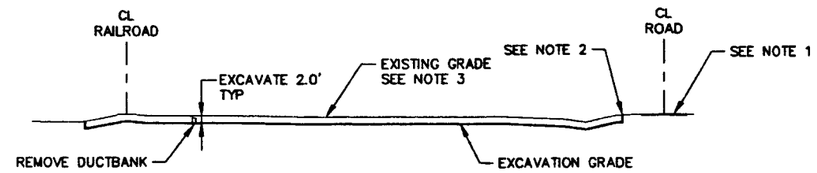
REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR 2104 STATE OF IDAHO CLINTON O. KINGSFORD

File: 626009.dwg Path: K:\INTEC WAG-3 Group 3 OU3-13 Soils Remedial Action\Controlled DWGS\AFC Package Date: 01/29/04 - 09:28 AM Layout Name: CPP-3-Install ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:

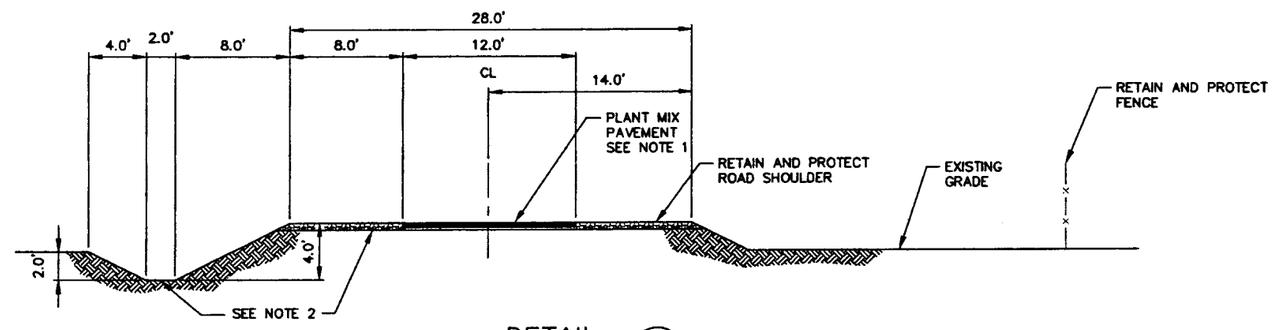


SECTION (N / C-13)
SCALE: 1"=20.0'
(SITE CPP-3)



SECTION (P / C-13)
SCALE: 1"=20.0'
(SITE CPP-3)

SECTIONS FOR SITE CPP-3



DETAIL (5 / C-14)
SCALE: 1"=5.0'

NOTES

1. RETAIN AND PROTECT PLANT MIX PAVEMENT EXCEPT AS NOTED ON SHEET C-13.
2. RECONSTRUCT ROAD SHOULDER AND DITCH WITH PIT RUN GRAVEL TO MATCH EXISTING GRADES.
3. BACKFILL TO EXISTING GRADE AFTER EXCAVATION IS COMPLETE WITH PIT RUN GRAVEL.

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
2104
N.O.T.S.
STATE OF IDAHO
CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 20.0'	REQUESTER: N.K. ROGERS
SCALE: 1" = 5.0'	DESIGN: C.O. KINGSFORD
	DRAWN: Chris Zendler
	PROJECT NO. 23083
	SPCL CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04

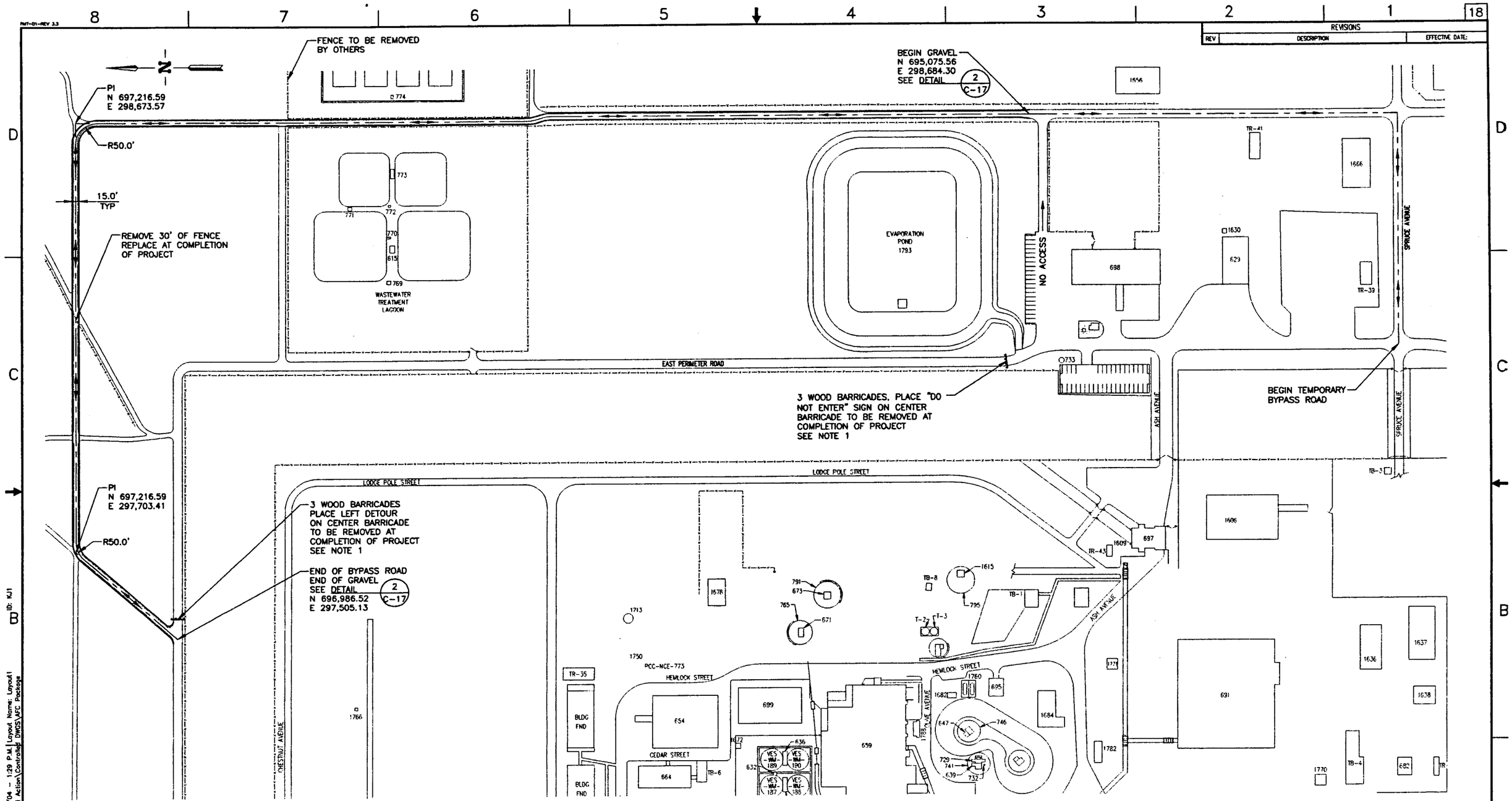
INEEL — BECHTEL BWXT IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
EXCAVATION SECTIONS AND DETAIL

SIZE	CAGE CODE	INDEX CODE NUMBER: AREA	TYPE	CL	ORIG	DWG-626010	REV
D	01MF3	0200	9999	02	090		

SCALE: NOTED — SHEET C-15

File: 626010.dwg
Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Contract DWGS\AFC Package
Date: 01/29/04 – 08:48 A.M. | Layout Name: Layout1
ID: KJ1
PMT-01-REV 3.4



NOTES

1. TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

BYPASS ROAD

SCALE: 1"=100.0'
BASED ON SITE SPECIFIC DATUM

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
SCALE: 1" = 100.0'	REQUESTER: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN BYPASS ROAD
	DESIGN: C.O. KINGSFORD	
	DRAWN: Carrie Loveller	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: TITLE II	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D · CAGE CODE 01MF3 · MDLT CODE NUMBER AREA 200 TYPE 0100 Q 02 ORIG 090 · DWG-626011 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/25/04	SCALE: NOTED · SHEET C-16

REVISIONS

REV	DESCRIPTION	EFFECTIVE DATE:

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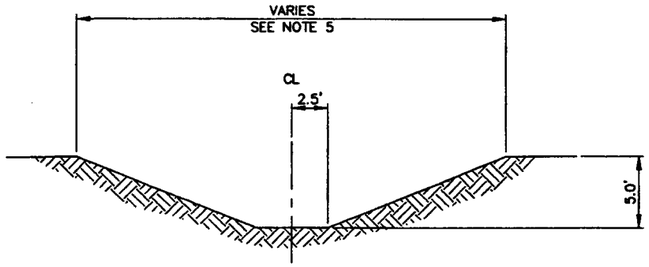
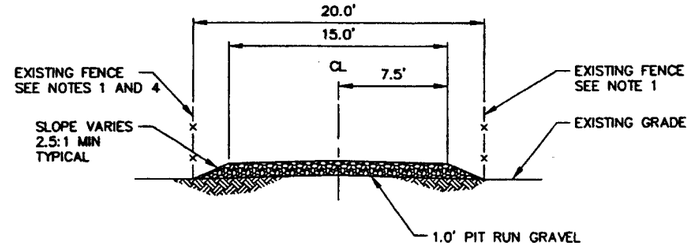
Date: 01/29/04 - 1:29 P.M. | Layout Name: Layout1 | ID: KJ1

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



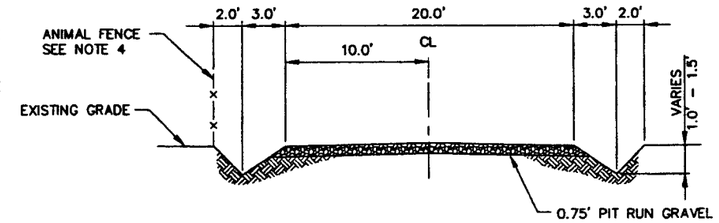
TYPICAL SECURITY DITCH DETAIL (1 TYP)
SCALE: 1"=5.0'
(EXISTING IS SIMILAR)



TYPICAL BYPASS ROAD DETAIL (2 C-16)
SCALE: 1"=5.0'

ESTIMATED QUANTITY (IN-PLACE)

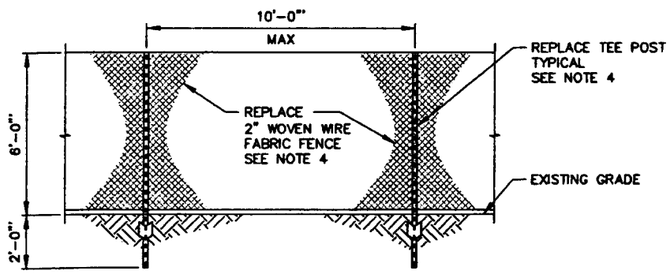
PIT RUN GRAVEL = 2,439 C.Y.



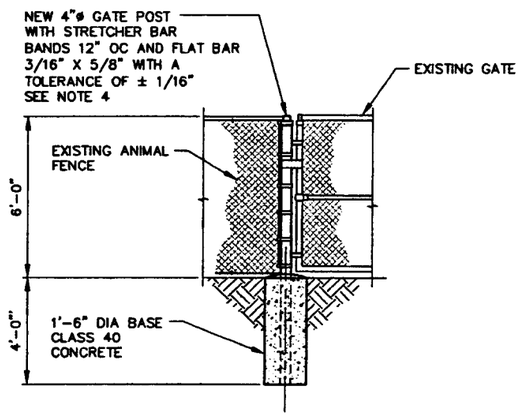
TYPICAL SECURITY ROAD DETAIL (3 TYP)
SCALE: 1"=5.0'

ESTIMATED QUANTITY (IN-PLACE)

SITE CPP-34A PIT RUN GRAVEL	634 C.Y.
SITE CPP-34B PIT RUN GRAVEL	215 C.Y.



TYPICAL ANIMAL FENCE DETAIL (4 TYP)
SCALE: 3/8"=1'-0"
SEE NOTES 3 AND 4



GATE POST DETAIL (6 C-7)
SCALE: 3/8"=1'-0"

NOTES

1. FENCE ONLY EXISTS AT ISOLATED LOCATIONS. FIELD VERIFY.
2. THE COST OF PIT RUN GRAVEL FOR ROAD SHALL BE INCLUDED IN THE BACKFILL FOR THE PITS.
3. REMOVE POSTS AND WIRE MESH. REPLACE POSTS AND MESH IN THE SAME LOCATION AFTER CONSTRUCTION.
4. DAMAGED POSTS AND FABRIC SHALL BE REPLACED WITH NEW AT SUBCONTRACTORS EXPENSE.
5. RECONSTRUCT SECURITY DITCH TO THE EXISTING LINES AND GRADES.

PROFESSIONAL ENGINEER - LAND SURVEYING REGISTERED 2104 2-04-04 STATE OF IDAHO CLINTON O. KINGSFORD

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 5.0'	REQUESTER: N.K. ROGERS
SCALE: 3/8" = 1'-0"	DESIGN: C.O. KINGSFORD
	DRAWN: Chris Zimmerman
	PROJECT NO. 23083
	SPCL CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 1/05/04

INEEL LOCKHEED MARTIN IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
DITCH, ROAD AND FENCE DETAILS

SIZE	CAGE CODE	INDEX CODE NUMBER: AREA	TYPE	Q	ORIG	DWG-	REV
D	01MF3	0200	9999	02	090	626012	

SCALE: NOTED SHEET C-17

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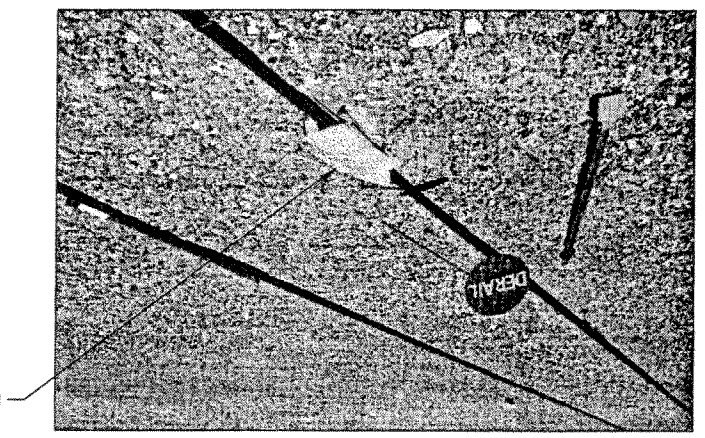
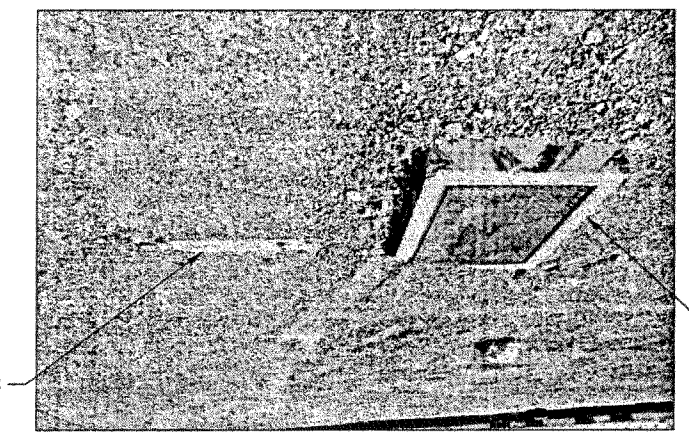
ID: KJ1



DERAILER

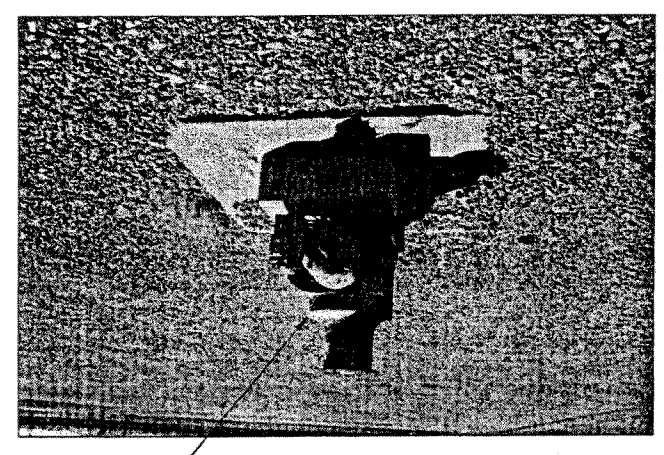
PHOTO PH-2 C-13
SCALE: NONE



HANDHOLE

SIGN FOUNDATION

PHOTO PH-3 C-13
SCALE: NONE



CAR PULLER, ELECTRIC MOTOR AND FOUNDATION

PHOTO PH-1 C-13
SCALE: NONE

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:

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WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN PHOTOS	SUBCONTRACT NO. N/A	REQUESTER: KIM ROGERS
		DESIGN: C.O. KINGSFORD
		DRAWN:
		PROJECT NO. 23083
		SPEC CODE
		FOR REVIEW/APPROVAL SIGNATURES SEE DWR NO. 108956
		DESIGN PHASE: AFC
		SAFETY CATEGORY: CG
		EFFECTIVE DATE: 2/05/04
		SCALE: NONE
REV	DWG-626013	SHEET C-18
	SIZE D CAGE CODE 01MF3 INDEX CODE NUMBER AREA 200 TYPE 9999 CI 02 DWG 090	

REGISTERED PROFESSIONAL ENGINEER - UNITED STATES OF AMERICA CLINTON O. KINGSFORD 2104 DATE 02-05-04

7le: 626013.dwg
7oth: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controlled DWGS\AFC Package
Date: 01/29/04 - 09:02 A.M. | Layout Name: D Size
ID: KJJ
PMT-01-REV 23

REVISIONS		
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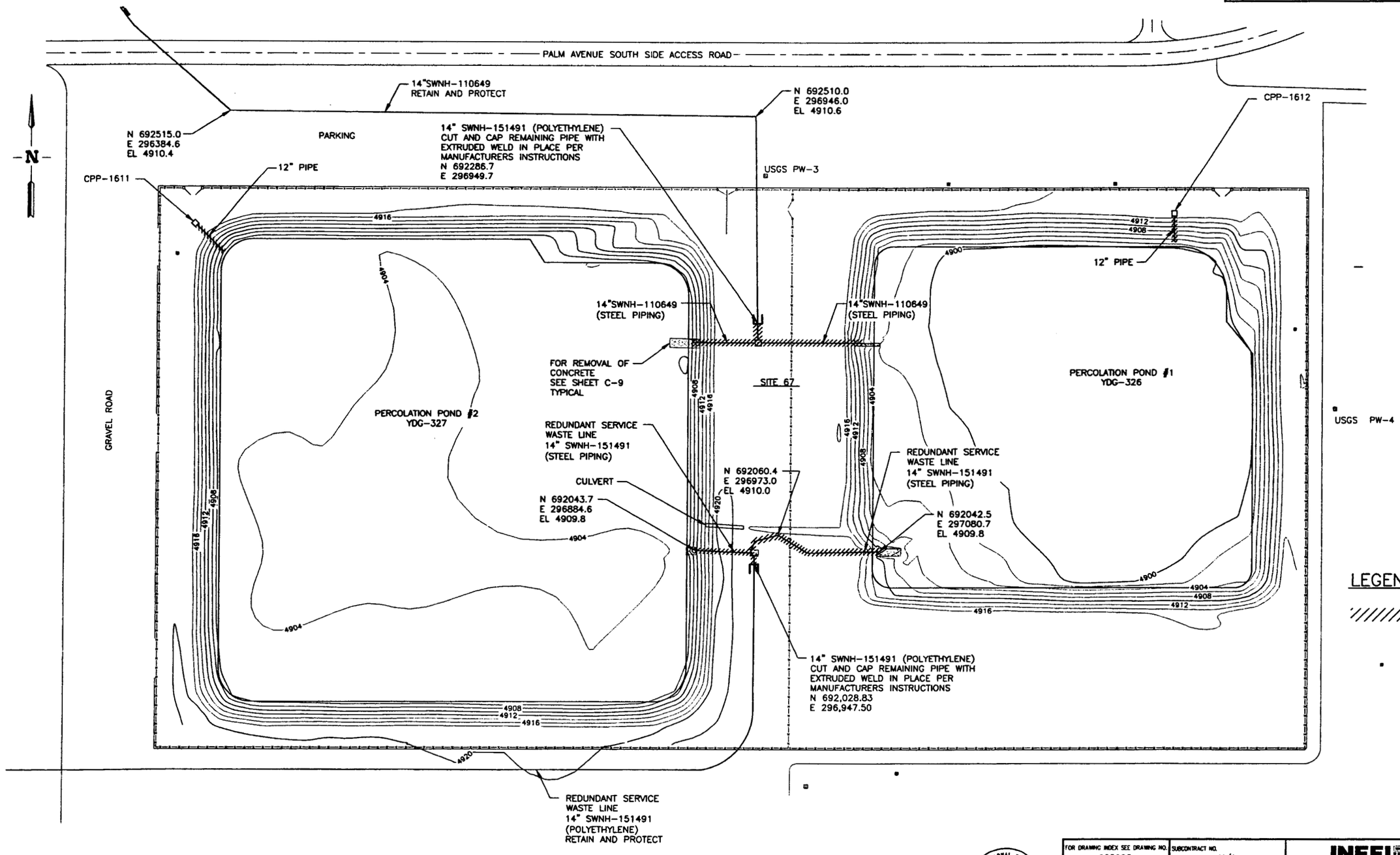

LEGEND

INDICATES EQUIPMENT OR MATERIAL TO BE REMOVED AND DISPOSED

WELL

SITE CPP-67

PIPING PLAN

SCALE: 1"=50.0

PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO EDWARD C. ANDERSON 2/04/04

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
50' 30' 10' 0 50' SCALE: 1" = 50.0'	REQUESTER: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN SITE CPP-67 PIPING PLAN
	DESIGN: R VAN VOAST	
	DRAWN: M CHRISTENSEN	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956	SIZE D; CAGE CODE 01MF3; MDCX DATA NUMBER AREA 200 / DISC 0100 / SYS 52 / DWG 090; DWG-626014; REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED; SHEET P-1

MADE FROM 058126, 058127,058128, 058129, 058159, 058160, 058161, 058162, 058163, 058164, 058165, 058166

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Date: 01/29/04 - 1:18 P.M. | Layout Name: cpp-67
ID: KJ1

REVISIONS		
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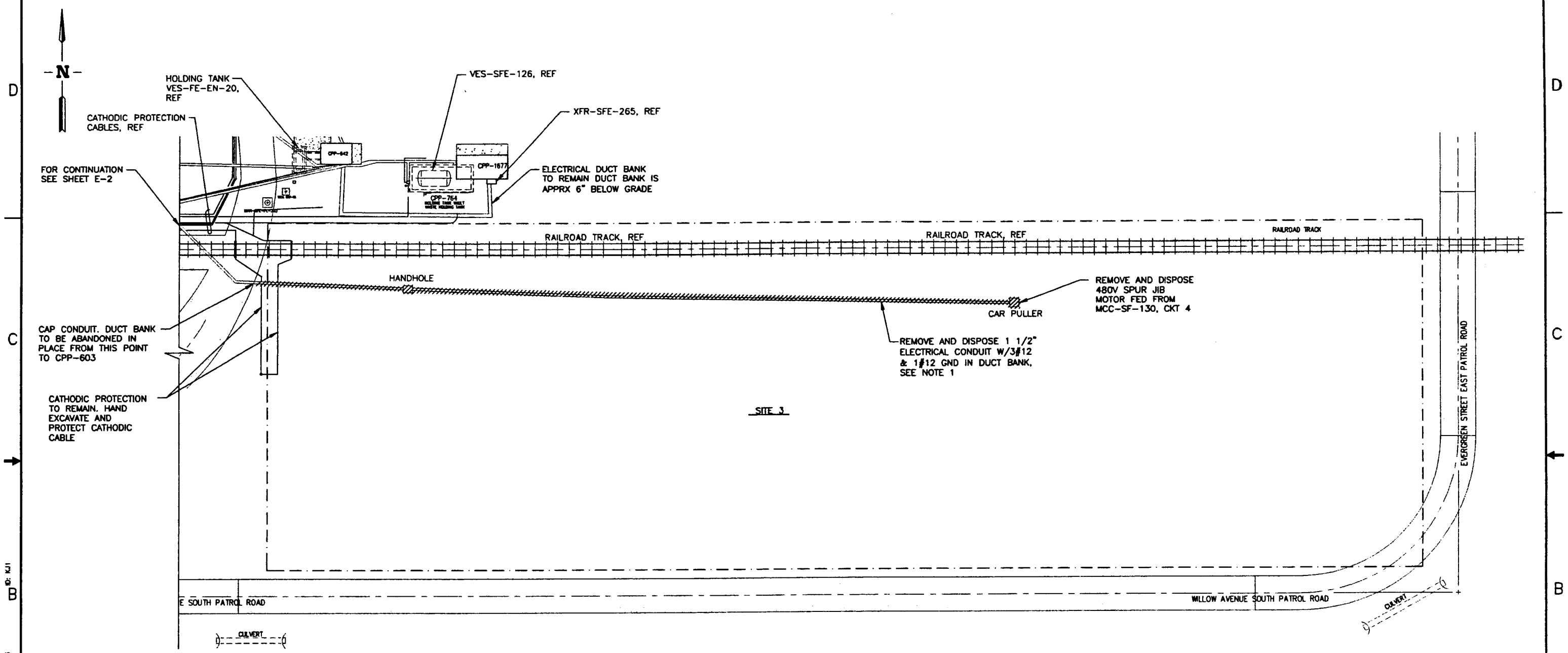


SITE CPP-3

ELECTRICAL PLAN

SCALE: 1"=20.0

NOTES

1. EQUIPMENT DESIGNATED BY ////// SHALL BE REMOVED. REMOVE WIRING BACK TO SOURCE OF POWER UNLESS OTHERWISE NOTED.

PROFESSIONAL ENGINEER REGISTERED 5674 2-4-04 STATE OF IDAHO JAMES D. ZOLYNSKI

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A
SCALE: 1" = 20.0'	REQUESTER: KIM ROGERS
	DESIGN: J ZOLYNSKI
	DRAWN: M CHRISTENSEN
	PROJECT NO. 23083
	SPEC CODE
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO. 108956
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04

INEEL BECHTEL BWXT IDAHO, LLC

WAG-3
OU 3-13 GROUP 3
OTHER SURFACE SOILS
REMEDIAL DESIGN
SITE CPP-3 ELECTRICAL PLAN

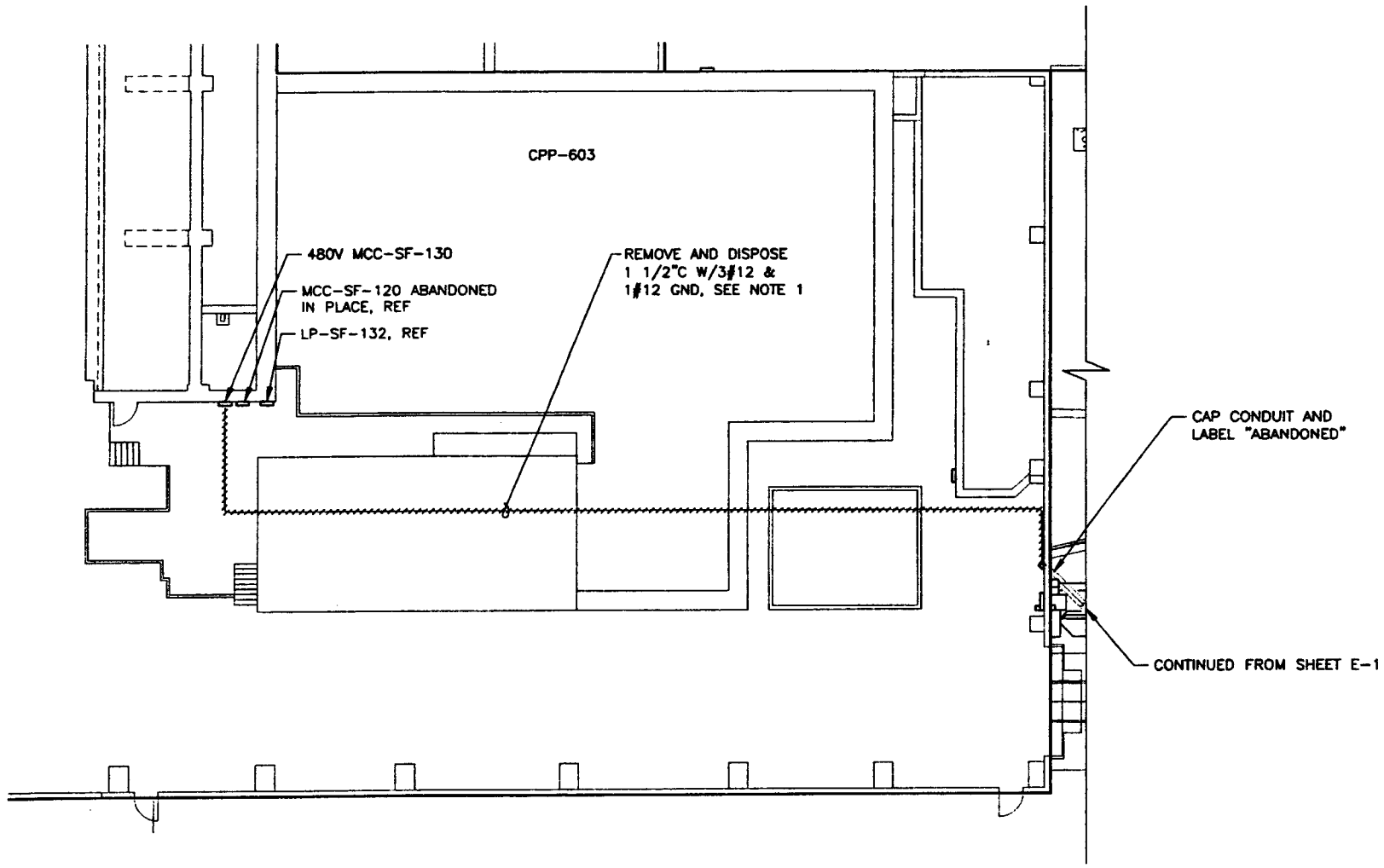
SIZE	CAGE CODE	INDEX MARK NUMBER AREA	TYPE	Q	ORG	DWG-626015	REV
D	01MF3	200	0400	10	090		

SCALE: NOTED SHEET E-1

MADE FROM 055345, 058340, 056535,

File: 626015.dwg Path: K:\INTEC WAG-3 Group 3 Other Soils Remedial Action\Controls\ DWGS\AFC Package Date: 01/29/04 - 09:11 A.M. | Layout Name: cpp-3 ID: KJI

REVISIONS		
REV	DESCRIPTION	EFFECTIVE DATE:



CPP-603 PARTIAL PLAN

SCALE: 1"=10.0'

NOTES

1. EQUIPMENT DESIGNATED BY ////// SHALL BE REMOVED AND DISPOSED. REMOVE WIRING AND CONDUIT BACK TO SOURCE OF POWER UNLESS OTHERWISE NOTED.

PROFESSIONAL ENGINEER REGISTERED 8614 2-4-04 STATE OF IDAHO JAMES D. ZOLYNSKI

FOR DRAWING INDEX SEE DRAWING NO. 625995	SUBCONTRACT NO. N/A	INEEL BECHTEL BWXT IDAHO, LLC
10' 5' 0 10' SCALE: 1" = 10.0'	REQUESTER: KIM ROGERS	WAG-3 OU 3-13 GROUP 3 OTHER SURFACE SOILS REMEDIAL DESIGN CPP-603 PARTIAL PLAN
	DESIGN: J ZOLYNSKI	
	DRAWN: M CHRISTENSEN	
	PROJECT NO. 23083	
	SPEC CODE	
DESIGN PHASE: AFC	FOR REVIEW/APPROVAL SIGNATURES SEE DAR NO 108956	SIZE D · CAGE CODE 01MF3 · INDEX CODE NUMBER AREA 200 TYPE 0603 Q 10 DISC 090 · DWG-626016 · REV
SAFETY CATEGORY: CG	EFFECTIVE DATE: 2/05/04	SCALE: NOTED · SHEET E-2

MADE FROM 055345, 058340, 056535, 056185, 056184

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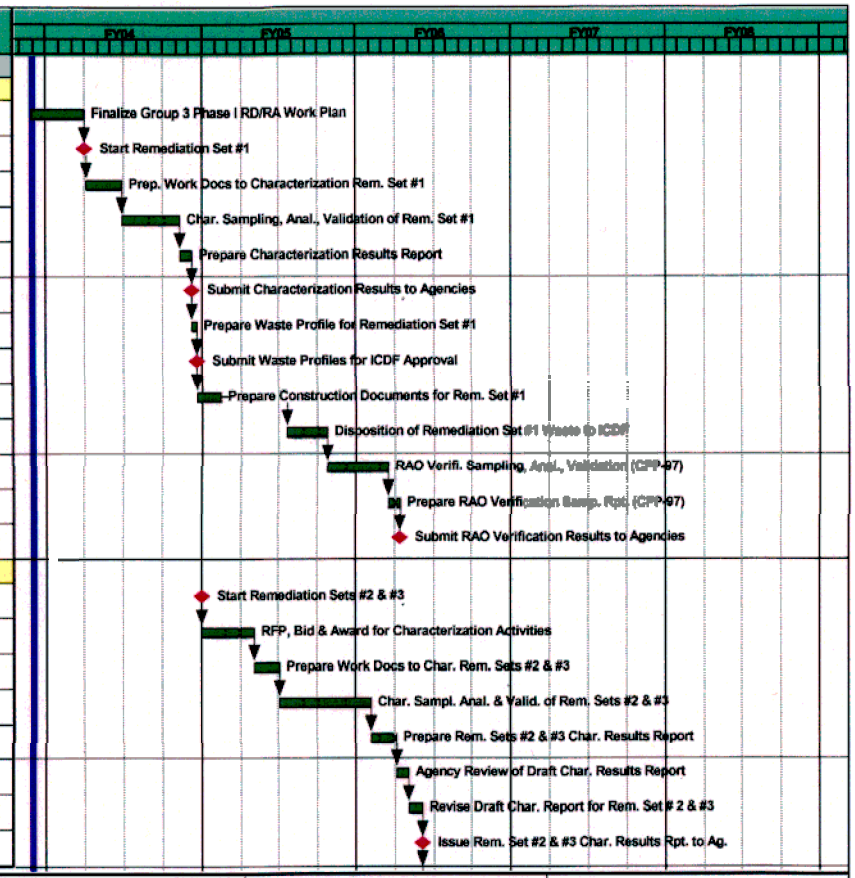
Date: 01/29/04 - 09:12 AM. Layout Name: CPP3-CONT
By: KJ1

Appendix C

Project Schedule

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
CPP-SP6 Excess Facil Disposit'n D&D				
Set #1				
A6C3100	Finalize Group 3 Phase I RD/RA Work Plan	124	30AUG03*	31DEC03
A6C3110	Start Remediation Set #1	0	01JAN04*	
A6C3120	Prep. Work Docs to Characterization Rem. Set #1	84	02JAN04	25MAR04
A6C3130	Char. Sampling, Anal., Validation of Rem. Set #1	135	26MAR04	09AUG04
A6C3142	Prepare Characterization Results Report	21	10AUG04	08SEP04
A6C3144	Submit Characterization Results to Agencies	0		08SEP04
A6C3150	Prepare Waste Profile for Remediation Set #1	10	09SEP04	18SEP04
A6C3152	Submit Waste Profiles for ICDF Approval	0		18SEP04
A6C3160	Prepare Construction Documents for Rem. Set #1	41	20SEP04	15NOV04
A6C3170	Disposition of Remediation Set #1 Waste to ICDF	69	18APR05*	25JUL05
A6C3172	RAO Verifi. Sampling, Anal., Validation (CPP-97)	98	26JUL05	13DEC05
A6C3175	Prepare RAO Verification Samp. Rpt. (CPP-97)	15	14DEC05	11JAN06
A6C3176	Submit RAO Verification Results to Agencies	0		11JAN06
Sets #2 & #3				
A6C3200	Start Remediation Sets #2 & #3	0	01OCT04*	
A6C3210	RFP, Bid & Award for Characterization Activities	80	01OCT04	31JAN05
A6C3220	Prepare Work Docs to Char. Rem. Sets #2 & #3	45	01FEB05	04APR05
A6C3230	Char. Sampl. Anal. & Valid. of Rem. Sets #2 & #3	150	05APR05	03NOV05
A6C3242	Prepare Rem. Sets #2 & #3 Char. Results Report	35	04NOV05	03JAN06
A6C3246	Agency Review of Draft Char. Results Report	30	04JAN06	02FEB06
A6C3247	Revise Draft Char. Report for Rem. Set # 2 & #3	30	03FEB06	04MAR06
A6C3244	Issue Rem. Set #2 & #3 Char. Results Rpt. to Ag.	0		06MAR06



Start Date	01AUG03	Early Bar	
Finish Date	02NOV08	Progress Bar	
Data Date	30AUG03	Critical Activity	
Run Date	03FEB04 13:36		

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3WPR

Sheet 1 of 2

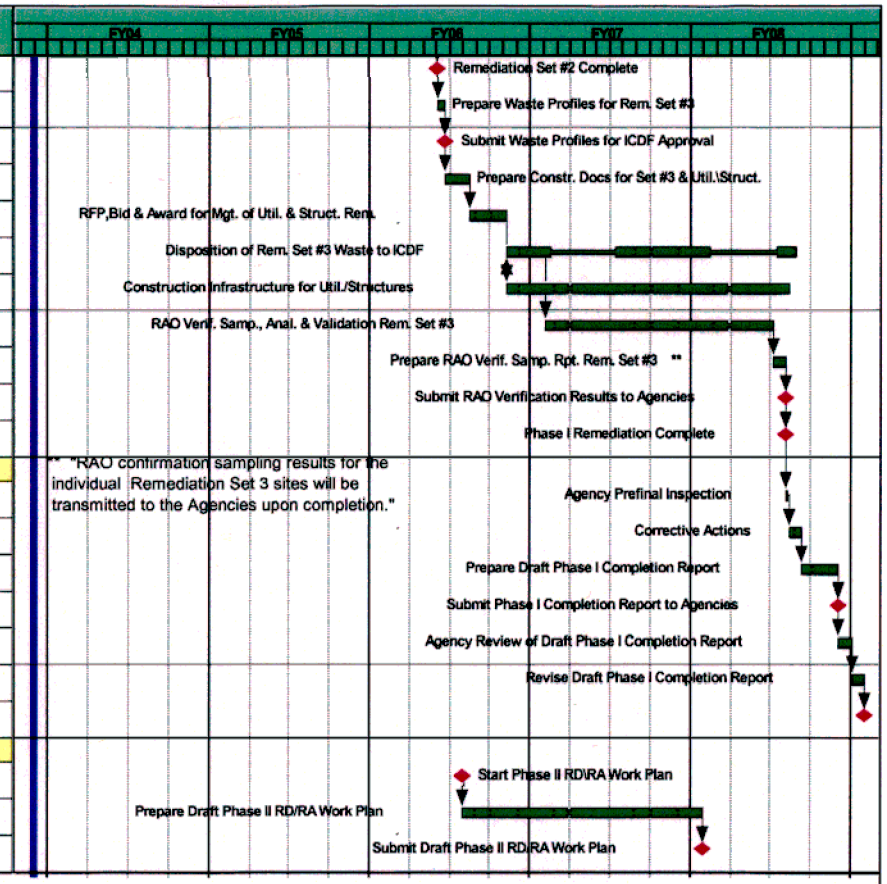
BBWI

WAG 3 - Group 3 RD/RA Work Plan

GROUP 3

RD\RA WORK PLAN

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
A6C3245	Remediation Set #2 Complete	0		06MAR06
A6C3250	Prepare Waste Profiles for Rem. Set #3	10	07MAR06	20MAR06
A6C3252	Submit Waste Profiles for ICDF Approval	0		20MAR06
A6C3260	Prepare Constr. Docs for Set #3 & Util.\Struct.	42	21MAR06	17MAY06
A6C3280	RFP,Bid & Award for Mgt. of Util. & Struct. Rem.	58	18MAY06	09AUG06
A6C3270	Disposition of Rem. Set #3 Waste to ICDF	250	10AUG06	30MAY08
A6C3300	Construction Infrastructure for Util./Structures	440	10AUG06	14MAY08
A6C3271	RAO Verif. Samp., Anal. & Validation Rem. Set #3	500	03NOV06	08APR08
A6C3275	Prepare RAO Verif. Samp. Rpt. Rem. Set #3 **	20	09APR08	06MAY08
A6C3277	Submit RAO Verification Results to Agencies	0		06MAY08
A6C3400	Phase I Remediation Complete	0		06MAY08
Phase I Project Closeout				
A6C3500	Agency Prefinal Inspection	3	07MAY08	09MAY08
A6C3510	Corrective Actions	20	12MAY08	09JUN08
A6C3520	Prepare Draft Phase I Completion Report	60	10JUN08	03SEP08
A6C3530	Submit Phase I Completion Report to Agencies	0		03SEP08
A6C3540	Agency Review of Draft Phase I Completion Report	30	04SEP08	03OCT08
A6C3550	Revise Draft Phase I Completion Report	30	04OCT08	02NOV08
A6C3560	Submit Final Phase I Completion Report	0		31OCT08
Phase II RD\RA Work Plan				
A6C3700	Start Phase II RD\RA Work Plan	0	02MAY06*	
A6C3710	Prepare Draft Phase II RD/RA Work Plan	378	02MAY06	31OCT07
A6C3720	Submit Draft Phase II RD/RA Work Plan	0		31OCT07



Start Date 01AUG03	Early Bar	3WPR	Sheet 2 of 2
Finish Date 02NOV08	Progress Bar	BBWI	GROUP 3
Data Date 30AUG03	Critical Activity	WAG 3 - Group 3 RD/RA Work Plan	RD\RA WORK PLAN
Run Date 03FEB04 13:36			

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Appendix D

OU 3-13 Project Cost Estimate

Project Summary Report

Project Name: *INTEC CERCLA Remediation of Other Surface Soils Group 3 Phase I Sets 1-3, Sub Project 6 RD/RA Work Plan*
Project Location: *INTEC*
Estimate Number: *2973-G*

Client: *R. L. Davison*
Prepared By: *J. Folker*
Estimate Type: *Project Support*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
C3100		Finalization of Phase I RDRA Work Plan	$104,489	$0	$16,718	16.00%	$121,207
C3100.1		--Finalization of RD/RA Work Plan	$104,489	$0	$16,718	16.00%	$121,207
C3130		Characterization of Rem. Set #1	$309,802	$9,025	$50,857	16.00%	$368,714
C3130.1		--Prep. Of Work Docs For Charac. Of Set 1	$39,111	$1,017	$6,420	16.00%	$46,548
C3130.2		--Perform Characterization/Profiles Of Set 1 Sites	$263,796	$6,829	$43,305	16.00%	$313,960
C3130.3		--Prepare Rem. Set #1 Characterization Results Report	$6,895	$179	$1,132	16.00%	$8,206
C3170		Remediation of Rem. Set #1	$231,163	$11,330	$38,799	16.00%	$281,292
C3170.1		--Prepare Construction Documents For Rem Set 1	$39,111	$1,017	$6,420	16.00%	$46,548
C3170.2		--Disposition Of Rem Set 1 Waste To ICDF	$192,052	$10,313	$32,378	16.00%	$234,744
C3172		RAO Verification Activities for Rem. Set #1	$45,329	$0	$7,253	16.00%	$52,582
C3172.1		--RAO Verification Sampling for CPP-97	$37,573	$0	$6,012	16.00%	$43,585
C3172.2		--Prepare RAO Verification Sampling Report (CPP-97)	$7,756	$0	$1,241	16.00%	$8,997
C3230		Characterization of Rem. Set #2	$847,093	$0	$135,535	16.00%	$982,628
C3230.1		--Procurement Of Char. S/C For Set 2	$61,923	$0	$9,908	16.00%	$71,830
C3230.2		--Characterization/Waste Profiles of Rem Set 2	$785,170	$0	$125,627	16.00%	$910,797
C3270		Remediation of Rem. Set #3	$5,563,634	$298,767	$937,984	16.00%	$6,800,385
C3270.1		--Prepare Construction Documents for Rem Set 3	$74,341	$3,992	$12,533	16.00%	$90,867
C3270.2		--Rem Set #3 Waste to ICDF	$5,134,471	$275,721	$865,631	16.00%	$6,275,823
C3270.3		--Procurement for Utilities/Structures Restoration	$60,998	$3,276	$10,284	16.00%	$74,558

Project Summary Report

Project Name: *INTEC CERCLA Remediation of Other Surface Soils Group 3 Phase I Sets 1-3, Sub Project 6 RD/RA Work Plan*
Project Location: *INTEC*
Estimate Number: *2973-G*

Client: *R. L. Davison*
Prepared By: *J. Folker*
Estimate Type: *Project Support*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
C3270.4		--Utilities/Structures S/C Work for Rem Set 3	$293,824	$15,778	$49,536	16.00%	$359,138
C3271		RAO Verification Activities for Rem. Set #3	$203,847	$27,234	$36,973	16.00%	$268,054
C3271.1		--RAO Confirmation Sampling for Rem. Set #3	$183,933	$24,574	$33,361	16.00%	$241,868
C3271.2		--Prepare RAO Confirmation Sampling Report for Rem. Set #3	$19,914	$2,660	$3,612	16.00%	$26,186
C3560		Phase I Project Closeout Activities	$66,469	$8,880	$12,056	16.00%	$87,406
C3560.1		--Agency Prefinal Inspection/Corrective Actions	$25,733	$3,438	$4,667	16.00%	$33,839
C3560.2		--Prepare and Submit Phase I Completion Report to Agencies	$40,736	$5,442	$7,389	16.00%	$53,567
1000		Project Management	$1,719,924	$126,725	$295,464	16.00%	$2,142,112
GAPIF		BBWI PF AND G&A	$11,044	$1,182	$1,956	16.00%	$14,182
Total		SUB PROJECT 6, GROUP 3, PHASE I (SETS 1-3)	$9,102,795	$482,173	$1,533,595	16.00%	$11,118,562

Appendix E

Prefinal Inspection Checklist

Draft Phase I Prefinal Checklist

Inspection Items		Incomplete	Complete	
Item	**RD/RA Section**			**Comments/Corrective Actions**
Verify GWSCREEN modeling has been performed for excavations reaching 10 ft below grade.	5.1.2			
Confirm the soils for each site requiring characterization, have been sampled and sent for analysis.	5.3			
Review the analytical data for waste in remediation sites CPP-92, 98, and 99 meet applicable Land Disposal Requirements.	5.3.2			
Verify that the Phase I excavations have been backfilled and graded consistent with the remedial design.	5.5			
Verify that the Phase I electrical modifications have been performed.	5.6			
Compare actual utility lines capped or demolished versus those anticipated in the original job scope.	5.6.1.1			
Verify that equipment used to complete the Phase I remediation has been decontaminated or, if decontamination is not possible, removed to the SSSTF Contaminated Equipment Pad.	6.4			
Review any change in scope orders to determine if there are significant impacts to the Work Plan.	6.9			

Inspection Items

Item	RD/RA Section	Incomplete	Complete	Comments/Corrective Actions
Verify status of any accumulated waste generated during the Phase I work: - Is this waste being properly managed? - Are all waste tracking records available? - Verify that any off-site facility planned for treatment/disposal has an acceptability determination in accordance with 40 CFR 300.440.	WMP – Section 3			
Any spills and releases that may have occurred during the course of the project were properly reported and have been appropriately cleaned up.	HASP Section 10			

Additional Comments:	Concurrence Date
	US EPA:
	IDEQ:
	NE-ID:
	BBWI:

Attachment 1

Operable Unit 3-13, Group 3, Other Surface Soils Remediation Sets 1-3 (Phase I) Field Sampling Plan, DOE/ID-11091

TO VIEW ATTACHMENT 1 SEE:

DOE/ID-11091, REV.00

Attachment 2

Analysis of Potential Air Emissions from Excavation of WAG 3 Soil Contamination Sites

EDF-3902

TO VIEW ATTACHMENT 2 SEE:

EDF-3902, REV.00

Attachment 3

Operable Unit 3-13, Group 3, Other Surface Soils Remediation Sets 1-3 (Phase I) Characterization Plan, DOE/ID-11090

TO VIEW ATTACHMENT 3 SEE:

DOE/ID-11090, REV.00

Attachment 4

Operable Unit 3-13, Group 3, Other Surface Soils Remediation Sets 1-3 (Phase I) Health and Safety Plan, INEEL/EXT-03-00628

TO VIEW ATTACHMENT 4 SEE:

INEEL/EXT-03-00628, REV.00

Attachment 5

Earthwork Quantities for Subproject 6, OU 3-13, Group 3—Other Surface Soils Project

EDF-3778

TO VIEW ATTACHMENT 5 SEE:

EDF-3778, REV.00

Attachment 6

Operable Unit 3-13, Group 3, Other Surface Soils Remediation Sets 1-3 (Phase I) Waste Management Plan, DOE/ID-11092

TO VIEW ATTACHMENT 6 SEE:

DOE/ID-11092, REV.00