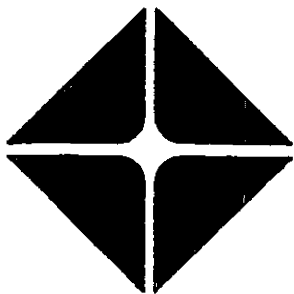


File on eDOCs Yes No
Site Name Sinclair Refining
Site No. 902003
County Allegheny
Town Wellsville
Foitable Yes No
File Name Documents / Reports
Scanned & eDOC

report. HW 902003. 1993-09. Remedial Action -

CELA - Vol 6.



Prepared for

Atlantic Richfield Company

515 South Flower Street
Los Angeles, California 90071

**REMEDIAL ACTION REPORT
CENTRAL ELEVATED LANDFILL AREA**

**SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK**

VOLUME VI

Prepared by



GEOSYNTEC CONSULTANTS

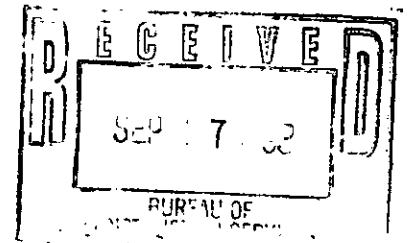
5775 Peachtree Dunwoody Road
Atlanta, Georgia 30342

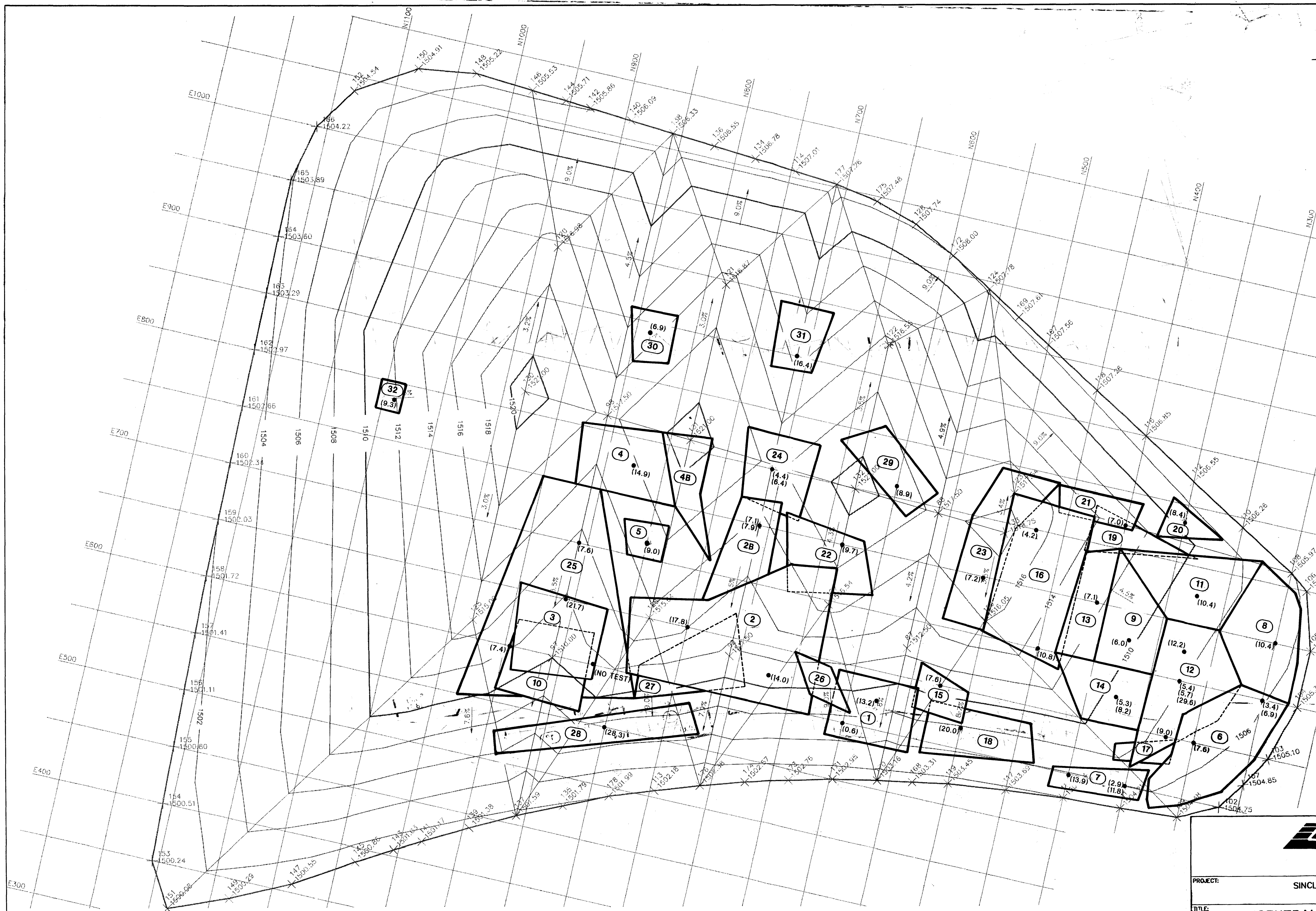
Project Number: GQ3201

September 1993

APPENDIX J

RECORD DRAWINGS





POINT	NORTHING	EASTING	ELEVATION
87	560.24	674.95	1512.50
88	560.24	794.95	1517.50
92	708.86	633.89	1511.50
93	708.86	803.89	1517.50
97	857.70	597.83	1510.00
98	857.70	812.83	1517.50
102	266.30	600.00	1504.75
103	234.19	650.00	1505.10
104	219.52	700.00	1505.35
105	219.11	750.00	1505.58
106	233.91	800.00	1505.87
107	250.00	823.57	1504.85
108	250.00	812.85	1505.87
109	300.00	583.50	1504.48
110	300.00	841.81	1506.26
111	350.00	580.57	1504.21
112	350.00	870.97	1506.55
113	746.15	505.76	1502.18
114	746.15	1055.85	1507.01
115	400.00	578.70	1503.94
116	400.00	900.13	1508.85
117	450.00	574.08	1503.68
118	450.00	929.29	1507.26
119	500.00	568.58	1503.45
120	932.06	945.08	1516.88
121	783.33	946.14	1516.87
122	634.60	927.20	1516.55
123	500.00	826.80	1517.54
124	560.23	993.58	1507.78
125	932.06	814.52	1515.00
126	783.33	956.58	1515.84
127	634.60	696.64	1516.54
128	634.60	1034.18	1507.74
129	500.00	713.55	1516.55
130	932.06	817.30	1521.00
131	783.33	808.36	1521.00
132	634.60	789.42	1521.00
133	500.00	791.33	1518.75
134	783.33	1058.28	1506.78
135	820.51	475.07	1501.79
136	870.51	1060.86	1506.55
137	857.70	457.69	1501.59
138	857.70	1083.47	1506.33
139	894.88	438.34	1501.38
140	894.88	1066.09	1506.09
141	932.06	417.72	1501.17
142	932.06	1068.69	1505.86
143	954.22	405.43	1501.03
144	954.22	1070.24	1505.71
145	984.22	387.92	1500.86
146	984.22	1072.34	1505.53
147	1034.22	357.30	1500.55
148	1034.22	1075.78	1505.22
149	1084.22	333.28	1500.29
150	1084.22	1068.69	1504.91
151	1134.22	312.84	1500.08
152	1134.22	1037.38	1504.54
153	1156.08	350.00	1500.24
154	1157.93	400.00	1500.51
155	1159.78	450.00	1500.80
156	1161.63	500.00	1501.11
157	1163.48	550.00	1501.41
158	1165.33	600.00	1501.72
159	1166.18	650.00	1502.03
160	1166.98	700.00	1502.34
161	1167.81	750.00	1502.66
162	1168.63	800.00	1502.97
163	1169.46	850.00	1503.29
164	1170.28	900.00	1503.60
165	1170.70	950.00	1503.89
166	1159.24	1000.00	1504.22
167	500.00	958.45	1507.56
168	530.12	583.16	1503.31
169	530.12	976.02	1507.81
170	580.23	557.74	1503.16
171	597.41	550.28	1502.95
172	597.41	1014.66	1508.00
173	634.60	540.50	1502.76
174	671.78	530.65	1502.57
175	671.78	1046.03	1507.48
176	708.86	518.78	1502.38
177	708.86	1052.66	1507.26
178	783.33	492.44	1501.99



- LEGEND**
- 29 STABILIZATION AREA REFERENCE NUMBER
 - SHELBY TUBE SAMPLING LOCATION
 - (5.3) UNCONFINED COMPRESSIVE STRENGTH (psi)

- NOTES:**
- REVISIONS TO THE CENTRAL ELEVATED LANDFILL AREA CAP GRADING PLAN ARE SHOWN ON THIS DRAWING. THIS DRAWING SUPPLEMENTS THE INFORMATION SHOWN ON DRAWING AR-14 PREPARED BY EBASCO SERVICES INCORPORATED.
 - CONTOURS ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION.

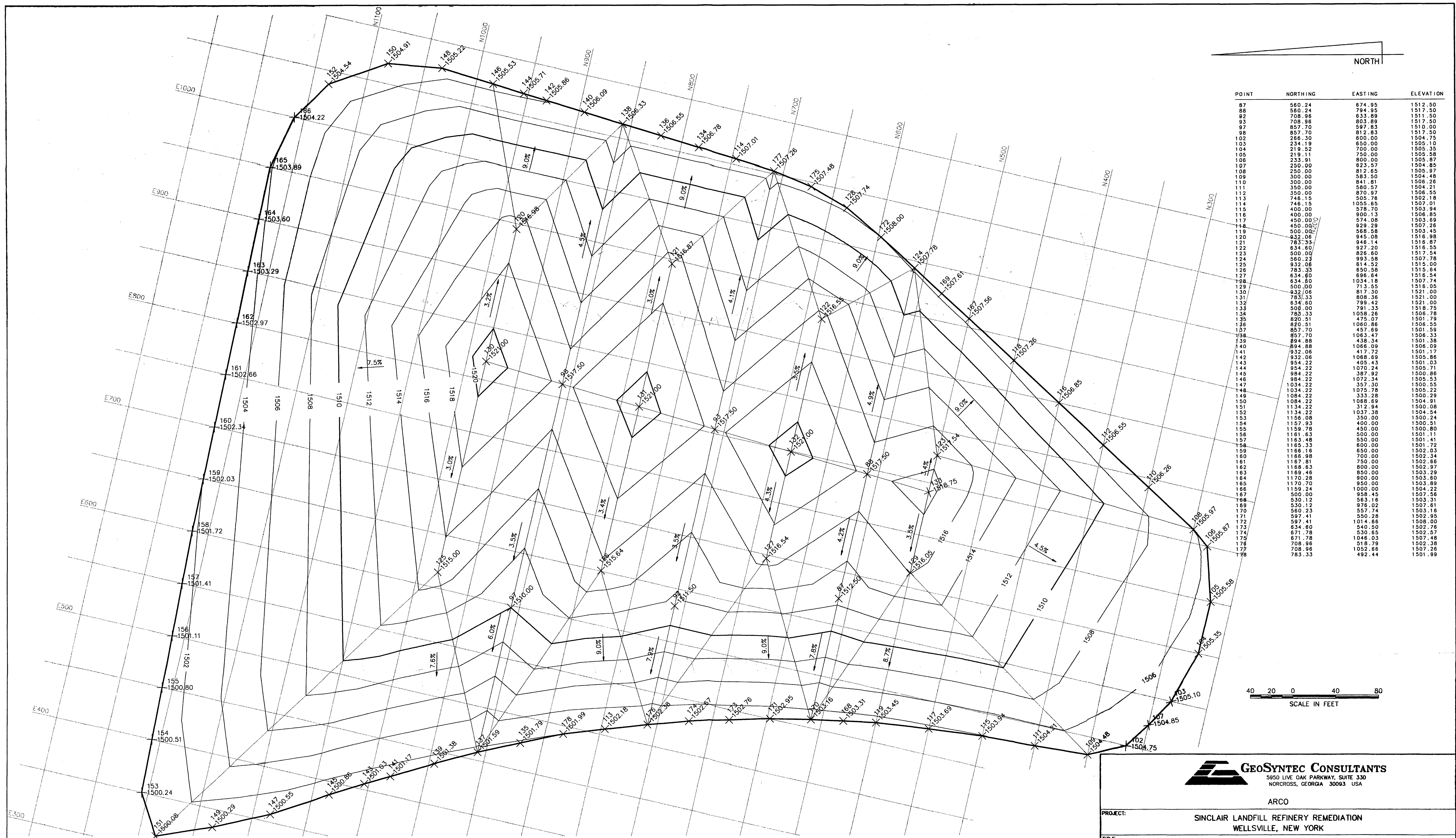
5950 LIVE OAK PARKWAY, SUITE 330
NORCROSS, GEORGIA 30093 USA

ARCO

PROJECT: SINCLAIR LANDFILL REFINERY REMEDIATION
WELLSVILLE, NEW YORK

TITLE: CENTRAL ELEVATED LANDFILL AREA (CELA)
STABILIZATION AREAS

MARK	DATE	REVISION	BY	APPROVED
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION UNLESS SEALED.				
DATE: 13 SEPTEMBER 1993		SCALE: 1" = 40'		
DESIGN BY: RBN		JOB NO.: GQ3243-02		
DRAWN BY: JW		FILE NO.: 3243-002 /DF		
CHECKED BY: JFB		DOCUMENT NO.:		
REVIEWED BY: RBN		DRAWING NO.:		
APPROVED BY: JFB		1 OF 1		



POINT	NORTHING	EASTING	ELEVATION
87	560.24	674.85	1512.50
88	560.24	794.95	1517.50
89	708.96	633.89	1511.50
90	708.96	803.89	1517.50
91	857.70	597.83	1510.00
92	857.70	812.83	1517.50
93	266.30	600.00	1504.75
94	234.19	650.00	1505.10
95	219.52	700.00	1505.35
96	219.11	750.00	1505.58
97	233.91	800.00	1505.87
98	250.00	823.57	1504.85
99	250.00	812.65	1505.97
100	300.00	583.50	1504.48
101	300.00	841.81	1506.28
102	350.00	580.57	1504.21
103	350.00	870.97	1506.55
104	746.15	505.76	1502.18
105	746.15	1055.65	1507.01
106	400.00	578.70	1503.94
107	400.00	900.13	1506.85
108	450.00	574.08	1503.69
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110	500.00	568.58	1503.45
111	500.00	945.08	1516.98
112	753.33	811.14	1516.87
113	634.60	927.20	1516.55
114	500.00	826.60	1517.54
115	560.23	993.58	1517.54
116	932.08	614.52	1515.00
117	783.33	650.58	1515.64
118	634.60	1516.54	1516.54
119	634.60	1034.18	1507.74
120	500.00	713.55	1516.05
121	932.08	817.30	1521.00
122	783.33	808.36	1521.00
123	634.60	799.42	1521.00
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126	820.51	475.07	1501.79
127	820.51	1060.86	1506.55
128	857.70	457.69	1501.59
129	857.70	1063.47	1506.33
130	894.88	436.34	1501.38
131	894.88	1066.09	1506.09
132	932.08	417.72	1501.17
133	932.08	1068.69	1505.86
134	954.22	405.43	1501.03
135	954.22	1070.24	1505.71
136	984.22	387.92	1500.86
137	984.22	1072.34	1505.53
138	1034.22	357.30	1500.55
139	1034.22	1075.78	1505.22
140	1084.22	333.28	1500.29
141	1084.22	1088.69	1504.91
142	1134.22	312.94	1500.08
143	1134.22	1037.38	1504.54
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147	1161.63	500.00	1501.11
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151	1168.98	700.00	1502.34
152	1167.81	750.00	1502.66
153	1168.63	800.00	1502.97
154	1169.46	850.00	1503.29
155	1170.28	900.00	1503.60
156	1170.70	950.00	1503.89
157	1159.24	1000.00	1504.22
158	500.00	958.45	1507.56
159	530.12	563.16	1503.31
160	530.12	976.02	1507.61
161	560.23	557.74	1503.16
162	597.41	550.28	1502.95
163	597.41	1014.86	1508.00
164	634.60	540.50	1502.76
165	671.78	530.65	1502.57
166	671.78	1046.03	1507.48
167	708.96	518.79	1502.38
168	708.96	1052.66	1507.26
169	783.33	492.44	1501.99

- NOTES:
- REVISIONS TO THE CENTRAL ELEVATED LANDFILL AREA CAP GRADING PLAN ARE SHOWN ON THIS DRAWING. THIS DRAWING SUPPLEMENTS THE INFORMATION SHOWN ON DRAWING AR-14 PREPARED BY EBASCO SERVICES INCORPORATED.
 - CONTOURS ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION.



GeoSYNTEC CONSULTANTS
5950 LIVE OAK PARKWAY, SUITE 330
NORCROSS, GEORGIA 30093 USA

ARCO

PROJECT: SINCLAIR LANDFILL REFINERY REMEDIATION
WELLSVILLE, NEW YORK

TITLE: REVISIONS TO CENTRAL ELEVATED LANDFILL AREA (CELA)
CAP GRADING PLAN

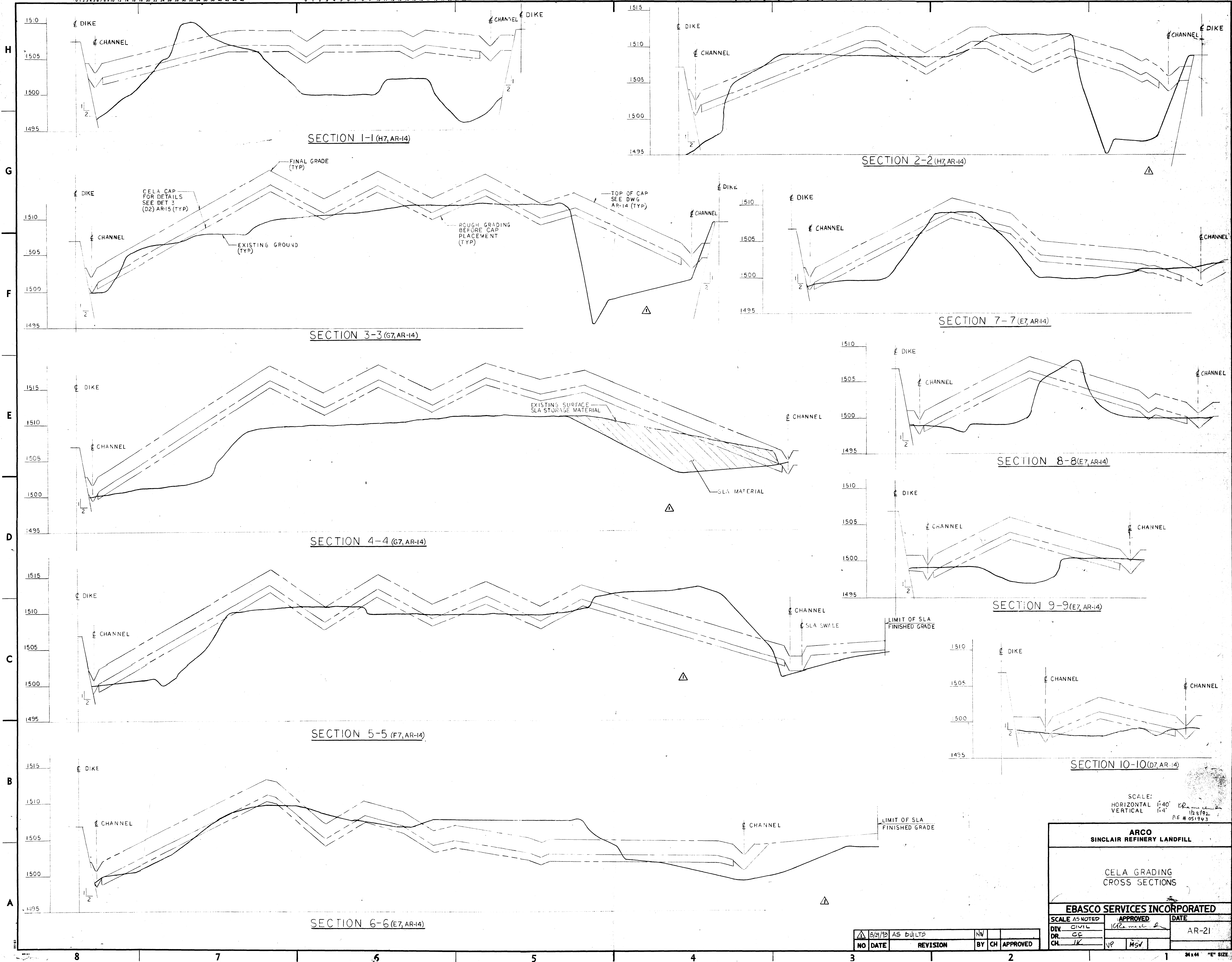
MARK	DATE	REVISION	BY	APPROVED

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION UNLESS SEALED.

J.F. Beal
SIGNATURE
20 Aug 1992
DATE

STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
NO. 06637
J.F. Beal

DATE: 20 AUGUST 1992	SCALE: 1" = 40'
DESIGN BY: RBN	JOB NO.: G03243-02
DRAWN BY: JW	FILE NO.: 3243-002
CHECKED BY: JFB	DOCUMENT NO.:
REVIEWED BY: RBN	DRAWING NO.:
APPROVED BY: JFB	1 OF 1



SCALE:
HORIZONTAL 1"=40'
VERTICAL 1"=4'

APPROVED: *[Signature]* DATE: 12/8/92
PE # 051143

ARCO
SINCLAIR REFINERY LANDFILL

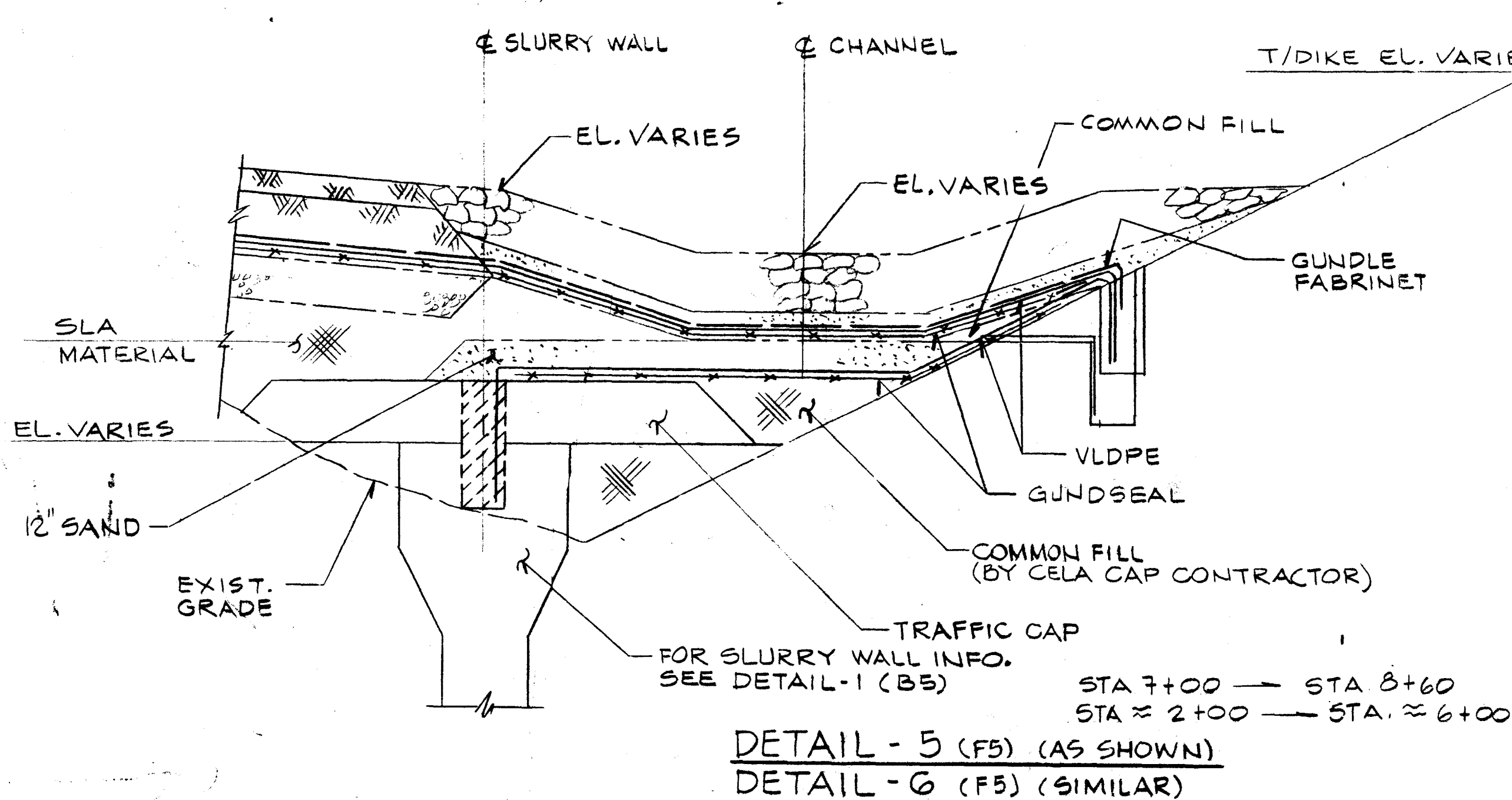
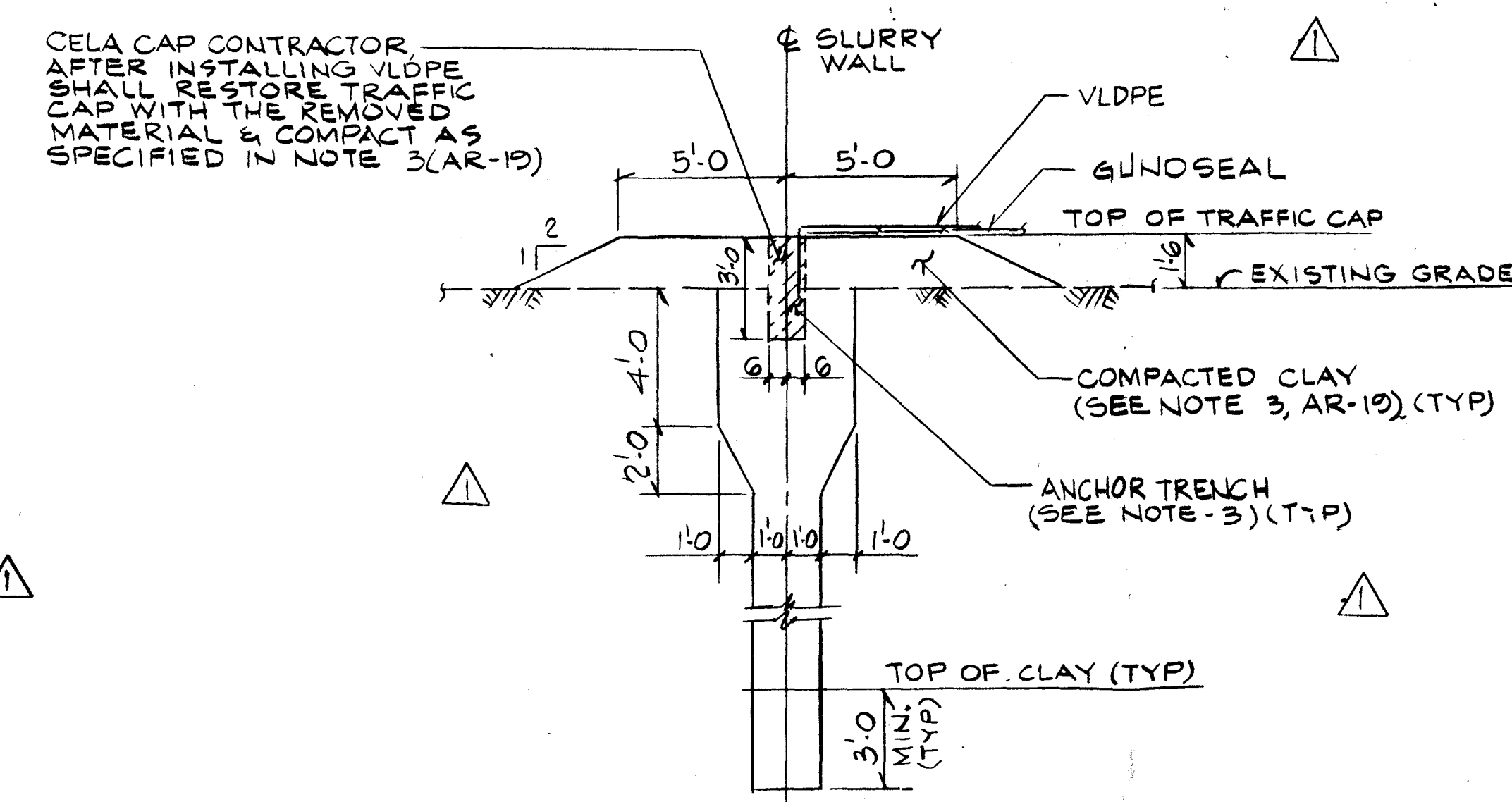
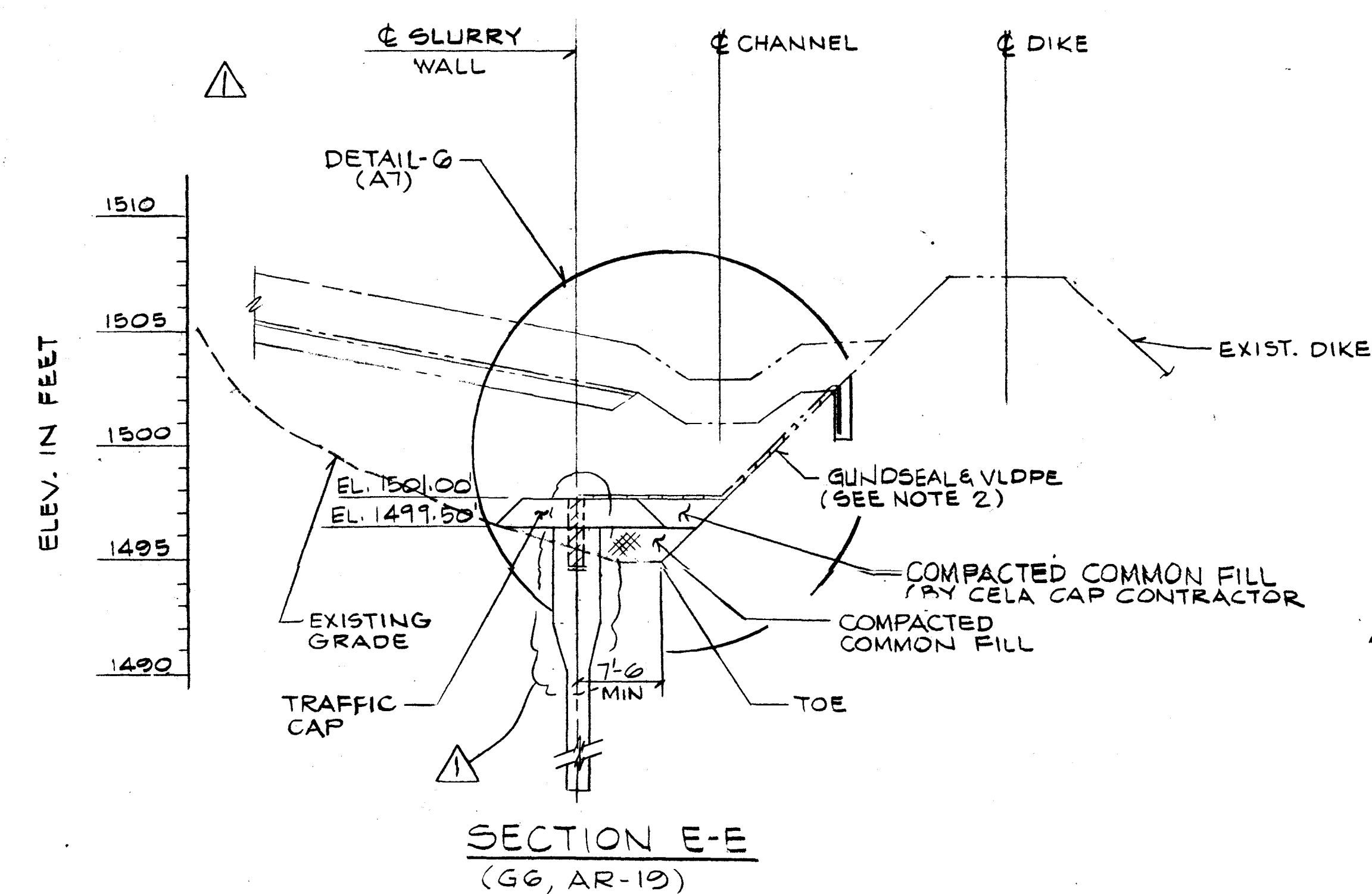
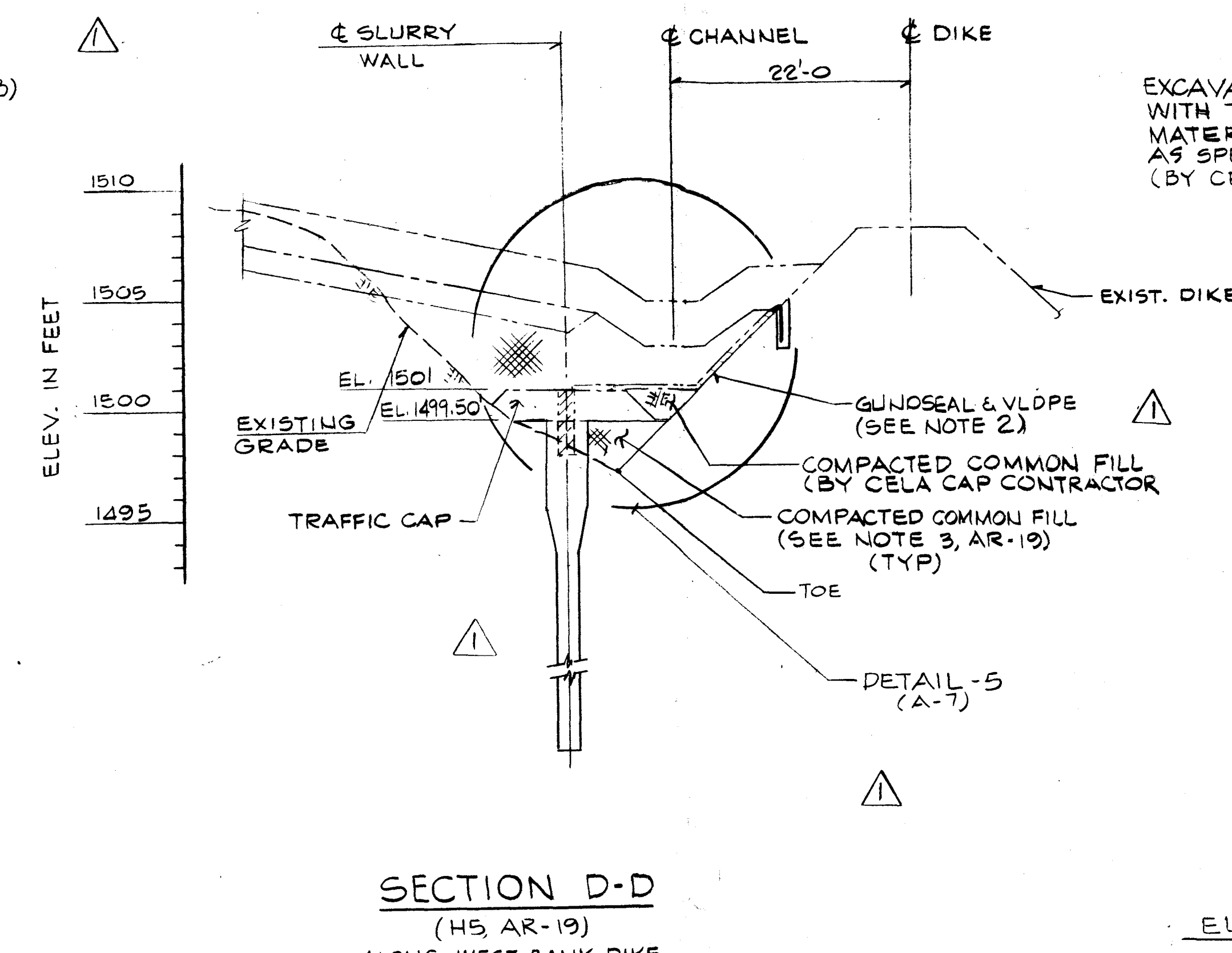
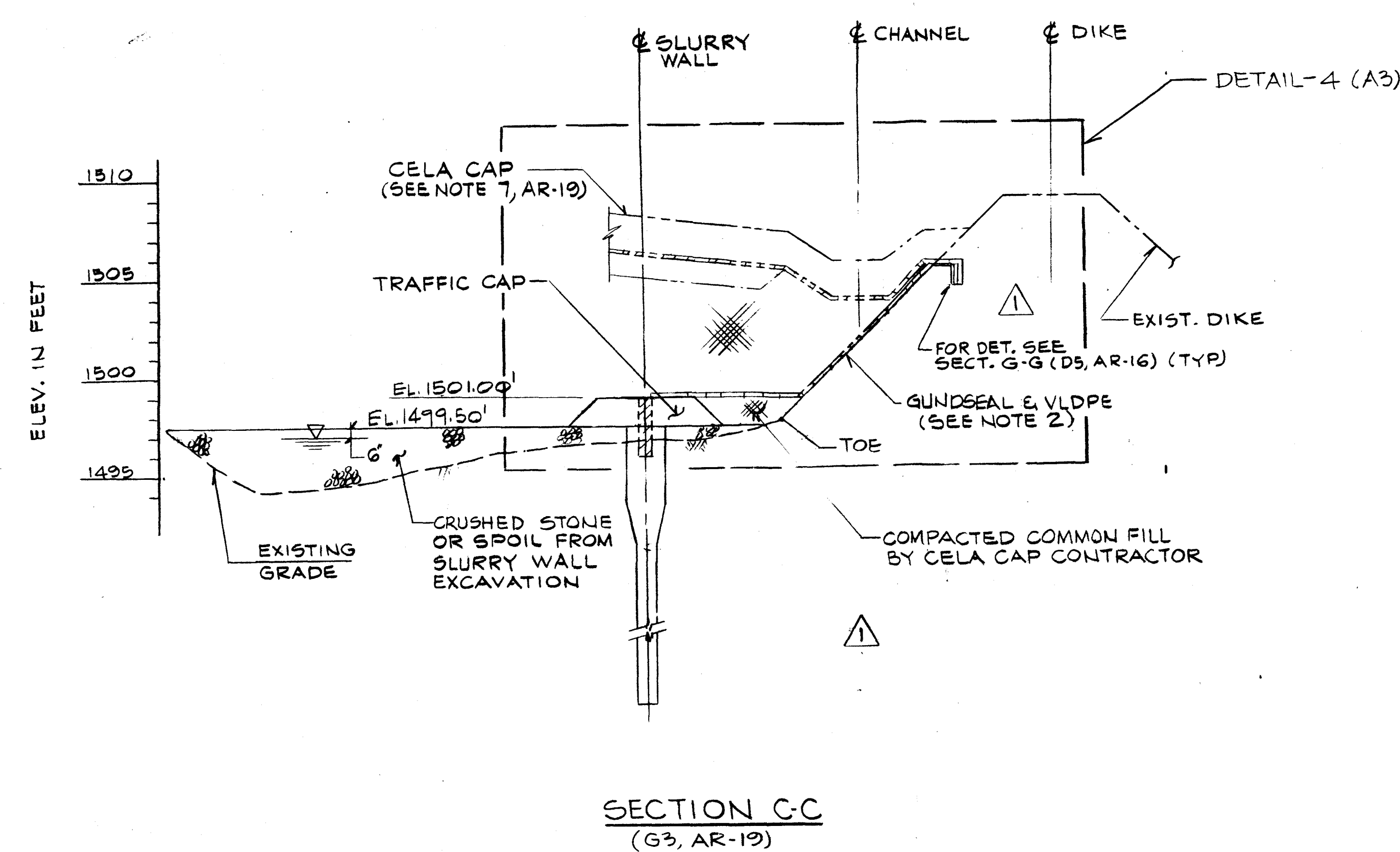
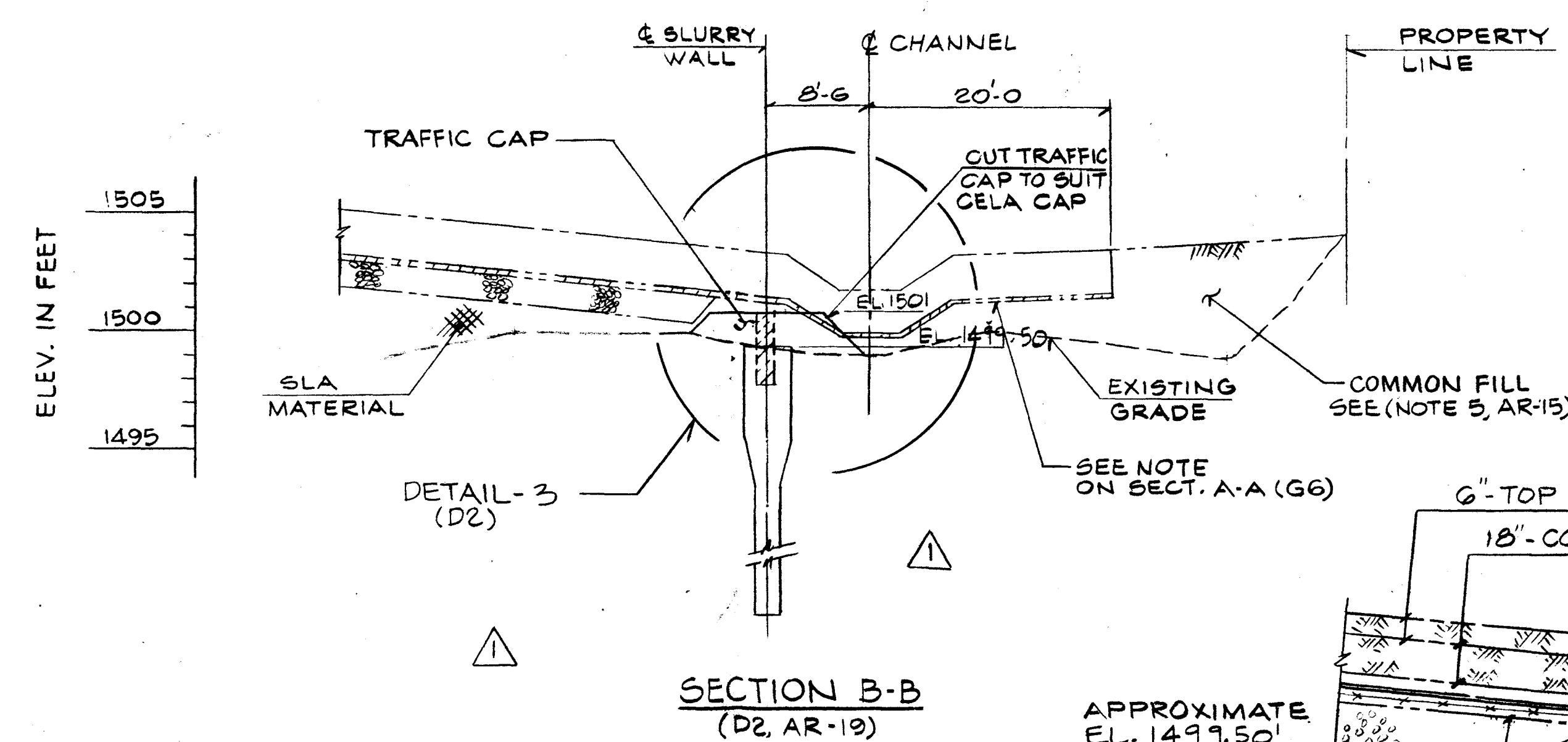
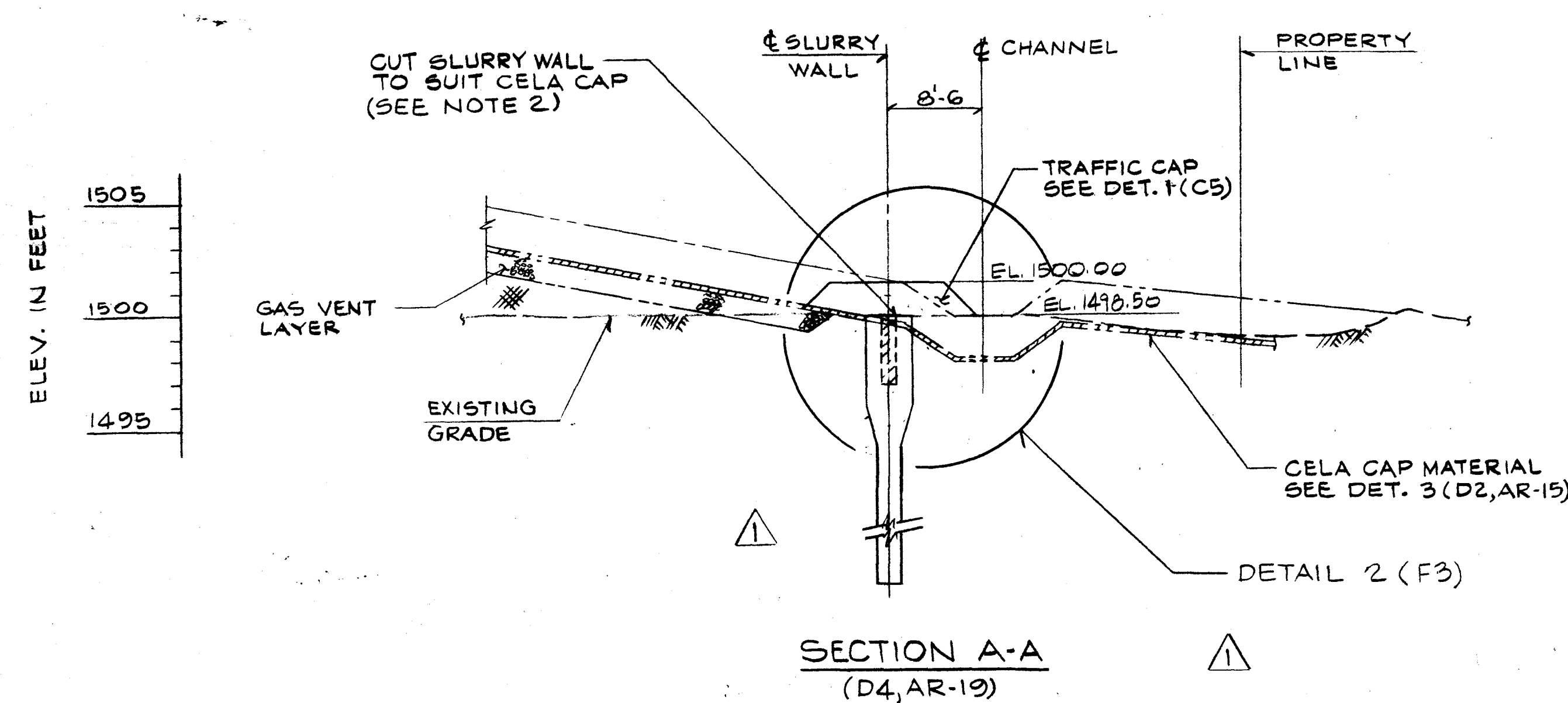
CELA GRADING
CROSS SECTIONS

EBASCO SERVICES INCORPORATED

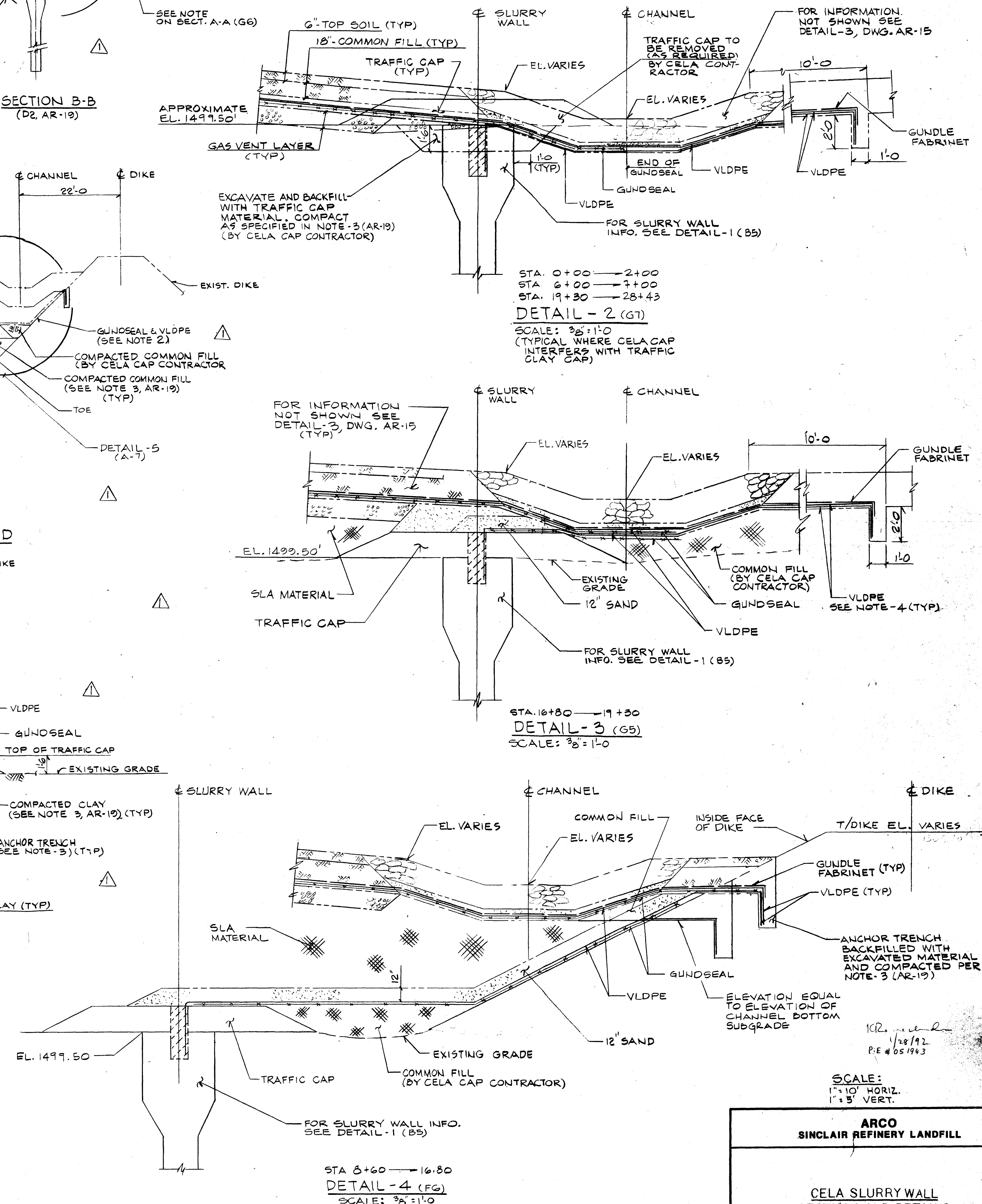
SCALE AS NOTED	APPROVED	DATE
DTV CIVIL	<i>[Signature]</i>	12/8/92
DR CE		AR-21
CH JK	VP HSD	

NO	DATE	REVISION	BY	CH	APPROVED
1	8/21/92	AS BUILT	NW		

34x44 "E" SIZE



DETAIL-1
TYP. SLURRY WALL
AND TRAFFIC CAP DETAIL
N.T.C.



NOTES:

1. FOR NOTES AND REFERENCE DRAWINGS -
SEE DRAWING AR-19.
2. THE CELA CAP CONTRACTOR'S SCOPE OF WORK,
INCLUDES REMOVAL OF MATERIAL ON TRAFFIC
CAP AS REQUIRED TO MEET THE GRADES FOR
CELA CAP & INSTALLATION OF GUNDOSEAL
VLDPE.
3. CELA CAP CONTRACTOR SHALL EXCAVATE A
KEY TRENCH, AND AFTER INSTALLATION OF
VLDPE & CLAYMAX, SHALL BACKFILL AND COMPACT
PER NOTE -3 ON AR-19.
4. THE CONTRACTOR MAY DISCONTINUE THE
BOTTOM LAYER OF VLDPE 5'-0" PAST THE
GUNDOSEAL PROVIDED BOTH LAYERS ARE FUSED
WELDED TO PROVIDE LEAKPROOF JOINT.

STA. 0+00 → 2+00
STA. 6+00 → 7+00
STA. 19+30 → 28+43
DETAIL - 2 (G7)
SCALE: 3/8" = 1'-0"
(TYPICAL WHERE CELA CA
INTERFERS WITH TRAFF
CLAY CAP)

STA. 16+80 — 19+30
DETAIL - 3 (G5)
SCALE: $\frac{3}{8}" = 1'-0"$

STA 8+60 $\rightarrow$ 16.80
DETAIL - 4 (FG)
 SCALE: $\frac{38''}{1'0}$

SCALE:
1" = 10' HORIZ.
1" = 5' VERT.

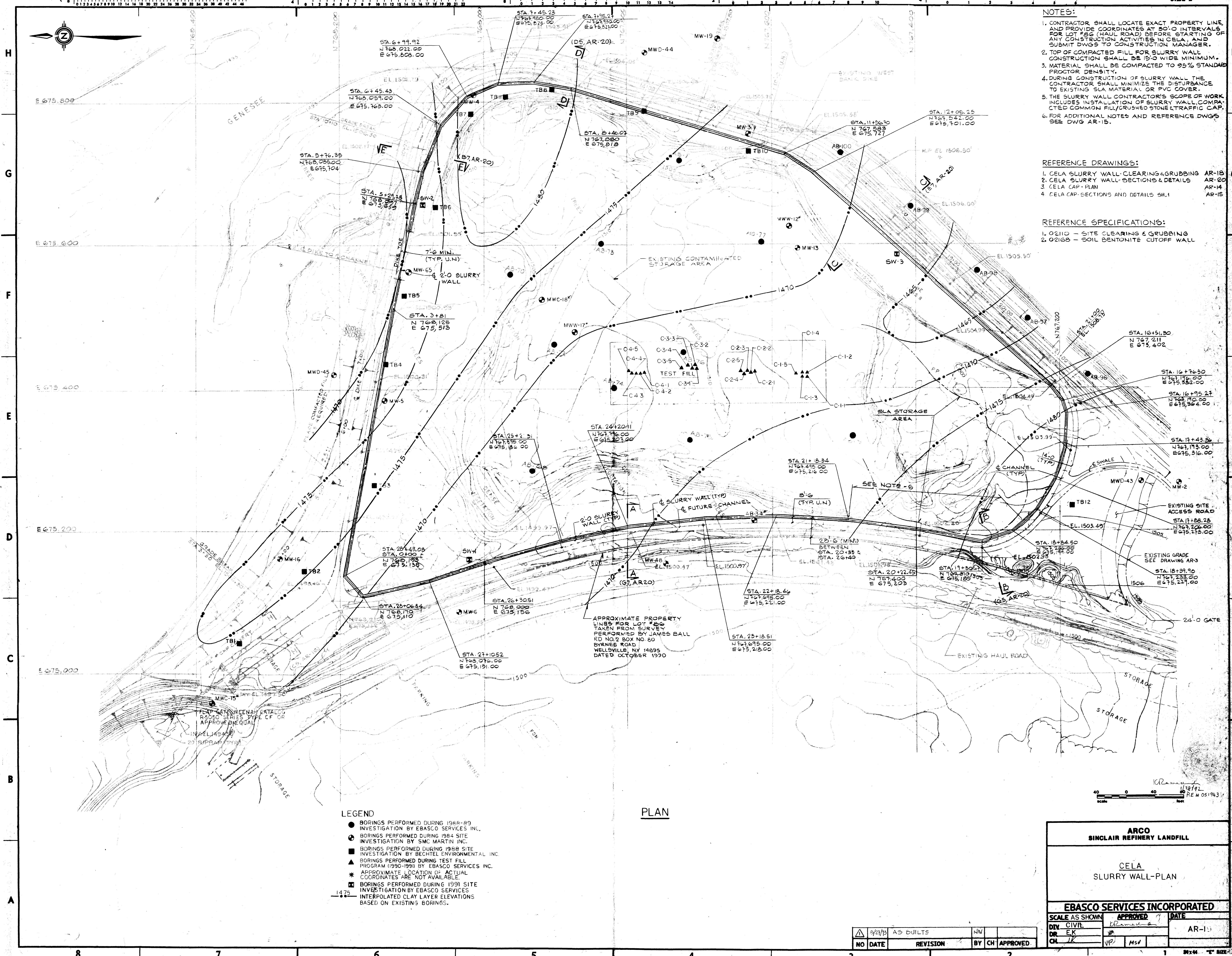
**ARCO
SINCLAIR REFINERY LANDFILL**

CELA SLURRY WALL SECTIONS AND DETAILS

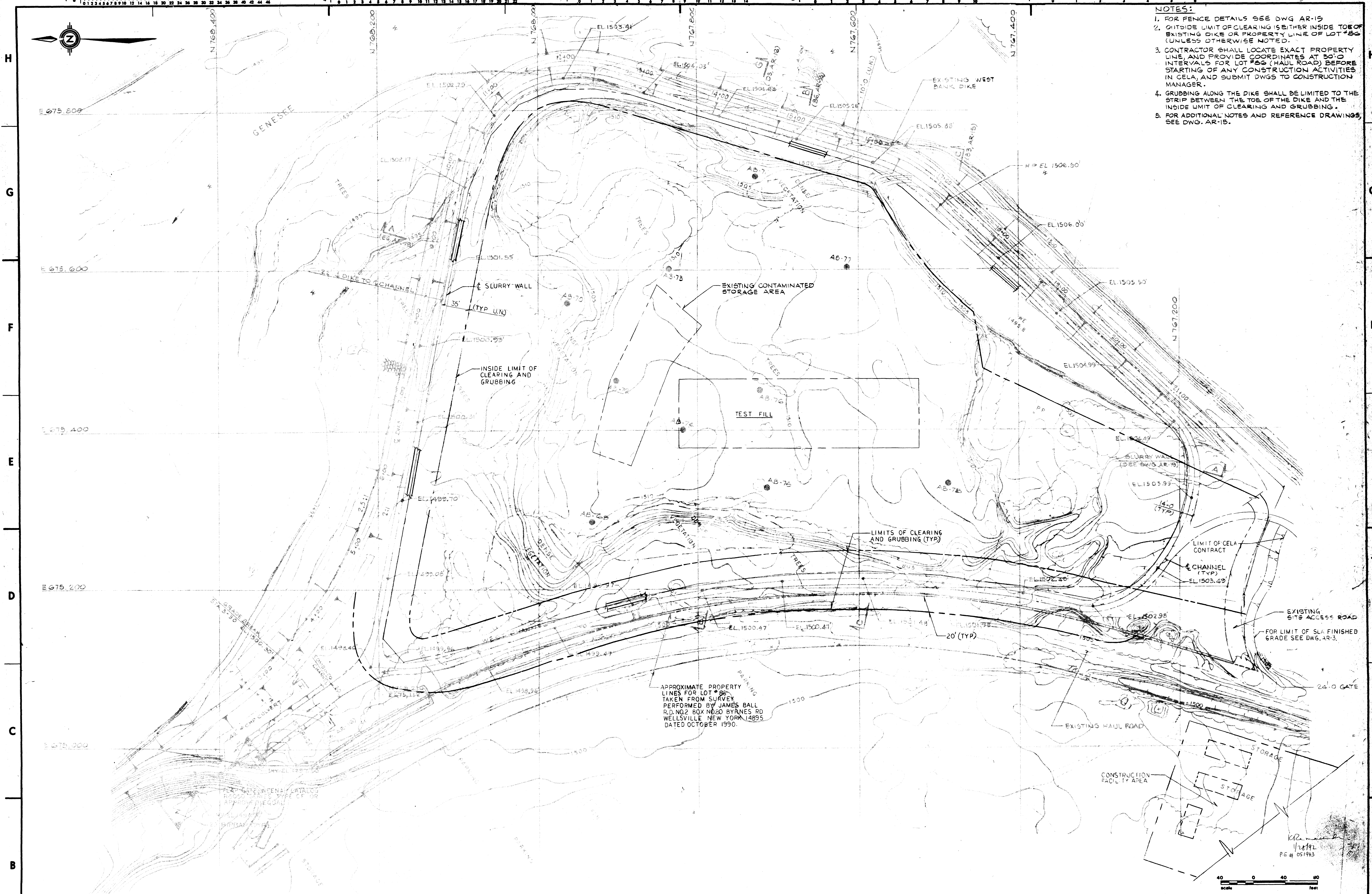
EBASCO SERVICES INCORPORATED

	8/29/93	AS BUILTS	NW		
	3-27-92	ADD: (A7, C2, E2, G2) DETAILS. REV: (C5, C8, E5, E8, G3, G8) SLURRY WALL DETAILS	EK	VP	KR
NO	DATE	REVISION	BY	CH	APPROVED

SCALE AS SHOWN		APPROVED		DATE	
DIV.	CIVIL	Kilmer		AR-20	
DR.	E.K.				
CH.	IK	VP	H.S.		



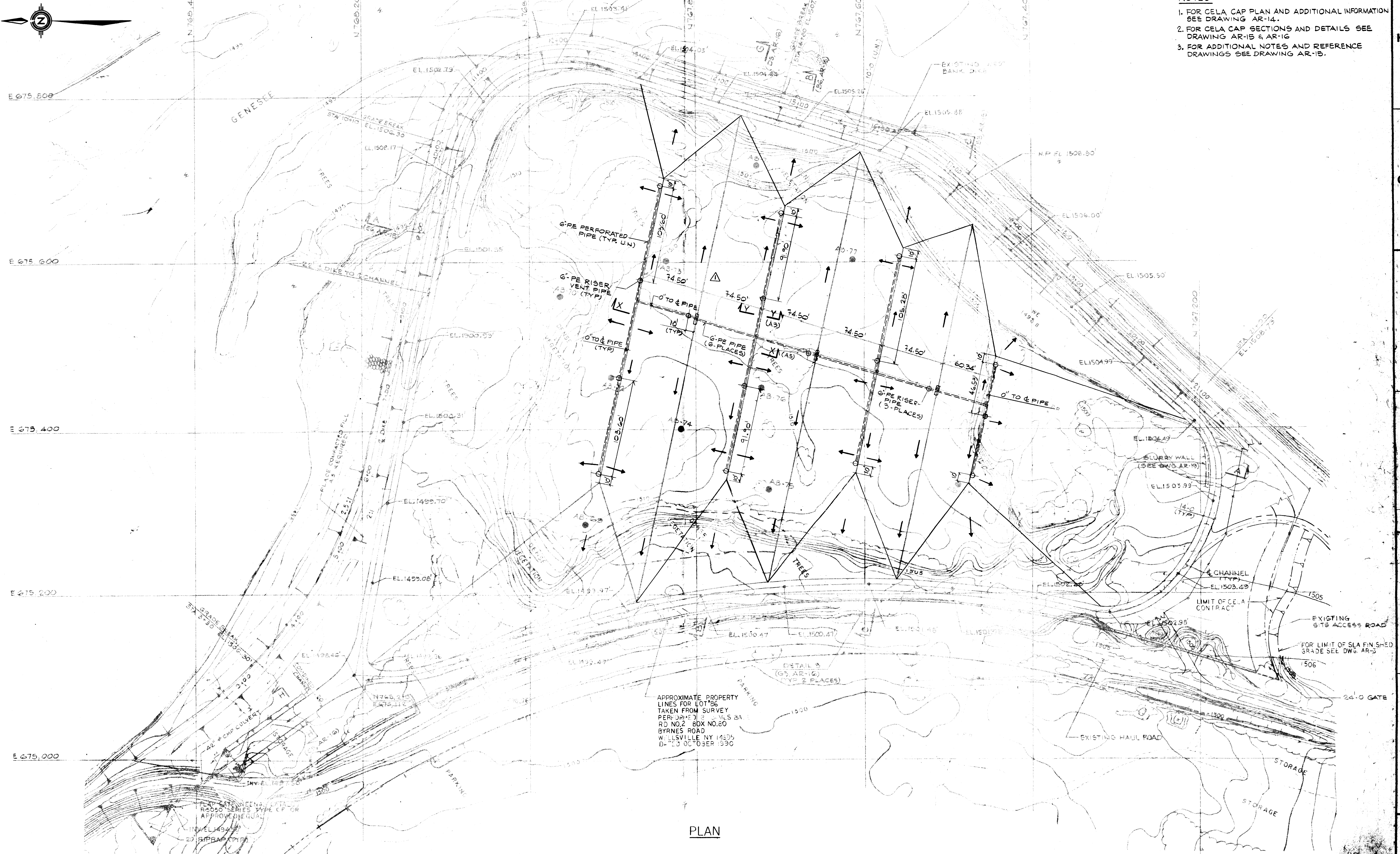
- NOTES:
1. FOR FENCE DETAILS SEE DWG. AR-15
 2. OUTSIDE LIMIT OF CLEARING IS EITHER INSIDE TOE OF EXISTING DIKE OR PROPERTY LINE OF LOT #86 (UNLESS OTHERWISE NOTED).
 3. CONTRACTOR SHALL LOCATE EXACT PROPERTY LINE AND PROVIDE COORDINATES AT 50.0 INTERVALS FOR LOT #86 (HAUL ROAD) BEFORE STARTING OF ANY CONSTRUCTION ACTIVITIES IN CELA, AND SUBMIT DWGS TO CONSTRUCTION MANAGER.
 4. GRUBBING ALONG THE DIKE SHALL BE LIMITED TO THE STRIP BETWEEN THE TOE OF THE DIKE AND THE INSIDE LIMIT OF CLEARING AND GRUBBING.
 5. FOR ADDITIONAL NOTES AND REFERENCE DRAWINGS, SEE DWG. AR-15.



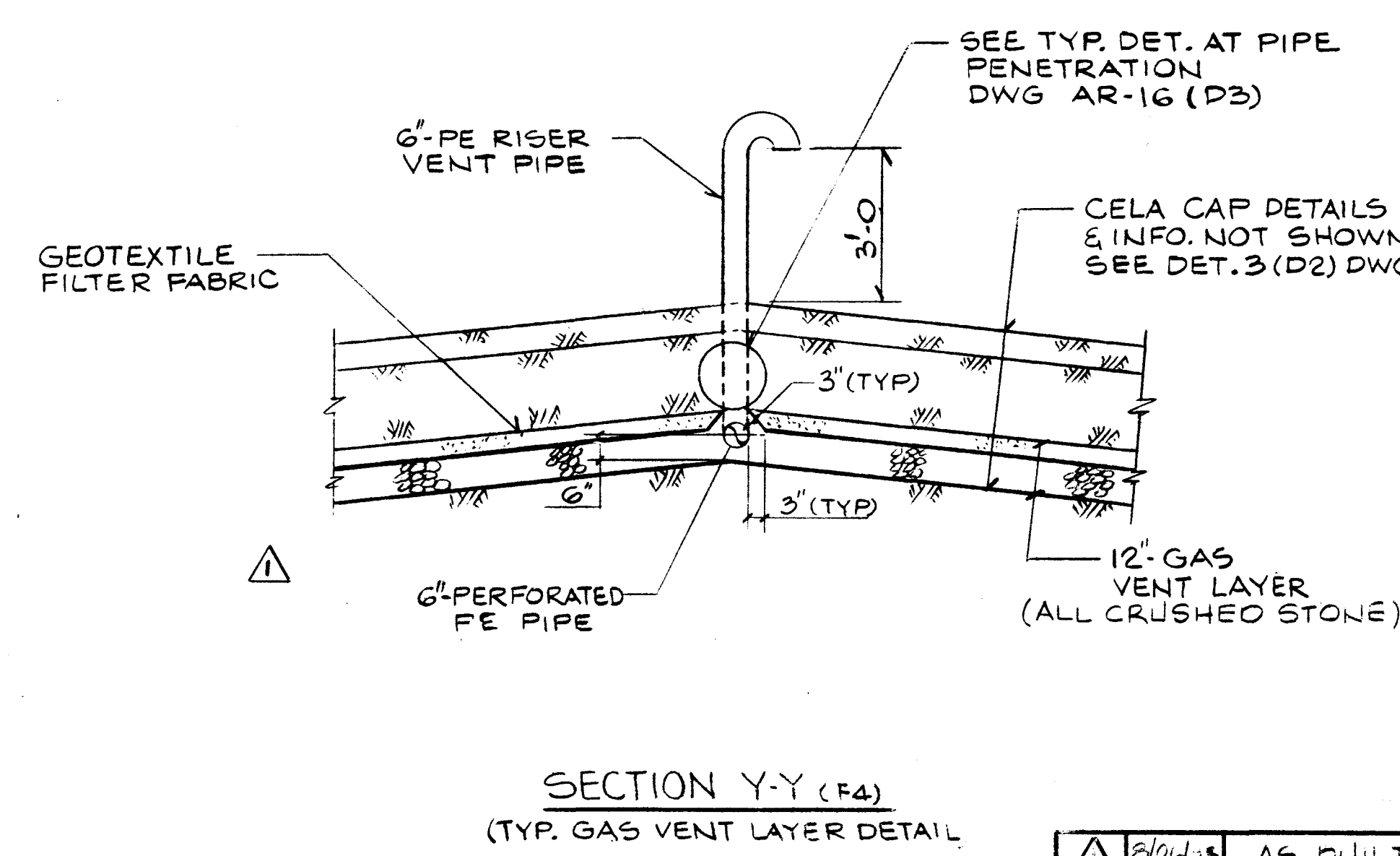
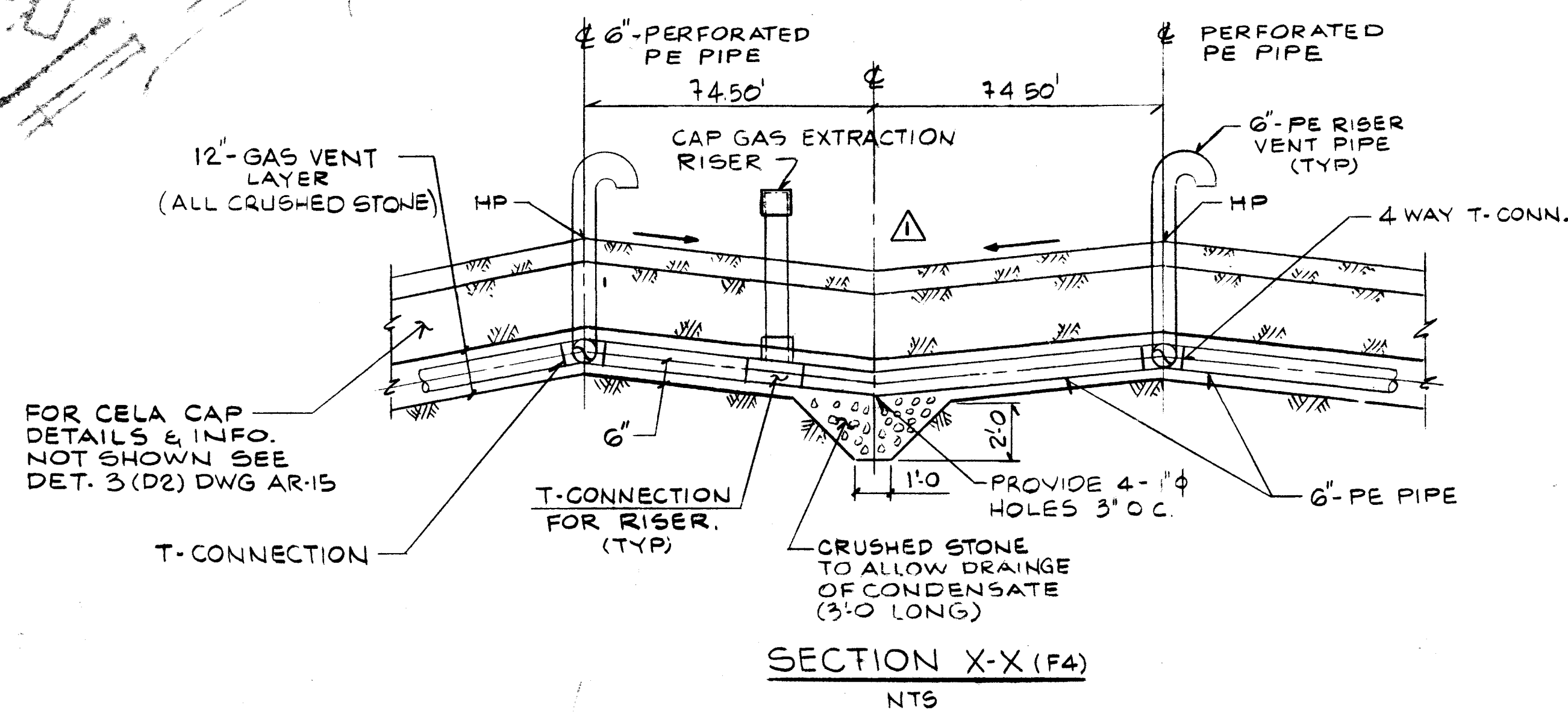
PLAN

ARCO SINCLAIR REFINERY LANDFILL	
CELA SLURRY WALL CLEARING AND GRUBBING	
EBASCO SERVICES INCORPORATED	
SCALE AS SHOWN	APPROVED
DIV. CIVIL	DATE
DR. E.K.	AR-15
CH. J.K.	

- NOTES:
1. FOR CELA CAP PLAN AND ADDITIONAL INFORMATION SEE DRAWING AR-14.
 2. FOR CELA CAP SECTIONS AND DETAILS SEE DRAWING AR-15 & AR-16
 3. FOR ADDITIONAL NOTES AND REFERENCE DRAWINGS SEE DRAWING AR-15.



PLAN



40 0 40 80
feet

ARCO
SINCLAIR REFINERY LANDFILL

CELA CAP
VENTING SYSTEM

EBASCO SERVICES INCORPORATED

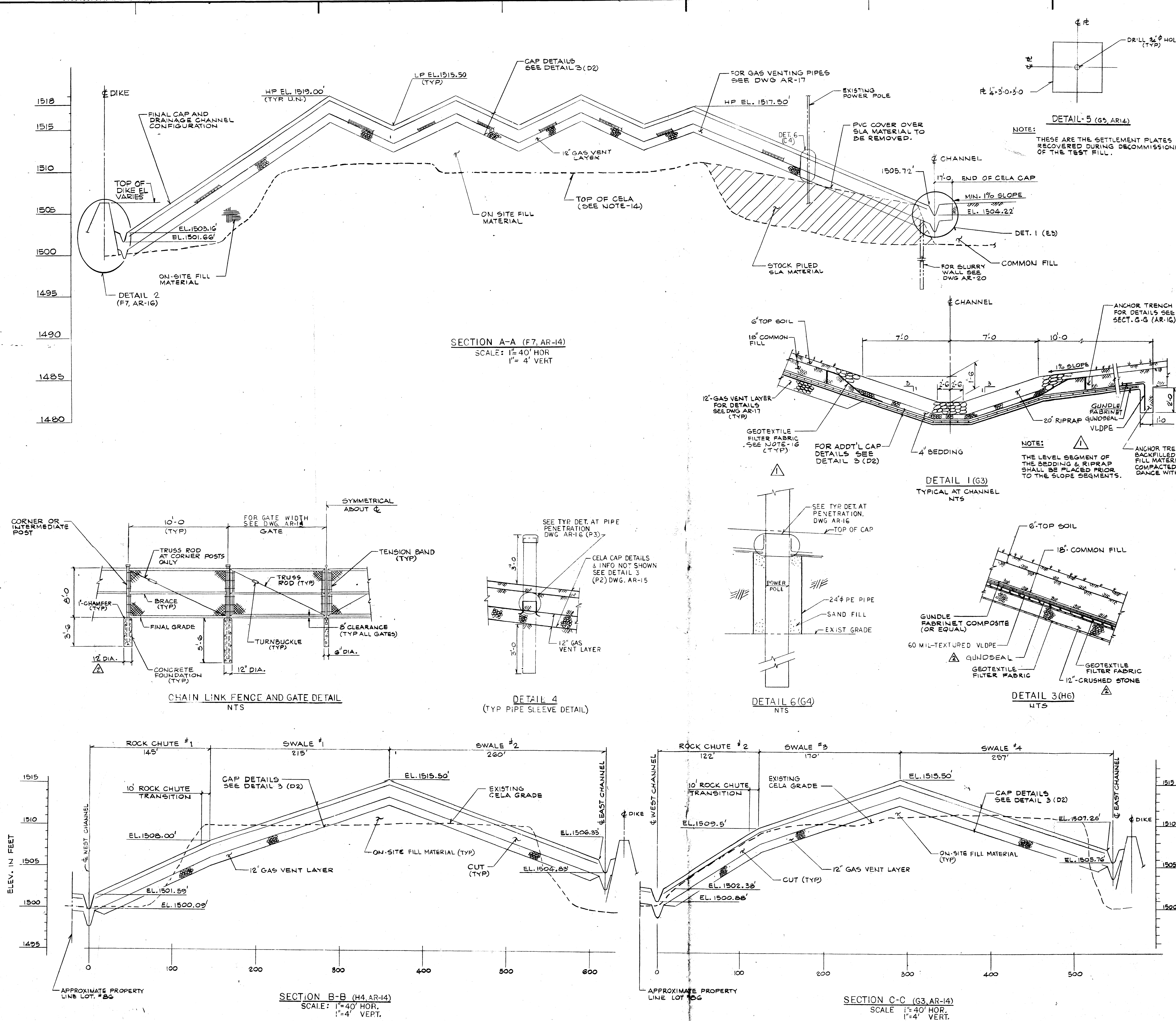
SCALE AS SHOWN	APPROVED	DATE
DIV. CIVIL	<i>[Signature]</i>	1/28/92
DR. E.K.		
CH. J.S.		
	VP	1/28/92
	1/28/92	

AR-17

NO	DATE	REVISION	BY	CH	APPROVED
1	8/24/93	AS BUILT			
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100					

34 x 44 "E" SIZE

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D
C
B
A



- NOTES:**
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR AS SPECIFIED IN SECTION 02485 OF THE CONTRACT SPECIFICATIONS.
 - CONTRACTOR SHALL VERIFY LOCATION AND TYPE OF UNDERGROUND UTILITIES AND STRUCTURES IN THE FIELD, OR BY CONTACTING THE APPROPRIATE COMPANIES. A PARTIAL LIST OF POTENTIAL CONTACTS ARE PROVIDED AS FOLLOWS:
- NIAGARA MOHAWK POWER CORPORATION
535 WASHINGTON STREET
BUFFALO, NEW YORK (716) 857-4238
- MARY STOUT
WELLSVILLE UTILITY COORDINATOR
(716) 593-1780
- BOB ALLIARD
NATIONAL FUEL COMPANY
ENGINEERING DEPARTMENT
10 LAFAYETTE SQUARE
BUFFALO, NEW YORK (716) 857-7060
THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY LOCATION SERVICE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR DAMAGE TO UNDERGROUND UTILITIES.
 - COMMON FILL MATERIAL SHALL BE COMPACTED TO 98 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698-82.
 - WATERLINE SHOWN ON THE DWG IS BASED ON TOPOGRAPHIC BASE MAP FIGURE 3-5 OF PHASE 1 REMEDIATION INVESTIGATION, SINCLEAR REFINERY SITE, WELLSVILLE, NEW YORK BY EMC MARTIN INC., MARCH 1985.
 - COORDINATES SHOWN ARE BASED ON NEW YORK STATE COORDINATE SYSTEM.
 - CONTOURS SHOWN WERE PREPARED BY TOPOGRAPHIC DATA CONSULTANTS INC. FROM AERIAL PHOTOGRAPHS.
 - ELEVATIONS SHOWN ARE BASED ON 1929 MEAN SEA LEVEL DATUM.
 - THE CONTRACTOR SHALL MAINTAIN ALL ACTIVITIES WITHIN THE CONTRACT WORK LIMITS ESTABLISHED FOR THIS PROJECT.
 - FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING AR-11.
 - FOR MATERIAL AND CONSTRUCTION REQUIREMENTS SEE THE TECHNICAL SPECIFICATIONS OF THE CONTRACT SPECIFICATIONS.
 - FOR SLURRY WALL PLAN AND SECTIONS SEE DRAWINGS AR-13 AND AR-20.
 - FOR GAS VENTING SYSTEM PLAN AND DETAILS SEE DRAWING AR-17.
 - COORDINATES FOR CHANNEL AND SLURRY WALL ARE SCALED AND MAY REQUIRE ADJUSTMENT TO SUIT FIELD CONDITIONS.
 - THE CONTRACTOR SHALL PROVIDE A CRUSHED STONE WORKING PAD, IF REQUIRED FOR MOVEMENT OF CONSTRUCTION EQUIPMENT, TO FACILITATE CONSTRUCTION. THE ADDITION OF THE WORKING PAD SHALL NOT RESULT IN AN AVERAGE INCREASE OF EXISTING GROUND ELEVATION OF MORE THAN INCHES.
 - FOR CONNECTION DETAILS BETWEEN ELEMENTS WHERE THE CELA CAP AND SEE DRAWING AR-15.
 - THE GEOTEXTILE FILTER FABRIC FOR DRAINAGE CHANNELS AND SPALLS SHALL BE POLYESTER 1500 OR APPROVED EQUIVALENT.

REFERENCE DRAWINGS:

NO.	TITLE	DWG. NO.
1)	SIA AREA	
	CLEARING SIA REMEDIATION & DIKE EXTENSION	
	GRUBBING SIA EXTENSION	
	SIA RESTORATION PLAN, DIKE EXTENSION PLAN AND SOIL BORING PROFILES	
	SIA EXCAVATION PLAN AND SECTIONS	
2)	DIKE EXTENSION	
	CLEARING SIA REMEDIATION & DIKE EXTENSION	
	GRUBBING DIKE EXTENSION	
	SIA RESTORATION PLAN, DIKE EXTENSION PLAN AND SOIL BORING PROFILES	
	DIKE EXTENSION PROFILE, SECTIONS AND DETAILS	
3)	DIKE	
	NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 1 OF 3	C-04
	NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 2 OF 3	C-05
	NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 3 OF 3	C-06
	DIKE SECTIONS AND DETAILS, SH. 2 OF 2	C-07
	DIKE SECTIONS AND DETAILS, SH. 2 OF 2	C-08
	DIKE PROFILE AND DRAINAGE DETAILS	C-09

- REFERENCE SPECIFICATIONS:**
- 02040 - DUST AND VAPOR CONTROL
 - 02200 - CELA CLOSURE
 - 02220 - PLACEMENT OF MATERIAL IN CELA
 - 02485 - SEEDING AND EROSION PROTECTION
 - 02830 - FENCES AND GATES

ARCO SINCLEAR REFINERY LANDFILL

CELA CAP SECTIONS AND DETAILS SH.1

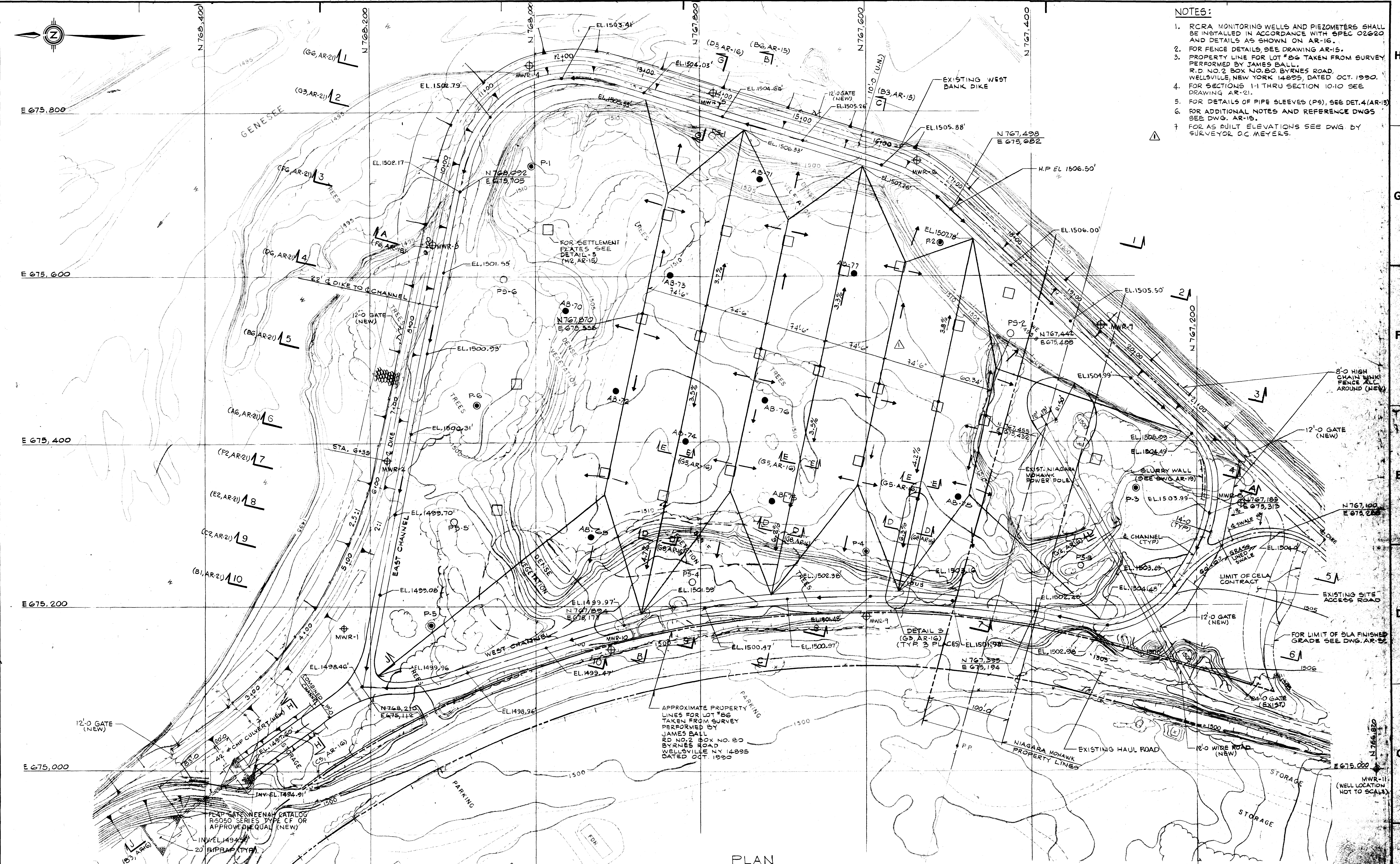
EBASCO SERVICES INCORPORATED

SCALE AS NOTED	APPROVED	DATE
DWG. NO.		
DR. NO.		
CH. NO.		

NO.	DATE	REVISION	BY	CH.	APPROVED
1	8/22/93	AS BUILT			
2	3/27/94	REV. (B2) ANCHORING DETAIL			
		ADD: (E1, E4) NOTES			

NOTES:

1. RCRA MONITORING WELLS AND PIEZOMETERS SHALL BE INSTALLED IN ACCORDANCE WITH SPEC 02620 AND DETAILS AS SHOWN ON AR-16.
2. FOR FENCE DETAILS, SEE DRAWING AR-15.
3. PROPERTY LINE FOR LOT #26 TAKEN FROM SURVEY PERFORMED BY JAMES BALL, R.D. NO. 2 BOX NO. 80 BYRNES ROAD, WELLSVILLE, NEW YORK 14895, DATED OCT. 1990.
4. FOR SECTIONS 1-1 THRU SECTION 10-10 SEE DRAWING AR-21.
5. FOR DETAILS OF PIPE SLEEVES (PS), SEE DET. 4 (AR-15).
6. FOR ADDITIONAL NOTES AND REFERENCE DWGS SEE DWG. AR-15.
7. FOR AS BUILT ELEVATIONS SEE DWG. BY SURVEYOR D.C. MEYERS.



PLAN

LOCATION SCHEDULE

MARK	NORTH	EAST
MNR-1	768,232	675,133
MNR-2	767,146	675,325
MNR-3	767,579	675,183
MNR-4	767,710	675,143
MNR-5	766,823	675,001
PS-1	767,185	675,369
PS-2	767,425	675,630
PS-3	767,340	675,280
PS-4	767,811	675,229
PS-5	768,099	675,301
PS-6	768,039	675,593
P-1	768,004	675,325
P-2	767,507	675,641
P-3	767,276	675,341
P-4	767,579	675,266
P-5	768,126	675,135
P-6	768,072	675,445

MARK	NORTH	EAST
MNR-2	768,137	675,237
MNR-3	768,123	675,238
MNR-4	768,006	675,354
MNR-5	767,783	675,820
MNR-6	767,537	675,735
MNR-7	767,316	675,639

LEGEND

- ⊕ NEW RCRA MONITORING WELL (11 REQ'D)
- ⊙ OPEN WELL PIEZOMETER (6 REQ'D)
- PIPE SLEEVE FOR FUTURE ACCESS TO SUBSURFACE BELOW CAP (6 REQ'D)
- BORINGS PERFORMED DURING SITE INVESTIGATION (1988-1989) BY EBASCO
- SETTLEMENT PLATES (25 REQ'D)

40 0 40 80
scale feet

ARCO
SINCLAIR REFINERY LANDFILL

CELA CAP
PLAN

EBASCO SERVICES INCORPORATED

SCALE AS SHOWN	APPROVED	DATE
DIV. CIVIL	<i>[Signature]</i>	AR-14
DR. E.K.		
CH. J.K.		

NO DATE	REVISION	BY CH	APPROVED

SCALING RULES

SIZE E

NOTES:

1. FOR NOTES AND REFERENCE DRAWINGS.
SEE DRAWING AR-15.

REFERENCE DRAWINGS:

TITLE	DWG. NO.
1. SITE GENERAL LAYOUT	AR-12
2. CELA SLURRY WALL-CLEARING AND GRUBBING	AR-15

REFERENCE SPECIFICATIONS:

02110 - SITE CLEARING AND GRUBBING

LEGEND:

- AREA CLEARED DURING SLA REMEDIATION, AND TEST FILL CONSTRUCTION
- AREA CLEARED DURING SLURRY WALL CONSTRUCTION
- AREA TO BE CLEARED BY CELA CAP CONTRACTOR

APPROXIMATE PROPERTY
LINES FOR LOT #86
TAKEN FROM SURVEY
PERFORMED BY JAMES BALL
RD. NO. 2 BOX NO. 80
BYRNE ROAD
WELLSVILLE, N.Y. 14895
DATED OCTOBER 1990.

1/2" = 1' SCALE
1/2" = 1' SCALE
1/2" = 1' SCALE

ARCO
SINCLAIR REFINERY LANDFILL

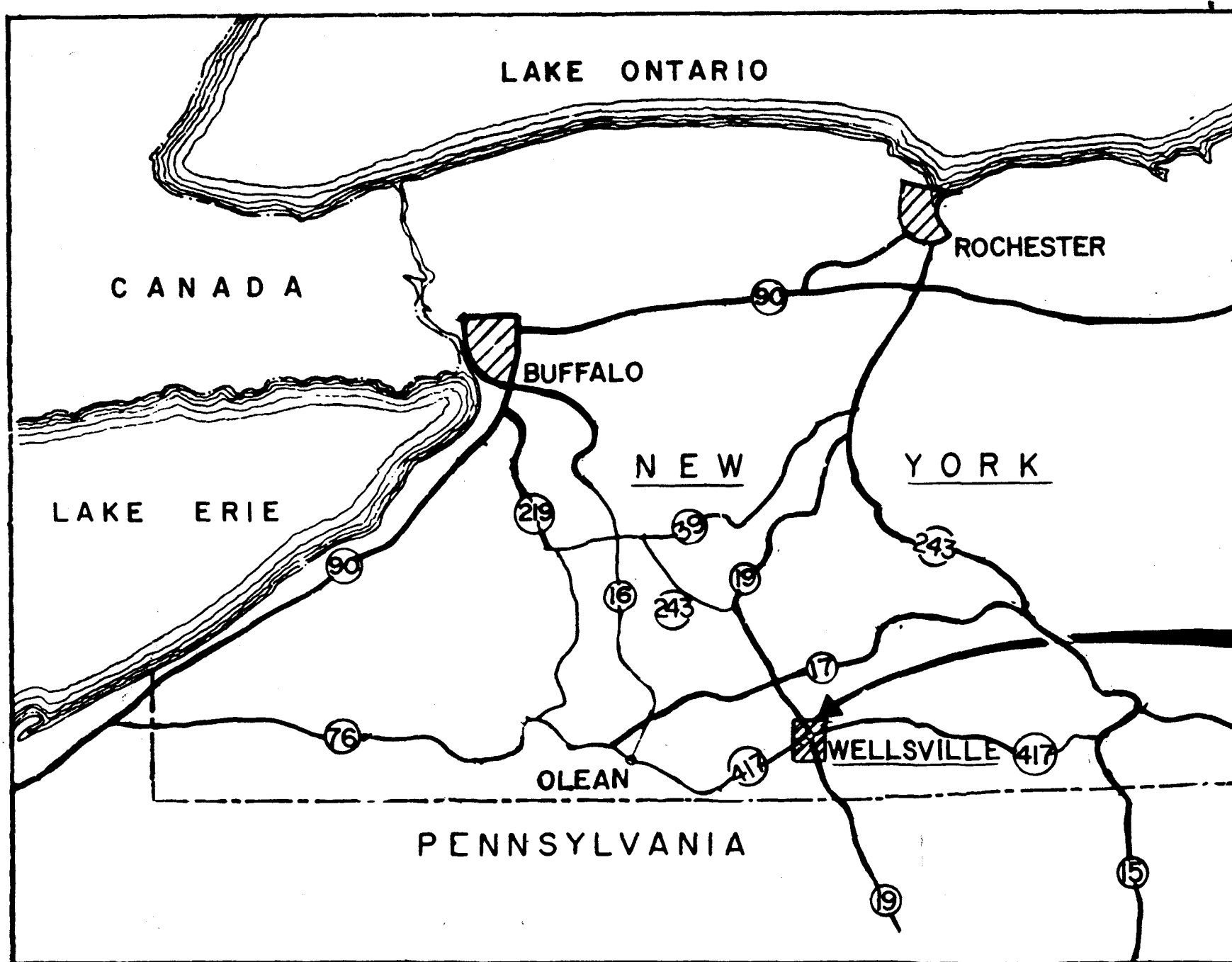
CELA
CLEARING

EBASCO SERVICES INCORPORATED

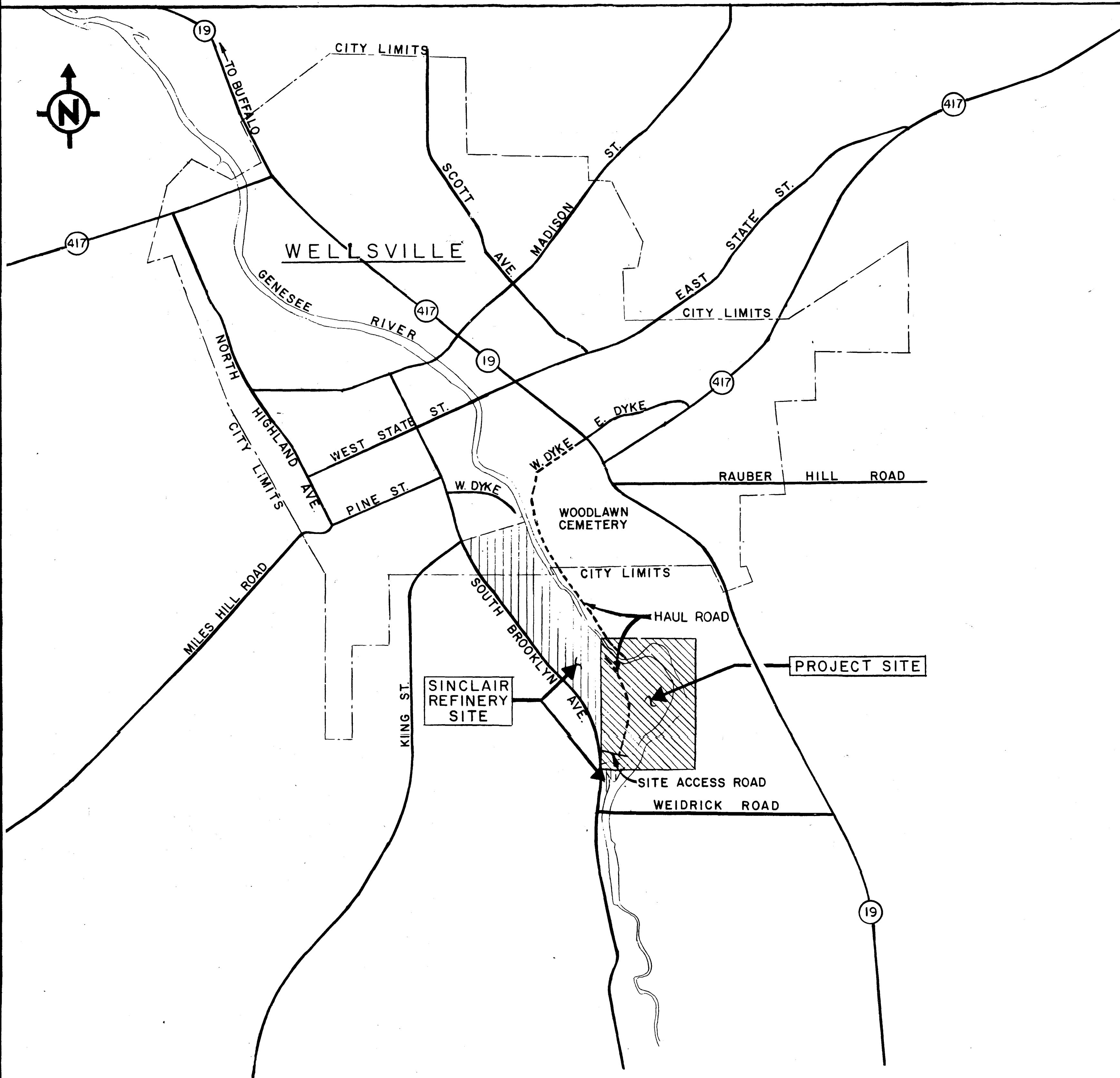
SCALE AS NOTED	APPROVED	DATE
DR. J.K.	VP	AR-13
CH. J.K.	MSV	

NO.	DATE	REVISION	BY	CH	APPROVED
1					

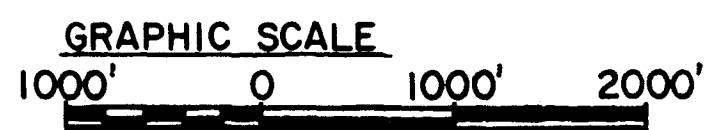
24x44 "E" SIZE



LOCATION MAP
NOT TO SCALE



VICINITY MAP
1" = 1000'



DRAWING INDEX		
DWG. NO.	REV.	DRAWING TITLE
AR-11	2	LOCATION MAP VICINITY MAP AND DRAWING INDEX
AR-12	0	SITE GENERAL LAYOUT
AR-13	0	CELA-CLEARING
AR-14	0	CELA CAP-PLAN
AR-15	1	CELA CAP-SECTIONS AND DETAILS SH. 1
AR-16	1	CELA CAP-SECTIONS AND DETAILS SH. 2
AR-17	0	CELA CAP-VENTING SYSTEM
AR-18	0	CELA SLURRY WALL-CLEARING & GRUBBING
AR-19	0	CELA SLURRY WALL-PLAN
AR-20	1	CELA SLURRY WALL-SECTIONS AND DETAILS
AR-21	0	CELA GRADING-CROSS SECTIONS
AR-22	0	REFINERY SURFACE SOIL REMEDIATION GENERAL EXCAVATION PLAN
AR-23	0	REFINERY SURFACE SOIL REMEDIATION EXCAVATION & BACKFILL PLAN SECTS & DETAILS SH. 1
AR-24	0	REFINERY SURFACE SOIL REMEDIATION EXCAVATION & BACKFILL PLAN SECTS & DETAILS SH. 2

ABBREVIATIONS

AB---AUGER BORINGS

CELA-CENTRAL ELEVATED LANDFILL AREA

DET--DETAIL

EL-- ELEVATION

TYP-- TYPICAL

WE-- WATER ELEVATION

VLDPE-VERY LOW DENSITY POLYETHYLENE

DIA-- DIAMETER

MIN--MINIMUM

NTS-- NOT TO SCALE

HOR-- HORIZONTAL

VERT-- VERTICAL

HP-- HIGH POINT

MWR NEW MONITORING WELLS TO BE INSTALLED

SLA--SOUTH LANDFILL AREA

PE---POLYETHYLENE

PVC--POLYVINYL CHLORIDE

CMP--CORRUGATED METAL PIPE

MW
MWC
MWD
MWW

EXISTING MONITORING WELLS TO BE DECOMMISSIONED

SM-- SITE MONUMENT

PS-- PIPE SLEEVE

P---PIEZOMETER

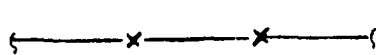
TB-- TEST BORINGS BY BECHTEL (1988)

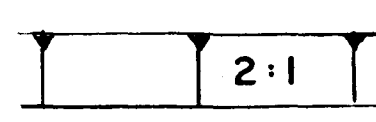
AB-- TEST BORINGS BY EBASCO (1988-89)

C---TEST BORINGS BY EBASCO (1990-91)

SYMBOLS

 EXISTING POWER LINE

 EXISTING FENCE

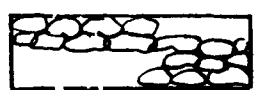
 SIDE SLOPE

 BOREHOLE LOCATION

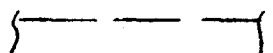
 FLOW DIRECTION

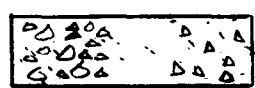
 EXISTING CONTOUR

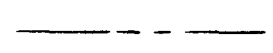
 CENTERLINE OF DIKE

 RIPRAP

 CULVERT

 EXISTING ROAD

 GRAVEL

 OUTLINE OF EXISTING STRUCTURES

 ELEVATION OF CLAY LAYER

KRamech
1-28-92
P.E.#051943

ARCO SINCLAIR REFINERY LANDFILL			
LOCATION MAP, VICINITY MAP AND DRAWING INDEX			
EBASCO SERVICES INCORPORATED			
SCALE AS NOTED	APPROVED	DATE	
DIV. CIVIL	KRamech	AR-11	
DR. E.K.			
CH. JK	VP	MSV	

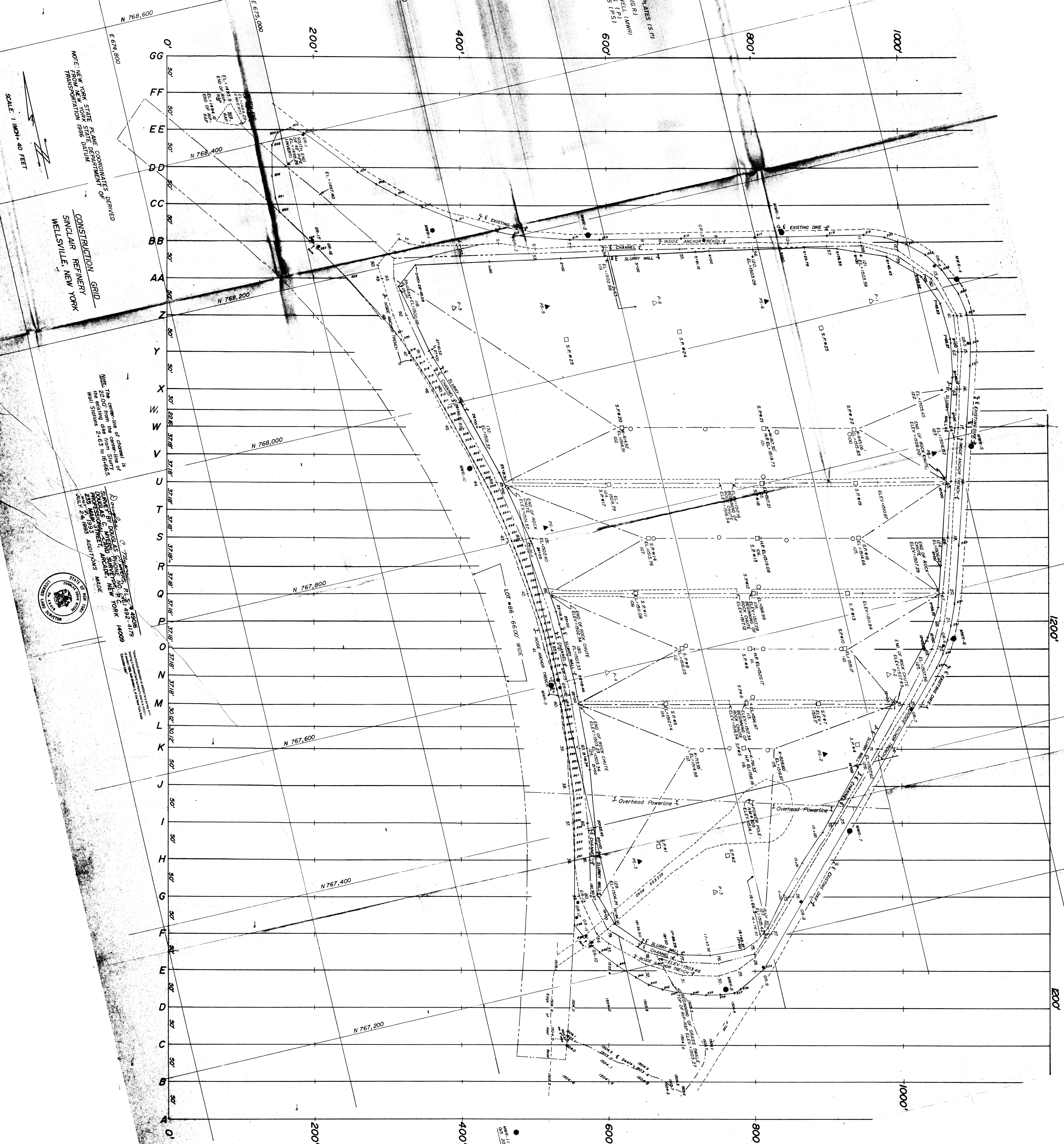
Δ	5/18/92	REV: (G4) DRAWING INDEX	VP	VP	VP
Δ	3/27/92	REV: (G4) DRAWING INDEX	EK	VP	VP
NO	DATE	REVISION	BY	CH	APPROVED

E 675,800		NEW YORK STATES	
		PLANE COORDINATES	EXISTING
WORK GRID			
POINT NO			
X 791.33	767,455	675,432	
K-94882	767,474	675,488	
W 817.30	767,180	675,555	
A-0	767,146.90	674,548.10	
A-1200	766,875.54	674,717.01	
66-0	766,543.06	674,872.42	
66-1200	766,272.61	675,041.33	

LEGEND:

- H.R. = HIGH POINT
- = VENT PIPE
- = CLEAN-OUT
- = SETTLEMENT POST (G.R.)
- ✕ = GROUND ROD
- = MONITORING WELL (MWR)
- △ = PIEZOMETERS (P.S.)
- ▲ = PIPE SLEEVES

6



NOTE: NEW YORK STATE PLANE COORDINATES OF
FROM NEW YORK STATE DATUM.

CONSTRUCTION GRID
SINCLAIR REFINERY
WELLSVILLE, NEW YORK

Note: The center-line of channel is 22.00 from the center line of the existing dike from Slurry Wall Stations 2+63 to 16+66.5

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