

A0006577

BACK UP PAPERS
CONTRACT NO. _____

3

94-C-0079

CONTRACT No. DACH 29-94-C-0079, LONDON AVE CANAL WALL,
CONTRACT # 03 — CONTRACTOR'S ORIGINAL FIELD NOTES
FOR THE NEW WALL - LINE LAYOUT
23 JAN 1995

CELMN-NO (1180-1-1q)

DATE: 10/11/94

MEMORANDUM THRU NOAA, Ofc Engr, ATTN: Buck Burgess

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,

Contract No. DACW29- 94-C-0079

Attached are original field notes on stations _____

Attached are final field notes on stations _____

Attached are original data for settlement plates for stations _____

Attached are final data for settlement plates for Stations _____

Attached is additional information necessary for calculating quantities on subject job.

The attached data is the last data necessary for computing theoretical quantities. No more data is needed for theoreticals.

The attached data is the last data necessary for computing final quantities. No more data is needed for finals.

Additional Comments: Levels to establish
T.B.M elevations by Gov't survey party

Atch



CHESTER ASHLEY
Area Engineer
New Orleans Area Office

CF:
Proj Engr (Wagner)

CONTRACT # 94-C-0079

LONDON AVE. CANAL, MIRABEAU
AVE. TO LEON C. SIMON BLVD,
HURR. PROTECTION.

LEVELS TO ESTABLISH

T.B.M. ELEVATIONS, BOOK #1

PAGES 12 THRU 18.

JOHN E. CHANCE & ASSOC.,

JOHN GREMILLION, PARTY CHIEF.

OFFICE ENGR SECTION NOAO	
Checked by:	<u>OJH</u>
Date:	<u>10-12-94</u>

12

Job# 94-C0079

London Avenue Outfall CANAL

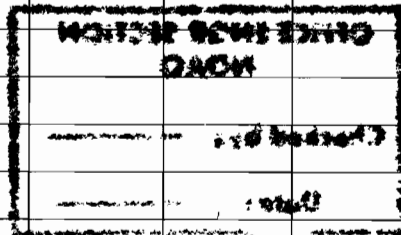
Vertical Control

STA	+	Ho.L.	-	Elev.
To B.M. JECA#B				(11.89)

	2.54	(14.43)		
To B.M. JECA#11	2.75	(14.66)	4.77	(9.66)
			4.94	(9.65)

	4.94	(14.60)		
	4.75	(14.43)		

To B.M. JECA#B			2.70	(11.90)
			2.54	(11.84)
			11.89	
			0.01	



Next Page

J. Gremillion P.C.
B. Lemoine X
G. Whitney d

July 28, 1994

12

Level/Lictz #13737 Clear Cool Temp. 75°

REMARKS:

- To B.M. JECA#8 For Elevation AND
- Description see this Book Page-8

To B.M. JECA#11 Chisled X @ Concrete
Walkway on Bridge over London Canal
@ North Side of Bridge

To B.M. JECA#8 For Elevation AND
Description

(
(

CONTRACT # 94-C-0079

(LONDON AVE. CANAL, MIRABEAU
(AVE. TO LEON C. SIMON BLVD,
HURR. PROTECTION.

(

(

(

13

Job# 94-C-0079

London Avenue Outfall Canal
Vertical Control Loop

Sta. T.B.M. TECA#	+	H.I.	-	Elev.	
				(8.38)	☾

		3.21		(¹¹ 8.59)	
--	--	------	--	-----------------------	--

			5.56	(⁶ 8.03)	
--	--	--	------	----------------------	--

T.B.M.
TECA#12

		5.53		(¹¹ 8.56)	
--	--	------	--	-----------------------	--

			3.18	(8.38)	☾
--	--	--	------	--------	---

T.B.M.
TECA#5

				8.38	
				0.00	

Corrid. for PT-227

Northern 8462.30051070

EASTERN 10166.54860649

Elev. 6.03

☾
☾

To. Bre. million P.C.
B. Lemoine &
J. D. Lecog &

August 3, 1994 13

Level/Lietz #13737 Cloudy & Cold Temp. 70°

(
(To B.M. JECA #5 For Elevation AND
Description see this Book Page - 7

To B.M. JECA #12 Top of 1/4" Rebar
FT # 207

(To B.M. JECA #5 For Elevation AND
Description see this Book Page - 7

(
(

14

Job# 94-C-0079

London Avenue Outfall CANAL
Vertical Control

STA. <small>To B.M.</small> JECA#4	+ H.I.	- Elev.
		(1.11)

6.13 (7.24)

<small>To B.M.</small> JECA#13		1.52 (5.72)
-----------------------------------	--	-------------

1.47 (7.19)

<small>To B.M.</small> JECA#4		6.08 (1.11)
		1.11
		0.00

CoOrd. PT#

Northern 7100.2258

Eastern 9634.1463

Elev. = 5.72

J. Gremillion
B. Lemoine
T. D. Lecocq

August 4, 1994 14

Level Lietz #13937

~
~ T.O.B.M. JECA #4 For Elevation
AND Description see this Book
Page 4

T.O.B.M. JECA #13 Top of 60 Penny
NAIL/WASHER

~
T.O.B.M. JECA #4 See This Book & Page

~
~

15

Job# 94C0079

London Avenue Out-fall CANAL
Vertical Control

STA T.O.B.M. JECA#6	+	H.I.	-	Elev.	☺
				(9.34)	☺

2.30 (11.64)

T.O.B.M. JECA#14				4.28 (7.36)	
---------------------	--	--	--	-------------	--

4.14 (11.50) ☺

T.O.B.M. JECA#6				2.16 (9.34)	
				9.34	
				0.00	

Corrida PT# 210
 Northern = 8458.43969403 ☺
 Eastern = 9966.79993491 ☺
 Elevation = 7.37

Next Page

J. Gremillion P.C.
B. Lemoine T.
L. Jones

August 8, 1994 ¹⁵

Level Lietz #13737 Clear & Hot Temp. 89°

~
REMARKS:

~ T.O.M. JECA #6 FOR ELEVATION AND
DESCRIPTION see this Book Page- 7

T.O.M. JECA #14 Top of 60 Penny Nail
AND Washer @ Expansion Joint on
Concrete Walk.

~

T.O.M. JECA #6 FOR ELEVATION AND
DESCRIPTION see this Book Page- 7

~

~

Job # 94C0079

London Avenue Outfall CANAL
Vertical Control Loop

STA	+	H.I.	-	Elev.
To B.M. JECA#10				-3.82

2.12 (-1.70)

To B.M. JECA#15-A				4.32 (-6.02)
----------------------	--	--	--	--------------

4.12 (-1.90)

To B.M. JECA#10				1.92 (-3.82)
				-3.82

Corrid. for PT# 239
 Northern = 6800.1740764
 Eastern = 9433.1189426
 Elev. = -6.02

J. Gremlion P.C.
B. Lemoine T
L. Jones

August 9, 1994 ¹⁶

Level/Litz 13737

Cloudy & Cool Temp. 80°

—

Remarks.

— T.B.M. JECA # 10 For Elevation
AND Description see this Book Pg-10

T.B.M. JECA # 15 Top of PK AND Washer
@ Concrete Sidewalk.

—

T.B.M. JECA # 10 For Elevation AND
Description see this Book Page-10

—

—

17

Job# 94C0079

London Avenue Outfall CANAL

Vertical Control Loop

STA.	+	H.I.	-	Elev.	
T.B.M. JECA# 2				(-1.18)	☺

	9.58	8.40			
--	------	------	--	--	--

T.B.M. JECA# 16			4.02	(4.38)	
--------------------	--	--	------	--------	--

	3.80	(8.18)			
--	------	--------	--	--	--

T.B.M. JECA# 2			9.36	(-1.18)	☺
				-1.18	
				0.00	

Coord. for PT

Northern

EASTERN

Elev. = 4.38

☺
☺

~

REMARKS:

~ T.B.M. JECA#2 FOR ELEVATION AND DESCRIPTION THIS BOOK PAGE - 3

T.B.M. JECA#16 TOP OF BRASS CAP @ EASTSIDE OF LONDON CANAL @ LCE#16

~ T.B.M. JECA#2 FOR ELEVATION AND DESCRIPTION THIS BOOK PAGE - 3

~

~

Job # 94-C-0079
 London Avenue Outfall CANAL
 Vertical Control Loop

STA. +	H.I. -	Elev.
T.B.M. JECA#16		(4.38)

2.90 (7.28)

T.B.M. JECA#17		3.46 (3.82)
-------------------	--	-------------

3.23 (7.05)

T.B.M. JECA#16		2.67 (4.38)
		4.38
		0.00

Corrid. for PT# 283

Northern = 5359.12212399
Eastern = 9286.23545322
Elev. = 3.82

Next Page

J. Gremillion P.C.
Bolemaoine
Le Toures

August 10, 1994¹⁸

Level Lietz #13737 Clear Hot Temp. 90°

REMARKS:

~ T.B.M. JECA #16 For Elevation AND
Description See This Book Page 17

T.B.M. JECA #17 Top of 60 Penny Nail
AND WASHER @ 11700 Eastside E/C

~
T.B.M. JECA #16 For Elevation AND
Description See This Book Page 17

CELMN-CD-NO (1180-1-1q)

DATE: 16 November 1994
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave., Contract #03

Attached are original field notes on stations _____

Attached are final field notes on stations _____

Attached are original data for settlement plates for
stations _____

Attached are final data for settlement plates for
stations _____

Attached is additional information necessary for
calculation quantities on subject job.

The attached data is the last data necessary for
computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

Additional Comments: Attached are the Contractor's Original
Field Notes for the T.B.M. Level Loops, that were run from PBM
P-153 to TBM's #01 and #02, and back to PBM #P-153. Notes were
taken from Contr's Book #01, pages #01 thru #03.

Attch

John S. Norton 12/2/94
CHESTER ASHLEY
Area Engineer
Jon New Orleans Area Office

CF: Project Engineer (Bryant)
Office Tech (Bruno/Urban)

OFFICE ENGR SECTION
NOAO
Checked by: LB
Date: 11-29-94

DACW29-94-C-0079

Lake Pontchartrain, Louisiana
and Vicinity Hurricane Protection
High Level Plan; Orleans Parish, LA.

London Avenue Outfall Canal,
Parallel Protection

Mirabeau Ave. to Robert E. Lee
West Bank
Mirabeau to Leon C. Simon
East Bank

T.B.M. Level Loop

Book #1
Pages #1 through #3

11-14-94
B+K Construction

Jerry Justice
James D. Dupont, QAR

P.S. 4-94-C-0079

T.B.M. 9488P (Lake Shore Drive to)
for London Ave. Canal (Leon C. Siman
Robert E. Lee)

Sta.	HT	Elev	B.M.
Lake Shore Drive Bridge at London Canal			11.270
	6.698	17.968	
T.P.#1		3.732	14.236
	4.300	18.536	
T.P.#2		4.402	14.134
	4.373	18.507	
T.P.#3		4.145	14.362
	4.409	18.771	
T.P.#4		4.617	14.154
	4.545	18.699	
T.P.#5		4.490	14.209
	4.339	18.548	
T.P.#6		4.137	14.411
	4.052	18.463	
T.P.#7		3.948	14.515
	1.209	15.724	
T.P.#8		5.499	10.225
	0.988	11.213	
T.P.#9		4.644	6.569
Side Shot - Check TBM by "SLOAN"		4.998	6.215
T.P.#	3.370		6.569
		9.939	

6.ven = 6.225
Error = 0.010'
T.P.#9

11-14-94

π - J. Justice
ø - S. Thome

Pt. Cloudy,
Warm +
Windy

← "P153" given on Contract Drawings
Page #1 of 73.

T.B.M. #1 Description - 'X' in concrete
sidewalk ± 16.5' East of East B.P.I.
at station 126+88.58 (Elev. +6.215)

← Check T.B.M. #1 at Leon C. Simon
and London Avenue Canal. Find 'X' in concrete
sidewalk at Southeast side of Bridge.

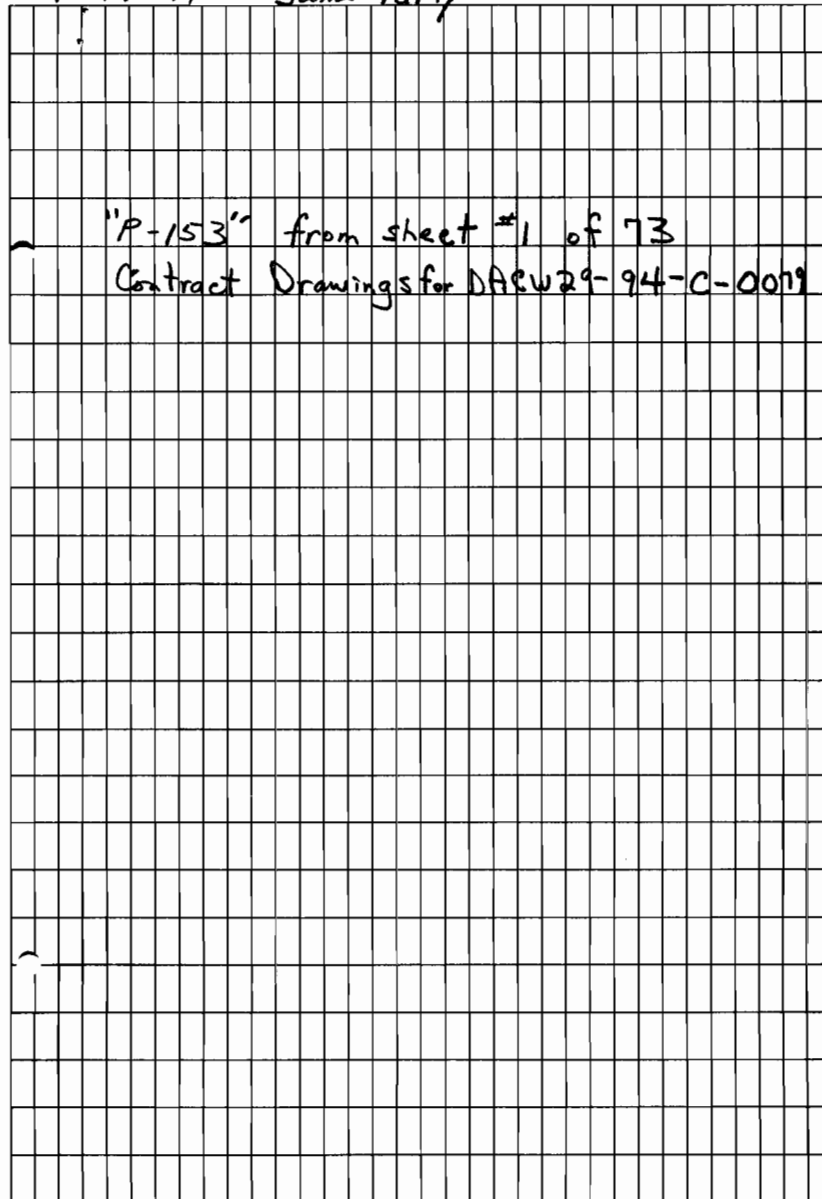
2 TBM LOOP (Continued from Page 1)					
Sta.	+	HI	-	Elev.	BM
		9.939			
Tie-in to TBM by "SLOAN"			4.898	5.041	Given = 5.035 Error = 0.006
		Break Set up			
	5.335			5.041	
		10.376			
T.P.#9			3.803	6.573	
	4.549	11.122			
T.P.#8			0.894	10.228	
	6.444	16.672			
T.P.#7			2.152	14.520	
	3.758	18.278			
T.P.#6			3.865	14.413	
	4.168	18.581			
T.P.#5			4.367	14.214	
	4.554	18.768			
T.P.#4			4.612	14.156	
	4.501	18.657			
T.P.#3			4.297	14.360	
	4.290	18.65			
T.P.#2			4.518	14.132	
	4.431	18.563			
T.P.#1			4.332	14.231	

11-14-94

Same Party

2

← Tie-IN to TBM #2 at Robert E. Lee
and London Avenue Canal. Find 'X' in
sidewalk at Southeast side of
Bridge $\pm \frac{36.5}{38}$ East of Bridge
abutment (East side). (Elev. +5.041)



"P-153" from sheet #1 of 73

Contract Drawings for DA#W29-94-C-0019

CELMN-CD-NO (1180-1-1q)

DATE: 29 November 1994
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave., Contract #03

Attached are original field notes on stations _____

Attached are final field notes on stations _____

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stations _____

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calculation quantities on subject job.

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computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

Additional Comments: Attached are the Contractor's Original
Field Notes for TBM's #1-A, #2-A, #2-F, #2-G, #2-H, #3-A, #3-B,
#3-C, #3-D and #4 for this project on East Levee. Notes were
taken from Contr's Book #01, pages #06 thru #10.

Attech

John J. Mathis 12/5/94
CHESTER ASHLEY
Joe Area Engineer
New Orleans Area Office

DACW29-94-C-0079

Lake Pontchartrain and Vicinity
Hurricane Protection
High Level Plan
Orleans Parish, LA.

London Ave. Outfall Canal,
Parallel Protection
Mirabeau Ave. to Robert E. Lee Blvd. ^{WEST} BANK
Mirabeau Ave. to Lem C Simon Blvd., ^{EAST} BANK

BOOK # 1
Pages # 6 and # 7

T.B.M. Level Loop
Pump. Sta. # 4 to Filmore Ave.
East Bank

11-16-94

B+K Construction Jerry Justice

OFFICE ENGR SECTION NOAO	
Checked by:	<u>05H</u>
Date:	<u>12-5-94</u>

Sta.	T.B.M.	Level	Loop	(Pump. Sta. #4 to Filmore Ave)	Elev	B.M.
	0.002					-0.635
		-0.633				
T.P.#1			5.438		-6.071	
	7.439	1.368				
T.P.#2			0.212		1.156	
	9.216	10.372				
T.P.#3			5.598		4.774	
	3.901	8.675				
Set New TBM #2-F			7.835		0.84	#2-F ←
T.P.#4			3.639		5.036	
	3.872	8.908				
T.P.#5			4.266		4.642	
Set New T.B.M. #2-G			9.033		-0.125	#2-G ←
	4.437				4.642	T.P.#5
		9.079				
T.P.#6			3.777		5.302	
	4.888	10.190				
Set New TBM #3-A			0.315		9.875	#3-A ←
Check TBM by OTHERS?			0.793		9.397	60d nail* ← in P. Bldg
— BREAK SET UP —						
	0.689				9.875	TBM 3-A ←
		10.564				
T.P.#6			5.262		5.302	
	3.718	9.020				

11-16-94
T.D. - Justice Clear + 6
D - Thome Cool

← TBM # 2-E From Page # 4 (this book)

← Set New TBM # 2-F at ± Station 91+25
East B. (Elev + 0.84) Top of Elect.
Manhole Ring - Find yellow 'X' at West Side
of Manhole Ring approx 1.5' East of ^{Safety} Fence.

← Set New TBM # 2-G at ± Sta. 92+25
East B. (Elev. - 0.125) Top of 3/4"
Iron Pipe ± 6" East of Safety Fence.

← Set New TBM # 3-A at ± Sta. 85+25 East B.
Yellow 'X' on Cons. Wall at Filmore Ave. Bridge Abutment
NORTH-WEST CORNER OF BRIDGE OVER LONDON AVE.
EAST CANAL

* Check TBM marked "6" by others at
± Sta. 85+20 East B.; Nail in P. Pole
approx. 20' East of East B. (Found Elev. 9.397)

← Set New T.B.M. #2-H at Sta. 88+50
East E, (Elev. +0.166) Top of 3/4"
Iron Pipe ± 6" East of Safety Fence.

← Check T.B.M. marked "#10" set by others.
Found Nail in R. Pole at Sta. 102+65 ±
East E, between Warrington Drive and
Sidewalk on the West Side of Street.

Closed Loop back to T.B.M.
#2-E, Error = 0.004'

DACW29-94 - C-0079
Lake Pontchartrain and Vicinity
Hurricane Protection
High Level Plan
Orleans Parish, LA.

London Ave. Outfall Canal, Parallel Protection
Mirabeau Ave. to Robert E. Lee Blvd, West Bank
Mirabeau Ave. to Leon C. Simon Blvd, East Bank

BOOK # 1
Page # 8

T.B.M. Level Loop

11-17-94

B+K Construction - Jerry Justice

8 T.B.M. Level Loop (At Leon C. Simon Blvd.)

Sta.	+	H.I.	-	Elev.	B.M.
T.B.M. #1	5.710				6.215
		11.925			
Set New T.B.M. #1-A			0.855	11.070	#1-A ←
Break set up					
T.B.M. #2-A	0.683			11.070	
		11.753			
Tie-in to T.B.M. #1			5.540	6.213	Given = 6.215 Error = 0.002'

T.B.M. Level Loop (At Robert E. Lee Blvd.)

Sta.	+	H.I.	-	Elev.	B.M.
T.B.M. #2	5.722				5.041
		10.763			
Set New T.B.M. #2-A			1.442	9.321	#2-A ←
Break set up					
	1.605			9.321	
		10.926			
Tie-in to T.B.M. #2			5.887	5.039	Given = 5.041 Error = 0.002'

11-17-94

J. Justice
S. THOME

← T.B.M. #1 from Book #1, Page #1
 (at Leon C. Simon Blvd.)

← Set New T.B.M. #1-A (Elev. 11.070) on top
 of Southeast anchor bolt at light
 pole on Southeast corner of Leon C.
 Simon Bridge over London Ave Canal
 Approx. station 127+00, ± 8.5'
 West of East Baseline.

11-17-94 Same Party

← T.B.M. #2 from Book #1, Page #2
 (at Robert E. Lee Blvd.)

← Set New T.B.M. #2-A (Elev. 9.321) - Yellow
 Paint "X" on top of Concrete wing
 Wall at Bridge Abutment, Southeast
 corner of Robert E. Lee Bridge over
 London Avenue Canal (approx. 9.0'
 south of Bridge Gutter Line
 (South side))

DACW29-94-C-0079
Lake Pontchartrain, LA., and Vicinity
Hurricane Protection
High Level Plan
Orleans Parish, LA.

London Avenue Outfall Canal,
Parallel Protection
Mirabeau to Robert E. Lee, West Bank
Mirabeau to Leon C. Simon, East Bank

BOOK # 1
Pages # 9 + # 10

T.B.M. Level Loop

11-18-94

B+K Construction - Jerry Justice

DACW 29-94-C-0079

T.B.M. Loop (Filmore Ave. to Mirabeau Ave)

Sta.	+	HI	-	Elev.	B.M.
	0.572				9.875
		10.447			
T.P. #1			5.207	5.240	
	4.067	9.307			
Set New T.B.M. #3-B			9.202	+0.105	#3-B ←
T.P. #2			4.328	4.979	
	4.133	9.112			
T.P. #3			3.439	5.673	
	4.193	9.866			
Set New T.B.M. #3-C			9.796	+0.070	#3-C ←
T.P. #4			4.590	5.276	
	3.757	9.033			
			1.660	1.373	#3-D ←
	5.433	12.806			
Set New T.B.M. #4			0.852	11.954	#4 ←
		Break	Set Up		
T.B.M. #3-D	1.868			7.373	#3-D ←
		9.241			
T.P. #4			3.942	5.279	
	5.061	10.340			
T.P. #3			4.663	5.677	
	3.885	9.562			
T.P. #2			4.578	4.984	

← T.B.M. # 3-A from Page # 6 of Book # 1
(at Filmore Ave. Bridge)

~ set New T.B.M. # 3-B (Elev. 70.105)
at ± Station 80+40 East B. Top
of 3/4" Iron Pipe ± 6" East of Safety Fence.

set New T.B.M. # 3-C (Elev. 6.070) at ± Sta.
25+20 East B. Top of 3/4" Iron Pipe
± 6" East of Safety Fence.

set New T.B.M. # 3-D (Elev. 7.373) at
± Sta. 69+93 East B. Top of 3/4" Iron
Pipe in Levee Crown ± 4" East of Exist. Flood
(From Land Side Edge) Wall

← Set New T.B.M. # 4 (Elev. 11.954) at
± Sta. 69+85 East B. "X" in Concrete
Gaurdrail at N.E. corner of Mirabeau
Ave. Bridge over London Ave. Canal
(and Marked with white paint and no. 8)
± 3.5' West of Exist. Concr. Floodwall
(From Land Side Edge of Wall)

11-18-94

Same Party

clear + 10
mild

← T.P. #2 from Page #9

(From Page #6
of Book #1)

Tie-in to TBM #3-A to close
loop. Error = 0.002'

94-C-0079

~~DACW-29-94-B-0047~~

(London Avenue Outfall
(CANAL

Vertical Control Loops

Book #1 Pages 1 to 11

Project # 94-B-0047

(John E. Chance & Assoc. Inc.

(J. Gremillion P.C.
(J. D. Lecoq Jr
G. Whitney Jr

1 Job# 94-B-0047
 London Avenue Outfall CANAL
 Level Peg

Sta	+	H.I.	-	Elev.	
To B.M. "A"				(10.00)	✓

3.972 (13.972)

To B.M. "B"				4.009 (9.963)	
----------------	--	--	--	---------------	--

4.860 (14.823)

To B.M. "A"				4.818 (10.005)	✓
				10.000	
				0.005	

✓
✓

J. Gremlion P.C.
J. D. Lecoq
G. Whitney

June 28, 1994

1

Level Lietz #13737 Clear & Hot Temp. 90°

REMARKS:

T.B.M. "A"

T.B.M. "B"

T.B.M. "A"

(

(

2

Job# 94-B-0047

London Avenue Outfall Canal

Sta.	+	H.I.	-	Elev.
B.M. P153				(11.270)

4.48 (15.75)

Topo			12.19	3.56
------	--	--	-------	------

5.10 8.66

Topo			3.48	5.18
------	--	--	------	------

5.93 11.11

Topo			5.28	5.83
------	--	--	------	------

3.71 9.54

Topo			5.29	4.25
------	--	--	------	------

4.03 8.28

Topo			4.96	3.32
------	--	--	------	------

4.33 7.65

Topo			5.65	2.00
------	--	--	------	------

10.27 12.27

T.B.M. LCE-18			5.80	(6.47)
------------------	--	--	------	--------

T.B.M. JECA#1	0.66	(7.13)		
------------------	------	--------	--	--

T.B.M. JECA#1			8.86	(-1.73)
------------------	--	--	------	---------

Next Page

REMARKS:

- B.M. P-153 See Solicitation #
- DACW29-94-B-0047 Dwg 1 of 73
- Elevation in N.G. V.D. Epoch 1964

Turning Point

" "

" "

" "

" "

" "

To B.M. LCE-18 Top of BRASS Cap @ Edge
 of Concrete Walk @ STA. 126+88.15

To B.M. JECA #1 G.I. spike set @ West side
 of PIP @ East Bank of Canal @ STA. 126+50 @
 London Drive

3

Job# 94-B-0047
Vertical Control Loop

Sta. + H.I. - Elev.
T.B.M. JECA#1 (-1.73)

2.93 1.20

T.P. 4.36 -3.16

T.B.M. JECA#2 4.87 1.71 2.89 (-1.18)

T.B.M. JECA#3 12.07 (10.89) 0.70 (10.19)

0.53 10.72

T.P. 4.98 5.74

T.B.M. 115100 4.89 10.63 5.42 5.21

T.P. 4.87 10.08 5.21 4.87

5.90 10.77

T.P. 4.86 5.91

T.B.M. LCE#11 3.76 (9.67) 4.14 (5.53)

Next Page

Same Crew

6/28/94

3

REMARKS:

T.B.M. JECA #1 Elevation carried from
Pg-2

Turning Point

T.B.M. JECA #2 100 Penny Nail @ West
Side of Power pole @ STA. 120469 @ East
Side of CANAL

T.B.M. JECA #3 Chisled Square @ West
end of Concrete GAUGED RAIL @ N.W.
Corner @ Expansion Joint @ STA. 120100

Turning Point

T.B.M. 115400 @ E of I-WALL 1/4" Re-Bar

Turning Point

"

"

T.B.M. ICE #11 Top of BRASS Cap @ West BANK
of London CANAL @ STA.

4

Job# 94-B-0047
Vertical Control Loop

STA. To B.M. No. LCE#11	+	H.I.	-	Elev.	
				(5.53)	☺
	0.93	(6.46)			☺
T.P.			9.55	-3.09	
	5.02	(1.93)			
To B.M. No. JECA#4			0.82	(1.11)	
	0.79	1.90			
T.P.			4.99	-3.09	☺
	9.48	6.39			
T.P.			0.87	5.52	
	4.08	9.60			
T.P.			3.70	5.90	
	4.84	10.74			
T.P.			5.87	4.87	
	5.17	10.04			☺
T.P.			4.83	5.21	☺
	5.37	10.58			☺
T.P.			4.84	5.74	
	4.93	10.67			
T.P.			0.48	10.19	
		Next Page			

REMARKS:

- To B.M. LCE#11 ELEVATION CARRIED
- From Page - 3

Turning Point

To B.M. JECA#4 G.I. spike set @ East Side of PIP# 13537 @ West Bank of Canal @ Sta. 101400

- Turning Point

"

"

"

"

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"

"

Elev. CARRIED to Pg - 5

5	Job # 94-B-0047				
London Avenue Outfall CANAL					
STA.	+	H.I.	-	Elev.	
T.P.				(10.19)	
	0.65	10.84			
T.P.			12.02	-1.18	
	2.84	1.66			
T.P.			4.82	-3.16	
	4.32	1.16			
T.P.			2.89	-1.73	
	8.82	7.09			
T.P.			0.62	6.47	
	5.70	12.17			
T.P.			10.16	2.01	
	5.61	7.62			
T.P.			4.30	3.32	
	4.91	8.23			
T.P.			3.98	4.25	
	5.24	9.49			
T.P.			3.66	5.83	
	5.24	11.07			
T.P.			5.90	5.17	
	3.45	8.62			
T.P.			5.07	3.55	
	12.10	(15.65)			
Next Page					

to Greemillion P.C.
to D. Lecog &
to Whiteley &

JUNE 29, 1994

5

Level List #13737 Cloudy & Hot Temp. 90°

REMARKS:

Elevation CARRIED FROM Pg-4

TURNING POINT

"

"

"

"

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"

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"

"

H.O. CARRIED TO PAGE-6

6

Job# 94-B-0047

Vertical Control Loop

Stn.	+	H.I.	-	Elev.
		(15.65)		
B.M. P153			4.39	(11.26)
				11.27
				-0.01

Vertical Control Loop for the
Distance of 4.0 Miles

Next Page

SAME Crew

6/29/94

6

REMARKS:

- H.T. CARRIED FROM Pg-5
- B.M. P-153 FOR ELEVATION AND
- DESCRIPTION OF THIS WORK PAGE-2

-

-

-

7

Job# 94-B-0047

London Avenue Outfall CANAL

Sta. + H.I. - Elev. (1.11)
T.B.M. JECA#4

8.71 (9.82) 3.97 (5.85)
T.B.M. 100+00

4.46 (10.31) 4.17 (6.14)
T.P.

5.00 11.14 4.84 6.30
T.P.

5.03 11.33 2.95 (8.38)
T.B.M. JECA#5

4.99 (13.37) 4.03 (9.34)
T.B.M. JECA#6
T.B.M. JECA#6

4.15 (13.49) 8.13 (5.36)
T.B.M. L/E#9

2.98 (8.34) 2.16 (6.18)
T.P.

Next Page

J. Gremlion P.C.
J. D. Lecog
G. Whitney

JUNE 30, 1994

7

Level Lietz # 13737 Clear Hot Temp. 85°

REMARKS:

~ To B.M. JECA #4 For Elevation and Description
see this Book Page-4

~ To B.M. 100+00 Top of 1/4" Rec-EAR @ STA. 100+00
@ West Bank of CANAL

Turning Point

"

"

~ To B.M. JECA #5 Go To spike set @ East
Side of P/P @ STA. 85+00 @ West Bank
of CANAL NEAR Concrete Sidewalk.

To B.M. JECA #6 100 Penny Nail set @ West
side of P/P @ STA. 85+18 @ EAST BANK
of CANAL NEAR edge of ROAD

~ To B.M. LCE #9 @ West Bank of CANAL

ELEVATION CARRIED TO PAGE-8

Same Crew

6/30/94

8

REMARKS:

Elev. CARRIED FROM PAGE-7

- TURNING POINT

"

"

T.B.M. JECA #7 100' Penny Nailset @ East
Side of PIP @ West Bank of CANAL @
STATION 70+35

- T.B.M. JECA #8 Chisled Square @ East
Side of CANAL @ South West Corner of
Concrete Abutment GAUGE RAIL @ STATION
69+00

TURNING POINT

"

"

"

"

"

"

H.I. CARRIED TO PAGE-9

Same Crew

6/30/94

9

REMARKS:

H.I. CARRIED FROM PAGE-8
TURNING POINT

(
" "

" "

" "

" "

(
" "

" "

To B.M. JECA #4 FOR ELEVATION AND
DESCRIPTION ~~see Book~~ see this Book
PAGE-7

(

(

10

Job # 94-B-0047

VERTICAL CONTROL LOOP

STA.	+	H.I.	-	Elev.
T.B.M. JECA#6				(9.34)
	1.86	(11.20)		
T.P.			5.25	(5.95)
	3.34	9.29		
T.P.			4.27	5.02
	3.95	8.97		
T.P.			4.61	4.36
	4.98	9.34		
T.B.M. LCE#13			3.39	5.95
	5.62	11.57		
T.B.M. LCE#14			5.11	(6.46)
	2.78	(9.24)		
T.B.M. JECA#9			14.65	(-5.41)
	4.73	-0.68		
T.B.M. JECA#10			3.14	(-3.82)
	10.74	(6.92)		
Next Page				

Remarks:

Top of JECA #6 For Elevation and
Descr - see this Book Page - 7

Turning Point

" "

" "

Top of LCE #13 Top of BRASS CAP @ East
Side of CANAL

Top of LCE #14 Top of BRASS CAP @ East
Side of CANAL

Top of JECA #9 Top of PK Nail with WASHER
@ Asphalt Road on WARRINGTON ST.

Top of JECA #10 100' Penny Nail set in PIP @ 2.10'
Above Ground @ West Side of Job @
Sta. 102+6.2 @ East Bank of CANAL
H. I. carried to Pg - 11

11

Job# 94-B-0047

Vertical Control Loop

Sta	+	H.I.	-	Elev.	
T.B.M. JECA#15		(6.92)		2.43 (4.49)	✓
	2.34	(6.83)			✓
T.P.			10.65	-3.82	
	3.07	-0.75			
T.P.			4.67	-5.42	
	14.59	9.17			
T.P.			2.72	6.45	
	5.08	11.53			
T.P.			5.58	5.95	✓
	3.25	9.20			
T.P.			4.83	4.37	
	4.55	8.92			
T.P.			3.90	5.02	
	4.22	9.24			
T.P.			3.28	5.96	
	5.21	11.17			
T.B.M. JECA#6			1.82	(9.35)	✓
				9.34	✓
				0.01	

Vertical Control Loop for the Dist. of

REMARKS:

H.I. CARRIED FROM PAGE-10

~ T.B.M. LCE #15 TOP OF BRASS CAP @

~ EAST SIDE OF CANAL

TURNING POINT

" "

" "

" ~ "

" "

" "

TURNING POINT

~ T.B.M. JECA #6 FOR ELEVATION AND

~ DESCRIPTION SEE THIS BOOK PAGE-10

1.0 Miles

94-C-0079
~~DACW 29-94-B-0047~~

(
(
(
London Avenue Outfall
CANAL

B/L + C/L TRAVERSE

Book # 2

Pages 1 thru 23

Project # 94-B-0047

(
(
John E. Chance & Assoc. Inc.

J. Gremillion P.C.

J.D. Lecoq

G. Whitney

1 Job# 94-B-0047
 London Avenue Out Fall CANAL
 TRAVERSE OF B/L AND 1/4 I-WALL

T@LCE#10=69+15.97 ¹⁹ ✓

B.S. LCE#8 69+40.25	D 00-00- 82 ⁰⁵	R 180-00-10	✓
---------------------------	---	----------------	---

F.S. C/L 70+26.77	91-10-12 91-10-07	271-10-22 91-10-12	
-------------------------	----------------------	-----------------------	--

mean = 91-10-09.5
 Dist. = 110.84'

Dist. from LCE#10 to LCE#8 = 141.68' ✓

T@1/4 I-WALL 70+26.77 ²⁰ 1/4" Rec-BAR

B.S. LCE#10 69+15.97	D 00-00-05	R 180-00-10	
----------------------------	---------------	----------------	--

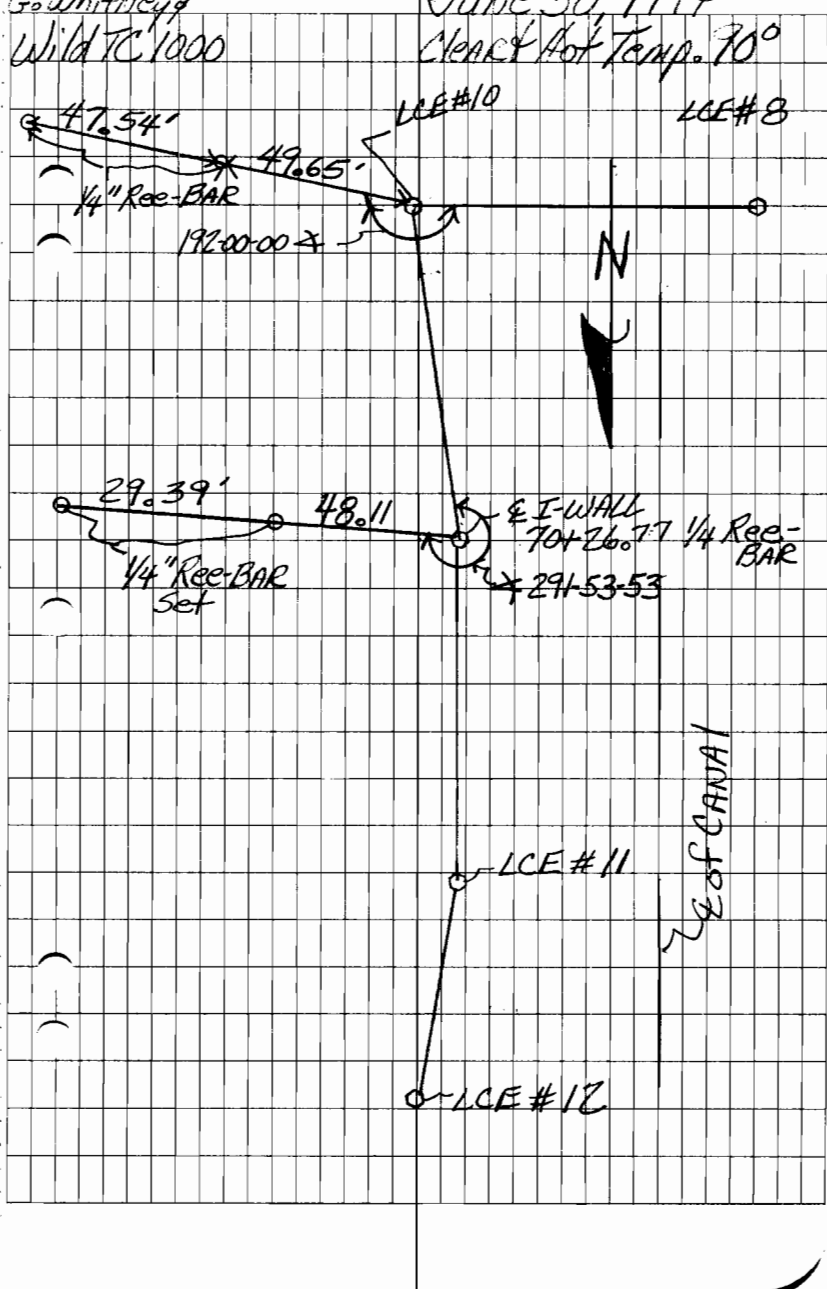
F.S. LCE#13 LCE#11 84+02.42	181-25-06 181-25-01	01-25-13 181-25-03	✓ ✓
--------------------------------------	------------------------	-----------------------	--------

mean = 181-25-02
 Dist. = 1375.65

Next Page

J. Gremlion P.C.
J.D. LeCoq &
G. Whitely &
Wild TC 1000

June 30, 1994 **1**
Clear Hot Temp. 70°



2

Job# 94-B-0047

TRAVERSE of B/L & C/L I-WALL

T@LCE#11=84+02.42

21

B.S.
C/L
70+26.77

D
00-00-05

R
180-00-10

F.S.
C/L
84+20.31

167-03-14
167-03-09

347-03-25
167-03-15

MEAN ± 167-03-12
Dist. = 18.32'

T@C/L I-WALL 84+20.31

22

B.S.
LCE#11
84+02.42

D
00-00-05

R
180-00-10

F.S.
C/L I-WALL
84+31.10

192-49-11
192-49-06

12-49-14
192-49-04

MEAN ± 192-49-05
Dist. = 10.77

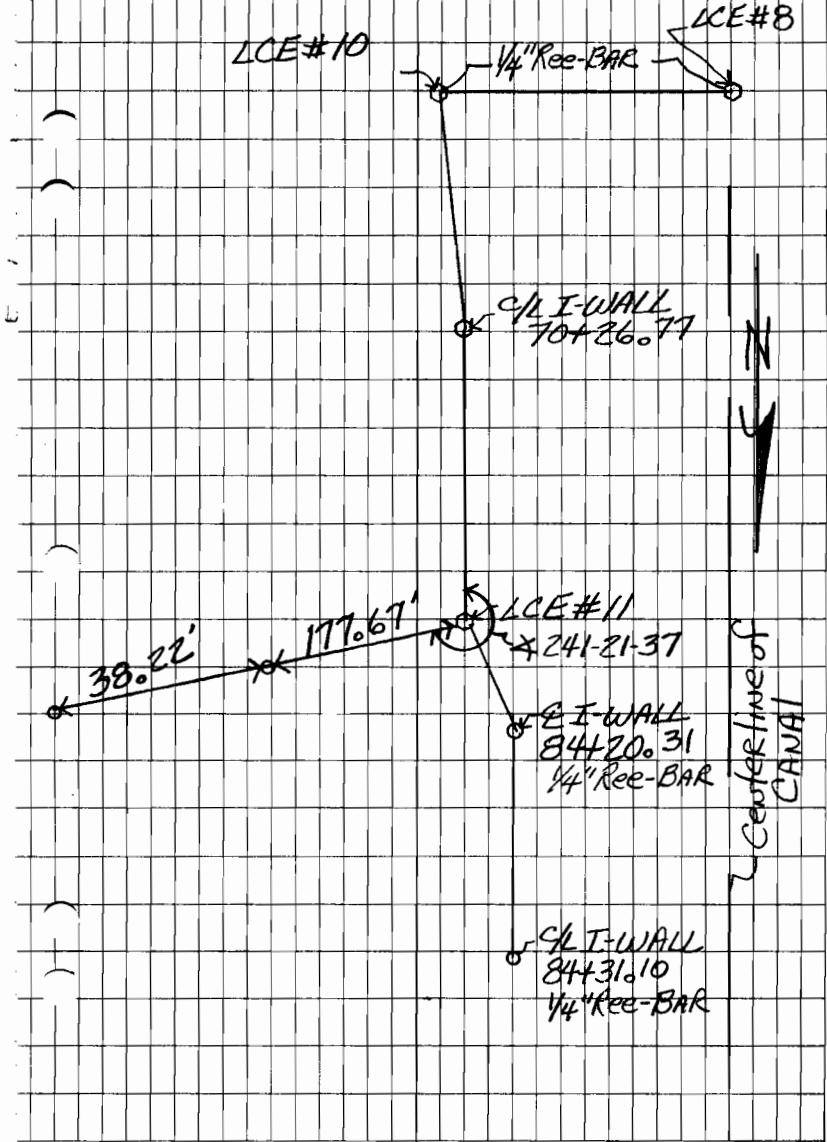
Next Page

SAME CREW

6/30/94

2

Note: All Reference Marks 1/4" Rebar Set



3

Job # 94-B-0047

TRaverse of E/L + 1/2 I-WALL

T@ 1/2 I-WALL 84+31.10

43

B.S.
E/L
84+20.31

D
00-00-05

R
180-00-10

F.S.
LCE #12
84+71.30

185-56-39
185-56-34

05-56-48
185-56-38

mean = 185-56-36
Dist. = 40.39

T@ LCE #12 = 84+71.30

B.S.
1/2 I-WALL
84+31.10

D
00-00-05

R
180-00-10

F.S.
1/2 I-WALL
85+54.63

172-49-09
~~174-23-30~~
~~174-23-25~~
172-49-04

352-49-11
~~354-23-26~~
~~174-23-16~~
172-49-01

mean = ~~174-23-20.5~~ 172-49-02.5
Dist. = ~~83.24~~ 83.26'

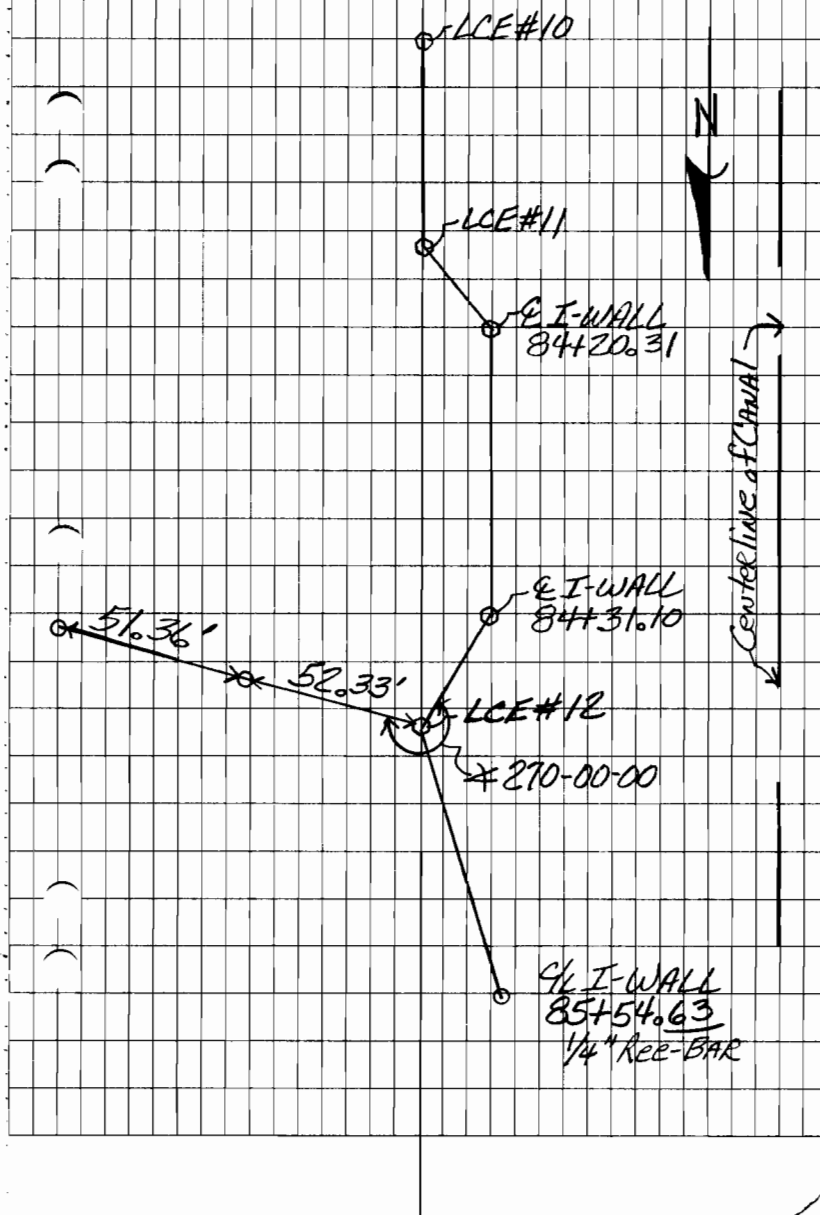
Next Page

SAME CREW

6/30/94

3

Note: ALL REFERENCE MARKS SET 1/4" REE-BAR



4

Job 94-B-0047

TRAVERSE of E/L & C/L I-WALL

T@ C/L I-WALL 85+54.63

25

B.S.
LCE#12
84+71.30

D
00-00-05

R
180-00-10

181-41-37

181-41-51

F.S.
LCE-13
99+96.67

181-41-42

01-42-01

mean * 181-41-~~44~~

Disto 1442.09

* T@ LCE#13 = 99+96.67

Sideshot ①

B.S.
E I-WALL
85+54.63

D
00-00-05

R
180-00-10

E I-WALL
99+69.22
②

18-31-32

198-31-28

18-31-27

18-31-18

mean * 18-31-22.5

Disto = 28.89'

Sideshot to E I-WALL

Next Page

J. Gremillion P.C.
B. Lemoine T.
G. Whitkey P.

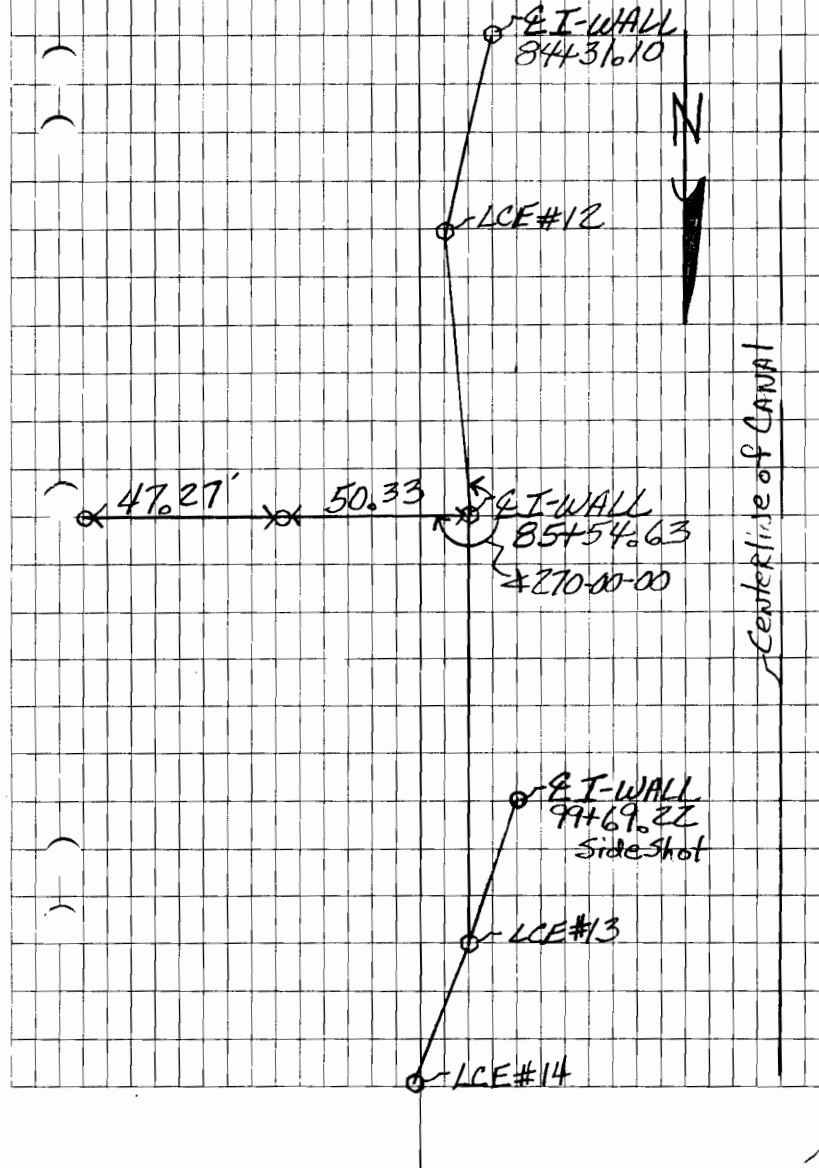
July 5, 1994

4

Wild TC-1000

Clear Hot Temp. 90°

Note: All Reference Marks set 1/4" Rec-Bar



5

Job# 94-B-0047

TRANSVERSE of B/L AND 9/6 of I-WALL

T@LCE#13=99+96.67

26

B.S.
I-WALL
85+54.63

D

R

00-00-05

180-00-10

216-46-14

216-46-09

F.S.
LCE#14
100+43.44

216-46-19

36-46-19

mean \pm 216-46-11.5

Dist. = 46.77

T@LCE#14=100+43.44

27

B.S.
LCE#13
99+96.67

D

R

00-00-05

180-00-10

F.S.
T.B.M. 9 =
PT-A

~~240-18-48~~

240-18-48

60-19-04

240-18-43

240-18-54

mean \pm 240-18-48.5

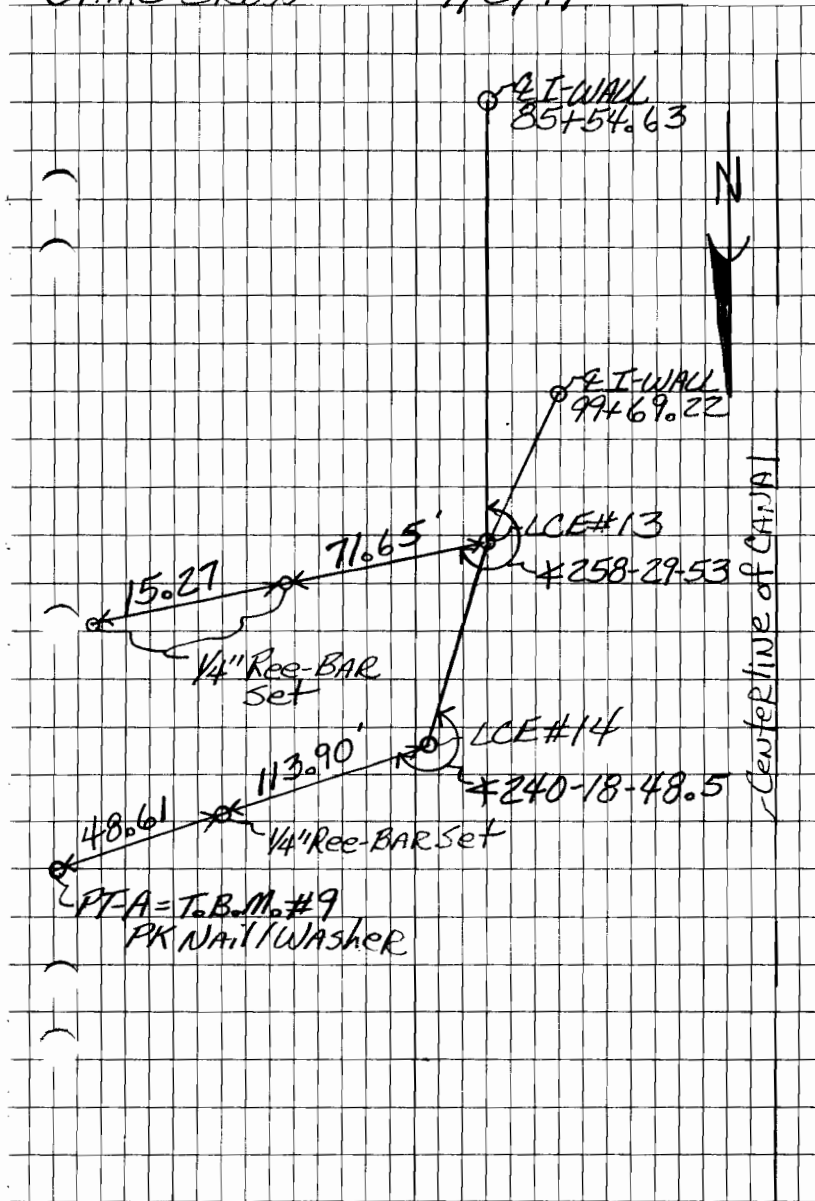
Dist. 162.51

Next Page

Same Crown

7/5/94

5



6

Job# 94-B-0047

TRAVERSE of B/L & C/L I-WALL

T@ PT-A				28
B.S.	D		R	
LCE#14 10243.44	00-00-05		180-00-10	
	76-45-51		76-45-53	
F.S.				
PT-B	76-45-56		256-46-03	
MEAN \neq 76-45-52				
Dist. = 252.70'				

T@ PT-B				29
B.S.	D		R	
PT-A	00-00-05		180-00-10	
	86-26-43		86-26-43	
F.S.				
LCE#15 102448.69	86-26-48		266-26-53	
MEAN \neq 86-26-43				
Dist. = 171.74'				

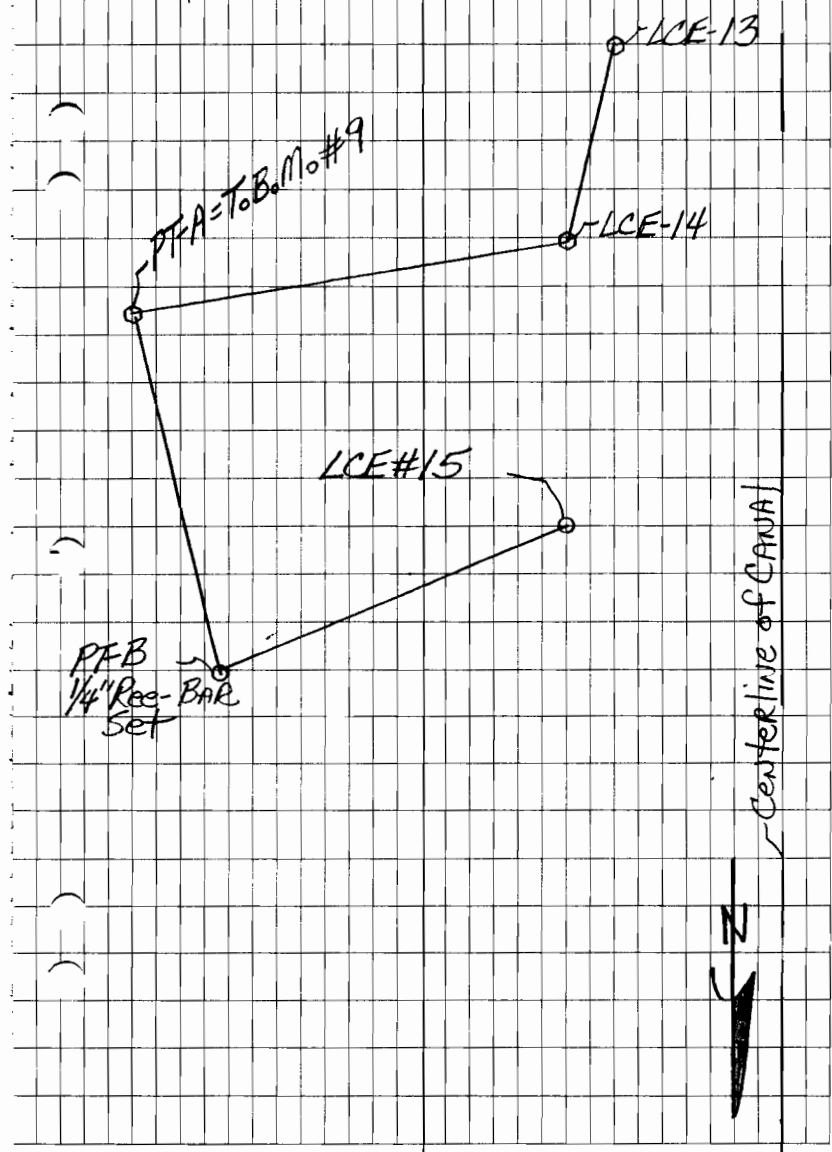
Next Page

SAME CREW

7/5/94

6

Note



7

Job# 94-B-0047

Traverse of B/L + C/L I-WALL

* Side Shot

T@ LCE# 15 = 102+48.69

B.S. D R

PT-B 00-00-05 180-00-10

252-01-34 252-01-33

~~252-02-04~~ ~~72~~

F.S. 252-01-39 72-01-43
C/L I-WALL 252-02-09 72-03-14
102+67.72

(3)

MEAN = 252-01-33.5

Dist. = 21.58'

30

T@ LCE# 15 = 102+48.69

B.S. D R

PT-B 00-00-05 180-00-10

279-29-48 279-29-53

F.S. 279-29-53 99-30-03
LCE# 16
119+16.35

MEAN = 279-29-50.5

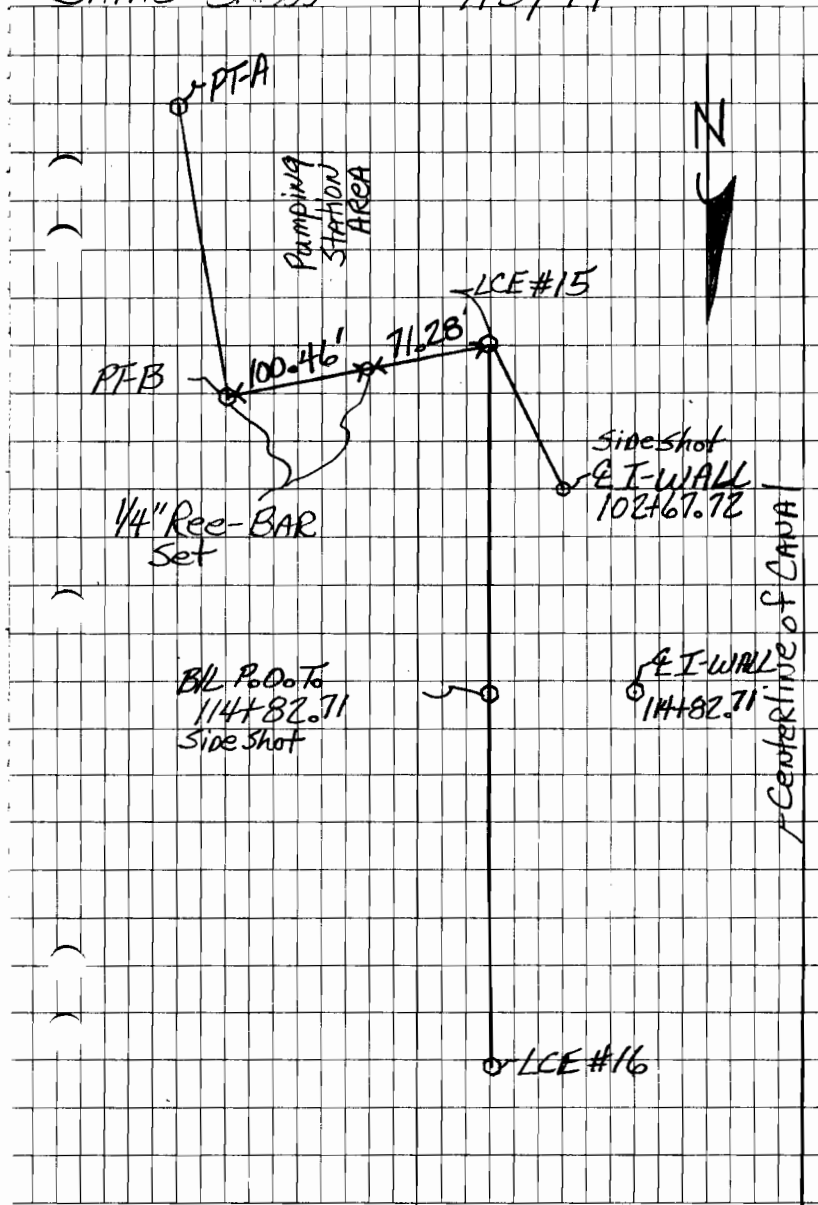
Dist. 1667.65'

Next Page

SAME CROW

7/5/94

7



8

Job# 94-B-0047

TRaverse of B/L + 1/2 I-WALL

* Side Shot on B/L

T@LCE#15 = 102+48.69

B.S.	D	R
PT-B	10-00-05	180-00-10
F.S.	279-28-28	279-28-31
B/L I-WALL 114+82.71	279-28-33	99-28-41
4		

MEAN \neq 279-28-29.5

Dist. = 1234.02

* Side Shot to 1/2 I-WALL

~~T@B/L I-WALL~~

T@B/L 114+82.71

B.S.	D	R
LCE#15 102+48.69	10-00-05	180-00-10
	89-58-27	89-58-35
F.S.		
1/2 I-WALL 114+82.71	89-58-32	269-58-45

5

MEAN \neq 89-58-31

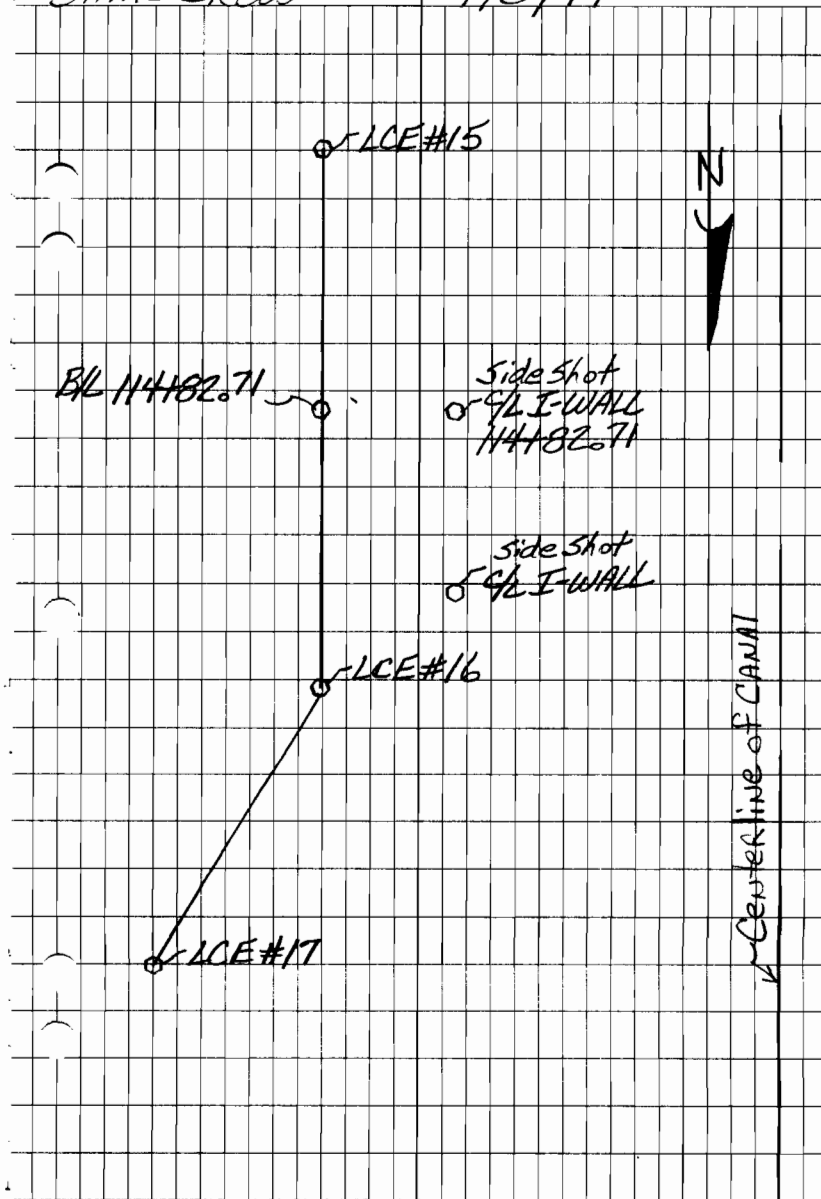
Dist. = 11.24'

Next Page

SameCrew

7/5/94

8



9

Job # 94-B-0047

TRAVERSE of BL & GL I-WALL

A Sideshot to GL I-WALL

T@LCE-16 = 119+16.35

B.S.
LCE#15

D

R

00-00-05

180-00-10

41-45-23

41-45-06

41-45-27

F.S.
E-I-WALL
119+03.06

41-45-28

41-45-11

221-45-37

6

MEAN 41-45-25

Dist = 17.67

A T@LCE#16 = 119+16.35

2

B.S.
LCE#15
102+48.69

D

R

00-00-05

180-00-10

199-41-23

199-41-08

F.S.
LCE#17
120+18.02

41-28
199-~~41-28~~

19-41-18

MEAN 199-41-15.5

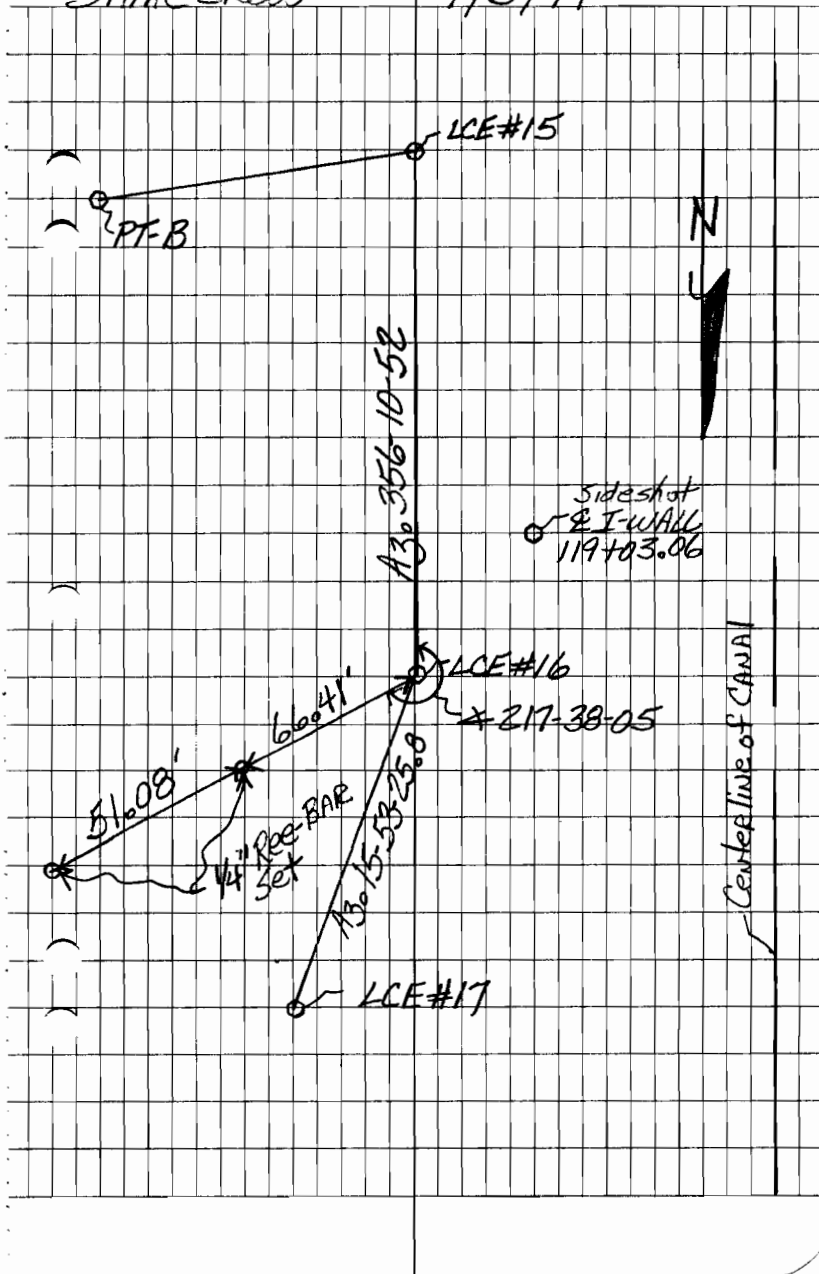
Dist = 102.44'

Next Page

SAME CROW

7/5/94

9



10

Job # 94-B-0047

Traverse of B/L AND 9L T-WALL

* Side Shot @ 9L T-WALL

T @ LCE-17 = 120+18.82

B.S.	D	R	
LCE#16 119+16.35	00-00-05	180-00-10	—
	149-26-34	149-26-44	

F.S.			
E T-WALL 120+49	149-26-39	329-26-54	

↑

MEAN ± 149-26-39

Dist. = 30.68'

* Side Shot @ E T-WALL

T @ LCE#17 = 120+18.82

B.S.	D	R	
LCE#16 119+16.35	00-00-05	180-00-10	
	159-27-45	159-27-43	

F.S.			
E T-WALL 126+6.5	159-27-50	339-27-53	—

(8)

MEAN ± 159-27-44

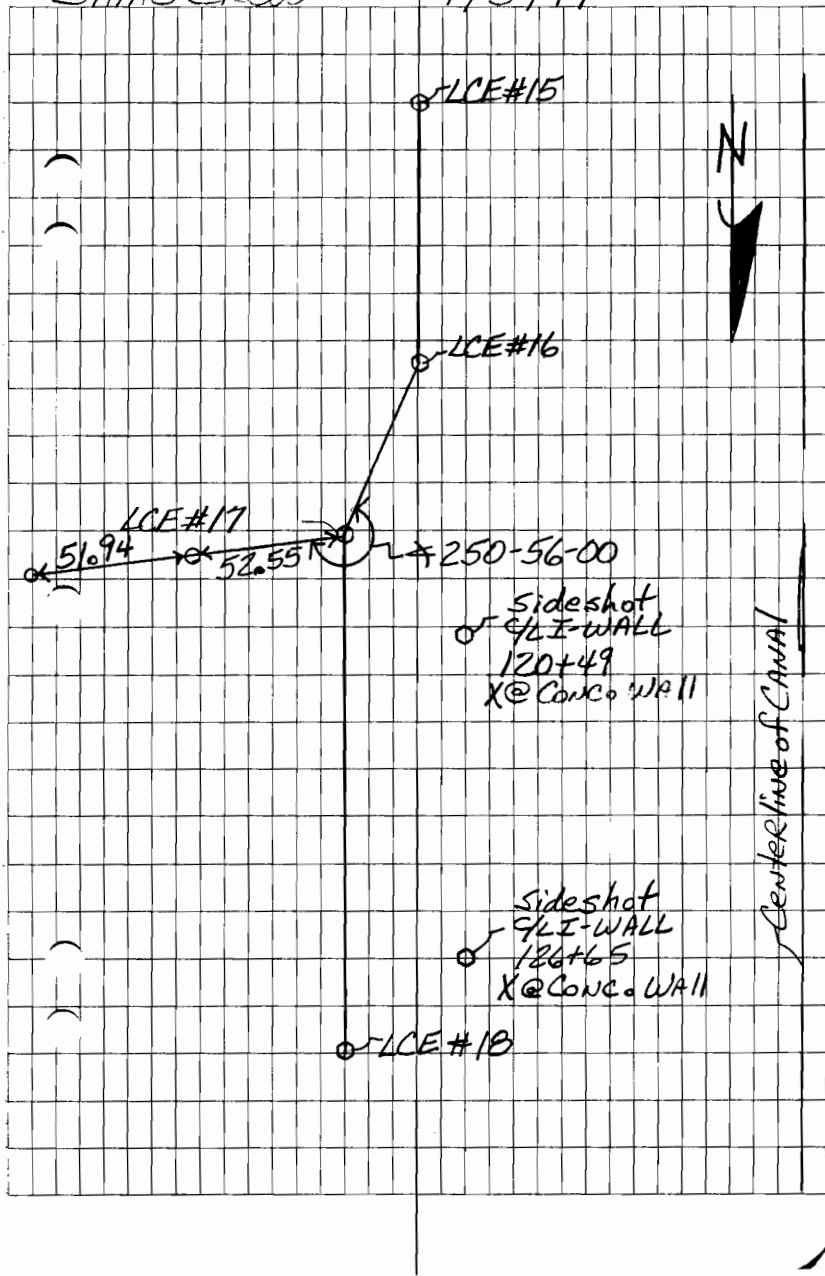
Dist. = 646.19

Next Page

Same Crew

7/5/94

10



11 Job # 94-B-0047
 TRAVERSE of 1/4 AND 3/4 I-WALL

T@LCE#17 = 120+18.82			3
B.S. LCE#16 119+16.35	D 00-00-05	R 180-00-10	☺
	159-51-27	159-51-39	
F.S. LCE#18 126+88.58	159-51-32	339-51-49	
MEAN ± 159-51-33			
Dist. = 669.75'			

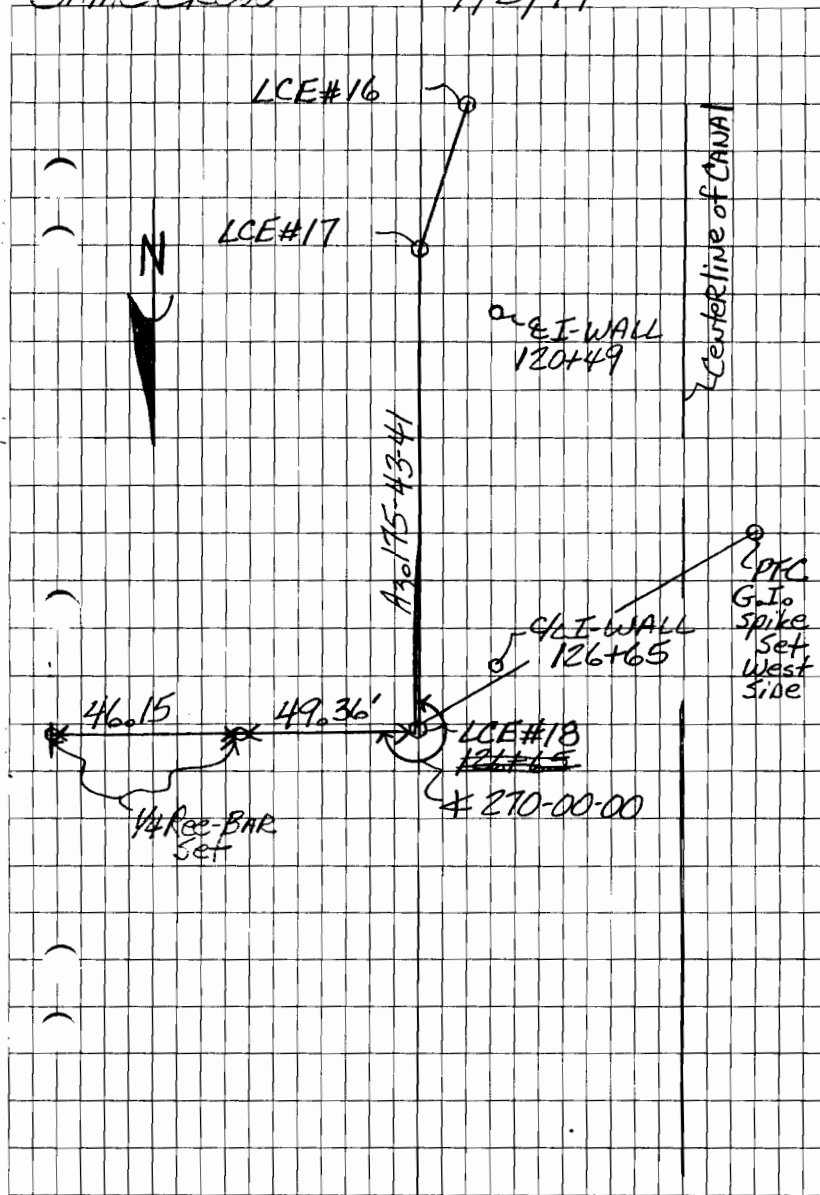
T@LCE#18 = 126+88.58			4
B.S. LCE#17 120+18.82	D 00-00-05	R 180-00-10	☺
	59-04-05	59-04-08	
F.S. PT-C	59-04-10	239-04-18	☺
MEAN ± 59-04-06.5			
Dist. = 353.71'			

Next Page

SAME CROW

7/5/94

11



TRAVERSE OF B/L AND G/L OF T-WALL

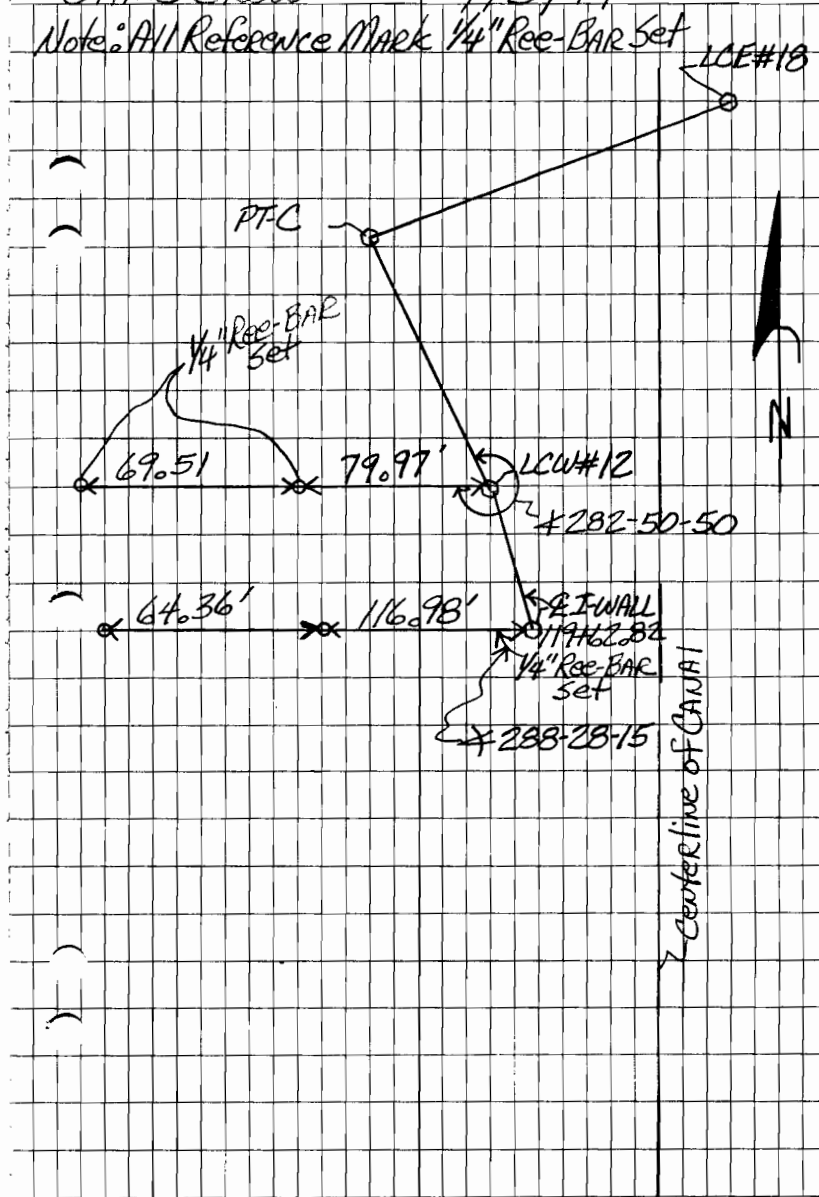
T@PFC			5
B.S. LCE # 18 126+88.58	D 00-00-05	R 180-00-10	☾
	109-42-40	109-42-40	☾
F.S. LW # 12 119+78.50	109-42-45	289-42-50	
MEAN * 109-42-40			
Dist. = 549.99'			
T@LW-1/2			6
B.S. PFC	D 10-00-05	R 180-00-10	
	177-15-32	177-15-31	
F.S. T-WALL 117+62.82	177-15-37	357-15-41	☾
			☾
MEAN * 177-15-31.5			
Dist. = 16.21'			
Next Page			

SAME CROW

7/5/94

12

Note: All Reference Mark 1/4" Rec-Bar Set



13

Job #94-B-0047

TRAVERSE of $\frac{1}{2}$ AND $\frac{1}{4}$ I-WALLT@ 119+62.82 $\frac{1}{4}$ I-WALL 7

B.S. D R

LCW#12 119+78.50 00-00-05 180-00-10

194-18-28 194-18-39

F.S.
 $\frac{1}{4}$ I-WALL
N5+00

194-18-33 14-18-49

mean \bar{x} 194-18-33.5

Dist. = 462.74

T@ $\frac{1}{4}$ I-WALL N5+00

B.S. D R 8

 $\frac{1}{4}$ I-WALL 119+62.82 00-00-05 180-00-10

180-11-21 180-11-22

F.S.
LCW#11
102+23.11

180-11-26 00-11-32

mean \bar{x} 180-11-21.5

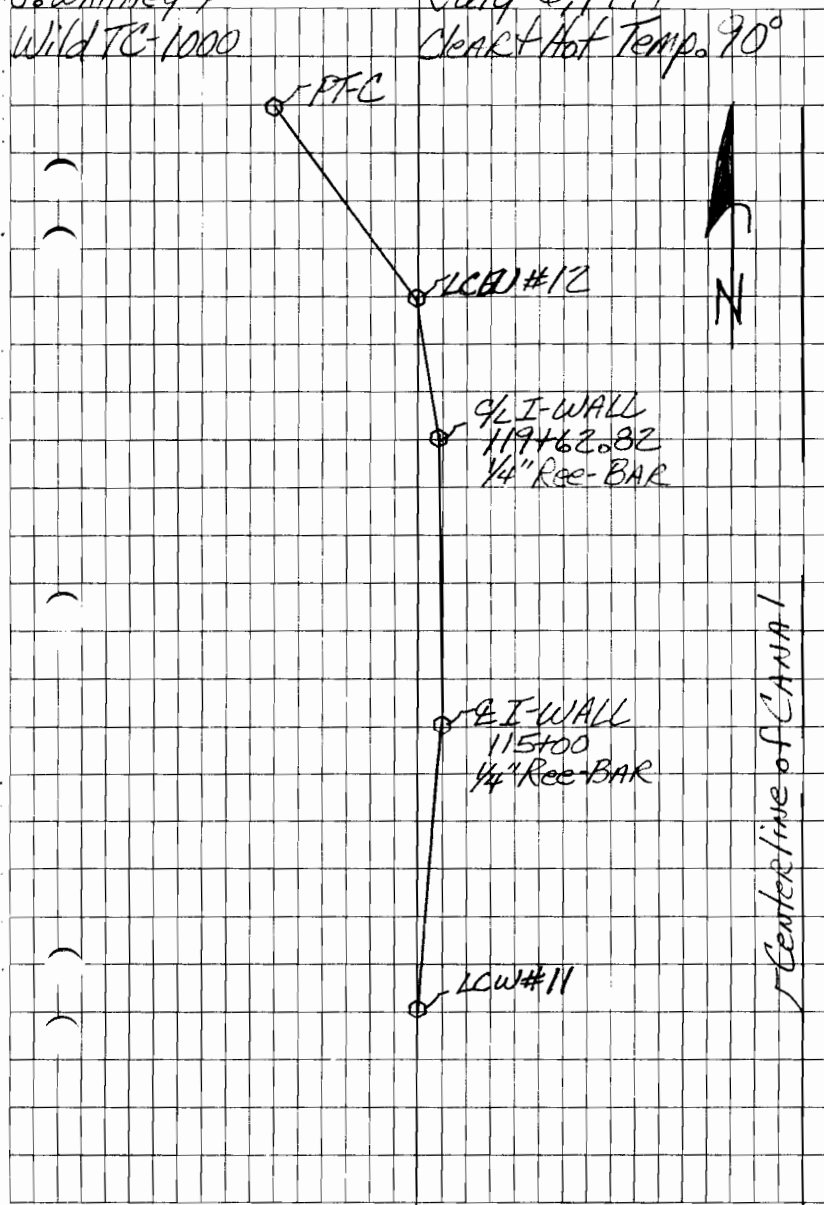
Dist. = 1276.93

Next Page

J. Greemillion P.C.
B. Lemoine T
G. Whitney P
Wild TC-1000

July 6, 1994
Clear Hot Temp. 90°

13



14

Job # 94-B-0047

TRaverse of B/L AND 9L I-WALL

T@LCW#11 = 102+23.11

9

B.S.
9L I-WALL
115+00

D

00-00-05

R

180-00-10

204-10-24

204-10-37

F.S.

PT-D

204-10-29

204-10-47

MEAN \pm 204-10-30.5

Dist. = 77.43'

T@ PT-D

10

B.S.
LCW#11
102+23.11

D

00-00-05

R

180-00-10

116-11-28

116-11-35

F.S.
LCW#10
101+12.99

116-11-33

296-11-45

MEAN \pm 116-11-31.5

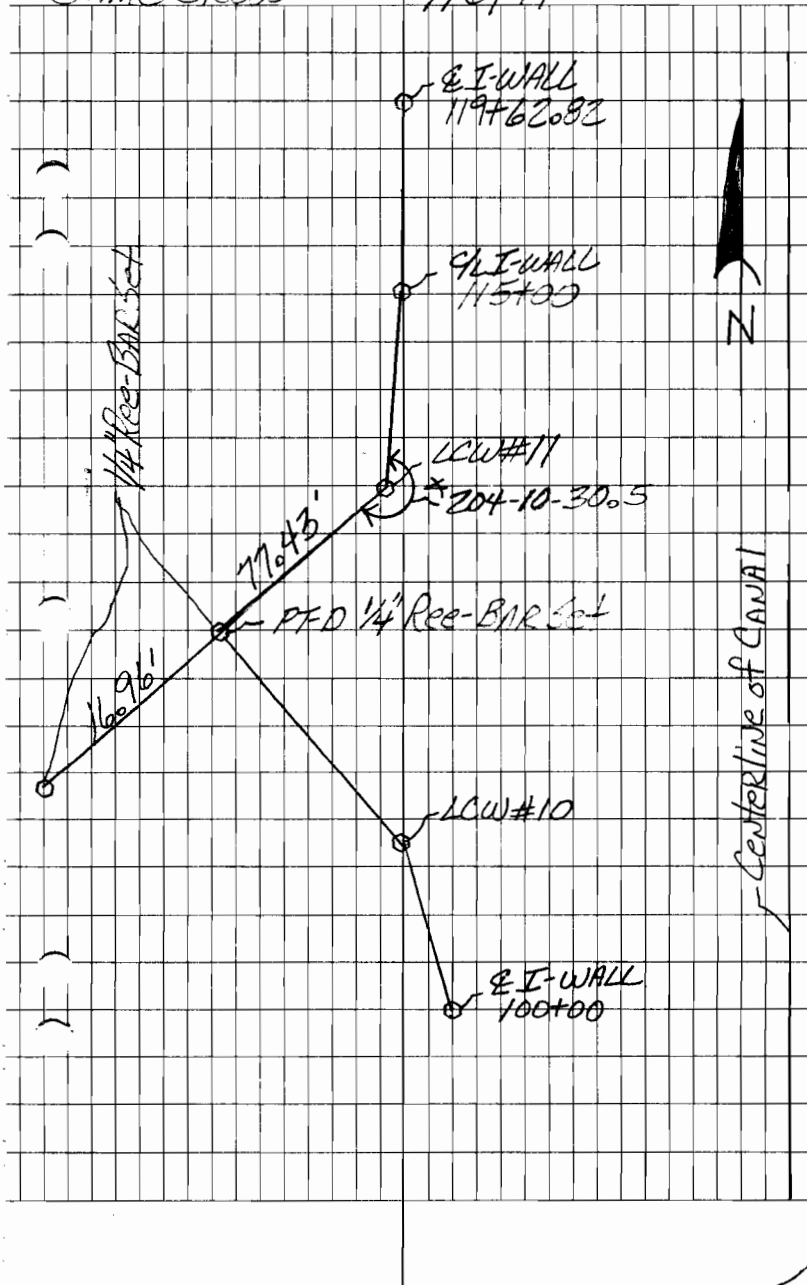
Dist. = 51.23'

Next Page

SAME CROW

7/6/94

14



15

Job# 94-B-0047

TRAVERSE of B/L AND 1/2 I-WALL

T@ LCW# 10 = 101+12.99

11

B.S.

D

R

PT-D

00-00-05

180-00-10

217-12-09

217-12-06

F.S.
1/2 I-WALL
100+00

217-12-14

37-12-16

MEAN ± 217-12-07.5

Dist. = 113.03'

12

T@ 1/2 I-WALL 100+00

B.S.
LCW# 10
101+12.99

D

R

00-00-05

180-00-10

181-38-28

181-38-24

F.S.
1/2 I-WALL
94+83.67

181-38-33

01-38-34

MEAN ± 181-38-26

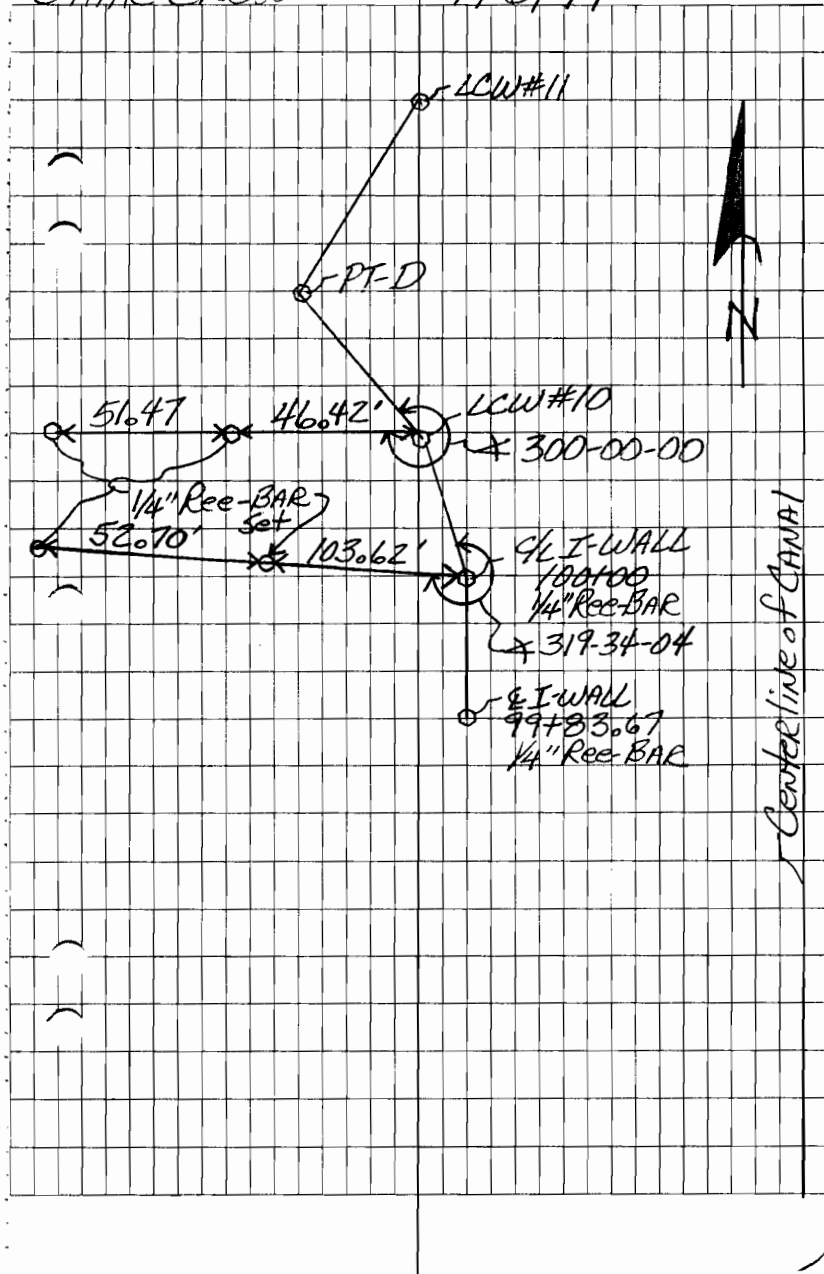
Dist. = 16.31

Next Page

Same Crew

7/6/94

15



Job# 94-B-0047

TRAVERSE OF 9/8 AND 9/8 I-WALL

* Side Shot to 9/8 I-WALL

T@ 9/8 I-WALL 99+83.67

B.S.	D	R
9/8 I-WALL 100+00	00-00-05	180-00-10
	165-42-10	
	165-41-47	165-42-24

F.S.		
9/8 I-WALL 99+73.67	165-42-15	345-42-34
	165-41-52	345-42-11

①

MEAN = 165-42-17
Dist. = 10.34'

T@ 9/8 I-WALL 99+83.67

13

B.S.	D	R
9/8 I-WALL 100+00	00-00-05	180-00-10
	180-29-46	180-29-42

F.S.		
9/8 P.O.T 85+90	180-29-51	00-29-52

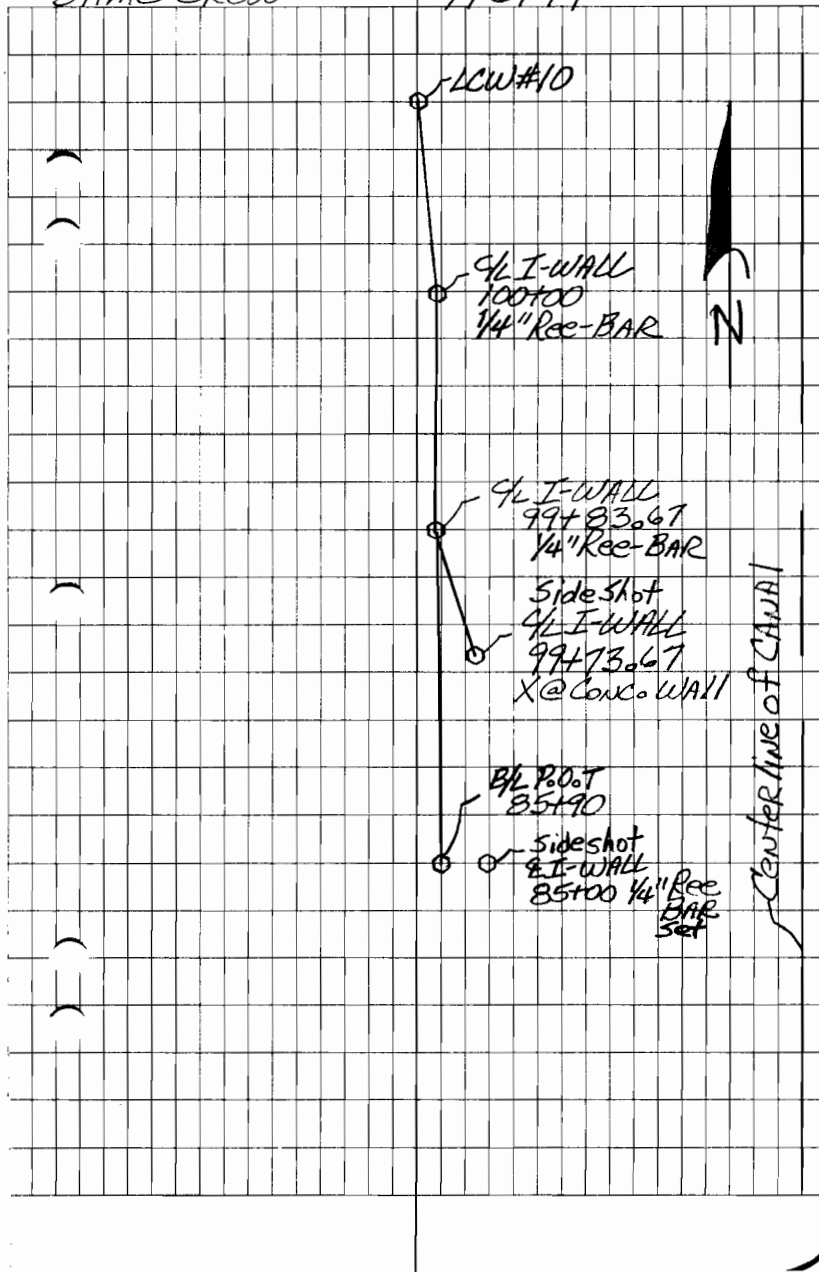
MEAN = 180-29-44
Dist. = 1393.66

Next Page

SAME CROW

7/6/94

16



17

Job # 94-B-0041

TRAVEL of B/L AND G/L T-WALL

Side Shot to G/L T-WALL

T@ B/L POT. 85+90

B.S.
G/L T-WALL
99+83.67

D
00-00-05

R
180-00-10

89-45-53

89-45-43

F.S.
G/L T-WALL
85+90

89-45-58

269-45-53

(A)

MEAN 89-45-48

Dist. = 7.81'

T@ B/L POT 85+90

B.S.
G/L T-WALL
99+83.67

D
00-00-05

R
180-00-10

179-50-18

179-50-11

F.S.
LCW #9
84+94.52

179-50-23

359-50-21

MEAN 179-50-14.5

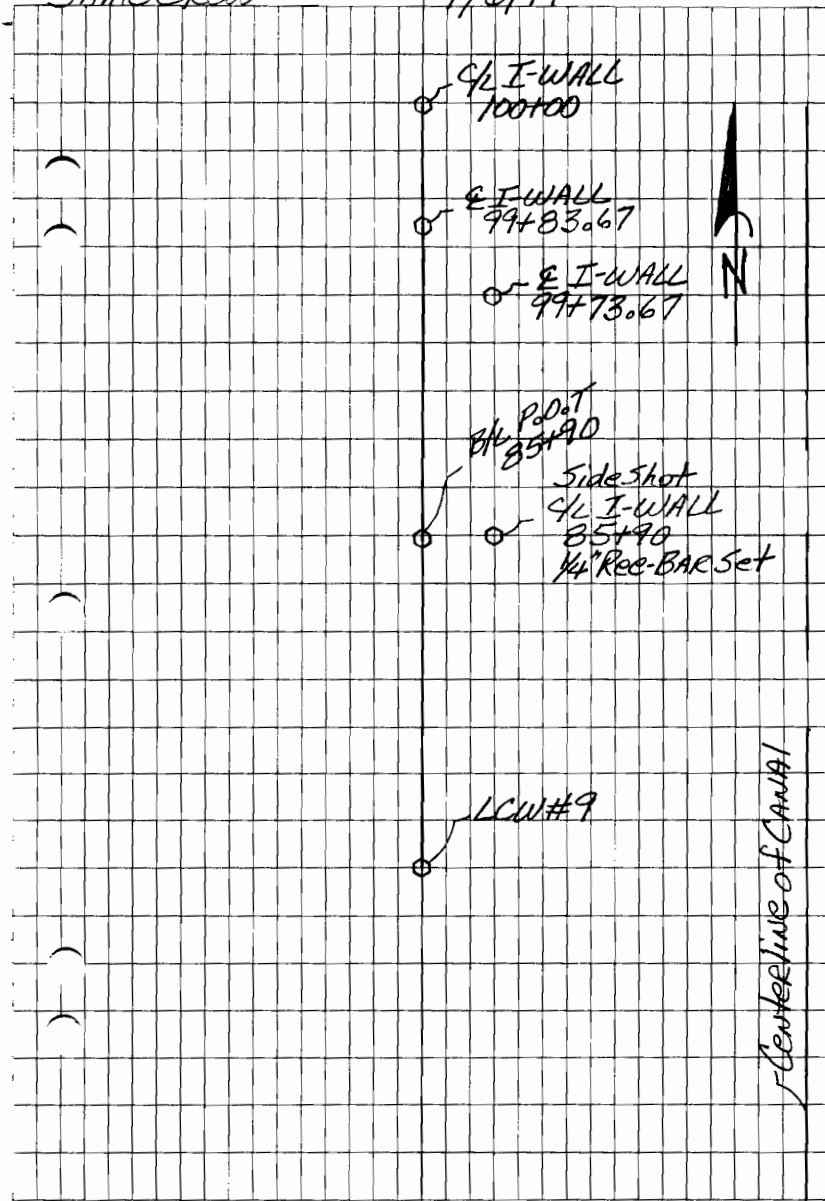
Dist. 95.48'

Next Page

SAME CREW

7/6/94

17



Job # 94-B-0047

TRAVERSE OF 1/4 AND 3/4 I-WALL

* Sideshot to 3/4 I-WALL

T @ LCW # 9 = 84+94.52

B.S.
B/L POT
85+90

D

00-00-05

R

180-00-10

168-33-49

168-33-50

F.S.
3/4 I-WALL
84+54.72

168-33-54

348-34-00

(10)

MEAN \neq 168-33-49.5

Dist. = 40.63

* Sideshot to 3/4 I-WALL

T @ LCW # 9 = 84+94.52

B.S.
B/L POT
85+90

D

00-00-05

R

180-00-10

169-41-46

169-41-47

F.S.
3/4 I-WALL
84+50

169-41-51

349-41-57

(11)

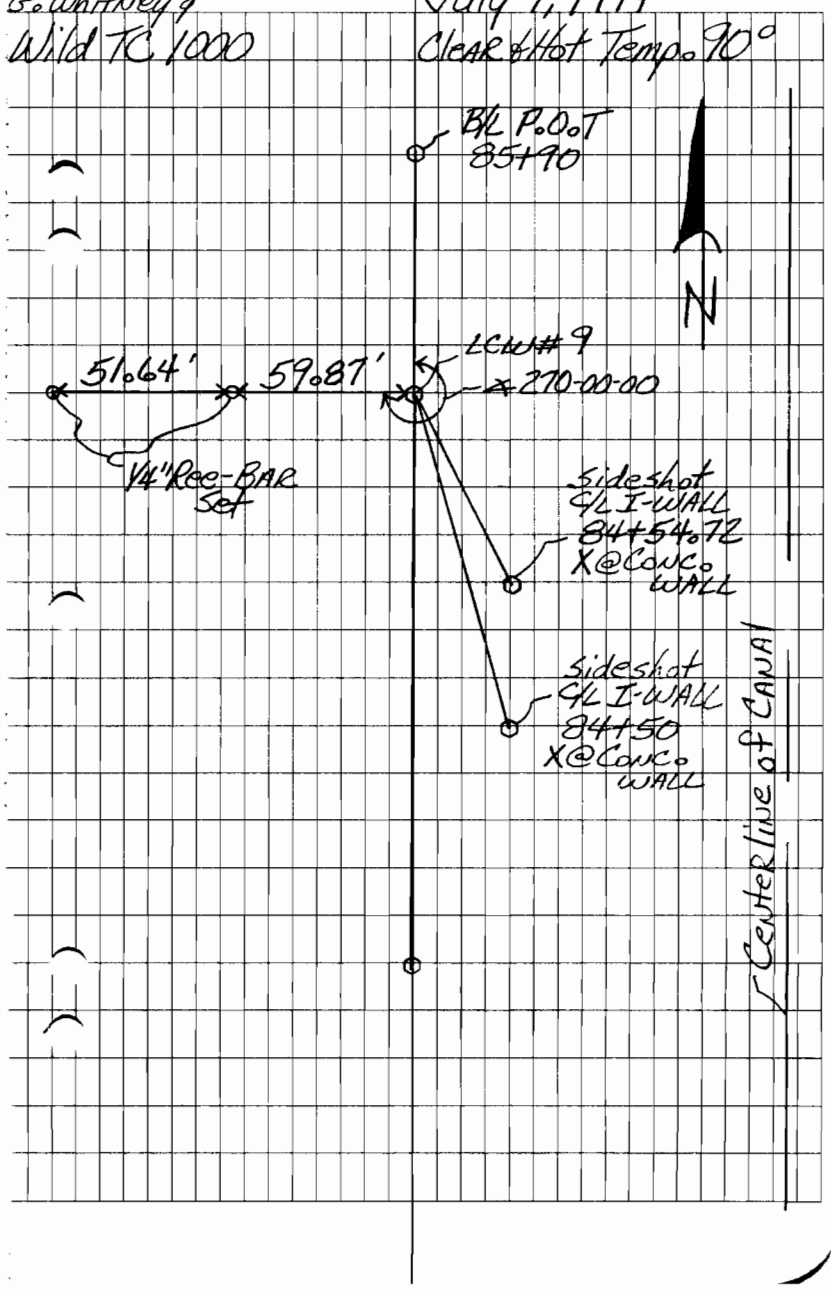
MEAN \neq 169-41-46.5

Dist. = 45.24'

Next Page

J. Gremillion P.C.
E. Lemoine
G. Whitney
Wild TC 1000

July 7, 1994
Clear & Hot Temp 90°



19

Job# 94-B-0047

TRaverse of 1/4 AND 1/4 I-WALL

T@ LCW#9 = 84+94.52 15

B.O.S.	D	R	
B/L POT 85+90	00-00-05	180-00-10	☺

	179-51-55	179-51-52	
F.O.S. B/L POT 74+92	179-52-00	359-52-02	

MEAN \neq 179-51-53.5
Dist. = 1002.56'

* Sideshot to 1/4 I-WALL

B.O.S.	D	R	
T@ B/L POT 74+92			
LCW#9 84+94.52	00-00-05	180-00-10	

	90-01-23	90-01-22	
F.O.S. 1/4 I-WALL 74+92	90-01-28	270-01-32	☺

(12)

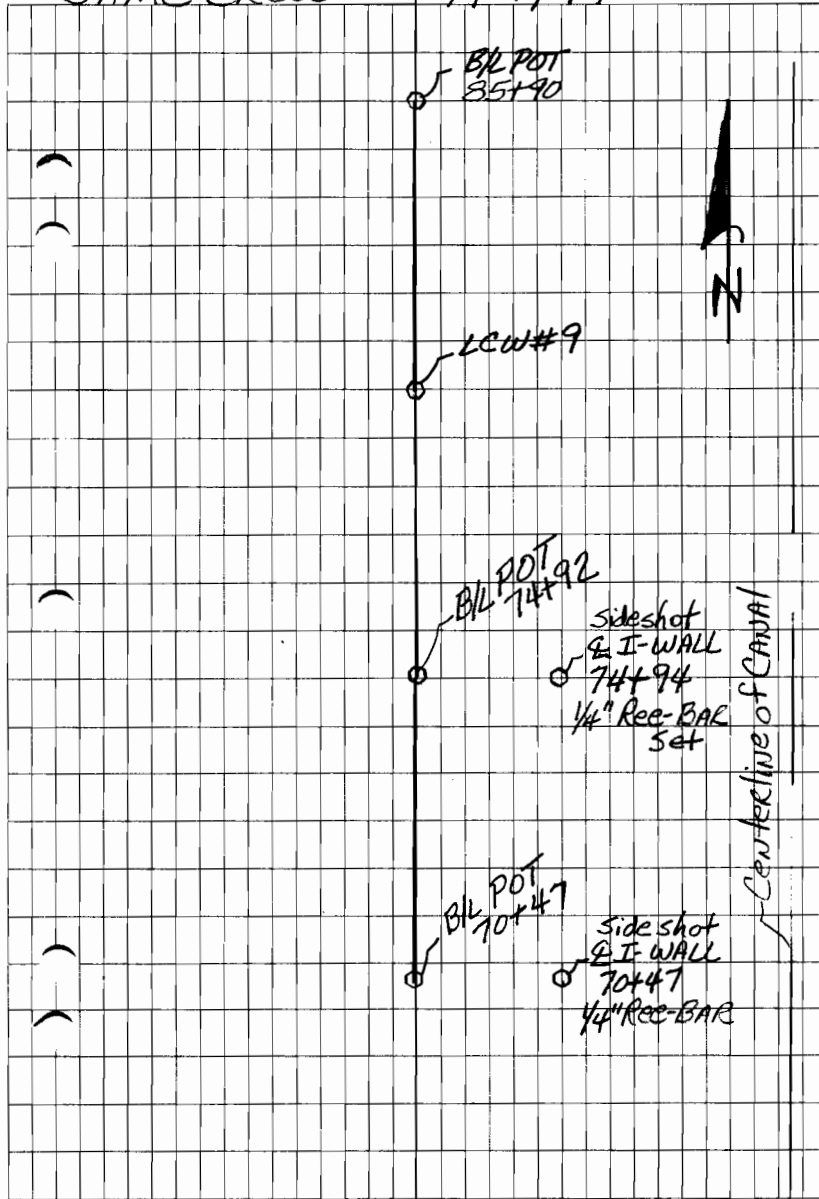
MEAN \neq 90-01-22.5
Dist. = 10.68'

Next Page

Same Crew

7/7/94

19



TRAVERSE of 3/4 AND 1/4 I-WALL

T@ 3/4 P.O.T. 74+92 16

B.S. D R
ICUM#9 84+94.52 00-00-05 180-00-10

179-59-55 179-59-54

F.S. 3/4 P.O.T. 70+47 180-00-00 00-00-04

MEAN ± 179-59-54.5

Dist. = 444.97'

* Side shot to 1/4 I-WALL

T@ 3/4 P.O.T. 70+47

B.S. D R
3/4 P.O.T. 74+92 00-00-05 180-00-10

89-54-08 89-53-59

F.S. 1/4 I-WALL 70+47 89-54-13 269-54-09

(13)

MEAN ± 89-54-03.5

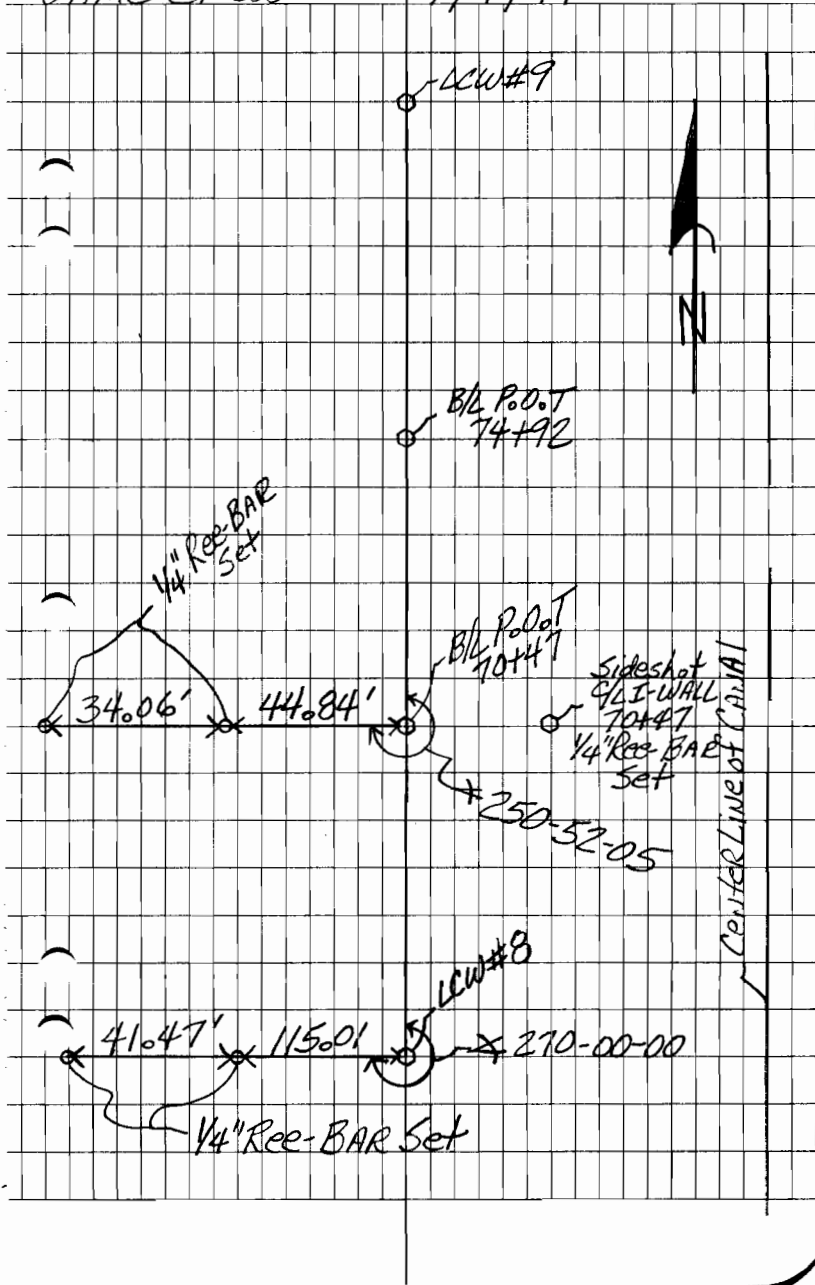
Dist. = 7.05'

Next Page

Same Crew

7/7/94

20



21

Job #94-B-0047

TRAVERSE of $\frac{1}{4}$ L AND $\frac{1}{4}$ L I-WALL

T@ $\frac{1}{4}$ L P.O.T 70+47

17

B.S.
 $\frac{1}{4}$ L P.O.T
74+92

D
00-00-05

R
180-00-10

☪
☪

179-57-23

179-57-21

F.S.
LCW#8
69+40.25

179-57-28

359-57-31

MEAN $\frac{1}{4}$ 179-57-22
Dist. = 106.62

Closing $\frac{1}{4}$

18

T@ LCW#8 = 69+40.25

B.S.
 $\frac{1}{4}$ L P.O.T
70+47

D
00-00-05

R
180-00-10

87-51-43

87-51-42

F.S.
LCF#10
69+15.97

87-51-48

267-51-52

☪
☪

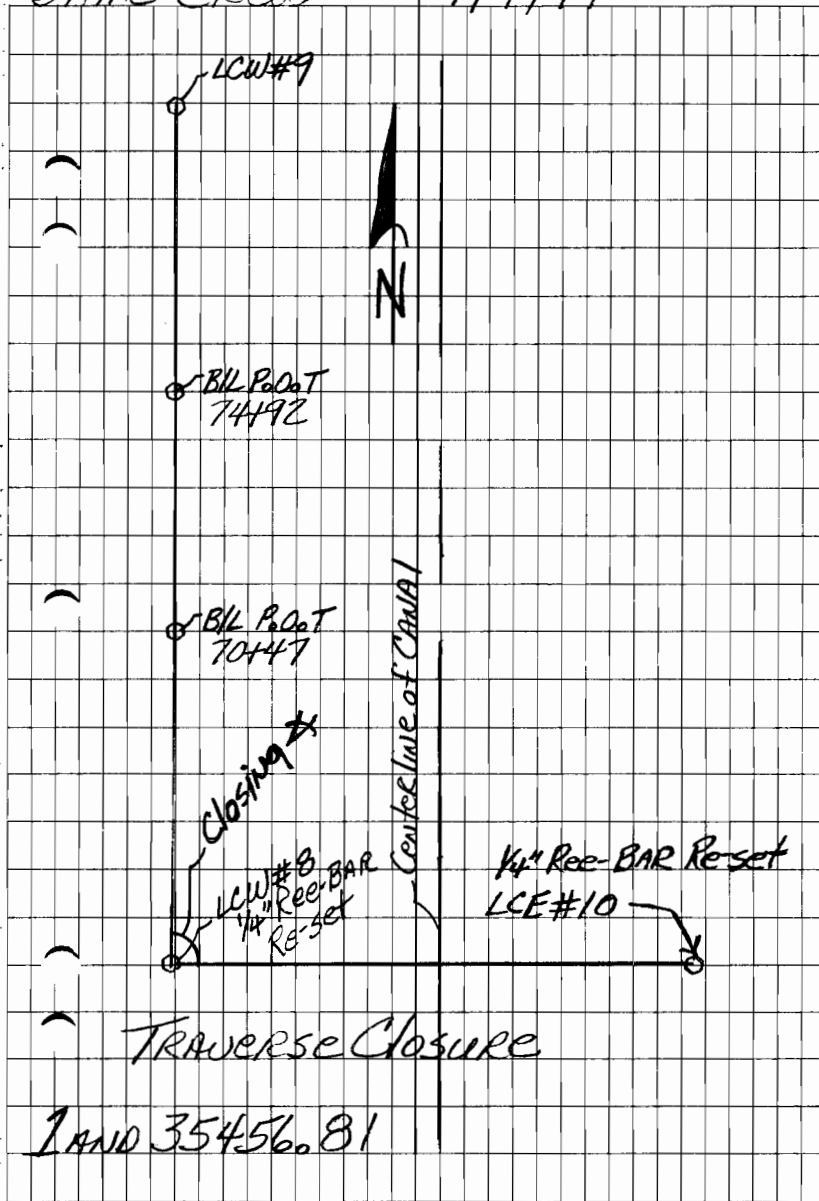
MEAN $\frac{1}{4}$ 87-51-42.5
Dist. = 141.67'

Next Page

Same Crew

7/7/94

21



Corridor

Coordinates of East Baseline

	Northern	Eastern
69+15.97	1,004,976.276	999,659.4568
84+02.42	1,003,493.494	999,763.9298
84+71.30	1,003,424.851	999,768.6757
99+96.67	1,001,902.697	999,866.8285
100+43.44	1,001,863.549	999,841.2374
102+48.69	1,001,663.901	999,888.9502
119+16.35	1,000,000.00	1,000,000
120+18.82	999,901.4639	999,971.9894
126+88.58	999,233.5748	1,000,021.881
127+65.81		

Coordinates of West Baseline

	Northern	Eastern
69+40.35	1,004,992.341	999,800.2130
84+94.52	1,003,442.629	999,917.5811
101+12.99	1,001,828.555	1,000,035.926
102+23.11	1,001,718.758	1,000,044.064
119+78.50	999,967.4892	1,000,163.991

Next Page

Coordinate of 9/1 WALL EAST

Northern

Eastern

70+26.77	1,004,865.918	999,669.7757	✓
84+20.31	1,003,475.962	999,769.2466	
84+31.10	1,003,465.219	999,770.0079	✓
85+54.63	1,003,341.946	999,776.3556	
99+69.22	1,001,874.782	999,859.3873	
102+67.72	1,001,682.345	999,877.7461	
114+82.71	1,002,894.411	999,795.3285	
119+03.06	999,985.9965	999,988.7948	
120+49.00	999,926.7860	999,954.6674	
126+65.00	1,000,490.140	999,705.4906	✓

Coordinates of 9/1 WALL West

119+62.82	999,982.8853	1,000,158.919	
70+47.00	1,004,886.575	999,815.3715	
74+92.00	1,004,443.133	999,852.5805	
84+50.00	1,003,398.829	999,928.9052	
84+54.72	1,003,483.186	999,915.1458	
85+90.00	1,003,347.986	999,932.3496	✓
99+73.67	1,001,947.403	1,000,025.835	✓
99+83.67	1,001,957.190	1,000,022.499	
100+00.00	1,001,940.931	1,000,023.786	
115+00.00	1,000,444.540	1,000,127.249	

Next Page

The image shows a page of graph paper with a grid of 20 columns and 20 rows. A vertical line runs down the center, and a horizontal line runs across the middle. On the left side of the grid, there are several small, dark, curved marks that look like the right half of a parenthesis or a similar symbol. These marks are located at approximately the 1st, 2nd, 10th, and 18th rows from the top. The rest of the grid is empty.



CELMN-CD-NO (1180-1-1q)

DATE: 16 November 1994
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave., Contract #03

Attached are original field notes on stations _____

Attached are final field notes on stations _____

Attached are original data for settlement plates for
stations _____

Attached are final data for settlement plates for
stations _____

Attached is additional information necessary for
calculation quantities on subject job.

The attached data is the last data necessary for
computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

Additional Comments: Attached are the Contractor's Original
Field Notes for TBM's #2-B, #2-C, #2-D and #2-E for this project.
Notes were taken from Contr's Book #01, pages #04 & #05.

Attch

J. Ash - Morte 12/2/94
CHESTER ASHLEY
Area Engineer
New Orleans Area Office

CF: Proj Engr
Ocf Tech (Btuno/Urban)

DACW29-94-C-0079

Lake Pontchartrain, LA. and vicinity
HIGH LEVEL PLAN

London Avenue Outfall Canal,
Parallel Protection

Mirabeau Ave. To Robert E. Lee Blvd.,
WEST BANK
Mirabeau Ave. To Leon C. Simon Blvd.,
East Bank

Orleans Parish, LA.

Book #1
Pages #4 and #5

T.B.M. Level Loop
Robert E. Lee to Pump Sta. #4

11-15-94

B+K Construction : Jerry Justice
Zachary [Signature], APR

4 DAEW29-94-C-0079
 T.B.M. Level Loop (Robert E. Lee to PS #4)

Sta.	+	HI	-	Elev.	BM
	3.278				5.041
		8.319			
T.P. #1			5.305	3.014	
	4.474	7.488			
set New T.B.M. #2-B			8.905	-1.417	#2-B ←
T.P. #2			4.838	2.650	
	4.977	7.627			
set New T.B.M. #2-C			10.252	-2.625	#2-C ←
T.P. #3			3.576	4.051	
	3.712	7.763			
T.P. #4			7.240	0.523	
	7.198	7.721			
set New T.B.M. #2-D			11.400	-3.679	#2-D ←
set New T.B.M. #2-E					
			8.356	-0.635	#2-E ←
Break set up					
T.B.M. #2-E	8.724			-0.635	
		8.089			
T.P. #4			7.550	0.539	
	7.627	8.166			
T.P. #3			4.103	4.063	
	4.213	8.276			
T.P. #2			5.610	2.658	
2					

11-15-94

JD - J. Justice
S - S. Thome

Clear + mild 4

T.B.M. #2 at Robert E. Lee (See Page #2
+ this Book)

← Set New T.B.M. #2-B at ± Station 116+00
East B. (Elev. -1.417) Top of
3/4" Iron Pipe ± 6" East of Safety Fence.

← Set New T.B.M. #2-C at ± Station 111+30
East B. (Elev. -2.625) Top of 3/4"
Iron Pipe ± 6" East of Safety Fence.

← Set New T.B.M. #2-D at ± Station 106+20
East B. (Elev. -3.479) Top of 3/4"
Iron Pipe ± 6" East of Safety Fence

← Set New T.B.M. #2-E at ± Station
102+95 East B. (Elev. -0.635)
Top of Abandoned Corner Fence Post
± 8" East of Safety Fence (at
Pump Sta. #4 Fence Line)

11-15-94 Same Party

5

← From Page #4

Tie-in to T.B.M. #2 to Close Loop.
Given $e_{ku} = 5.041$

OFFICE ENGR SECTION	
NOAO	
Checked by:	<i>LB</i>
Date:	<i>11-29-94</i>

CELMN-CD-NO (1180-1-1q)

DATE: 23 January 1995

zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section ~~_____~~

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave. Canal Floodwall, Contract #03

XXX

Attached are original field notes on stations West B/L Sta's 69+40.25 to 119+78.50, and East B/L Sta's 69+15.97 to 127+65.81. Contractor's Original Field Notes for the Traversing and Referencing of the Baseline P.I.'s

Attached are final field notes on stations _____

Attached are original data for settlement plates for stations _____

Attached are final data for settlement plates for stations _____

Attached is additional information necessary for calculation quantities on subject job.

The attached data is the last data necessary for computing theoretical quantities. No more data is needed for theoreticals.

The attached data is the last data necessary for computing final quantities. No more data is needed for finals.

XXX

Additional Comments: The above mentioned field notes were taken from Contractor's Book #02, Pages #01 thru #11.

Attch



CHESTER ASHLEY
Area Engineer
New Orleans Area Office

JAN 27 1995

DACW29-94-C-0079

Lake Pontchartrain and Vicinity

Hurricane Protection

High Level Plan

Orleans Parish, LA.

London Ave. Outfall Canal

Parallel Protection

Mirabeau Ave. to Robert E. Lee Blvd.

WEST BANK

Mirabeau Ave. to Leon C. Simon Blvd.

EAST BANK

Book # 2

Pages # 1 through # 11

East & West β Traverses
and References

1-20-95

OFFICE ENGR SECTION	
NGAO	
Checked by:	<u>oJH</u>
Date:	<u>1-26-95</u>

Jerry Justice

B+K Construction

π at West B Monument 102+23.11
 B.S. West B Monument 119+78.50
 ~~$\angle = 179^{\circ} 40' 30''$ (To the Right)~~
 Horiz. Distance = 1755.44'
 F.S. West B Monument 101+12.99
 $\angle = 179^{\circ} 40' 30''$ (To the Right)
 Actual \rightarrow Horiz. distance = 110.14'

* Note: Assumed Plan Azimuth between
 Sta. 119+78.50 and 102+23.11
 of $356^{\circ} 04' 28''$.

π at West B Monument 101+12.99
 B.S. Monument at West B 102+23.11
 F.S. Monument at West B 84+94.52
 $\angle = 180^{\circ} 03' 10''$ (Right)
 Actual \rightarrow Horiz. Distance = 1618.50

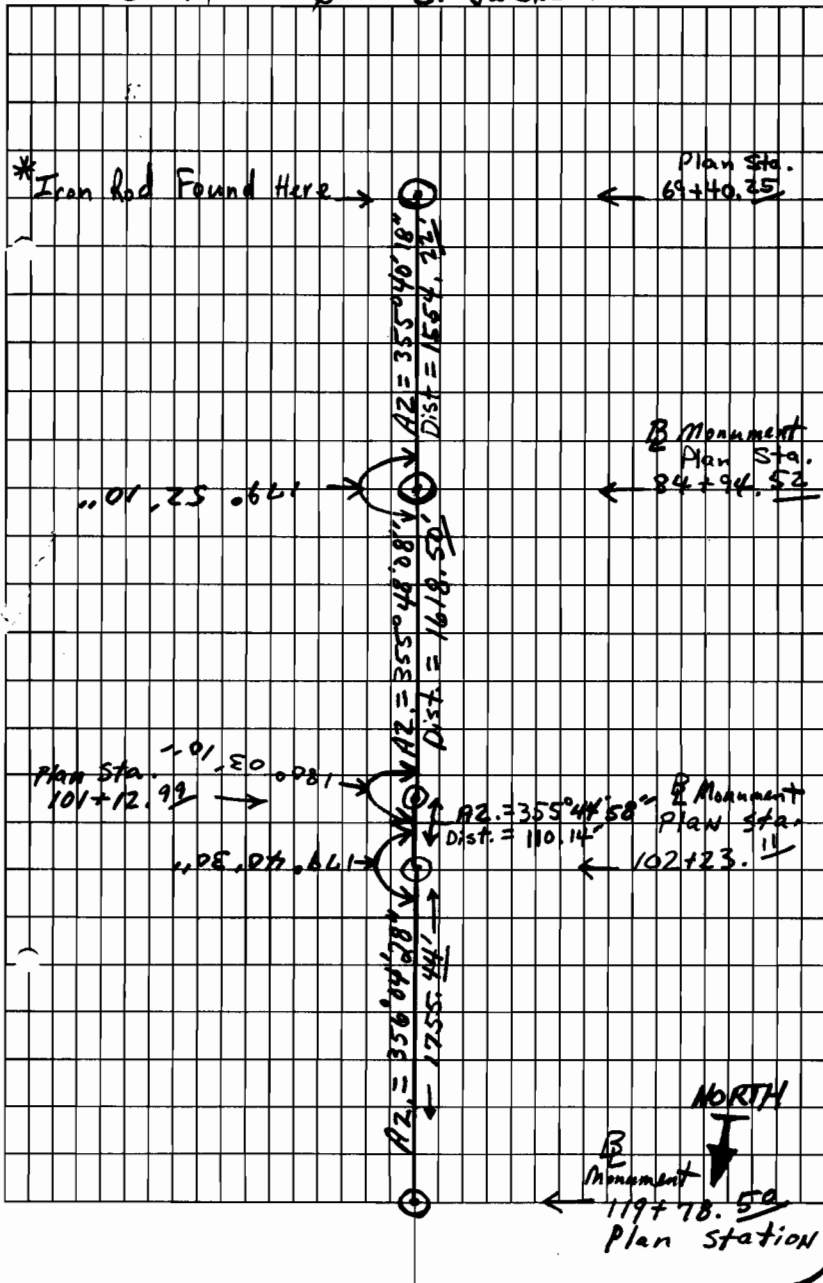
π at West B Monument 84+94.52
 B.S. West B Monument 101+12.99
 F.S. Iron Rod found at S. Side of Minibean
 $\angle = 179^{\circ} 52' 10''$ (Right)
 Actual \rightarrow Horiz. distance = 1554.22

* No monument found at Sta. 69+40.25
 on the west bank. Coast equipment may
 have destroyed it. (Bah Brothers Contract)

11-28-94

J. Justice
M. Comeaux
G. Jackson

Pt. Cloudy
+
warm



12

Office - 14-E-0074
London Ave. outfall canal

WEST B Monument References

T at West B Monument 119+78.50

B.S. West B Monument 102+23.11

Turn \times 90° Right

Set Hub + Tack Points on this line

at 84.95' o/s B and

162.00' o/s B (To the west)

Set P.K. Nail in asphalt street

on same line at 181.50' o/s B

T at West B Monument 102+23.11

B.S. West B Monument 119+78.50

Turn \times 270° Right (or 90° Left)

Set Hub + Tack Points on this line

at 32.00' o/s B and 17.00' o/s B

(To the west).

* Painted yellow target on 50"

Siphon Pipe for a foresight on

Azimuth of 356° 04' 28"

T at West B Monument 101+12.99

B.S. West B Monument 84+94.52

~~Set~~ Turned \times 90° Right

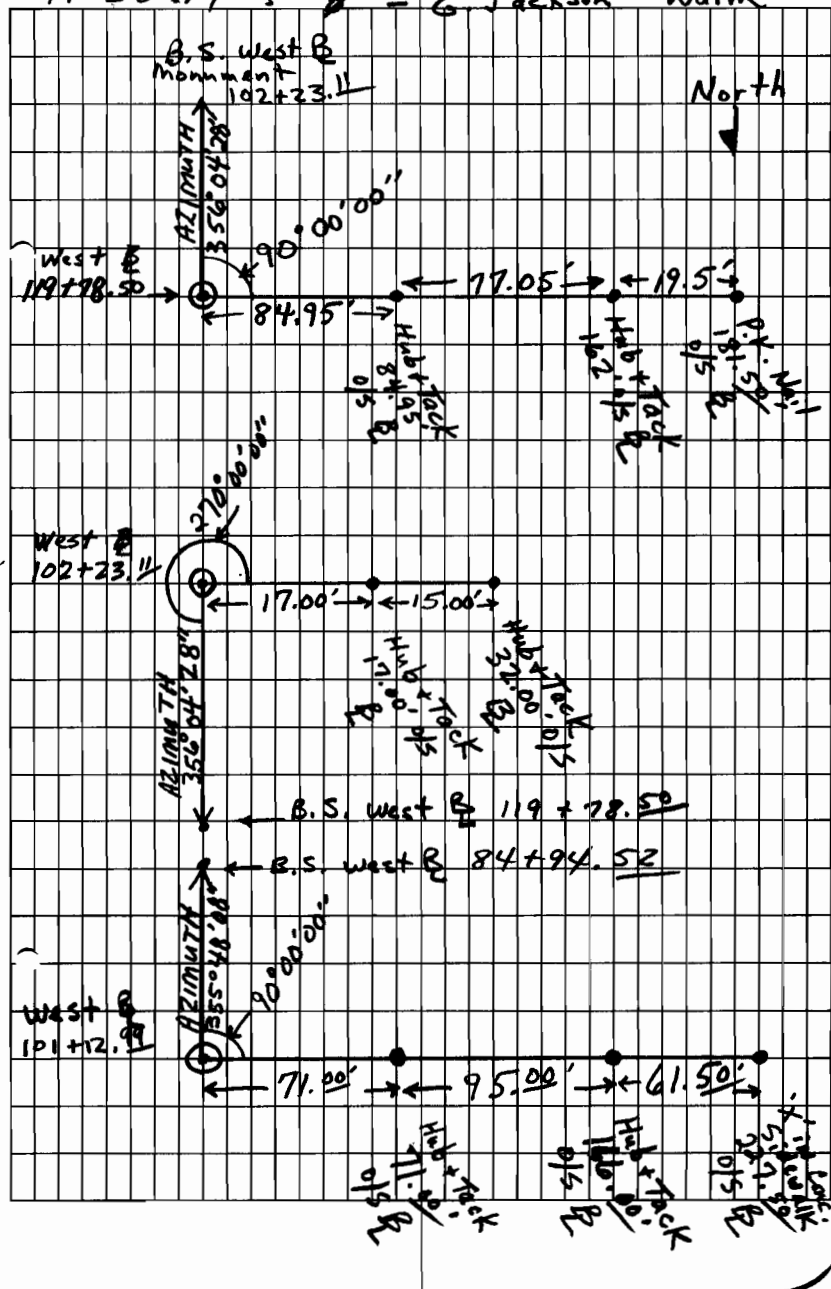
Set Hub + Tack Points at ~~170.00~~ 170.00' o/s B

and 166.00' o/s B To the west.

Scribed 'x' in conc. sidewalk (west side of
Pratt Drive) at 227.50' o/s B (west)

11-28-94

J. Justice Pt. Cloudy
M. Comeaux +
G Jackson Warm



3

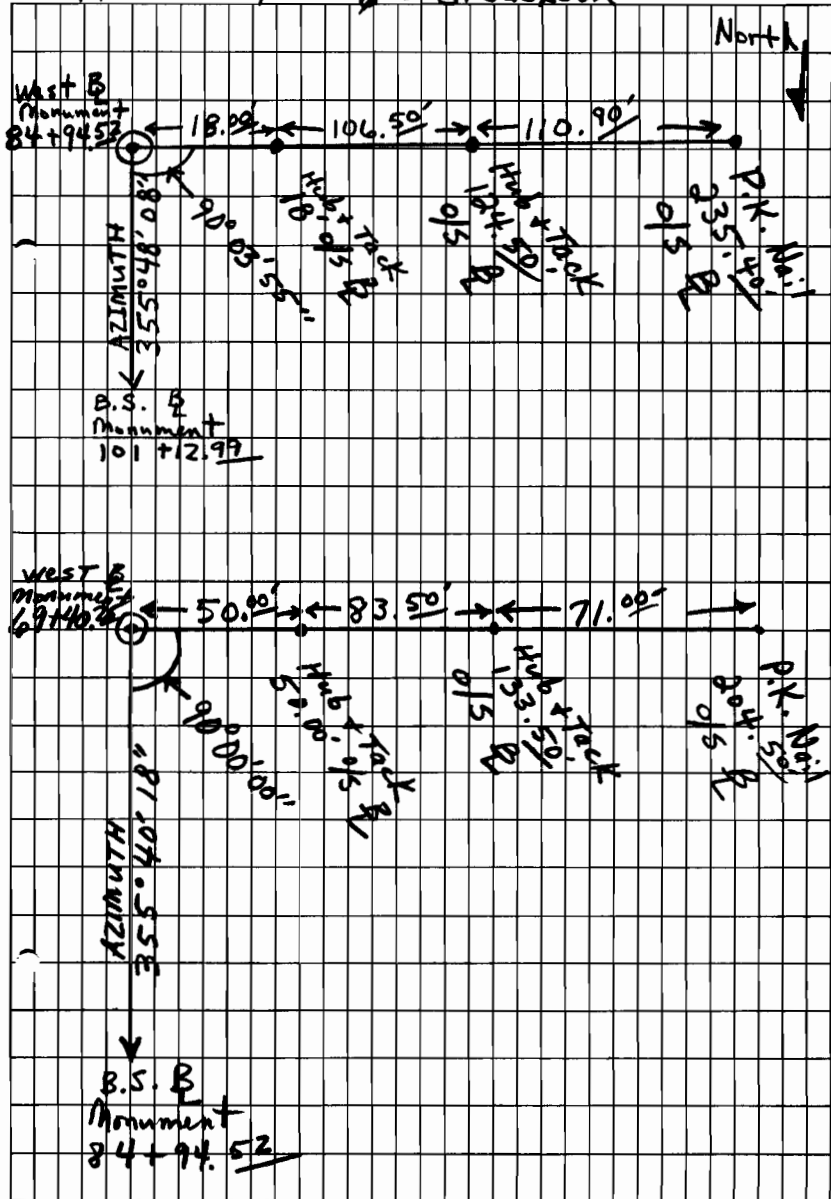
DAcW 29-94-C-0079
London Avenue Outfall Canal
West β Monument References

π at West β Monument 84+94.52
B.S. West β Monument 101+12.99
Turn Radial \times 90° 03' 55" Left
Set Hub & Tack Points at 18.00' o/s β
and 124.50' o/s β to the west
Set P.K. Nail in asphalt street
at 235.40' o/s β (All on same line)

π at West β Station 69+40.25
(Set up over Iron Rod found here.)
Set hub & tack point beneath Instrument
at Sta. 69+40.25 West β
* Removed Iron Rod, as it was
found to be bent badly at the top
B.S. West β Monument at 84+94.52
Marked yellow target on North face
of 12" C.I. Water Line at N. Side
of Mirabeau Ave. (Az. = 355° 40' 18")
Painted yellow 'X' on top of 12"
C.I. Water Line (same Azimuth) ^{Station} 70+23.60
Turned \times 270° Right (90° Left)
Set hub & tack points at 50.00' o/s
and 133.50' o/s West of β
Set P.K. Nail in street at 204.50'
o/s β (to the west)

11-30-94

J. Justice Clear + 3
S. Thome
G. Jackson Cool 3



π set at East B P.I. 69+15.97
Iron Rod found here - No Monument
F.S. B Monument at East B 84+02.42
Horiz. Distance = 1486.50'

References to East B P.I. 69+15.97

Marked a yellow 'x' on top of 12" C.I. Water Line on East B Sta. 69+93.42 (Azimuth = 356°04'38")

Turned \times 90° Right

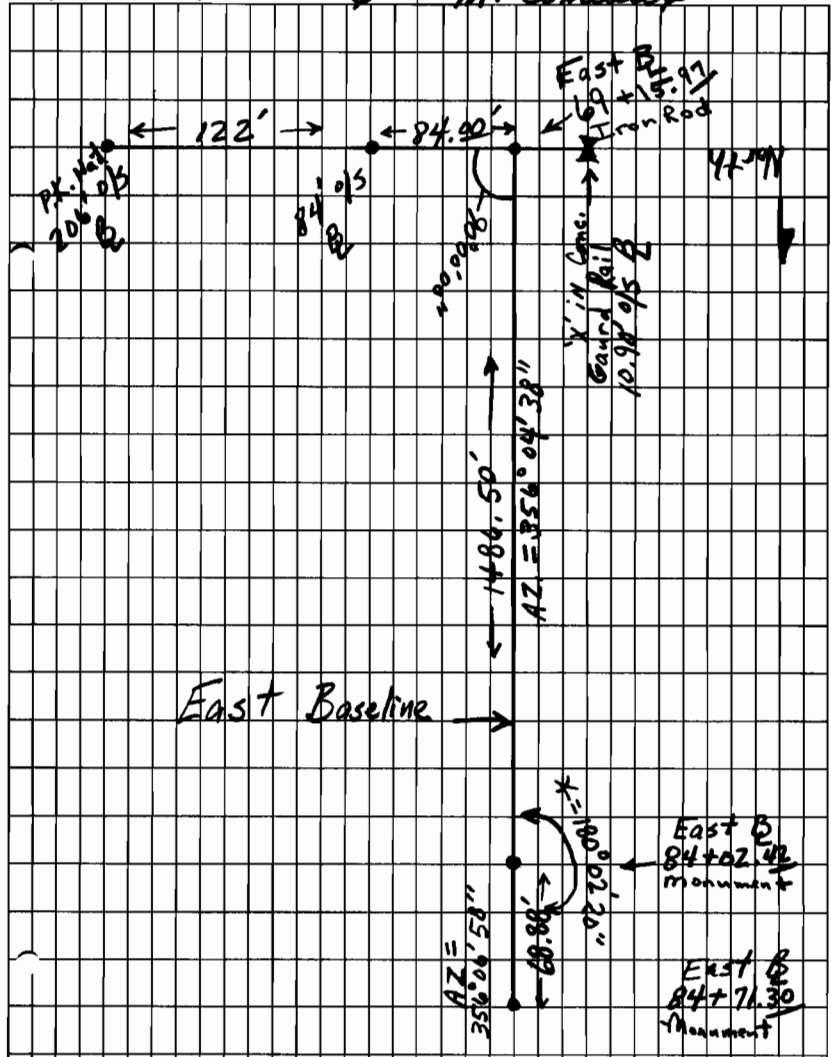
Set hub + tack Point at 84.00' o/s B and P.K. Nail at 206.00' o/s B (East)

Scribed an 'x' in Concrete Guard Rail on South side of Mirabeau Bridge at 10.90' o/s B West

π set at East B Monument 84+02.42
B.S. Iron Rod at East B 69+15.97
(Assumed Azimuth 356°04'38")
F.S. East B Monument station 84+71.30
 \times = 180°02'20" Right
Horiz. Distance = 68.88'

Clear + Cool
12-1-94

J. Justice
S. Thome
M. Comant



* see page # 5 for references
to B₂ points at 84+72.⁴² + 84+71.³⁰

5

DACW29-94-C-0079
London Ave. Outfall Canal
East $\frac{B}{E}$ Traverse + References

References to East $\frac{B}{E}$ Monument 84+02.42

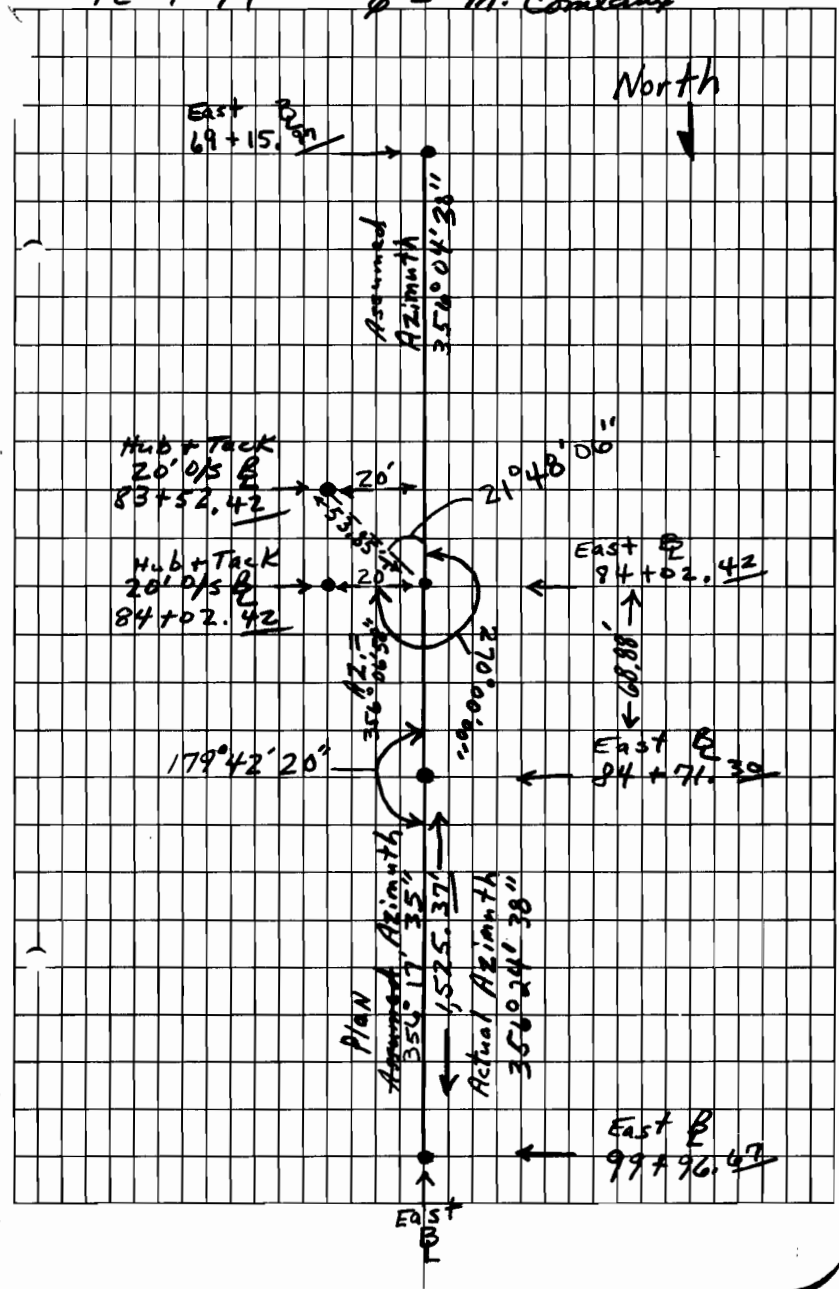
π set on East $\frac{B}{E}$ Mon. 84+02.42
B.S. Iron Rod on East $\frac{B}{E}$ 69+15.97
Marked yellow Target on 48" S.F.M.
Aerial Crossing (South Face) on East $\frac{B}{E}$
Azimuth = $356^{\circ}04'30''$ \rightarrow offset to
Monument at 84+02.42 = 48.78' (North)
Target station = 84+51.20 East $\frac{B}{E}$ Extended

π at same station
Turn 270° Right (90° Left)
Set hub & tack points as follows:
20' o/s $\frac{B}{E}$ (East) sta. 84+02.42
and 20' o/s $\frac{B}{E}$ (East) sta. 83+52.42

π set on East $\frac{B}{E}$ Mon. 84+71.30
B.S. East $\frac{B}{E}$ Mon. 99+96.67
Horiz. Distance = 1525.37'
F.S. East $\frac{B}{E}$ Monument 84+02.42
 $\angle = 179^{\circ}42'20''$ (Right)
Horizontal Distance = 68.88'

Clear + Cool
12-1-94.

J. Justice
S. Thome
M. Combs



16

DHCW47-74-C-0079
London Ave. Canal outfallEast \underline{B} Traverse and References π set on East \underline{B} Mon. Sta. $84+71.30$ B.S. East \underline{B} Mon. @ $99+96.67$ Horiz. Distance = $1525.37'$

Found 'X' in lone sidewalk at

N. Side of Filmore Distance = $83.33'$ 'X' Station = $85+54.63$ Alignment found to be $\pm 0.06'$ off (West)

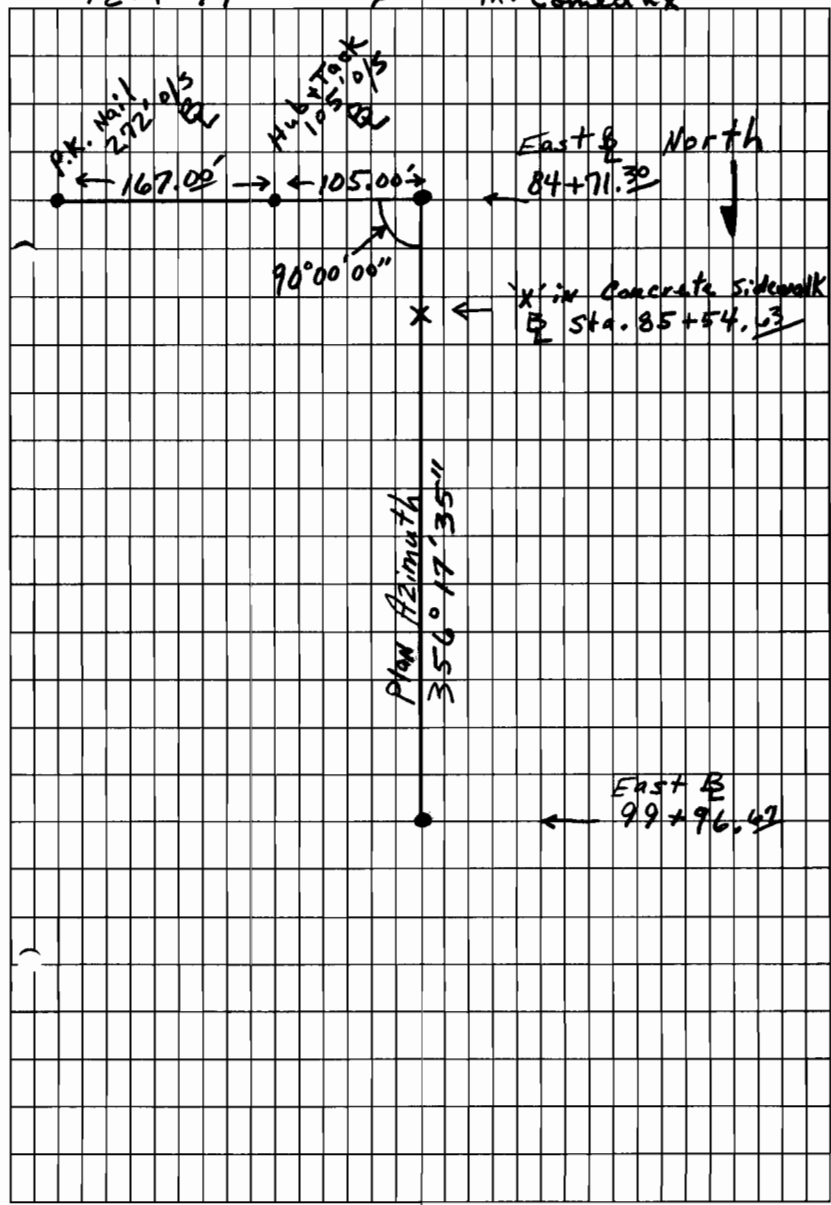
New 'X' painted on correct line (same station)

Marked yellow target on N. Face
of 48" S.F.M. Crossing (S. Side Filmore)Plan Azimuth = $356^{\circ} 17' 35''$ o/s from \underline{B} Monument $84+71.30$ toE of Target = $15.42'$ Target station = $84+55.88$ π still at $84+71.30$ Turned 90° \times RightSet hub + tack point at $105.00'$ o/s \underline{B} and P.K. Nail in street at $272.00'$ o/s \underline{B} (to the East)

Clear + Cool
12-1-94

J. Justice
S. Thome
M. Comeaux

6



7

DACW29-94-c-0079
London Ave. Outfall Canal

East B Traverse and References

T at East B Monument 99+96.67

B.S. East B Monument 84+71.30

Horiz. distance check = 1525.37'

Marked yellow Target on Existing
Concrete Floodwall (Az. = 356°17'35")

Target station = 100+09.31

OR 12.64' o/s B Mon. at 99+96.67

F.S. East B Mon. at 100+43.44

X = 216°51'20" Right

Horiz. distance = 46.79'

Set hub & tack point at 22.00' o/s B
Monument at 99+96.67 (Hub & Tack Point
Station = 100+18.67) on Azimuth
of 33°10'06"

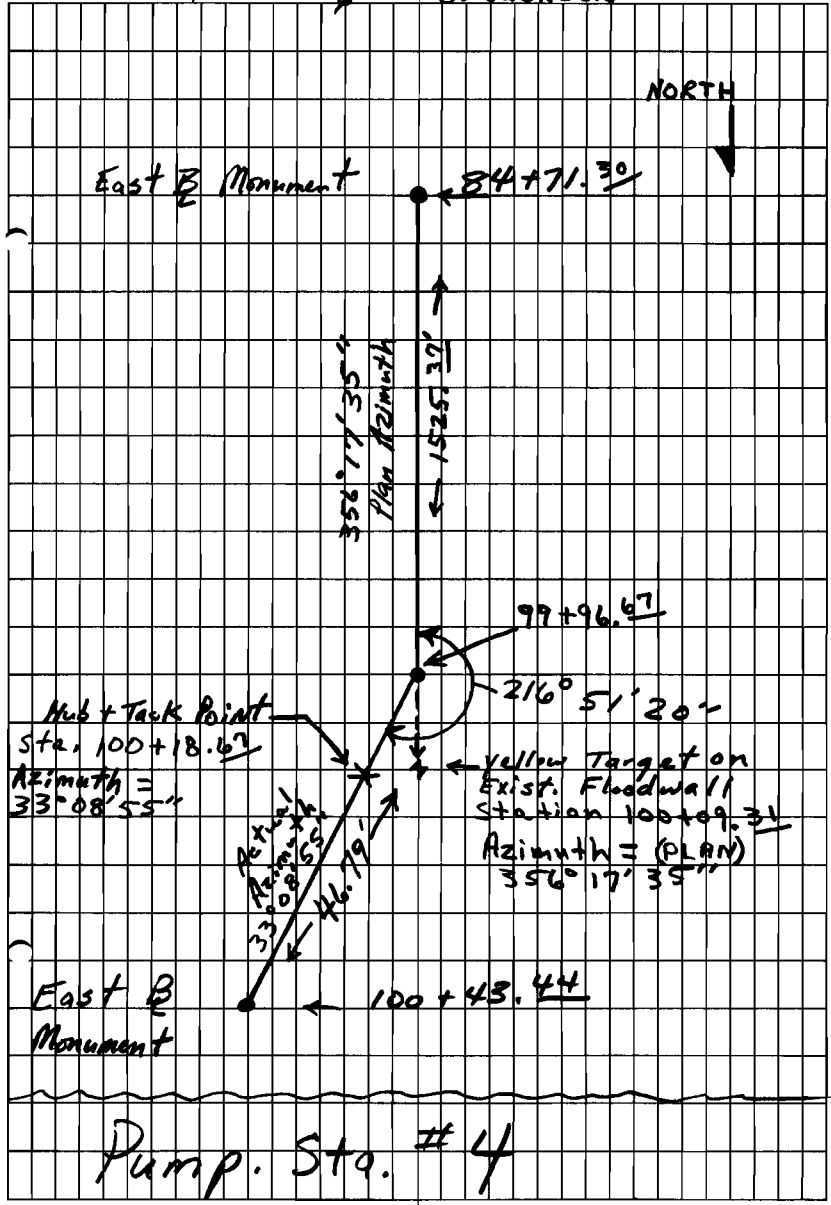
Marked 'X' on Telephone Conduit
on Same Azimuth (No station)

B Monument at Sta. 100+43.44

Not Referenced - It is
Well outside of the work area.

Clear + Cool
12-2-94

J. Justice
S. Thome
G. Jackson



8

Draw 29-94-C-0079
 London Ave. Outfall Canal
 East β Traverse and References

π at East β Monument 102+48.69

F.S. East β Monument 119+16.35

Horiz. Distance = 1067.70'

Flopped scope and marked yellow target on Electrical Panel on Plan

Azimuth $356^{\circ} 10' 52''$ (East β Extended)

Scribed 'X' in concrete Duct Bank on Same Azimuth at Sta. 102+36.44

OR 12.25' o/s β Monument (South)

π still at East β 102+48.69

Turn $\neq 90^{\circ}$ Right

Marked yellow 'X' on slope pavement

at 24.25' o/s East β (East)

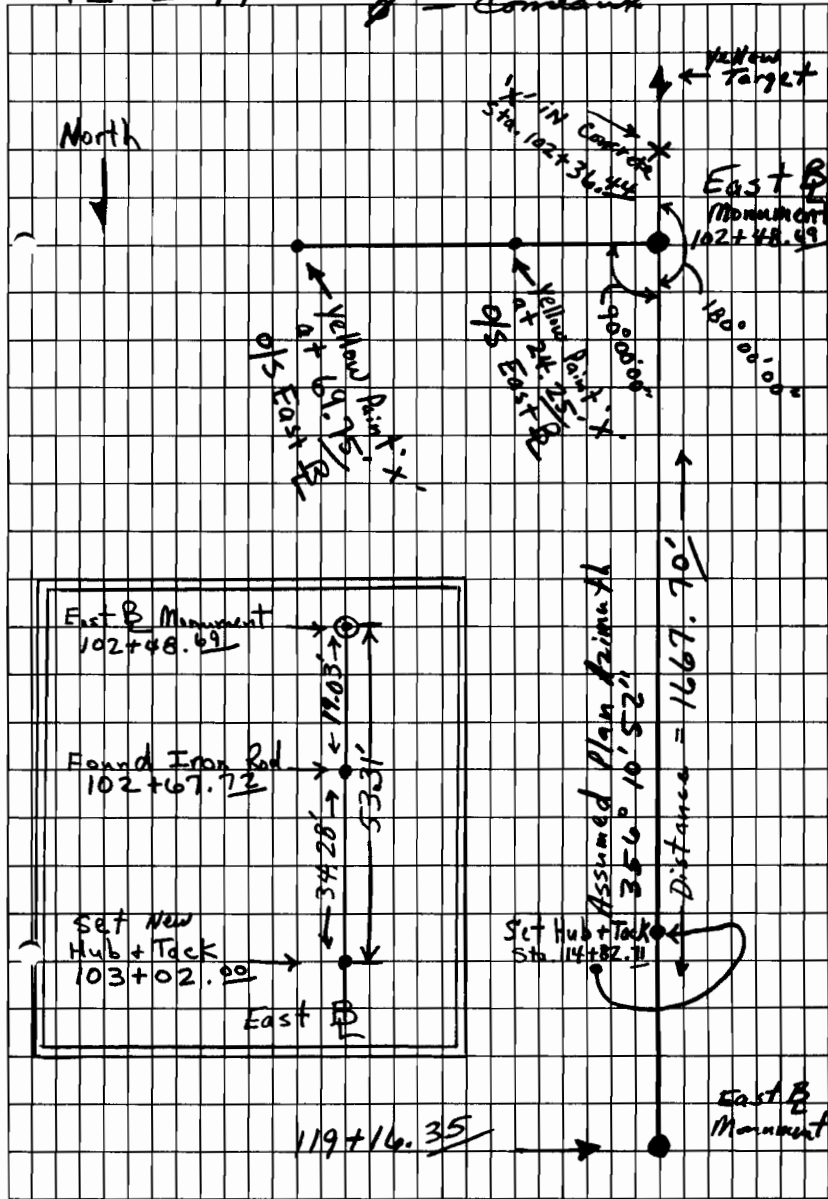
Marked yellow 'X' on concrete slab

at 69.75' o/s East β (East)

* Set Hub + Tack Points on East β Azimuth $356^{\circ} 10' 52''$ at Sta. 103+02 and 114+82.71 for future I-Wall Layout.

Clear + Cool
12-2-94

Justice
Thome
Comauk



π at East β Monument $119+16.35$
B.S. East β Monument $102+48.69$
Flopped scope and marked yellow
paint target on East β Extended
(Azimuth $356^{\circ}10'52''$) at Station
 $119+43.67$ ($27.32'$ o/s β Monument).
Checked B.S. at $102+48.69$;
Set Hub + Tack Point on East β
at sta. $118+56.50$,

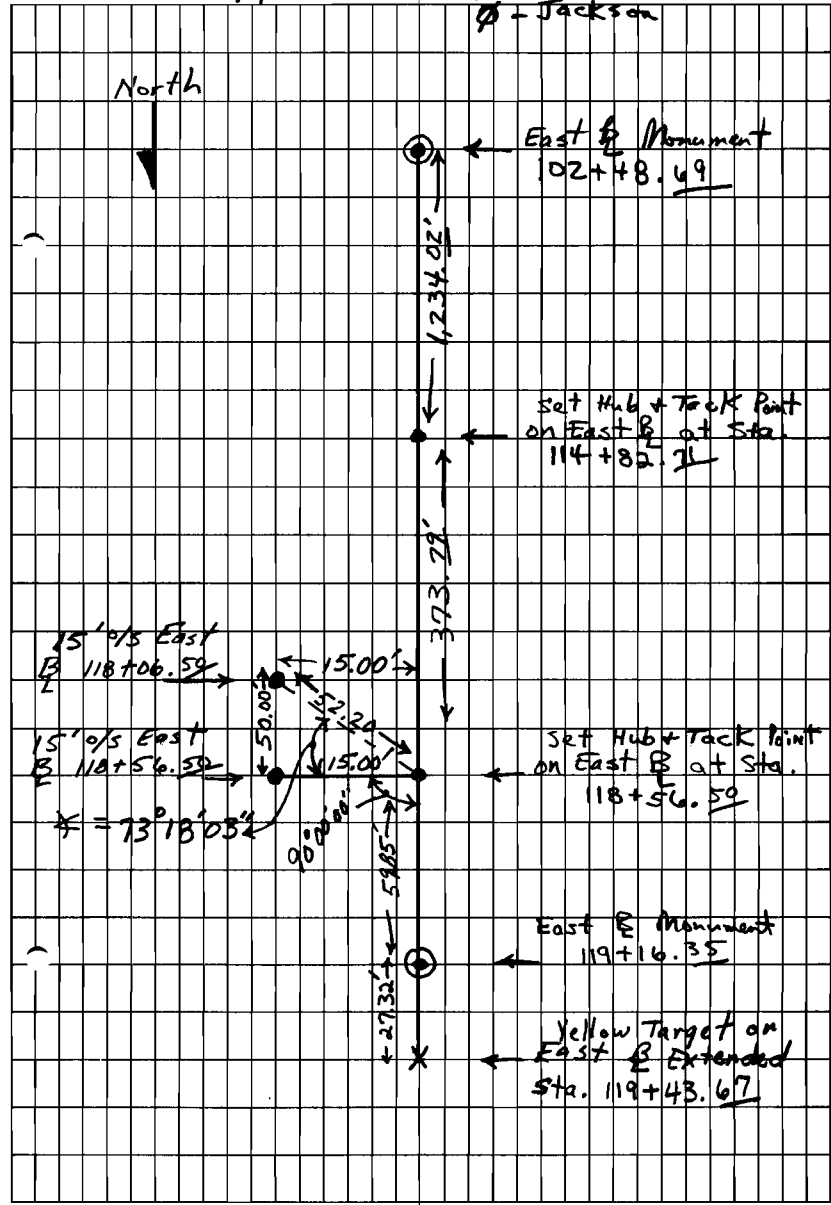
π at $118+56.50$ Hub + Tack.
B.S. East β Monument $119+16.35$
Turn $\times 90^{\circ}$ Right.
Set Hub + Tack Point at $15.00'$ o/s
East β sta. $118+56.50$
Turn $\times 163^{\circ}18'02''$ Right
Distance = $52.20'$
Set Hub + Tack at $118+06.50$,
 $15'$ o/s β (To the East)

* Note: No room to offset
 β Monument at $119+16.35$
towards the Land side.
The $15'$ o/s hubs will be
used to re-establish this point
if necessary.

Pt. Cloudy + Warm
12-6-94

KP - Justice
Ø - Thome
Ø - Jackson

9



π set on East B Monument $120+18.82$
 B.S. East B Monument $126+88.58$
 Horiz. Distance = $669.77'$
 F.S. East B Monument $119+16.35$
 Horiz. Distance = $102.46'$
 $\angle = 200^{\circ} 06' 40''$ (Right)

π Set on ^{East B} Monument $120+18.82$
 B.S. Monument at $126+88.58$
 Flip Scope and set P.K. Nail
 in Asphalt Street on East B Extended
 (Az. = $355^{\circ} 43' 38''$) at $8.00'$ o/s South
 of Monument (Sta. of PK Nail = $120+10.82$)
 Turn 90° Right and set Hub & Tack Points
 at $98.00'$ o/s and $170.00'$ o/s B,
 Then Set P.K. Nail in Asphalt Street at
 $305.00'$ o/s East B (all on same line)

* Also set hub & tack Point
 on East B Azimuth $355^{\circ} 43' 38''$
 at station $120+49.00$
 for future I-Wall Layout.

π set on East β Monument 126+88.58

B.S. East β Monument at 120+18.82

Flopped Scope and painted yellow

target on Exist. Floodwall on

North Side of Lean C. Simon Blvd

(Azimuth = $355^{\circ}43'38''$)

Turn \times 270° Right

Set hub + tack point at 19.15' o/s

β (East), and set P.K. Nail in Asphalt

Street at 245.00' o/s β (East)

Not shown on sketch \rightarrow Set 8 penny nail at 8.50' o/s β
 (to the West) in exist. wall exp. joint.

π still at 126+88.58 Monument

B.S. East β Monument at 120+18.82

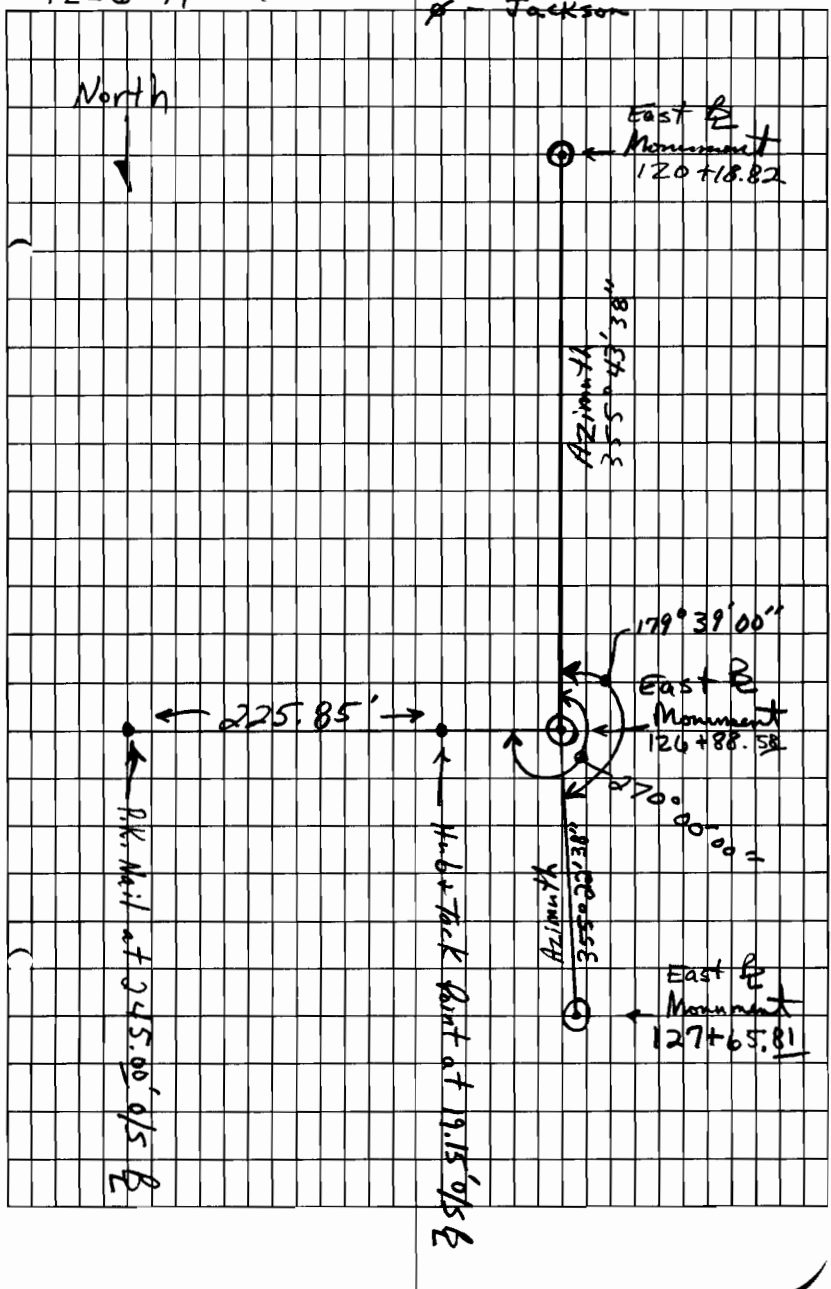
F.S. East β Monument at 127+65.81

Horiz. Distance = 77.23'

\times = $179^{\circ}39'00''$ Right

Pt. Cloudy + Warm
12-6-94

TJ - Justice
Ø - Thoma
- Jackson



CELMN-CD-NO (1180-1-1q)

DATE: 23 January 1995
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave. Canal Floodwall, Contract #03

Attached are original field notes on stations _____
East B/L Sta's 102+67.72 to 119+00.30. Contractor's Original
Field Notes for the New Wall-Line Layout.

Attached are final field notes on stations _____

Attached are original data for settlement plates for
stations _____

Attached are final data for settlement plates for
stations _____

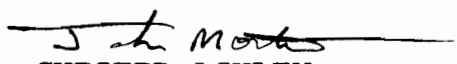
Attached is additional information necessary for
calculation quantities on subject job.

The attached data is the last data necessary for
computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

Additional Comments: The above mentioned field notes were
taken from Contractor's Book #02, Pages #12 and #13.

Attch


CHESTER ASHLEY

Area Engineer
New Orleans Area Office

JAN 27 1995

DACW29-94-C-0079

Lake Pontchartrain and Vicinity

Hurricane Protection

High Level Plan

Orleans Parish, LA.

London Ave. Outfall Canal

Parallel Protection

Mirabeau Ave. to Robert E. Lee Blvd.

WEST BANK

Mirabeau Ave. to Leon C. Simon Blvd.

East Bank

Book # 2

Pages # 12 and #13

E of I-Wall Layout

East Bank

Robert E. Lee to Pump. Sta. #4

1-20-95

Jerry Justice

B+K Construction Co.

OFFICE ENGINE SECTION	
NOAO	
Checked by:	<u>CSH</u>
Date:	<u>1-26-95</u>

12

DfCW29-94-C-0079

London Avenue Outfall Canal (East Bank)

I-Wall Layout and References

T set at East B Monument 119+16.35

B.S. Target on Exist. Floodwall at

119+43.67

Station =
119+39.35

Set 23.00' o/s hub + Tack

on this Azimuth (356° 10' 52")

Flopped scope and set hub+tack

at sta. 119+00.30 (16.05' south)

* This represents a 2.00' o/s south of

Exp. Joint between I-Wall Monolith #155

and the tie-in collar; taken

from approved Cast-Steel Sheet Pile

Layout Drawings.

T set on East B 119+00.30

B.S. Target at 119+43.67

Turn 90° Left and set hub+tack

on E of new I-Wall (11.67' West)

Marked exist. sheet pile at sta

119+00.30 (o/s to West face = 8.05')

T set on East B 114+82.71

B.S. Target on Exist. Floodwall (B.S. 119+43.67)

Turn 90° Right and set hub+tack on

E of new I-Wall (11.24' West)

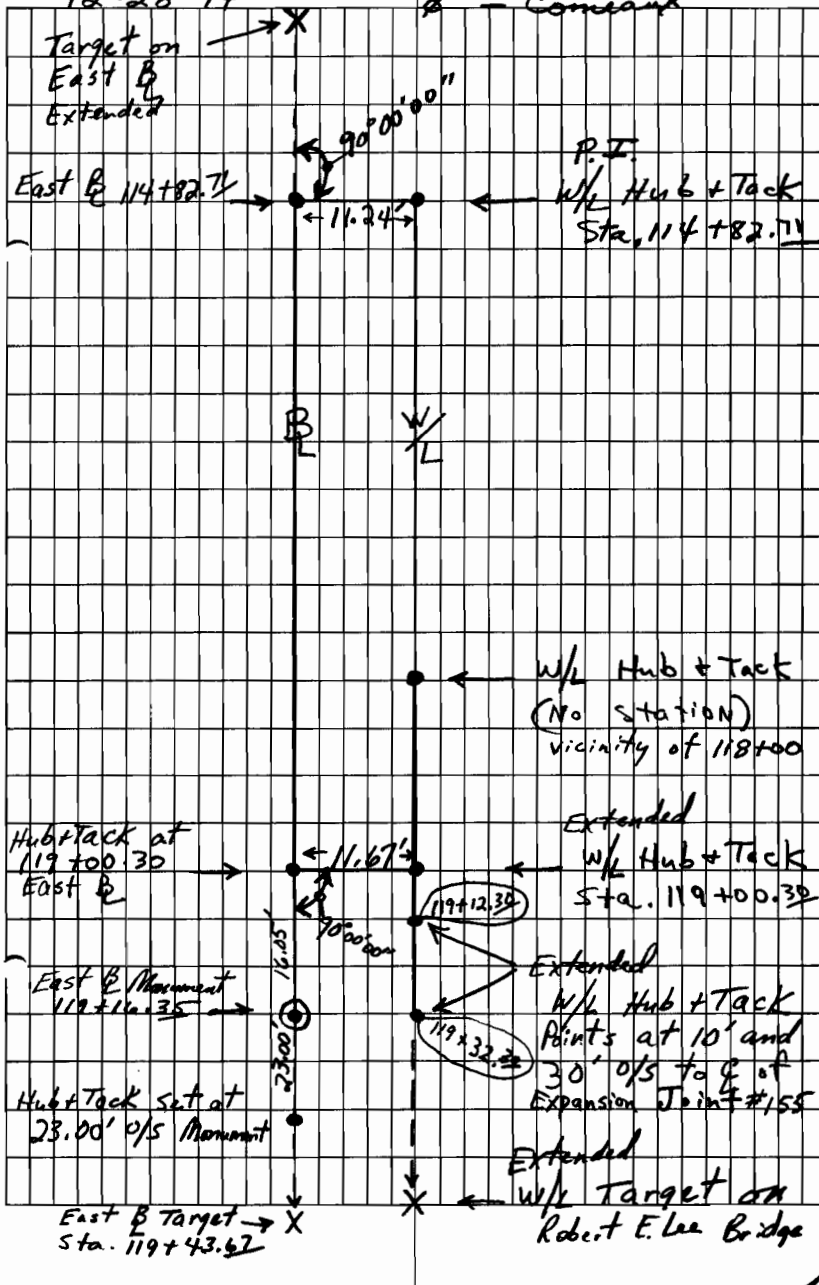
Marked exist. sheet pile at sta 114+82.71

(o/s to West face of Interlock = 6.90')

Pt. Cloudy + Mild

X ▽ - Justice
\$ - Jackson
- Comeaux

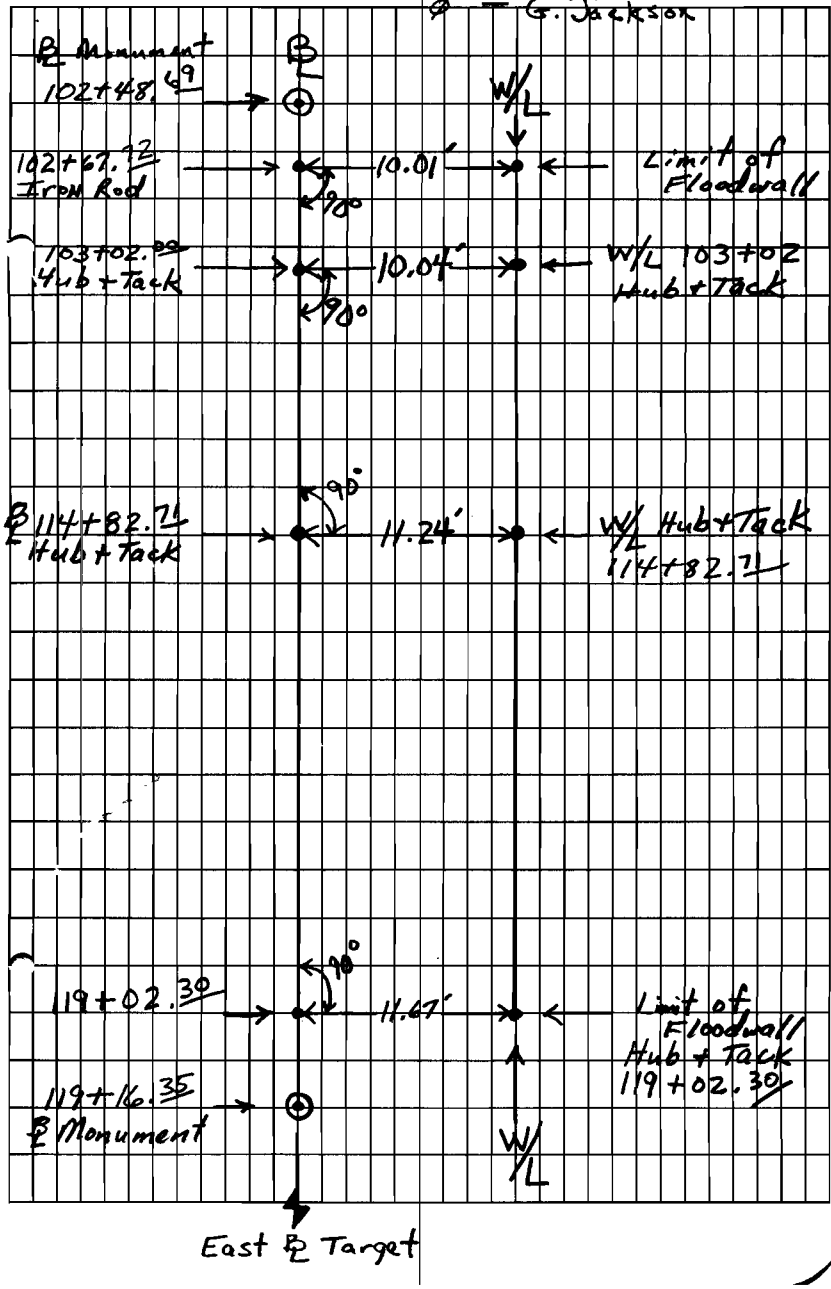
12-28-94



π at 102+67.72 East B_2
 F.S. East B_2 Target at 119+43.67
 Turn $\neq 90^\circ$ Left
 Set hub + tack at 10.01'
 West of B_2

π at 103+02.00 East B_2
 F.S. East B_2 Target 119+43.67
 Turn $\neq 90^\circ$ Left
 Set hub + tack at 10.045'
 West of B_2

π at w/L hub + tack at
 sta. 114+82.71
 F.S. w/L hub + tack at
 sta. 102+67.72
 Check alignment of hub + tack
 at sta. 103+02
 Error = 0.01'
 Turn \neq Right to hub + tack
 at w/L sta. 119+02.30
 $\neq = 180^\circ 00' 20''$



CELMN-CD-NO (1180-1-1q)

DATE: 12 June 1995
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London ave. Canal Floodwall, Contract #03

XXX

Attached are original field notes on stations _____
West B/L Sta's 100+00 to 115+00. Contractor's Original Field
Notes for the New Wall-Line Layout and References. Notes taken
from Contr's Book #02, Pages #17 thru #19.

Attached are final field notes on stations _____

Attached are original data for settlement plates for
stations _____

Attached are final data for settlement plates for
stations _____

Attached is additional information necessary for
calculation quantities on subject job.

The attached data is the last data necessary for
computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

XXX

Additional Comments: Also attached is a set of revised
stationing for new I-Wall Monoliths, between WB/L Sta's 101+73.80
and 119+63.43.

Attch

C. Ashley 6/22/95
CHESTER ASHLEY
Area Engineer

New Orleans Area Office

DAW-29-94-C-0079

Lake Pontchartrain LA., and Vicinity

HIGH LEVEL PLAN

London Avenue Outfall Canal

Parallel Protection

Thirabeau Ave. to Rober E. Lee Blvd.

WEST BANK

Mirabeau Ave to Leon C. Simon Blvd.

East Bank

Book # 2

Pages # 17, 18, + 19

I-Wall & Layout

WE 115+00 to 100+00

5-25-95

Jerry M. Justice

B+K Construction Co.

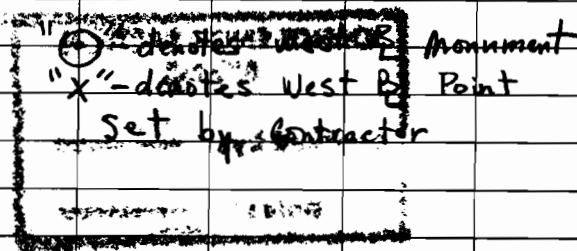
OFFICE ENGR SECTION	
N.C.C.	
Checked by:	<u> JH </u>
Date:	<u> 6-22-95 </u>

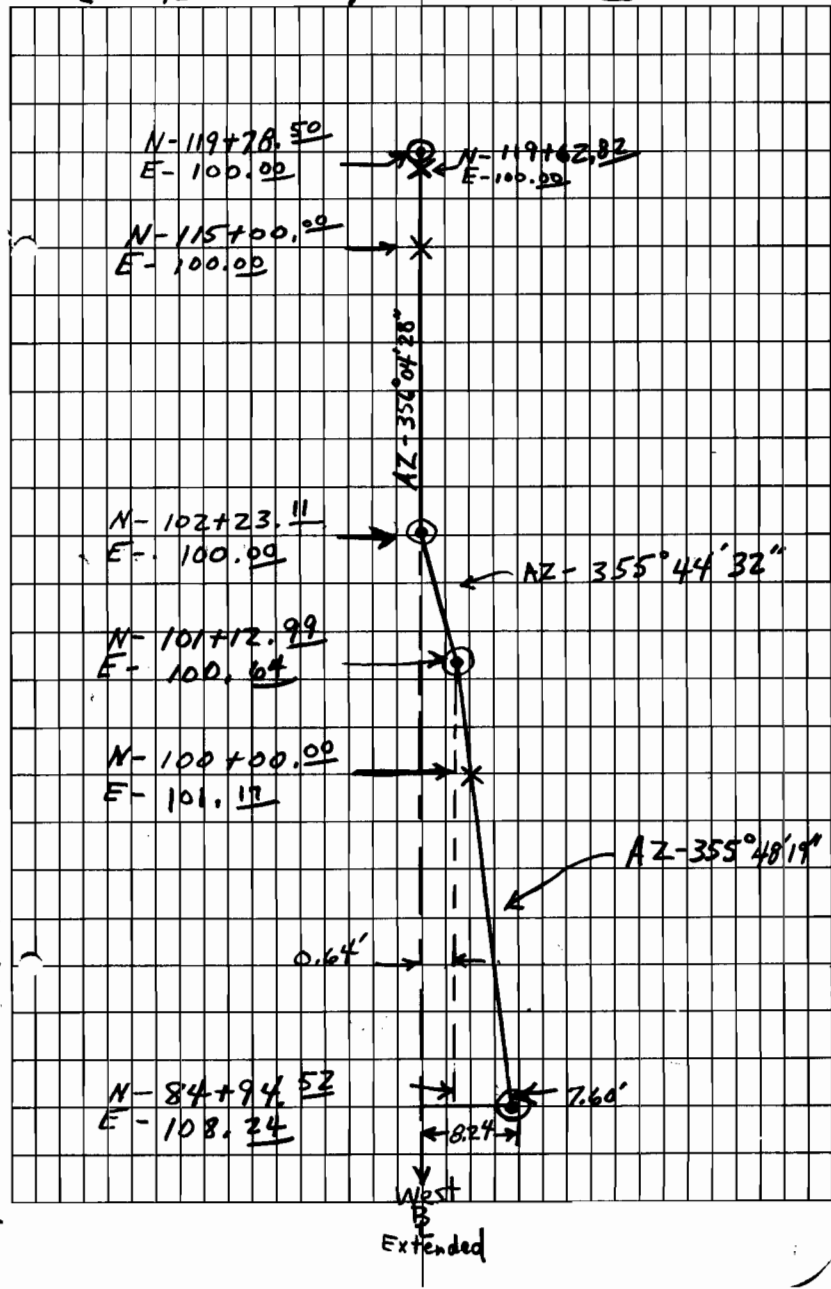
117 West Bank Sta. 115+00 → 100+00
☒ of I-Wall Layout

Assigned coordinates to West
☒ as follows: Northing = Station
Number as shown on contract drawings.
Easting = assigned coordinate
of 100.00 to West ☒ between
Sta. 119+78.50 and Sta. 102+23.44
(Azimuth = $356^{\circ}04'28''$)

Calculated ☒ deflection and
assigned East coordinates to West
☒ points needed for ☒ of I-Wall
Layout (see opposite page) →

Note: Limit of I-wall was changed
in the field from Sta. 119+62.82
to Sta. 119+63.43 (per sheet
pile shop drawings and Monolith
Progress chart)





18 West Bank Sta. 115+00 → 100+00
C of I-Wall Layout (Continued)

T at 119+78.50 West B
F.S. 102+23.11 West B
set hub + tack on West B
at sta. 115+00 (478.50' south)

T at B 115+00 Hub + Tack
B.S. B Monument 119+78.50
Turn $\times 90^\circ$ Right, set hub + tack
on I-Wall C (4.12' East)

T at West B Monument 102+23.11
B.S. B Monument 119+78.50
Turn $\times 90^\circ$ Right, set hub + tack
on I-Wall C (4.97' East)

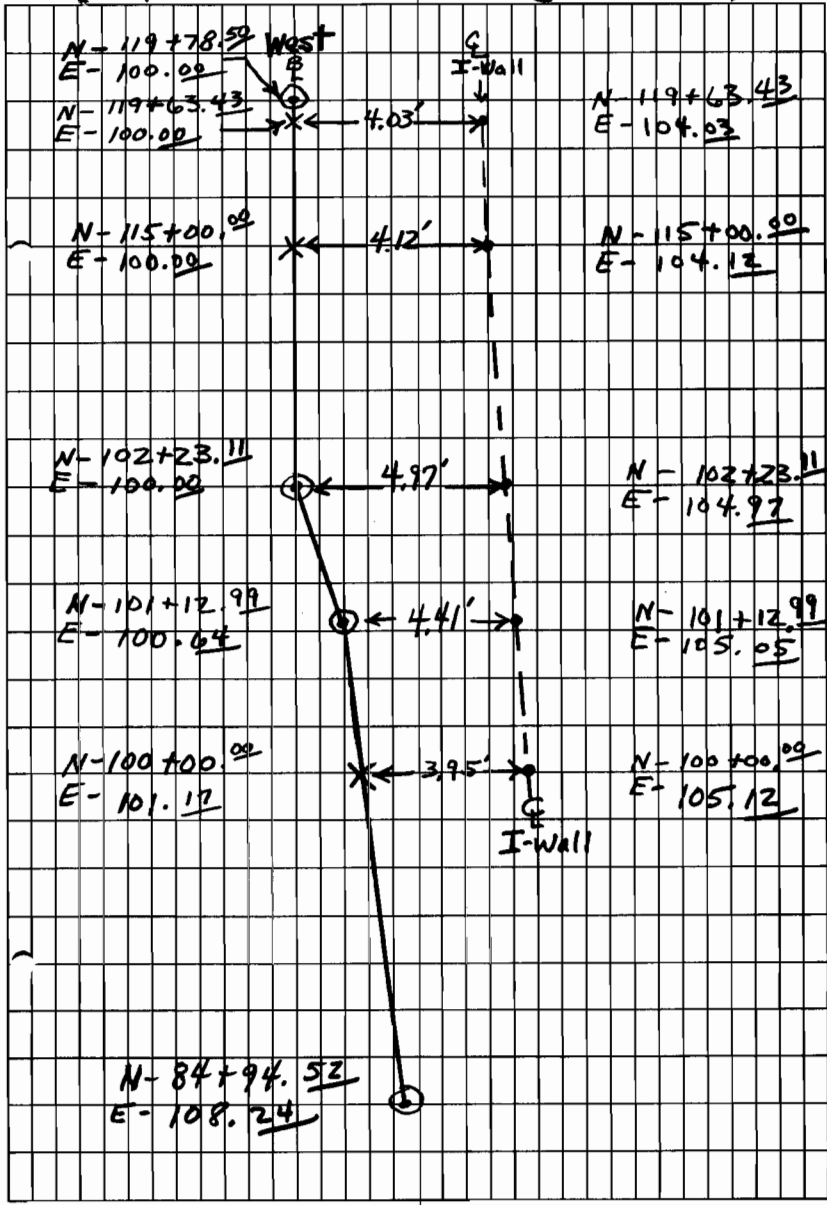
T at C I-Wall 102+23.11
F.S. C I-Wall 115+00
Set 16d Nails on C I-Wall
at 100' intervals (102+00 → 115+00)

* Marked target on Siphon Pipes
on C I-Wall for Foresight

5-25-95

(Same Party)

I-Wall to B offsets 18



19 West Bank 115+00 → 100+00
 E I-Wall Layout (Continued)

π at E I-Wall 102+23.11
 F.S. E I-Wall 115+00
 Read ruler for offsets
 from E to Edge of Existing
 Concrete Cap.
 (See Below)

Station No.	offset distance	description
102+00	1.81'	'X' ON PINK Aint
103+00	1.99'	Patch on west
104+00	1.90'	face of exist.
105+00	2.00'	Concrete floodwall
106+00		"
107+00		"
108+00	1.94'	"
109+00	1.96'	"
110+00	2.00'	"
111+00	1.95'	"
112+00	2.03'	"
113+00	2.09'	"
114+00	2.07'	"
115+00	2.05'	"

Σ = 259.75

* These offset marks will be used to layout I-wall for excavation, sheet pile work, and I-wall construction.

Monolith Progress Chart submitted and approved (by Sloan Engineering) will not work in the field. A copy of the revised Monolith Detail is attached to these Field Notes, and will serve as an as-built record for I-wall monoliths between west B Sta. 119 + 63.43 and Sta. 101 + 73.80

J. Justice

<u>112 + 12.94</u>				<u>104 + 33.59</u>
<u>112 + 41.81</u>		145	118	<u>104 + 62.45</u>
<u>112 + 70.67</u>		146	119	<u>104 + 91.32</u>
<u>112 + 99.54</u>		147	120	<u>105 + 20.18</u>
<u>113 + 28.40</u>		148	121	<u>105 + 49.05</u>
<u>113 + 57.27</u>		149	122	<u>105 + 77.91</u>
<u>113 + 86.13</u>		150	123	<u>106 + 06.78</u>
<u>114 + 15.00</u>		151	124	<u>106 + 35.64</u>
<u>114 + 43.86</u>		152	125	<u>106 + 64.51</u>
<u>114 + 72.73</u>		153	126	<u>106 + 93.37</u>
<u>115 + 01.59</u>		154	127	<u>107 + 22.24</u>
<u>115 + 30.46</u>		155	128	<u>107 + 51.10</u>
<u>115 + 59.32</u>		156	129	<u>107 + 79.97</u>
<u>115 + 88.19</u>		157	130	<u>108 + 08.83</u>
<u>116 + 17.05</u>		158	131	<u>108 + 37.70</u>
<u>116 + 45.92</u>		159	132	<u>108 + 66.56</u>
<u>116 + 74.78</u>		160	133	<u>108 + 95.43</u>
<u>117 + 03.65</u>		161	134	<u>109 + 24.29</u>
<u>117 + 32.52</u>		162	135	<u>109 + 53.16</u>
<u>117 + 61.38</u>		163	136	<u>109 + 82.02</u>
<u>117 + 90.25</u>		164	137	<u>110 + 10.89</u>
<u>118 + 19.11</u>		165	138	<u>110 + 39.75</u>
<u>118 + 47.97</u>		166	139	<u>110 + 68.62</u>
<u>118 + 76.84</u>		167	140	<u>110 + 97.48</u>
<u>119 + 05.70</u>		168	141	<u>111 + 26.35</u>
<u>119 + 34.57</u>		169	142	<u>111 + 55.21</u>
<u>119 + 63.43</u>		170	143	<u>111 + 84.08</u>
<u>119 + 67.29</u>	COLLAR	171	144	<u>112 + 12.94</u>

↓ Robert E. Lee Blvd. ↓

Robert E. Lee Blvd.
↓

CHASE
 WELLS FARGO BANK
 MONOLITH DETAIL
 (Revised 5-22-95)
 Injustice

CELMN-CD-NO (1180-1-1q)

DATE: 25 May 1995
zdb

MEMORANDUM THRU NOAO, ATTN: Office Engineering Section ~~_____~~

FOR C/Const Div, ATTN: C/Const Svc Sec

SUBJECT: Transmittal of Computation Information,
Contract No. DACW29-94-C-0079, London Ave. Canal Floodwall, Contract #03

Attached are original field notes on stations _____
West B/L Sta's 115+00 to 119+62.82. Contractor's Original Field
Notes for the New Wall-Line Layout and References. Notes taken
from Contr's Book #02, Pages #14 & #15.

Attached are final field notes on stations _____

Attached are original data for settlement plates for
stations _____

Attached are final data for settlement plates for
stations _____

Attached is additional information necessary for
calculation quantities on subject job.

The attached data is the last data necessary for
computing theoretical quantities. No more data is
needed for theoreticals.

The attached data is the last data necessary for
computing final quantities. No more data is needed
for finals.

Additional Comments: Also attached are Contr's Original Field
Notes for TBM's #W-1 thru #W-6 for this project on the West Levee.
Notes were taken from Contr's Book #01, Pages #11 & #12.

Attch

S. J. Marks 6/9/95
CHESTER ASHLEY
Area Engineer
Ja New Orleans Area Office

DAW29-94-C-0079
Lake Pontchartrain + Vicinity
High Level Plan, London
Avenue outfall canal,
Parallel Protection
Mirabeau to Robert E. Lee Blvd.
WEST BANK
Mirabeau to Lem C. Simon Blvd.
East Bank

BOOK # 1
PAGES # 11 and # 12

T.B.M. Level Loop
(West Bank - Robert E. Lee Blvd.
to Prentiss Avenue)

5-17-95

Jerry Justice
B+K Construction

OFFICE ENGR SECTION NOAO	
Checked by:	<u>WJH</u>
Date:	<u>6-9-95</u>

COE: J.A. [Signature]

DACW29-44-C-0079

11 T.B.M. Level Loop

West Bank - Robert E. Lee to Prentiss

Sta.	+	HI	-	Elev.	Bm
	2.981			9.321	"Z-A"
		12.302			
New TBM "W-1"			3.122	9.180	"W-1"
T.P. #1			0.929	11.373	
	0.122	11.495			
T.P. #2			7.828	3.667	
	6.643	10.310			
New TBM "W-2"			11.258	-0.948	"W-2"
	9.291	8.343			
T.P. #3			4.368	3.975	
	5.060	9.035			
New TBM "W-3"			10.623	-1.588	"W-3"
T.P. #4			5.657	3.378	
	4.641	8.019			
New TBM "W-4"			9.738	-1.719	"W-4"
T.P. #5			4.203	3.816	
	6.365	10.181			
New T.B.M. "W-5"			10.081	+0.100	"W-5"
T.P. #6			4.990	5.203	
	4.461	9.744			
New T.B.M. "W-6"			7.752	1.992	"W-6"

Break Set Up

(Return Loop on Next Page)

5-17-95

TJ - J. Justice
D - S. Thome

Pt. Cloudy 11
85°

← T.B.M. "Z-A" from Page # 8 of this book.

← Set new T.B.M. "W-1" on top of concrete step at exist. floodwall (West \mathbb{B} 119+75)

← set new T.B.M. "W-2" on top of $\frac{1}{2}$ " Iron Rod $\pm 1.5'$ on land side of Safety Fence at west \mathbb{B} 117+20 \pm .

← set new T.B.M. "W-3" on top of $\frac{1}{2}$ " Iron Rod $\pm 1.5'$ on land side of Safety Fence at west \mathbb{B} 114+25 \pm .

← set new T.B.M. "W-4" on top of $\frac{3}{4}$ " Iron Pipe at $\pm 1.5'$ on land side of Safety Fence at west \mathbb{B} 109+40 \pm .

← set new T.B.M. "W-5" on top of $\frac{3}{4}$ " Iron Pipe $\pm 1.5'$ on land side of Safety Fence at west \mathbb{B} 106+40 \pm .

← set new T.B.M. "W-6" on top of $\frac{1}{2}$ " Iron Rod $\pm 1.5'$ on land side of Safety Fence at west \mathbb{B} 102+50 \pm .

5-17-95

Some
Party

12

T.B.M. "W-6" from Page #11

← Tie-in to T.B.M. "Z-A" from Page #8
of this book.

DACW29-94-C-0079

Lake Pontchartrain and vicinity

High Level Plan, London Avenue
Outfall Canal, Parallel Protection
Mirabeau Ave. to Robert E. Lee Blvd.

West Bank

Mirabeau Ave. to Leon C. Simon Blvd.

East Bank

Book # 2

Pages # 14 and # 15

West Bank; sta. 119+62⁸² to 115+00

New I-Wall & Layout
and References

5-19-95

Jerry Justice

B+K Construction

I-Wall Layout and References

West β 119+62.82 to 115+00

π at West β Monument 119+78.50

F.S. West β Monument 102+23.11

Set hub + tack points at Station

119+62.82 (15.68' South) and

station 115+00 (478.50' South).

set hub + tack at sta. 119+82.82

for 20' o/s Limit of I-Wall

(4.32' North)

Scribed target on bridge abutment

at L.C. Simon bridge for a backsight

(West β Extended)

π set on W. β sta. 119+62.82

F.S. 102+23.11 W. β Monument

Turn \times 90° Left and set

hub + tack point at 4.03'

towards the East (Canal Side)

→ New β of I-Wall ←

π set on W. β sta. 115+00

F.S. 102+23.11 W. β Monument

Turn \times 90° Left and set

hub + tack point at 4.12'

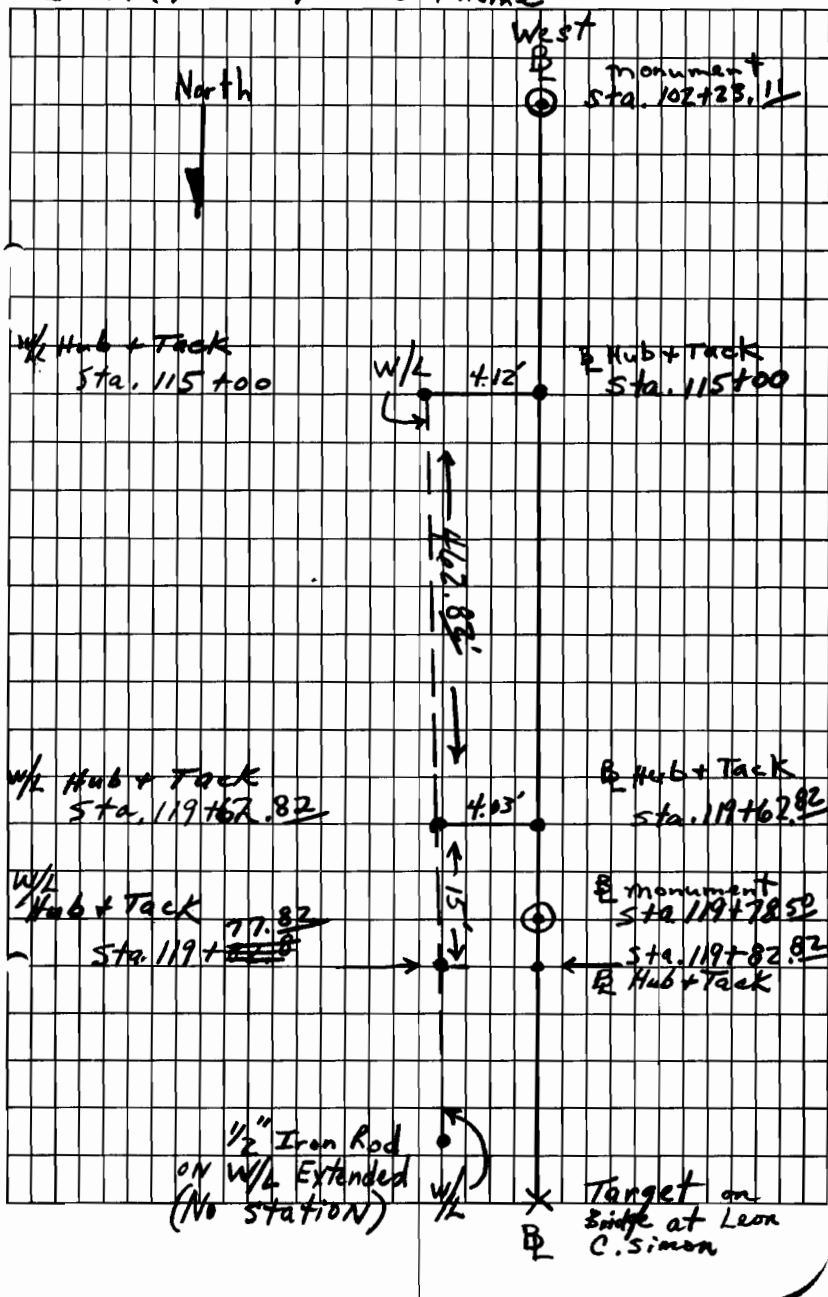
towards the East (Canal Side)

→ New β of I-Wall ←

5-19-95

J.J. - J. Justice
S. - S. Thome

14



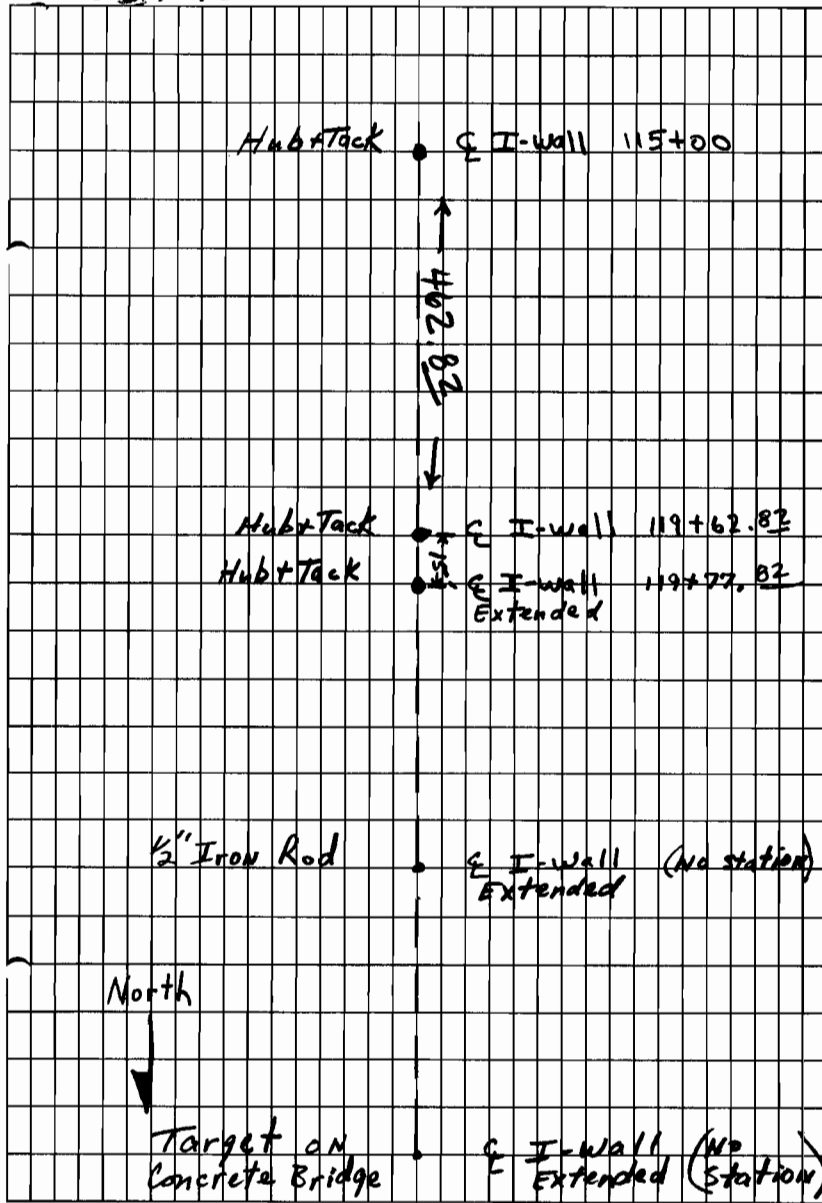
I-Wall Layout and References
(Continued from Page 14)

π at new I-wall $\&$ sta. 119+62.82
 F.S. new $\&$ I-wall sta. 115+00
 Flop barrel and set hubstake
 point on new $\&$ I-wall at sta.
 119+77.82 (15.00' North)
 Also set $\frac{1}{2}$ " rebar on $\&$ of
 new I-wall extended, approx.
 290' North of the North gutter
 line on the bridge at Robert E. Lee
 Blvd. (No station Number)
 Scribed target on bridge
 abutment at Leon C. Simon -
 New $\&$ of I-wall extended.

Flop barrel, check F.S. at 115+00,
 Mark offsets to $\&$ I-wall
 ON existing concrete floodwall

as follows:

West Baseline Station Number	I-Wall Centerline Offset Distance
119+00	1.98' (from $\&$ towards Canal)
118+00	1.99' "
117+00	2.05' "
116+00	2.02' "
115+00	2.04' "



ROUTING SLIP (AR 340-16)		NEVER USE FOR APPROVALS DISAPPROVALS, CONCURRENCES OR SIMILAR ACTIONS		
* 1ST DISTRIBUTION		INITIALS	DATE	
CELMN-RM-FE (DUP ORIG, 2 CYS)				
CELMN-RM-FT (DUP ORIG, 2 CYS)				
CELMN-CD-C , ATTN: SUE VISO (3 CYS)				
CELMN-CD-NO (6 CYS, W/DWG. W/PRICE NEG MEMO)				
CELMN-CD-LA (4 CYS, W/DWG. W/PRICE NEG MEMO)				
* 2ND DISTRIBUTION				
CELMN-ED-T				
CELMN-ED-L				
CELMN-ED-GS				
CELMN OD				
✓ CELMN-CD-QS				
LAO, JOHN CECCONI, IF MOD IS NOT SIGNED BY CONTRACTING OFFICER-LAO				
CELMN-PP				
PRES MRC, CELMV-ED (W/DWG) (96 X 3112)				
PRES MRC, CEMRC-CO-C (W/DWG) (96 X 3112)				
DIV ENGR, CELMV-ED (W/DWG) (ALL OTHER APPROPRIATIONS)				
DIV ENGR, CELMV-CO-C (W/DWG) (ALL OTHER APPROPRIATIONS)				
CELMN-CT-SB ATTN: KENNY ENCLADE FUND MODS 1989 & PRIOR				
CELMN-CD-C (3 CYS, W/DWG, W/PRICE NEG MEMO)				
DIV ENGR, CELMV-CT (W/PRICE NEG MEMO & GOVT EST IF OVER \$25,000.00)				
CELMN-PP-P (W/PRICE NEG MEMO)				
CONTRACT ADMIN., NEW ORLEANS ATTN: CINDY WHITTEN			AREA OFC	
CHECK ACTION DESIRED				
<input checked="" type="checkbox"/>	INFOR- MATION	SIGNA- TURE	NOTE AND RETURN	
	CIR- CULATE	NECES- SARY ACTION	SEE ME	
FROM CELMN-CT-R JOANN DAMARE		TELEPHONE X2880	DATE	
ORGANIZATION CELMN-CT-R				

2. AMENDMENT/MODIFICATION NO. P00009	3. EFFECTIVE DATE 05/02/95	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable) CIN-03
---	-------------------------------	----------------------------------	--

6. ISSUED BY US ARMY ENGR DIST NEW ORLEANS PO BOX 60267 NEW ORLEANS LA 70160-0267 Cynthia Whitten	CODE ISSUE1	7. ADMINISTERED BY (If other than item 6) CELMN-CT-R MS. WHITTEN PHONE: (504) 862-1899
---	----------------	--

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Vendor ID: 00001344 B&K CONSTRUCTION 1905 HIGHWAY 59 MANDEVILLE LA 70448	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. DACW29-94-C-0079
		10B. DATED (SEE ITEM 13) 07/11/94

CODE OGTN3	FACILITY CODE
---------------	---------------

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)	Mod Obligated Amount US	\$939.96
Funds in the amount of \$939.96 are available. See Attached.		

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

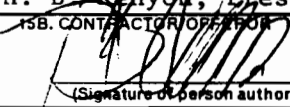

(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	CC 1.83 Changes
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return original ~~copy~~ to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The following change is made to the above numbered contract for Lake Pontchartrain, LA & Vicinity, HLP, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank; Mirabeau Avenue to Leon C. Simon Blvd., East Bank Floodwall, Orleans Parish, LA, to make a waterproof connection between the siphon pipes and the I-Wall at the pumping station and the electrical cable tray penetrating the wall.

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) H. B. Knyon, President/B & K CONSTRUCTION CO., INC.	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Chester Ashley, ACO 007
15B. CONTRACTOR OFFICIAL FOR  (Signature of person authorized to sign)	15C. DATE SIGNED 5/22/95
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 6/1/95

SF 30 CONTINUATION SHEET

12. Accounting and Appropriation Data (Cont.)

96X3122 BEC2111000NOLML

14. Description of Amendment/Modification (Cont.)

CHANGES TO THE BIDDING SCHEDULE: The schedule of Contract Items, Descriptions, Estimated Quantities, Units, Unit Prices, and Estimated Amounts is modified as follows:

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount	Amount of Change
0022	Reinforced Concrete Floodwall	LUMP SUM	LS	-----	\$1,488,259.96	(+)\$939.96

CHANGES TO THE CONTRACT SPECIFICATIONS: Add the following paragraphs:

1. "C3C-6.3 Field Molded Sealants shall conform to Federal Specification TT-S-227e, Type II for vertical joints, Class A. Bond breaker material shall be polyethylene, coated paper, metal foil or similar type materials. The backup material shall be compressible, nonshrink, nonreactive with sealant, and nonabsorptive material type such as extruded butyl or polychloroprene foam rubber."

2. "C3C-7.1.1 Joints with Field Molded Sealant shall not be sealed when the sealant, air or concrete temperature is less than 40 degrees Fahrenheit. Joints shall be primed and filled with the joint sealant specified in C3C-6.3 in accordance with the manufacturer's recommendation except that existing protective paint coatings on Sewerage and Water Board pipes shall be cleaned but not removed."

CHANGES TO THE CONTRACT DRAWINGS: Delete drawing 41 of 73, File No. H-4-40295, dated February 1994, and substitute with drawing 41 of 73, File No. H-4-40295, bearing revision 1, dated February 3, 1995.

Delete drawing 43 of 73, File No. H-4-40295, dated February 1994, and substitute with drawing 43 of 73, File No. H-4-40295, bearing revision 1, dated March 27, 1995.

CHANGES TO THE CONTRACT PRICE: The contract price is increased by \$939.96.

CHANGES TO THE CONTRACT TIME: The contract time is increased by one (1)

calendar day.

It is further understood and agreed that this adjustment constitutes compensation in full on behalf of the contractor, its subcontractors and suppliers for all costs and markups directly or indirectly attributable to the changes ordered for all delays, impacts, and extended overhead related thereto, and for performance of the change within the time frame stated.

CELMN-CD (1180-1-1q)

DATE: 2 AUGUST 1994

E.F.W.

X-2912

MEMORANDUM FOR : CELMN-NO

SUBJECT: Transmittal of Computation Information.

Contract No. DACW29- 94-C-0079, LONDON AVE. OUTFALL CANAL

XX

----- Attached are original field notes on stations;

STATIONS: 7000.00 - 8700.00 (EAST B/L)

----- Attached are final field notes on stations;

----- Attached are theoretical quantities for subject contract.

----- Attached are original cross section rolls for stations;

----- Attached are final cross section rolls for stations;

----- Attached is a list of stations and quantities of material which is below the lower grade tolerance. These quantities contain deducts which are calculated from the theoretical line. We do not know if the contractor is to rework the deficient areas, thus we cannot calculate subsidence, etc. Please advise us by memorandum by ----- whether the present finals will be the finals of if more work is to be done and other finals will be taken.

If you notice any errors, discrepancies or problems during the time we have done the computations, please advise R. Anderson (x 2935), R. Gonzalez (x 2925) or A. Ramirez (x1718).

Atch (dupe)

BRUCE A. TERRELL
Chief, Quality Assurance Branch

CELMN-CD (1180-1-1q)

DATE: 11 AUGUST 1994
E.F.W.
X-2912

MEMORANDUM FOR : CELMN-NO

SUBJECT: Transmittal of Computation Information.

Contract No. DACW29- 94-C-0079, LONDON AVE. OUTFALL CANAL

XX

----- Attached are original field notes on stations;

STATIONS; 8800.00, 10248.69 - 12688.58 (EAST B/L)
ALL STATIONS FLIPPED

----- Attached are final field notes on stations;

----- Attached are theoretical quantities for subject contract.

----- Attached are original cross section rolls for stations;

----- Attached are final cross section rolls for stations;

----- Attached is a list of stations and quantities of material which is below the lower grade tolerance. These quantities contain deducts which are calculated from the theoretical line. We do not know if the contractor is to rework the deficient areas, thus we cannot calculate subsidence, etc. Please advise us by memorandum by ----- whether the present finals will be the finals of if more work is to be done and other finals will be taken.

If you notice any errors, discrepancies or problems during the time we have done the computations, please advise R. Anderson (x 2935), R. Gonzalez (x 2925) or A. Ramirez (x1718).

Atch (dupe)

BRUCE A. TERRELL
Chief, Quality Assurance Branch

CELMN-CD (1180-1-1q)

②
DATE: 9 AUGUST 1994
E.F.W.
X-2912

MEMORANDUM FOR : CELMN-NO

SUBJECT: Transmittal of Computation Information.

Contract No. DACW29- 94-C-0079, LONDON AVE. OUTFALL CANAL

XX

----- Attached are original field notes on stations;

STATIONS; 10112.99 - 11978.50 (WEST B/L)
8900.00 - 9996.67 (EAST B/L) FLIPPED

----- Attached are final field notes on stations;

----- Attached are theoretical quantities for subject contract.

----- Attached are original cross section rolls for stations;

----- Attached are final cross section rolls for stations;

----- Attached is a list of stations and quantities of material which is below the lower grade tolerance. These quantities contain deducts which are calculated from the theoretical line. We do not know if the contractor is to rework the deficient areas, thus we cannot calculate subsidence, etc. Please advise us by memorandum by _____ whether the present finals will be the finals of if more work is to be done and other finals will be taken.

If you notice any errors, discrepancies or problems during the time we have done the computations, please advise R. Anderson (x 2935), R. Gonzalez (x 2925) or A. Ramirez (x1718).

Atch (dupe)

BRUCE A. TERRELL
Chief, Quality Assurance Branch



CELMN-CD (1180-1-1q)

DATE: 2 AUGUST 1994

E.F.W.
X-2912

MEMORANDUM FOR : CELMN-NO

SUBJECT: Transmittal of Computation Information.

Contract No. DACW29- 94-C-0079, LONDON AVE. OUTFALL CANAL

XX

----- Attached are original field notes on stations;

STATIONS; 7047.00 - 10100.00 (WEST B/L)

----- Attached are final field notes on stations;

----- Attached are theoretical quantities for subject contract.

----- Attached are original cross section rolls for stations;

----- Attached are final cross section rolls for stations;

----- Attached is a list of stations and quantities of material which is below the lower grade tolerance. These quantities contain deducts which are calculated from the theoretical line. We do not know if the contractor is to rework the deficient areas, thus we cannot calculate subsidence, etc. Please advise us by memorandum by _____ whether the present finals will be the finals of if more work is to be done and other finals will be taken.

If you notice any errors, discrepancies or problems during the time we have done the computations, please advise R. Anderson (x 2935), R. Gonzalez (x 2925) or A. Ramirez (x1718).

Atch (dupe)

BRUCE A. TERRELL
Chief, Quality Assurance Branch

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D280794
 0. 1000.00 O94C079A.LAA
 0. 1000.00 J.GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B/L
 0. 1000.00 JECA#11
 12728. 9.66 ELEV.=9.66
 100. 1.57

70+00

-17. 0.88 ES=WE
 -14. 4.15
 -10. 4.62 BOTTOM WALL
 -9. 11.04 TSP
 -7. 7.01 BOTTOM WALL
 0. 6.74 CL (B/L)
 6. 5.84
 18. 3.62
 29. 1.57

70+26.77

-17. 1.91
 -12. 4.74
 -10. 4.85
 -9. 6.09 TSP
 -7. 7.10
 -7. 11.29 TSP
 -6. 0.43
 -4. 0.62
 0. 5.14 CL (B/L)
 6. 3.61
 16. -0.33 ES

71+00

-16. 0.68 ES=WE
 -13. 3.07
 -9. 4.02
 -8. 5.95 TOP WALL
 -6. 6.76 BOTTOM WALL
 -6. 11.26 TOP WALL
 -5. 5.27 BOTTOM WALL
 0. 5.09 CL (B/L)
 3. 4.61
 10. 2.76
 18. 0.38
 22. 0.11

72+00

-15. 0.94
 -12. 3.13
 -9. 3.86
 -8. 5.74 TOP WALL

-6. 6.29 BOTTOM WALL
-5. 11.27 TOP WALL
-5. 5.10
0. 4.87 CL (B/L)
5. 4.21
12. 1.77
18. -1.46
22. -2.04 ES

124. 5.21 NA
34. -2.25

73+00

-15. 0.81 ES=WE
-14. 2.69
-9. 4.04 BOTTOM WALL
-9. 11.20 TOP WALL
-7. 5.71 BOTTOM WALL
0. 5.40 CL (B/L)
4. 4.86
14. 1.27
21. -2.25

74+00

-14. 0.97
-13. 3.85
-8. 4.22 BOTTOM WALL
-9. 11.24 TOP WALL
-6. 5.72 BOTTOM WALL
0. 5.57 CL (B/L)
6. 4.42
14. 1.06
20. -1.42 ES

192. 4.59 NA
92. -2.04

75+00

-14. 0.89 ES=WE
-14. 2.64
-9. 4.19 BOTTOM WALL
-9. 11.24 TOP WALL
-7. 5.66 BOTTOM WALL
0. 5.52 CL (B/L)
4. 4.84
12. 1.85
21. -2.04

76+00

-14. 1.69
-12. 3.54
-9. 3.89 BOTTOM WALL
-8. 11.25 TOP WALL
-7. 5.68 BOTTOM WALL
0. 5.68 CL (B/L)

4. 5.16
11. 2.59
21. -1.98 ES

77+00

-12. 1.10 ES=WE
-12. 2.77
-9. 3.40 BOTTOM WALL
-9. 11.22 TOP WALL
-7. 5.56 BOTTOM WALL
0. 5.45 CL (B/L)
5. 4.71
15. 0.69
22. -2.24

78+00

-15. 0.79
-12. 3.24
-9. 3.66 BOTTOM WALL
-8. 11.21 TOP WALL
-6. 5.02 BOTTOM WALL
0. 4.80 CL (B/L)
6. 3.83
13. 1.08
21. -2.27 ES

144. 4.99 NA
47. -1.76

79+00

-15. 1.07 ES=WE
-13. 2.94
-10. 4.08 BOTTOM WALL
-8. 11.29 TOP WALL
-7. 5.94 BOTTOM WALL
0. 5.79 CL (B/L)
4. 5.40
13. 1.61
22. -1.76

80+00

-14. 1.18
-13. 3.04
-8. 3.82 BOTTOM WALL
-8. 11.20 TOP WALL
-6. 4.68 BOTTOM WALL
0. 4.96 CL (B/L)
4. 4.49
11. 2.14
21. -2.27 ES

184. 4.79 NA
85. -1.90

81+00

-15. 1.20 ES=WE
-12. 2.86
-9. 4.05 BOTTOM WALL
-8. 11.18 TOP WALL
-6. 5.19 BOTTOM WALL
0. 5.34 CL (B/L)
3. 4.92
12. 1.82
22. -1.90

82+00

-14. 0.94
-12. 2.70
-9. 4.30 BOTTOM WALL
-8. 11.34 TOP WALL
-6. 5.84 BOTTOM WALL
0. 5.77 CL (B/L)
4. 5.24
12. 2.25
21. -2.10 ES

83+00

-13. 1.16 ES=WE
-12. 2.80
-10. 4.06 BOTTOM WALL
-8. 11.39 TOP WALL
-6. 5.82 BOTTOM WALL
0. 5.28 CL (B/L)
4. 4.80
15. 0.83
22. -2.85

148. -0.25 NA
54. 1.27

84+00

-12. 1.27
-11. 3.33
-8. 3.81 BOTTOM WALL
-8. 11.32 TOP WALL
-6. 5.93 BOTTOM WALL
0. 5.57 CL (B/L)
5. 5.03
12. 2.31
18. -1.18
23. -2.47 ES

84+20.31

-11. 1.23 ES=WE
-11. 3.01
-8. 3.76 BOTTOM WALL
-8. 11.29 TOP WALL
-6. 5.67 BOTTOM WALL
0. 5.71 CL (B/L)
5. 5.21
11. 2.94
17. -0.15

22. -1.68

84+31.10

-12. 1.20
-11. 3.32
-9. 3.87 BOTTOM WALL
-8. 11.29 TOP WALL
-6. 5.73 BOTTOM WALL
-4. 5.67
0. 5.67 CL (B/L)
5. 5.12
11. 2.56
17. -0.51
21. -1.68 ES

95. 7.37 NA

60. 4.31

84+71.30

-9. 1.23 ES=WE
-9. 3.03
-8. 3.52 BOTTOM WALL
-7. 11.27 TOP WALL
-6. 11.19 TOP WALL
-6. 5.88 BOTTOM WALL
0. 5.61 CL (B/L)
14. 5.66
32. 4.31

85+54.63

-23. 0.98
-18. 3.13 TOP ROCKS
-9. 5.51 TOP ROCKS
-8. 6.39 TSP
-6. 6.94 TOP ROCKS
-6. 11.29 TSP
-5. 6.31 BOTTOM WALL
-2. 6.01
-0. 6.26 TOP CONCRETE
0. 6.22 CL (B/L)
3. 5.96 TOP CONCRETE
7. 5.84
15. 3.35
21. 0.77
29. -1.15 ES

86+00

-25. 1.25 ES=WE
-16. 4.33 TOP ROCKS
-9. 4.44 TOP ROCKS
-9. 6.12 TSP
-6. 7.87 TOP ROCKS
-6. 11.27 TSP
-5. 6.60 BOTTOM WALL
0. 6.25 CL (B/L)
3. 5.79
10. 2.91

20. -1.80

87+00

-24.	1.24	
-19.	3.53	
-8.	4.04	TOP ROCKS
-8.	6.37	TSP
-6.	7.34	TOP ROCKS
-6.	11.22	TSP
-4.	6.34	
0.	6.12	CL (B/L)
3.	5.73	
11.	2.65	
15.	0.05	
17.	-2.16	EJ

TO TIE IN:

187.	9.37	TBM#6.
0.	9.37	E=9.34

END OF RUN

RED.
DIST. / ELEV.

TO START & IDENTIFY JOB:

- 0. 1000.00 D020894
- 0. 1000.00 O94C079B.LAA
- 0. 1000.00 J. GREMILLION
- 0. 1000.00 LONDON AVE. OUTFALL CANAL
- 0. 1000.00

70+47

- 15. 1.77
- 8. 3.59
- 2. 4.89
- 0. 5.00 CL (BL)
- 6. 4.81 BOTTOM WALL
- 8. 10.99 TOP WALL
- 9. 3.41 BOTTOM WALL
- 13. 3.82
- 19. 1.80 ES=WE

71+00

- 15. 0.96 ES
- 8. 2.68
- 0. 4.21 CL (BL)
- 7. 4.15 BOTTOM WALL
- 8. 11.10 TOP WALL
- 9. 2.93 BOTTOM WALL
- 14. 2.94
- 20. 1.75

-
- 12. 3.71 NA
 - 95. 0.94
-

72+00

- 15. 0.94
- 7. 2.94
- 2. 4.26
- 0. 4.52 CL (BL)
- 8. 4.52 BOTTOM WALL
- 10. 11.25 TOP WALL
- 10. 3.32 BOTTOM WALL
- 15. 3.69
- 21. 1.59 ES=WE

-
- 154. 4.59 NA
 - 55. 1.68
-

73+00

- 15. 0.99 ES
- 9. 2.47
- 3. 4.18

0. 4.44 CL (BL)
9. 4.44 BOTTOM WALL
11. 11.27 TOP WALL
11. 3.56 BOTTOM WALL
15. 3.58
20. 1.68

74+00

-16. 0.86
-11. 2.27
-3. 4.40
0. 4.78 CL (BL)
2. 4.97
9. 4.76 BOTTOM WALL
11. 11.25 TOP WALL
12. 2.95 BOTTOM WALL
18. 2.74
19. 1.24 ES=WE

151. 3.70 NA
60. 1.70

74+92.00

-17. 0.55 ES
-13. 1.70
-8. 2.60
0. 4.55 CL (BL)
1. 4.75
10. 4.96 BOTTOM WALL
11. 11.27 TOP WALL
12. 3.20 BOTTOM WALL
16. 3.57
23. 1.70

75+00

-16. -0.21
-11. 1.73
-4. 3.49
0. 4.43 CL (BL)
3. 4.82
10. 5.04 BOTTOM WALL
12. 11.27 TOP WALL
12. 3.07 BOTTOM WALL
18. 2.69
24. 1.02 ES=WE

76+00

-17. -1.49 ES
-8. 1.23
0. 3.95 CL (BL)
3. 4.64
10. 4.74 BOTTOM WALL
11. 11.24 TOP WALL
12. 3.31 BOTTOM WALL
17. 3.01
22. 2.58
24. 1.66

148. 4.72 NA
51. -2.21

77+00
-16. -2.21
-7. 1.16
0. 3.80 CL (BL)
2. 4.54
6. 4.93
10. 4.93 BOTTOM WALL
12. 11.27 TOP WALL
12. 3.18 BOTTOM WALL
16. 3.39
20. 2.76
25. 1.66 ES=WE

78+00
-28. -3.46 ES
-23. -3.01
-17. -0.75
-7. 2.25
0. 4.86 CL (BL)
3. 5.08
9. 5.59 BOTTOM WALL
11. 11.27 TOP WALL
11. 4.44 BOTTOM WALL
15. 4.77
21. 3.47
25. 2.53
26. 1.08

161. 4.83 NA
58. -0.39

79+00
-17. -0.39
-8. 2.89
-2. 5.22
0. 5.61 CL (BL)
9. 5.86 BOTTOM WALL
10. 11.24 TOP WALL
10. 4.12 BOTTOM WALL
19. 3.35
25. 2.82
25. 1.55 ES=WE

80+00
-26. -0.48 ES
-16. 1.97
-5. 4.91
0. 5.56 CL (BL)
4. 5.80
8. 5.68 BOTTOM WALL
10. 11.28 TOP WALL

11. 2.65 BOTTOM WALL
15. 2.31
22. 2.54
24. 1.07

81+00

-26. 0.25
-25. 0.32
-14. 3.91
-5. 5.98
0. 6.18 CL (BL)
8. 6.17 BOTTOM WALL
10. 11.26 TOP WALL
11. 2.53 BOTTOM WALL
17. 2.37
21. 2.28
23. 1.50 ES=WE

196. 5.39 NA
102. 1.20

82+00

-26. 0.21 ES
-14. 2.69
-5. 4.68
0. 5.14 CL (BL)
7. 5.21 BOTTOM WALL
8. 11.20 TOP WALL
10. 2.09 BOTTOM WALL
15. 2.39
21. 2.50
24. 1.20

83+00

-25. 0.45
-16. 3.25
-11. 4.74
-6. 5.45
0. 5.61 CL (BL)
7. 5.24 BOTTOM WALL
9. 11.24 TOP WALL
10. 2.72 BOTTOM WALL
19. 2.44
24. 2.21
24. 1.61 ES=WE

141. 4.23 NA
50. 1.11

84+00

-24. 1.71 ES
-13. 2.88
-5. 4.36
0. 4.70 CL (BL)
7. 4.42 BOTTOM WALL

9. 11.34 TOP WALL
10. 2.50 BOTTOM WALL
16. 2.53
23. 2.19
25. 1.11

84+50.00

-24. 1.24
-17. 2.54
-9. 4.06
0. 4.76 CL (BL)
7. 4.65 BOTTOM WALL
8. 11.19 TOP WALL
9. 3.01 BOTTOM WALL
18. 2.66
23. 2.55
26. 1.13 ES=WE

84+54.72

-23. 1.05 ES
-20. 1.75
-15. 2.93
-7. 4.22
0. 4.72 CL (BL)
7. 4.84 BOTTOM WALL
8. 11.24 TOP WALL
8. 2.92 BOTTOM WALL
16. 2.40
24. 2.73
26. 1.32

105. 6.05 NA
65. 3.27

84+94.52

-23. 3.27
-13. 5.07 TOP CONCRETE
-9. 5.41 TOP CONCRETE
0. 5.54 CL (BL)
7. 5.72 BOTTOM WALL
7. 11.27 TOP WALL
9. 11.24 TOP WALL
9. 3.28 BOTTOM WALL
17. 2.40
21. 2.39
24. 1.87 ES=WE

85+90.00

-40. -1.86 EJ
-37. -1.64
-31. 0.52
-24. 3.18
-19. 4.52
-13. 6.14
-5. 6.59
-4. 6.66 TOP CONCRETE
-1. 6.62 TOP CONCRETE

0.	6.52	CL (BL)
7.	5.91	BOTTOM WALL
8.	11.27	TOP WALL
9.	2.63	BOTTOM WALL
12.	2.51	
20.	2.12	
21.	1.71	

TO TIE IN:

99.	5.35	TBM#LCE9
0.	5.35	E=5.36

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D030894
 0. 1000.00 O94C079C.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL WESTSIDE B/L
 11820. 1000.00 TBM JECA#12
 0. 6.03 ELEV.=6.03
 49. -0.20

86+00

-29. -0.20
 -22. 3.17
 -11. 6.13
 0. 6.65 CL (BL)
 7. 6.23 BOTTOM WALL
 9. 11.29 TOP WALL
 9. 2.48 BOTTOM WALL
 14. 2.48
 21. 2.17
 22. 1.38 ES=WE

 42. 6.38 NA
 69. 1.59

87+00

-34. -2.77 ES
 -24. 0.63
 -15. 4.84
 -7. 6.56
 0. 6.76 CL (BL)
 7. 6.24 BOTTOM WALL
 8. 11.43 TOP WALL
 9. 2.85 BOTTOM WALL
 13. 2.56
 20. 2.20
 22. 1.59

 144. 6.79 NA
 48. -2.54

88+00

-32. -2.54
 -23. 2.07
 -12. 6.47
 -7. 7.11
 0. 6.92 CL (BL)
 6. 6.36 BOTTOM WALL
 7. 11.42 TOP WALL

9. 3.18 BOTTOM WALL
16. 2.35
23. 2.46 ES=WE

89+00

-26. -1.02 ES
-14. 4.46
-8. 5.75
0. 6.24 CL (BL)
6. 6.07 BOTTOM WALL
8. 11.45 TOP WALL
8. 3.72 BOTTOM WALL
21. 2.46
23. 2.05

142. 5.29 NA
52. -1.31

90+00

-28. -1.31
-17. 2.62
-10. 5.02
-5. 5.54
0. 5.98 CL (BL)
6. 5.91 BOTTOM WALL
8. 11.43 TOP WALL
7. 3.63 BOTTOM WALL
17. 2.79
24. 2.44 ES=WE

91+00

-30. -1.13 ES
-25. -0.48
-19. 1.82
-10. 5.05
0. 6.14 CL (BL)
5. 6.18 BOTTOM WALL
7. 11.41 TOP WALL
8. 3.18 BOTTOM WALL
13. 2.15

77. 6.33 NA
40. -2.20

92+00

-32. -2.20
-21. 0.78
-7. 5.41
0. 6.12 CL (BL)
6. 6.25 BOTTOM WALL
8. 11.44 TOP WALL
8. 3.74 BOTTOM WALL
16. 2.25
21. 1.88 ES=WE

144. 6.11 NA
53. 1.16

93+00
-25. -0.55 ES
-18. 1.95
-11. 4.58
-6. 5.83
0. 5.87 CL (BL)
6. 6.04 BOTTOM WALL
8. 11.41 TOP WALL
9. 3.77 BOTTOM WALL
12. 3.40
17. 2.29
28. 1.16

94+00
-23. -0.47
-14. 2.90
-9. 4.87
-4. 5.72
0. 6.05 CL (BL)
6. 5.85 BOTTOM WALL
7. 11.45 TOP WALL
8. 3.83 BOTTOM WALL
13. 2.87
15. 2.19 ES=WE

172. 5.14 NA
72. 1.96

95+00
-29. -2.54 ES
-17. 1.39
-8. 5.05
-4. 6.19
0. 6.59 CL (BL)
6. 6.28 BOTTOM WALL
7. 11.47 TOP WALL
9. 3.27 BOTTOM WALL
12. 2.46
19. 1.96

96+00
-21. 0.27
-12. 3.46
-5. 5.21
0. 5.56 CL (BL)
5. 5.46 BOTTOM WALL
7. 11.44 TOP WALL
8. 4.22 BOTTOM WALL
17. 2.32
18. 2.24
28. 2.54 ES=WE

105. 5.16 NA
29. 2.40

97+00

-21. 0.19 ES
-12. 2.84
-5. 5.07
0. 5.45 CL (BL)
5. 5.32 BOTTOM WALL
7. 11.51 TOP WALL
8. 4.12 BOTTOM WALL
11. 3.90
17. 2.43
25. 2.40

151. 4.98 NA
54. 0.81

98+00

-19. 0.81
-9. 3.89
-4. 5.55
0. 5.87 CL (BL)
5. 6.04 BOTTOM WALL
7. 11.50 TOP WALL
8. 3.99 BOTTOM WALL
14. 2.57
17. 2.04 ES=WE

99+00

-18. 0.85 ES
-12. 2.99
-4. 5.16
0. 5.48 CL (BL)
5. 5.57 BOTTOM WALL
7. 11.46 TOP WALL
7. 4.30 BOTTOM WALL
11. 4.05
15. 2.69
22. 2.25

116. 5.69 NA
45. 0.40

99+73.67

-17. 0.40
-9. 3.70
-4. 5.68
0. 5.82 CL (BL)
6. 5.89 BOTTOM WALL
8. 11.50 TOP WALL
8. 4.12 BOTTOM WALL
14. 2.98

22. 2.36 ES=WE

99+83.67

-21. -1.19 ES
-12. 2.37
-4. 5.48
0. 5.77 CL (BL)
6. 5.85 BOTTOM WALL
8. 11.50 TOP WALL
8. 3.94 BOTTOM WALL
13. 2.93
17. 1.95

100+00

-21. -1.31
-12. 2.56
-4. 5.39
0. 5.77 CL (BL)
6. 5.77 BOTTOM WALL
8. 11.51 TOP WALL
8. 3.91 BOTTOM WALL
13. 3.38
18. 2.24 ES=WE

100+29.00

-21. -1.06 ES
-13. 2.41
-5. 5.17
0. 5.68 CL (BL)
6. 5.98 BOTTOM WALL
8. 11.48 TOP WALL
8. 4.59 BOTTOM WALL
12. 3.78
15. 1.74

100+39

-22. -1.04
-19. 0.62
-12. 3.39
-5. 5.32
0. 5.73 CL (BL)
6. 5.85 BOTTOM WALL
8. 11.44 TOP WALL
8. 4.54 BOTTOM WALL
11. 4.31 CONCRETE
13. 3.44 CONCRETE
17. 2.09 ES=WE

101+00

-31. -0.84 EJ
-23. -0.03
-14. 2.21
-6. 5.03
0. 5.63 CL (BL)
6. 5.89 BOTTOM WALL
9. 11.36 TOP WALL
8. 4.51 BOTTOM WALL
10. 4.43 TOP CONCRETE
14. 3.47 TOP CONCRETE

16. 1.85

TO TIE IN:

75. 1.08 TBM JECA#4

0. 1.08 ELEV.=1.11

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D040894
 0. 1000.00 O94C079D.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL WESTSIDE B\L
 0. 1000.00 TBM JECA#13
 10572. 5.73 ELEV.=5.73
 104. -1.71

101+12.99

-39. -1.71
 -23. 0.73
 -11. 3.55
 -3. 5.63
 0. 5.88 CL (BL)
 6. 6.21 BOTTOM WALL
 8. 11.43 TOP WALL
 9. 4.49 BOTTOM WALL
 11. 4.46 TOP CONCRETE
 14. 3.16 TOP CONCRETE
 19. 1.37 ES=WE

 58. 2.90 NA
 56. 1.69

102+00

-35. -2.22 ES
 -24. 0.22
 -14. 2.96
 -6. 5.41
 0. 5.72 CL (BL)
 6. 5.57 BOTTOM WALL
 8. 11.44 TOP WALL
 9. 4.51 BOTTOM WALL
 11. 4.53 TOP CONCRETE
 14. 3.48 TOP CONCRETE
 19. 1.69

102+23.11

-35. -2.20
 -26. 0.12
 -19. 1.31
 -7. 5.19
 0. 5.85 CL (BL)
 6. 6.11 BOTTOM WALL
 8. 11.40 TOP WALL
 9. 4.45 BOTTOM WALL
 11. 4.42 TOP CONCRETE
 16. 3.02 TOP CONCRETE
 19. 1.59 ES=WE

102+81.00

-17. 0.90 ES
-11. 3.05
-5. 4.99
0. 5.58 CL (BL)
7. 5.70 BOTTOM WALL
8. 11.38 TOP WALL
9. 3.70 BOTTOM WALL
11. 3.53
15. 0.92

103+00

-18. 0.58
-11. 2.96
-5. 5.00
0. 5.35 CL (BL)
7. 5.09 BOTTOM WALL
8. 11.35 TOP WALL
9. 3.69 BOTTOM WALL
12. 3.51
13. 2.87
16. 1.11 ES=WE

148. 5.47 NA
50. 2.49

104+00

-17. 0.75 ES
-12. 2.21
-5. 4.46
0. 5.13 CL (BL)
7. 4.84 BOTTOM WALL
9. 11.49 TOP WALL
9. 3.86 BOTTOM WALL
15. 2.97
19. 2.49

105+00

-23. -1.26
-13. 1.94
-5. 5.32
0. 5.85 CL (BL)
7. 5.58 BOTTOM WALL
8. 11.46 TOP WALL
9. 4.03 BOTTOM WALL
17. 2.42
24. 1.85 ES=WE

146. 5.62 NA
50. 2.16

106+00

-37. -3.17 ES
-27. -2.85

-14. 2.20
-5. 5.62
0. 5.92 CL (BL)
7. 5.52 BOTTOM WALL
9. 11.53 TOP WALL
9. 3.81 BOTTOM WALL
17. 2.55
24. 2.16

107+00

-26. -2.26
-15. 2.13
-6. 5.45
0. 5.94 CL (BL)
7. 5.81 BOTTOM WALL
8. 11.51 TOP WALL
9. 4.14 BOTTOM WALL
17. 2.53
20. 1.86 ES=WE

163. 4.68 NA
67. 1.83

108+00

-24. -1.84 ES
-21. -1.33
-15. 0.92
-5. 4.78
0. 5.54 CL (BL)
6. 5.58 BOTTOM WALL
8. 11.50 TOP WALL
8. 4.13 BOTTOM WALL
12. 3.18
26. 1.83

109+00

-25. -2.61
-19. -0.98
-12. 1.67
-5. 4.90
0. 5.36 CL (BL)
6. 5.47 BOTTOM WALL
8. 11.45 TOP WALL
9. 3.86 BOTTOM WALL
16. 2.55
23. 2.14 ES=WE

154. 4.56 NA
59. 1.89

110+00

-26. -2.85 ES
-15. 1.18
-5. 4.90
0. 5.47 CL (BL)

6. 5.57 BOTTOM WALL
8. 11.50 TOP WALL
9. 3.66 BOTTOM WALL
15. 2.23
22. 1.89

111+00

-25. -1.86
-16. 0.18
-12. 1.34
-5. 4.28
0. 4.98 CL (BL)
6. 5.11 BOTTOM WALL
8. 11.48 TOP WALL
9. 3.55 BOTTOM WALL
20. 2.26
22. 2.41 ES=WE

153. 4.69 NA
60. 2.54

112+00

-27. -2.05 ES
-16. 0.76
-5. 4.77
0. 5.45 CL (BL)
6. 5.67 BOTTOM WALL
7. 11.44 TOP WALL
7. 4.03 BOTTOM WALL
14. 3.04
27. 2.54

113+00

-27. -2.93
-15. 0.77
-4. 5.00
0. 5.56 CL (BL)
6. 5.52 BOTTOM WALL
8. 11.47 TOP WALL
8. 3.27 BOTTOM WALL
15. 2.30
24. 2.58 ES=WE

176. 4.83 NA
82. 2.56

114+00

-26. -2.91 ES
-23. -2.07
-15. 0.89
-5. 5.07
0. 5.55 CL (BL)
6. 5.61 BOTTOM WALL
7. 11.43 TOP WALL
7. 3.28 BOTTOM WALL

13. 2.58
23. 2.56

115+00

-26. -2.44
-15. 0.58
-5. 4.75
0. 5.25 CL (BL)
6. 5.20 BOTTOM WALL
8. 11.41 TOP WALL
8. 3.09 BOTTOM WALL
15. 2.46
22. 2.44 ES=WE

176. 5.69 NA
78. 2.11

116+00

-25. -2.72 ES
-12. 1.07
-3. 4.98
0. 5.40 CL (BL)
6. 5.58 BOTTOM WALL
8. 11.42 TOP WALL
8. 2.89 BOTTOM WALL
13. 2.44
19. 2.11

117+00

-28. -2.46
-21. -1.22
-14. 1.18
-5. 5.59
0. 6.04 CL (BL)
6. 6.18 BOTTOM WALL
8. 11.43 TOP WALL
9. 3.98 BOTTOM WALL
13. 2.77
20. 2.11 ES=WE

145. 5.90 NA
50. 2.16

118+00

-28. -2.66 ES
-21. -1.44
-13. 1.63
-4. 5.47
0. 5.88 CL (BL)
6. 6.29 BOTTOM WALL
8. 11.35 TOP WALL
9. 3.51 BOTTOM WALL
17. 2.35
24. 2.16

119+00
-23. -0.97
-13. 2.00
-5. 5.39
0. 5.92 CL (BL)
6. 6.02 BOTTOM WALL
8. 11.37 TOP WALL
9. 2.94 BOTTOM WALL
17. 2.11
25. 2.32 ES=WE

77. 7.07 NA
37. 2.68

119+62.82
-28. 4.02 ES
-17. 4.81
-6. 7.05
0. 7.12 CL (BL)
6. 6.59 BOTTOM WALL
8. 11.32 TOP WALL
8. 3.83 BOTTOM WALL
17. 2.79
28. 2.68

119+78.50
-30. 5.66
-19. 6.75 TOP CONCRETE
-12. 7.22 TOP CONCRETE
-5. 7.40 TOP CONCRETE
0. 7.41 CL (BL)
6. 7.20 BOTTOM WALL
8. 11.31 TOP WALL
8. 4.19 BOTTOM WALL
18. 2.62
30. 1.22 EJ

TO TIE IN:
32. 10.22 TBM JECA#3
0. 10.21 E=10.19

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D080894
 0. 1000.00 O94C079E.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B\L
 0. 1000.00 TBM JECA#14
 11663. 7.36 ELEV.=7.36
 491. 4.36 NA
 116. 1.92

89+00

-24. 1.92
 -19. 3.41
 -14. 4.68
 -10. 4.16
 -9. 5.86 TSP=ES
 -9. 5.97 TOP ROCKS
 -6. 7.21 TOP ROCKS
 -5. 11.15 TSP=ES
 -5. 5.74
 0. 5.50 CL (BL)
 4. 4.89
 11. 1.78
 16. -1.42
 19. -2.07 ES

90+00

-24. 2.17 ES=WE
 -21. 3.22
 -18. 4.11
 -10. 4.12
 -9. 6.01 TSP=ES
 -9. 5.78 TOP ROCKS
 -6. 6.76 TOP ROCKS
 -6. 11.14 TSP=ES
 -6. 5.41
 0. 4.98 CL (BL)
 3. 4.49
 9. 2.26
 15. -0.90
 18. -1.83

91+00

-25. 2.13
 -18. 3.99
 -9. 4.26
 -9. 6.03 TSP=ES
 -9. 6.13 TOP ROCKS
 -6. 6.51 TOP ROCKS
 -5. 11.07 TSP=ES
 -5. 4.80
 0. 4.50 CL (BL)

4. 3.97
11. 0.74
18. -1.72 ES

92+00

-24. 2.09 ES=WE
-18. 4.04
-10. 4.25
-10. 5.92 TSP=ES
-9. 6.21 TOP ROCKS
-6. 6.35 TOP ROCKS
-6. 11.06 TSP=ES
-5. 4.80
0. 4.53 CL (BL)
3. 3.84
9. 1.03
18. -2.45

246. 4.34 NA
149. 2.09

93+00

-23. 2.09
-17. 3.60
-10. 3.77
-9. 5.87 TSP=ES
-9. 5.76 TOP ROCKS
-6. 6.15 TOP ROCKS
-6. 11.04 TSP=ES
-5. 4.69
0. 4.53 CL (BL)
4. 3.54
11. 0.73
18. -2.04 ES

94+00

-28. 2.08 ES=WE
-20. 4.01
-11. 4.51
-10. 6.04 TSP=ES
-10. 6.07 TOP ROCKS
-7. 6.29 TOP ROCKS
-6. 10.99 TSP=ES
-6. 5.07
0. 4.73 CL (BL)
3. 4.02
9. 1.27
17. -1.70

95+00

-21. 2.19
-13. 3.93
-10. 4.28
-10. 5.95 TSP=ES
-9. 5.86 TOP ROCKS
-7. 6.12 TOP ROCKS
-8. 11.02 TSP=ES

-6. 4.84
0. 4.23 CL (BL)
3. 3.59
9. 1.12
16. -0.94 ES

96+00

-18. 2.23 ES=WE
-11. 3.48
-10. 5.93 TSP=ES
-10. 6.18 TOP ROCKS
-7. 6.71 TOP ROCKS
-7. 11.08 TSP=ES
-6. 4.64
-4. 4.56
0. 3.95 CL (BL)
2. 3.32
8. 1.38
16. -2.11

232. 3.96 NA
132. 2.09

97+00

-15. 2.09
-13. 4.43
-10. 6.18 TSP=ES
-10. 6.31 TOP ROCKS
-8. 6.09 TOP ROCKS
-8. 11.08 TSP=ES
-6. 4.84
-3. 4.59
0. 4.01 CL (BL)
7. 1.42
12. -1.21
16. -2.30 ES

98+00

-17. 2.23 ES=WE
-15. 3.51
-12. 3.69
-11. 5.80 TSP=ES
-11. 5.55 TOP ROCKS
-8. 5.97 TOP ROCKS
-8. 11.04 TSP=ES
-7. 4.54
-4. 4.45
0. 3.74 CL (BL)
7. 1.29
15. -2.19

99+00

-24. 2.22
-22. 3.03 TOP ROCKS
-15. 3.43 TOP ROCKS
-12. 5.08 TOP ROCKS
-11. 5.59 TSP=ES

-11. 5.66 TOP ROCKS
-8. 6.29 TOP ROCKS
-7. 10.99 TSP=ES
-7. 4.69
-2. 4.52
0. 4.20 CL (BL)
7. 2.02
16. -2.33 ES

99+69.22

-18. 2.16 ES=WE
-13. 5.55 TOP ROCKS
-12. 6.21 TSP=ES
-11. 5.74 TOP ROCKS
-9. 4.46 TOP ROCKS
-8. 10.96 TSP=ES
-8. 4.97
-4. 4.71
0. 4.04 CL (BL)
4. 2.21
11. -0.96
14. -1.64

99+70.31

-18. 2.17
-14. 4.39 TOP ROCKS
-12. 6.37 TSP=ES
-11. 6.36 TOP ROCKS
-8. 7.22 TOP ROCKS
-8. 10.95 TSP=ES
-7. 4.91
-3. 4.67
0. 4.14 CL (BL)
7. 1.36
15. -1.47 ES

99+74.76

-16. 2.19 ES=WE
-12. 3.90
-11. 6.43 TSP=ES
-10. 6.72 TOP ROCKS
-8. 7.12 TOP ROCKS
-7. 10.97 TSP=ES
-7. 4.96
-5. 5.02
0. 4.41 CL (BL)
7. 1.78
15. -1.49

99+91.07

-15. 2.67
-12. 4.05
-5. 5.02
-6. 6.61 TSP=ES
-6. 7.01 TOP ROCKS
-3. 7.05 TOP ROCKS
-3. 10.95 TSP=ES
-3. 6.03
0. 5.93 CL (BL)

9. 5.13
14. 3.88 ES

99+96.67
-14. 2.39 EJ
-9. 4.66
-7. 5.10 BOTTOM WALL
-6. 11.44 TOP WALL
-4. 6.39 BOTTOM WALL
0. 6.47 CL (BL)
4. 6.26
10. 5.70
14. 5.30

TO TIE IN:

59. 4.51 NA
268. -5.98 NA
129. -5.99 NA
166. 4.49 TBM#JECA15
0. 4.49 ELEV.=4.49

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D090894
 0. 1000.00 O94C079F.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B\L
 0. 1000.00 TBM JECA#15A
 10235. -6.02 ELEV.=-6.02
 138. -0.24

102+48.69

-29. -0.24
 -21. 0.13 TOP CONCRETE
 -15. 1.84
 -6. 3.47
 0. 4.67 CL (BL)
 5. 5.49 BOTTOM WALL
 5. 11.39 TOP WALL
 6. 11.39 TOP WALL
 6. 9.42 TOP WALL
 7. 9.40 TOP WALL
 8. 4.26 BOTTOM WALL
 10. 4.23 TOP CONCRETE
 15. 2.08 ES=WE

102+67.72

-41. -4.06 ES
 -24. -1.84
 -13. 0.70
 -3. 4.11
 0. 4.47 CL (BL)
 5. 5.22
 6. 12.30 TSP=ES
 6. 6.07 TSP=ES
 6. 3.95
 9. 3.71
 9. 2.19

 70. 3.55 NA
 34. -4.04

103+00

-23. -4.04
 -17. -1.97
 -9. 1.80
 -2. 3.76
 0. 4.03 CL (BL)
 5. 4.18
 5. 12.50 TSP=ES
 6. 6.56 TSP=ES
 6. 4.65

13. 3.78
18. 2.03 ES=WE

94. 3.37 NA
24. 2.17

104+00
-26. -4.43 ES
-18. -1.63
-11. 1.23
-3. 3.55
0. 3.80 CL (BL)
4. 3.82
4. 12.55 TSP=ES
6. 5.54 TSP=ES
6. 4.52
11. 5.03
19. 2.17

114. 3.79 NA
25. -3.97

105+00
-24. -3.97
-16. -1.44
-7. 2.10
-2. 3.60
0. 3.86 CL (BL)
4. 3.86
4. 12.49 TSP=ES
5. 5.79 TSP=ES
5. 4.44
13. 5.14
19. 3.26
22. 2.00 ES=WE

109. 3.92 NA
26. 2.14

106+00
-24. -4.37 ES
-21. -4.03
-16. -1.17
-10. 1.52
-3. 3.92
0. 4.34 CL (BL)
4. 4.43
4. 12.50 TSP=ES
6. 5.57 TSP=ES
7. 4.78
13. 5.52
20. 2.14

112. 3.42 NA
22. -4.31

107+00
-23. -4.31
-15. -1.10
-8. 2.23
0. 4.47 CL (BL)
5. 4.59
5. 12.58 TSP=ES
7. 3.60
9. 4.99
14. 4.58
18. 3.62
20. 2.52 ES=WE

111. 3.43 NA
26. 2.39

108+00
-23. -4.55 ES
-20. -4.18
-15. -1.40
-9. 1.31
-2. 3.65
0. 3.97 CL (BL)
5. 4.18
5. 12.52 TSP=ES
6. 2.84
8. 4.87 TOP ROCKS
14. 5.14 TOP ROCKS
19. 2.78
20. 4.75 TOP CONCRETE
21. 4.07 TOP CONCRETE
22. 2.39

110. 2.62 NA
24. -4.83

109+00
-28. -4.83
-20. -4.06
-10. 0.35
-2. 2.95
0. 3.30 CL (BL)
6. 3.20
6. 12.57 TSP=ES
7. 2.37
9. 5.01 TOP ROCKS
15. 4.46 TOP ROCKS
18. 2.39 ES=WE

113. 3.08 NA
26. 2.27

110+00

-26. -4.62 ES
-20. -3.71
-11. -0.18
-3. 3.32
0. 3.77 CL (BL)
4. 3.97
4. 12.21 TSP=ES
5. 2.11
7. 3.39 TOP ROCKS
14. 4.25 TOP ROCKS
18. 2.27

113. 2.64 NA
24. -4.82

111+00

-24. -4.82
-19. -4.31
-10. 0.04
-2. 2.81
0. 3.10 CL (BL)
6. 2.92
6. 12.47 TSP=ES
7. 2.59
9. 4.16 TOP ROCKS
16. 4.08 TOP ROCKS
18. 2.21 ES=WE

111. 3.48 NA
23. 2.34

112+00

-21. -4.04 ES
-18. -3.51
-11. -0.47
-3. 3.00
0. 3.87 CL (BL)
5. 4.52
6. 12.19 TSP=ES
7. 3.75
7. 3.74
7. 4.72 TSP=ES
8. 4.15 TOP ROCKS
15. 4.19 TOP ROCKS
20. 2.34

109. 3.74 NA
20. -4.49

113+00
-20. -4.49
-18. -4.11
-13. -0.22
-3. 3.64
0. 4.04 CL (BL)
6. 4.05
6. 12.14 TSP=ES
7. 3.87
8. 4.01
8. 4.28 TSP=ES
9. 4.17 TOP ROCKS
15. 4.14
19. 2.47 ES=WE

114. 3.88 NA
25. 2.66

114+00
-19. -4.05 ES
-17. -3.75
-14. -1.26
-8. 1.40
-3. 3.79
0. 4.36 CL (BL)
6. 4.08
7. 12.11 TSP=ES
7. 4.44
8. 4.45
8. 4.76 TSP=ES
8. 4.51
14. 4.52
20. 2.66

113. 3.40 NA
33. -3.31

114+82.71
-18. -3.31
-9. 0.63
-3. 3.24
0. 3.83 CL (BL)
6. 4.16
6. 11.96 TSP=ES
7. 4.10
10. 3.99
10. 4.17 TSP=ES
11. 4.12
15. 4.69
18. 2.41 ES=WE

115+00
-18. -3.01 ES
-12. -0.65

-4. 3.08
0. 3.97 CL (BL)
6. 3.88
6. 12.03 TSP=ES
7. 4.63
8. 4.53
9. 4.73 TSP=ES
9. 4.48
15. 4.60
20. 2.47

110. 3.67 NA
20. -3.38

116+00
-18. -3.38
-9. 0.75
-3. 3.52
0. 4.01 CL (BL)
6. 3.96
7. 11.97 TSP=ES
7. 4.08
10. 4.57
16. 4.60
21. 2.21 EJ

TO TIE IN:

112. 3.85 NA
206. 4.39 TBM JECA#16
0. 4.39 ELEV.=4.38

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D090894
 0. 1000.00 O94C079F.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B\L
 0. 1000.00 TBM JECA#15A
 10235. -6.02 ELEV.=-6.02
 138. -0.24

102+48.69

-15. 2.08 ES=WE
 -10. 4.23 TOP CONCRETE
 -8. 4.26 BOTTOM WALL
 -7. 9.40 TOP WALL
 -6. 9.42 TOP WALL
 -6. 11.39 TOP WALL
 -5. 11.39 TOP WALL
 -5. 5.49 BOTTOM WALL
 0. 4.67 CL (BL)
 6. 3.47
 15. 1.84
 21. 0.13 TOP CONCRETE
 29. -0.24

102+67.72

-9. 2.19
 -9. 3.71
 -6. 3.95
 -6. 6.07 TSP=ES
 -6. 12.30 TSP=ES
 -5. 5.22
 0. 4.47 CL (BL)
 3. 4.11
 13. 0.70
 24. -1.84
 41. -4.06 ES

 70. 3.55 NA
 34. -4.04

103+00

-18. 2.03 ES=WE
 -13. 3.78
 -6. 4.65
 -6. 6.56 TSP=ES
 -5. 12.50 TSP=ES
 -5. 4.18
 0. 4.03 CL (BL)
 2. 3.76
 9. 1.80

17. -1.97
23. -4.04

94. 3.37 NA
24. 2.17

104+00
-19. 2.17
-11. 5.03
-6. 4.52
-6. 5.54 TSP=ES
-4. 12.55 TSP=ES
-4. 3.82
0. 3.80 CL (BL)
3. 3.55
11. 1.23
18. -1.63
26. -4.43 ES

114. 3.79 NA
25. -3.97

105+00
-22. 2.00 ES=WE
-19. 3.26
-13. 5.14
-5. 4.44
-5. 5.79 TSP=ES
-4. 12.49 TSP=ES
-4. 3.86
0. 3.86 CL (BL)
2. 3.60
7. 2.10
16. -1.44
24. -3.97

109. 3.92 NA
26. 2.14

106+00
-20. 2.14
-13. 5.52
-7. 4.78
-6. 5.57 TSP=ES
-4. 12.50 TSP=ES
-4. 4.43
0. 4.34 CL (BL)
3. 3.92
10. 1.52
16. -1.17
21. -4.03
24. -4.37 ES

112. 3.42 NA
22. -4.31

107+00
-20. 2.52 ES=WE
-18. 3.62
-14. 4.58
-9. 4.99
-7. 3.60
-5. 12.58 TSP=ES
-5. 4.59
0. 4.47 CL (BL)
8. 2.23
15. -1.10
23. -4.31

111. 3.43 NA
26. 2.39

108+00
-22. 2.39
-21. 4.07 TOP CONCRETE
-20. 4.75 TOP CONCRETE
-19. 2.78
-14. 5.14 TOP ROCKS
-8. 4.87 TOP ROCKS
-6. 2.84
-5. 12.52 TSP=ES
-5. 4.18
0. 3.97 CL (BL)
2. 3.65
9. 1.31
15. -1.40
20. -4.18
23. -4.55 ES

110. 2.62 NA
24. -4.83

109+00
-18. 2.39 ES=WE
-15. 4.46 TOP ROCKS
-9. 5.01 TOP ROCKS
-7. 2.37
-6. 12.57 TSP=ES
-6. 3.20
0. 3.30 CL (BL)
2. 2.95
10. 0.35
20. -4.06
28. -4.83

113. 3.08 NA
26. 2.27

110+00
-18. 2.27
-14. 4.25 TOP ROCKS
-7. 3.39 TOP ROCKS
-5. 2.11
-4. 12.21 TSP=ES
-4. 3.97
0. 3.77 CL (BL)
3. 3.32
11. -0.18
20. -3.71
26. -4.62 ES

113. 2.64 NA
24. -4.82

111+00
-18. 2.21 ES=WE
-16. 4.08 TOP ROCKS
-9. 4.16 TOP ROCKS
-7. 2.59
-6. 12.47 TSP=ES
-6. 2.92
0. 3.10 CL (BL)
2. 2.81
10. 0.04
19. -4.31
24. -4.82

111. 3.48 NA
23. 2.34

112+00
-20. 2.34
-15. 4.19 TOP ROCKS
-8. 4.15 TOP ROCKS
-7. 4.72 TSP=ES
-7. 3.74
-7. 3.75
-6. 12.19 TSP=ES
-5. 4.52
0. 3.87 CL (BL)
3. 3.00
11. -0.47
18. -3.51
21. -4.04 ES

109. 3.74 NA
20. -4.49

113+00

-19.	2.47	ES=WE
-15.	4.14	
-9.	4.17	TOP ROCKS
-8.	4.28	TSP=ES
-8.	4.01	
-7.	3.87	
-6.	12.14	TSP=ES
-6.	4.05	
0.	4.04	CL (BL)
3.	3.64	
13.	-0.22	
18.	-4.11	
20.	-4.49	

114.	3.88	NA
25.	2.66	

114+00

-20.	2.66	
-14.	4.52	
-8.	4.51	
-8.	4.76	TSP=ES
-8.	4.45	
-7.	4.44	
-7.	12.11	TSP=ES
-6.	4.08	
0.	4.36	CL (BL)
3.	3.79	
8.	1.40	
14.	-1.26	
17.	-3.75	
19.	-4.05	ES

113.	3.40	NA
33.	-3.31	

114+82.71

-18.	2.41	ES=WE
-15.	4.69	
-11.	4.12	
-10.	4.17	TSP=ES
-10.	3.99	
-7.	4.10	
-6.	11.96	TSP=ES
-6.	4.16	
0.	3.83	CL (BL)
3.	3.24	
9.	0.63	
18.	-3.31	

115+00

-20.	2.47	
-15.	4.60	

-9. 4.48
-9. 4.73 TSP=ES
-8. 4.53
-7. 4.63
-6. 12.03 TSP=ES
-6. 3.88
0. 3.97 CL (BL)
4. 3.08
12. -0.65
18. -3.01 ES

110. 3.67 NA
20. -3.38

116+00
-21. 2.21 EJ
-16. 4.60
-10. 4.57
-7. 4.08
-7. 11.97 TSP=ES
-6. 3.96
0. 4.01 CL (BL)
3. 3.52
9. 0.75
18. -3.38

TO TIE IN:

112. 3.85 NA
206. 4.39 TBM JECA#16
0. 4.39 ELEV.=4.38

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D100894
 0. 1000.00 O94C079G.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B\L
 0. 1000.00 TBM JECA#17
 9363. 3.83 ELEV.=3.82
 21. -4.21

117+00

-20. -4.21
 -18. -3.65
 -12. -0.38
 -3. 3.59
 0. 4.07 CL (BL)
 6. 4.18
 6. 11.98 TSP=ES
 8. 4.57
 15. 4.83
 18. 3.98
 19. 1.95 ES=WE

 116. 3.69 NA
 26. 2.21

118+00

-19. -4.44 ES
 -17. -3.65
 -11. -0.51
 -3. 3.26
 0. 4.15 CL (BL)
 6. 4.14
 7. 11.97 TSP=ES
 8. 4.11
 9. 4.26
 9. 4.80 TSP=ES
 10. 4.63
 17. 4.65
 19. 3.70
 21. 2.21

 130. 4.93 NA
 30. -3.25

119+00

-16. -3.25
 -7. 0.71
 -2. 3.49

0. 3.95 CL (BL)
4. 4.22
7. 4.33
7. 12.13 TSP=ES
8. 4.18
10. 4.61
18. 4.41
21. 3.75
22. 2.18 ES=WE

119+03.06

-18. -3.34 ES
-10. -0.65
-4. 2.89
0. 4.11 CL (BL)
6. 4.31
7. 12.10 TSP=ES
8. 4.53
17. 4.55
20. 3.54
21. 1.86

119+16.35

-21. -3.60
-14. -1.13
-8. 3.61
-3. 4.63
0. 4.75 CL (BL)
7. 4.87
7. 12.09 TSP=ES
8. 4.64
20. 4.58
24. 2.14 ES=WE

125. 6.45 NA
27. 2.18

120+18.82

-30. 4.47 ES
-15. 5.31
0. 6.07 CL (BL)
8. 6.25
18. 6.37 BOTTOM WALL
20. 11.24 TOP WALL
20. 4.83 BOTTOM WALL
22. 4.63
25. 2.18

120+49.00

-43. -2.52
-28. -1.42
-14. 2.28
-2. 5.95
0. 6.36 CL (BL)
6. 6.55 BOTTOM WALL
8. 11.29 TOP WALL
8. 6.32 BOTTOM WALL

11. 6.10
16. 4.89
24. 2.01 ES=WE

121+00

-43. -3.69 ES
-27. -1.72
-15. 1.83
-3. 5.69
0. 6.07 CL (BL)
5. 6.31 BOTTOM WALL
7. 11.26 TOP WALL
7. 6.19 BOTTOM WALL
9. 5.99
15. 4.41
21. 2.11

122+00

-44. -3.85
-30. -2.55
-15. 1.55
-3. 5.66
0. 6.23 CL (BL)
5. 6.50 BOTTOM WALL
7. 11.27 TOP WALL
8. 6.16 BOTTOM WALL
9. 6.02
17. 3.90
24. 2.15 ES=WE

123+00

-45. -3.76 ES
-29. -2.53
-16. 1.24
-3. 5.46
0. 5.90 CL (BL)
4. 6.08 BOTTOM WALL
6. 11.21 TOP WALL
7. 5.89 BOTTOM WALL
9. 5.75
16. 4.21
23. 2.18

124+00

-46. -3.75
-28. -2.13
-14. 1.94
-2. 5.66
0. 5.95 CL (BL)
4. 6.33 BOTTOM WALL
7. 11.21 TOP WALL
7. 5.40 BOTTOM WALL
10. 5.60
17. 3.83
21. 2.01 ES=WE

125+00

-45. -3.77 ES
-27. -2.38

-14.	1.52	
-2.	5.75	
0.	5.96	CL (BL)
4.	6.04	BOTTOM WALL
7.	11.14	TOP WALL
7.	6.15	BOTTOM WALL
9.	6.19	
16.	4.47	
20.	2.15	

198. 6.51 NA
102. -3.89

126+00

-46.	-3.89	
-27.	-1.97	
-14.	1.95	
-3.	5.45	
0.	5.84	CL (BL)
4.	5.99	BOTTOM WALL
6.	11.19	TOP WALL
7.	5.88	BOTTOM WALL
11.	5.72	
16.	4.01	
20.	1.92	ES=WE

126+65.00

-40.	-3.69	ES
-27.	-1.07	
-13.	2.41	
0.	5.82	CL (BL)
4.	5.66	BOTTOM WALL
6.	11.14	TOP WALL
6.	5.35	BOTTOM WALL
8.	5.08	
10.	3.52	
13.	1.86	

126+88.58

-52.	3.04	
-34.	4.05	
-22.	5.81	
-15.	6.23	TOP CONCRETE
-9.	6.50	TOP CONCRETE
-3.	6.82	TOP CONCRETE
0.	6.56	CL (BL)
8.	7.00	BOTTOM WALL
8.	10.56	TOP WALL
9.	10.55	TOP WALL
9.	6.64	BOTTOM WALL
10.	6.61	BOTTOM WALL
12.	11.21	EJ=TOP WALL

TO TIE IN:

52.	6.48	TBM LCE#18
0.	6.48	ELEV.=6.47

END OF RUN

RED.
 DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D100894
 0. 1000.00 O94C079G.LAA
 0. 1000.00 J. GREMILLION
 0. 1000.00 LONDON AVE. OUTFALL CANAL
 0. 1000.00 LONDON CANAL EASTSIDE B\L
 0. 1000.00 TBM JECA#17
 9363. 3.83 ELEV.=3.82
 21. -4.21

117+00

-19. 1.95 ES=WE
 -18. 3.98
 -15. 4.83
 -8. 4.57
 -6. 11.98 TSP=ES
 -6. 4.18
 0. 4.07 CL (BL)
 3. 3.59
 12. -0.38
 18. -3.65
 20. -4.21

 116. 3.69 NA
 26. 2.21

118+00

-21. 2.21
 -19. 3.70
 -17. 4.65
 -10. 4.63
 -9. 4.80 TSP=ES
 -9. 4.26
 -8. 4.11
 -7. 11.97 TSP=ES
 -6. 4.14
 0. 4.15 CL (BL)
 3. 3.26
 11. -0.51
 17. -3.65
 19. -4.44 ES

 130. 4.93 NA
 30. -3.25

119+00

-22. 2.18 ES=WE
 -21. 3.75
 -18. 4.41

-10. 4.61
-8. 4.18
-7. 12.13 TSP=ES
-7. 4.33
-4. 4.22
0. 3.95 CL (BL)
2. 3.49
7. 0.71
16. -3.25

119+03.06

-21. 1.86
-20. 3.54
-17. 4.55
-8. 4.53
-7. 12.10 TSP=ES
-6. 4.31
0. 4.11 CL (BL)
4. 2.89
10. -0.65
18. -3.34 ES

119+16.35

-24. 2.14 ES=WE
-20. 4.58
-8. 4.64
-7. 12.09 TSP=ES
-7. 4.87
0. 4.75 CL (BL)
3. 4.63
8. 3.61
14. -1.13
21. -3.60

125. 6.45 NA
27. 2.18

120+18.82

-25. 2.18
-22. 4.63
-20. 4.83 BOTTOM WALL
-20. 11.24 TOP WALL
-18. 6.37 BOTTOM WALL
-8. 6.25
0. 6.07 CL (BL)
15. 5.31
30. 4.47 ES

120+49.00

-24. 2.01 ES=WE
-16. 4.89
-11. 6.10
-8. 6.32 BOTTOM WALL
-8. 11.29 TOP WALL
-6. 6.55 BOTTOM WALL
0. 6.36 CL (BL)
2. 5.95

14. 2.28
28. -1.42
43. -2.52

121+00

-21. 2.11
-15. 4.41
-9. 5.99
-7. 6.19 BOTTOM WALL
-7. 11.26 TOP WALL
-5. 6.31 BOTTOM WALL
0. 6.07 CL (BL)
3. 5.69
15. 1.83
27. -1.72
43. -3.69 ES

122+00

-24. 2.15 ES=WE
-17. 3.90
-9. 6.02
-8. 6.16 BOTTOM WALL
-7. 11.27 TOP WALL
-5. 6.50 BOTTOM WALL
0. 6.23 CL (BL)
3. 5.66
15. 1.55
30. -2.55
44. -3.85

123+00

-23. 2.18
-16. 4.21
-9. 5.75
-7. 5.89 BOTTOM WALL
-6. 11.21 TOP WALL
-4. 6.08 BOTTOM WALL
0. 5.90 CL (BL)
3. 5.46
16. 1.24
29. -2.53
45. -3.76 ES

124+00

-21. 2.01 ES=WE
-17. 3.83
-10. 5.60
-7. 5.40 BOTTOM WALL
-7. 11.21 TOP WALL
-4. 6.33 BOTTOM WALL
0. 5.95 CL (BL)
2. 5.66
14. 1.94
28. -2.13
46. -3.75

125+00

-20. 2.15
-16. 4.47

-9.	6.19	
-7.	6.15	BOTTOM WALL
-7.	11.14	TOP WALL
-4.	6.04	BOTTOM WALL
0.	5.96	CL (BL)
2.	5.75	
14.	1.52	
27.	-2.38	
45.	-3.77	ES

198.	6.51	NA
102.	-3.89	

126+00

-20.	1.92	ES=WE
-16.	4.01	
-11.	5.72	
-7.	5.88	BOTTOM WALL
-6.	11.19	TOP WALL
-4.	5.99	BOTTOM WALL
0.	5.84	CL (BL)
3.	5.45	
14.	1.95	
27.	-1.97	
46.	-3.89	

126+65.00

-13.	1.86	
-10.	3.52	
-8.	5.08	
-6.	5.35	BOTTOM WALL
-6.	11.14	TOP WALL
-4.	5.66	BOTTOM WALL
0.	5.82	CL (BL)
13.	2.41	
27.	-1.07	
40.	-3.69	ES

126+88.58

-12.	11.21	EJ=TOP WALL
-10.	6.61	BOTTOM WALL
-9.	6.64	BOTTOM WALL
-9.	10.55	TOP WALL
-8.	10.56	TOP WALL
-8.	7.00	BOTTOM WALL
0.	6.56	CL (BL)
3.	6.82	TOP CONCRETE
9.	6.50	TOP CONCRETE
15.	6.23	TOP CONCRETE
22.	5.81	
34.	4.05	
52.	3.04	

TO TIE IN:

52.	6.48	TBM LCE#18
0.	6.48	ELEV.=6.47

END OF RUN

RED.
DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D100894
0. 1000.00 O94C079H.LAA
0. 1000.00 J. GREMILLION
0. 1000.00 LONDON AVE. OUTFALL CANAL
0. 1000.00 LONDON CANAL EASTSIDE B\L
0. 1000.00 TBM JECA#14
11663. 7.36 ELEV.=7.36
278. -1.71

88+00

-19. -1.71
-10. 2.96
-3. 5.42
0. 5.78 CL (BL)
5. 6.13
5. 11.16 TSP=ES
6. 7.37 TOP ROCKS
8. 6.16 TOP ROCKS
9. 6.05 TSP=ES
10. 3.87
12. 3.81
20. 2.01 EJ

TO TIE IN:

RED.
DIST. / ELEV.

TO START & IDENTIFY JOB:

0. 1000.00 D100894
0. 1000.00 O94C079H.LAA
0. 1000.00 J. GREMILLION
0. 1000.00 LONDON AVE. OUTFALL CANAL
0. 1000.00 LONDON CANAL EASTSIDE B\L
0. 1000.00 TBM JECA#14
11663. 7.36 ELEV.=7.36
278. -1.71

88+00

-20. 2.01 EJ
-12. 3.81
-10. 3.87
-9. 6.05 TSP=ES
-8. 6.16 TOP ROCKS
-6. 7.37 TOP ROCKS
-5. 11.16 TSP=ES
-5. 6.13
0. 5.78 CL (BL)
3. 5.42
10. 2.96
19. -1.71

TO TIE IN:

279. 9.34 TBM JECA#6
0. 9.34 ELEV.=9.34

END OF RUN