

BIRKHOFF, HENDRICKS AND CONWAY, L.L.P.
CONSULTING ENGINEERS
DALLAS, TEXAS

Date: 11-Oct-02
Job Code: 2001180

CB&I Water (3)
 9550 Hickman Road
 Clive Iowa 50325

Attention: Mr. Jim McCombs

Re: City of Rockwall, Texas
 Springer Road Elevated Storage Tank

We are transmitting herewith two copies of the submittal data furnished by CB&I Water
 These copies have been reviewed and marked as follows:

No. Sheets	Dwg. Description	Explanation				
		No Exceptions Taken	Rejected	Make Corrections Noted	Revise and Resubmit	Submit Specified Items
K	Foundation Drawings F1-1 through F1-10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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CB&I Water

a division of CB&I Constructors, Inc.

9550 Hickman Road * Clive, IA 50325-5316 * (515)254-9228

DATE: October 8, 2002

TO: Birkhoff, Hendricks & Conway
7502 Greenville Ave, Suite 220
Dallas, TX 75231

ATTN: Paul Carline

DESCRIPTION: 2000 MG CET 97' DIA X 40'HR X 52' TWR

LOCATION: ROCKWALL, TX

CB&I CONTRACT: 137719 TRANSMITTAL: 2B

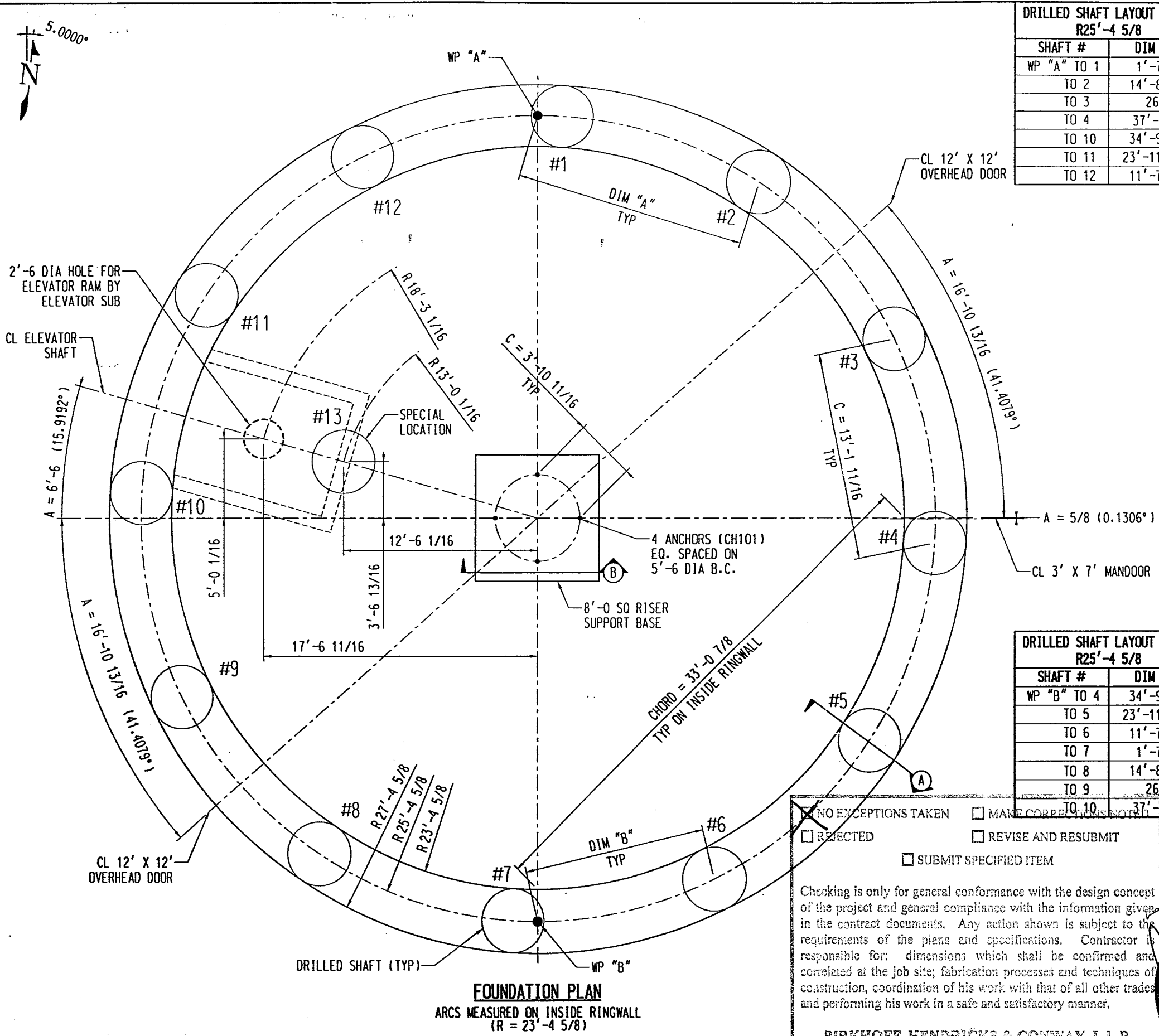
Enclosed are: Drawings For Record

Drawing #	Revision	Description	Copies
F1-1	0	FOUNDATION	4
F1-2	1	FOUNDATION	4
F1-3	0	FOUNDATION	4
F1-4	1	FOUNDATION	4
F1-5	1	FOUNDATION	4
F1-6	1	FOUNDATION	4
F1-7	1	FOUNDATION	4
F1-8	0	FOUNDATION	4
F1-9	0	FOUNDATION	4
F1-10	1	FOUNDATION	4

Remarks : 1. Drawings have been PE sealed.

Copies: D. SELLERS-CNR
J. MCCOMBS
G. SCHRODER

BY Jim McCombs
Email: JMcCombs@chicagobridge.com



DRILLED SHAFT LAYOUT TABLE R25'-4 5/8	
SHAFT #	DIM "A"
WP "A" TO 1	1'-7 1/8
TO 2	14'-8 1/16
TO 3	26'-9
TO 4	37'-0 1/8
TO 10	34'-9 1/16
TO 11	23'-11 15/16
TO 12	11'-7 3/16

- ### FOUNDATION NOTES
- DO NOT SCALE THIS DRAWING.
 - SUBSTANTIAL LOCATION AND ELEVATION MARKERS SHALL BE SET BY OWNER OR HIS REPRESENTATIVE.
 - CHECK DIMENSIONS. IF ANY DIMENSIONS DO NOT CHECK, DO NOT PROCEED UNTIL THEY ARE VERIFIED OR CORRECTED.
 - ALL CONCRETE WORK AND DETAILS NOT SHOWN ARE TO BE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS AND ACI 301.
 - ALL CONCRETE WORK SHALL BE PLACED WITHOUT CONSTRUCTION JOINTS EXCEPT WHERE SHOWN.
 - ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. MAXIMUM AGGREGATE SIZE TO BE 3/4". REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - REINFORCING BARS SHALL CONFORM TO ASTM A615 DEFORMED GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
 - THESE FOUNDATIONS ARE DESIGNED FOR BEARING ON 12 DRILLED SHAFTS HAVING A NET ALLOWABLE AXIAL CAPACITY OF 2,050,000 LBS (2,733,000 LBS WITH WIND). NO UPLIFT CAPACITY REQUIRED. REFER TO PROJECT PLANS AND SPECIFICATIONS AND GEOTECHNICAL REPORT. IF ABOVE CAPACITIES CANNOT BE ACHIEVED, NOTIFY CB&I CONSTRUCTORS, INC. BEFORE PROCEEDING.
 - CHAMFER ALL EXPOSED EDGES 1".
 - THE TOP OF THE RINGWALL IS TO BE FINISHED SMOOTH AND LEVEL. NO POINT IN THE CIRCUMFERENCE OF THE WALL SHALL VARY MORE THAN +/- 1/4" FROM THE ESTABLISHED ELEVATION. PLAN DIMENSIONS OF CONCRETE FOUNDATIONS SHALL NOT VARY MORE THAN +/- 1/2".
 - SECURE ANCHORS TO PREVENT MOVEMENT WHILE POURING CONCRETE.
 - FOUNDATION SUB-CONTRACTOR TO MARK NORTH-SOUTH AND EAST-WEST CENTERLINES ON TOP OUTSIDE EDGE OF RINGWALL WITH WATERPROOF MARKER.
 - COMPACT BACKFILL AND GRADE SITE TO CONTRACT SPECIFICATIONS.

DRILLED SHAFT LAYOUT TABLE R25'-4 5/8	
SHAFT #	DIM "B"
WP "B" TO 4	34'-9 1/16
TO 5	23'-11 15/16
TO 6	11'-7 3/16
TO 7	1'-7 1/8
TO 8	14'-8 1/16
TO 9	26'-9
TO 10	37'-0 1/8

FOUNDATION DESIGN LOADS	
H2O	17,678,860#
S.L. (15 PSF)	112,860#
D.L.	4,948,650#
W.S. (100 MPH)	267,770#
W.M.	32,056,170#
ADDITIONAL L.L.	581,221#
ADDITIONAL D.L.	213,120#

CONCRETE QUANTITIES	
RINGWALL	142 CY
DRILLED SHAFTS	241 CY

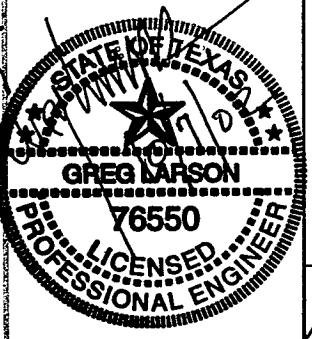
NOTE:
THE ABOVE QUANTITIES DO NOT INCLUDE MISCELLANEOUS CONCRETE ITEMS SUCH AS SLABS, VAULTS, SPLASH PADS, THRUST BLOCKS, ETC.

NO EXCEPTIONS TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEM

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of his work with that of all other trades and performing his work in a safe and satisfactory manner.

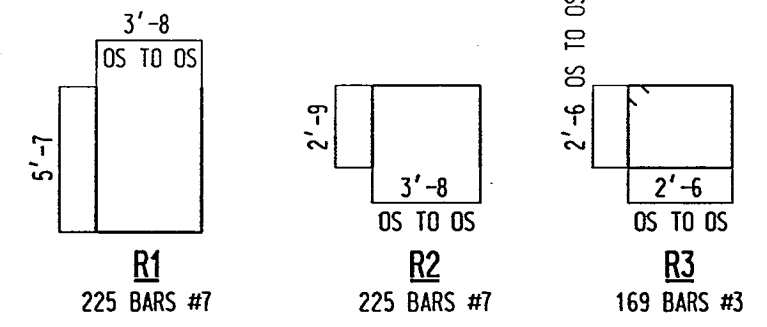
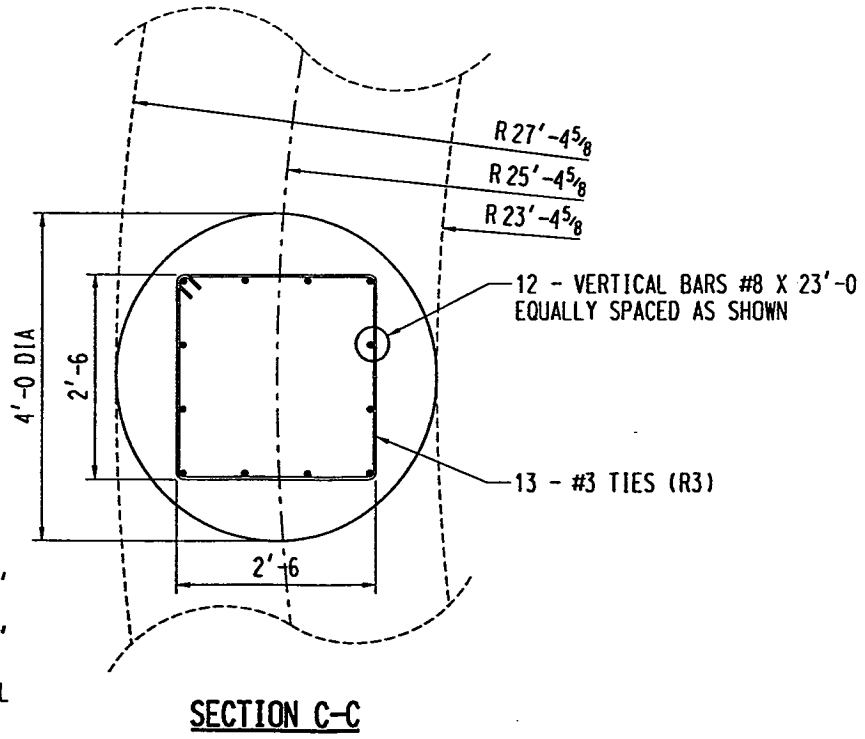
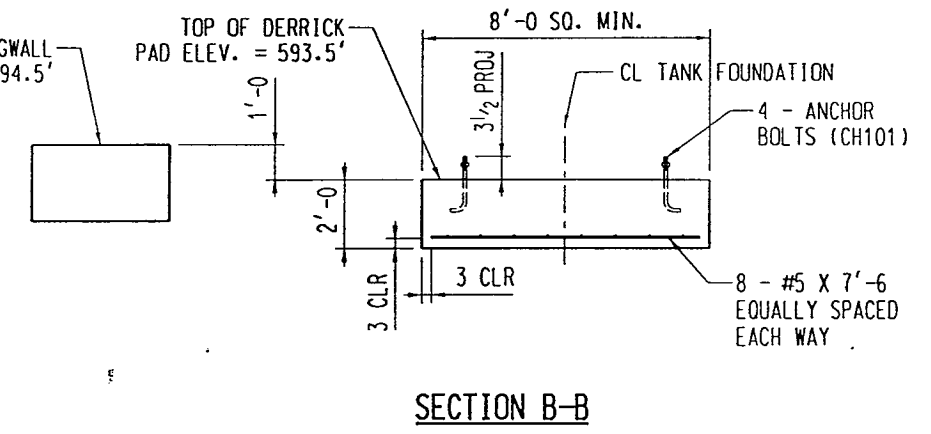
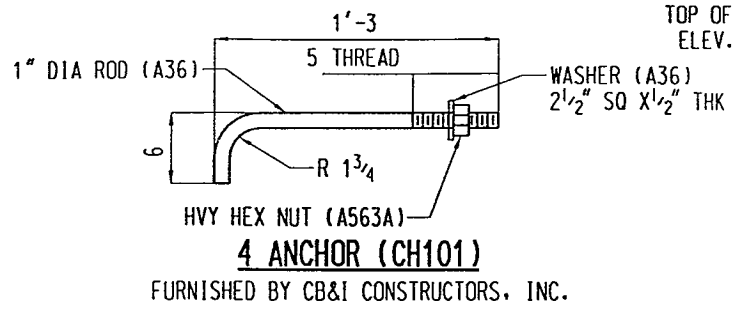
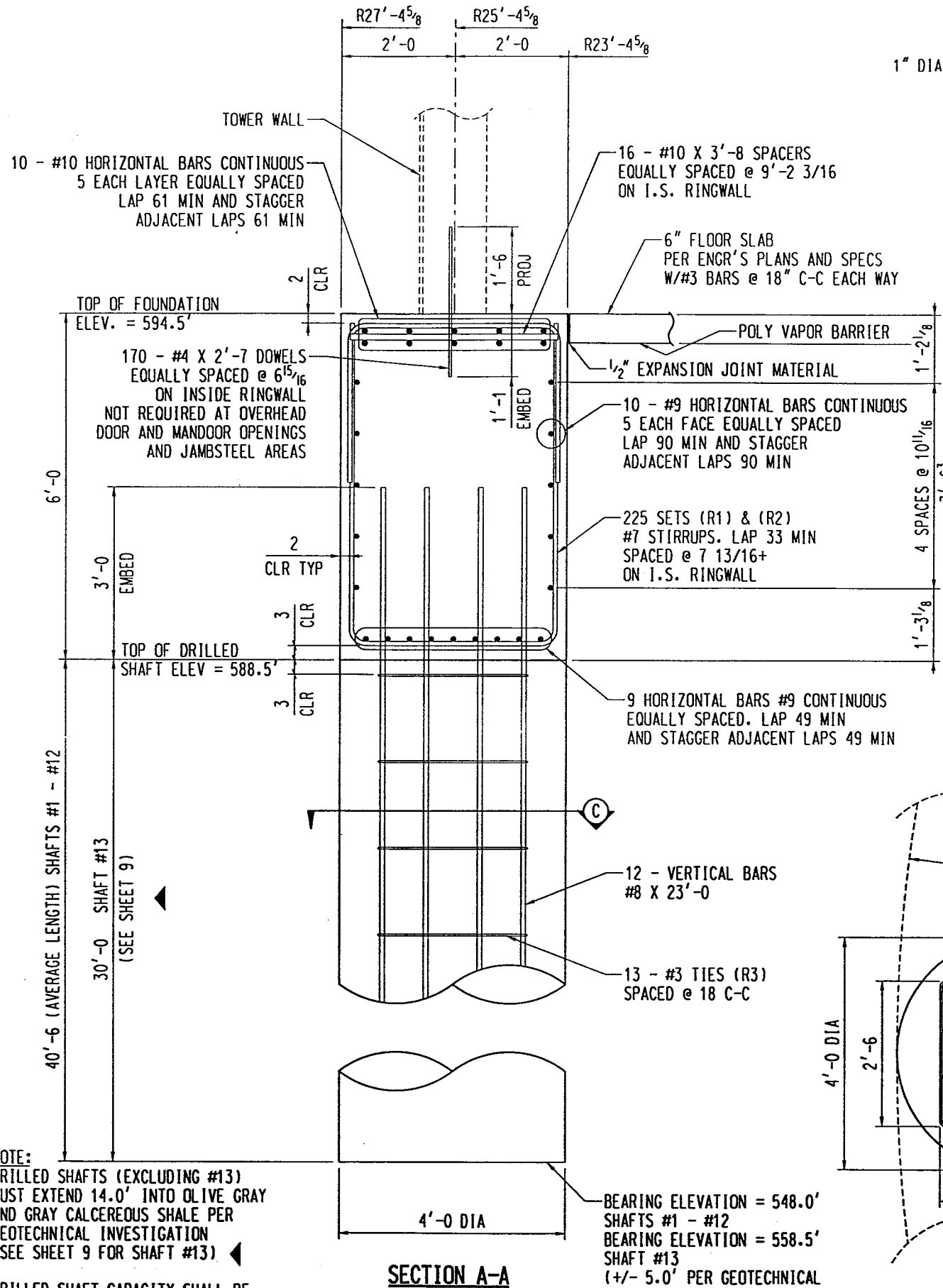
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS, DALLAS, TEXAS
 Date: 10/11/02 By: PAE

INDICATES CHANGE FROM PREVIOUS ISSUE



BY: Greg A. Schroder DATE: 9/20/02
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

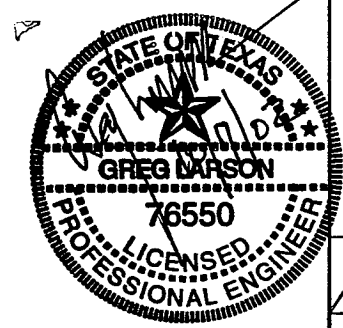
		SUPPLIER'S / PURCHASER'S NO.	
FOUNDATION PLAN SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX			
CUSTOMER'S NO. BY: <u>CDS</u> <u>CHKD</u> <u>JRM</u> DATE <u>20SEP02</u> <u>GREG SCHRODER - CLIVE</u> ENGINEERING ASSIGNED		CONTRACT NO. <u>137719</u> DWG: <u>F1</u> REV: <u>0</u> SHT: <u>1</u>	
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NOTE:
DRILLED SHAFTS (EXCLUDING #13)
MUST EXTEND 14.0' INTO OLIVE GRAY
AND GRAY CALCAREOUS SHALE PER
GEOTECHNICAL INVESTIGATION
(SEE SHEET 9 FOR SHAFT #13)

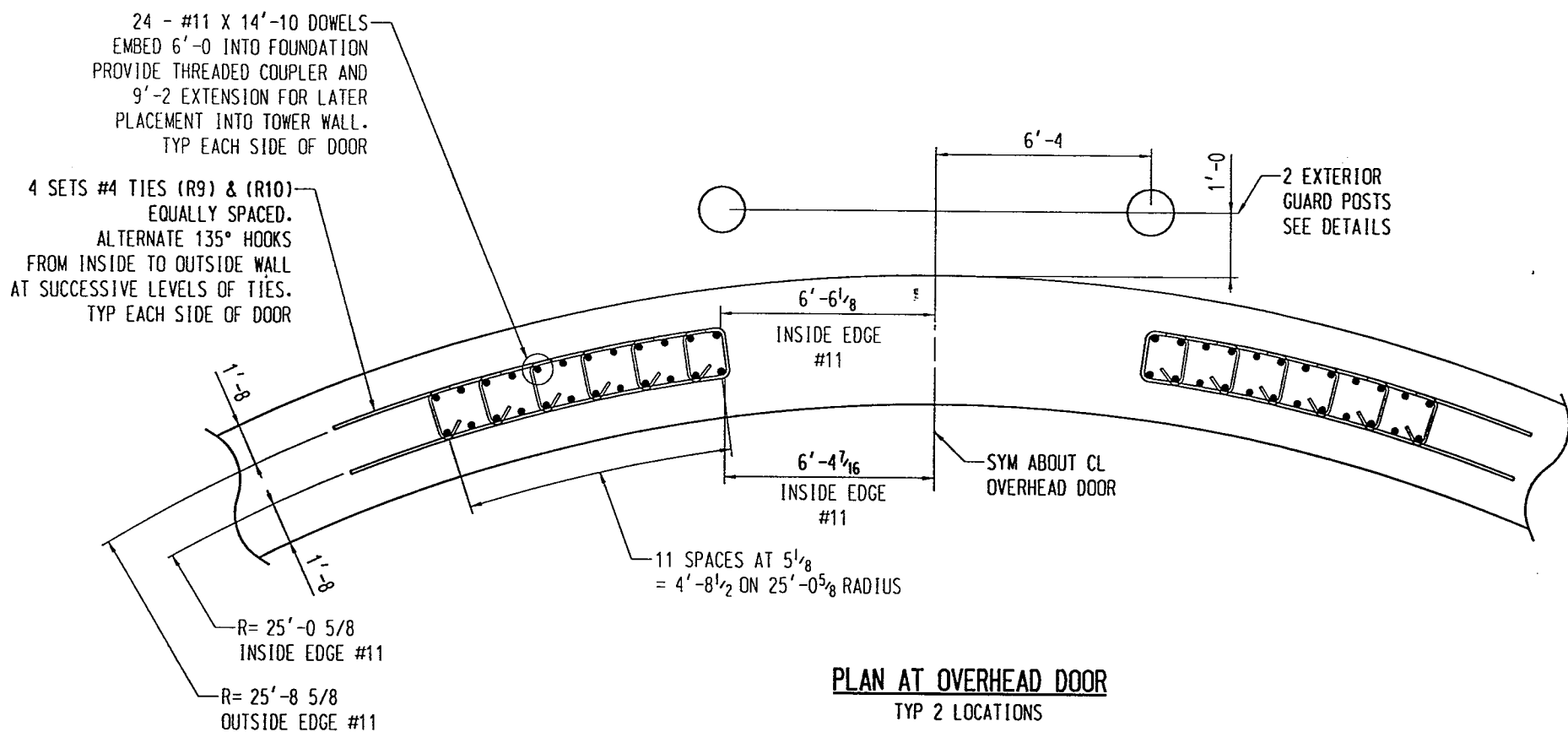
DRILLED SHAFT CAPACITY SHALL BE
APPROVED BY GEOTECHNICAL ENGINEER
PRIOR TO THE INSTALLATION OF THE
DRILLED SHAFT CONCRETE.

BY: *Greg A. Schroder* DATE: 10/9/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

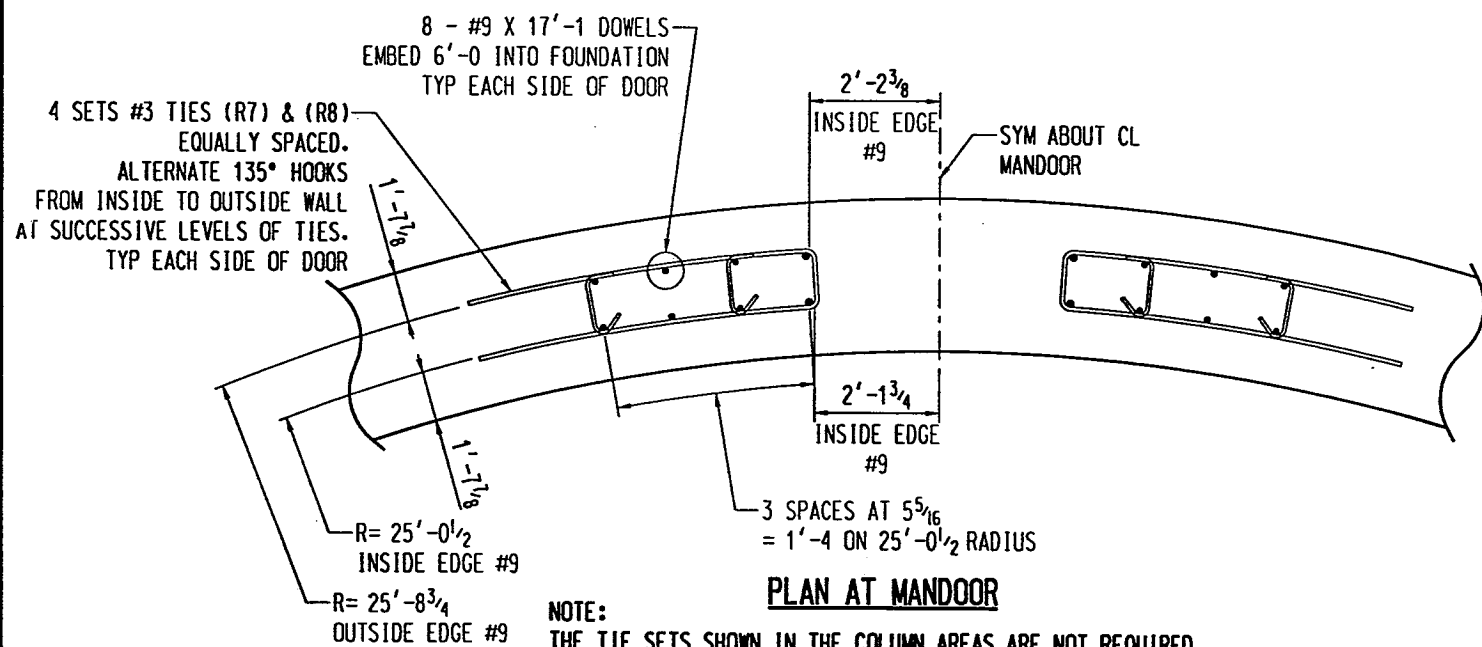


SUPPLIER'S / PURCHASER'S NO	
CB&I	
FOUNDATION DETAILS	
SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX	
CUSTOMER'S NO BY CDS CHD JRM DATE 20SEP02	CONTRACT NO 137719
BY GREG SCHRODER - CLIVE ENGINEERING ASSIGNED	DWG F1 SHT 2
REVISIONS	REV 1
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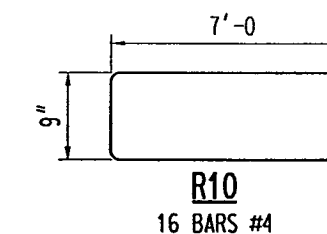
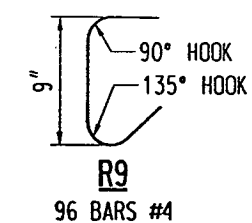
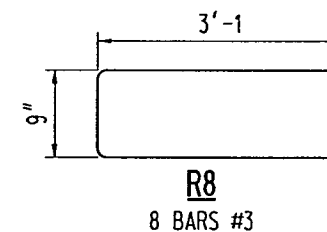
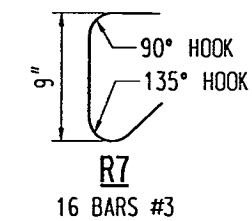
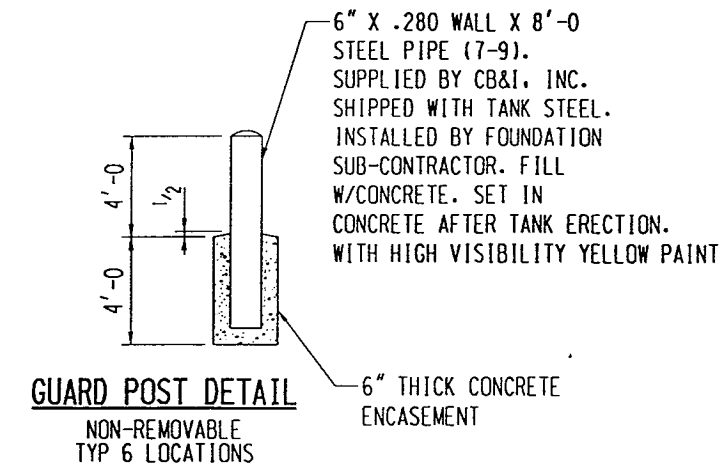
INDICATES CHANGE FROM PREVIOUS ISSUE



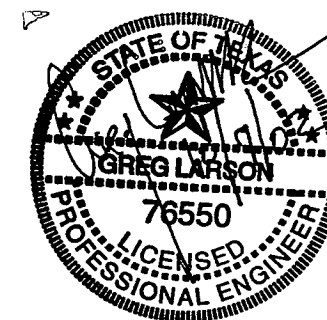
NOTE:
THE TIE SETS SHOWN IN THE COLUMN ARE NOT REQUIRED
FOR STRUCTURAL PURPOSES AND MAY BE OMITTED IF AN
ALTERNATIVE METHOD IS USED TO MAINTAIN CORRECT BAR LOCATION.
VERTICAL BARS IN COLUMN ARE MUST BE WITHIN ± 1/2" OF PLAN LOCATION.



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VERTICAL BARS IN COLUMN ARE MUST BE WITHIN ± 1/2" OF PLAN LOCATION.

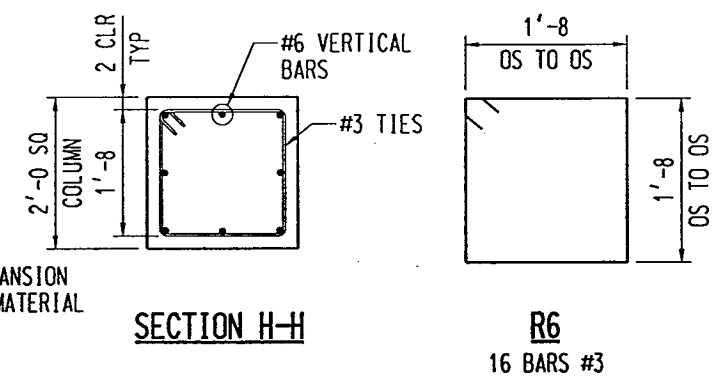
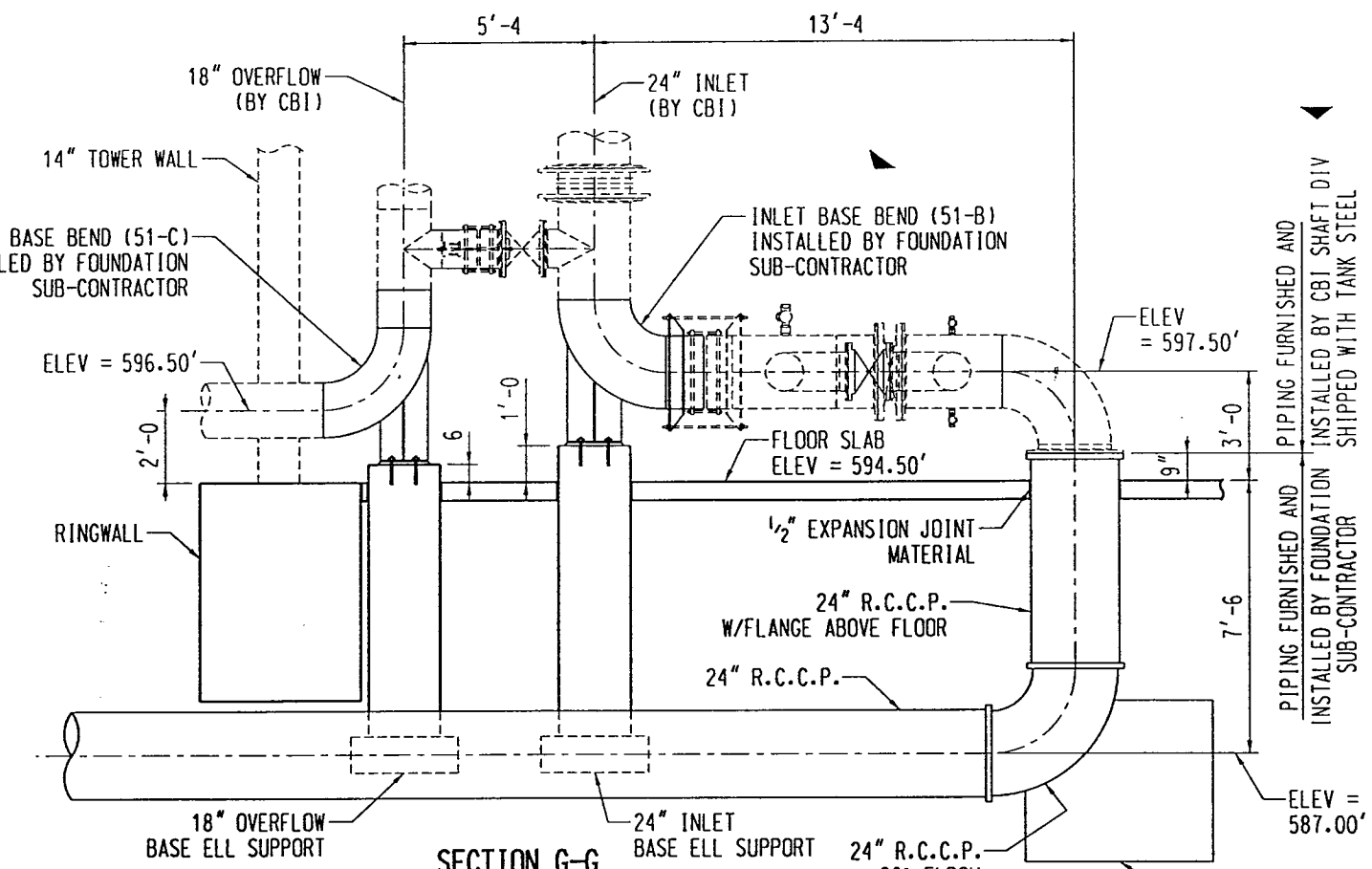
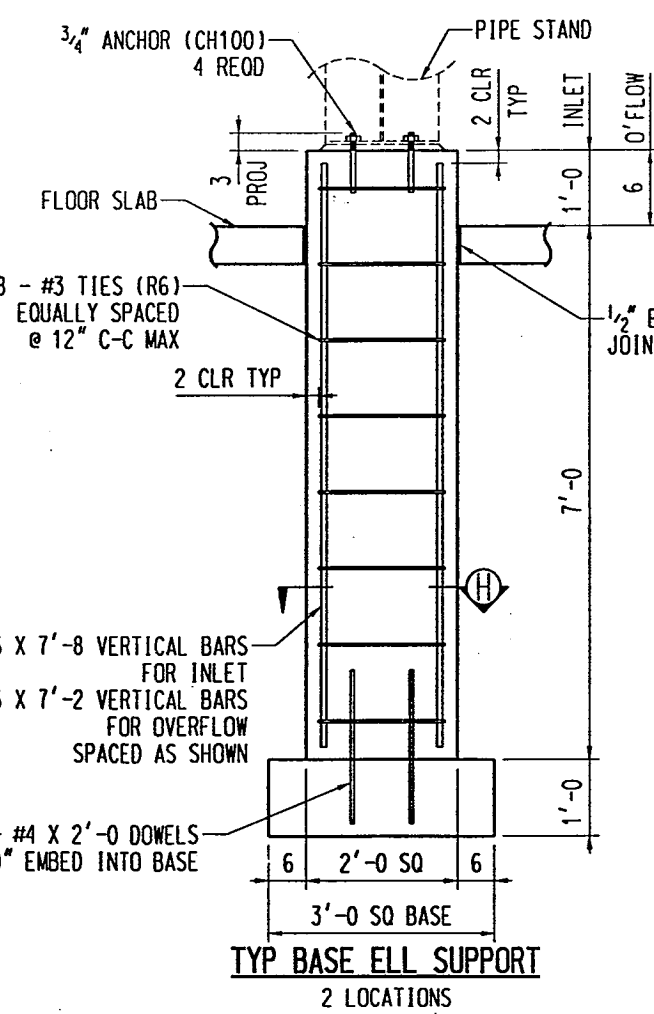
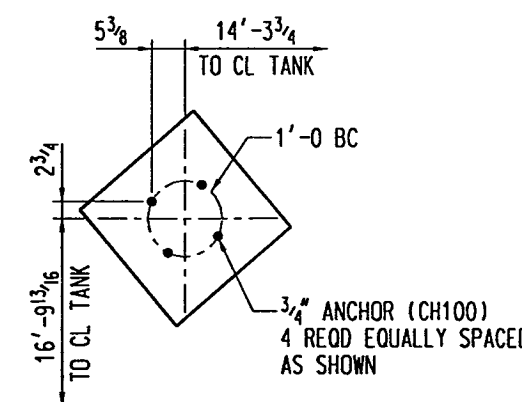
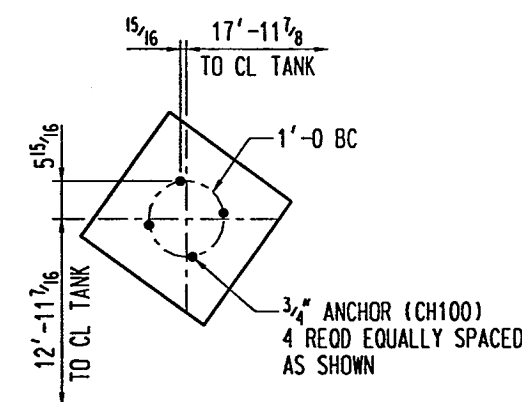
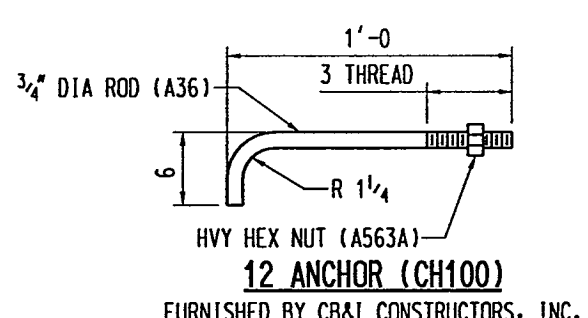
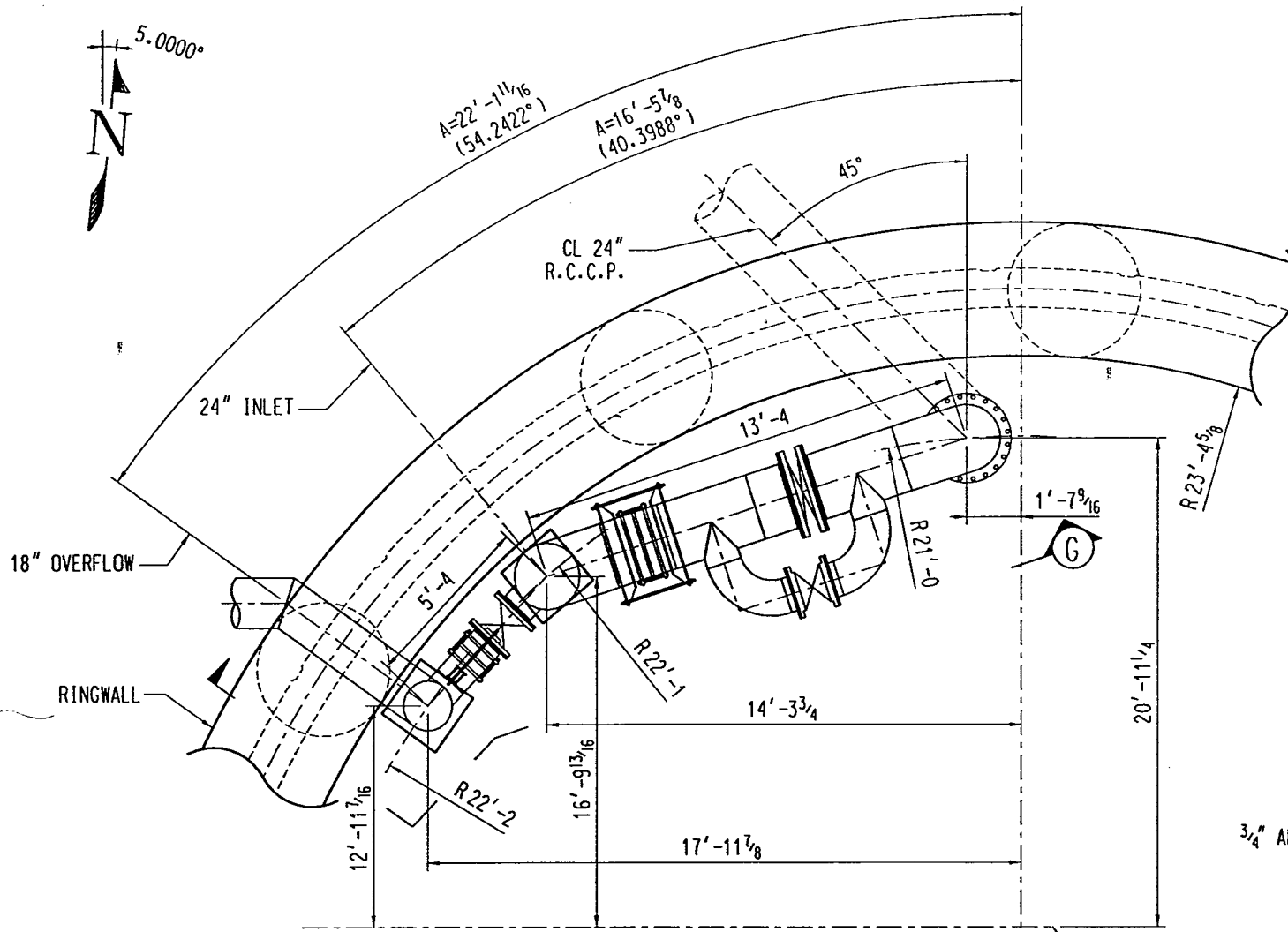


BY: *Gregory A. Adams* DATE: 9/20/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

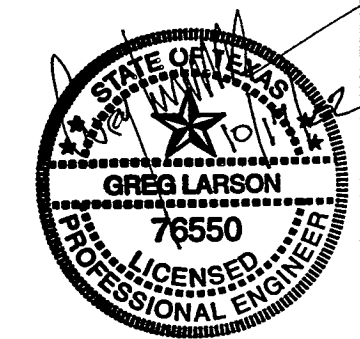


REMARKS		SUPPLIER'S / PURCHASER'S NO	
CBI			
DOOR DETAILS			
SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK			
2000 MG CET 97' DIA X 40' HR X 52' TWR			
ROCKWALL, TX			
CUSTOMER'S NO		CONTRACT NO	
BY JRM CHKD CDS DATE 20SEP02		137719	
GREG SCHRODER - CLIVE		DWG F1	REV 0
ENGINEERING ASSIGNED		SHT 3	
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BY	DATE	BY	DATE

INDICATES CHANGE FROM PREVIOUS ISSUE

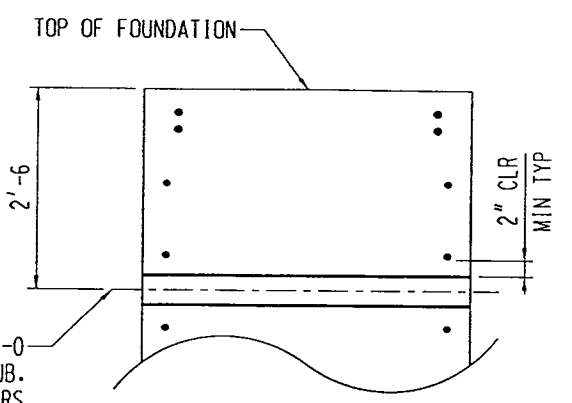
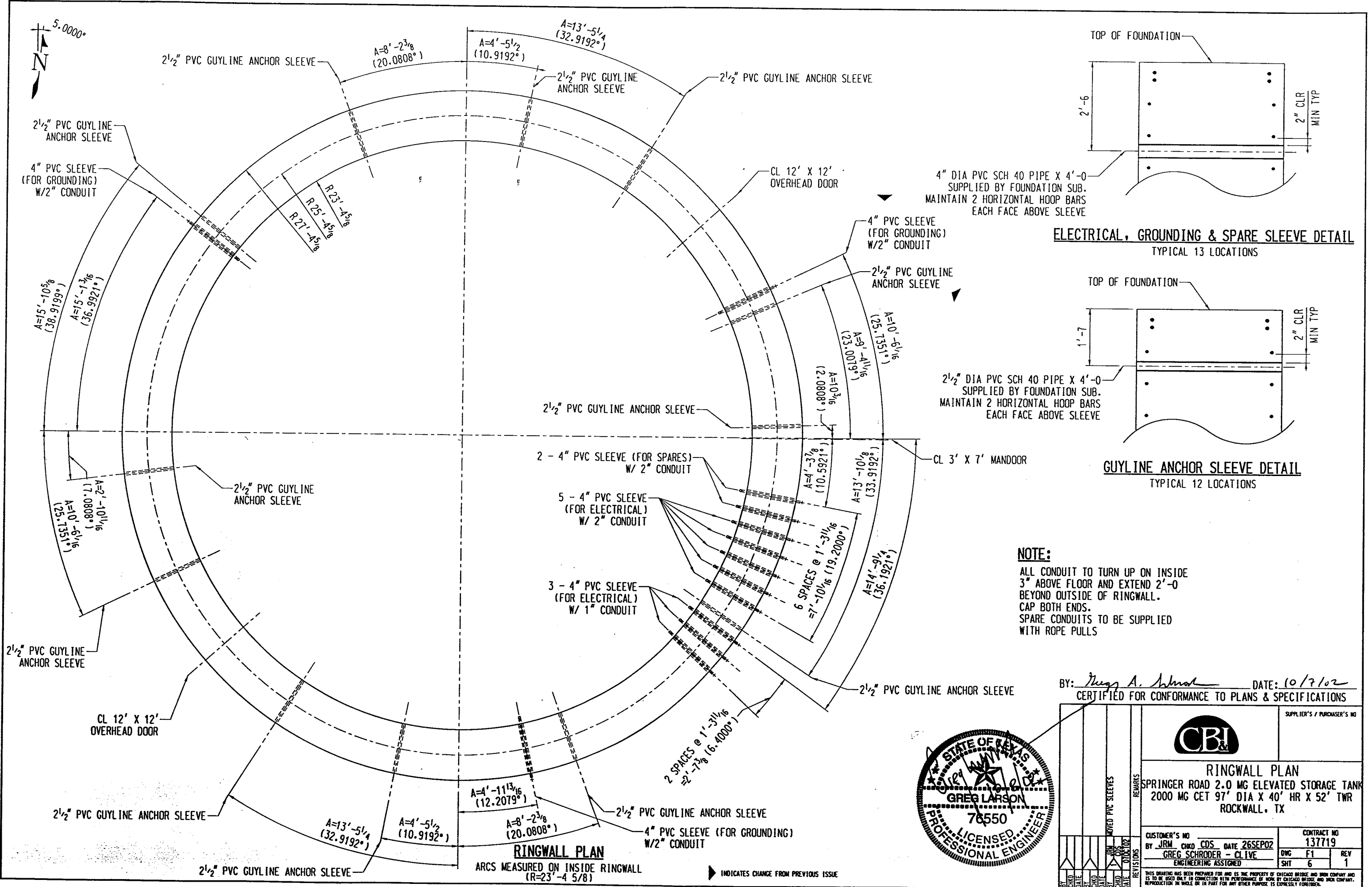


BY: *Greg A. Larson* DATE: 10/16/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

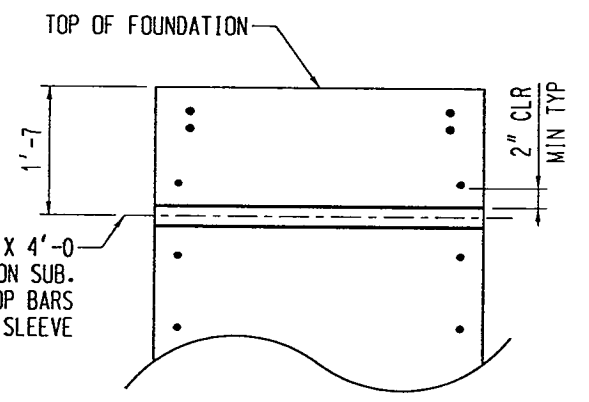


REVISIONS		REMARKS	
NO.	DATE	DESCRIPTION	REVISIONS
1	10/16/02	BASE BENDS INSTALLED BY FOUNDATION'S SUB-CONTRACTOR	
2	10/16/02	REV BASE ELL SUPPORT DEPTH	
CUSTOMER'S NO		CONTRACT NO	
BY JRM CHKD CDS DATE 26SEP02		137719	
GREG SCHRODER - CLIVE		DWG F1	REV 2
ENGINEERING ASSIGNED		SHT 5	
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▶ INDICATES CHANGE FROM PREVIOUS ISSUE



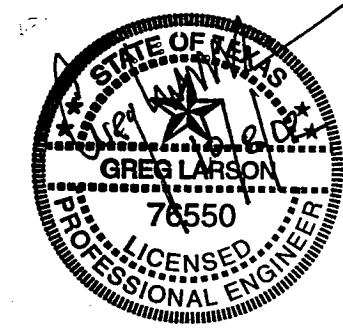
ELECTRICAL, GROUNDING & SPARE SLEEVE DETAIL
TYPICAL 13 LOCATIONS



GUYLINE ANCHOR SLEEVE DETAIL
TYPICAL 12 LOCATIONS

NOTE:
ALL CONDUIT TO TURN UP ON INSIDE
3" ABOVE FLOOR AND EXTEND 2'-0"
BEYOND OUTSIDE OF RINGWALL.
CAP BOTH ENDS.
SPARE CONDUITS TO BE SUPPLIED
WITH ROPE PULLS

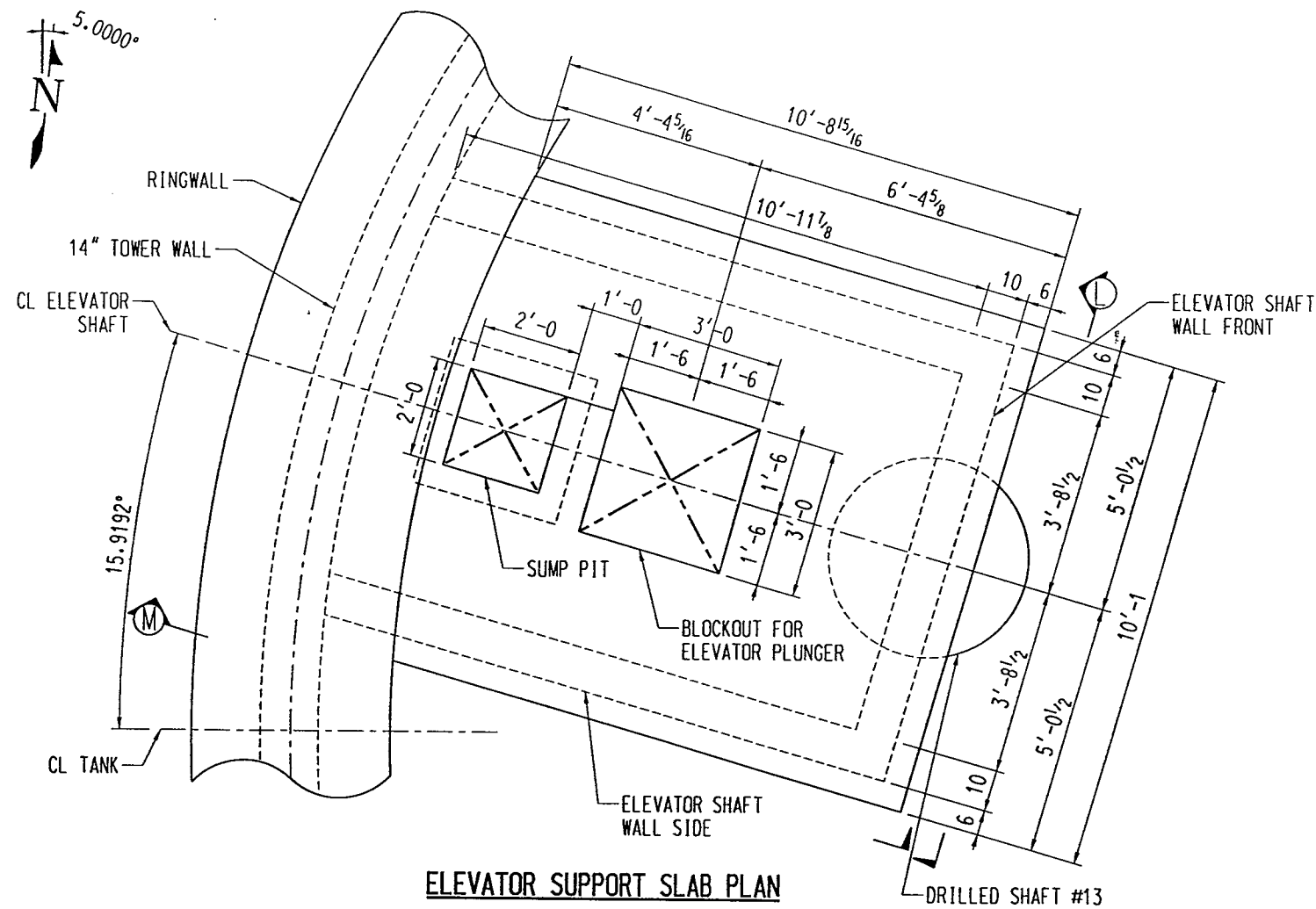
BY: *Greg A. Schrod* DATE: 10/7/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



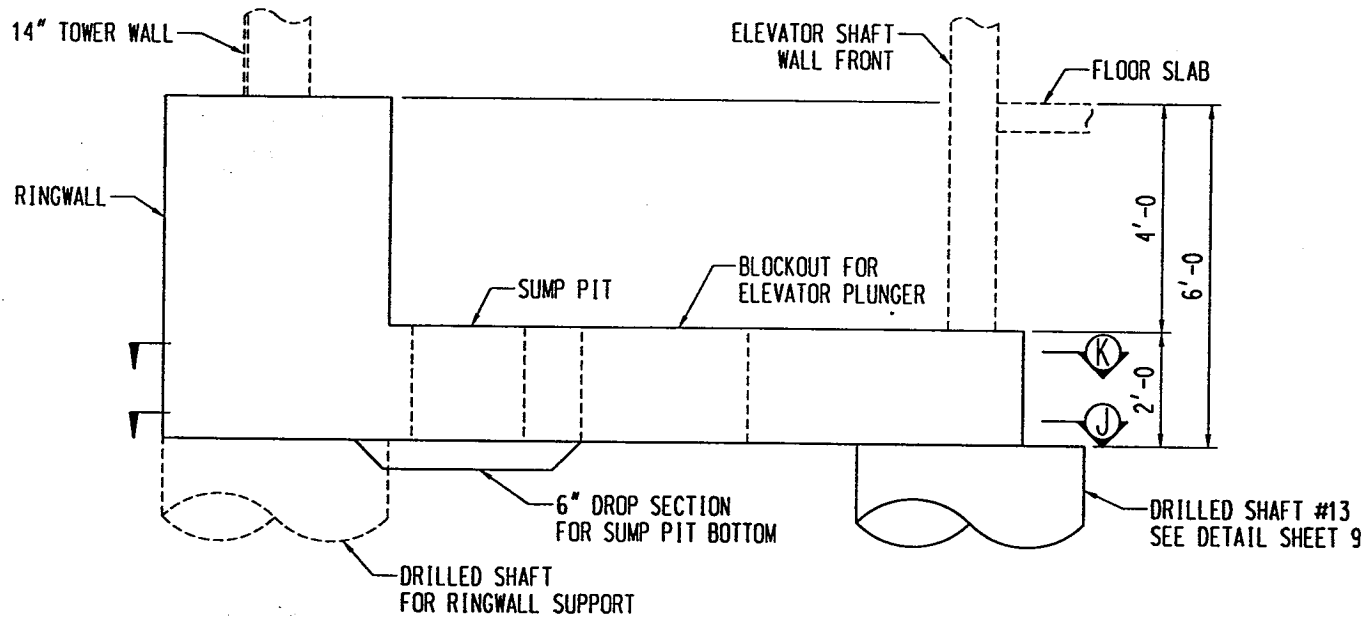
REVISIONS		REMARKS		SUPPLIER'S / PURCHASER'S NO	
BY	DATE	BY	DATE	CBI	
				RINGWALL PLAN	
				SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK	
				2000 MG CET 97' DIA X 40' HR X 52' TWR	
				ROCKWALL, TX	
CUSTOMER'S NO		CONTRACT NO			
BY JRM CHKD CDS DATE 26SEP02		137719			
GREG SCHRODER - CLIVE		DWG F1		REV	
ENGINEERING ASSIGNED		SHT 6		1	
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RINGWALL PLAN
ARCS MEASURED ON INSIDE RINGWALL
(R=23'-4 5/8)

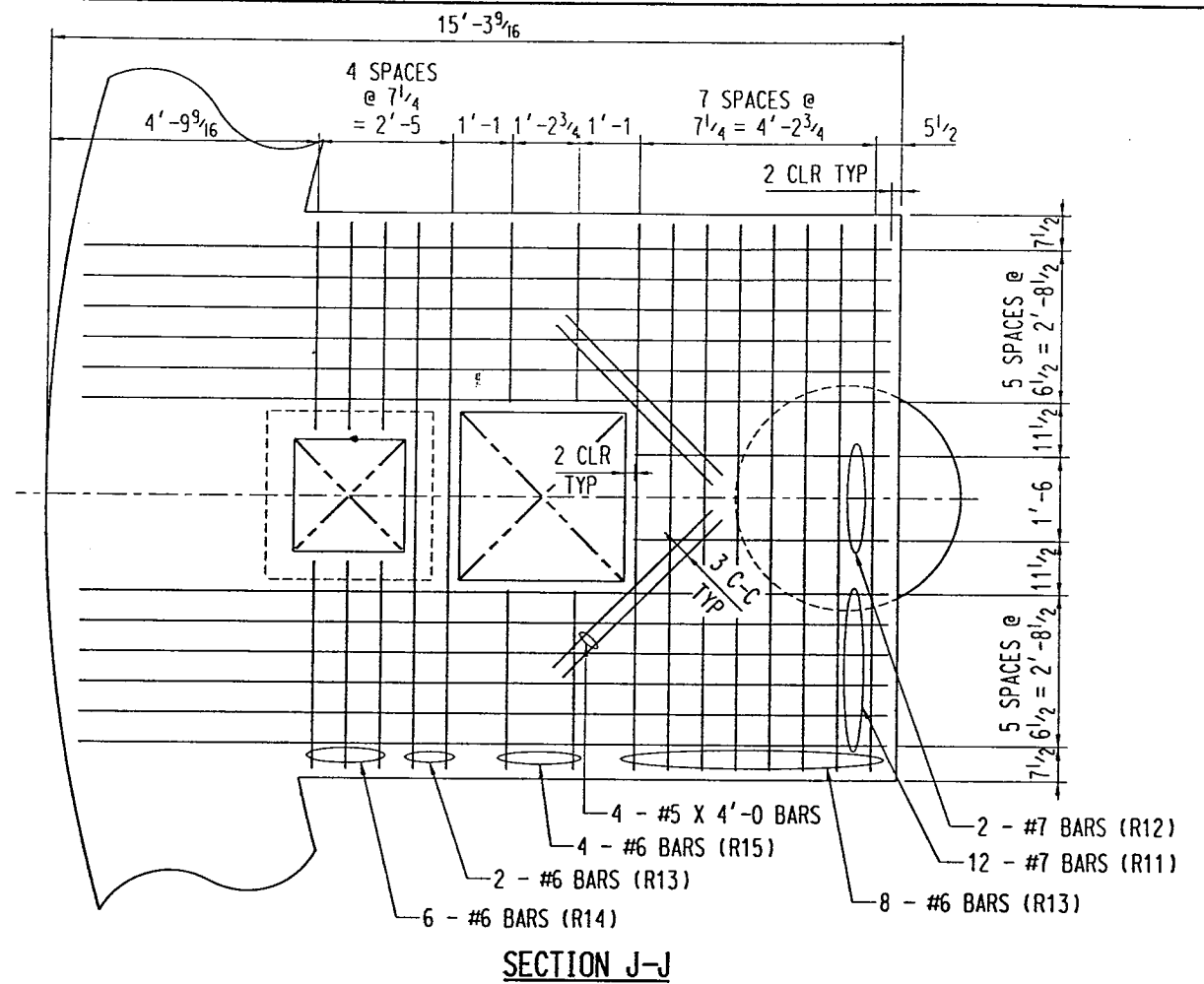
INDICATES CHANGE FROM PREVIOUS ISSUE



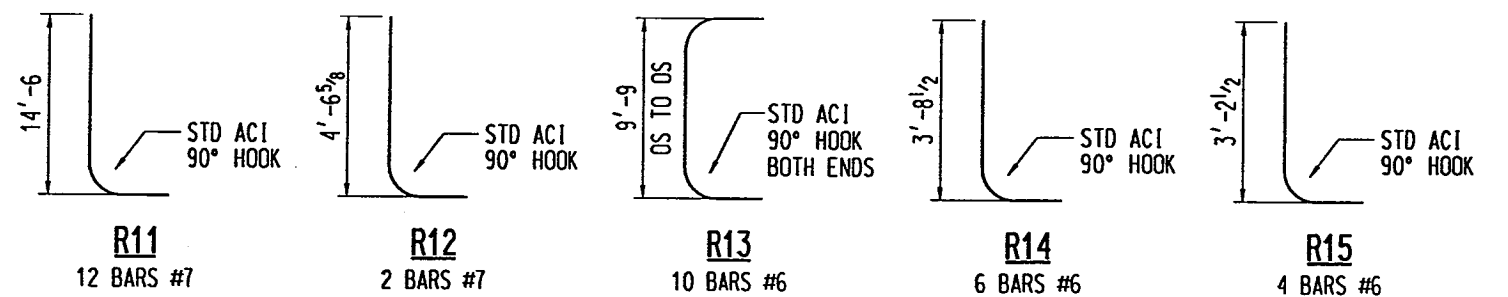
ELEVATOR SUPPORT SLAB PLAN



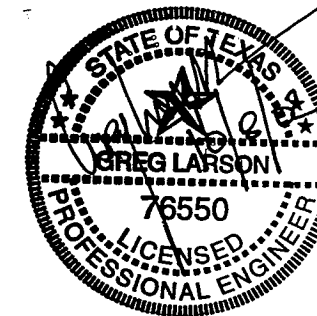
ELEVATOR SUPPORT SLAB ELEVATION



SECTION J-J

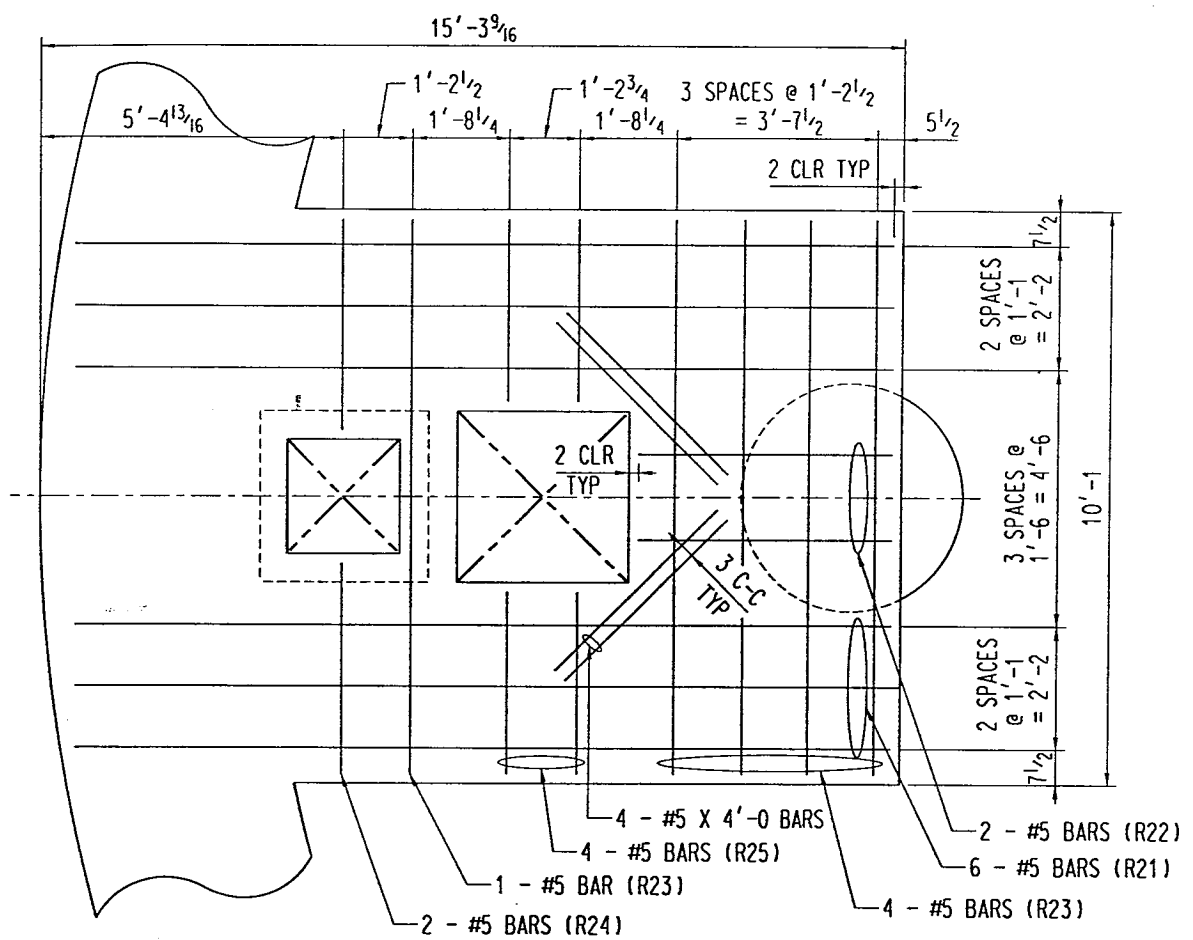


BY: *Greg A. Schrod* DATE: 9/30/02
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

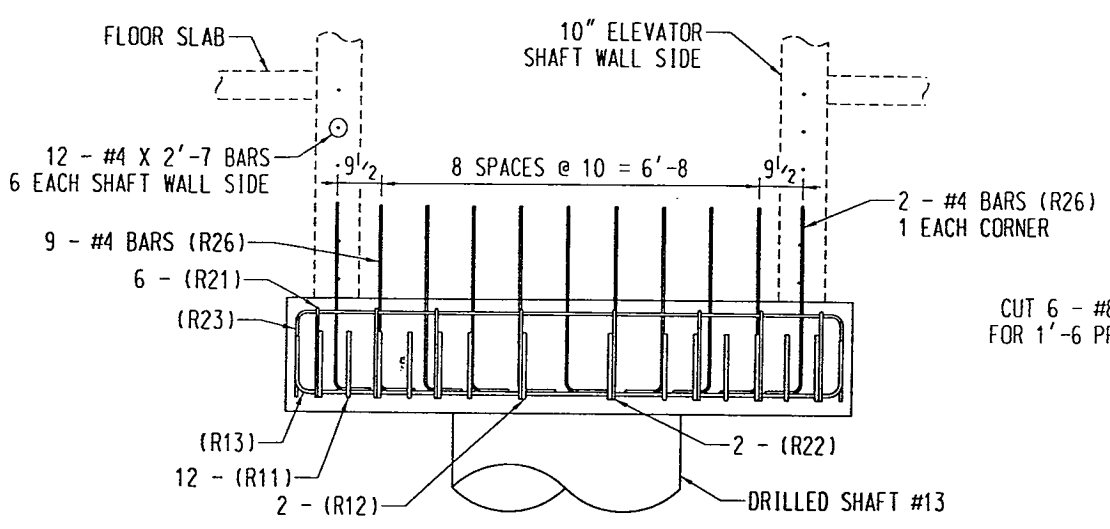


SUPPLIER'S / PURCHASER'S NO	
CBI	
ELEVATOR SUPPORT SLAB	
SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX	
CUSTOMER'S NO	CONTRACT NO
BY JRM CHKD CDS DATE 30SEP02	137719
GREG SCHROEDER - CLIVE ENGINEERING ASSIGNED	DWG E1 SHT 8 REV 0
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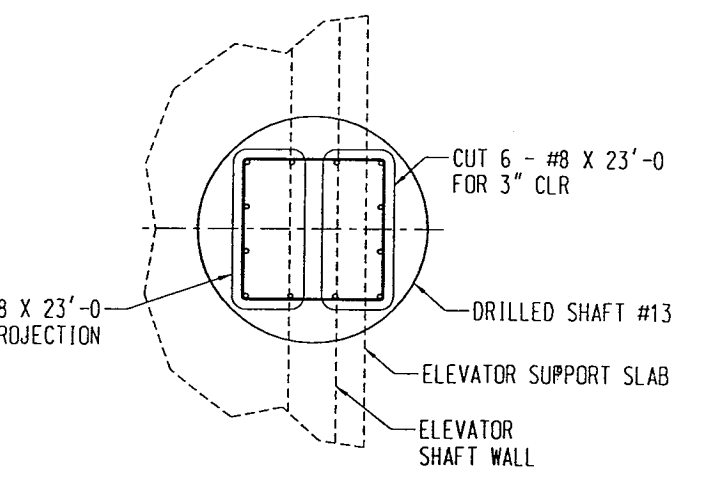
▶ INDICATES CHANGE FROM PREVIOUS ISSUE



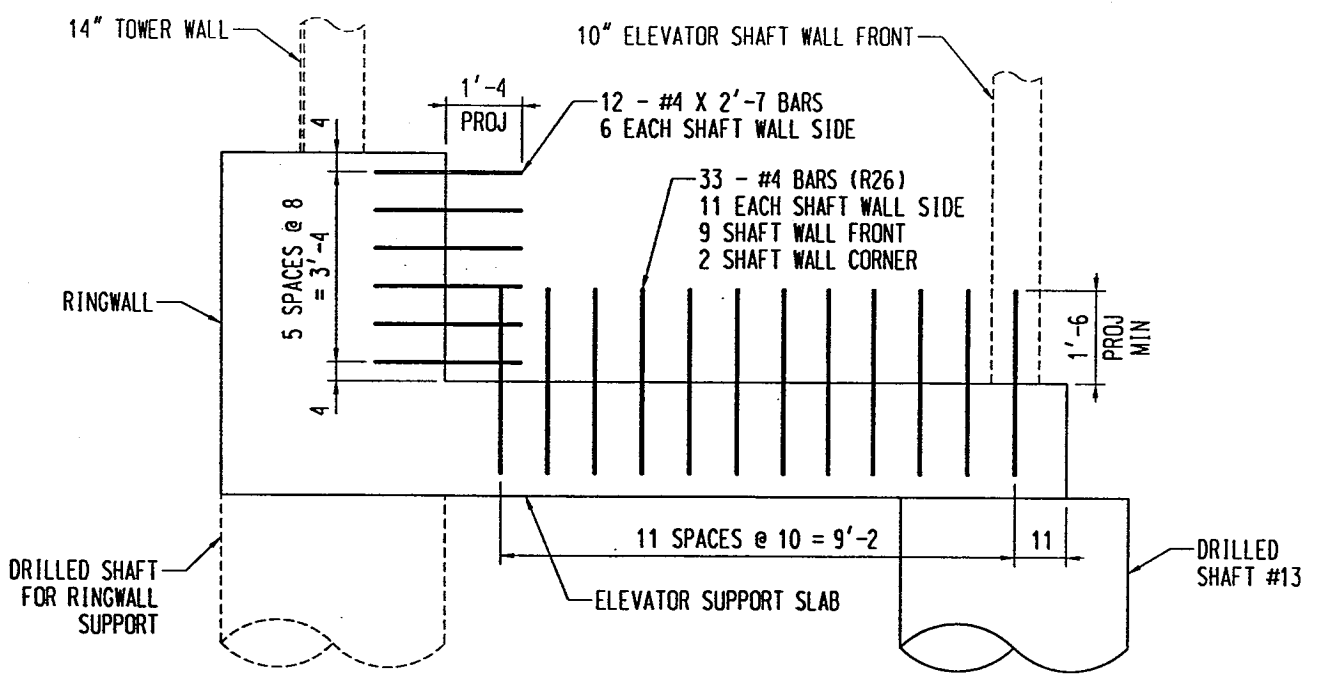
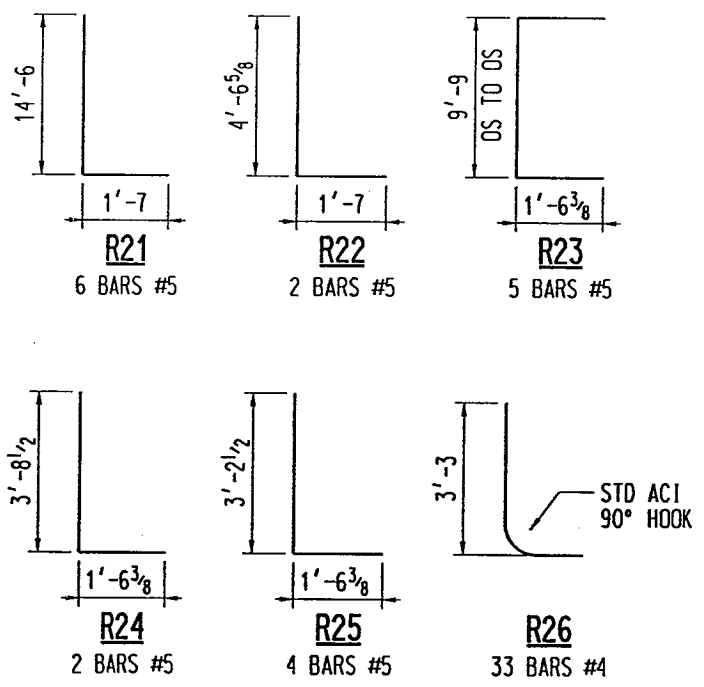
SECTION K-K



SECTION L-L

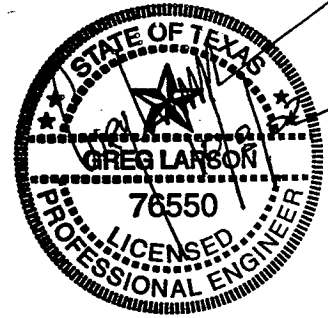


DRILLED SHAFT #13
SEE SHEET 2 FOR SHAFT DETAILS



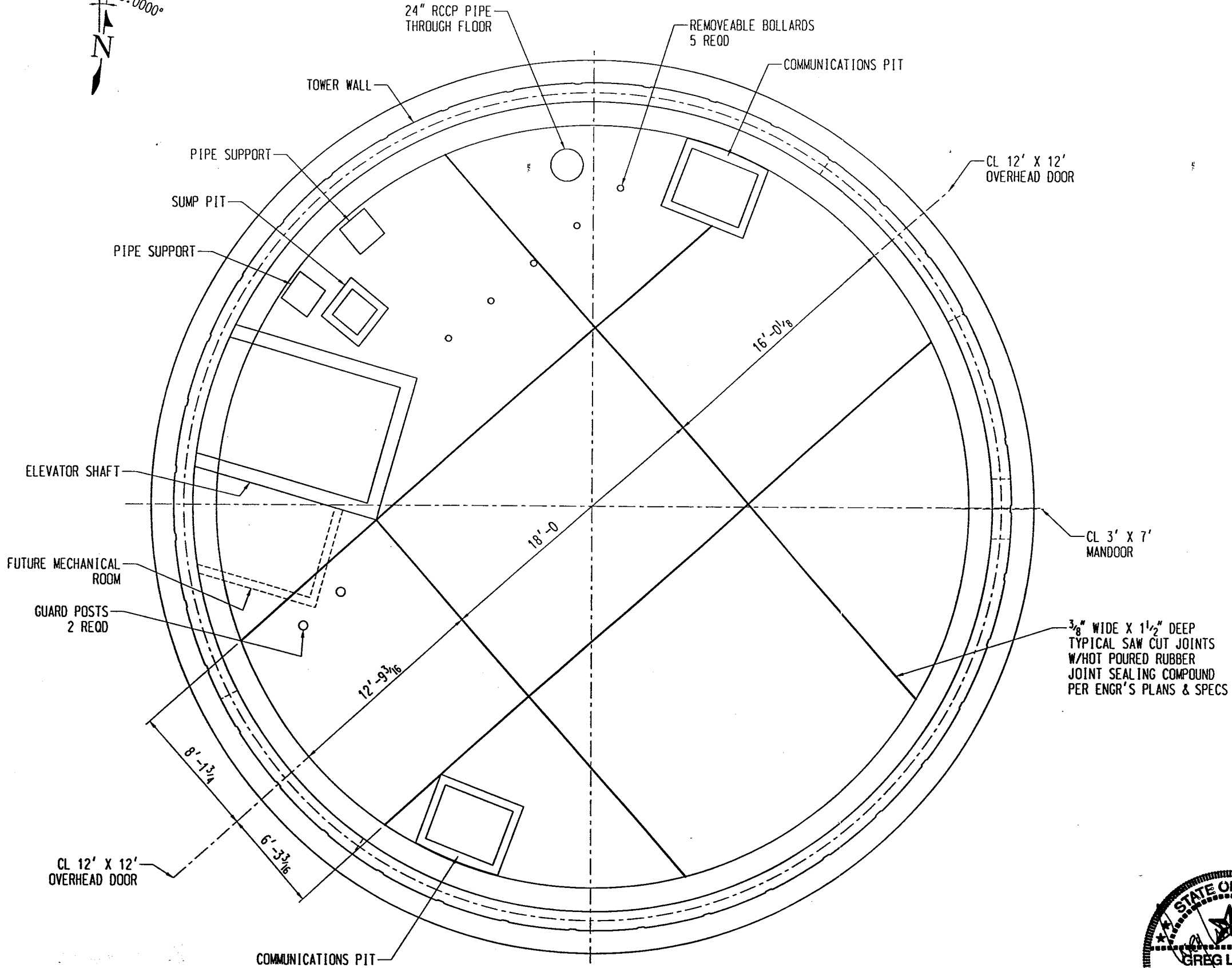
SECTION M-M

BY: *Greg A. Schrodter* DATE: 9/30/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



REVISIONS		REMARKS	
BY	DATE	ELEVATOR SUPPORT SLAB SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX	
BY	DATE	CUSTOMER'S NO	CONTRACT NO
BY	DATE	BY JRM CHKD CDS DATE 30SEP02	137719
BY	DATE	GREG SCHRODTER - CLIVE	DWG F1 REV 0
BY	DATE	ENGINEERING ASSISTANT	SHT 9
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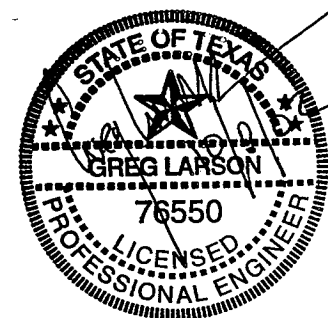
▲ INDICATES CHANGE FROM PREVIOUS ISSUE



SAWCUT FLOOR PLAN
SLOPE FLOOR TOWARDS SUMP PIT

▲ INDICATES CHANGE FROM PREVIOUS ISSUE

BY: *Greg A. Schmidt* DATE: 9/30/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



REVISIONS		CUSTOMER'S NO		CONTRACT NO	
BY	DATE	BY	DATE	DWG	REV
				F1	0
REMARKS		BY CDS, CHKD JRM, DATE 26SEP02		137719	
		GREG SCHRODER - CLIVE			
		ENGINEERING ASSIGNED			
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SAWCUT FLOOR PLAN
SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK
2000 MG CET 97' DIA X 40' HR X 52' TWR
ROCKWALL, TX