

DEPARTMENT OF THE ARMY LICENSE
BUFFALO BAYOU AND TRIBUTARIES PROJECT
BARKER DAM
HARRIS COUNTY, TEXAS

THE SECRETARY OF THE ARMY, hereinafter referred to as the Secretary, under authority of his general administrative powers, hereinafter referred to as the Secretary, hereby grants to Fort Bend County, a political sub-division of the State of Texas, principally located at 301 Jackson Street, Richmond, Texas 77469, hereinafter referred to as the grantee, a license for the construction, operation, and maintenance of a concrete monument, with mosaic designs honoring the United States Armed Forces, and an outfall structure over, across, in and upon lands of the United States, as identified in Exhibits A and B, attached hereto and made a part hereof, hereinafter referred to as the premises.

THIS LICENSE is granted subject to the following conditions.

1. TERM

This license is granted for a term of five (5) years, beginning November 1, 2014, and ending October 31, 2019, but revocable at will by the Secretary.

2. CONSIDERATION

The consideration is the operation, maintenance, and repair of the property for the public served.

3. NOTICES

All notices and correspondence to be given pursuant to this license shall be addressed, if to the grantee, to County Judge, Fort Bend County, 301 Jackson Street, Richmond, Texas 77469; and if to the United States, to the District Engineer, Attention: Chief, Real Estate Division, Post Office Box 1229, Galveston, Texas 77553, Physical Address: 2000 Fort Point Road, Galveston, Texas 77550; or as may from time to time otherwise be directed by the parties. Notice shall be deemed to have been duly given if and when enclosed in a properly sealed envelope addressed as aforesaid, and deposited, postage prepaid, in a post office regularly maintained by the United States Postal Service.

4. AUTHORIZED REPRESENTATIVES

Except as otherwise specifically provided, any reference herein to "Secretary", "Real Estate Contracting Officer", "Installation Commander", or "said officer" shall include their duly authorized representatives. Any reference to "grantee" shall include any duly authorized representatives.

5. SUPERVISION BY THE REAL ESTATE CONTRACTING OFFICER

The use and occupation of the premises shall be subject to the general supervision and approval of the Real Estate Contracting Officer, Galveston District hereinafter referred to as said officer, and to such rules and regulations as may be prescribed from time to time by said officer.

6. APPLICABLE LAWS AND REGULATIONS

The grantee shall comply with all applicable Federal, state, county and municipal laws, ordinances and regulations wherein the premises are located.

7. CONDITIONAL USE BY GRANTEE

The exercise of the privileges herein granted shall be:

- a. without cost or expense to the United States;
- b. subject to the right of the United States to improve, use or maintain the premises.
- c. subject to other outgrants of the United States on the premises.

d. personal to the grantee, and this license, or any interest therein, may not be transferred or assigned.

8. CONDITION OF PREMISES

The grantee acknowledges that it has inspected the premises, knows its condition, and understands that the same is granted without any representations or warranties whatsoever and without any obligation on the part of the United States.

9. COST OF UTILITIES

The grantee shall pay the cost, as determined by the officer having immediate supervision over the premises, of producing and/or supplying any utilities and other services furnished by the Government or through Government-owned facilities for the use of the grantee, including the grantee's proportionate share of the cost of operation and maintenance of the Government-owned facilities by which such utilities or services are produced or supplied. The Government

shall be under no obligation to furnish utilities or services. Payment shall be made in the manner prescribed by the officer having such jurisdiction.

10. PROTECTION OF PROPERTY

The grantee shall keep the premises in good order and in a clean, safe condition by and at the expense of the grantee. The grantee shall be responsible for any damage that may be caused to property of the United States by the activities of the grantee under this license, and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the grantee incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the grantee to a condition satisfactory to said officer, or at the election of said officer, reimbursement made therefor by the grantee in an amount necessary to restore or replace the property to a condition satisfactory to said officer.

11. INDEMNITY

~~The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the exercise of the privileges herein granted, or for damages to the property of the grantee, or for damages to the property or injuries to the person of the grantee's officers, agents, or employees or others who may be on the premises at their invitation or the invitation of any one of them, and the grantee shall hold the United States harmless from any and all such claims not including damages due to the fault or negligence of the United States or its contractors.~~

12. RESTORATION

On or before the expiration of this license or its termination by the grantee, the grantee shall vacate the premises, remove the property of the grantee, and restore the premises to a condition satisfactory to said officer. If, however, this license is revoked, the grantee shall vacate the premises, remove said property and restore the premises to the aforesaid condition within such time as the Real Estate Contracting Officer may designate. In either event, if the grantee shall fail or neglect to remove said property and restore the premises, then, at the option of said officer, the property shall either become the property of the United States without compensation therefor, or said officer may cause the property to be removed and no claim for damages against the United States or its officers or agents shall be created by or made on account of such removal and restoration work. The grantee shall also pay the United States on demand any sum which may be expended by the United States after the expiration, revocation, or termination of this license in restoring the premises.

13. NON-DISCRIMINATION

The grantee shall not discriminate against any person or persons or exclude them from participation in the grantee's operations, programs or activities because of race, color, religion, sex, age, handicap or national origin in the conduct of operations on the premises. The grantee will comply with the Americans with Disabilities Act and attendant Americans with

Disabilities Act Accessibility Guidelines (ADAAG) published by the Architectural and Transportation Barriers Compliance Board.

14. TERMINATION

This license may be terminated by the grantee at any time by giving the Real Estate Contracting Officer at least ten (10) days notice in writing provided that no refund by the United States of any consideration previously paid shall be made and provided further, that in the event that said notice is not given at least ten (10) days prior to the rental due date, the grantee shall be required to pay the consideration for the period shown in the Condition on CONSIDERATION.

15. ENVIRONMENTAL PROTECTION

a. Within the limits of their respective legal powers, the parties to this license shall protect the premises against pollution of its air, ground and water. The grantee shall comply with any laws, regulations, conditions, or instructions affecting the activity hereby authorized if and when issued by the Environmental Protection Agency, or any Federal, state, interstate or local governmental agency having jurisdiction to abate or prevent pollution. The disposal of any toxic or hazardous materials within the premises is specifically prohibited. Such regulations, conditions, or instructions in effect or prescribed by said Environmental Protection Agency, or any Federal, state, interstate or local governmental agency are hereby made a condition of this license. The grantee shall not discharge waste or effluent from the premises in such a manner that the discharge will contaminate streams or other bodies of water or otherwise become a public nuisance.

b. The grantee will use all reasonable means available to protect the environment and natural resources, and where damage nonetheless occurs from the grantee's activities, the grantee shall be liable to restore the damaged resources.

c. The grantee must obtain approval in writing from said officer before any pesticides or herbicides are applied to the premises.

16. HISTORIC PRESERVATION

The grantee shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archeological, architectural or other cultural artifacts, relics, remains or objects of antiquity. In the event such items are discovered on the premises, the grantee shall immediately notify said officer and protect the site and the material from further disturbance until said officer gives clearance to proceed.

17. DISCLAIMER

This license is effective only insofar as the rights of the United States in the premises are concerned; and the grantee shall obtain any permit or license which may be required by Federal, state, or local statute in connection with the use of the premises. It is understood that the

granting of this license does not preclude the necessity of obtaining a Department of the Army permit for activities which involve the discharge of dredge or fill material or the placement of fixed structures in the waters of the United States, pursuant to the provisions of Section 10 of the Rivers and Harbors Act of 3 March 1899 (33 USC 403), and Section 404 of the Clean Waters Act (33 USC 1344).

18. SPECIAL CONDITIONS

a. The grantee shall notify and coordinate with the U.S. Army Corps of Engineers, Addicks Field Office. The point of contact shall be Mr. Richard Long, Natural Resource Manager, for the Houston Project Office. He may be contacted by telephone at 713-296-9177.

b. Within one week prior to commencing any activity authorized by this License, grantee shall host a meeting at a time and place convenient to the Addicks Field Office in order to assure all parties are well informed as to the extent and limitations of the proposed work. At a minimum, the attendees shall include, but may not be limited to, the following individuals; the grantee's engineer responsible for the project, the grantee's inspector on the job, the contractor's individual responsible for the job, the contractor's job foreman, and a representative of the Addicks Field Office.

c. Grantee shall notify the Addicks Field Office of its intent to stage the construction three business days before grantee accesses the property for this purpose.

d. The construction of the monument will require the placement of materials (gravel, concrete, asphalt, etc.) in Barker Reservoir which will result in a decrease in the storage capacity of the reservoir. To compensate for the reduction in capacity, Fort Bend County shall calculate the volume of the materials being brought into the reservoir and remove a like amount of material (soil) from the reservoir and dispose of it outside of the government property boundaries. The material may be a combination of materials excavated as a result of the construction of the monument, from a stock pile of excess soil on site, or from a site which the grantee may be directed to by the Addicks Field Office. This should be done in conjunction with the construction.

e. All disturbed areas shall have a stand of vegetation established in order to prevent erosion.

f. Within 90 days of project completion, Fort Bend County shall provide the Lake Manager (Richard Long) at the Addicks Field Office, the Land Use Coordinator for Operations Division (Frank Garcia) and the Realty Specialist (Scott Tackett) with as-built drawings of the completed work.

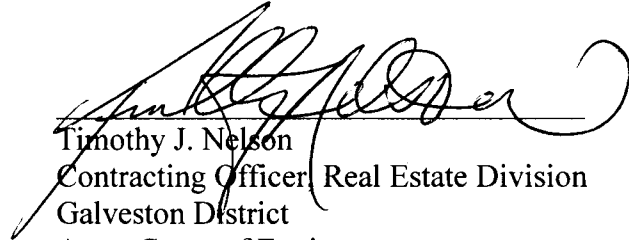
g. All premises restoration must be completed to the satisfaction of the Real Estate Contracting Officer.

h. A Corps of Engineers Regulatory Permit will not be issued for this work.

PRIOR TO the execution of this license Condition 11, INDEMNITY, was deleted.

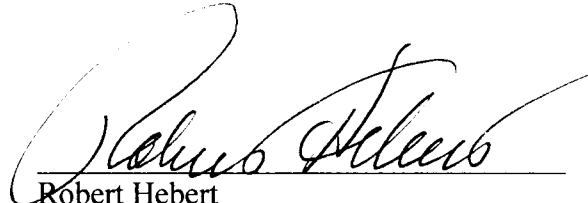
THIS LICENSE is not subject to Title 10, United States Code, Section 2662, as amended.

IN WITNESS WHEREOF, I have hereunto set my hand by authority of the Secretary of the Army, this 8th day of December, 2014.


Timothy J. Nelson
Contracting Officer, Real Estate Division
Galveston District
Army Corps of Engineers

THIS LICENSE is also executed by the grantee this 25th day of November, 2014.

FORT BEND COUNTY


Robert Hebert
County Judge

CERTIFICATE

I, Dianne Wilson certify that I am the County Clerk
of **Fort Bend County**, a political sub-division of the State of Texas, named as grantee herein;
and that Honorable Judge Robert Hebert, who signed this license on behalf of the grantee, was
then County Judge for **Fort Bend County**. I further certify that the said officer was acting
within the scope of powers delegated to this officer by the governing body of **Fort Bend County**
in executing said instrument.

11/25/14
Date

Dianne Wilson
Signature DIANNE WILSON
COUNTY CLERK

SEAL



NOTE:

This form certifies that the person signing the attached instrument has the authority to do so. The signature of the Secretary/Attesting Officer and the individual signing the attached instrument cannot be the same person.



DATUM: NORTH AMERICAN 1983 FEET
PROJECTION: STATE PLANE
ZONE: SOUTH CENTRAL ZONE

Sheets 1 of 1

PREPARED BY:
REAL ESTATE DIVISION
DATE: 14 OCT 2014



**US Army Corps
of Engineers
Galveston District**

The data is only a representation of features on the earth compiled by computer program from raw data obtained from different sources and is not necessarily, in whole or in part, based upon any physical recording, study or survey, professional or otherwise, of the covered property. This information is not intended as a substitute for a field survey by a licensed professional or any other use or application that requires legal or engineering accuracy.

A vertical scale bar labeled "Feet" at the top. The bar has alternating black and white segments. Numerical markings are placed to the left of the bar at intervals of 62.5, starting from 0 at the bottom and ending at 500 at the top. The markings are: 0, 62.5, 125, 250, 375, and 500.

BENCHMARK:
DESIGNATION 206
BRASS CAP ON TOP OF CURB LOCATED WITHIN
HILAP EASEMENT APPROXIMATELY 1900' SOUTH
FROM THE INTERSECTION OF FRY ROAD AND
WESTHEIMER PARKWAY
ELEV. 99.34'
NGVD 1929 DATUM (1978 ADJ)
X=3036159.89
Y=705664.56

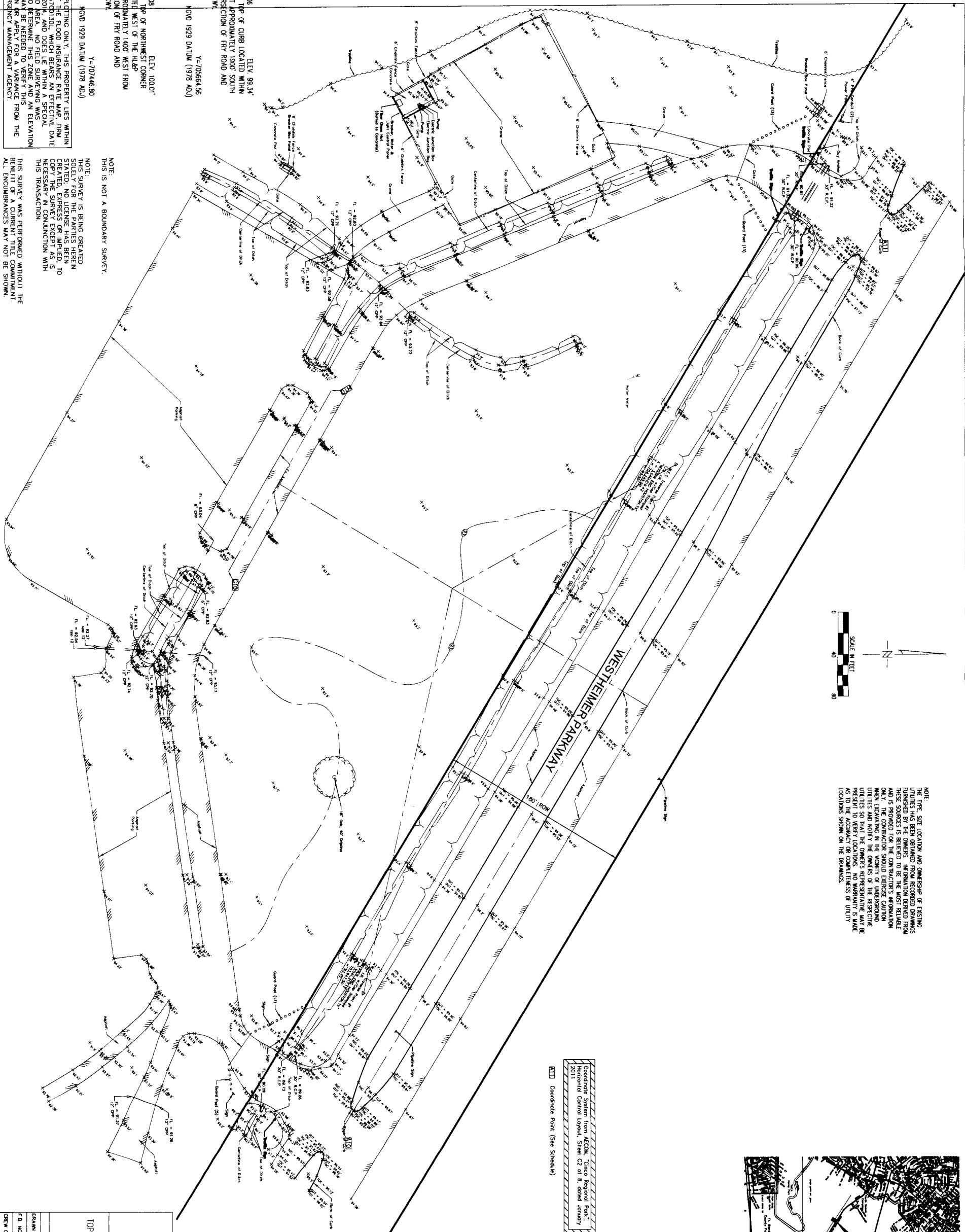
BENCHMARK:
DESIGNATION 208
BRASS CAP ON TOP OF NORTHWEST CORNER
OF INLET LOCATED WEST OF THE HILAP
EASEMENT APPROXIMATELY 1400' WEST FROM
THE INTERSECTION OF FRY ROAD AND
WESTHEIMER PARKWAY
ELEV. 100.01'
NGVD 1929 DATUM (1978 ADJ)
X=3035492.77
Y=707446.80

BY GRAPHIC REDUCTION ONLY, THIS PROPERTY LIES WITHIN
ZONE "AC" OF THE FLOOD INSURANCE RATE MAP, FIRM
MAP NO. 48157CD-301, WHICH BEARS AN EFFECTIVE DATE
OF APRIL 2, 2004, AND DOES LIE WITHIN A SPECIAL
FLOOD HAZARD AREA. NO FIELD SURVEYING WAS
PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION
DETERMINATION IS REQUIRED FOR A VARIANCE FROM THE
FEDERAL EMERGENCY MANAGEMENT AGENCY.

NOTE:
THIS IS NOT A BOUNDARY SURVEY.

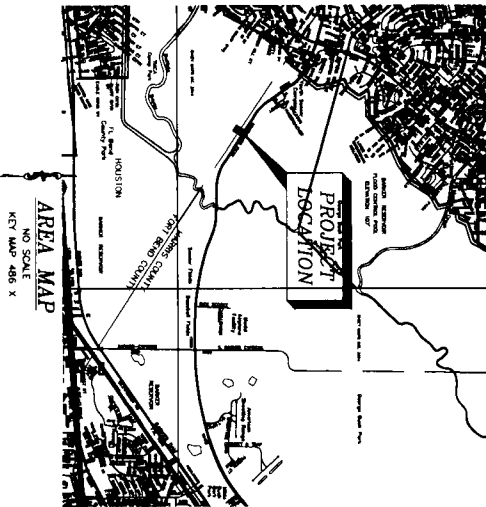
NOTE:
THIS SURVEY IS BEING CREATED
SOLELY FOR THE PURPOSES HEREIN
STATED AND NO OTHER PURPOSES
SHOULD BE IMPLIED. TO
COPY THE SURVEY EXCEPT AS IS
NECESSARY IN CONJUNCTION WITH
THIS TRANSACTION.

NOTE:
THIS SURVEY WAS PERFORMED WITHOUT THE
BENEFIT OF A CURRENT TITLE COMMITMENT.
ALL ENCUMBRANCES MAY NOT BE SHOWN.



NOTE:
THE TYPE, SIZE, LOCATION AND OWNERSHIP OF EXISTING
UTILITIES HAS BEEN OBTAINED FROM RECORDED DRAWINGS
FURNISHED BY THE OWNERS. INFORMATION DERIVED FROM
THESE SOURCES IS NOT GUARANTEED BY THE ENGINEER.
ONLY THE CONTRACTOR SHOULD EXERCISE CAUTION
WHEN EXCAVATING IN THE VICINITY OF UNDERGROUND
UTILITIES AND NOTIFY THE OWNERS OF THE RESPECTIVE
UTILITIES SO THAT THE OWNER'S REPRESENTATIVE MAY BE
PRESENT TO MARK LOCATIONS. REPRESENTATIVE IS MADE
AS TO THE ACCURACY OF THE INFORMATION AND THE
LOCATIONS SHOWN ON THE DRAWINGS.

RTD Coordinate Point (See Schedule)
Horizontal Control System from AECOM, "Cinco Regional Park",
2011
Horizontal Control Layout, Sheet C2 of B, dated January
2011



DISCLAIMER:
OVERSEEN LINES ARE EXIST ON THE PROPERTY. WE HAVE NOT
ATTEMPTED TO MARK THESE LINES SINCE THEY ARE CLEARLY
ANY CONSTRUCTION, EXISTING LINES, SECTION 322, HEALTH &
SAFETY CODE, OR OTHERS. ALL ACTIVITIES IN WHICH PERSONS OR
PROPERTY ARE EXPOSED TO THE RISK OF INJURY OR DAMAGE
SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE
SAFETY OF CONSTRUCTION WORKERS, LINES, AND THIS
LAW, THESE LINES, AND THE LIABILITY TO INJURY
AT (713) 207-7777.

NO.	DATE	REVISIONS
1		
2		
3		
4		

FREEDOM PARK
George W. Bush Park
Harris County, Texas

FREEDOM PARK
EXIST TOPO SURVEY

Vano T. Wilson, P.E., Inc.
Consulting Engineer
CIVIL STRUCTURAL

P. O. Box 80, Bellair, Texas 77402
(713) 207-7777
Firm Registration No. F-3778

This drawing is hereby released to Committee
Members for use for construction purposes
until Engineer's Seal is affixed and Signed.

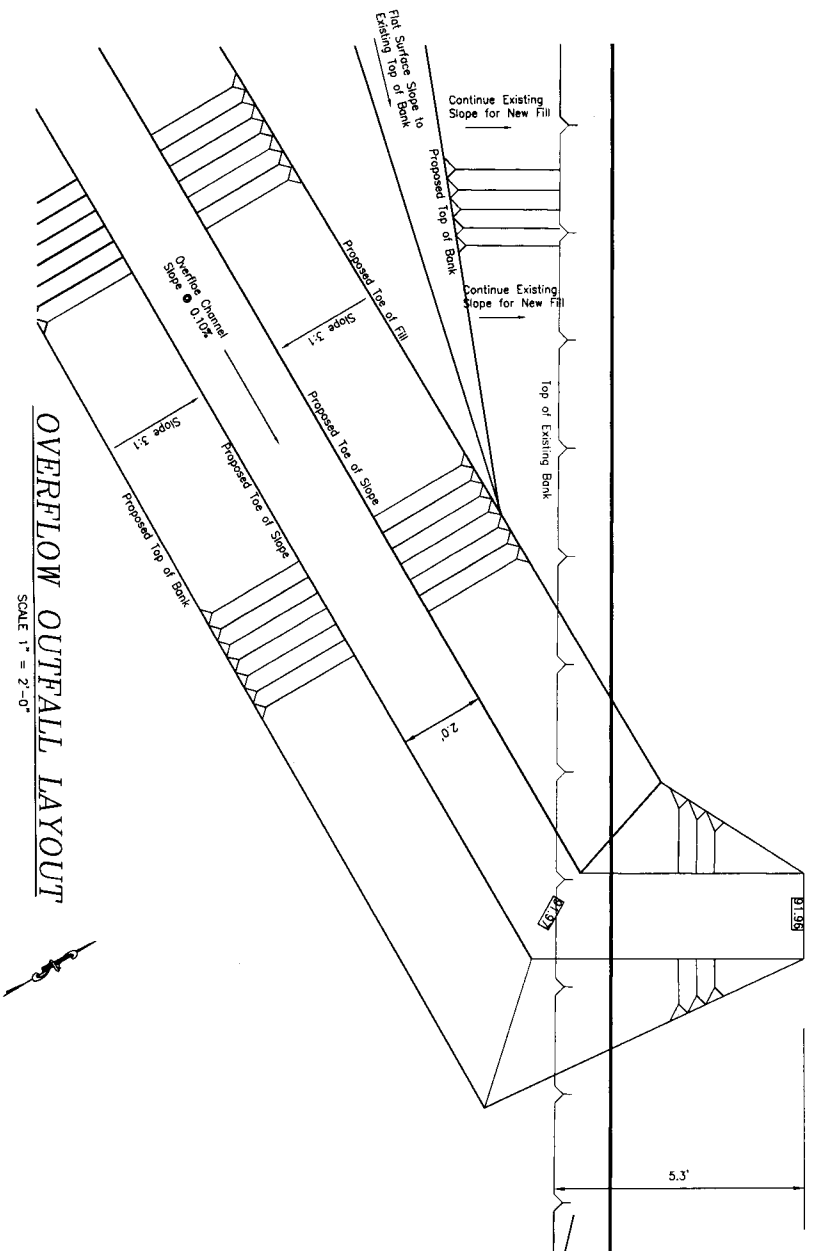
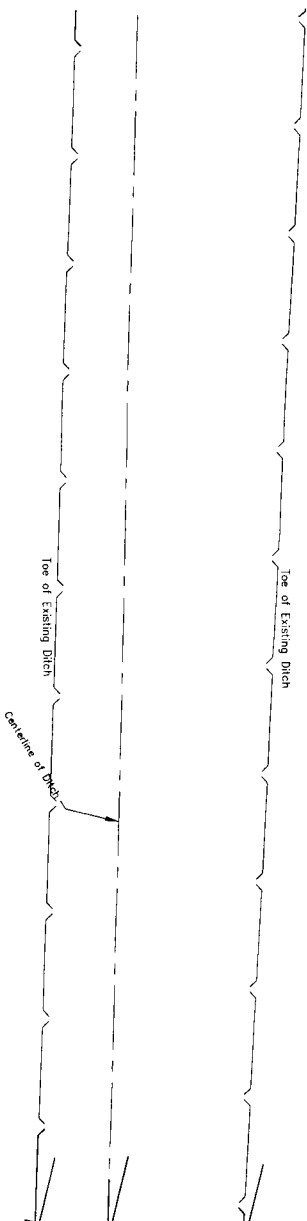
SHEET NO.
C-0.0

SCALE: 1" = 40'-0"
DATE: 9/01/2014
DESIGNER: J.L. JOHNSON
CHECKED BY: J.L. JOHNSON
DATE: 08/14/2014
JOB NO.: 971-008

WEISSER Engineering Co.
19500 Fork Row, Suite 100
Houston, Texas 77064
(281) 579-7300
www.weisser-engineering.com

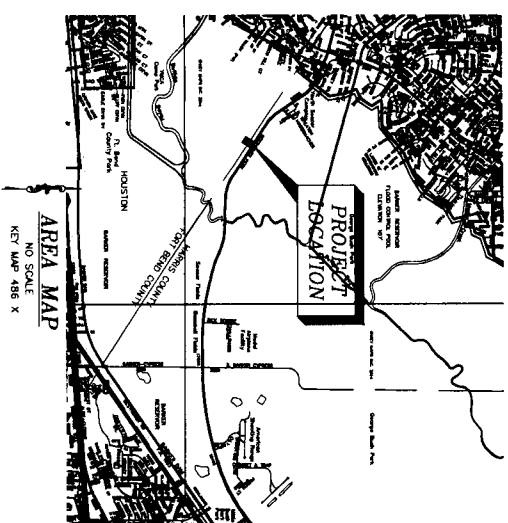
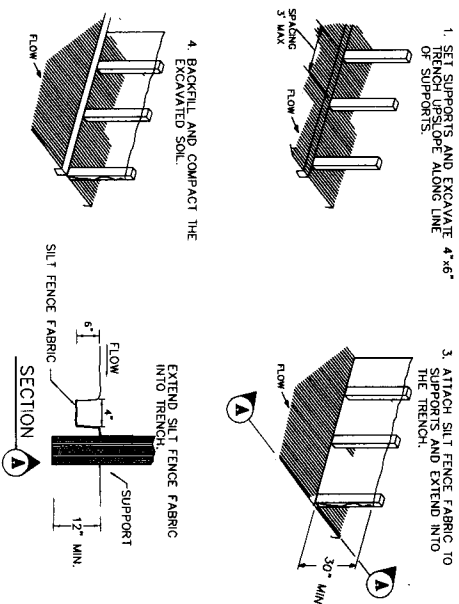
**TOPOGRAPHIC SURVEY OF APPROXIMATELY 16 ACRES,
FREEDOM PARK MONUMENT IMPROVEMENTS
FORT BEND COUNTY, TEXAS**

DESIGNED BY:	S.P.	CALCULATED BY:	J.L.	SCALE:	1" = 40'
DRAWN BY:	3058	CHECKED BY:	J.L.	SHEET:	01 OF 01
DATE:	08/14/2014	JOB NO.:	971-008	GC/AB	



S.W.P.P. DETAILS

NO SCALE



OVERFLOW LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THESE LINES SINCE THEY ARE CLEARLY ANY CONSTRUCTION. SEE SECTION 102.0, HARRIS COUNTY SAFETY CODE. FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR MACHINERY ARE OPERATING ON OR NEAR THE LINES OF OVERFLOW LINES. PERSONS RESPONSIBLE FOR THE WORK INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE LINES TO BE TURNED OFF OR MOVED. CALL RELIANT ENERGY AT (713) 201-1771.

4	
3	
2	
1	FOR PERMIT
NO	DATE
	REVISIONS

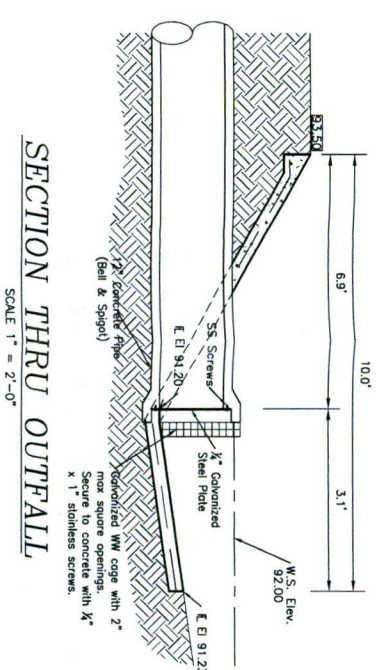
FREEDOM PARK
George W. Bush Park
Harris County, Texas

FREEDOM PARK
OVERFLOW OUTFALL

Vano T. Wilson, P.E., Inc.
Consulting Engineer
CIVIL STRUCTURAL
P. O. Box 66, Bellaire, Texas 77408
(713) 776-1111
Firm Registration No. F-3776

This drawing is hereby released to Committee Members for the purpose of review and acceptance. This drawing is NOT FOR CONSTRUCTION OR PERMITS until Engineer's Seal is affixed and Signed.

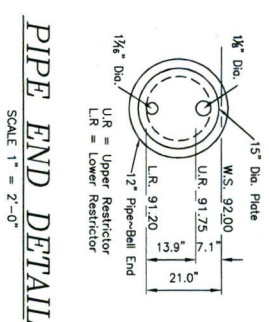
SHEET NO.	C-4.0
SCALE: 1" = 2'-0"	DRAWN BY: VTW
DATE: 9/1/2014	APP. BY: VTW
JOB NO. 14-009	DWG. NO. 14-009-05



SCALE 1" = 2'-0"



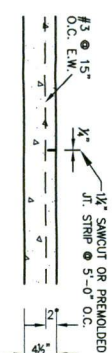
SCALE 1" = 2'-0"



SCALE 1" = 2'-0"



SCALE 1" = 2'-0"



SCALE 1" = 1'-0"

NO SCALE

NO SCALE

EXHIBIT B

WARNING:

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THESE LINES SINCE THEY ARE CLIMATE SENSITIVE. BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING WORK. DO NOT CUT OR REMOVE ANY TREES OR PLANTS IN THE SAFETY CODE ZONES. FOREGO ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS AND SUBCONTRACTORS, SHALL BE RESPONSIBLE FOR CONSTRUCTION WHENEVER THERE IS A POSSIBILITY THAT THE LINE COULD BE DAMAGED OR THAT THE LINE CARRIES BOTH CRIMINAL AND CIVIL LIABILITY TO ABANDON THE LINES TO BE TURNED OFF OR MOVED. CALL RELIANT ENERGY AT (713) 207-7777.

George W. Bush Park
Harris County, Texas

FREEDOM PARK CIVIL DETAILS

Vano T. Wilson, P.E., Inc.
Consulting Engineer

CIVIL	STRUCTURAL
P. O. Box 95, (713) 772-8008 ~ Firm Registration No. F-3776	Bellaire, Texas 77402 varnolison@att.net

This drawing is hereby released to Committee Members for the purpose of review and acceptance. This drawing is NOT FOR CONSTRUCTION or PERMITS until Engineer's Seal is affixed and Signed.

SHEET NO.
C-5.0

1.	BUILDING CODE:	2008	ISC
2.	LIVE LOADS		
	WALL/SLAB	100	PSF
3.	WIND LOADS		
	WIND SPEED	115	MPH
4.	WIND DIRECTION	1.0	
5.	PERFORMANCE FACTOR		
6.	SEISMIC CATEGORY	C	
7.	SEISMIC IMPORTANCE		
8.	SEISMIC RESPONSE ACCELERATION	(SS)	0.087
9.	SEISMIC RESPONSE ACCELERATION	(SI)	0.033
10.	SEISMIC RESPONSE ACCELERATION	(S)	1.0
11.	SITE CLASSIFICATION		
12.	SEISMIC DURATION		5

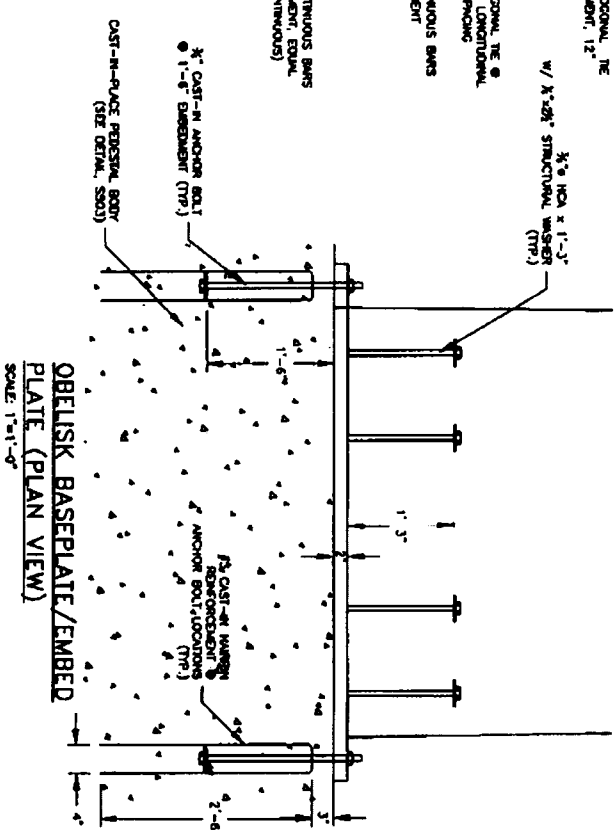
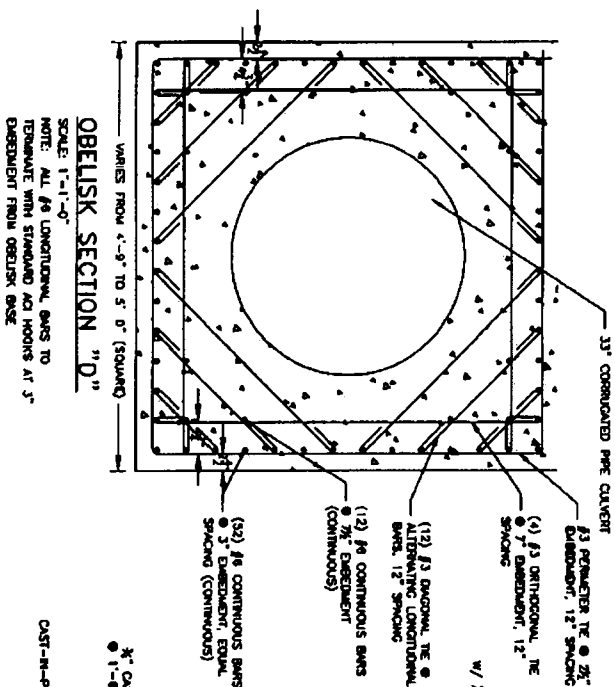
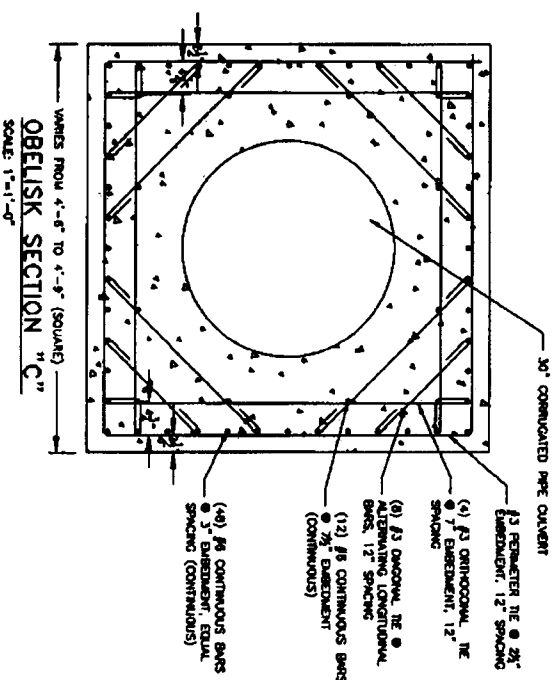
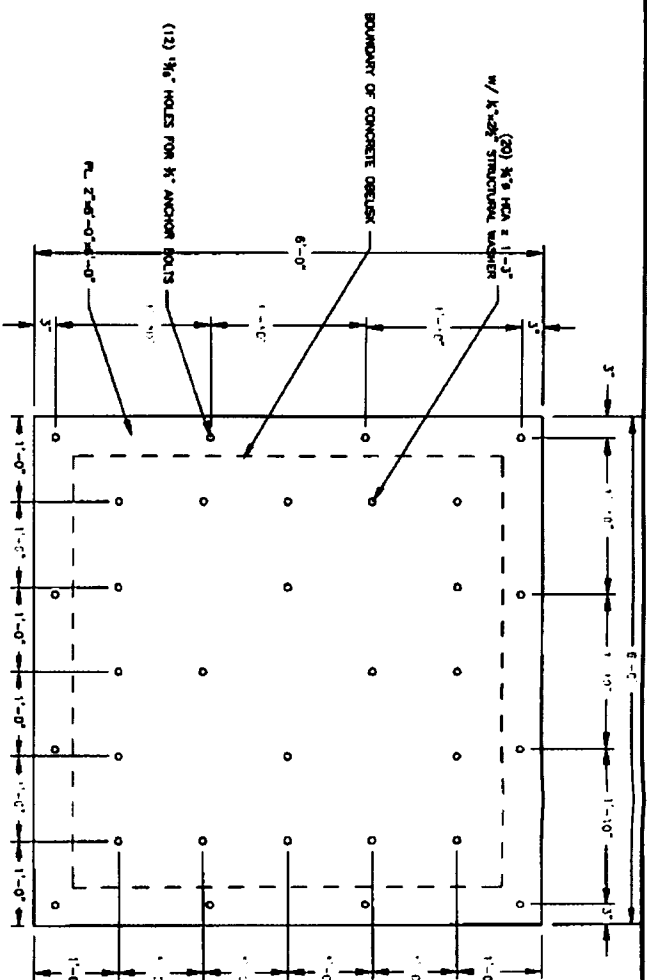
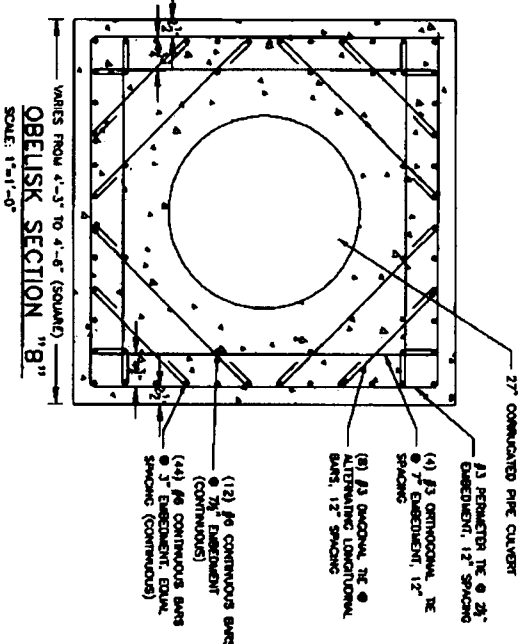
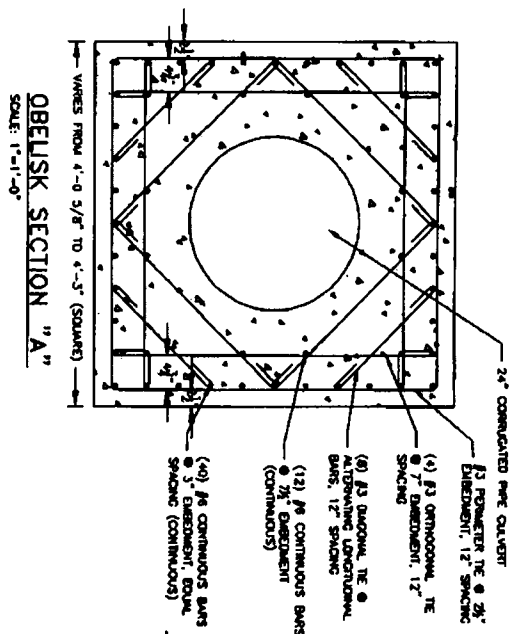
1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF ALL STRUCTURES DURING ALL PHASES OF CONSTRUCTION.
2. JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL ADHERE TO OCCUPATIONAL SAFETY AND HEALTH (OSHA) REGULATIONS, AS A MINIMUM, TO PROTECT PERSONNEL AT CONSTRUCTION SITES.

1. THE SITE GEOCHEMICAL INVESTIGATION FOR THIS PROJECT WAS PREPARED BY BLACK HENSTON CONSULTANTS INC., 3802 WESTCHASE, HOUSTON TX 77062, TEL. 713-996-6160, REPORT NO. AM11-023-00. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND REVIEW IT TO BECOME THOROUGHLY FAMILIAR WITH THE GEOCHEMICAL CONDITIONS THAT EXIST AT THIS SITE AND THE RECOMMENDATIONS PRESENTED THEREIN.

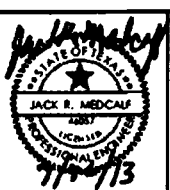
2. BILLED PILE DRILLS ARE USED ON A NET ALLOWABLE SOIL BEARING PRESSURE OF 4500 PSF FOR 12" DIA. POINTS, 6750 PSF FOR 18" DIA. PILES. SUSTAINED LIVE LOADS AND 8000 PSF FOR TOTAL LOADS. FOOTINGS SHALL BE ON UNDERSTRENGTH STIFF OR MEDIA-STIFF TO VERY STIFF SALT OR STRATIGRAPHIC FILL UNDERLAYING FILL MATERIALS.
3. STONE, SUBGRADE, INSULATION, TOPSOIL, SOIL SYSTEMS, GRAVEL MATERIAL, AND SOFT OR COMPRESSIBLE UNDERLAY MATERIAL SHALL BE PROTECTED TO PREVENT PROTRUSION INTO THE AREA OF THE ONDRAK PIEDMENT, 17" IN THE AREA OF THE WALLS. REMOTE WALLS ARE ERECTED BELOW. SOAKERS THE EXPOSED SUBGRADE TO A DEPTH OF 8 INCHES AND REINFORCE TO 55 PERCENT OF THE MATERIAL'S MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D1557. GRANULAR MATERIALS USED AS UNDERLAYMENT SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY OF ASTM D1557. GRANULAR MATERIALS USED AS UNDERLAYMENT FILL SHALL BE CRUSHED ROCK OR CRUSHED SAND AND GRAVEL. GRANULAR MATERIALS SHALL BE PLACED IN 6" LIFT THICKNESS. ALL FILL OR OTHER RELATIVES MATERIALS SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1 1/2 INCHES, AND HAS LESS THAN 5 PERCENT PASSING THE NO. 200 SIEVE. THE IMPORTED GRANULAR MATERIAL SHOULD BE PLACED IN TWO LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO THE STANDARD SPECIFIED ABOVE.
4. THE CONTRACTOR SHALL PROTECT AND EXISTING PROPER DRAINAGE OF THE SITE PRIOR TO BEGINNING CONSTRUCTION OF THE FOUNDATIONS. DRAINAGE SHALL BE SUCH THAT SURFACE DRAINAGE IS ROUTED AWAY OR AWAY FROM THE FOUNDATION SITES. WEATHERS SHALL BE TAKEN TO PREVENT THE ACCUMULATION OF WATER WITHIN THE CONSTRUCTION AREA.

1. REINFORCED CONCRETE SHALL CONFORM TO ACI 318-11 AND ACI 117, ACI 223, ACI 301, ACI 302, ACI 308R, ACI 308R, ACI 309, ACI 309R AND ACI 319R.
2. REINFORCED CONCRETE FOR WATER RETAINING STRUCTURES SHALL CONFORM TO ACI 308-10.
3. CLASS OF MATERIAL: MIN. COMP. STRENGTH: MAX. COURSE MAX. SIZE: MAX. SLAB: 4" MAX WATER/CEMENT RATIO: 0.4
4. CLASS A: 4000 PSI
5. CLASS B: 4000 PSI
6. CLASS C: 4000 PSI
7. CLASS D: 4000 PSI
8. CLASS E: 4000 PSI
9. CLASS F: 4000 PSI
10. CLASS G: 4000 PSI
11. CLASS H: 4000 PSI
12. CLASS I: 4000 PSI
13. CLASS J: 4000 PSI
14. CLASS K: 4000 PSI
15. CLASS L: 4000 PSI
16. CLASS M: 4000 PSI
17. CLASS N: 4000 PSI
18. CLASS O: 4000 PSI
19. CLASS P: 4000 PSI
20. CLASS Q: 4000 PSI
21. CLASS R: 4000 PSI
22. CLASS S: 4000 PSI
23. CLASS T: 4000 PSI
24. CLASS U: 4000 PSI
25. CLASS V: 4000 PSI
26. CLASS W: 4000 PSI
27. CLASS X: 4000 PSI
28. CLASS Y: 4000 PSI
29. CLASS Z: 4000 PSI
30. CLASS AA: 4000 PSI
31. CLASS AB: 4000 PSI
32. CLASS AC: 4000 PSI
33. CLASS AD: 4000 PSI
34. CLASS AE: 4000 PSI
35. CLASS AF: 4000 PSI
36. CLASS AG: 4000 PSI
37. CLASS AH: 4000 PSI
38. CLASS AI: 4000 PSI
39. CLASS AJ: 4000 PSI
40. CLASS AK: 4000 PSI
41. CLASS AL: 4000 PSI
42. CLASS AM: 4000 PSI
43. CLASS AN: 4000 PSI
44. CLASS AO: 4000 PSI
45. CLASS AP: 4000 PSI
46. CLASS AQ: 4000 PSI
47. CLASS AR: 4000 PSI
48. CLASS AS: 4000 PSI
49. CLASS AT: 4000 PSI
50. CLASS AU: 4000 PSI
51. CLASS AV: 4000 PSI
52. CLASS AW: 4000 PSI
53. CLASS AX: 4000 PSI
54. CLASS AY: 4000 PSI
55. CLASS AZ: 4000 PSI
56. CLASS BA: 4000 PSI
57. CLASS BB: 4000 PSI
58. CLASS BC: 4000 PSI
59. CLASS BD: 4000 PSI
60. CLASS BE: 4000 PSI
61. CLASS BF: 4000 PSI
62. CLASS BG: 4000 PSI
63. CLASS BH: 4000 PSI
64. CLASS BI: 4000 PSI
65. CLASS BJ: 4000 PSI
66. CLASS BK: 4000 PSI
67. CLASS BL: 4000 PSI
68. CLASS BM: 4000 PSI
69. CLASS BN: 4000 PSI
70. CLASS BO: 4000 PSI
71. CLASS BP: 4000 PSI
72. CLASS BQ: 4000 PSI
73. CLASS BR: 4000 PSI
74. CLASS BS: 4000 PSI
75. CLASS BT: 4000 PSI
76. CLASS BU: 4000 PSI
77. CLASS BV: 4000 PSI
78. CLASS BW: 4000 PSI
79. CLASS BX: 4000 PSI
80. CLASS BY: 4000 PSI
81. CLASS BZ: 4000 PSI
82. CLASS CA: 4000 PSI
83. CLASS CB: 4000 PSI
84. CLASS CC: 4000 PSI
85. CLASS CD: 4000 PSI
86. CLASS CE: 4000 PSI
87. CLASS CF: 4000 PSI
88. CLASS CG: 4000 PSI
89. CLASS CH: 4000 PSI
90. CLASS CI: 4000 PSI
91. CLASS CJ: 4000 PSI
92. CLASS CK: 4000 PSI
93. CLASS CL: 4000 PSI
94. CLASS CM: 4000 PSI
95. CLASS CN: 4000 PSI
96. CLASS CO: 4000 PSI
97. CLASS CP: 4000 PSI
98. CLASS CQ: 4000 PSI
99. CLASS CR: 4000 PSI
100. CLASS CS: 4000 PSI
101. CLASS CT: 4000 PSI
102. CLASS CU: 4000 PSI
103. CLASS CV: 4000 PSI
104. CLASS CW: 4000 PSI
105. CLASS CX: 4000 PSI
106. CLASS CY: 4000 PSI
107. CLASS CZ: 4000 PSI
108. CLASS DA: 4000 PSI
109. CLASS DB: 4000 PSI
110. CLASS DC: 4000 PSI
111. CLASS DD: 4000 PSI
112. CLASS DE: 4000 PSI
113. CLASS DF: 4000 PSI
114. CLASS DG: 4000 PSI
115. CLASS DH: 4000 PSI
116. CLASS DI: 4000 PSI
117. CLASS DJ: 4000 PSI
118. CLASS DK: 4000 PSI
119. CLASS DL: 4000 PSI
120. CLASS DM: 4000 PSI
121. CLASS DN: 4000 PSI
122. CLASS DO: 4000 PSI
123. CLASS DP: 4000 PSI
124. CLASS DQ: 4000 PSI
125. CLASS DR: 4000 PSI
126. CLASS DS: 4000 PSI
127. CLASS DT: 4000 PSI
128. CLASS DU: 4000 PSI
129. CLASS DV: 4000 PSI
130. CLASS DW: 4000 PSI
131. CLASS DX: 4000 PSI
132. CLASS DY: 4000 PSI
133. CLASS DZ: 4000 PSI
134. CLASS EA: 4000 PSI
135. CLASS EB: 4000 PSI
136. CLASS EC: 4000 PSI
137. CLASS ED: 4000 PSI
138. CLASS EE: 4000 PSI
139. CLASS EF: 4000 PSI
140. CLASS EG: 4000 PSI
141. CLASS EH: 4000 PSI
142. CLASS EI: 4000 PSI
143. CLASS EJ: 4000 PSI
144. CLASS EK: 4000 PSI
145. CLASS EL: 4000 PSI
146. CLASS EM: 4000 PSI
147. CLASS EN: 4000 PSI
148. CLASS EO: 4000 PSI
149. CLASS EP: 4000 PSI
150. CLASS EQ: 4000 PSI
151. CLASS ER: 4000 PSI
152. CLASS ES: 4000 PSI
153. CLASS ET: 4000 PSI
154. CLASS EU: 4000 PSI
155. CLASS EV: 4000 PSI
156. CLASS EW: 4000 PSI
157. CLASS EX: 4000 PSI
158. CLASS EY: 4000 PSI
159. CLASS EZ: 4000 PSI
160. CLASS FA: 4000 PSI
161. CLASS FB: 4000 PSI
162. CLASS FC: 4000 PSI
163. CLASS FD: 4000 PSI
164. CLASS FE: 4000 PSI
165. CLASS FF: 4000 PSI
166. CLASS FG: 4000 PSI
167. CLASS FH: 4000 PSI
168. CLASS FI: 4000 PSI
169. CLASS FJ: 4000 PSI
170. CLASS FK: 4000 PSI
171. CLASS FL: 4000 PSI
172. CLASS FM: 4000 PSI
173. CLASS FN: 4000 PSI
174. CLASS FO: 4000 PSI
175. CLASS FP: 4000 PSI
176. CLASS FQ: 4000 PSI
177. CLASS FR: 4000 PSI
178. CLASS FS: 4000 PSI
179. CLASS FT: 4000 PSI
180. CLASS FU: 4000 PSI
181. CLASS FV: 4000 PSI
182. CLASS FW: 4000 PSI
183. CLASS FX: 4000 PSI
184. CLASS FY: 4000 PSI
185. CLASS FZ: 4000 PSI
186. CLASS GA: 4000 PSI
187. CLASS GB: 4000 PSI
188. CLASS GC: 4000 PSI
189. CLASS GD: 4000 PSI
190. CLASS GE: 4000 PSI
191. CLASS GF: 4000 PSI
192. CLASS GG: 4000 PSI
193. CLASS GH: 4000 PSI
194. CLASS GI: 4000 PSI
195. CLASS GJ: 4000 PSI
196. CLASS GK: 4000 PSI
197. CLASS GL: 4000 PSI
198. CLASS GM: 4000 PSI
199. CLASS GN: 4000 PSI
200. CLASS GO: 4000 PSI
201. CLASS GP: 4000 PSI
202. CLASS GQ: 4000 PSI
203. CLASS GR: 4000 PSI
204. CLASS GS: 4000 PSI
205. CLASS GT: 4000 PSI
206. CLASS GU: 4000 PSI
207. CLASS GV: 4000 PSI
208. CLASS GW: 4000 PSI
209. CLASS GX: 4000 PSI
210. CLASS GY: 4000 PSI
211. CLASS GZ: 4000 PSI
212. CLASS HA: 4000 PSI
213. CLASS HB: 4000 PSI
214. CLASS HC: 4000 PSI
215. CLASS HD: 4000 PSI
216. CLASS HE: 4000 PSI
217. CLASS HF: 4000 PSI
218. CLASS HG: 4000 PSI
219. CLASS HH: 4000 PSI
220. CLASS HI: 4000 PSI
221. CLASS HJ: 4000 PSI
222. CLASS HK: 4000 PSI
223. CLASS HL: 4000 PSI
224. CLASS HM: 4000 PSI
225. CLASS HN: 4000 PSI
-

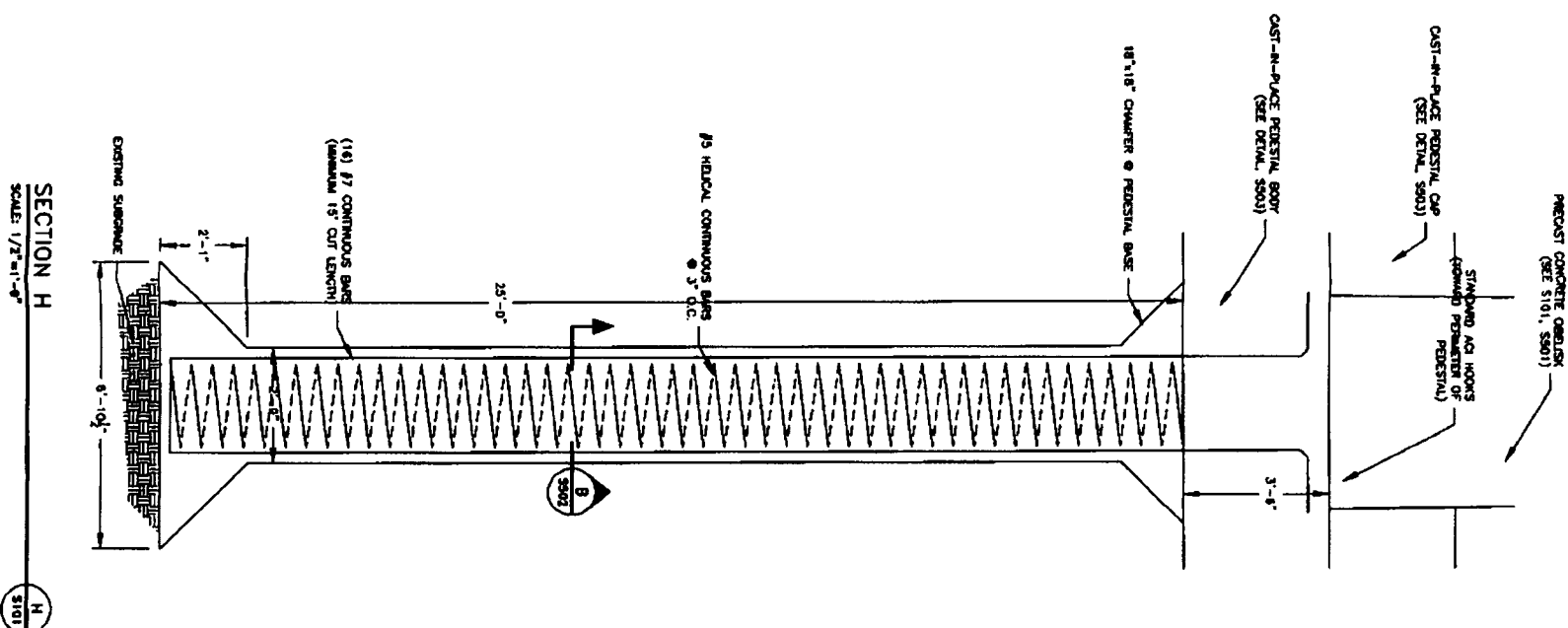
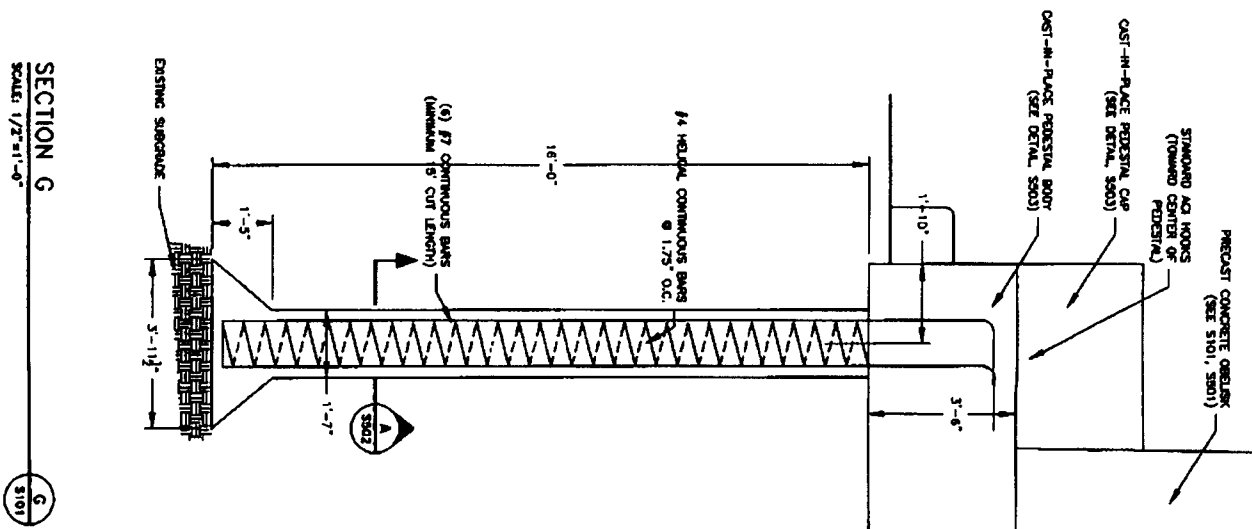
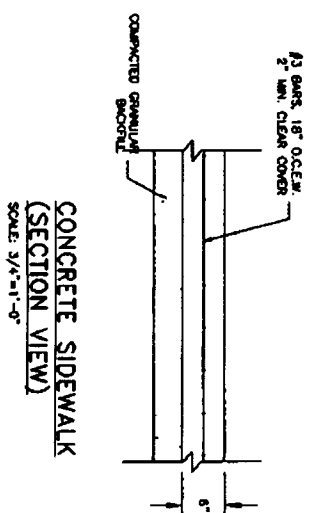
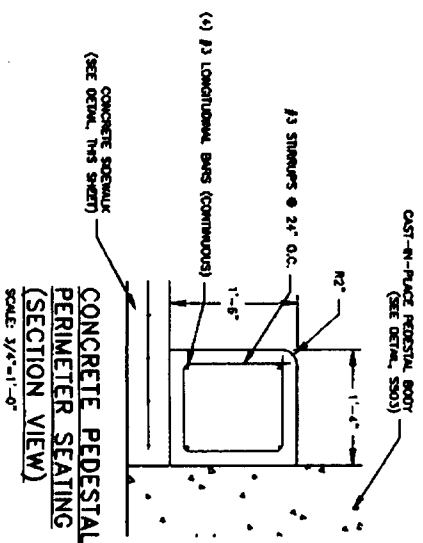
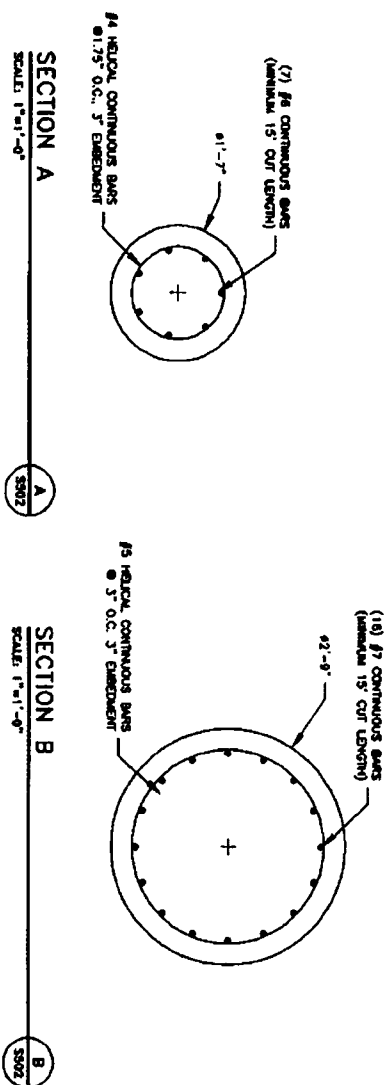
- 1 FORMWORK SHALL BE DESIGNED DETECTED, STRENGTH, BRACED AND VERIFIED IN ACCORDANCE WITH AS 3610 TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS AND DESIGNATION LOADS UNTIL THE CONCRETE STRUCTURE CAN SUPPORT SUCH LOADS.
- 2 FORMWORK SHALL BE SUCH THAT CONCRETE HEADERS ARE OF SIZE, SPACING, ATTACHMENT, DETAILING AND LOCATION SPECIFIED IN THE PLAN.
- 3 FORMWORK SHALL BE CONSTRUCTED WITH PLYWOOD, EXPOSED FIBRE-GLASS REINFORCER, PRESSURIZED LUMBER, FIBERED IN PLYWOOD OR FIBERGLASS LUMBER, ALUMINUM OR STEEL, PLATED PLYWOOD-FACED PLY, ALUMINUM APPROPRIATE TO THE DESIGN TO PROVIDE CONTINUOUS, STRENGTH OF BRASS SURFACES, FORMWORK MATERIAL SHALL BE FREE OF BUBBLES OR BLEMES, TIGHT SURFACES, NO CRACKS, FIBERS, BLOTS OR OTHER SURFACE DEFECTS, FINISH GRADE, TO BE THE LARGEST PRACTICAL SIZE TO MINIMIZE THE NUMBER OF JOINTS.
- 4 CONTRACTOR SHALL NOT BRUSH OR PREVENT LOSS OF CONCRETE FINISH.
- 5 FORMWORK SHALL BE SET READING, WITHOUT DAMAGING OR DISTURBING THE CONCRETE FINISH, PROTECT CORNER OR WEATHER PLATES, BOLT TIGHTENING AND DAMAGE CHOICE SPACES.
- 6 REMOVE ALL GUT, WASH, MOOD CORN, SCAP IT-ING, AND REASON AND ALL OTHER DEBRIS FROM FORMS PRIOR TO REUSE OF CONCRETE.
- 7 COAT SURFACES OF FORMWORK WITH FIRM RELEASE AGENT, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, PRIOR TO PLYWOOD OR REUSE.



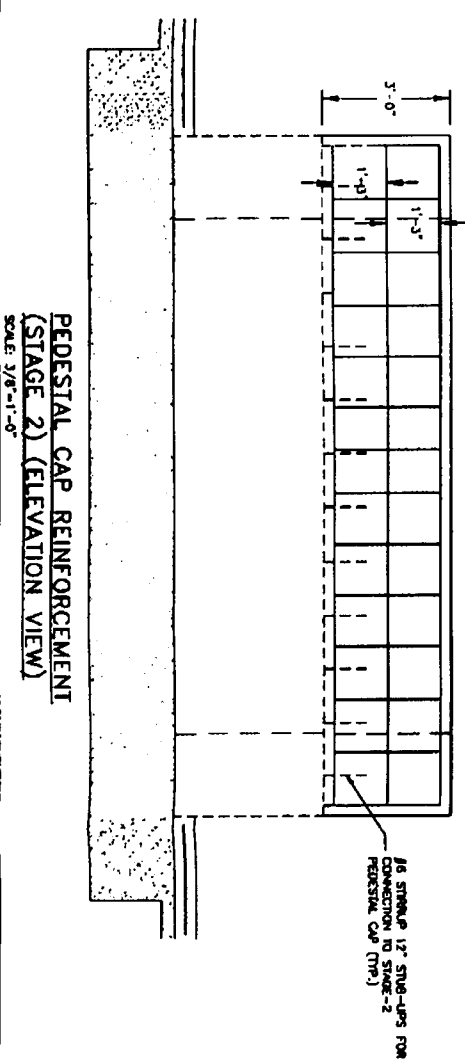
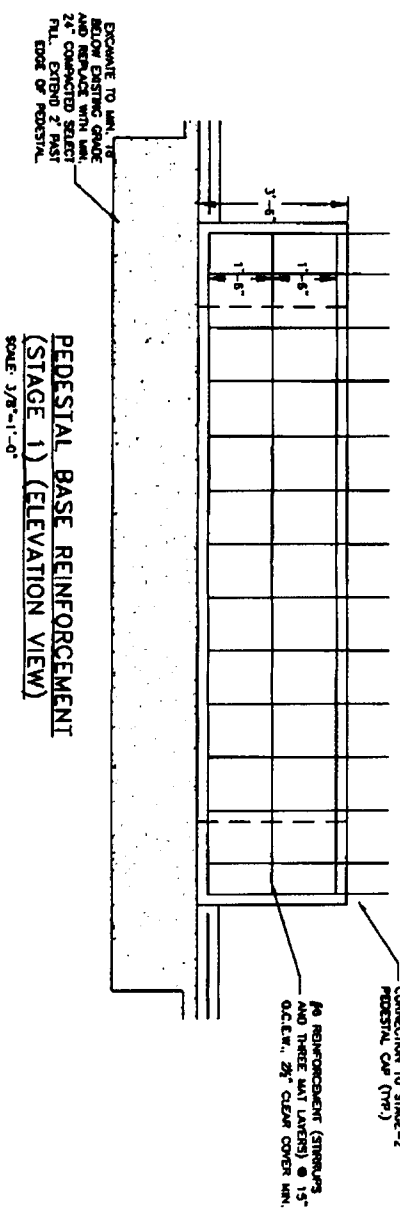
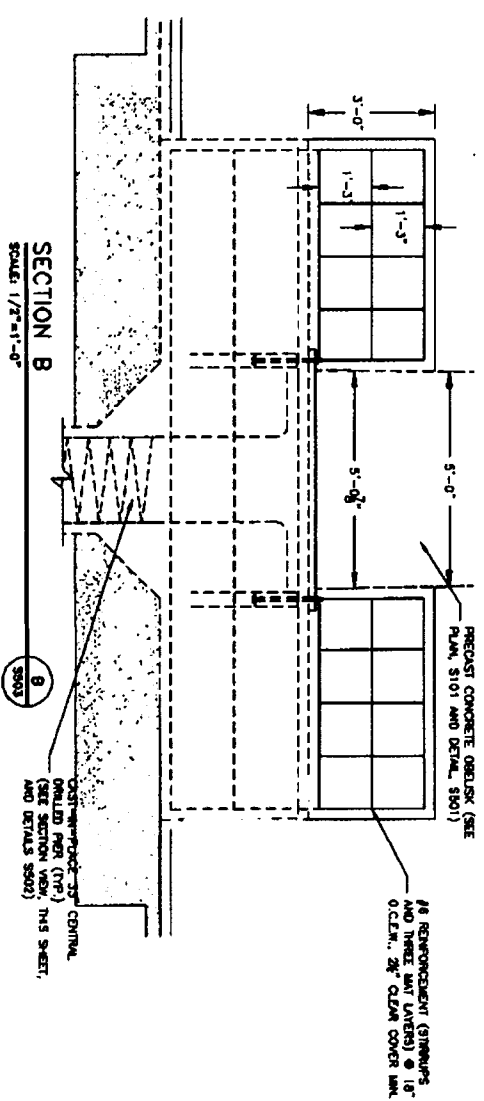
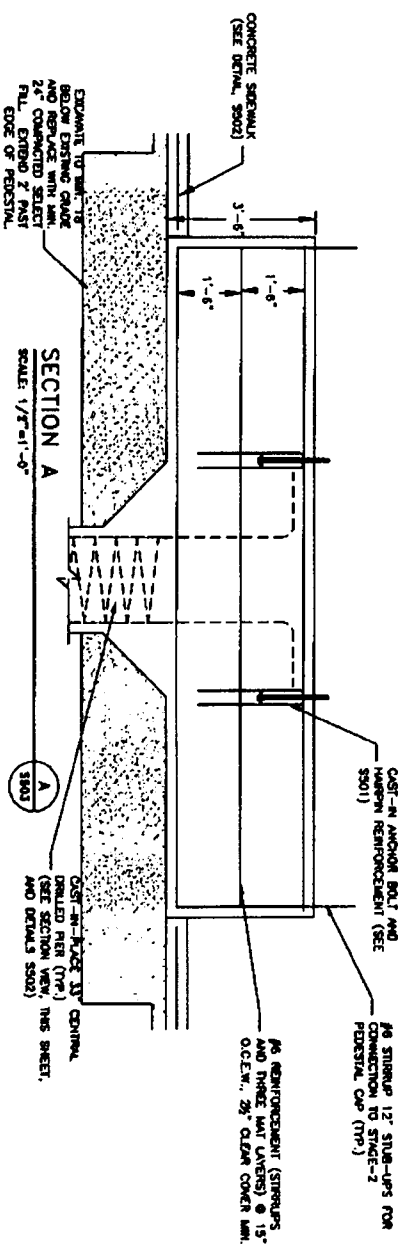
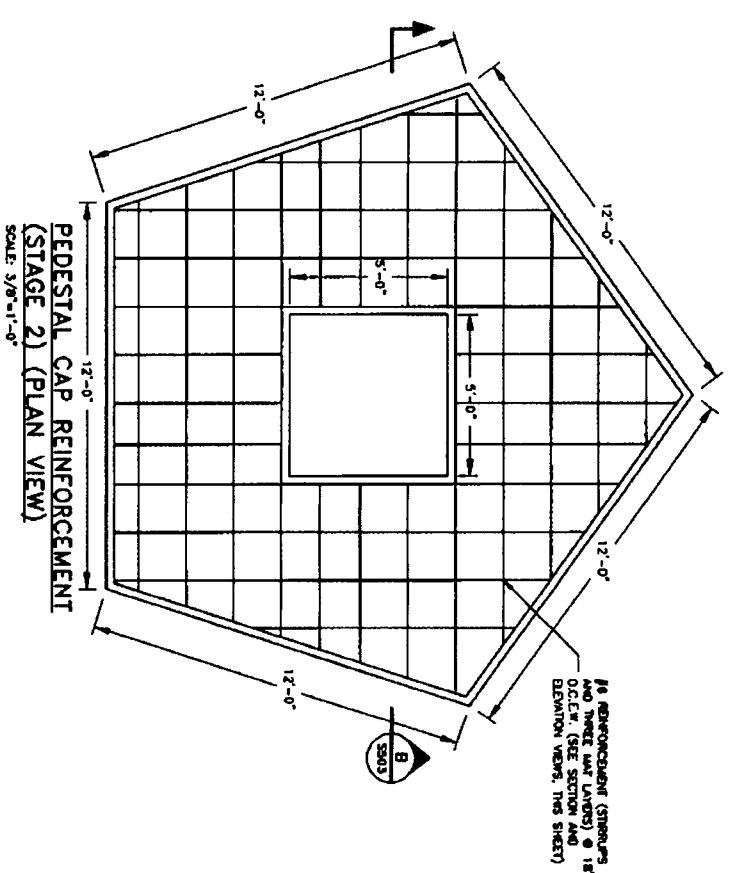
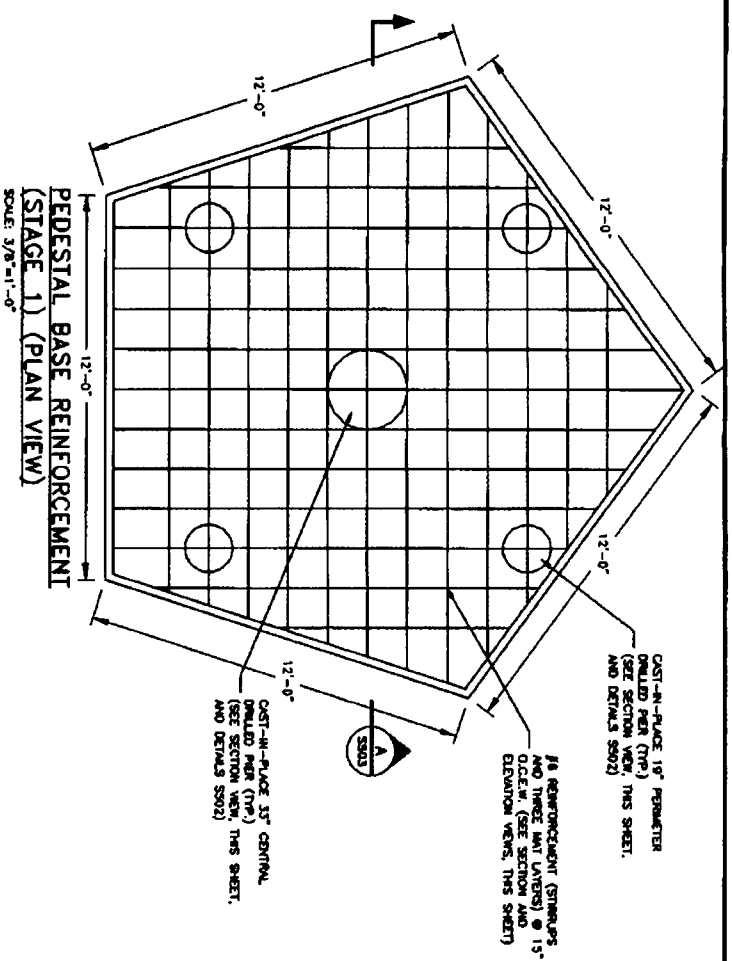
FREEDOM PARK OBELISK STRUCTURAL DETAILS					REVISION
SCALE AS SHOWN	LATEST DATE 07/30/13	SHEET ANSI D	PROJECT NUMBER	SHEET S501	B
NO.	REVISION	BY	DATE		
B	ISSUED FOR REVIEW	MD	07/30/13		
A	PRELIMINARY DESIGN	MD	04/30/13		



THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS THE PROPERTY OF HWY AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED WRITTEN CONSENT OF HWY TECHNOLOGIES.



FREEDOM PARK OBELISK STRUCTURAL DETAILS				REVISION
SCALE AS SHOWN	LATEST DATE 07/30/13	SHEET ANSI D	PROJECT NUMBER	S502
DRAWN CHECKED APPROVED SUB-CONSULTANT				B
NO. 07/30/13				
A PRELIMINARY DESIGN				
BY DATE				



						DRAWN MD							
						CHECKED MD							
						APPROVED MD							
						SUB-COMMITTEE MD							
B		ISSUED FOR REVIEW		MD		07/30/13							
A		PRELIMINARY DESIGN		MD		04/30/13							
NO.		REVISION		BY		DATE							

SCALE		LATEST DATE		SIZE		PROJECT NUMBER		SHEET		REVISION	
AS SHOWN		07/30/13		ANSI D				S503		B	