



REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

- ☒ Right of Way Permit
☐ Commercial Driveway Permit

Permit No: 2017-13044

Applicant: Burnside Services, Inc.

Job Location Site: 23500 Berry Parkway, Richmond, TX 77469

Bond No. 2017-13044 **Date of Bond:** 4/4/2017 **Amount:** \$5,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 25th day of April, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

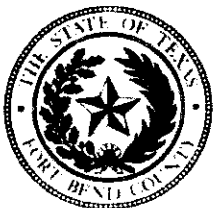
Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded 5-2-2017 Comm. Court No. 13H

By: Mark Taylor
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Aronda White
Deputy



**PERMIT APPLICATION REVIEW FORM FOR
CABLE, CONDUIT, AND POLE LINE ACTIVITY
IN FORT BEND COUNTY**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

- ☒ Right of Way Permit
☐ Commercial Driveway Permit

Permit No: 2017-13044

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- ☒ a. Name of road, street, and/or drainage ditch affected.
☒ b. Vicinity map showing course of directions
☒ c. Plans and specifications

(2) BOND:

- ☐ County Attorney, approval when applicable.
- ☐ Perpetual bond currently posted. Bond No: _____ Amount: _____
- ☒ Performance bond submitted. Bond No: [REDACTED] Amount: \$5,000.00
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Mark Veger
Drainage District Approval

4/19/17
Date

We have reviewed this project and agree it meets minimum requirements.

Charly O. Ay

Permit Administrator

4/17/17

Date

3N

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD,
COMMERCIAL DRIVEWAY AND MEDIAN OPENINGS OR MODIFICATIONS
(AUTHORIZED)**

BOND NO. [REDACTED]

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Burnside Services, Inc. whose (address, phone) is 1110 Navasota Ridge Rd., Navasota, TX, (936) 825-7090 Texas, hereinafter called the Principal, and Merchants Bonding Company (Mutual), a Corporation existing under and by virtue of the laws of the state of Iowa and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at (name/address/phone) P.O. Box 14498, Des Moines, IA 50306, (800) 878-8171, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Wilbert Raymond Watson and whose address is 5057 Keller Springs Rd., Suite 400, Addison, TX 75001, hereinafter called the Surety, and held and firmly bound unto Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand and 00/100s Dollars (\$ 5,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 4th day of April, 2017.



Burnside Services, Inc.

PRINCIPAL

Daye Burnside
BY

Merchants Bonding Company (Mutual)

SURETY

Ray Watson
BY Wilbert Raymond Watson, Attorney in Fact

MERCHANTS
BONDING COMPANY™
POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

**Andrea Rose Crawford; Carolyn J Goodenough; Debra Lee Moon; John William Newby;
Sammy Joe Mullis Jr; Sandra Lee Roney; Wilbert Raymond Watson**

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

TEN MILLION (\$10,000,000.00) DOLLARS

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 29th day of January, 2016.



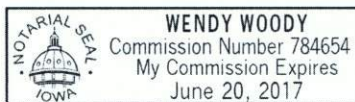
**MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.**

By *Larry Taylor*

President

STATE OF IOWA
COUNTY OF Dallas ss.

On this 29th day of January, 2016, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.



Wendy Woody
Notary Public, Polk County, Iowa

(Expiration of notary's commission
does not invalidate this instrument)

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 4th day of April, 2017.



William Warner Jr.
Secretary

MERCHANTS **BONDING COMPANY.**

MERCHANTS BONDING COMPANY (MUTUAL) • MERCHANTS NATIONAL BONDING, INC.
P.O. Box 14498, Des Moines IA 50306-3498 - (800) 678-8171 - (515) 243-3854 FAX

IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your insurance agent at the telephone number provided by your insurance agent.

You may call Merchants Bonding Company (Mutual) toll-free telephone number for information or to make a complaint at:

1-800-678-8171

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

You may write the Texas Department of Insurance at:

P. O. Box 149104
Austin, TX 78714-9104
Fax: (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM AND CLAIM DISPUTES: Should you have a dispute concerning your premium or about a claim you should contact the agent first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY: This notice is for information only and does not become a part or condition of the attached document.

SUP 0032 TX (5/12)



FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard

Laura Richard, County Clerk
Fort Bend County, Texas

May 01, 2017 03:45:01 PM

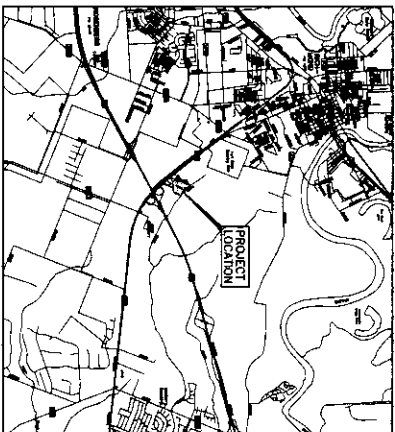
FEE: \$0.00 CR1
BOND

2017046620

PLANS FOR CONSTRUCTION OF PRIVATE SITE WORK TO SERVE



**23500 BERRY PKWY
FORT BEND COUNTY
RICHMOND, TEXAS 77469**
F.B.C.MUD. NO. 207
F.B.C.L.D. NO. 6



**RICHMOND, TEXAS
AREA MAP**

FORT BEND CO. KEY MAP # 805-R

GENERAL CONTRACTOR:

OWNER:

H&B GROCERY COMPANY, LP
646 SOUTH MAIN, SOUTH BLDG., 1ST FLOOR
ATLANTA, GA 30303
TEL: (404) 525-1000

ENGINEER:

TERMA ASSOCIATES, INC.
1448 N. LOOP WEST - SUITE 400
RICHMOND, TX 77469
TEL: (713) 983-0233
ATTN: LYLE E. HEMEL, P.E.

TAX NO.:

1577-1801

ADDRESS:

488 (RICHMOND) 17277
23500 BERRY PKWY
RICHMOND, TX 77469

PERMIT DATE:

DECEMBER 18, 2016

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C-1.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS		
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L-1.0	LANDSCAPE OVERALL		
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L-2.3	LANDSCAPE DETAILS		
L-3.1	IRRIGATION DETAILS		
L-4.1	IRRIGATION DETAILS		

CITY OF RICHMOND
APPROVED: [Signature]
DATE: 12/18/16

TERMA ASSOCIATES, INC.
1448 N. LOOP WEST - SUITE 400
RICHMOND, TX 77469
TEL: (713) 983-0233
ATTN: LYLE E. HEMEL, P.E.

TERMA
1448 N. LOOP WEST - SUITE 400
RICHMOND, TX 77469
TEL: (713) 983-0233
ATTN: LYLE E. HEMEL, P.E.

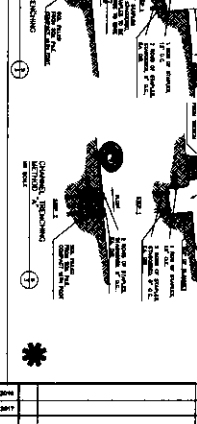
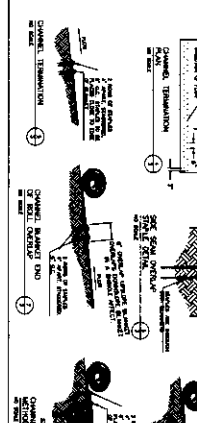
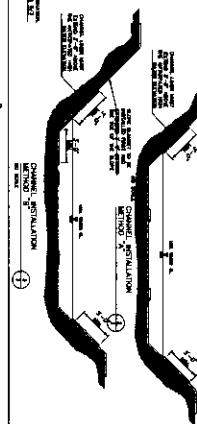
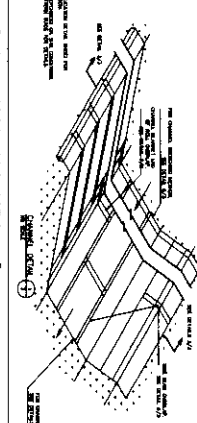
NOT TO SCALE
RICHMOND, TEXAS
FORT BEND CO. KEY MAP # 805-R

COVER SHEET
H.E.B. Corp. #727
23500 BERRY PKWY
RICHMOND, TX 77469



NO.	DATE	REVISION
1	12/18/16	ISSUED FOR PERMIT
2	02/19/17	REVISED CITY COMMENTS

CURLEX DETAILS ARE FROM THE MANUFACTURER AND ARE FOR REFERENCE ONLY.

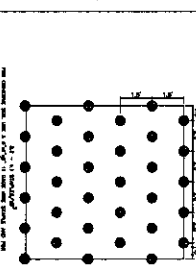
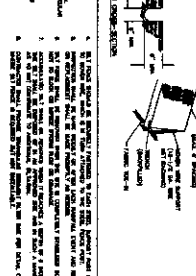
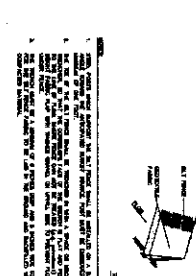
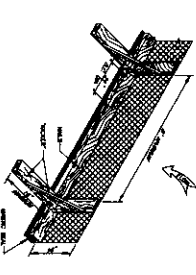


E1 CURLEX BLANKET/SOIL PROTECTION [SHOULD BE USED IN CONJUNCTION WITH CURLEX CHANNELS]

D2 NOT USED

D3 SILT FENCE ON PAVEMENT DETAIL

D4 SILT FENCE

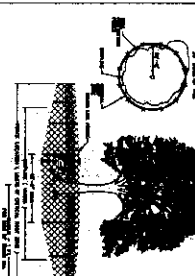
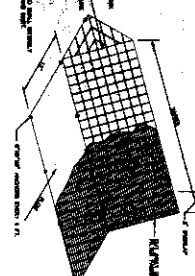
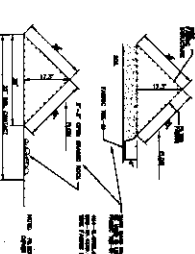


D2 NOT USED

D3 SILT FENCE ON PAVEMENT DETAIL

D4 SILT FENCE

D6 CURLEX STAPLE PATTERN



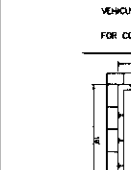
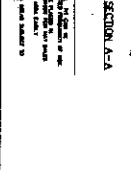
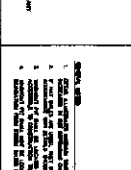
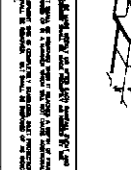
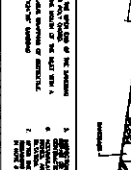
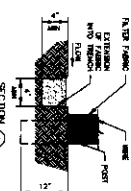
C1 TPOOT CONSTRUCTION ENTRANCE EXHIBIT

C2 NOT USED

C3 TRIANGULAR SEDIMENT FILTER DIKE

C5 TREE PROTECTION

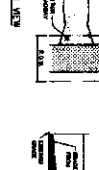
C6 ROCK BERM



NOTES

B3 INLET PROTECTION FOR CURB INLET

B5 CONCRETE TRUCK WASHOUT PIT



3-10-10

PLAN VIEW

PROFILE

SECTION A-A

VEHICULAR ACCESS FOR CONSTRUCTION

DATE: 4/23/17

STORM WATER POLLUTION PREVENTION PLAN DETAILS

H.E.B. Corp. #727
3300 HUNTER STREET
RICHMOND, TX 77406



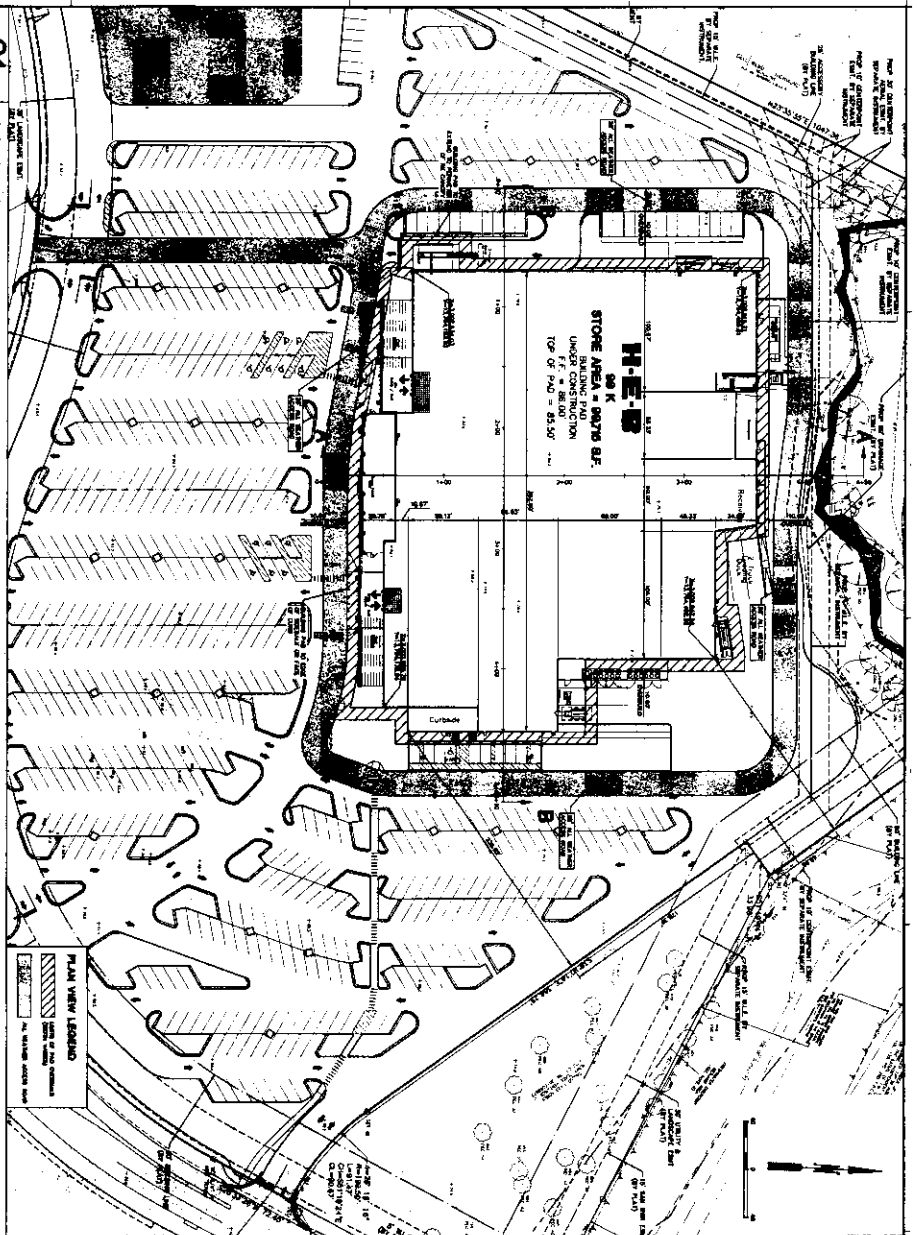
TERMA

1445 N. LOOP WEST
SUITE 400
HOUSTON, TEXAS 77028
713.865.1111
www.terma.com

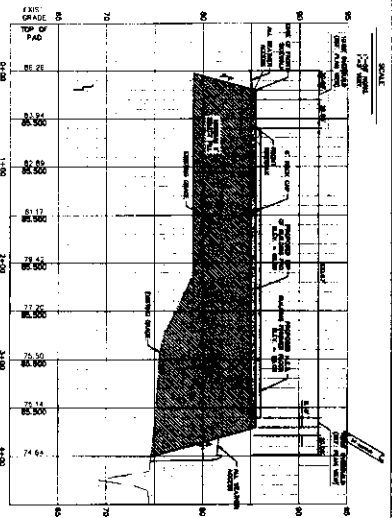


DATE:	12/10/2016
BY:	12/10/2016
REVISIONS:	
NO.	DESCRIPTION
1	REVISION

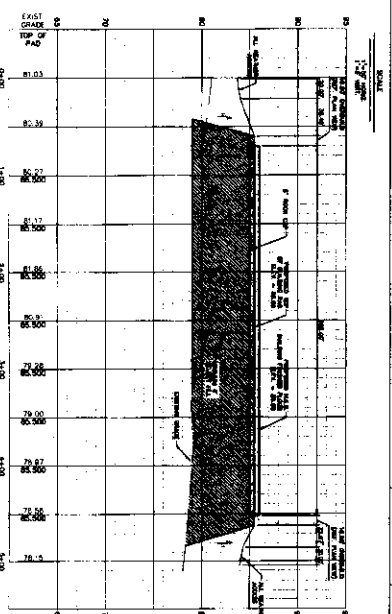




C1 PAD PREPARATION PLAN

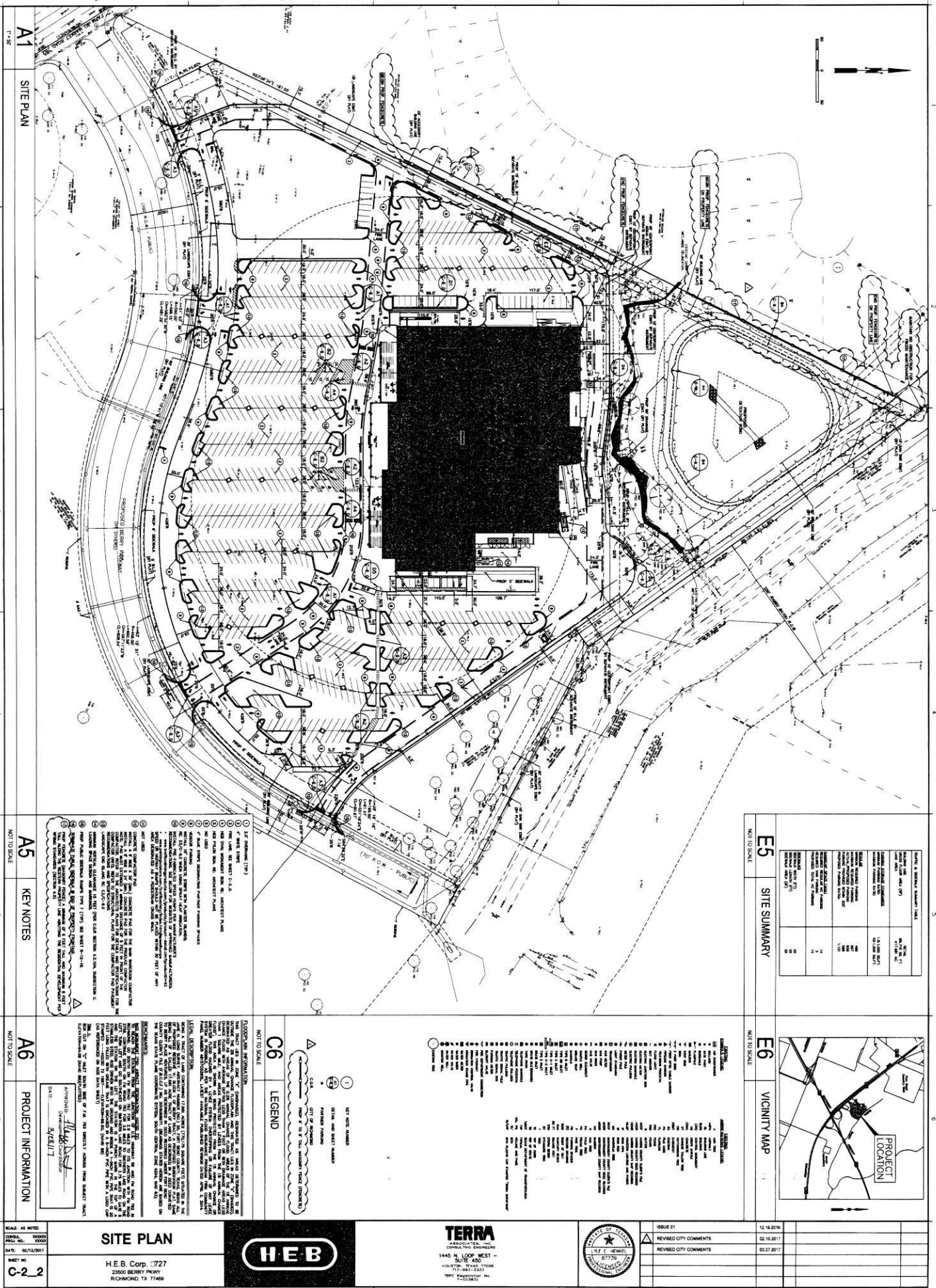


A1 CROSS SECTION A-A



A3 CROSS SECTION B-B

NOTES 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION. 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR EROSION CONTROL. 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR FLOOD CONTROL. 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR LANDSCAPE ARCHITECTURE. 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR UTILITIES. 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR STRUCTURES. 8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR MATERIALS. 9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR TESTING. 10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR SAFETY.	E6 VICINITY MAP
E5 NOTES AND SPECIFICATIONS	D6 GROUND BEHIND FIRE PREVENTION DETAIL
D5 DEEP UTILITY TRENCH WATER FLOW DETAIL	C6 PAD DESIGN
C5 BUILDING PAD	B6 NOT USED



A1
SITE PLAN

A5
KEY NOTES

1. SEE DRAWING (TYP)
2. SEE SHEET C-2.1
3. SEE SHEET C-2.1
4. SEE SHEET C-2.1
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A6
PROJECT INFORMATION

PROJECT INFORMATION

PROJECT NAME: HEB ROBINSON CENTER

PROJECT ADDRESS: 1445 N. LOOP WEST, SUITE 400, HOUSTON, TEXAS 77006

PROJECT OWNER: HEB CORP.

PROJECT ARCHITECT: JARVIS BOARD CONTRACTORS

PROJECT ENGINEER: TERRA ASSOCIATES, INC.

PROJECT DATE: 07/2017

PROJECT SHEET: C-2.2

C6
LEGEND

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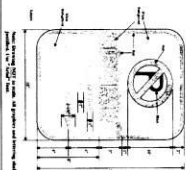
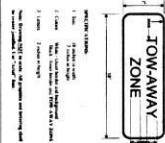
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E5
SITE SUMMARY

PROJECT NAME	HEB ROBINSON CENTER
PROJECT ADDRESS	1445 N. LOOP WEST, SUITE 400, HOUSTON, TEXAS 77006
PROJECT OWNER	HEB CORP.
PROJECT ARCHITECT	JARVIS BOARD CONTRACTORS
PROJECT ENGINEER	TERRA ASSOCIATES, INC.
PROJECT DATE	07/2017
PROJECT SHEET	C-2.2

E6
VICINITY MAP



[illegible]

A5	PAVING NOTES & KEY NOTES
NOT TO SCALE	

A6	PROJECT INFORMATION
NOT TO SCALE	

SCALE: AS NOTED
CONSD. PROJ. NO.:
DATE: 02/13/20
SHEET NO.
C-3

**PAVING PLAN -
CONCRETE**

H.E.B. Corp. #727
23500 BERRY PKWY
RICHMOND, TX 77480



TERRA
ASSOCIATES, INC.
CONSULTING ENGINEERS
1445 N. LOOP WEST -
SUITE 450
HOUSTON, TEXAS 77008
713-866-0333
TYPE Registration No.:
F-503832



	ISSUE 01
	REVISED CITY COMMENTS



E6	VICINITY MAP
NOT TO SCALE	

	12.18.2

02 10.2	

C6	LEGEND
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H

5" CONCRETE PARAPET FOR PARAPETS
FIELD NO. C3/C-4.2

6" CONCRETE PARAPET FOR
DOWNS NO. C3/C-4.2

7" CONCRETE PARAPET FOR BRICK
BELLEVUE PARKS NO. C3/C-4.2

FIG. 14-10

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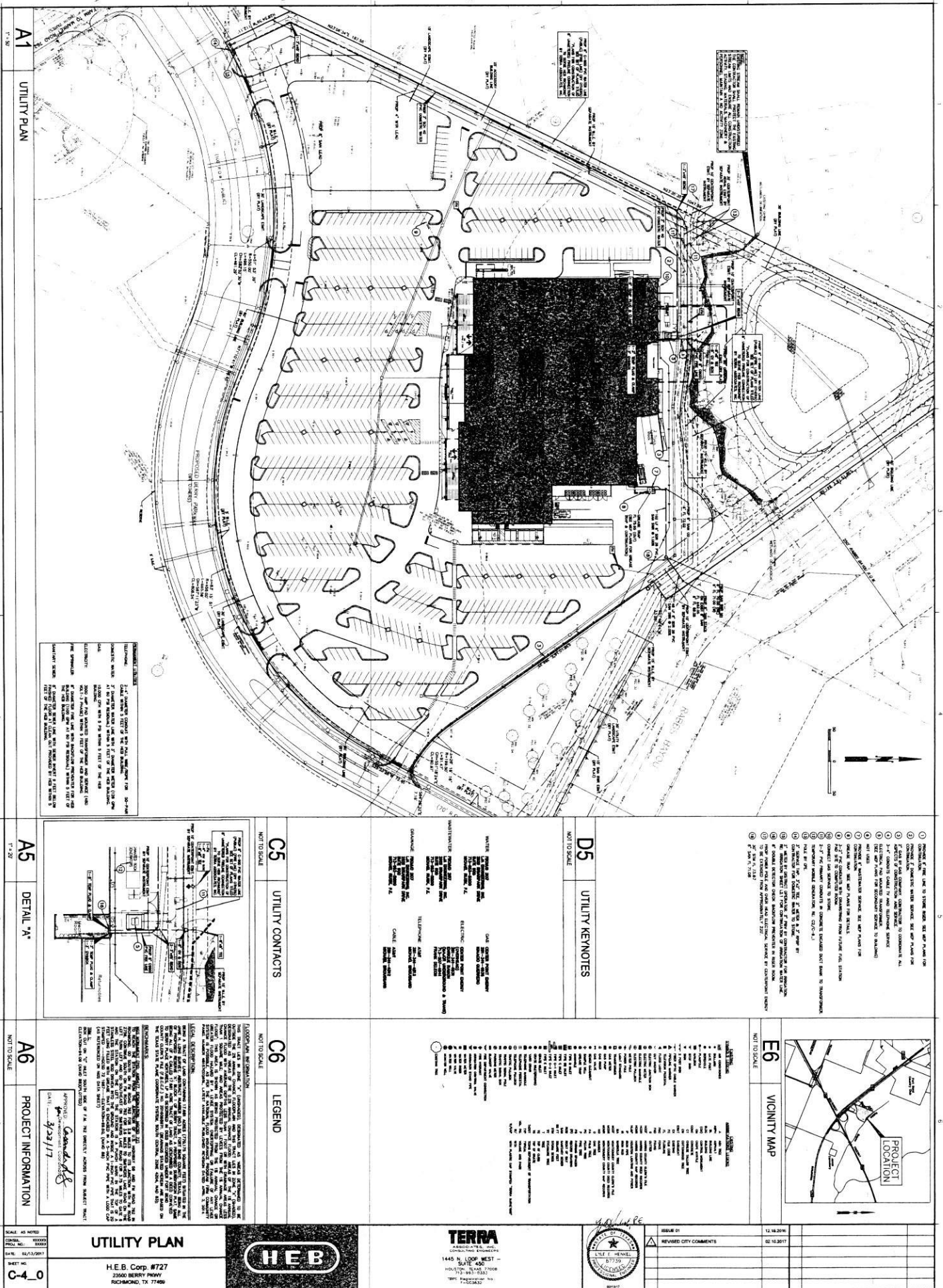
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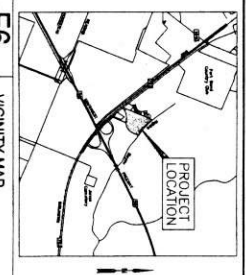
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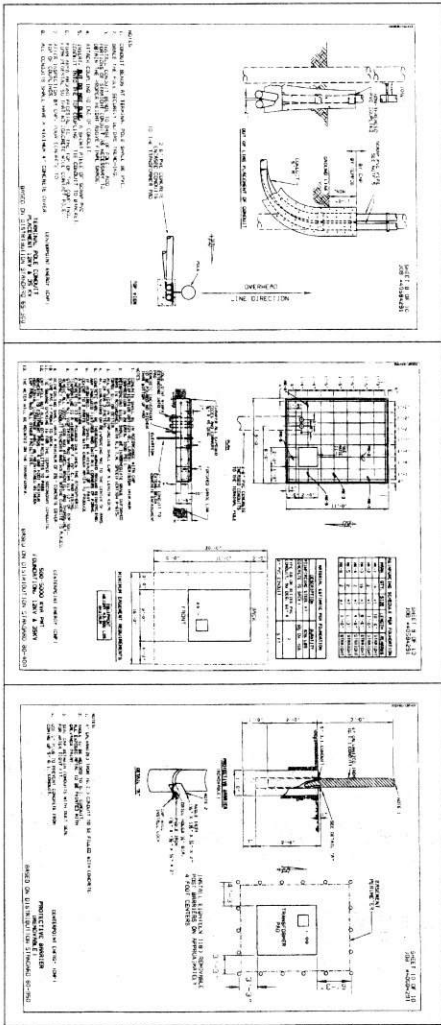
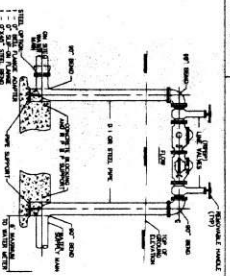
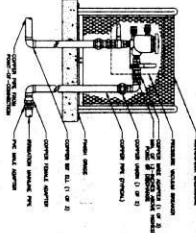


[illegible]

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E1 NOT USED		E3 END ISLAND	E4 REFLECTIVE MARKER	E5 IRRIGATION PROTECTION	E6 NOT USED
D1 WHEEL STOP DETAIL		D3 PRIVATE SITE SIDEWALK	D5 PEDESTRIAN RAMP/SIDEWALK	C6 NOT USED	C3 PAVEMENT SECTIONS
B1 FIXED SIGN	B2 HANDICAP SIGN W/ BOLLARD PROTECTION	B3 NOT USED	B4 NOT USED	B5 PAVEMENT JOINTS	A6 PARTNER PARKING
A1 TRAFFIC FLOW ARROW	A2 ACCESS ROUTE CROSSWALK	A3 STOP BAR	A4 STIPING FOR 80' ACCESSIBLE PARKING	C3 PAVEMENT SECTIONS	C6 NOT USED

D1 TYPICAL CONSTRUCTION JOINT NOT TO SCALE SECTION AA SECTION BB	D2 CLEANING & SEALING JOINTS EXISTING CONCRETE NOT TO SCALE	D3 JOINT SEALANT FOR EXPANSION JOINT AND CONSTRUCTION JOINT NOT TO SCALE	E4 NOT USED NOT TO SCALE	D5 FORT BEND COUNTY SIDEWALKS & DRIVEWAYS ON CURB TYPE STREETS COMMERCIAL AREA NOT TO SCALE	B6 POST AND CABLE NOT TO SCALE
D1 TYPICAL CONSTRUCTION JOINT NOT TO SCALE SECTION AA SECTION BB	D2 CLEANING & SEALING JOINTS EXISTING CONCRETE NOT TO SCALE	D3 JOINT SEALANT FOR EXPANSION JOINT AND CONSTRUCTION JOINT NOT TO SCALE	D4 GUARDRAIL NOT TO SCALE	D5 FORT BEND COUNTY SIDEWALKS & DRIVEWAYS ON CURB TYPE STREETS COMMERCIAL AREA NOT TO SCALE	B6 POST AND CABLE NOT TO SCALE
B1 SPEED TABLE DETAIL NOT TO SCALE	C2 TEMPORARY MOBILE GENERATOR DETAIL NOT TO SCALE	C4 NOT USED NOT TO SCALE	C5 6" PRIVACY FENCE NOT TO SCALE	B4 4" CHAIN-LINK FENCE NOT TO SCALE	B6 POST AND CABLE NOT TO SCALE
A1 NOT USED NOT TO SCALE	A2 PHARMACY DRIVE SCALE 1"=20'	A4 CHAIN-LINK FENCE GATE NOT TO SCALE	C4 NOT USED NOT TO SCALE	B4 4" CHAIN-LINK FENCE NOT TO SCALE	B6 POST AND CABLE NOT TO SCALE

D1		D5		E5	
TRANSFORMER PAD DETAILS		NOT USED		NOT USED	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	
					
C1 SAMPLE WELL NOT TO SCALE		C3 TRENCH SHEET PILE W/GEOMEMBRANE NOT TO SCALE		C5 REDUCED PRESSURE BACKFLOW PREVENTER NOT TO SCALE	
C2 NOT USED NOT TO SCALE		C4 NOT USED NOT TO SCALE		B6 PRESSURE VACUUM BREAKER NOT TO SCALE	
A1 NOT USED NOT TO SCALE		A3 NOT USED NOT TO SCALE		A5 NOT USED NOT TO SCALE	
A2 NOT USED NOT TO SCALE		B3 NOT USED NOT TO SCALE		A6 NOT USED NOT TO SCALE	
A4 NOT USED NOT TO SCALE		B4 NOT USED NOT TO SCALE		A6 NOT USED NOT TO SCALE	

UTILITY PLAN DETAILS

HEB, Corp. #727
2300 BERRY PARKWAY
RICHMOND, TX 77469



TERRA
1445 N. LOOM WEST -
SUITE 400
HOUSTON, TEXAS 77057
TEL: 281-533-1330
FAX: 281-533-1331



ISSUE 01
REVISED CITY COMMENTS

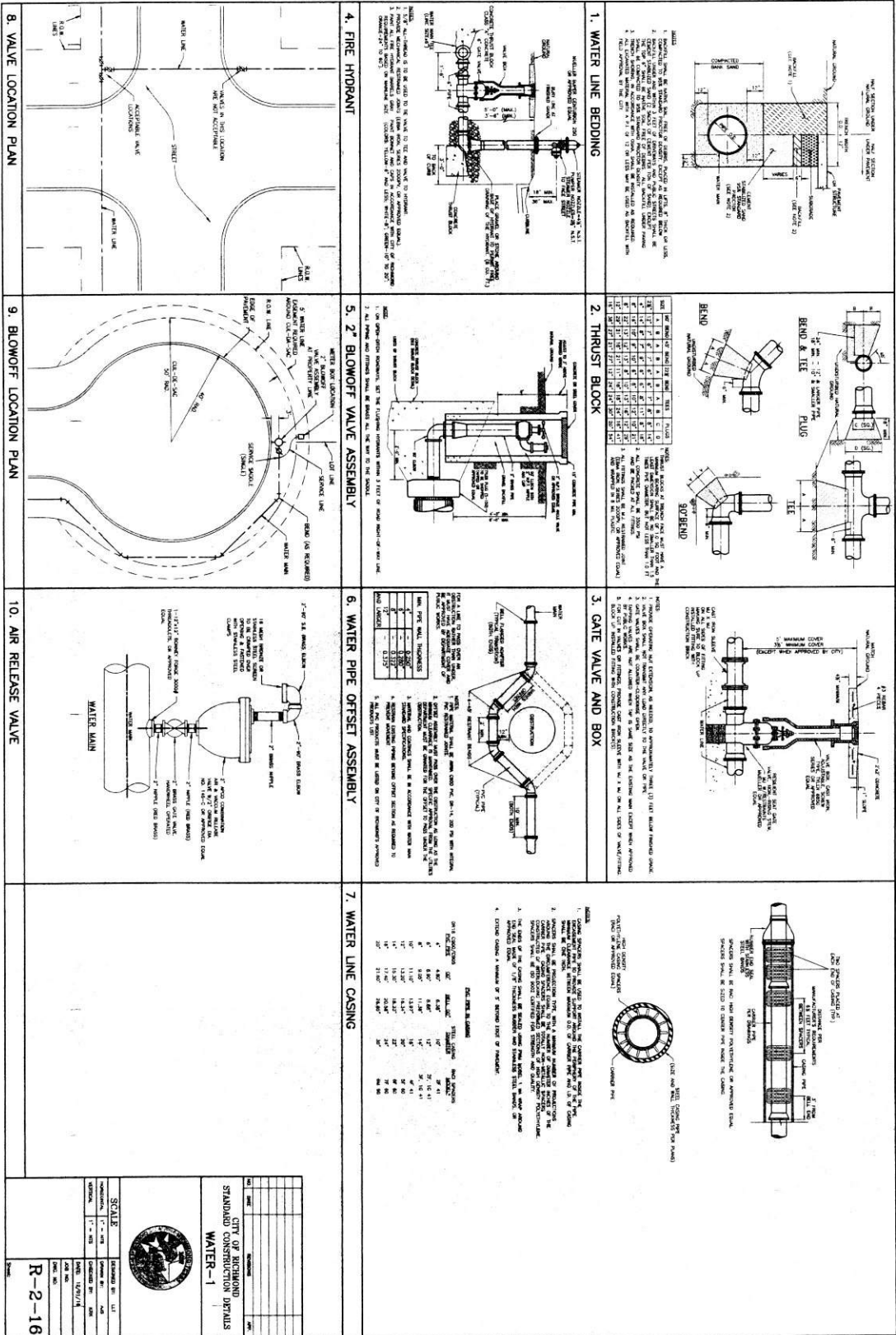
12/18/2016
03/10/2017

SCALE: AS SHOWN
DATE: 02/03/2017
SHEET NO: C-6_3

APPROVED:
DATE: 5/23/17

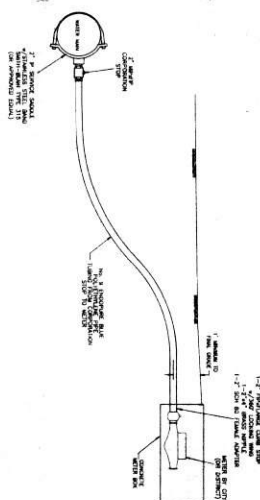
A1
CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS WATER-1

NOT TO SCALE

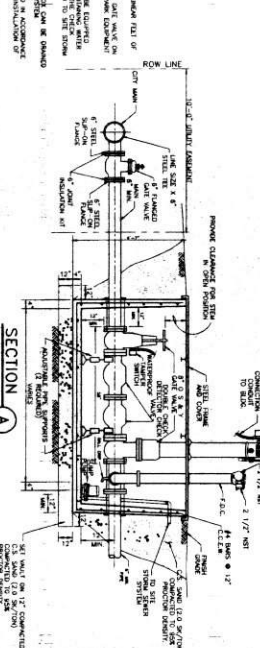


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CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS WATER-2

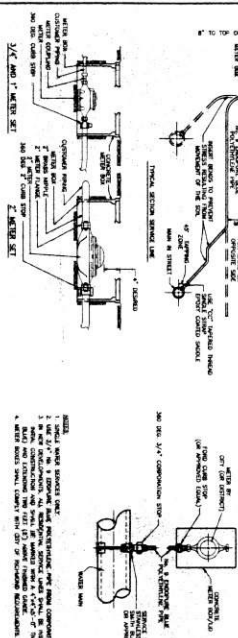
5. 2" WATER SERVICE CONNECTION



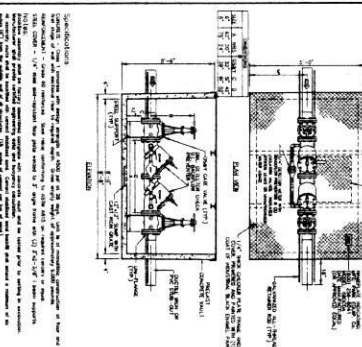
6. TYPICAL FIRE SERVICE METER



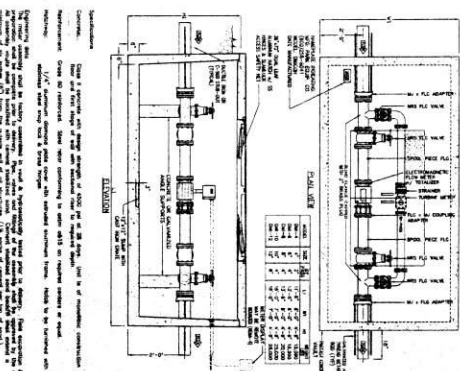
4. RESIDENTIAL WATER METER AND SERVICE LINE



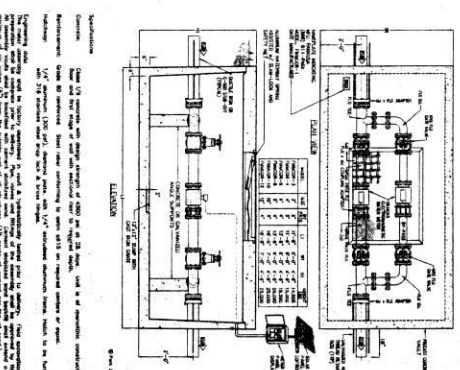
1. DOUBLE CHECK DETECTOR ASSEMBLY



2. ELECTROMAGNETIC WATER METER WITH METERED BY-PASS



3. FIRE/DOMESTIC WATER METER ASSEMBLY 3" THRU 12"



APPROVED: *Michael A. Jenkins*
DATE: 3/23/17

CITY OF RICHMOND STANDARD
CONSTRUCTION DETAILS WATER-2
R-3-16

H.E.B. Corp. #727
23000 BERRY POND
RICHMOND, TX 77469



TERRA
1481 N. LOOP WEST
SUITE 450
HOUSTON, TEXAS 77058
713-961-0353
TERRA ASSOCIATES, INC.

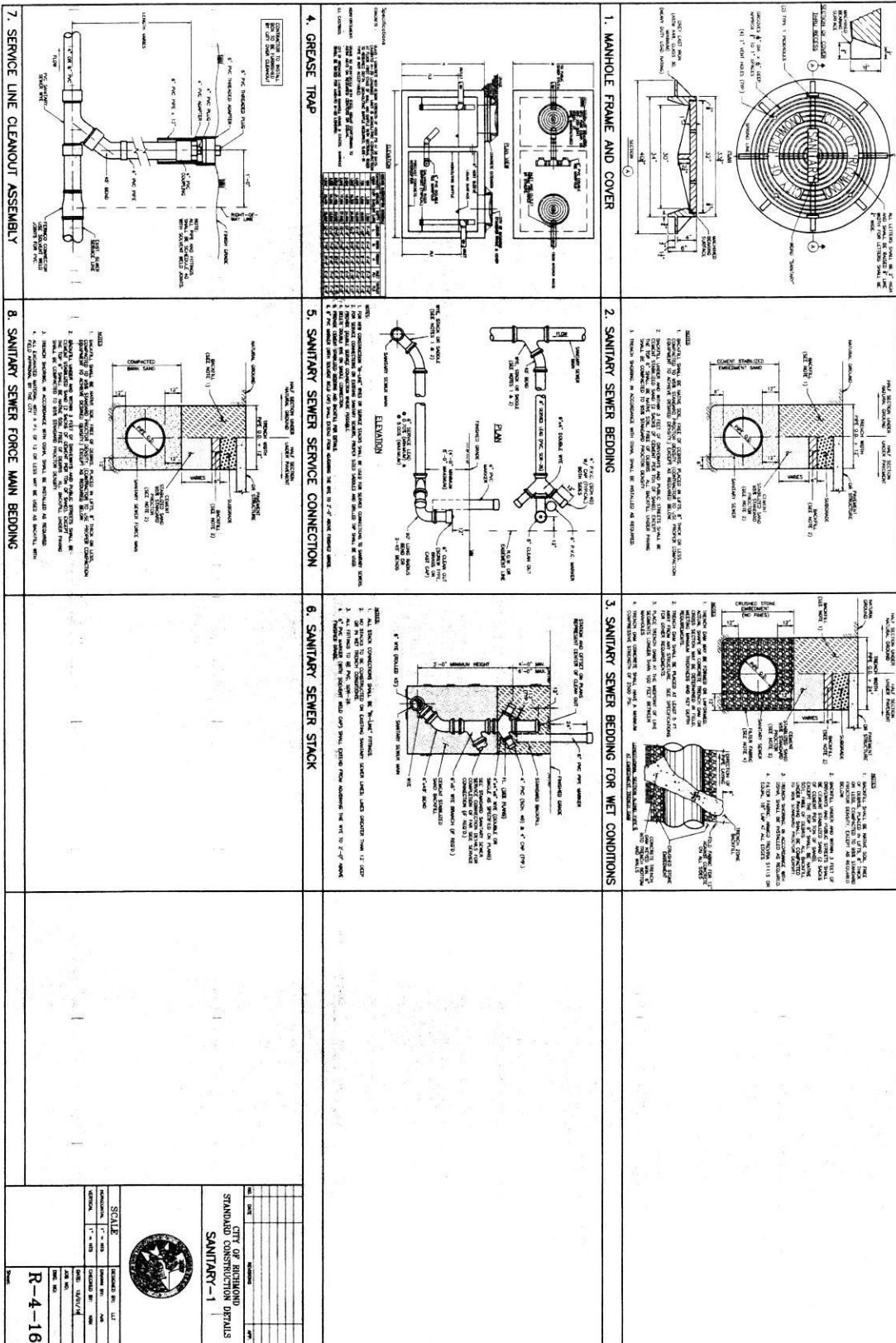
12.15.2016
02.15.2017



REVISIONS
REVISION NO. REVISION DESCRIPTION

A1
NOT TO SCALE

CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS SANITARY-1



A1
NOT TO SCALE

CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS SANITARY-2

1. PRECAST SANITARY MANHOLE

2. SANITARY SEWER MANHOLE

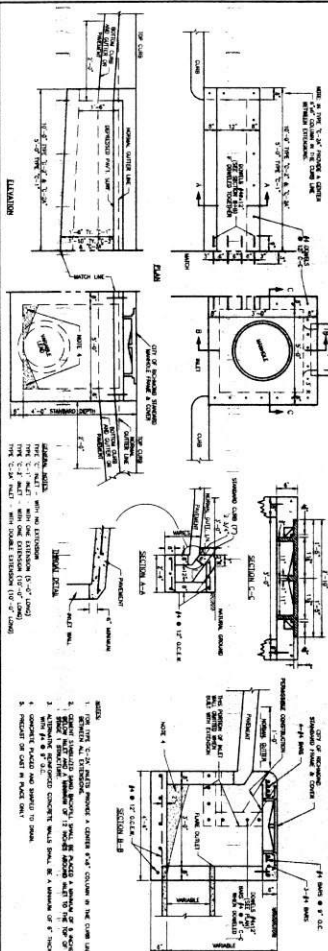
3. AIR RELEASE VALVE

4. SEWERAGE AIR RELEASE VALVE MANHOLE

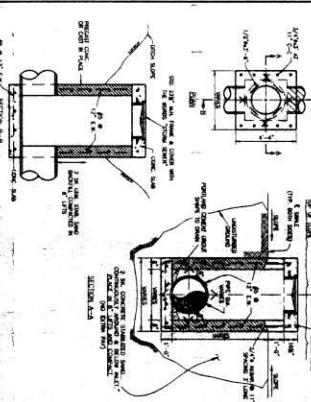
5. AIR RELEASE VALVE

6. SEWERAGE AIR RELEASE VALVE MANHOLE

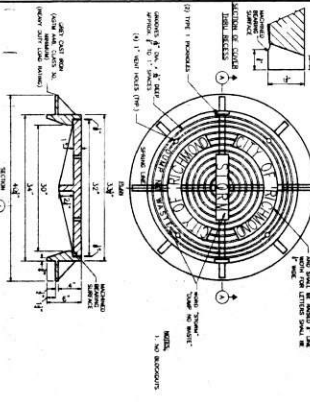
6. TYPE 'C' INLET



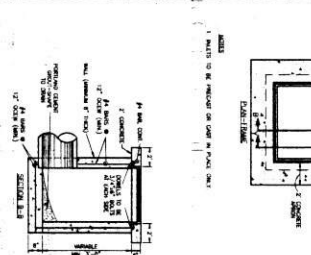
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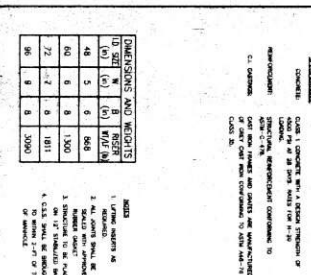
1. MANHOLE AND INLET FRAME AND COVER



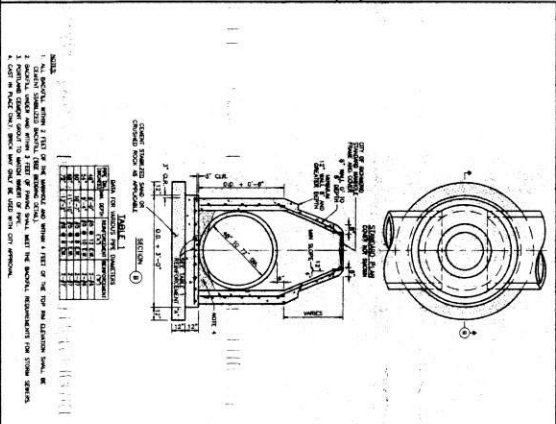
3. TYPE 'A' INLET



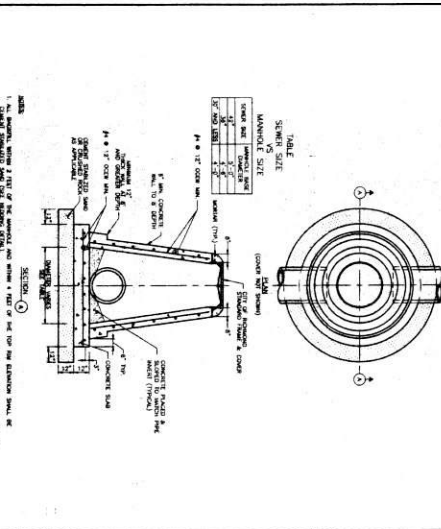
4. PRECAST CONCRETE MANHOLE



7. TYPE "C" MANHOLE FOR 48" TO 72" DIA. R.C.P.



5. MANHOLE TYPE "C" FOR 42" DIA. R.C.P. AND SMALLER



DIMENSIONS AND WEIGHTS				
LD SIZE	N	B	RISER	
(in)	(in)	(in)	W/AE	(lb)
48	5	6	868	
60	6	8	1,300	
72	7	8	1,611	
96	9	8	3,090	

SCREEN SIZE	INTERNAL BORE CHARACTER
4 1/2"	3'-0"
36"	4'-8"
30" AND LARGER	4'-0"

APPROVED: *Candy*
for Disposition and Code by
DATE: 3/23/17

CITY OF RICHMOND STANDARD
CONSTRUCTION DETAILS STORM SEWER

H.E.B. Corp. #72
23500 BERRY PKWY

HEB

TERRA
ASSOCIATES, INC.
CONSULTING ENGINEERS
1445 N. LOOP WEST -
SUITE 400
HOUSTON, TEXAS 77008
713-463-0333
TERRA Associates, Inc.

	ISSUE 01
	REVISED CITY COMMENTS

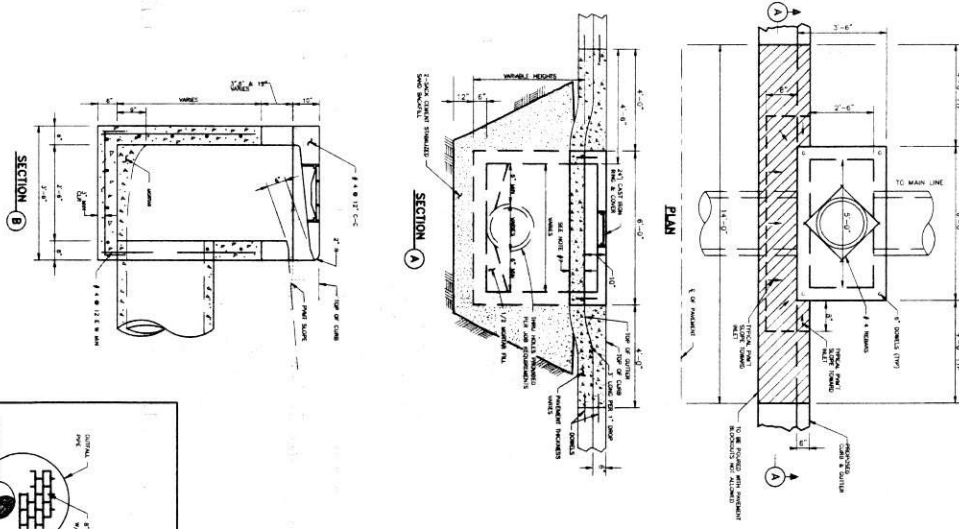
12.19.2011

08.10.2017

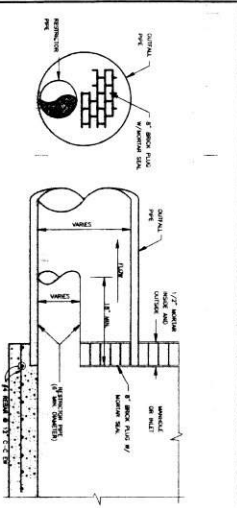
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CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS STORM SEWER-2

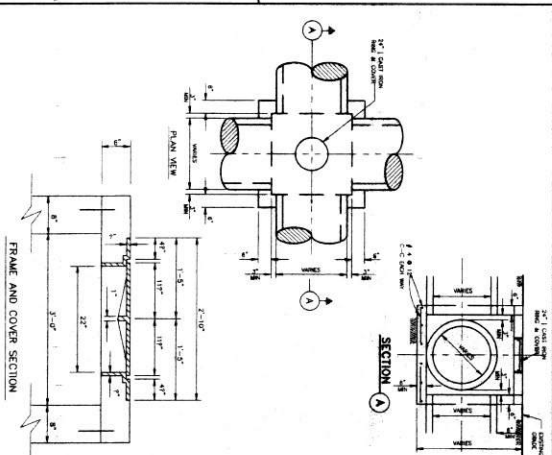
1. TYPE "H-2" PRECAST INLET



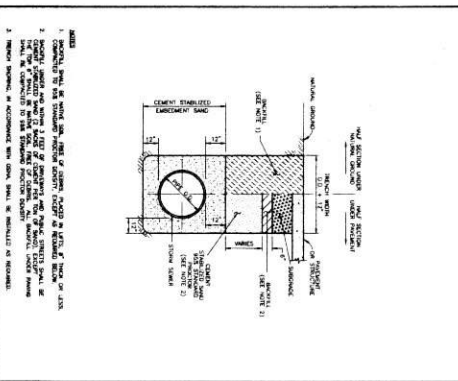
2. STORM SEWER CHOKE OUTFALL RESTRICTOR



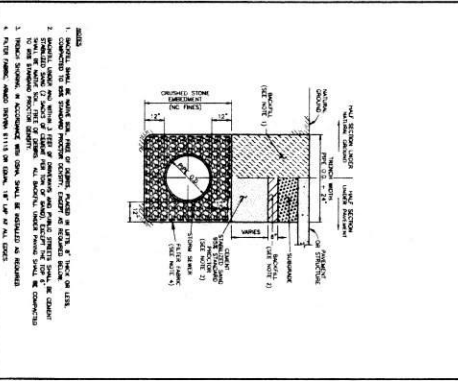
5. JUNCTION BOX



3. STORM SEWER BEDDING



4. STORM SEWER BEDDING FOR WET CONDITIONS



CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS STORM SEWER-2	
NO.	REVISION
1	AS NOTED

SCALE: 1" = 4'-0"
DATE: 12/13/2017
R-7-16

A1

CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS STORM SEWER-3

R-8-16

APPROVED: *Michael A. Jordan*
DATE: 3/23/17

1. MANHOLE FOR BOX SEWER

SECTION (C)

2. CONCRETE COLLAR CONNECTION

3. SLOPED END TREATMENT

4. REINFORCED CONCRETE BOX BEDDING DETAIL

MANHOLE SIZE	MANHOLE DEPTH	MANHOLE WALL THICKNESS	MANHOLE FLANGE THICKNESS	MANHOLE FLANGE WIDTH	MANHOLE FLANGE DIAMETER	MANHOLE FLANGE RADIUS	MANHOLE FLANGE SLOPE	MANHOLE FLANGE SLOPE ANGLE	MANHOLE FLANGE SLOPE ANGLE DEGREE	MANHOLE FLANGE SLOPE ANGLE RADIANS	MANHOLE FLANGE SLOPE ANGLE DEGREE MINUTES	MANHOLE FLANGE SLOPE ANGLE DEGREE SECONDS	MANHOLE FLANGE SLOPE ANGLE DEGREE THIRDS	MANHOLE FLANGE SLOPE ANGLE DEGREE FOURTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE FIFTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE SIXTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE SEVENTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE EIGHTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE NINTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE TENTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE ELEVENTHS	MANHOLE FLANGE SLOPE ANGLE DEGREE TWELFTHS
36"	4'	12"	12"	12"	36"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

LEGEND

1. 36" CONCRETE COLLAR CONNECTION

2. 36" CONCRETE COLLAR CONNECTION

3. 36" CONCRETE COLLAR CONNECTION

4. 36" CONCRETE COLLAR CONNECTION

5. 36" CONCRETE COLLAR CONNECTION

6. 36" CONCRETE COLLAR CONNECTION

7. 36" CONCRETE COLLAR CONNECTION

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12. 36" CONCRETE COLLAR CONNECTION

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99. 36" CONCRETE COLLAR CONNECTION

100. 36" CONCRETE COLLAR CONNECTION

CITY OF RICHMOND STANDARD
CONSTRUCTION DETAILS STORM SEWER-3

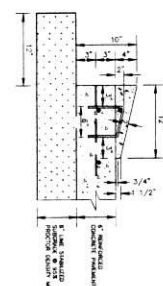
H.E.B. Corp. #727
23000 BERRY POND
RICHMOND, TX 77466



TERRA
ASSOCIATES, INC.
1445 N. LOOP WEST
SUITE 450
HOUSTON, TX 77028
713-463-0353
TERRA@TERRA-INC.COM
TERRA-INC.COM

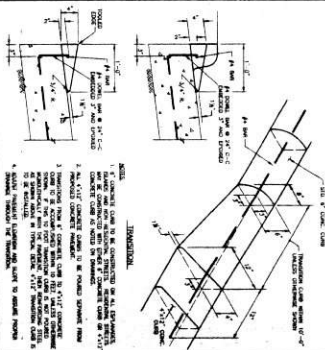


ISSUE NO.	REVISIONS	DATE
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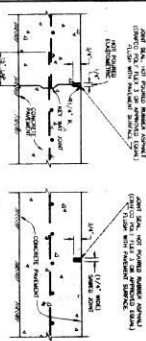


- 1) A) No-bar singlets to be placed at intervals of 7" (1) C-C
 - 2) A) No-bar longitudinal shall be tied to each stirrup
 - 3) Unfinished curb only allowed on S. 41" (71) Unfinished
- RESIDUAL ROADWAYS WITH SUBDIVISIONS.

1. 4"X12" MOUNTABLE CONCRETE CURB



5. 4"x12" TRANSITION CURB



CONSTRUCTION

SAVED

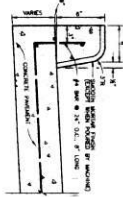
9. PAVEMENT JOINTS

4"x12" MOUNTABLE CONCRETE CURB AND
TRANSITION CURB NOTES:

1. 6-INCH CONCRETE CHAIR TO BE CONSTRUCTED ON ALL SPRAUCELINES, ISLANDS AND NON-RESIDENTIAL STREETS. RESIDENTIAL STREETS MAY BE CONSTRUCTED USING EITHER 6-INCH CONCRETE CHAIR OR 4-INCH x 12-INCH CONCRETE CHAIR AS SHOWN IN PLAN.
2. 4-INCH x 12-INCH CONCRETE CHAIRS TO BE POURED SEPARATE FROM ASSOCIATED CURB OR PAVEMENT.
3. THUNDERBOLT FROM 6-INCH CONCRETE CHAIR TO 4-INCH x 12-INCH CONCRETE CHAIR TO BE ASSIGNED WITH 3 FEET (1M) LANCELL OVERLAP SHOWN. REINFORCING STEEL AS SHOWN IN 4-INCH x 12-INCH THUNDERBOLT CHAIR DETAIL IS TO BE INSTALLED.

[illegible]

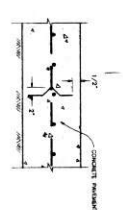
2. 4"x12" TRANSITION CURB



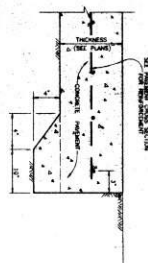
6. CONCRETE CURB

1. MODIFIED AND RECONSTRUCTED WITH CONCRETE PLACED IN A RECTANGULAR CONCRETE SPILL, 1989. SOURCE: CANTON CONCRETE.
2. WITH CONCRETE CURB IS TO BE PLACED ON EXISTING CONCRETE BASE, USE 4" REINFORCED BARS AT 18" O.C., DOWELS, AND SET IN QUICK SETTING GROUT ABOUT.
3. REQUIRED EXPANSION JOINTS SHALL BE INSTALLED AT ALL PRESENT CURVISION JOINTS.

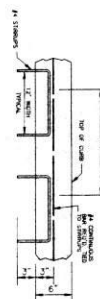
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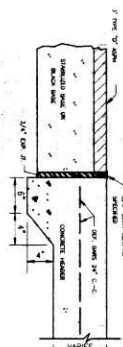
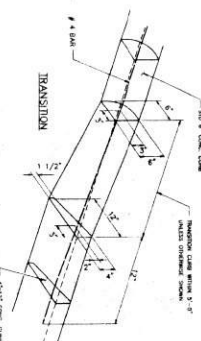
10. DEFORMED METAL STRIPS



3. TYPICAL CONCRETE CURB REINFORCING



4. TYPICAL CURB TRANSITION



8. PAVEMENT HEADER FOR CONNECTING CONCRETE TO ASPHALT	
1	PAVEMENT HEADER FOR CONNECTING CONCRETE TO ASPHALT



12. PAVEMENT UNDERCUT



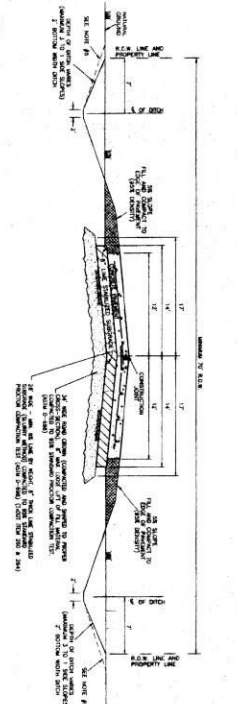
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R-9-10

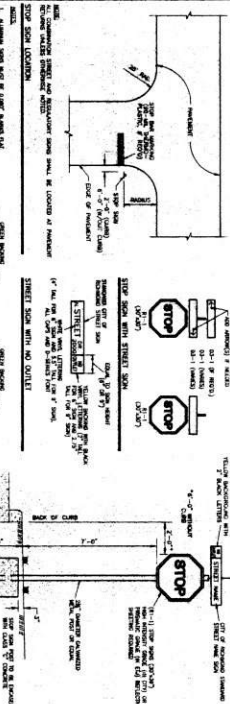
APPROVED: *Cassandra S*
for Development Coordinator
DATE: *3/23/17*

2. STANDARD CONCRETE PAVEMENT WITH OPEN DITCH CROSS-SECTION



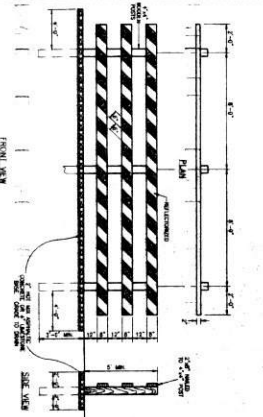
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4. TRAFFIC SIGNAGE



- [illegible]

5. TYPE 'III' BARRICADE

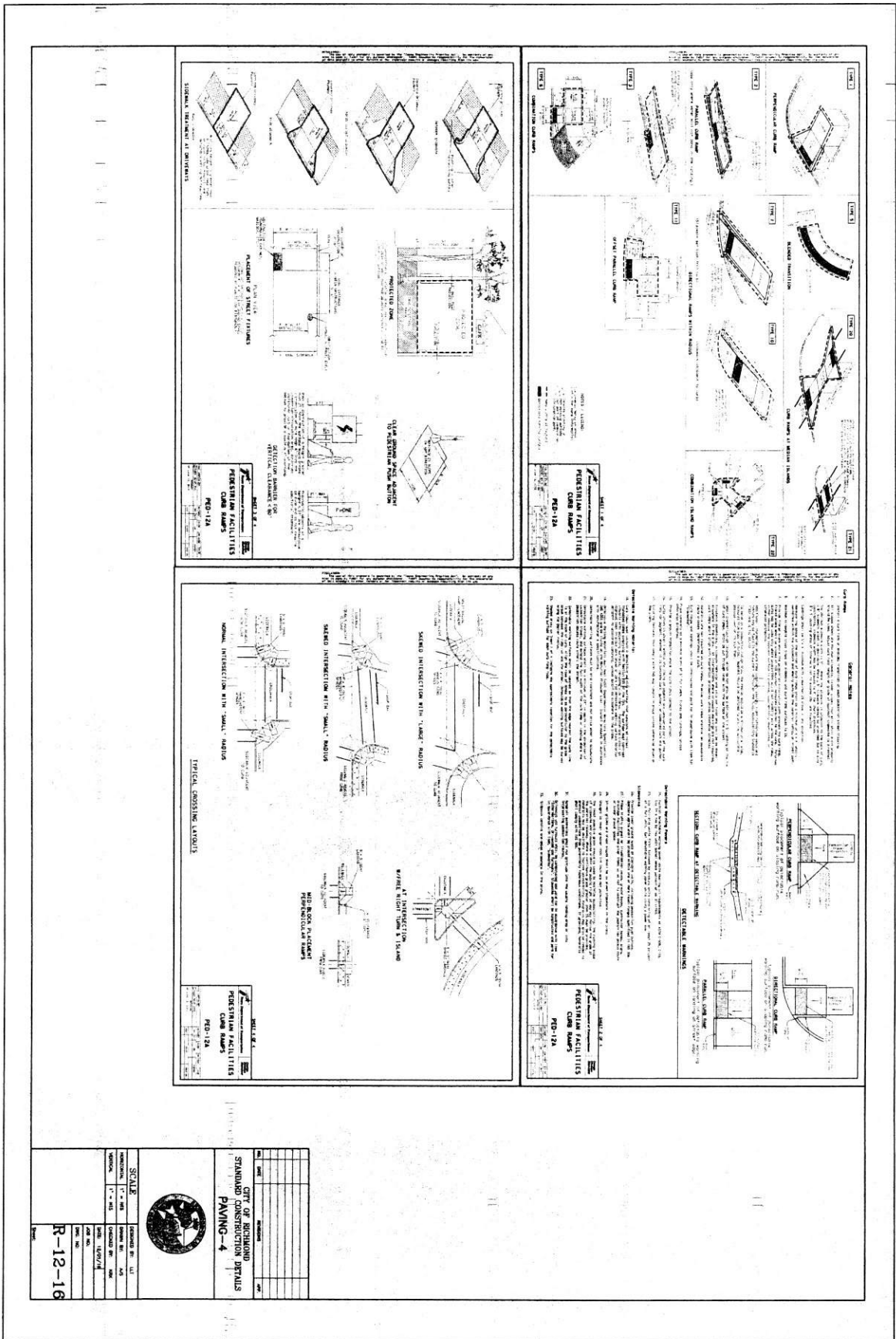


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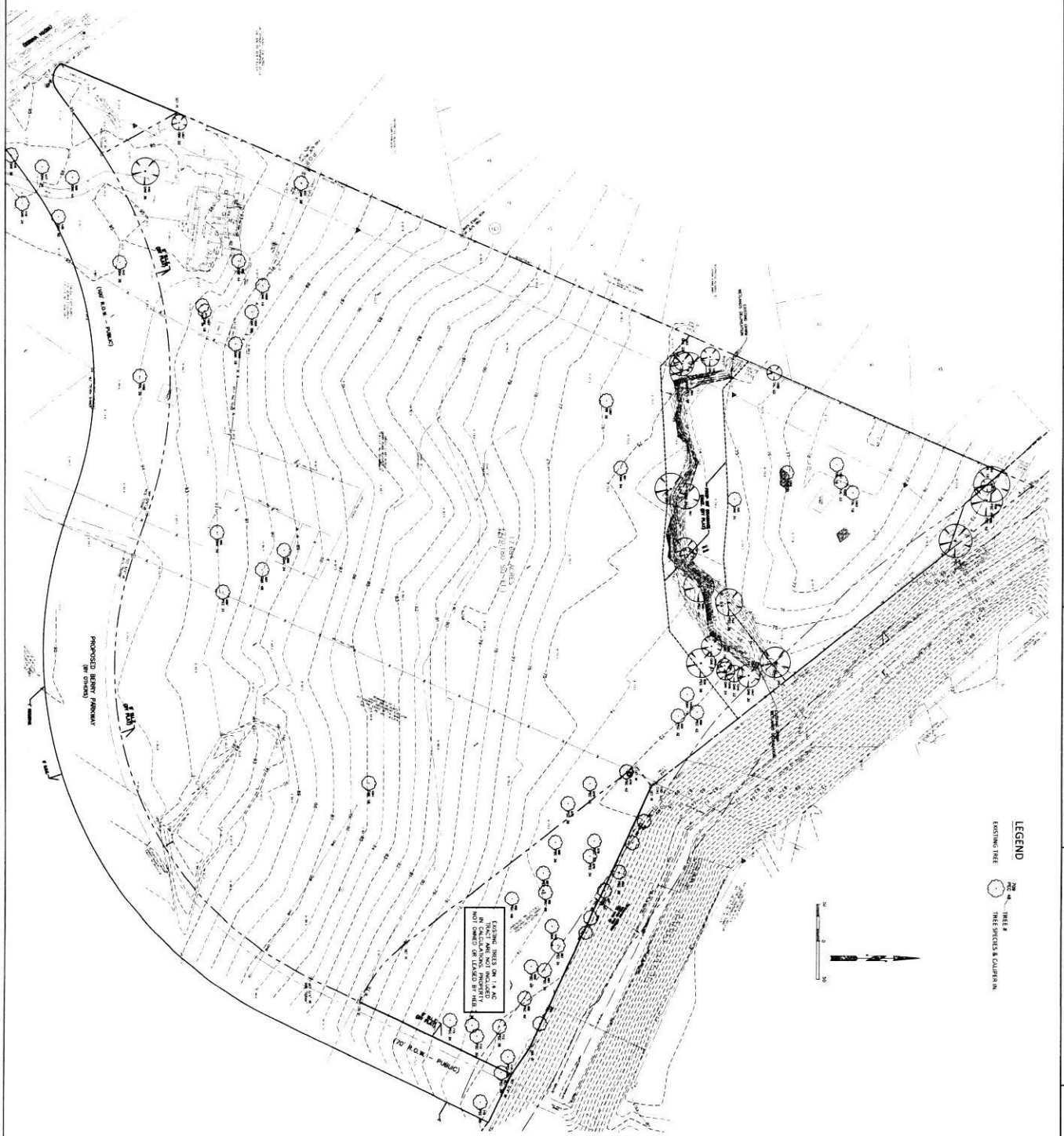
[illegible]

APPROVED: *Caandryk*
for Development Coordinator
DATE: 3/23/17

A1
CITY OF RICHMOND STANDARD CONSTRUCTION DETAILS PAVING-4
NOT TO SCALE



L0.1
TREE SURVEY PLAN



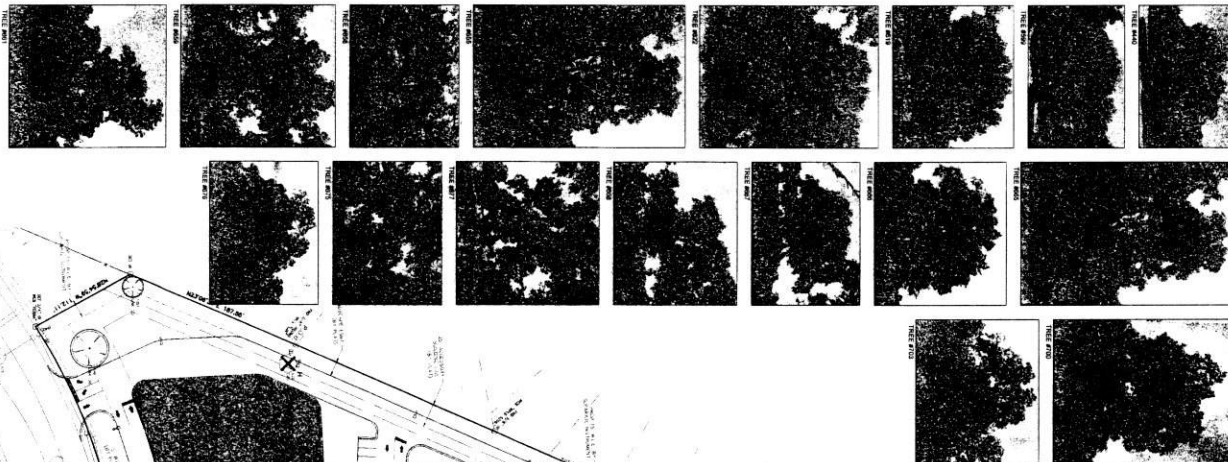
LEGEND
EXISTING TREE
TREE #
TREE SPECIES & CALIBER IN

TREE LIST:

TREE #	SPECIES	CALIBER (IN)	HEALTH	REMARKS
1	SP	12	1	
2	SP	12	1	
3	SP	12	1	
4	SP	12	1	
5	SP	12	1	
6	SP	12	1	
7	SP	12	1	
8	SP	12	1	
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96	SP	12	1	
97	SP	12	1	
98	SP	12	1	
99	SP	12	1	
100	SP	12	1	

APPROVED: *[Signature]*
DATE: 3/24/17

HERITAGE TREE PHOTOS



SELF-PROTECTION NOTES

- [illegible]

REFERENCE NOTES AND SCHEDULE

1. THERE WITHIN 15' OF PROPOSED BUILDING NOT COUNTED IN MITIGATION CALCULATION
2. THERE IS LESS THAN 15' DIA. NOT COUNTED IN MITIGATION CALCULATION
3. THERE IS AN UNDERGROUND SPECIES NOT COUNTED IN MITIGATION CALCULATION

TREE PRESERVATION SUMMARY

EXISTING TREES TO BE PRESERVED WILL BE PROTECTED ALONG, DURING AND AFTER CONSTRUCTION PER THE NOTES AND DATA PROVIDED ON THIS SHEET. TREE PRESERVATION FENCING WILL BE DIRECTED ON THE TREESCAPE PLAN.

THERE ARE A TOTAL OF 1,237 OF EXISTING TREES ON SITE. 535 (44%) OF EXISTING TREES ARE PROPOSED FOR REMOVAL, OR (75%) OF TOTAL TREES WILL BE PRESERVED.

HERITAGE TREE REMOVAL STATEMENT:

HERITAGE TREE REMOVAL STATEMENT:

THE SITE HAS NEAR 20' OF ELEVATION CHANGE WITH THE GRADE DROPPING OFF FROM THE STREET FRONTAGE TO THE BACK OF THE SITE. THE SITE MUST BE FILLED IN ORDER TO BE DEVELOPED WITH THE AMOUNT OF PROPOSED FILL SEVERAL TREES WILL NOT SURVIVE.

OVER 80% OF EXISTING TREES ARE HEIRLOOM TREES, THERE ARE 1,000' OF HEIRLOOM TREES.

40% (79%) OF HEIRLOOM TREES ARE PROPOSED FOR REMOVAL. 512' (~15%) OF HEIRLOOM TREES WILL BE PRESERVED.

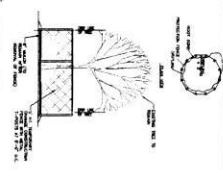
LEGEND

- EXISTING TREE TO BE REMOVED**
- EXISTING TREE TO REMAIN**
- TREE PROTECTION BOUNDARY**
- 1" = 1' HORIZONTAL TREE & TREE SPECIES & CALIBER**

LIST:

Case	Age	Sex	Time of onset	Duration	Family history	Physical examination	Investigations	Diagnosis	Treatment	Outcome
1	40	M	1978	10	+	Normal	Normal	AD	None	0
2	40	M	1978	10	+	Normal	Normal	AD	None	0
3	40	M	1978	10	+	Normal	Normal	AD	None	0
4	40	M	1978	10	+	Normal	Normal	AD	None	0
5	40	M	1978	10	+	Normal	Normal	AD	None	0
6	40	M	1978	10	+	Normal	Normal	AD	None	0
7	40	M	1978	10	+	Normal	Normal	AD	None	0
8	40	M	1978	10	+	Normal	Normal	AD	None	0
9	40	M	1978	10	+	Normal	Normal	AD	None	0
10	40	M	1978	10	+	Normal	Normal	AD	None	0
11	40	M	1978	10	+	Normal	Normal	AD	None	0
12	40	M	1978	10	+	Normal	Normal	AD	None	0
13	40	M	1978	10	+	Normal	Normal	AD	None	0
14	40	M	1978	10	+	Normal	Normal	AD	None	0
15	40	M	1978	10	+	Normal	Normal	AD	None	0
16	40	M	1978	10	+	Normal	Normal	AD	None	0
17	40	M	1978	10	+	Normal	Normal	AD	None	0
18	40	M	1978	10	+	Normal	Normal	AD	None	0
19	40	M	1978	10	+	Normal	Normal	AD	None	0
20	40	M	1978	10	+	Normal	Normal	AD	None	0
21	40	M	1978	10	+	Normal	Normal	AD	None	0
22	40	M	1978	10	+	Normal	Normal	AD	None	0
23	40	M	1978	10	+	Normal	Normal	AD	None	0
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27	40	M	1978	10	+	Normal	Normal	AD	None	0
28	40	M	1978	10	+	Normal	Normal	AD	None	0
29	40	M	1978	10	+	Normal	Normal	AD	None	0
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31	40	M	1978	10	+	Normal	Normal	AD	None	0
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33	40	M	1978	10	+	Normal	Normal	AD	None	0
34	40	M	1978	10	+	Normal	Normal	AD	None	0
35	40	M	1978	10	+	Normal	Normal	AD	None	0
36	40	M	1978	10	+	Normal	Normal	AD	None	0
37	40	M	1978	10	+	Normal	Normal	AD	None	0
38	40	M	1978	10	+	Normal	Normal	AD	None	0
39	40	M	1978	10	+	Normal	Normal	AD	None	0
40	40	M	1978	10	+	Normal	Normal	AD	None	0
41	40	M	1978	10	+	Normal	Normal	AD	None	0
42	40	M	1978	10	+	Normal	Normal	AD	None	0
43	40	M	1978	10	+	Normal	Normal	AD	None	0
44	40	M	1978	10	+	Normal	Normal	AD	None	0
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50	40	M	1978	10	+	Normal	Normal	AD	None	0
51	40	M	1978	10	+	Normal	Normal	AD	None	0
52	40	M	1978	10	+	Normal	Normal	AD	None	0
53	40	M	1978	10	+	Normal	Normal	AD	None	0

TREE PRESERVATION



TREE PRESERVATION PLAN

APPROVED: Cassidy
for Development: Coor direct
DATE: 3/23/17

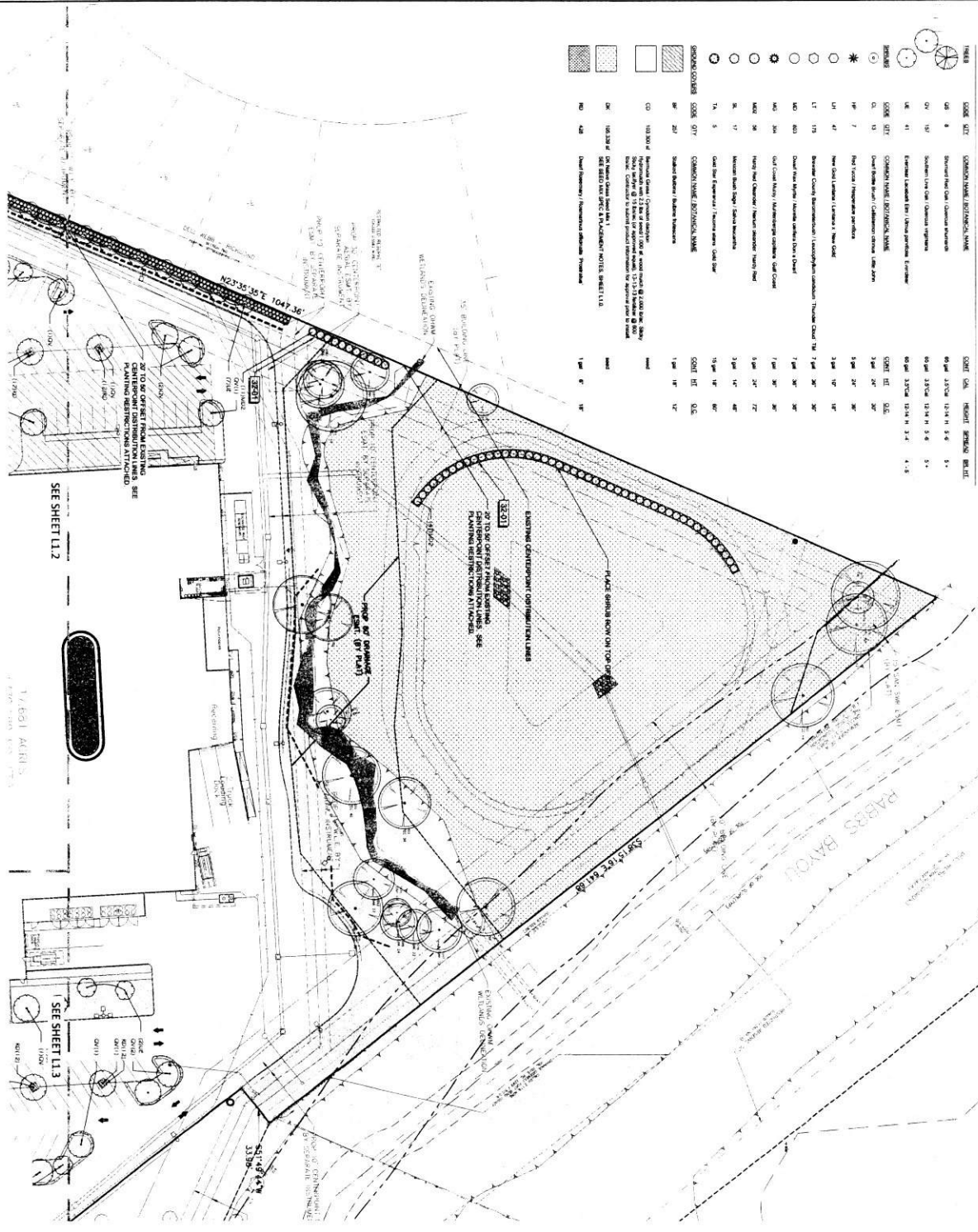
SCALE: AS NOTED
COMBIAL XXXX PRNG. NO. XXX
DATE: 02/13/201
SHEET NO. L0.2



ISSUE 01	12.18.2016			
REVISD CITY COMMENTS	02.16.2017			

PLANT SCHEDULE

SYMBOL	COMMON NAME (BOTANICAL NAME)	HEIGHT	SPREAD	REMARKS
1	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
2	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
3	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
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79	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
80	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
81	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
82	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
83	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
84	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
85	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
86	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
87	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
88	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
89	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
90	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
91	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
92	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
93	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
94	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
95	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
96	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
97	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
98	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
99	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)
100	SHRUB	6'	12' x 14' x 5'-6"	Shrubbery (e.g. Ligustrum)



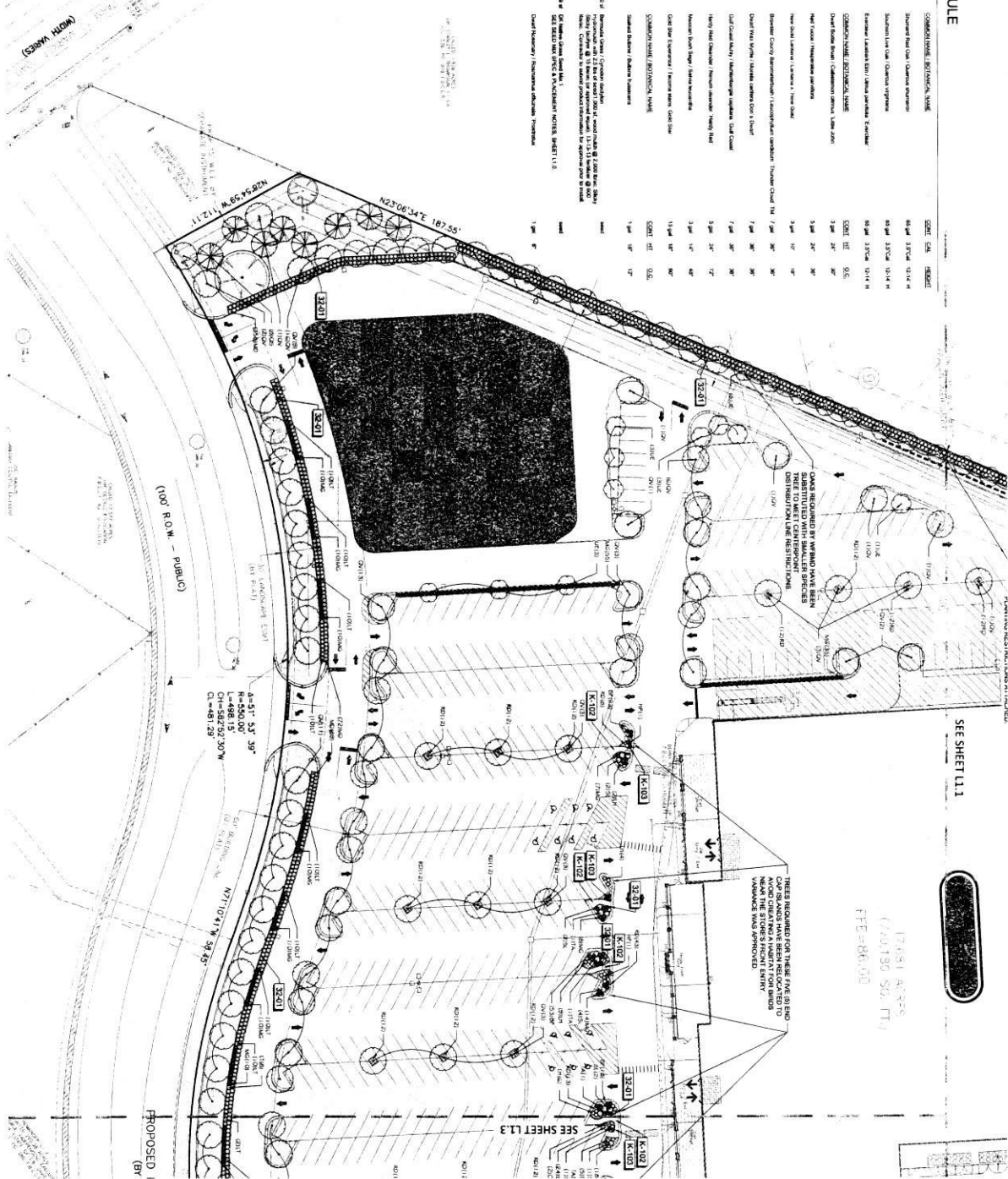
REFERENCE NOTES SCHEDULE	
1	SHRUB
2	SHRUB
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8	SHRUB
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93	SHRUB
94	SHRUB
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99	SHRUB
100	SHRUB

- LANDSCAPE NOTES**
1. MATERIAL QUANTITIES ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING QUANTITIES FOR THE CONSTRUCTION OF THE LANDSCAPE.

DATE: 3/23/17

PLANT SCHEDULE

SYMBOL	CODE	SYMBOL NAME	SYMBOL	CODE	SYMBOL NAME
	001	Street Tree (Red Oak)		002	Street Tree (Oak)
	003	Street Tree (Oak)		004	Street Tree (Oak)
	005	Street Tree (Oak)		006	Street Tree (Oak)
	007	Street Tree (Oak)		008	Street Tree (Oak)
	009	Street Tree (Oak)		010	Street Tree (Oak)
	011	Street Tree (Oak)		012	Street Tree (Oak)
	013	Street Tree (Oak)		014	Street Tree (Oak)
	015	Street Tree (Oak)		016	Street Tree (Oak)
	017	Street Tree (Oak)		018	Street Tree (Oak)
	019	Street Tree (Oak)		020	Street Tree (Oak)
	021	Street Tree (Oak)		022	Street Tree (Oak)
	023	Street Tree (Oak)		024	Street Tree (Oak)
	025	Street Tree (Oak)		026	Street Tree (Oak)
	027	Street Tree (Oak)		028	Street Tree (Oak)
	029	Street Tree (Oak)		030	Street Tree (Oak)
	031	Street Tree (Oak)		032	Street Tree (Oak)
	033	Street Tree (Oak)		034	Street Tree (Oak)
	035	Street Tree (Oak)		036	Street Tree (Oak)
	037	Street Tree (Oak)		038	Street Tree (Oak)
	039	Street Tree (Oak)		040	Street Tree (Oak)
	041	Street Tree (Oak)		042	Street Tree (Oak)
	043	Street Tree (Oak)		044	Street Tree (Oak)
	045	Street Tree (Oak)		046	Street Tree (Oak)
	047	Street Tree (Oak)		048	Street Tree (Oak)
	049	Street Tree (Oak)		050	Street Tree (Oak)
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	069	Street Tree (Oak)		070	Street Tree (Oak)
	071	Street Tree (Oak)		072	Street Tree (Oak)
	073	Street Tree (Oak)		074	Street Tree (Oak)
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	081	Street Tree (Oak)		082	Street Tree (Oak)
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	087	Street Tree (Oak)		088	Street Tree (Oak)
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	091	Street Tree (Oak)		092	Street Tree (Oak)
	093	Street Tree (Oak)		094	Street Tree (Oak)
	095	Street Tree (Oak)		096	Street Tree (Oak)
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SEE SHEET L1.1



PROJ. NO. 1877-1801
DATE: 3/2/17

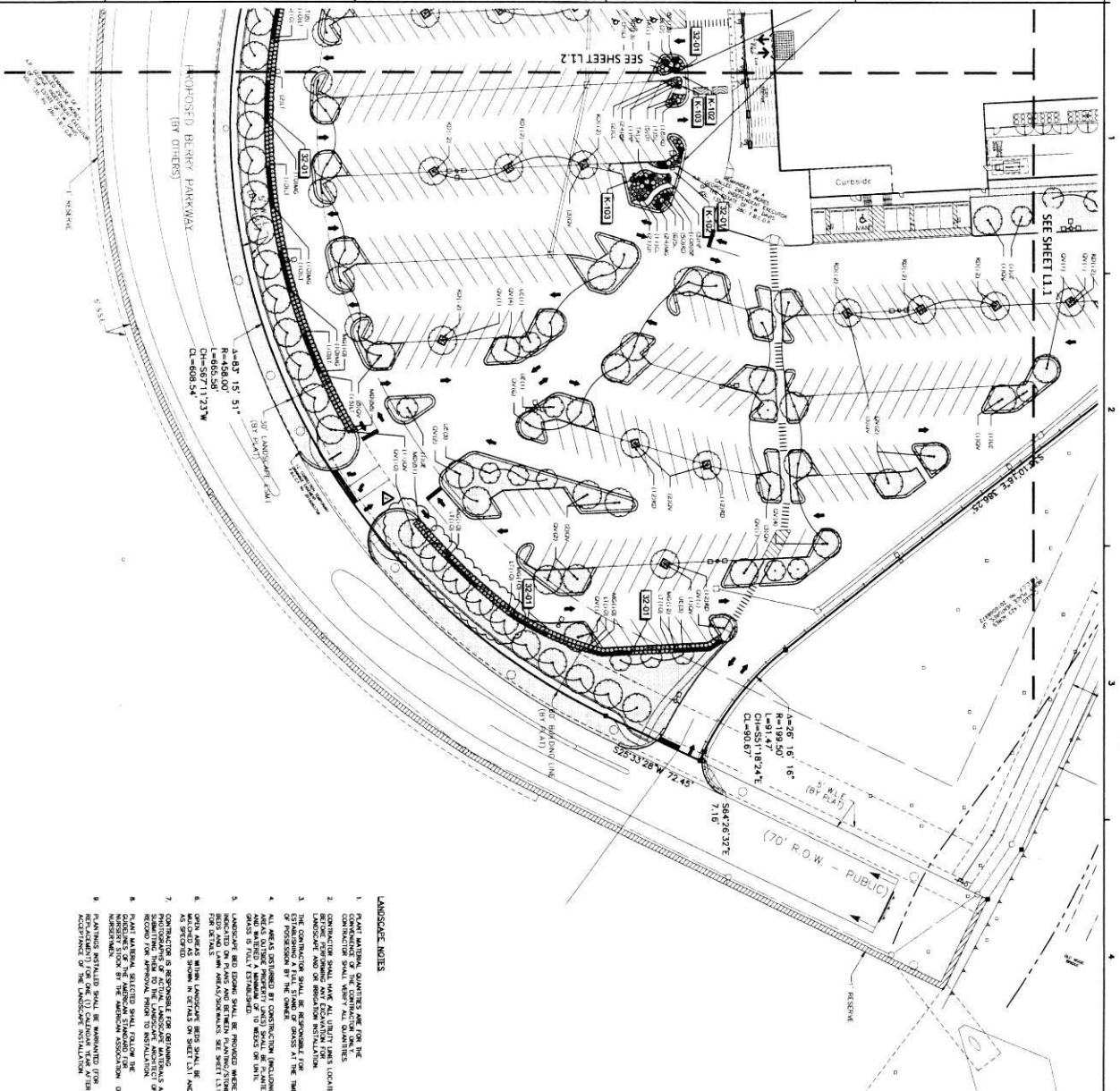
- LANDSCAPE NOTES**
1. PLANT MATERIAL QUANTITIES ARE FOR THE CONTRACTOR'S USE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF RICHMOND, TEXAS.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY
001	Street Tree (Red Oak)	247
002	Street Tree (Oak)	247
003	Street Tree (Oak)	247
004	Street Tree (Oak)	247
005	Street Tree (Oak)	247
006	Street Tree (Oak)	247
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099	Street Tree (Oak)	247
100	Street Tree (Oak)	247

APPROVED: *[Signature]*
DATE: 3/2/17

L1.3 LANDSCAPE PLAN



LANDSCAPE NOTES

1. PLANT MATERIAL, QUANTITIES AND FOR THE CONTRACTOR SHALL HAVE ALL UNITS (LBS) LOCATED IN THE PLANT SCHEDULE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
3. ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING GRASS) SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
4. LANDSCAPE MATERIALS SHALL BE PROVIDED WITHIN 10 DAYS OF THE START DATE OF THE PROJECT. ALL MATERIALS SHALL BE DELIVERED TO THE PROJECT SITE WITHIN 10 DAYS OF THE START DATE OF THE PROJECT.
5. PLANT MATERIALS SHALL BE PROVIDED WITHIN 10 DAYS OF THE START DATE OF THE PROJECT. ALL MATERIALS SHALL BE DELIVERED TO THE PROJECT SITE WITHIN 10 DAYS OF THE START DATE OF THE PROJECT.
6. PLANT MATERIALS SHALL BE PROVIDED WITHIN 10 DAYS OF THE START DATE OF THE PROJECT. ALL MATERIALS SHALL BE DELIVERED TO THE PROJECT SITE WITHIN 10 DAYS OF THE START DATE OF THE PROJECT.
7. PLANT MATERIALS SHALL BE PROVIDED WITHIN 10 DAYS OF THE START DATE OF THE PROJECT. ALL MATERIALS SHALL BE DELIVERED TO THE PROJECT SITE WITHIN 10 DAYS OF THE START DATE OF THE PROJECT.
8. PLANT MATERIALS SHALL BE PROVIDED WITHIN 10 DAYS OF THE START DATE OF THE PROJECT. ALL MATERIALS SHALL BE DELIVERED TO THE PROJECT SITE WITHIN 10 DAYS OF THE START DATE OF THE PROJECT.

REFERENCE NOTES SCHEDULE

ITEM	DESCRIPTION	QTY
1	PLANT MATERIAL	1
2	PLANT MATERIAL	1
3	PLANT MATERIAL	1
4	PLANT MATERIAL	1
5	PLANT MATERIAL	1
6	PLANT MATERIAL	1
7	PLANT MATERIAL	1
8	PLANT MATERIAL	1
9	PLANT MATERIAL	1

PLANT SCHEDULE

ITEM	CODE	QTY	COMMON NAME (BOTANICAL NAME)	SCALES	DATE	HEIGHT
1	001	1	PLANT MATERIAL	1	1	1
2	002	1	PLANT MATERIAL	1	1	1
3	003	1	PLANT MATERIAL	1	1	1
4	004	1	PLANT MATERIAL	1	1	1
5	005	1	PLANT MATERIAL	1	1	1
6	006	1	PLANT MATERIAL	1	1	1
7	007	1	PLANT MATERIAL	1	1	1
8	008	1	PLANT MATERIAL	1	1	1
9	009	1	PLANT MATERIAL	1	1	1
10	010	1	PLANT MATERIAL	1	1	1
11	011	1	PLANT MATERIAL	1	1	1
12	012	1	PLANT MATERIAL	1	1	1
13	013	1	PLANT MATERIAL	1	1	1
14	014	1	PLANT MATERIAL	1	1	1
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16	016	1	PLANT MATERIAL	1	1	1
17	017	1	PLANT MATERIAL	1	1	1
18	018	1	PLANT MATERIAL	1	1	1
19	019	1	PLANT MATERIAL	1	1	1
20	020	1	PLANT MATERIAL	1	1	1
21	021	1	PLANT MATERIAL	1	1	1
22	022	1	PLANT MATERIAL	1	1	1
23	023	1	PLANT MATERIAL	1	1	1
24	024	1	PLANT MATERIAL	1	1	1
25	025	1	PLANT MATERIAL	1	1	1
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27	027	1	PLANT MATERIAL	1	1	1
28	028	1	PLANT MATERIAL	1	1	1
29	029	1	PLANT MATERIAL	1	1	1
30	030	1	PLANT MATERIAL	1	1	1
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32	032	1	PLANT MATERIAL	1	1	1
33	033	1	PLANT MATERIAL	1	1	1
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APPROVED: DATE: 3/27/17

LANDSCAPE PLAN

HEB Corp #727
2200 BLISS RD
RICHMOND, TX 77469



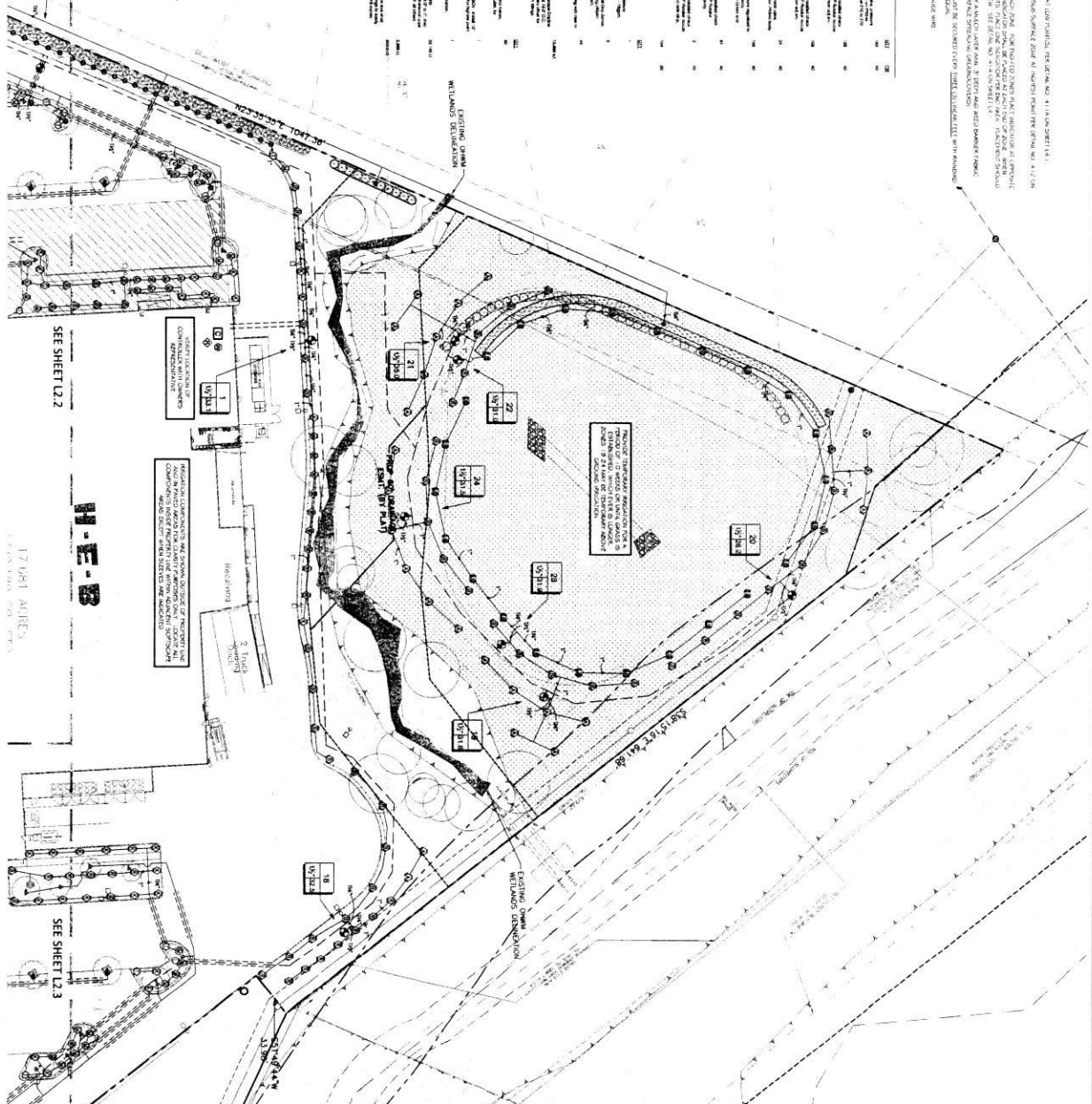
1440 N. LOOP WEST - SUITE 100
HOUSTON, TEXAS 77058
TEL: 281.416.1111
WWW.TERRAASSOCIATES.COM



REVISION	DATE	DESCRIPTION
1	03/27/2017	ISSUED FOR PERMIT
2	03/27/2017	REVISED CITY COMMENTS
3	03/27/2017	REVISED CITY COMMENTS

SCALE: AS NOTED
SHEET NO. L1.3

L2.1	IRRIGATION PLAN
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INDICATION SCHEMATIC

[illegible][illegible]

APPROVED: *[Signature]*
for Development Coordinator
DATE: *3/23/17*

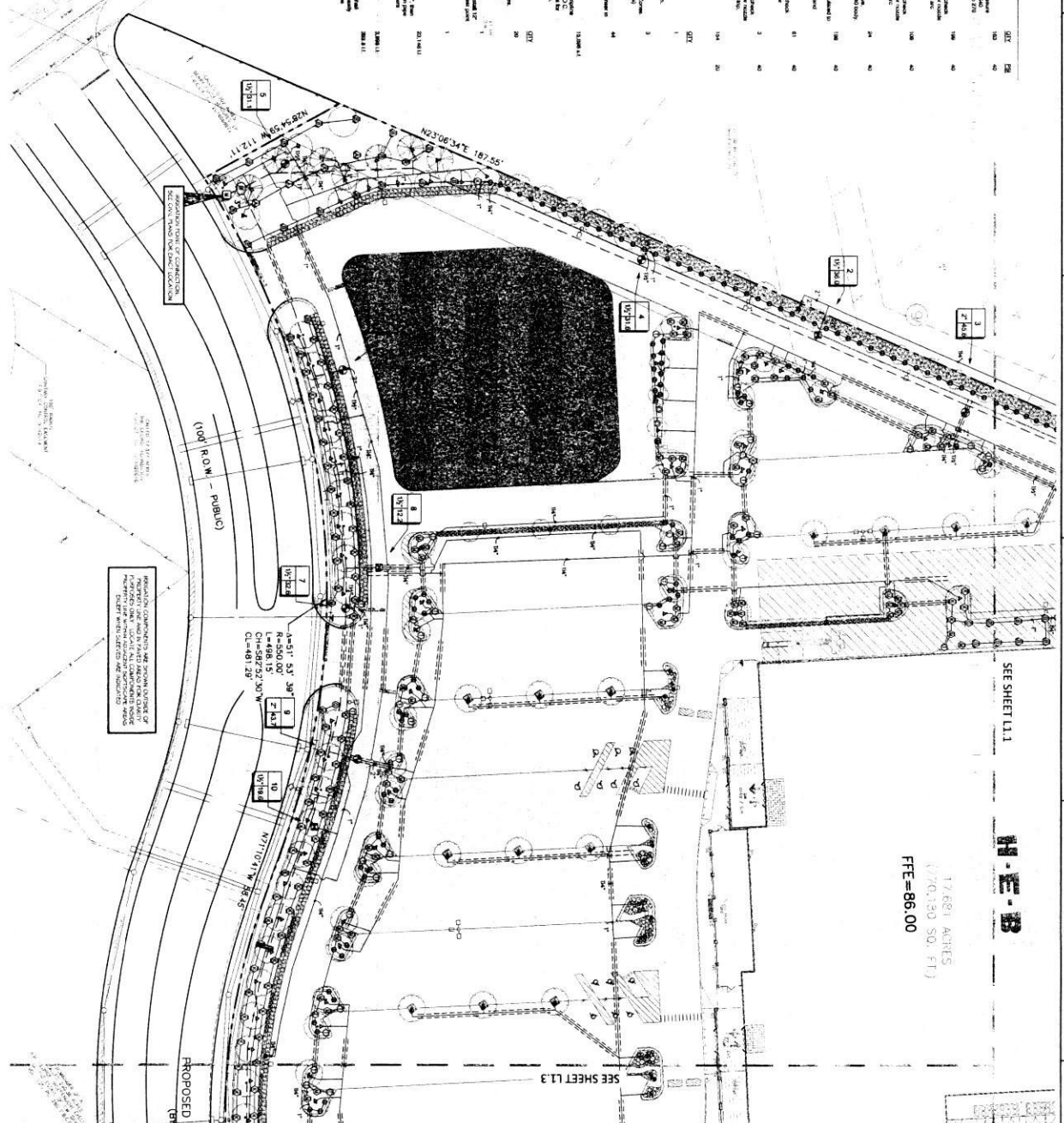
IRRIGATION PLAN

H.E.B. Corp. #727
23500 BERRY PKWY
RICHMOND, TX 77469



ISSUE D1	12/18/2016			
REVISOR: CITY COMMENTS	02/10/2017			

INFORMATION CONTINUE	
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[illegible]

SEE SHEET L1.1

三三三

17.681 ACRES
(170,130 SQ. FT.)
FFE=86.00

SEE SHEET L1.3

PROPOSED

IRRIGATION COMPONENTS ARE SHOWN OUTSIDE OF PROPERTY LINE AND IN PAVED AREAS FOR CLARITY PURPOSES ONLY. LOCATE ALL COMPONENTS INSIDE PROPERTY LINE, WITHIN ADJACENT PORTLAND AREAS EXCEPT WHERE NOTED AND INDICATED.

(100' R.O.W. - PUBLIC

... (TH VARIETIES)

APPROVED: David H. S.
for Development Code Review
DATE: 3/22/17

SCALE: AS NOTED	
CONVISA.	XXXXXX
PROJ. NO.:	XXXXX
DATE: 02/13/2017	
SHEET NO.	
122	

IRRIGATION PLAN

H.E.B. Corp. #72
23500 BERRY PKWY

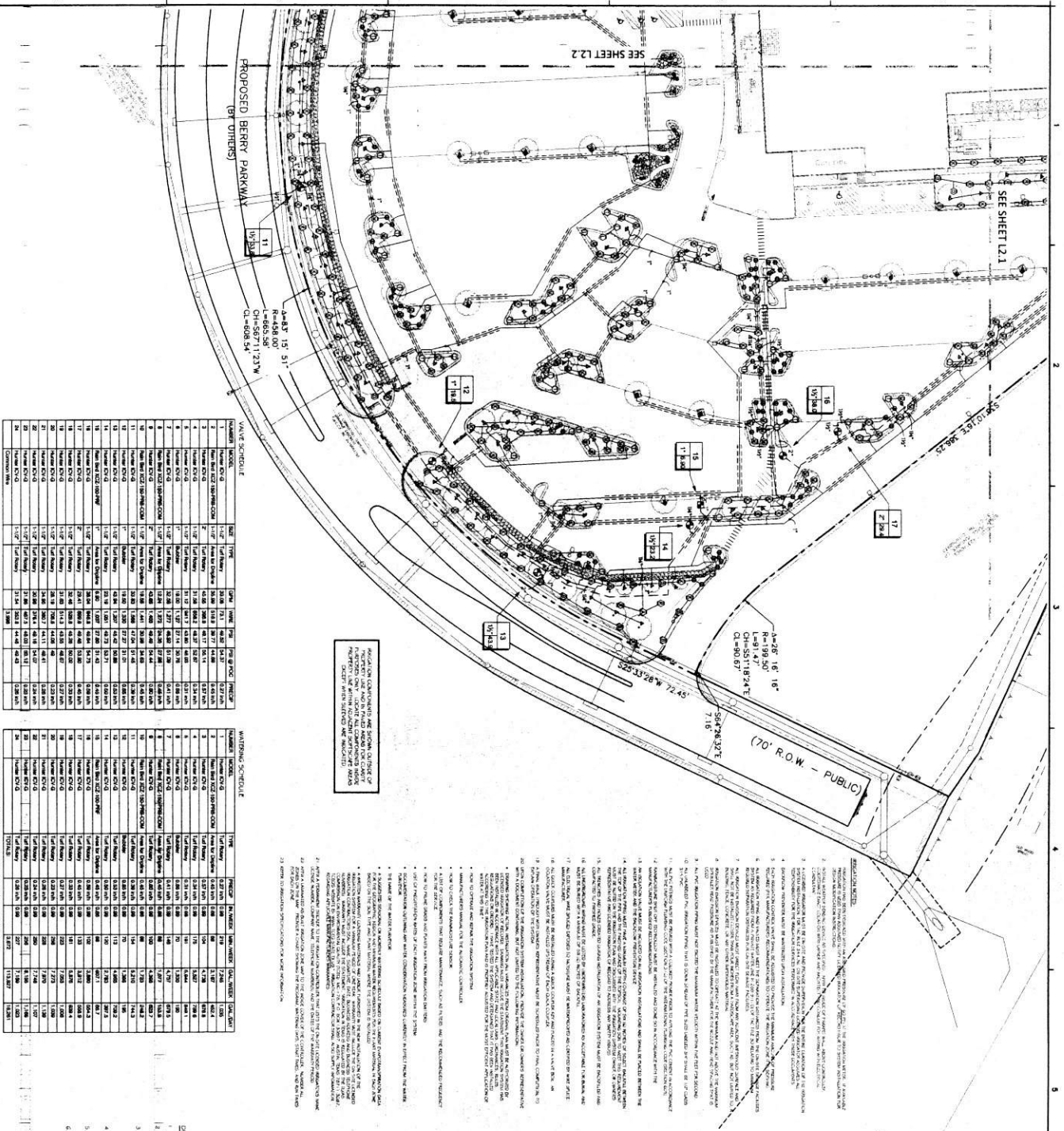


TERRA
ASSOCIATES, INC.
CONSULTING ENGINEERS
1445 N. LOOP WEST -
SUITE 450
HOUSTON, TEXAS 77008
713-663-0333



	ISSUE 01	12.19.2016			
A	REVISED CITY COMMENTS	02.10.2017			

L2.3 **IRRIGATION PLAN**



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	SPR	WELL	PRG	PRG	PRG
1	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
2	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
3	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
4	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
5	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
6	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
7	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
8	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
9	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
10	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
11	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
12	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
13	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
14	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
15	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
16	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
17	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
18	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
19	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
20	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
21	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
22	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
23	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
24	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0

WAITING SCHEDULE

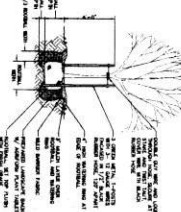
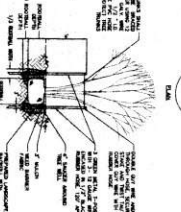
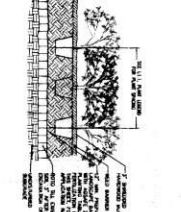
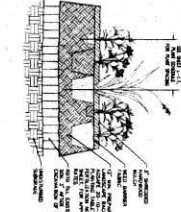
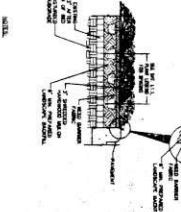
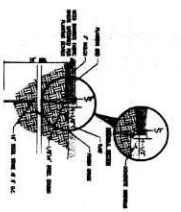
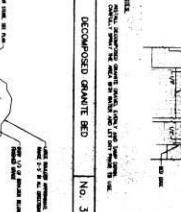
NUMBER	MODEL	SIZE	TYPE	SPR	WELL	PRG	PRG	PRG
1	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
2	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
3	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
4	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
5	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
6	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
7	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
8	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
9	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
10	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
11	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
12	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
13	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
14	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
15	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
16	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
17	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
18	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
19	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
20	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
21	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
22	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
23	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
24	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0

- NOTES:**
1. ALL IRRIGATION SYSTEMS SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 2. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 3. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 4. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
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 17. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 18. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 19. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 20. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 21. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 22. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 23. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.
 24. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO ALL PLANTS AND TREES.

IRRIGATION SCHEDULE

NUMBER	MODEL	SIZE	TYPE	SPR	WELL	PRG	PRG	PRG
1	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
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3	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
4	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
5	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
6	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
7	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
8	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
9	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
10	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
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14	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
15	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
16	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
17	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
18	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
19	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
20	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
21	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
22	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
23	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0
24	Valve D-10	1.5"	Full Flow	20.0	1.0	4.0	1.0	1.0

L3.1
LANDSCAPE DETAILS

SINGLE-TRUNK TREE PLANTING No. 300  NOTES: 1. TREE SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE TREE SHALL BE PLANTED WITH THE ROOT BALL AT THE SPECIFIED DEPTH. 3. THE TREE SHALL BE PLANTED WITH THE TRUNK AT THE SPECIFIED ANGLE. 4. THE TREE SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	MULTI-TRUNK TREE PLANTING No. 301  NOTES: 1. TREE SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE TREE SHALL BE PLANTED WITH THE ROOT BALL AT THE SPECIFIED DEPTH. 3. THE TREE SHALL BE PLANTED WITH THE TRUNKS AT THE SPECIFIED ANGLE. 4. THE TREE SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	SPRING BED PLANTING No. 302  NOTES: 1. SPRING BED SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE SPRING BED SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE SPRING BED SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE SPRING BED SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	PERENNIAL ANNUAL PLANTING No. 303  NOTES: 1. PERENNIAL ANNUAL SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE PERENNIAL ANNUAL SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE PERENNIAL ANNUAL SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE PERENNIAL ANNUAL SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.
GROUNDCOVER PLANTING No. 304  NOTES: 1. GROUNDCOVER SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE GROUNDCOVER SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE GROUNDCOVER SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE GROUNDCOVER SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	LANDSCAPE BED EDGE No. 305A  NOTES: 1. LANDSCAPE BED EDGE SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE LANDSCAPE BED EDGE SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE LANDSCAPE BED EDGE SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE LANDSCAPE BED EDGE SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	LANDSCAPE BOLLARD No. 309A  NOTES: 1. LANDSCAPE BOLLARD SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE LANDSCAPE BOLLARD SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE LANDSCAPE BOLLARD SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE LANDSCAPE BOLLARD SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.	DECOMPOSED GRANITE BED No. 307A  NOTES: 1. DECOMPOSED GRANITE BED SHALL BE PLANTED AT THE SPECIFIED LOCATION AND ORIENTED AS SHOWN. 2. THE DECOMPOSED GRANITE BED SHALL BE PLANTED WITH THE BED AT THE SPECIFIED DEPTH. 3. THE DECOMPOSED GRANITE BED SHALL BE PLANTED WITH THE PLANTS AT THE SPECIFIED ANGLE. 4. THE DECOMPOSED GRANITE BED SHALL BE PLANTED WITH THE CANOPY AT THE SPECIFIED SPREAD.

APPROVED: *David H. H.*
DATE: 5/23/17

LANDSCAPE DETAILS

H.E.B. Corp. #727
2300 BERRY PARK
RICHMOND, TX 77486



1448 N. LOOP WEST - SUITE 400
HOUSTON, TEXAS 77058
TERRA ASSOCIATES, INC.
7705857



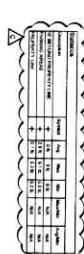
ISSUE #	REVISION CITY COMMENTS	DATE
1		12.18.2016
2		02.16.2017

LANDSCAPE DETAILS
L3.1

L4.1
IRRIGATION DETAILS

IRIGATION CONTROLLER No. 400 1. PRESSURE VACUUM BREAKER 2. BACKFLOW PREVENTER 3. CHECK VALVE 4. AIR RELEASE VALVE 5. AIR RELEASE VALVE 6. AIR RELEASE VALVE 7. AIR RELEASE VALVE 8. AIR RELEASE VALVE 9. AIR RELEASE VALVE 10. AIR RELEASE VALVE NOTE: THIS DEVICE IS REQUIRED FOR ALL IRRIGATION SYSTEMS TO PREVENT BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY. IT MUST BE INSTALLED UPSTREAM OF THE FIRST VALVE OR CONTROL DEVICE IN THE IRRIGATION SYSTEM.	ZONE CONTROL VALVE No. 401 1. VALVE BODY 2. VALVE BODY 3. VALVE BODY 4. VALVE BODY 5. VALVE BODY 6. VALVE BODY 7. VALVE BODY 8. VALVE BODY 9. VALVE BODY 10. VALVE BODY	CONTROL WIRE SPICE No. 402 1. WIRE 2. WIRE 3. WIRE 4. WIRE 5. WIRE 6. WIRE 7. WIRE 8. WIRE 9. WIRE 10. WIRE	IRIGATION TRENCH No. 403 1. TRENCH 2. TRENCH 3. TRENCH 4. TRENCH 5. TRENCH 6. TRENCH 7. TRENCH 8. TRENCH 9. TRENCH 10. TRENCH	THRUST BLOCK No. 404 1. BLOCK 2. BLOCK 3. BLOCK 4. BLOCK 5. BLOCK 6. BLOCK 7. BLOCK 8. BLOCK 9. BLOCK 10. BLOCK	DUCK COUPLER No. 405 1. COUPLER 2. COUPLER 3. COUPLER 4. COUPLER 5. COUPLER 6. COUPLER 7. COUPLER 8. COUPLER 9. COUPLER 10. COUPLER	POP UP SPRAY SPRINKLER No. 407 1. SPRINKLER 2. SPRINKLER 3. SPRINKLER 4. SPRINKLER 5. SPRINKLER 6. SPRINKLER 7. SPRINKLER 8. SPRINKLER 9. SPRINKLER 10. SPRINKLER	DEEP ZONE CONTROL VALVE KIT No. 409A 1. VALVE 2. VALVE 3. VALVE 4. VALVE 5. VALVE 6. VALVE 7. VALVE 8. VALVE 9. VALVE 10. VALVE	MANUAL FLUSH VALVE No. 411A 1. VALVE 2. VALVE 3. VALVE 4. VALVE 5. VALVE 6. VALVE 7. VALVE 8. VALVE 9. VALVE 10. VALVE	AIR RELIEF VALVE No. 412 1. VALVE 2. VALVE 3. VALVE 4. VALVE 5. VALVE 6. VALVE 7. VALVE 8. VALVE 9. VALVE 10. VALVE	PRESSURE VACUUM BREAKER No. 413 1. VALVE 2. VALVE 3. VALVE 4. VALVE 5. VALVE 6. VALVE 7. VALVE 8. VALVE 9. VALVE 10. VALVE	DEEP OPERATION INDICATOR No. 414 1. INDICATOR 2. INDICATOR 3. INDICATOR 4. INDICATOR 5. INDICATOR 6. INDICATOR 7. INDICATOR 8. INDICATOR 9. INDICATOR 10. INDICATOR	DRIP Emitter FOR PVC No. 415 1. Emitter 2. Emitter 3. Emitter 4. Emitter 5. Emitter 6. Emitter 7. Emitter 8. Emitter 9. Emitter 10. Emitter	DRIP Emitter AROUND TREE No. 416 1. Emitter 2. Emitter 3. Emitter 4. Emitter 5. Emitter 6. Emitter 7. Emitter 8. Emitter 9. Emitter 10. Emitter	DRIP Emitter IRREGULAR LAYOUT No. 417 1. Emitter 2. Emitter 3. Emitter 4. Emitter 5. Emitter 6. Emitter 7. Emitter 8. Emitter 9. Emitter 10. Emitter
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APPROVED: *[Signature]*
DATE: 3/23/17

[illegible]