

16P

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 28th day of July, 2015, Commissioners Court came on to be heard and reviewed the accompanying notice of Gonzalez Construction Enterprise, Inc. Job Location Harlem Road , Richmond , TX 77407 Date 7/13/2015 Bond No. 456579C, Permit No. 2015-1429 to make use of certain Fort Bend County property subject to, "A Revised 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 the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded by Commissioner Morrisson, 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.

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
 Mail notices to: Permit Administrator
 Fort Bend County Engineering
 301 Jackson Street
 Richmond, Texas 77469
 281-633-7500
3. This permit expires one (1) year from date of permit if construction has not commenced.

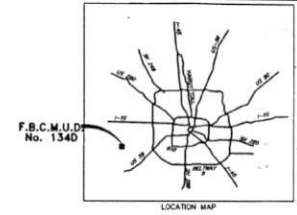
By: [Signature]
 County Engineer

Presented to Commissioners Court and approved.
 Recorded in Volume 7-28-15/16 P
 Minutes of Commissioners Court

By: N/A
 Drainage District Engineer/Manager

Clerk of Commissioners Court
 By: [Signature]
 Deputy

CONSTRUCTION OF 8" AND 12" FORCE MAIN ALONG HARLEM ROAD FOR GRAND PARKWAY 1358, LP. ON BEHALF OF FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT No. 134D



FORT BEND COUNTY ENGINEER

ENGINEER: *Richard Stolus*
RICHARD A. STOLUS, P.E.

DATE: 5/6/15

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN ONE (1) YEAR FROM DATE OF APPROVAL.

APPROVED: *Mark A. Jones*
MARK A. JONES, P.E.
EQUIPMENT COORDINATOR

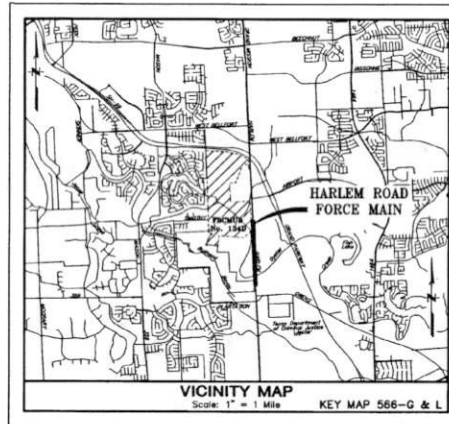
DATE: 5/6/15

NOTES:
These plans were prepared to meet or exceed the specifications and requirements of City of Houston and Fort Bend County as currently amended.
Approval by Fort Bend County will be deemed void if construction has not begun within one year of approval date.
Construction shall not begin before the plot of this section is filed in the Fort Bend County Map Records.
Construction will be monitored under the supervision of a licensed engineer professional JONES & CARTER, INC.
Contractor shall notify the Fort Bend County Engineering Department at least 48 hours prior to commencement of work.
Email: construction@fortbendcountytexas.gov

Contractor shall notify the City of Houston, Department of Public Works and Engineering, Office of the City Engineer, 48 hours before starting work on this project. Telephone No. 632-394-8098

TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
www.texas811.org
1-800-344-8377

100-Year Flood Plain
According to Map No. 483700140L of the Federal Emergency Management Agency's Flood Insurance Rate Maps dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE". Zone "AE" is defined as areas within the 100-Year Flood Plain. The Flood Statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. The Flood Statement shall not create liability on the part of the surveyor.
Note: The 100-Year base flood elevation is approximately 63.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 483700140L, dated April 2, 2014. The 100-Year Flood Plain elevation 63.0 is contained in the storm north of the detention pond.



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5	FORCE MAIN 28+00 TO 32+00
6	FORCE MAIN 32+00 TO 36+00
7	FORCE MAIN 36+00 TO 40+00
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12	FORCE MAIN 56+00 TO 60+00
13	FORCE MAIN 60+00 TO 63+00
14	FORCE MAIN 63+00 TO 67+50
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17	STORM WATER POLLUTION PREVENTION PLAN DETAILS

MARCH 2015

JC JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
6335 Gulton Dr., Suite 100 Houston, Texas 77061 (713) 777-5337

I, Christopher C. Jousan, a Professional Engineer licensed in the State of Texas do hereby certify that these plans were prepared under my supervision to meet or exceed the specifications and requirements of Fort Bend County, Texas.

CCJ
Christopher C. Jousan, P.E.
4/12/15
Date

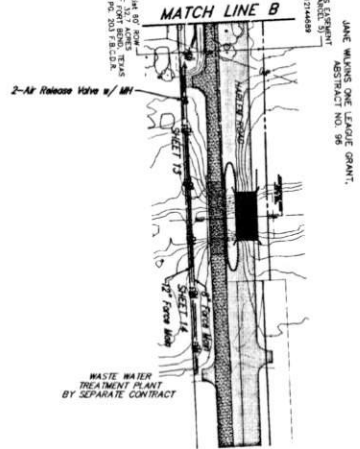
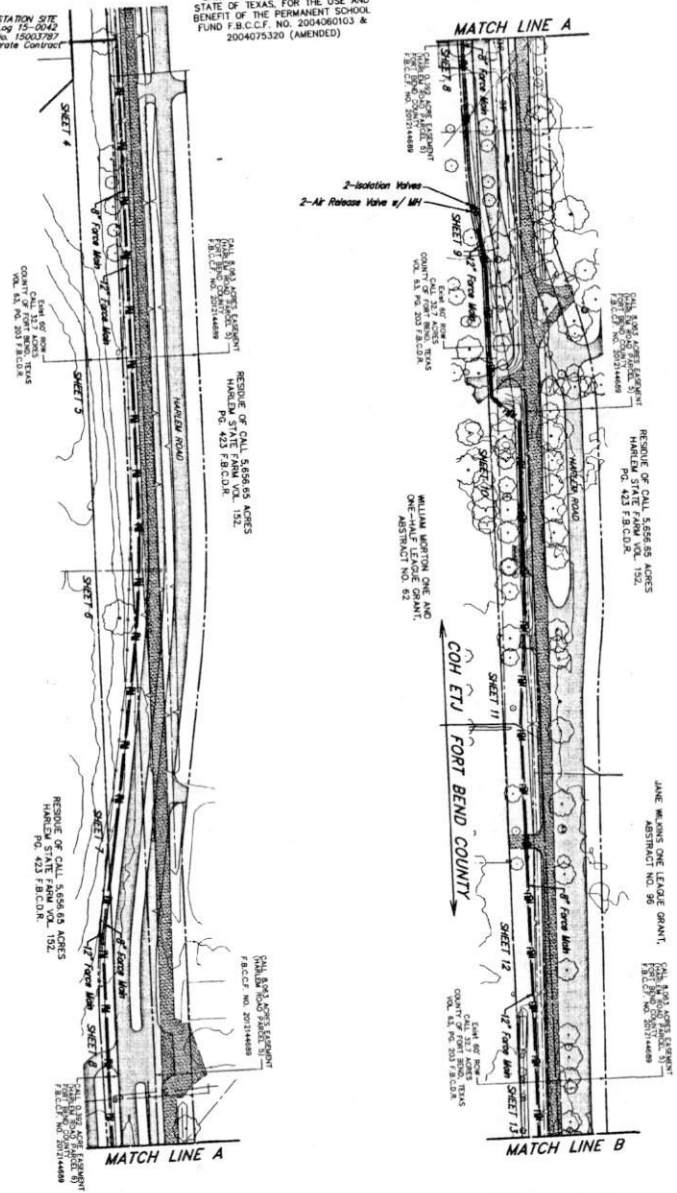
ILMS No. 15010223
C.O.H. LOG No. 15-0144

SURVEYED BY: <i>CCJ</i> FB NO.:	
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
WATER 4-2-15	TRAFFIC & TRANSPORTATION
MISCELLANEOUS 4-2-15	STORM WATER QUALITY
STORM 4-2-15	UTILITIES
STREET & BRIDGE 4-2-15	INVESTIGATION 4-2-15
CITY ENGINEER <i>Scotty 4/15</i>	FOR CITY OF HOUSTON USE ONLY
DIRECTOR OF PUBLIC WORKS AND ENGINEERING <i>Scotty 4/15</i>	CITY ENGINEER
SHEET No. 1 OF 17	

JONES & CARTER, INC. ENGINEERS • PLANNERS • SURVEYORS HARLEM ROAD - FORCE MAIN

LEFT STATION SITE
COH Log 15-0042
RWS No. 15003787
By Separate Contract

CALL 101.79 ACRES (TRACT TWO)
STATE OF TEXAS, FOR THE USE AND
BENEFIT OF THE PERMANENT SCHOOL
FUND F.B.C.C.F. NO. 2004060103 &
2004075320 (AMENDED)



LEGEND

EXISTING	PROPOSED	
[Symbol]	[Symbol]	WATERLINE w/ GATE VALVE
[Symbol]	[Symbol]	FLUSH VALVE w/ GATE VALVE
[Symbol]	[Symbol]	PLUG & CLAMP w/ BLOW OFF
[Symbol]	[Symbol]	SANITARY SEWER w/ MANHOLE
[Symbol]	[Symbol]	SANITARY STACK
[Symbol]	[Symbol]	SANITARY LEAD
[Symbol]	[Symbol]	STORM SEWER w/ MANHOLE
[Symbol]	[Symbol]	STORM SEWER w/ INLET
[Symbol]	[Symbol]	SWALE CENTERLINE
[Symbol]	[Symbol]	NATURAL GROUND CONTOUR
[Symbol]	[Symbol]	UTILITY EASEMENT
[Symbol]	[Symbol]	WATERLINE EASEMENT
[Symbol]	[Symbol]	SANITARY SEWER EASEMENT
[Symbol]	[Symbol]	STORM SEWER EASEMENT
[Symbol]	[Symbol]	DRAINAGE EASEMENT
[Symbol]	[Symbol]	AERIAL EASEMENT

100-Year Flood Plain
According to Map No. 4815700140E of the Federal Emergency Management Agency's Flood Insurance Rate Map dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE"; Zone "AE" is defined as areas within the 100-Year Flood Plain. This Flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by over-trees or natural causes. This Flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Profile No. 4815700140E, dated April 2, 2014. The 100-Year Flood Plain, Section 8.1.0, is contained in the shown north of the detention pond.

BENCH MARK
2005 FORT BEND COUNTY LEAD BENCHMARK NO. 25, 7x1" NAIL IN ASPHALT LOCATED 2' WEST OF THE FIRST MEASURING WEST OF I.A. 304 ON HIGHWAY 90-A, ELEVATION=84.09 NAVD83 (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEO3003.

[Symbol] Prop Asphalt w/ Conc Curbs
By Others

[Symbol] Exist Asphalt Pav't

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 5/4/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
ENGINEERS - PLANNERS - SURVEYORS
Texas Board of Professional Engineers Registration No. P-419
6306 Galloway Dr., Suite 100, Houston, Texas 77057 (713) 777-6337

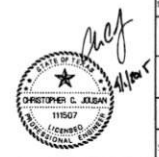
HARLEM ROAD
GENERAL CONSTRUCTION LAYOUT
SANITARY SEWER

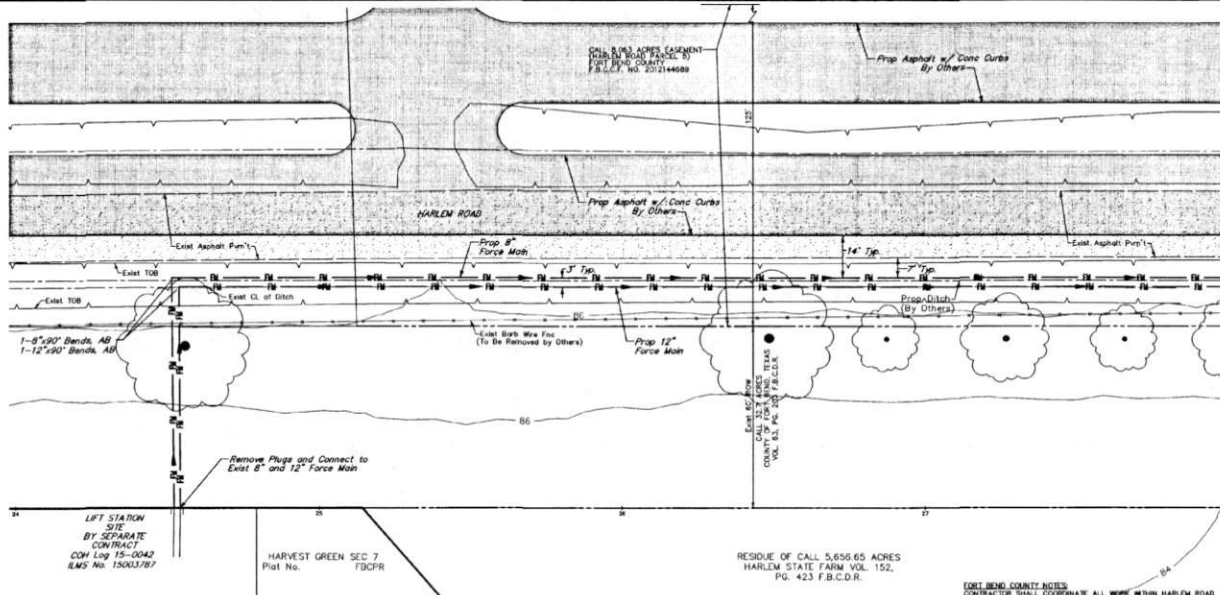
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGNED BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>
DRAWN BY: <i>[Signature]</i>	DATE: 5/4/15
SCALE: AS SHOWN	PROJECT NO: 4-1-15

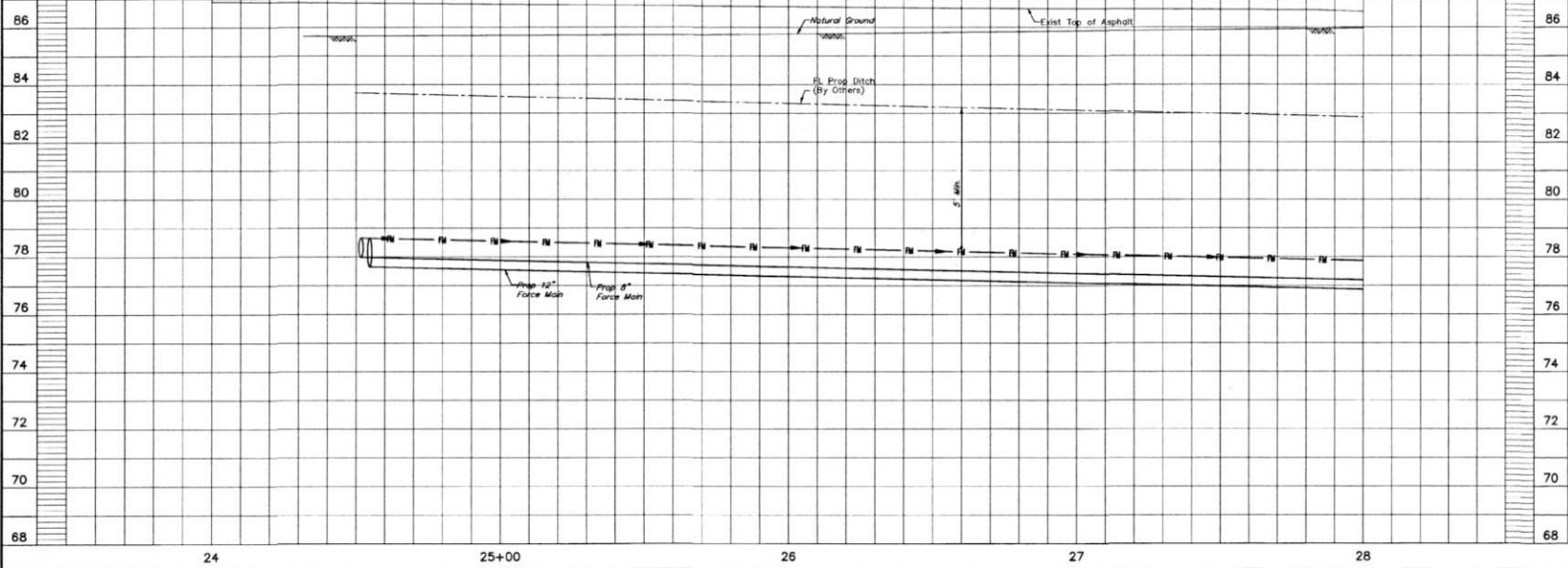
FILE NO: 60292-5002-36	FOR CITY OF HOUSTON USE ONLY CITY DWG. NO.
DATE: MARCH 2015	53946
SCALE: 1"=100'	CITY OF HOUSTON
SHEET No. 2 OF 17	



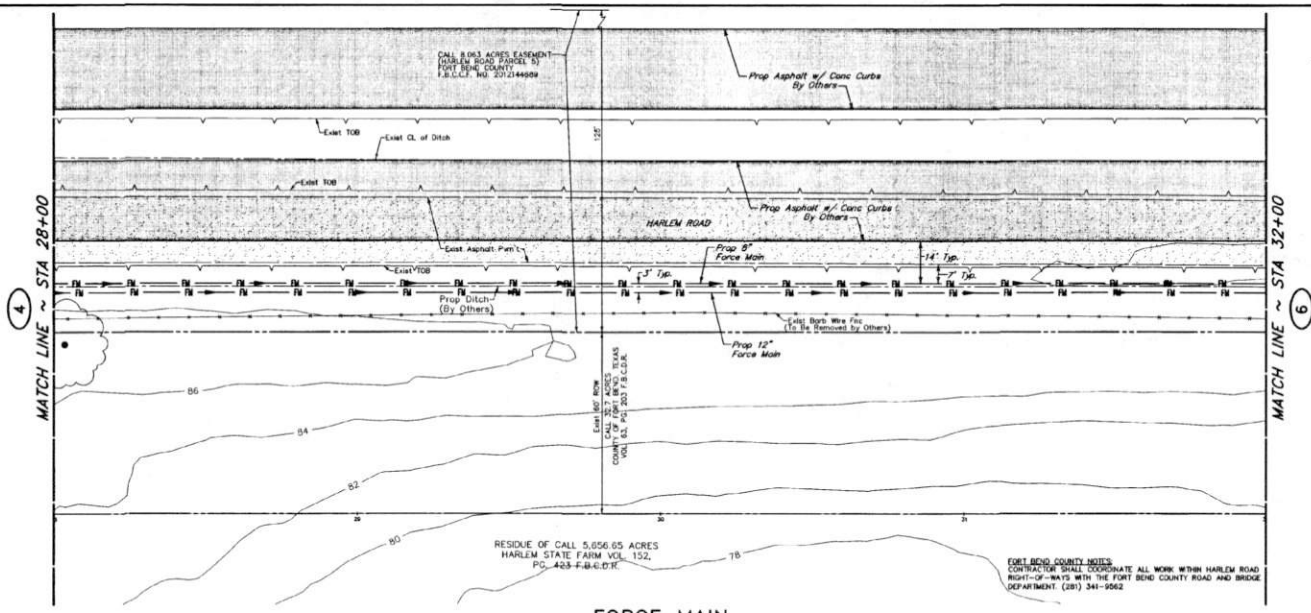


100-Year Flood Plain
 According to map No. 48157C040L of the Federal Emergency Management Agency's Flood Insurance Rate Map dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AC". Zone "AC" is defined as areas within the 100-year Flood Plain. This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.
 Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 48157C040L, dated April 2, 2014. The 100-Year Flood Plain, elevation 83.0, is contained in the channel north of the detention pond.
BENCH MARK
 2000 FORT BEND COUNTY LEARN BENCHMARK NO. 25, 7th MAIL IN ASPHALT LOCATED 2.5 WEST OF THE FIRST MEDIAN ROSE WEST OF F.M. 200 ON HIGHWAY 60-A. ELEVATION=84.09 NAVIGOS (2001 ADJUSTMENT)
 NOTE: ALL ELEVATIONS SHOWN WERE OBTAINED FROM GPS/RTK OBSERVATIONS AND UTILIZED SCORPIO.
 A north arrow and a site location map are also included.

FORCE MAIN



APPROVED: *[Signature]* DEVELOPMENT COORDINATOR
 DATE: 3/4/15
 NO. DATE REVISIONS APP
 FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS
JONES & CARTER, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 Texas Board of Professional Engineers Registration No. F-419
 4328 Gorker Dr., Suite 100 Houston, Texas 77061 (713) 771-6331
HARLEM ROAD
FORCE MAIN
24+00 TO 28+00
 NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 DATE: 3/4/15
 FOR CITY OF HOUSTON USE ONLY
 CITY ENG. NO. 53946
 SCALE: 1"=20' H, 1"=2' V
 SHEET No. 4 of 17



100-Year Flood Plain
 According to Map No. 48157C0140L of the Federal Emergency Management Agency's Flood Insurance Rate Map dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE". Zone "AE" is indicated on areas within the 100-Year Flood Plain. This Flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 48157C0140L, Dated April 2, 2014. The 100-Year Flood Plain, elevation 83.0, is contained in the channel north of the detention pond.

BENCH MARK
 2005 FORT BEND COUNTY LEAP BENCHMARK NO. 25. "M" BAIL IN ASPHALT LOCATED 2.5' WEST OF THE FIRST MEDIAN HOSE WEST OF I.A. 206 ON HIGHWAY 40-A. ELEVATION=846.76 (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE OBTAINED FROM GPS/RTK OBSERVATIONS AND UTILIZED GDS003.

Prop Asphalt w/ Conc Curbs By Others
 Exist Asphalt Pav't



APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 5/4/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 134D
 FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
 ENGINEERS-PLANNERS & SURVEYORS
 Texas Board of Professional Engineers Registration No. 419
 6208 Oakhills Dr., Suite 100, Houston, Texas 77061 (713) 771-6332

HARLEM ROAD
 FORCE MAIN
 28+00 TO 32+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

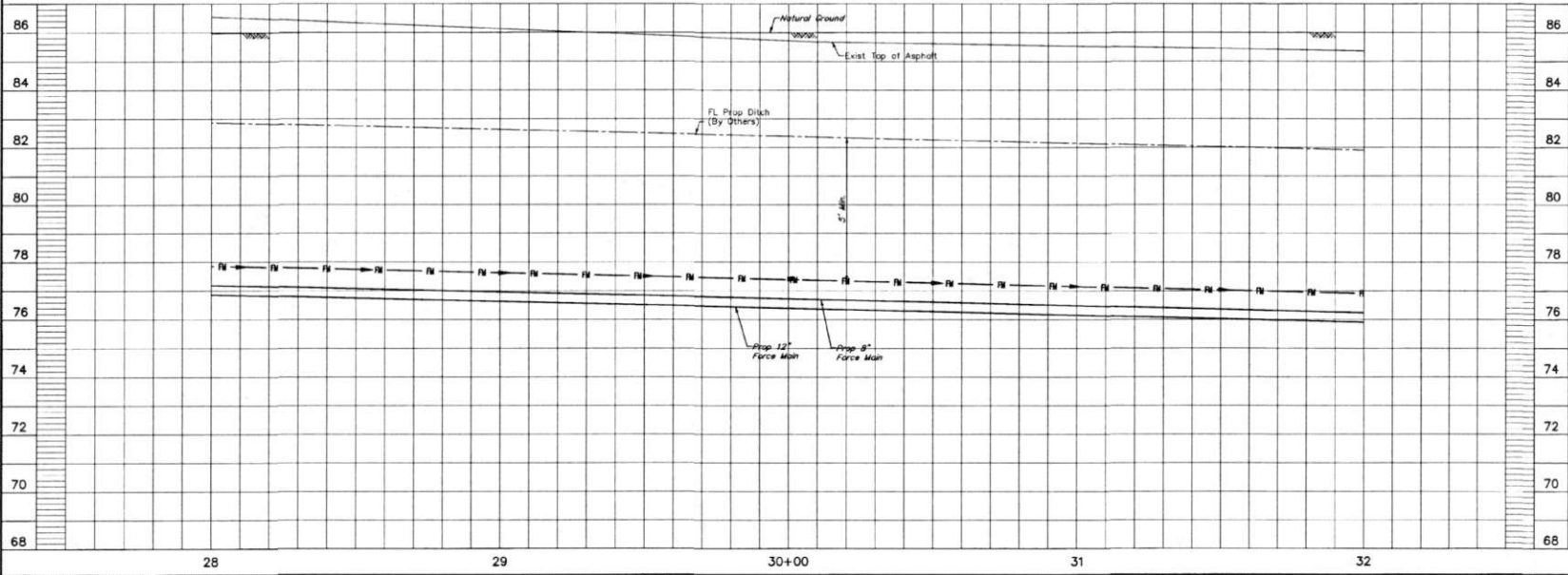
DATE: 5/4/15
 DRAWN: *[Signature]*
 CHECKED: *[Signature]*
 DATE: 4/21/15

FILE NO:
 JOB NO: 15094-0002-00

DATE: MARCH 2015
 SON BY: CCJ
 DWG. BY: AJR

SCALE: 1"=20' H
 1"=2' V

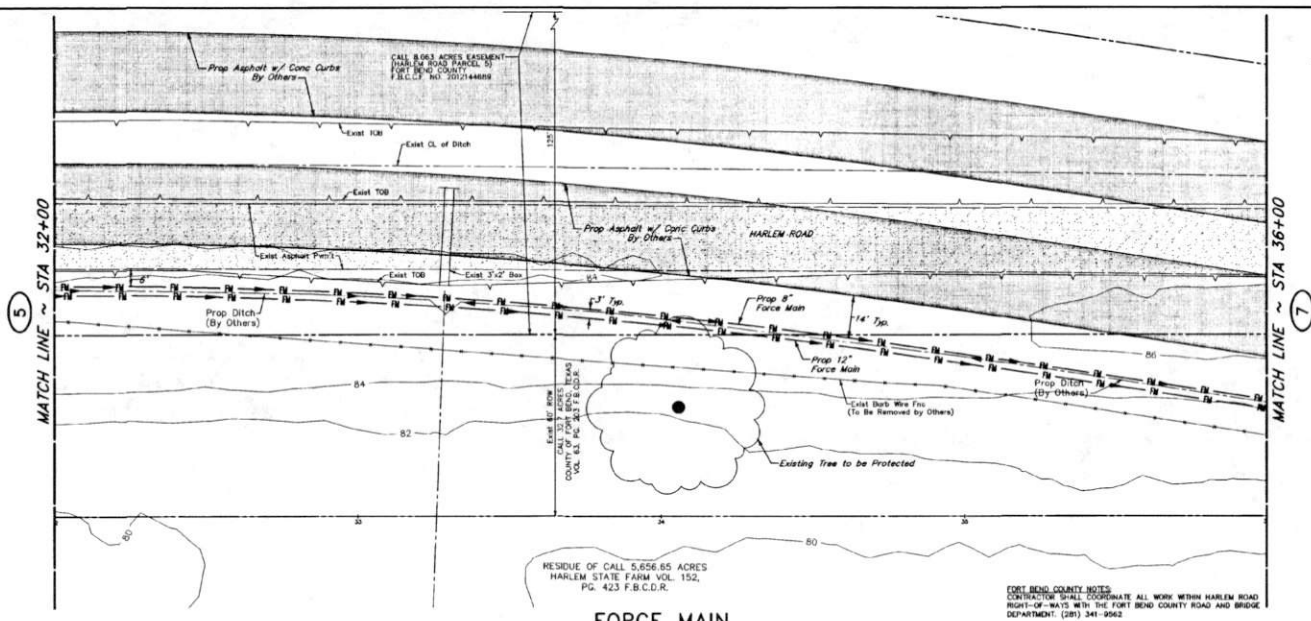
SHEET No. 5 OF 17



FORCE MAIN

RESIDUE OF CALL 5,856.65 ACRES
 HARLEM STATE FARM VOL. 152,
 PG. 423-F-B-C-D-E

FORT BEND COUNTY NOTES:
 CONTRACTOR SHALL COORDINATE ALL WORK WITH HARLEM ROAD RIGHT-OF-WAYS WITH THE FORT BEND COUNTY ROAD AND BRIDGE DEPARTMENT. (281) 341-5562



RESIDUE OF CALL 5,856.65 ACRES
HARLEM STATE FARM VOL. 152,
PG. 423 F.B.C.D.R.

FORT BEND COUNTY NOTES
CONTRACTOR SHALL COORDINATE ALL WORK WITH HARLEM ROAD
RIGHT-OF-WAYS WITH THE FORT BEND COUNTY ROAD AND BRIDGE
DEPARTMENT. (281) 341-9562

FORCE MAIN

100-Year Flood Plain
According to Map No. 4815700140L of the Federal
Emergency Management Agency's Flood Insurance Rate
Map dated April 2, 2014, the subject front is within
Unshaded Zone "X", Shaded Zone "X", and Zone "AE".
Zone "AE" is defined on maps within the 100-Year Flood
Plain. This flood statement does not imply that the
property or structures thereon will be free from flooding
or flood damage. On rare occasions floods can and will
occur and flood heights may be increased by man-made
or natural causes. This flood statement shall not create
liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately
83.0 feet as per the FEMA Insurance Rate Map for Fort
Bend County, Texas Community Panel No. 4815700140L,
dated April 2, 2014. The 100-Year Flood Plain, elevation
83.0, is contained in the shown north of the detention
pond.

BENCH MARK
2008 FORT BEND COUNTY LEAD BENCHMARK NO. 25. "M"
NAIL IN ASPHALT LOCATED 2' S WEST OF THE FIRST
MEDIAN HOSE WEST OF I.A. 308 ON HIGHWAY 40-A.
ELEVATION=84.09 NAVARS (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM
GPS/R. OBSERVATIONS AND UTILIZED GEOSOL.

Prop Asphalt w/ Conc Curbs
By Others

Exist Asphalt Pav't



APPROVED: [Signature] DEVELOPMENT COORDINATOR

DATE: 5/6/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F 419
8228 Oaklawn Dr., Suite 100, Houston, Texas 77061 (713) 777-5337

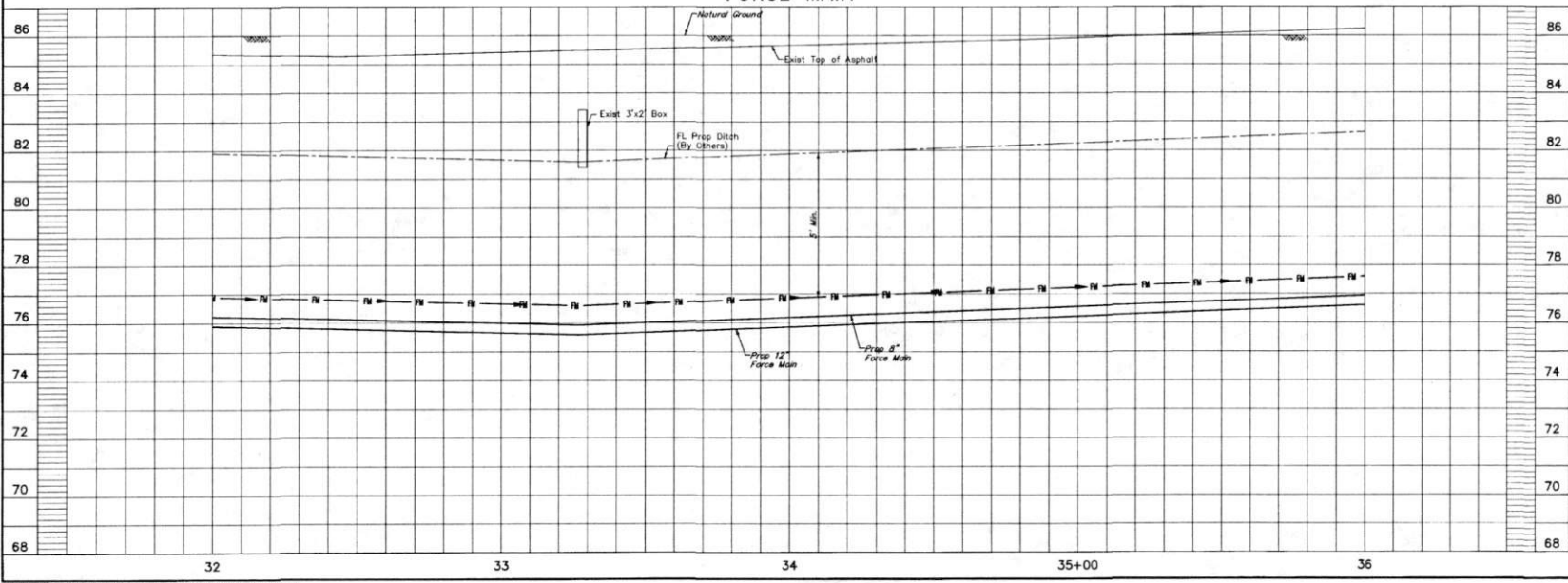
HARLEM ROAD
FORCE MAIN
32+00 TO 36+00

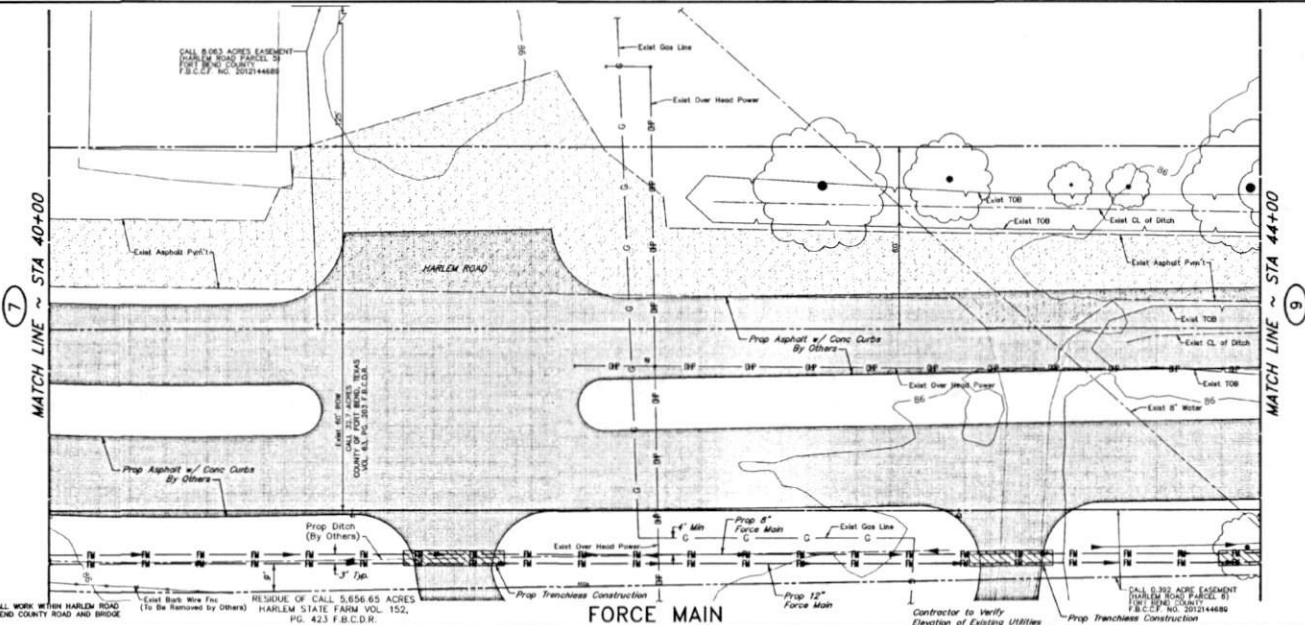
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGN: [Signature]	CHECK & REVISIONS:
DATE: 5/6/15	DATE: [Signature]
SCALE: 1"=20' H 1"=2' V	DATE: [Signature]

FOR CITY OF HOUSTON USE ONLY
CITY ENG. NO.
53946
SCALE: 1"=20' H
1"=2' V
SHEET No. 6 OF 17





100-Year Flood Plain
 According to Map No. 485200142, of the Federal Emergency Management Agency's Flood Insurance Rate Maps dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE". Zone "AE" is defined as areas within the 100-Year Flood Plain. This Road statement does not imply that the property or structures thereon will be free from flooding or Road damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This Road statement shall not create liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Commodity Panel No. 485200142, Dated April 2, 2014. The 100-Year Flood Plain, elevation 83.0, is contained in the channel north of the detention pond.

BENCH MARK
 2006 FORT BEND COUNTY LEARN BENCHMARK NO. 25, "M" HAS AN ASPHALT LOCATED 2' WEST OF THE FIRST METEAN NOSE WEST OF I.A. 306 ON HIGHWAY 49-A. ELEVATION=84.09 MANSION (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEOLOCS.

- Prop Asphalt w/ Conc Curbs By Others
- Exist Asphalt Pav't



APPROVED: *[Signature]* DEVELOPMENT COORDINATOR

DATE: 5/14/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 Texas Board of Professional Engineers Registration No. F 419
 8528 Galloway Dr., Suite 300, Houston, Texas 77061 (713) 771-5227

HARLEM ROAD
**FORCE MAIN
 40+00 TO 44+00**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 5/14/15
 DRAWN: [Signature]
 CHECKED: [Signature]
 IN CHARGE: [Signature]

FILE NO. FOR CITY OF HOUSTON USE ONLY
 JOB NO. 00046-0000-06
 DATE: MARCH 2013
 DOW: [Signature]
 DWS: [Signature]

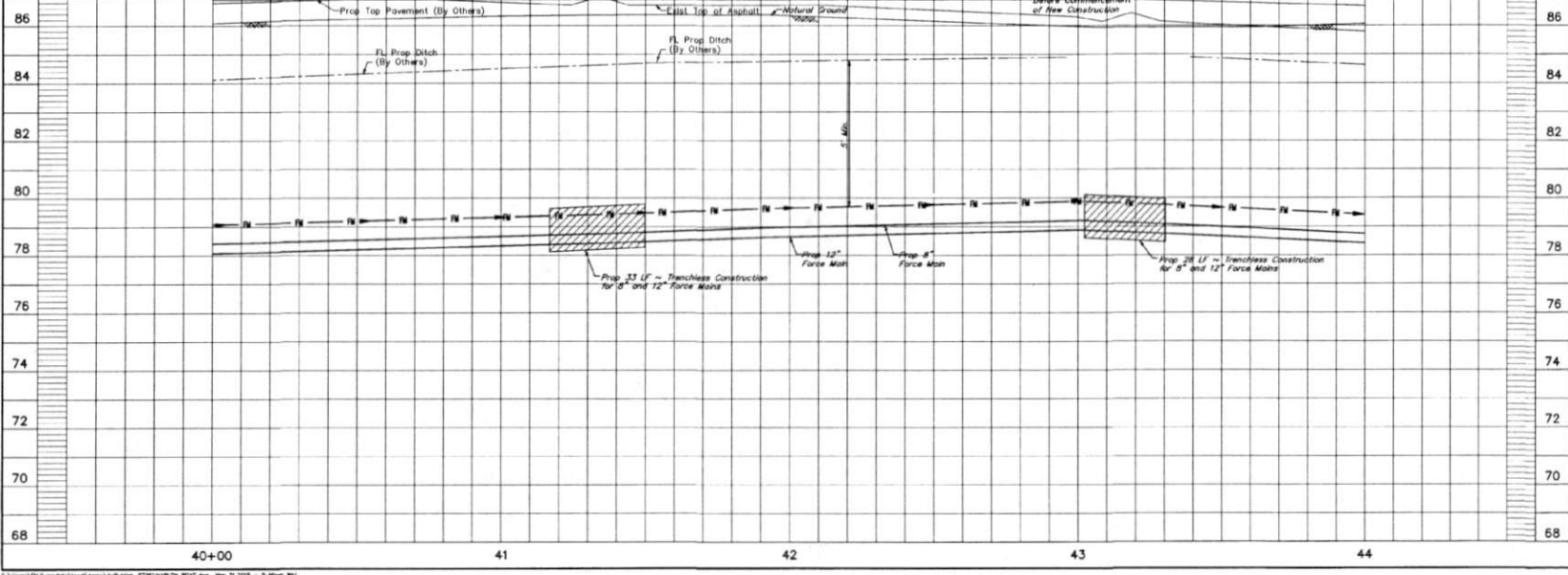
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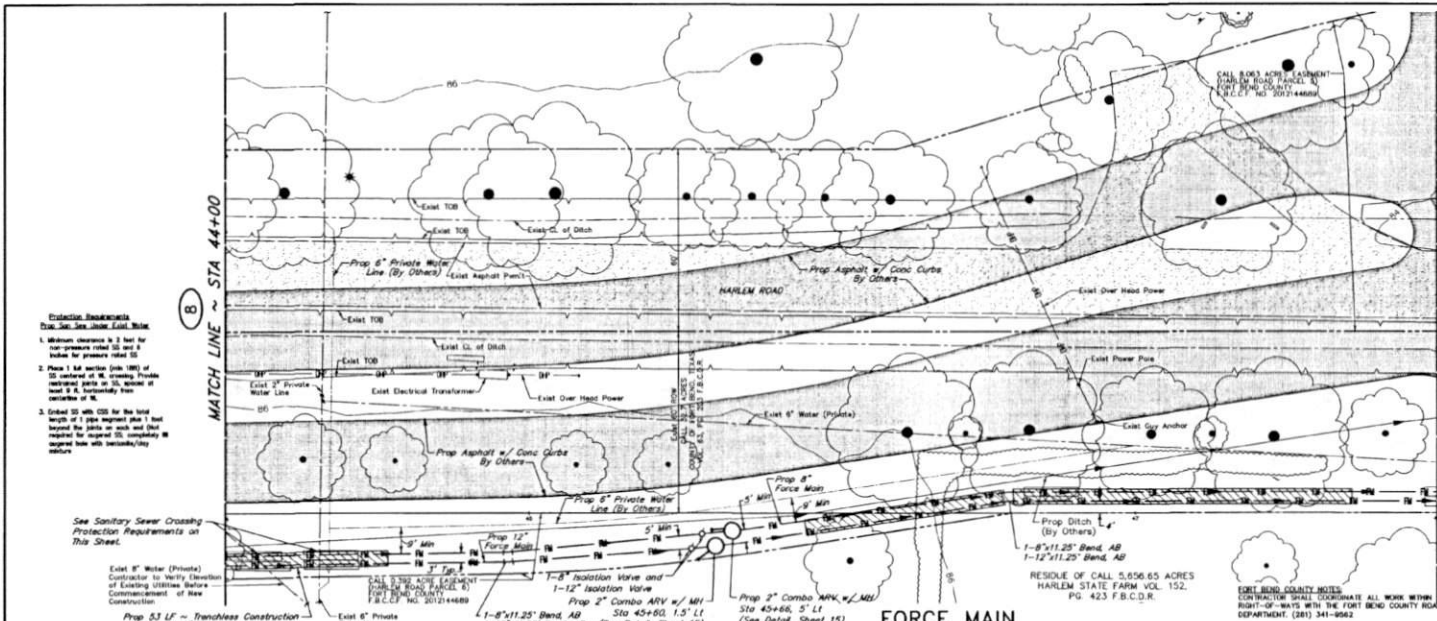
53946

SHEET No. 8 OF 17

FORT BEND COUNTY NOTES
 CONTRACTOR SHALL COORDINATE ALL WORK WITH HARLEM ROAD RIGHT-OF-WAYS WITH THE FORT BEND COUNTY ROAD AND BRIDGE DEPARTMENT (282) 341-1562

RESIDUE OF CALL 5,656.65 ACRES
 HARLEM STATE FARM VOL. 152,
 PG. 423 F.B.C.D.R.





- Protection Requirements**
 1. Minimum clearance is 2 feet for non-pressure rated 12" and 8" pipes for pressure rated 12".
2. Place 1 M section (min 100') of 12" covered or 8" crossing Private residential pipe on 12" covered or 8" on 8" immediately from installation of M.
3. Contact 12" with 12" for the last length of 1 pipe segment that is not beyond the joint or end and that required for required 12" compliance in segment line with installation/lay nature.

See Sanitary Sewer Crossing Protection Requirements on This Sheet.

Exist 8" Water (Private) Contributor to verify location of Existing Utilities Before Commencement of New Construction.

Prop 5.3 LF - Trenchless Construction for 8" and 12" Force Mains

Prop Top Pavement (By Others)

Exist Top of Asphalt

Exist Top of Ditch

Exist Over Head Power

Exist Power Pole

Exist City Anchor

Exist 8" Water (Private)

Exist 8" Private Water Line (By Others)

Exist Electrical Transformer

Exist 12" Force Main

Prop 12" Force Main

Prop 8" Private Water (By Others) Contributor to verify location of Existing Utilities Before Commencement of New Construction.

Prop 8" Force Main

Prop 12" Force Main

Prop 8" Force Main

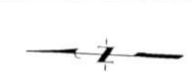
Prop 12" Force Main

Prop 8" Force Main

Prop 12" Force Main

Prop 8" Force Main

Prop 12" Force Main



100-Year Flood Plain
 According to Map No. 48157C0145, of the Federal Emergency Management Agency's Flood Insurance Rate Maps dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE", Zone "AE" is defined as areas within the 100-Year Flood Plain. This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 48157C0145, Dated April 2, 2014. The 100-Year Flood Plain elevation 83.0 is contained in the channel north of the retention pond.

BENCH MARK
 2005 FORT BEND COUNTY LEARN BENCHMARK NO. 25 "M" SHALL BE APPROXIMATELY 3.5' WEST OF THE FIRST MEDIAN ROSE WEST OF F.M. 336 ON HIGHWAY 90-A. ELEVATION=84.29 WAGNER (CROSS ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEODESIC.

- Prop Asphalt w/ Conc Curbs By Others
- Exist Asphalt Pav't



APPROVED: *[Signature]* DEVELOPMENT COORDINATOR

DATE: 5/14/15

REV	DATE	REVISIONS	APP

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 Texas Board of Professional Engineers Registration No. F-439
 6505 South Loop West, Suite 800, Houston, Texas 77058 (713) 771-0330

HARLEM ROAD
FORCE MAIN
 44+00 TO 48+00

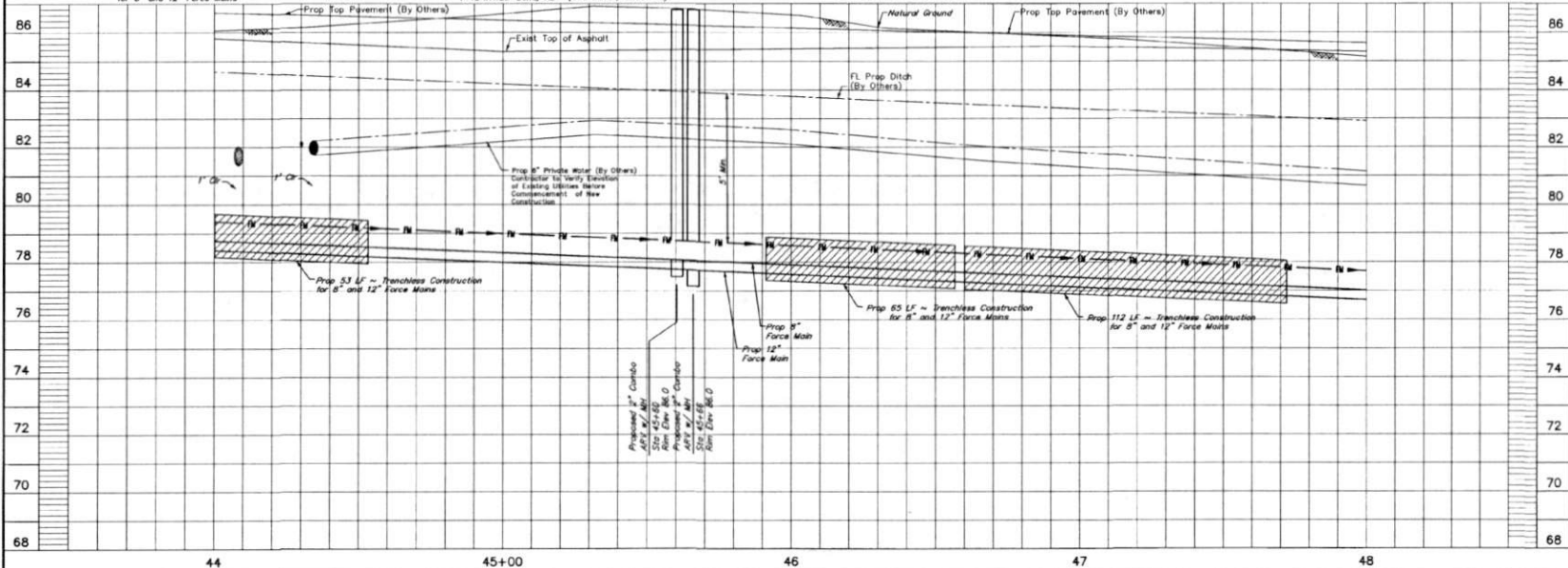
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY LATEST DATE OF SIGNATURES

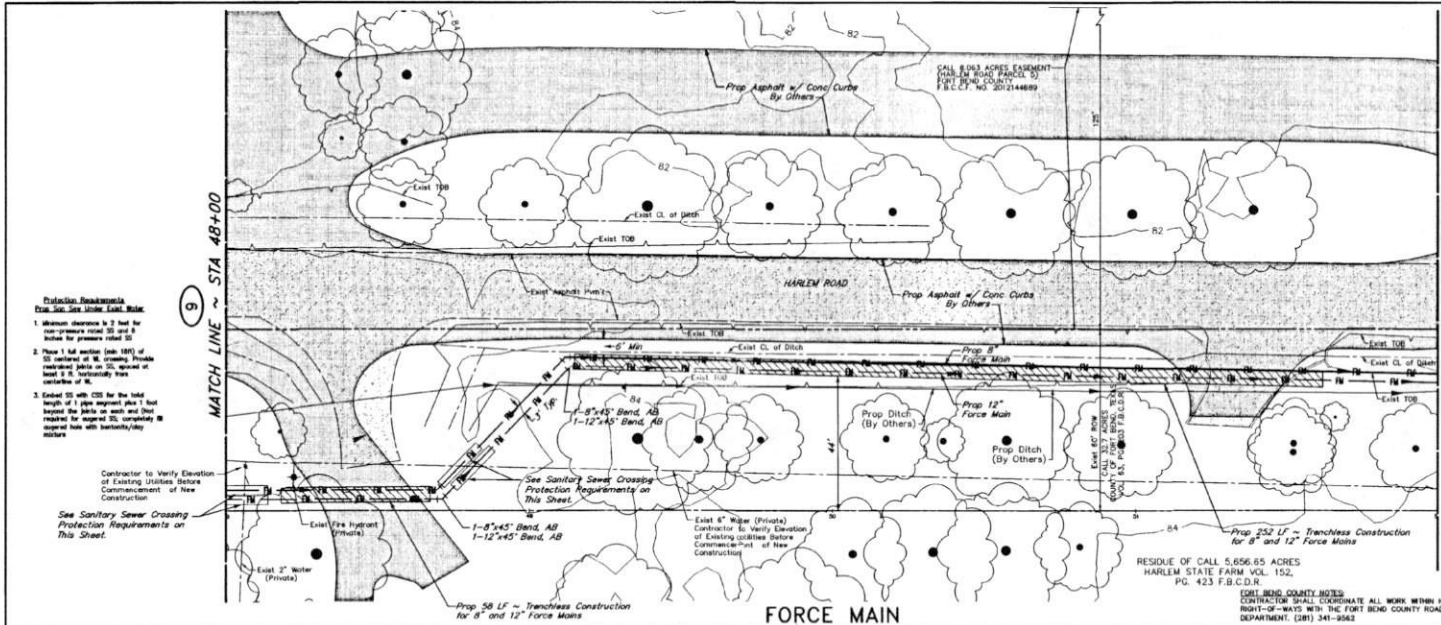
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: 5/14/15
 SCALE: 1"=20' H
 1"=2' V

FOR CITY OF HOUSTON USE ONLY
 CITY DWG NO. **33946**

FILE NO.: 10540-3002-30
 JOB NO.: 10540-3002-30
 DATE: MARCH 2015
 POK BY: DGM
 DWG BY: JCS
 SCALE: 1"=20' H
 1"=2' V
 SHEET NO. 9 OF 17





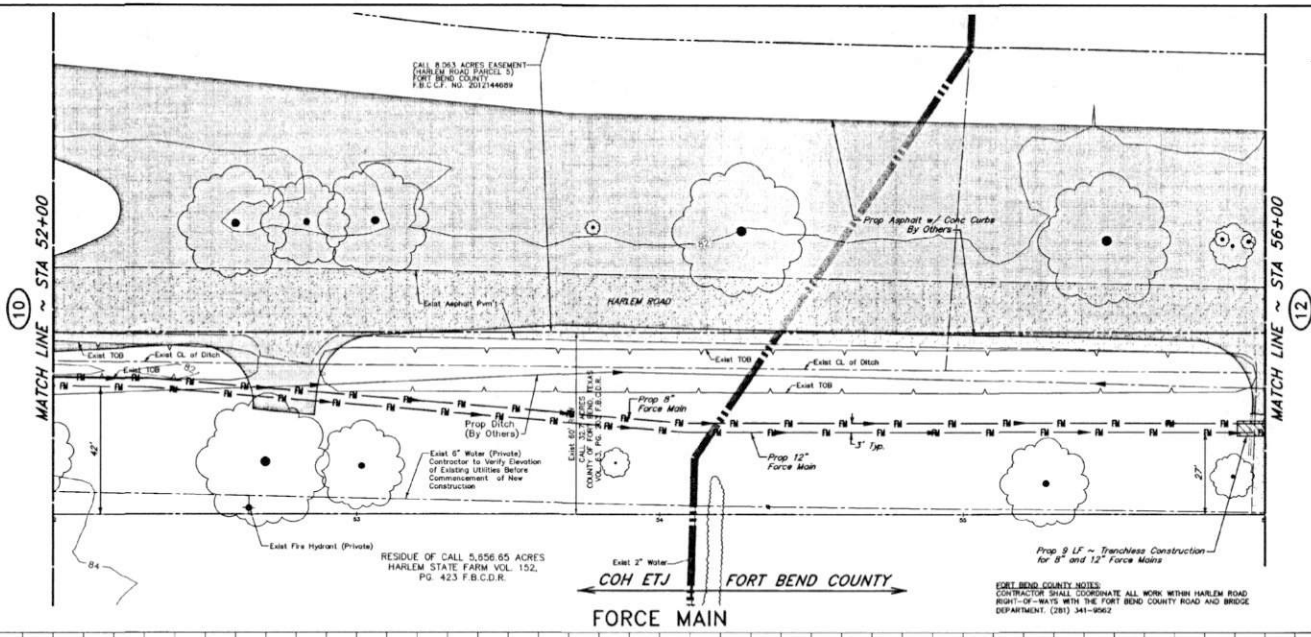
100-Year Flood Plain
 According to map No. 481570D40L of the Federal Emergency Management Agency's Flood Insurance Rate Map dated April 2, 2014, the subject tract is within Unshaded Zone "A", Shaded Zone "X", and Zone "AE". Zone "AE" is defined as areas within the 100-year Flood Plain. This Flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This Flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year Base Flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 481570D40L, dated April 2, 2014. The 100-Year Flood Plain, elevation 83.0, is contained in the channel north of the detention pond.

BENCH MARK
 2000 FORT BEND COUNTY LEARN BENCHMARK NO. 25, 7x4" NAIL IN ASPHALT LOCATED 2.5' WEST OF THE FIRST MEASURE POINT WEST OF F.M. 306 ON HIGHWAY 80-A, ELEVATION=84.00 NAVD83 (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEOID03.

PROTECTION REQUIREMENTS
 From Site See Utility Easement Note
 1. Minimum clearance is 2 feet for non-pressure pipes 36" and 3 feet for pressure pipes.
 2. Pipe 1-1/2" and smaller (and 100' of 36" and 48" and 60" and 72" and 90" and 108" and 120" and 144" and 180" and 216" and 240" and 300" and 360" and 420" and 480" and 540" and 600" and 660" and 720" and 780" and 840" and 900" and 960" and 1020" and 1080" and 1140" and 1200" and 1260" and 1320" and 1380" and 1440" and 1500" and 1560" and 1620" and 1680" and 1740" and 1800" and 1860" and 1920" and 1980" and 2040" and 2100" and 2160" and 2220" and 2280" and 2340" and 2400" and 2460" and 2520" and 2580" and 2640" and 2700" and 2760" and 2820" and 2880" and 2940" and 3000" and 3060" and 3120" and 3180" and 3240" and 3300" and 3360" and 3420" and 3480" and 3540" and 3600" and 3660" and 3720" and 3780" and 3840" and 3900" and 3960" and 4020" and 4080" and 4140" and 4200" and 4260" and 4320" and 4380" and 4440" and 4500" and 4560" and 4620" and 4680" and 4740" and 4800" and 4860" and 4920" and 4980" and 5040" and 5100" and 5160" and 5220" and 5280" and 5340" and 5400" and 5460" and 5520" and 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100-Year Flood Plain
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Note: The 100-Year base Flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 48157C0140L, dated April 2, 2014. The 100-Year Flood plain, elevation 83.0, is contained in the channel north of the detention pond.

BENCH MARK
 2003 FORT BEND COUNTY LEAD BENCHMARK NO. 25, 7/4" NAIL IN ASPHALT LOCATED 2.0' WEST OF THE FIRST MEDIAN HOSE WEST OF I.A. 208 ON HIGHWAY 49-A. ELEVATION=84.09 NAVD83 (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEOID03.

Prop Asphalt w/ Conc Curbs By Others
 Exist Asphalt Pav't



APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 5/4/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 Texas Board of Professional Engineers Registration No. F-418
 6028 Oaktree Dr., Suite 100, Houston, Texas 77061 (713) 777-6237

HARLEM ROAD
**FORCE MAIN
 52+00 TO 56+00**

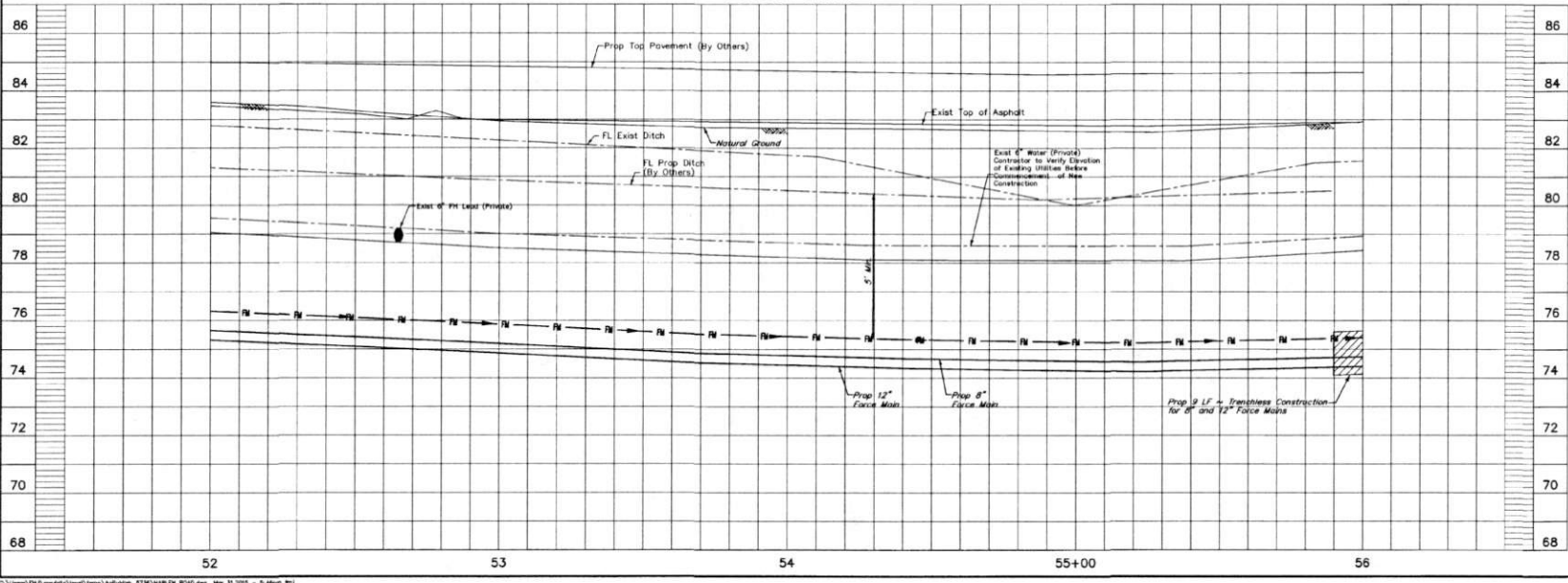
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

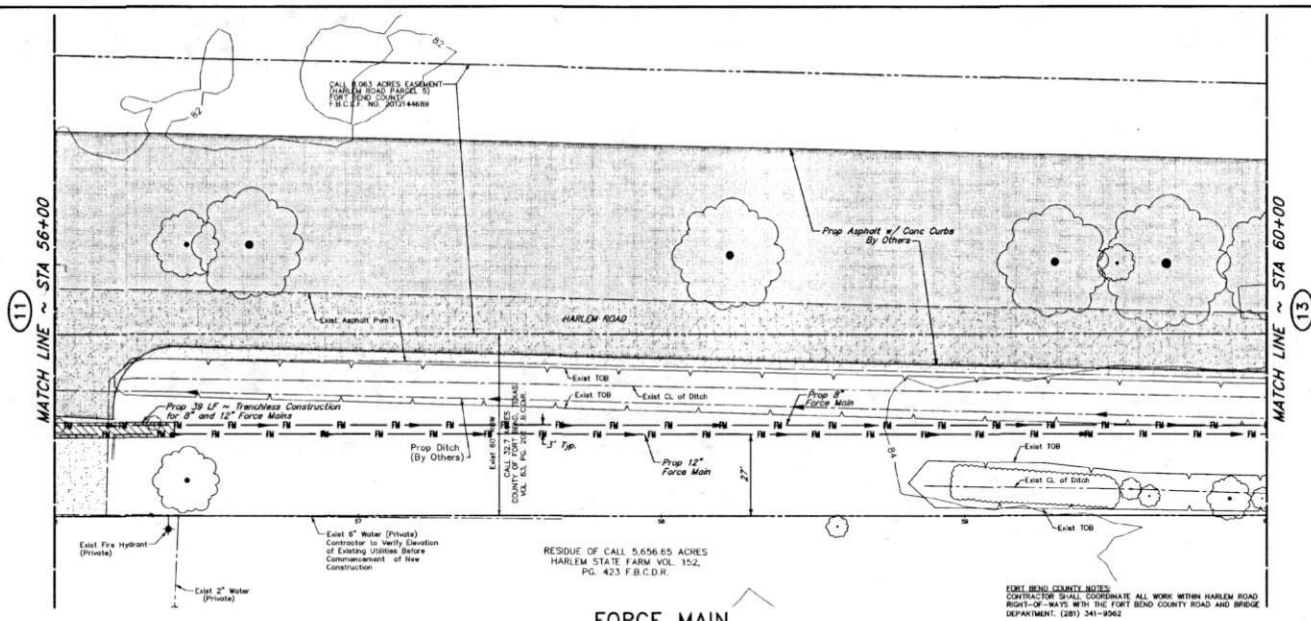
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGNED BY: *[Signature]* CHECKED BY: *[Signature]*
 DRAWN BY: *[Signature]* DATE: 5/4/15
 SCALE: 1"=20' H, 1"=2' V



SHEET No. 11 of 17





100-Year Flood Plain
 According to Map No. 48157C0140L of the Federal Emergency Management Agency's Flood Insurance Rate Map dated April 2, 2014, the subject flood is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE". Zone "AE" is defined as areas within the 100-Year Flood Plain. This Flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This Flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year base Flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Panel No. 48157C0140L, Dated April 2, 2014. The 100-Year Flood Plain, elevation 83.0, is contained in the channel north of the detention pond.

BENCH MARK
 2500 FORT BEND COUNTY LEAP BENCHMARK NO. 23, 7th NAIL IN ASPHALT LOCATED 2.5' WEST OF THE FIRST METEAN NOSE WEST OF I.A. 208 ON HIGHWAY 49-A, ELEVATION=84.09 NAVD83 (2001 ADJUSTMENT)

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED SBAS.

Prop Asphalt w/ Conc Curbs By Others

Exist Asphalt Pav't



APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 5/15/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 State Board of Professional Engineers Registration No. 4-439
 6506 Oaklawn Dr., Suite 100, Houston, Texas 77057 (713) 777-5337

HARLEM ROAD

**FORCE MAIN
 56+00 TO 60+00**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

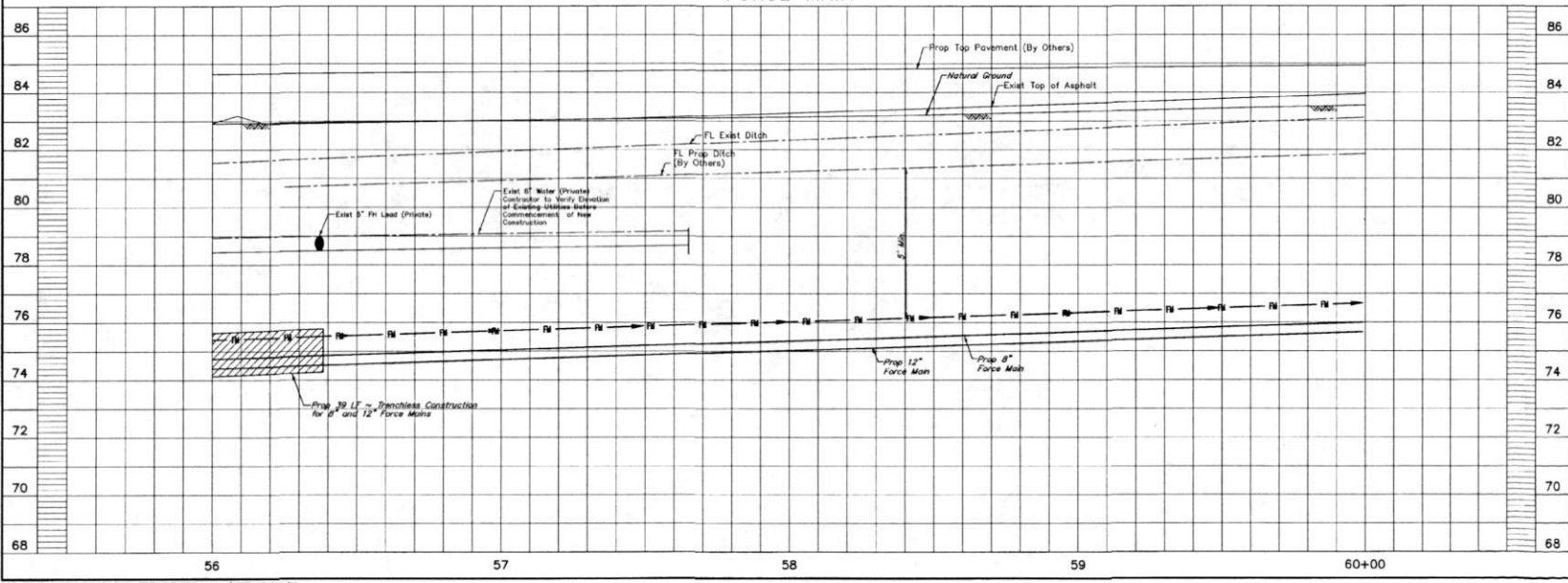
DESIGNED BY: <i>[Signature]</i>	DRAWN BY: <i>[Signature]</i>
CHECKED BY: <i>[Signature]</i>	IN CHARGE BY: <i>[Signature]</i>

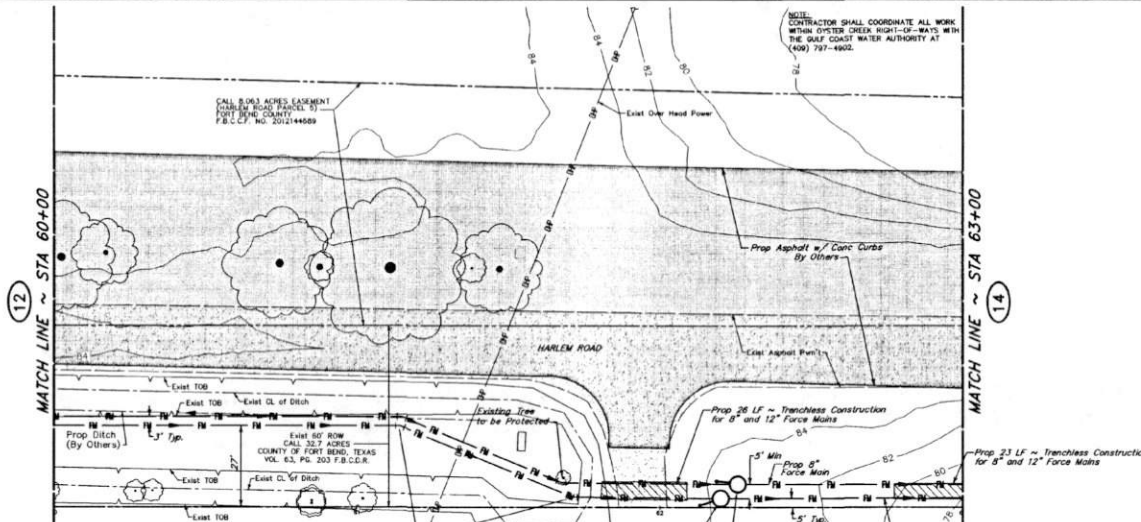
FILE NO.:
 JOB NO. 102461-0002-00

DATE: MARCH 2010
 DGN. BY: CCJ
 DWG. BY: SJC

SCALE: 1"=20' H
 1"=2' V

SHEET No. 12 OF 17

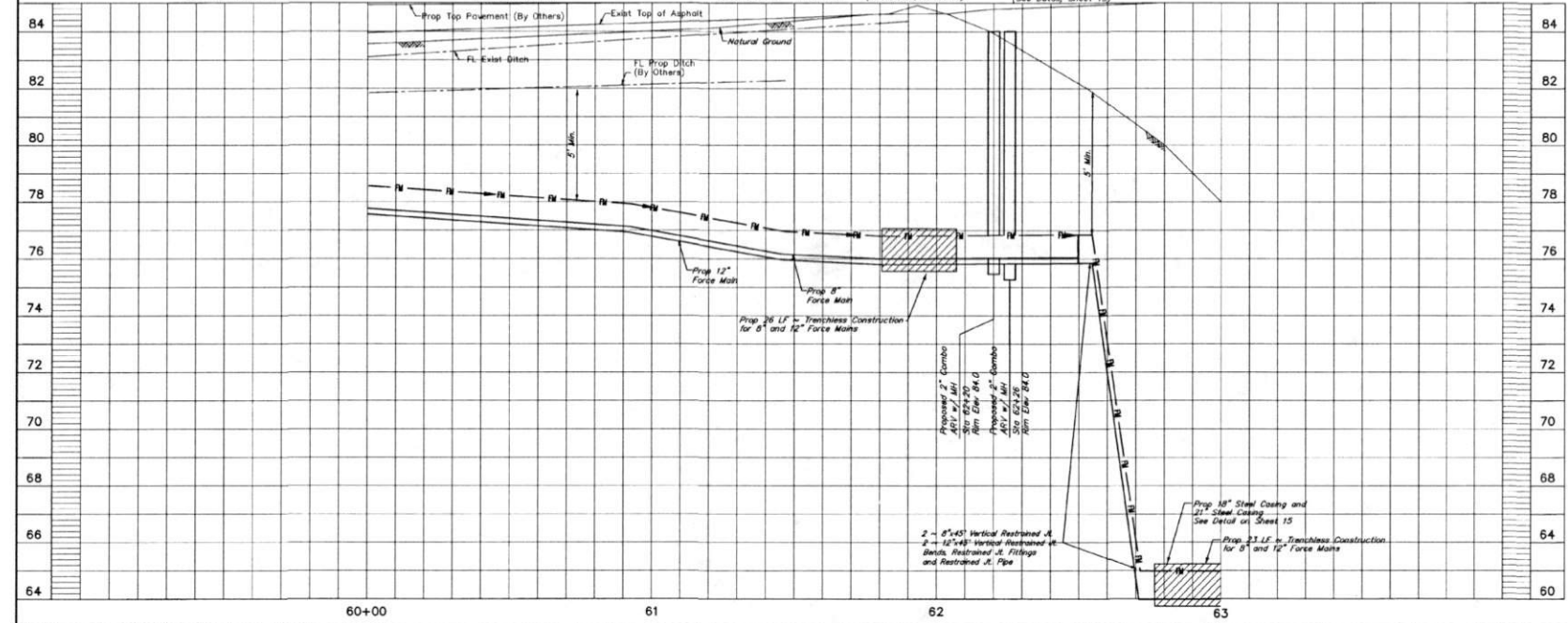




FORT BEND COUNTY NOTES
 CONTRACTOR SHALL COORDINATE ALL WORK WITHIN HARLEM ROAD RIGHT-OF-WAYS WITH THE FORT BEND COUNTY ROAD AND BRIDGE DEPARTMENT. (281) 341-6963

RESIDUE OF CALL 5,656.65 ACRES
 HARLEM STATE FARM VOL. 152,
 PG. 423 F.B.C.D.R.

FORCE MAIN
 Prop 2" Combo ARV w/ MH Sta 62+20, 5' LT (See Detail, Sheet 15)
 Prop 2" Combo ARV w/ MH Sta 62+26, 8' LT (See Detail, Sheet 15)
 Prop 12" Force Main
 Prop 26 LF - Trenchless Construction for 8" and 12" Force Mains
 Prop 26 LF - Trenchless Construction for 8" and 12" Force Mains
 Prop 26 LF - Trenchless Construction for 8" and 12" Force Mains



APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 5/6/15

NO.	DATE	REVISIONS	APPV

FORT BEND COUNTY MUD No. 134D
 FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 Texas Board of Professional Engineers Registration No. 1-4-13
 6326 Gullen Dr., Suite 100 Houston, Texas 77061 (713) 771-6207

HARLEM ROAD
FORCE MAIN
60+00 TO 63+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

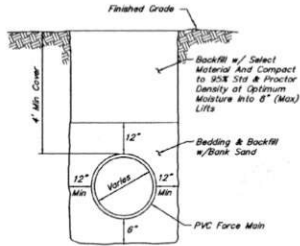
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 5/6/15
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 IN CHARGE: [Signature]

FILE NO: 05940-0002-00
 DATE: MARCH 2015
 DOK BY: CCJ
 DWG BY: AJG
 SCALE: 1"=20' H
 1"=42' V

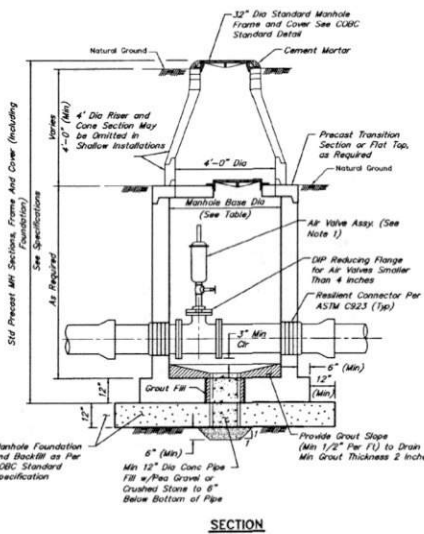
FOR CITY OF HOUSTON USE ONLY
 CITY ENGINEER
58946
 CITY OF HOUSTON

SHEET NO. 13 OF 17



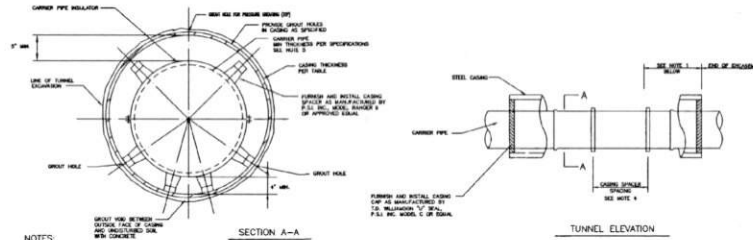
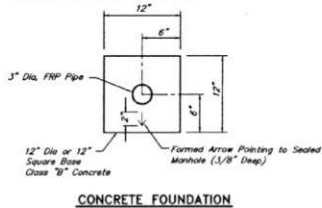
**FORCE MAIN
BEDDING AND BACKFILL**
NOT TO SCALE

TABLE	
MANHOLE BASE DIAMETER	MAX. FORCE MAIN DIAMETER
4	8
4	12



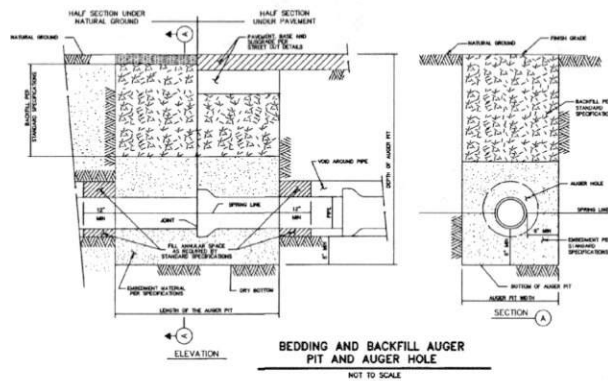
**SANITARY SEWER
AIR RELEASE OR AIR/VACUUM
RELEASE VALVE MANHOLE**
NOT TO SCALE

- NOTES:**
- Air valve shall be a 2-inch (2") Sewage Combination Air Valve with a 1/16" orifice, APCO Series 440 SCAV or approved equal.
 - See specifications for air valve assembly requirements.
 - Provide lined ductile iron pipe, thick class 53, for force main within 12" of outside face of manhole. Joints within manhole may be flanged (as shown) or grooved (per ASTM 606) within manhole, with 316 stainless steel bolts.
 - Manhole top may be concentric cone, eccentric cone, or flat top with eccentric opening. Provide 32" frame & cover. Orient eccentric opening opposite side from air valve.
 - Provide vented manhole for air and vacuum valve installations and at locations indicated on the drawings.



- NOTES:**
- MINIMUM WALL THICKNESS SHALL BE AS SHOWN IN THIS PLAN & PROFILE DRAWING.
 - ALL CASING PIPE IS 304 OR 316 STAINLESS STEEL OR 304 OR 316 L.P.S. OR APPROVED EQUAL.
 - MINIMUM JOINT GASKET SHALL BE 1/2" THICK.
 - MINIMUM JOINT GASKET SHALL BE 1/2" THICK.

CASING DETAIL
NOT TO SCALE
(FOR WATER MAINS AND FORCE MAINS LESS THAN 36-INCHES IN DIAMETER)



**BEDDING AND BACKFILL AUGER
PIT AND AUGER HOLE**
NOT TO SCALE

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 5/1/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
ENGINEERS - PLANNERS - SURVEYORS
Texas Board of Professional Engineers Registration No. F-433
8338 Galloway Dr., Suite 100, Houston, Texas 77057 (713) 777-6237

HARLEM ROAD

MISCELLANEOUS DETAILS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO. 15840-5020-00
JOB NO. 15840-5020-00
DATE: MARCH 2015
DWN BY: JLG
ENR BY: JLG
SCALE: N.T.S.

FOR CITY OF HOUSTON USE ONLY
CITY ENG. NO.

DATE: MARCH 2015
DWN BY: JLG
ENR BY: JLG

SCALE: N.T.S.

SHEET NO. 15 OF 17



CALL 101.79 ACRES (TRACT TWO)
STATE OF TEXAS, FOR THE USE AND
BENEFIT OF THE PERMANENT SCHOOL
FUND F.B.C.C.F. NO. 2004060103 &
2004075320 (AMENDED)

RESIDUE OF CALL 5,656.65 ACRES
HARLEM STATE FARM VOL. 152,
PG. 423 F.B.C.D.R.

RESIDUE OF CALL 5,656.65 ACRES
HARLEM STATE FARM VOL. 152,
PG. 423 F.B.C.D.R.

WILLIAM MORTON ONE AND
ONE-HALF LEAGUE GRANT,
ABSTRACT NO. 62

JANE WILKINS ONE LEAGUE GRANT,
ABSTRACT NO. 96

RESIDUE OF CALL 5,656.65 ACRES
HARLEM STATE FARM VOL. 152,
PG. 423 F.B.C.D.R.

LIFT STATION
SITE

MATCH LINE A

MATCH LINE B

MATCH LINE A

MATCH LINE B



LEGEND

- STABILIZED CONSTRUCTION ACCESS
- FILTER FABRIC FENCE

EROSION AND SEDIMENTATION CONTROL NOTES

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATION SHOWN ON PLANS.
2. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED HEREIN, AT A MINIMUM OF ONCE EVERY CALENDAR DAY.
3. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT (NO SEPARATE PAY).
4. CONTRACTOR SHALL PROMOTE PROHIBITED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
5. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER DRAINAGE SYSTEMS. CONTRACTOR SHALL USE SILT TRAPPING, PATT BALES, OR BUNDING AROUND FUEL STORAGE AREAS. (NO SEPARATE PAY).
6. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY VERBALLY AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTION TAKEN TO REMEDY THE PROBLEM.
7. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS AND CONTAMINATED DEBRIS IN A LEGALLY APPROVED MANNER. (NO SEPARATE PAY).
8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
9. CONTRACTOR IS RESPONSIBLE FOR PROMOTING ADEQUATELY MAINTAINED SANITARY FACILITIES.
10. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEM BEFORE RELYING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
11. IF EROSION AND SEDIMENTATION CONTROL SYSTEM IS EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEM FOR DAMAGE PRIOR TO CONTRACTOR STARTING CONSTRUCTION OF THE CONTRACT. ANY DAMAGE NOTED AT THIS TIME SHALL BE REPAIRED AT OWNER'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING ON A DAILY BASIS, ALL WED AND SUNT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
13. IF PAVING CONTRACTOR REMOVES OR PUNCTURES RUBBER GATE TO ESTABLISH DRAINAGE, RUBBER GATE WILL BE SURROUNDED BY FILTER FABRIC FENCE AS SHOWN IN DETAIL ON THIS SHEET.

INSTALLATION SEQUENCE

- UTILITY CONTRACTOR
1. Install at start of construction.
 2. Install in Ditch or Shovel.
3. Area within ROW and Adjacent Elements Disturbed during Construction of Utilities to be Hydro-Mulch Seeded upon completion of Utilities.
- Utility Contractor to follow all protection requirements and complete all forms as listed in bound SWPPP.

100-Year Flood Plain
According to Map No. 4837020140L of the Federal Emergency Management Agency's Flood Insurance Rate Maps dated April 2, 2014, the subject tract is within Unshaded Zone "X", Shaded Zone "X", and Zone "AE". Zone "AE" is defined as areas within the 100-Year Flood Plain. This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.

Note: The 100-Year base flood elevation is approximately 83.0 feet as per the FEMA Insurance Rate Map for Fort Bend County, Texas Community Flood No. 4837020140L, dated April 2, 2014. The 100-Year Flood Plain elevation 83.0 is contained in the closure north of the diversion pond.

BENCH MARK
2000 FORT BEND COUNTY LEAP BENCHMARK NO. 25 "M" IS A BENCHMARK LOCATED 2.5 WEST OF THE FIRST MILEAN NODE, WEST OF F.M. 358 ON HIGHWAY 90-A. ELEVATION=89.94 Meters (2950) ADJUSTMENT

NOTE: ALL ELEVATIONS SHOWN WERE DERIVED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEODESIC.

- Prop Asphalt w/ Conc Curbs By Others
- Existing Asphalt Pavement

APPROVED:
DEVELOPMENT COORDINATOR

DATE: 5/4/15

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Equal Board of Professional Engineers Registration No. F-419
8022 Galveston, Suite 100 Houston, Texas 77054 (713) 778-6300

HARLEM ROAD

STORM WATER POLLUTION PREVENTION PLAN

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY EXPIRES DATE OF SUBMITTALS

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ISSUED: DATE & INSPECTION:

STOWN: NEW WATER QUALITY:

STREET & INSECT: IAL 4-2-15



FILE NO. _____ FOR CITY OF HOUSTON USE ONLY

JOB NO. 02540-0020-00 CITY DWG NO. _____

DATE: MARCH 2015

DESIGN BY:

SCALE: 1"=100'

SHEET NO. 16 OF 17

53946

