



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

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

Right of Way Permit
 Commercial Driveway Permit
Permit No: 2017-12746

Applicant: DVL Enterprises, LLC

Job Location Site: Cinco Trace Drive, Katy, TX 77494

Bond No. [REDACTED] **Date of Bond:** 3/23/2017 **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 inconsistant 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 11th day of April, 2017, Upon Motion of Commissioner Morales, seconded by Commissioner Meyers, 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
By: Charles O. Ay
for County Engineer

By: N/A
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
Date Recorded 4-17-2017 Comm. Court No. 12G
Clerk of Commissioners Court
By: Deonda Wilkes
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@fortbendcountytx.gov

- Right of Way Permit
 Commercial Driveway Permit

Permit No: 2017-12746

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:

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | a. Name of road, street, and/or drainage ditch affected. |
| <input checked="" type="checkbox"/> | b. Vicinity map showing course of directions |
| <input checked="" type="checkbox"/> | c. Plans and specifications |

(2) BOND:

- | | | | |
|-------------------------------------|--|---|--------------------|
| <input type="checkbox"/> | County Attorney, approval when applicable. | | |
| <input type="checkbox"/> | Perpetual bond currently posted. | Bond No: _____ | Amount: _____ |
| <input checked="" type="checkbox"/> | Performance bond submitted. | Bond No: XXXXXXXXXX | Amount: \$5,000.00 |
| <input type="checkbox"/> | Cashier's Check | Check No: _____ | Amount: _____ |

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

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

Charley O. AJ

Permit Administrator

4/3/17

Date

34



**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD
AUTHORIZED**

BOND NO [REDACTED]

THE STATE OF TEXAS §
COUNTY OF FORT BEND §
KNOW ALL MEN BY THESE PRESENTS:

THAT WE, DVL Enterprises, LLC whose address is 4022 Cedar Forest, Kingwood Texas, hereinafter called the Principal, And The Guarantee Company of North America USA, a Corporation existing under and by virtue of the laws of the state of Michigan and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at 350 Glenborough Dr., Suite 138, Houston, TX 77067, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Erica A. Cox and Whose address is 26623 Oak Ridge Drive, The Woodlands, TX 77380, 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 Dollars and 00/100 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 23rd day of March, 2017.

DVL Enterprises, LLC
PRINCIPAL

BY _____

The Guarantee Company of North America USA
SURETY

BY Erica A. Cox, Attorney-in-Fact

CCM 4-11-17 # 126
Fort Bend County Clerk
Return Admin Serv Coord RAC



The Guarantee Company of North America USA
Southfield, Michigan

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS: That THE GUARANTEE COMPANY OF NORTH AMERICA USA, a corporation organized and existing under the laws of the State of Michigan, having its principal office in Southfield, Michigan, does hereby constitute and appoint

Edward Arens, Philip Baker, Michele Bonnin, Jillian McKenzie, Erica A. Cox, Rebecca Garza
Technical Assurance, L.L.C.

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise.

The execution of such instrument(s) in pursuance of these presents, shall be as binding upon THE GUARANTEE COMPANY OF NORTH AMERICA USA as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at the principal office.

The Power of Attorney is executed and may be certified so, and may be revoked, pursuant to and by authority of Article IX, Section 9.03 of the By-Laws adopted by the Board of Directors of THE GUARANTEE COMPANY OF NORTH AMERICA USA at a meeting held on the 31st day of December, 2003. The President, or any Vice President, acting with any Secretary or Assistant Secretary, shall have power and authority:

- 1. To appoint Attorney(s)-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof; and
2. To revoke, at any time, any such Attorney-in-fact and revoke the authority given, except as provided below
3. 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.
4. 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.

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of the Company adopted at a meeting duly called and held on the 6th day of December 2011, of which the following is a true excerpt:

RESOLVED that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, contracts of indemnity and other writings obligatory in the nature thereof, and such signature and seal when so used shall have the same force and effect as though manually affixed.



IN WITNESS WHEREOF, THE GUARANTEE COMPANY OF NORTH AMERICA USA has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 2nd day of October, 2015.

THE GUARANTEE COMPANY OF NORTH AMERICA USA

[Signature of Stephen C. Ruschak]

[Signature of Randall Musselman]

STATE OF MICHIGAN
County of Oakland

Stephen C. Ruschak, President & Chief Operating Officer

Randall Musselman, Secretary

On this 2nd day of October, 2015 before me came the individuals who executed the preceding instrument, to me personally known, and being by me duly sworn, said that each is the herein described and authorized officer of The Guarantee Company of North America USA; that the seal affixed to said instrument is the Corporate Seal of said Company; that the Corporate Seal and each signature were duly affixed by order of the Board of Directors of



Cynthia A. Takai
Notary Public, State of Michigan
County of Oakland
My Commission Expires February 27, 2018
Acting in Oakland County

IN WITNESS WHEREOF, I have hereunto set my hand at The Guarantee Company of North America USA offices the day and year above written.

[Signature of Cynthia A. Takai]

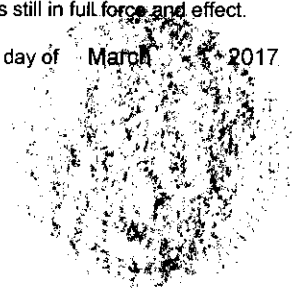
I, Randall Musselman, Secretary of THE GUARANTEE COMPANY OF NORTH AMERICA USA, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by THE GUARANTEE COMPANY OF NORTH AMERICA USA, which is still in full force and effect.



IN WITNESS WHEREOF, I have thereunto set my hand and attached the seal of said Company this 23rd day of March 2017

[Signature of Randall Musselman]

Randall Musselman, Secretary





TEXAS CONSUMER NOTICE

1. IMPORTANT NOTICE

To obtain information or make a complaint:

- You may contact your **agent** at:
- You may call The Guarantee Company of North America USA's toll-free telephone number for information or to make a complaint at: 1-866-328-0567
- You may also write to The Guarantee Company of North America USA at:

One Towne Square, Suite 1470
Southfield, Michigan 48076
Web: www.theguaranteeus.com
E-mail: Info@theguaranteeus.com
Fax: 248-750-0431

- 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:
333 Guadalupe Street
P.O. Box 149104
Austin, TX 78701
Fax: (512) 490-1007
Web: <http://www.tdi.texas.gov>
E-mail: ConsumerProtection@tdi.texas.gov

7. PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should contact the (agent) (company) (agent or the company) first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

8. ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

- Puede comunicarse con su **agent** al
- Usted puede llamar al numero de telefono gratis de The Guarantee Company of North America USA's para informacion o para someter una queja al: 1-866-328-0567

Usted tambien puede escribir a to The Guarantee Company of North America USA;

One Towne Square, Suite 1470
Southfield, Michigan 48076
Web: www.theguaranteeus.com
E-mail: Info@theguaranteeus.com
Fax: 248-750-0431

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al: 1-800-252-3439

Puede escribir al Departamento de Seguros de Texas:
333 Guadalupe Street
P.O. Box 149104
Austin, TX 78701
Fax: (512) 490-1007
Web: <http://www.tdi.texas.gov>
E-mail: ConsumerProtection@tdi.texas.gov

DISPUTAS SOBRE PRIMAS O RECLAMOS:

Si tiene una disputa concierne a su prima o a un reclamo, debe comunicarse con el (agente) (la compania) agente o la compania) primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del document adj unto.

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard

Laura Richard, County Clerk
Fort Bend County, Texas

April 17, 2017 02:36:44 PM

FEE: \$0.00 MAN
BOND

2017040073

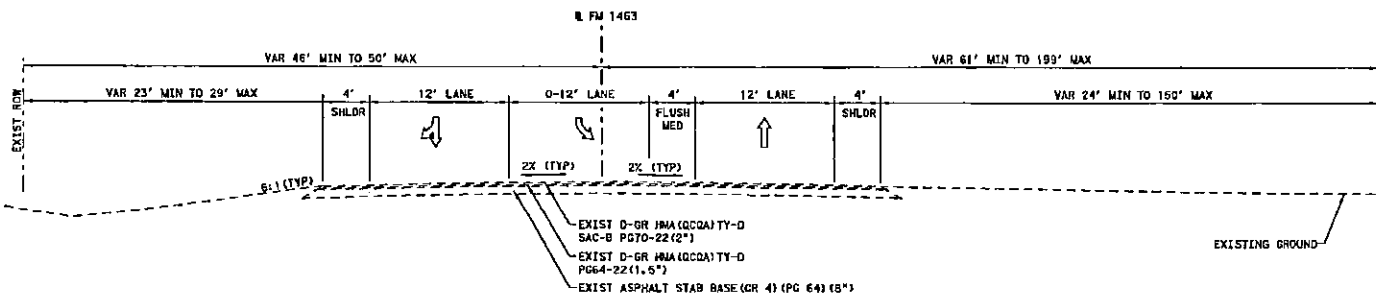
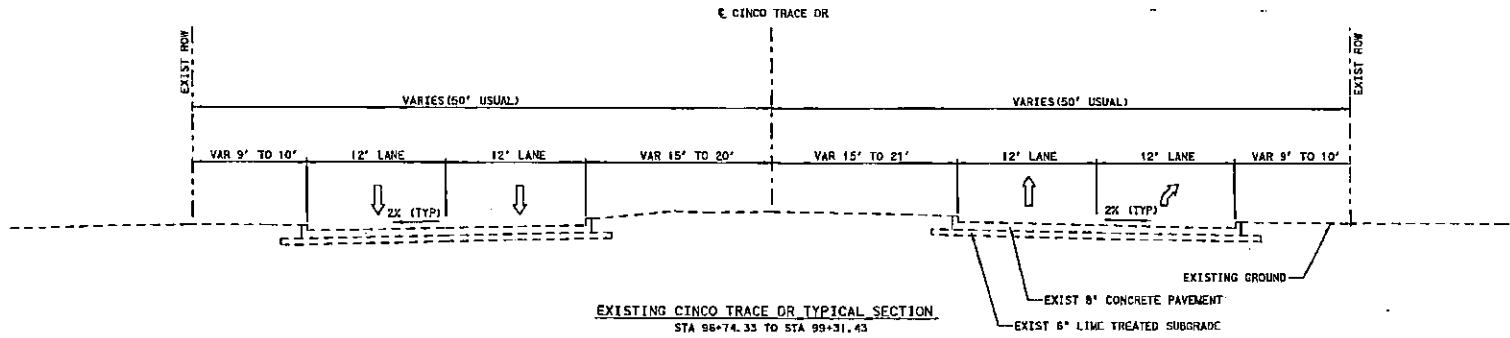


11/26/21 AM

8/2/21

FOR TABLE: T:\PROJECTS\1463\1463.TB
FILE: 1463\1463.TYPICAL SECTIONS\1463.TYPICAL

FILE: 1463\1463.TYPICAL SECTIONS\1463.TYPICAL



NOA 7/21/16

Gregory A. Ofield
8/3/2015

FORT BEND COUNTY, TEXAS

BC Brown & Gray Engineers, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-409-4700 • www.browngrey.com
TSP E Registration No. F-1518

FM 1463 AT CINCO TRACE DR

TYPICAL SECTIONS

EXISTING

SHEET 1 OF 2

0 5 10 FEET

DESIGNED BY	CK	CHECKED BY	APP'D	DATE
HT	LD	BT		8/3/2015

1463.TYPICAL SECTIONS

County: Fort Bend
Highway: FM 1463

General Notes:

General:

If fixed features require, the governing slopes shown may vary between the limits shown and to the extent determined by the Engineer.

Superelevate the curves to match the existing surface.

Notify the Engineer immediately if discrepancies are discovered in the horizontal control or the benchmark data.

The following standard detail sheets are modified:

Modified Standards
N/A

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.

The cost for materials, labor, and incidentals to provide for traffic across the roadway and for ingress and egress to private property in accordance with Section 7.2.4 of the standard specifications is subsidiary to the various bid items. Restore access roadways to their original condition upon completing construction.

Grade street intersections and median openings for surface drainage.

If a foundation is to be placed where a pipecap surface or an asphalt concrete surface presently exists, use caution in breaking out the existing surface for placement. Break out no greater area than is required to place the foundation. After placing the foundation, wrap the periphery with 0.5 in. pre-molded mastix expansion joint. Then replace the remaining portion of the broken out surface with Class A or Class C concrete or cold mix asphalt concrete to the exact slope, pattern, and thickness of the existing wrap or asphalt. Payment for breaking out the existing surface, wrapping the foundation, and replacing the surface is subsidiary to the various bid items.

The lengths of the posts for ground mounted signs and the tower legs for the overhead sign supports are approximate. Verify the lengths before ordering these materials to meet the existing field conditions and to conform to the minimum sign mounting heights shown in the plans.

Furnish aluminum Type A signs instead of plywood signs for signs shown on the Summary of Small Signs sheet.

General Notes

Sheet A

County: Fort Bend
Highway: FM 1463

Stencil the National Bridge Inventory (NBI) number on each existing bridge shown on these plans. The NBI number is shown above the title block for each bridge layout.

Clearly mark or highlight on the shop drawings, the items being furnished for this project. Submit required shop drawings in accordance with the shop drawing distribution list shown in the note for Item 5 for review and distribution.

Right of way parcels or utility adjustments shown to be unclear on the plans but not listed on the special provisions will have no effect on construction.

Unless otherwise shown on the plans or otherwise directed, commence work after sunrise and ensure construction equipment is off the road by sunset.

Obtain permits and licenses, which are to be issued by the City, County, or Municipal Utility District.

General: Roadway Illumination and Electrical

For roadway illumination and electrical items, use materials from pre-qualified producers as shown on the Construction Division (CD) of the TxDOT's material producers list. Check the latest link on the TxDOT website for this list. The category/item is "Roadway Illumination and Electrical Supplies." No substitutions will be allowed for materials found on this list.

Perform electrical work in conformance with the National Electrical Code (NEC) and TxDOT standard sheets.

General: Traffic Signals

For traffic signal items, use materials from the Pre-Qualified Producers List (located at <http://www.dot.state.tx.us/GSD/purchasing/supps.htm>) and the materials pre-qualified for illumination and electrical items (located at <http://tp.dot.state.tx.us/pub/trdot-info/cnd/suppliersa.pdf>) as shown on the TxDOT's Material Producers List and the Roadway Illumination and Electrical Supplies List. Check the latest links on the TxDOT website for these lists. No substitutions will be allowed for materials found on these lists.

General: Site Management

Mow the grass and weeds within the project limits a maximum of 3 times a year as directed. This work is subsidiary to the various bid items.


Mark stations every 100 ft. and maintain the markings for the project duration. Remove the station markings at the completion of the project. This work is subsidiary to the various bid items.

Do not mix or store materials, or store or repair equipment, on top of concrete pavement or bridge decks unless authorized by the Engineer. Permission will be granted to store materials on surfaces if no damage or discoloration will result.

General Notes

Sheet B

NOV 7 21/16

FORT BEND COUNTY, TEXAS	
 Brown & Gay Engineers, Inc. 10777 Westheimer, Suite 400, Houston, TX 77042 Tel: 281-568-8222 • www.bce-engineers.com TSFB Registration No. F-1045 Copyright 2014	
FM 1463 AT CINCO TRACE DR	
GENERAL NOTES	
SHEET 1 OF 11	
SCALE: NTS	
4	
DESIGNED BY HT	CS LA
DRAWN BY HT	APP'D DATE 8/3/2016

FILE: AN00000001\BCE\201608\FM1463_CincoTrace_Traf_Signals.dwg
DATE PLOTTED: 8/3/2016 10:48:28 AM
PLOT TABLE: T:\PROJECTS\2016\1463\FM1463.dwg

MODEL: GENERAL NOTES 4
FILE: AN00000001\BCE\201608\FM1463_CincoTrace_Traf_Signals.dwg
DATE PLOTTED: 8/3/2016 10:48:28 AM
PLOT TABLE: T:\PROJECTS\2016\1463\FM1463.dwg

SCALE: NTS

PANEL GENERAL NOTES (6)
 FILED IN THE OFFICE OF THE COUNTY CLERK, FORT BEND COUNTY, TEXAS, AT THE CLERK'S OFFICE, FORT BEND COUNTY, TEXAS, ON 07/21/16.
 JAMES AN
 0017
 PER TITLE INVESTIGATION, ADDITIONAL
 PLAT BUREAU INVESTIGATION, FORT BEND COUNTY, TEXAS

County: Fort Bend
 Highway: FM 1463

Remove and assume ownership of the existing ground mounted signs within the limits of roadway construction unless otherwise noted or directed. This work is subsidiary to the Item, "Preparing Right of Way."

The Contractor shall coordinate with Newland Communities, Richard C. Albrecht (ralbrecht@newlandco.com), prior to commencing construction activities. Relocation of the existing entrance monument is subsidiary to the item, "Preparing Right of Way". Any damage to the entrance monument caused by the Contractor will be repaired at Contractor's expense.

Item 104: Removing Concrete

Removing concrete curb is paid as a separate bid item if the existing pavement on which it rests is not removed at the same time.

Item 105: Removing Treated and Untreated Base and Asphalt Pavement

Removing curb on cement-treated and untreated base or on cement treatment being removed at the same time is subsidiary to this bid item.

Item 110: Excavation

If manipulating the excavated material requires moving the same material more than once to accomplish the desired results, the excavation is measured and paid for only once regardless of the manipulation required.

Transition the ditch grades and channel bottom widths at structure locations. Use only approved channel excavation in the embankment.

The total excavation quantity shown on the plans includes the quantity for excavating to 2 ft. behind the back of the proposed curb.

Excavate, strip, and stockpile the top 6 in. of existing topsoil only at locations shown in the plans. The salvaged quantity is shown in the plans. Reuse the topsoil under the Item, "Topsoil" including measurement and payment.

Item 132: Embankment

If salvaged base is used for the embankment material, break it into small pieces to achieve the required density and to facilitate placing in the embankment. Obtain approval of the material before placing in the embankment.

Furnish Type C material with a maximum Liquid Limit (LL) of 65, a minimum Plasticity Index (PI) of 5, and composed of suitable earth material such as loam, clay, or other materials that form a suitable embankment.

The embankment material used on the project which has a Liquid Limit exceeding 45 will be tested for Liquid Limits at the rate of one test per 20,000 cu. yd. or per total quantity less than 20,000 cu. yd., unless otherwise directed. Only use material that passes the above tests.

General Notes Sheet E

County: Fort Bend
 Highway: FM 1463

Provide a finished grade with the top 4 in. capable of sustaining vegetation. Use fertile soil that is easily cultivated, free from objectionable material and highly resistant to erosion. This work is paid under the Item, "Topsoil."

Item 134: Backfilling Pavement Edges

Quantity by station includes both sides of the roadway.

The Contractor has the option of selecting the type of backfill material consisting of Reclaimable Asphalt Pavement (RAP), Flex Base, or Crushed Concrete provided that it meets the requirements listed below.

For Permeable Friction Courses (PFC), the backfill material chosen must meet the requirements of TxDOT Test Method Tex-246-F.

If using salvaged asphalt concrete pavement, size it so that all the material, passes the 2-in. sieve. Use RAP that does not contain deleterious material such as clay or organic material.

Flex Base must meet the requirements of Item 247, Type A, Grade 1-2. TxDOT Test Method Tex-117-E will not be required.

Crushed concrete must meet the requirements of Item 247, Grade 1-2. TxDOT Test Methods Tex-116-E and Tex-117-E will not be required.

Place emulsified asphalt (SS-1, CSS-1, or CSS-1H) at an application rate of 0.25 gal/sq. yard.

Perform bulldozer work to grade or make repairs to slopes to control erosion if such work is not within the scope of other contract requirements.

- Item 161: Compost
- Item 162: Sodding for Erosion Control
- Item 164: Seeding for Erosion Control
- Item 166: Fertilizer
- Item 168: Vegetative Watering

Refer to the "Fertilizer, Seed, Sod, Straw, Compost, and Water" plan sheet for material specifications, application rates, and for watering requirements.

Item 204: Sprinkling

Perform subsidiary sprinkling as required under various other items in accordance with the Item, "Sprinkling."

Sprinkling for dust control is subsidiary to the various bid items.

Item 210: Rolling

Use a medium pneumatic roller meeting the requirements of Item 210 as directed. This work is subsidiary to the various bid items. On every asphalt shot, use a minimum of 3 pneumatic rollers

General Notes Sheet F

NOB 7/21/16

FORT BEND COUNTY, TEXAS	
Drawn & Gery Engineers, Inc. 19777 Westchase, Suite 400, Houston, TX 77042 Tel: 281.638.8700 • www.dagengr.com TSP# Registration No. 1-1080	
FM 1463 AT CINCO TRACE DR	
GENERAL NOTES	
SHEET 3 OF 11	
SCALE: NTS	
DRAWN BY BT	DATE 8/3/2015

GENERAL NOTES

MODEL GENERAL NOTES 4C
 FILE: A:\Users\m\Documents\Projects\1463\FM 1463\Drawings\2015\ASB\GENERAL NOTES\GEN-4C.dwg
 0/2/7
 11/06/2016
 PLOT: D:\BIBB\PROJECTS\FM 1463\Drawings\2015\ASB\GENERAL NOTES\GEN-4C.dwg
 PEN TABLE: T:\PSE\PLT\PLT-A1000.DWT

County: Fort Bend
 Highway: FM 1463

or as directed. Use approved rolling patterns. Successive asphalt shots will not be allowed until acceptable rolling has been accomplished on the preceding asphalt shot.

Item 260: Lime Treatment (Road-Mixed)

For slurry placing, before discharging through the distributors, sufficiently agitate or mix the lime and water to place the lime in suspension and to obtain a uniform mixture.

The Engineer will observe the lime treatment that the Contractor elects to open to construction traffic immediately after compaction. If the construction traffic damages the subgrade, route the traffic off the damaged section in accordance with the standard specification. If the construction traffic does not damage the subgrade, cure the subgrade until other courses of material cover it. Apply these courses within 14 days with a maximum curing period of 7 days.

Place the hydrated and the commercial lime as a water suspension or slurry according to the slurry placing method shown in Section 260.4.3.2, "Slurry Placement"

Use the type of lime at particular locations as directed.

Place the quicklime dry or as a slurry.

For the dry quicklime, a spreader box is not required if the lime material is evenly distributed.

In limited areas, the Contractor may construct the lime slurry subgrade under a sequence of work in which the application, mixing, and compaction are completed in the same working day, if approved by the Engineer.

Provide documentation from certified public scales showing gross, tare, and net weights. Provide producer's delivery tickets also showing gross, tare, and net weights. Completely empty the lime trailers at the project site. The Engineer may direct the Contractor to reweigh any shipment of lime on certified scales. The cost of this operation is subsidiary to the item, "Lime Treatment (Road-Mixed)."

The percentage of lime shown on the plans is estimated on the basis of engineering tests. If soil tests made during construction indicate properties different than those originally anticipated, the Engineer may vary the percentage of the lime to provide soil characteristics similar to those of the preliminary tests.

Mix the lime with the new base material in an approved pug mill type stationary mixer.

Item 292: Asphalt Treatment (Plant-Mixed)

If using the iron ore topsoil as the primary aggregate, meaning 80 percent or more by weight of the total mixture, the requirements for the water susceptibility test are waived.

General Notes

Sheet G

County: Fort Bend
 Highway: FM 1463

Mixtures containing the iron ore topsoil are exempted from test methods TEX-217-F (Part I, separation of deleterious material and Part II, decantation test for coarse aggregate) and TEX-203-F (Sand Equivalent Test).

Assume responsibility for proportioning the materials entering the asphalt mixture, regardless of the type of plant used.

Furnish the mix designs for approval.

Compact the courses to a minimum density of 95 percent of the maximum density as determined using test method TEX-126-E.

Meet the following grading requirements:

Sieve Size	Percent Passing Grade 4 (Bondbreaker)
1-3/4 in.	-
1 in.	-
1/2 in.	100
No. 4	30 - 70
No. 40	15 - 45

Physical requirements are as follows:

- Maximum Plasticity Index (PI) = 8
- Maximum Liquid Limit (LL) = 35
- Maximum Wet Ball Mill = 50 (crushed stone)
- Maximum LA Abrasion = 50 (iron ore)

If blending the materials, perform the Wet Ball Mill test for the composite aggregate.

Form bituminous mix incorporating 3.5 to 7 percent asphaltic binder by dry weight.

For nominal aggregate size less than 0.5 in., design the mix in accordance with test method TEX-204-F. The minimum stability in accordance with TEX-208-F is 30 percent with a laboratory molded density of 96 percent plus or minus 1.5 percent.

If the layer thickness after placing is 1.25 in. or less, the bondbreaker is exempt from the in-place density control described in Section 292.4.5, "Compaction."

Item 340: Dense-Graded Hot Mix Asphalt (Small Quantity)

Dilution of tack coat is not allowed.

General Notes

Sheet H

NDA 7/2/16

FORT BEND COUNTY, TEXAS	
Brown & Gray Engineers, Inc. 10777 West Summer, Suite 400, Houston, TX 77042 Tel: 281-468-2700 • www.browngrey.com TSP# Registration No. F-1046	
FM 1463 AT CINCO TRACE DR	
GENERAL NOTES	
SHEET 4 OF 11	
SCALE: NTS	
4C	
DESIGNED BY	DATE
HT	0/3/2015
CK	
LW	
DRWN BY	
BT	
APPD	

MODEL GENERAL NOTES 4C
 FILE: A:\Users\m\Documents\Projects\1463\FM 1463\Drawings\2015\ASB\GENERAL NOTES\GEN-4C.dwg
 0/2/7
 11/06/2016
 PLOT: D:\BIBB\PROJECTS\FM 1463\Drawings\2015\ASB\GENERAL NOTES\GEN-4C.dwg
 PEN TABLE: T:\PSE\PLT\PLT-A1000.DWT

PER TABLE: TYPICAL NOTES TO GENERAL NOTES
PART 01000: GENERAL NOTES TO PART 01000

DATE: 08/17/16

BY: [Signature]

GENERAL NOTES: 40
FILE: A:\Projects\2016\08\17\16\FM 1463\Drawings\GENERAL NOTES.dwg

County: Fort Bend
Highway: FM 1463

Item 340: Dense-Graded Hot Mix Asphalt (Small Quantity)
Item 341: Dense-Graded Hot Mix Asphalt

Taper the asphalt concrete pavement at the beginning and ending points.

Where the ACP edge taper extends over onto the unsurfaced shoulders, blade off the loose existing shoulder material to provide a solid base for the outside taper edge. After placing the ACP overlay, blade this material back against the edge taper. This work is subsidiary to the various bid items.

The stockpile will be the point of sampling of coarse aggregate for test method TEX-217-F (Part II, decantation).

Place the asphalt concrete pavement in courses as shown on the typical sections.

Do not use petroleum-based solvents in the beds of hot mix asphalt delivery vehicles.

Dilution of tack coat is not allowed.

Do not use Surface Aggregate Classification (SAC) C for this project.

For determining the Asphalt Content, only ignition ovens will be allowed.

Item 354: Planing and Texturing Pavement

Item 360: Concrete Pavement

Where the pavement curb is left off for a later tie, provide the dowels or the tie bars as indicated on the paving detail sheets. The dowel bars and tie bars are subsidiary to the various bid items.

Repair portions of the concrete pavement surfaces that are damaged while in a plastic state before that area receives permanent pavement markings and opens to traffic. Perform repairs that are structurally equivalent to and cosmetically uniform with the adjacent undamaged areas.

Do not repair by grouting onto the surface.

On pavement widening, hand finishing in place of the longitudinal float will be permitted.

Where existing pavement is widened with new pavement, place the new pavement a minimum of 2 ft. wide.

Equip the batching plants to proportion by weight, aggregates and bulk cement, using approved proportioning devices and approved automatic scales.

For mono curb, the curb height transitions will be paid at the contract unit price of the larger curb height in the transition. The 2.5-in. laydown curbs for driveways will be paid at the unit price bid for the Item, "Cono Curb (Mono) (Ty II)."

General Notes

Sheet I

County: Fort Bend
Highway: FM 1463

High early strength cement may be used for frontage road and city street intersection construction.

Do not use limestone dust of fracture as fine aggregate.

If the concrete design requires greater than 5.5 sacks of cementitious material per cubic yard, obtain written approval. If placing concrete pavement mixes from April 1 to October 31, inclusive, use a minimum of 25 percent by weight of Class F Fly Ash.

Perform saw cutting as shown on the plans in accordance with Section 360.4.10, "Sawing Joints." This saw cutting is subsidiary to this bid item.

Use coarse aggregate to produce concrete with a maximum Coefficient of Thermal Expansion (CTE) of 5.5×10^{-6} in/in³F. Before construction, submit test specimens to the Engineer for aggregate acceptance. Provide samples or test specimens as directed. The Contractor will perform the testing. Test results are final. Testing is required for naturally occurring aggregates.

Items 360, 420, and 421: All Concrete Items

For the concrete cylinder split samples, transport the test cylinders to the destination determined by the Engineer. Transporting the test cylinders is subsidiary to the various bid items.

The approach pavement is paid for under the Item, "Concrete Pavement."

Item 400: Excavation and Backfill for Structures

Plugging existing pipe culverts is subsidiary to the various bid items.

If Recycled Cement Treatment (Type D) is included in the plans, the following additional requirements apply:

1. Use only approved sand, crushed concrete, or salvaged base free from deleterious matter, as aggregate for cement-stabilized backfill
2. Provide crushed concrete or salvaged base backfill material in accordance with the Item, "Cement Treatment (Plant-Mixed)(Type D)" (base or crushed concrete), except the recycled Type D material must not contain Reclaimed Asphalt Pavement (RAP).
3. For backfill material below the spring line of pipes, use cement-stabilized sand rather than Recycled Type D backfill material.
4. For the cement-stabilized sand backfill, use a minimum of 7 percent of hydraulic cement based on the dry weight of backfill material. The cement content for the crushed concrete and salvaged base is specified in the Item, "Cement Treatment (Plant-Mixed) (Type D)."
5. Place and compact the stabilized backfill material using a gradation that provides a dense mass without segregating and is impervious to passing of water.

General Notes

Sheet J

NOV 7 21/16

FORT BEND COUNTY, TEXAS

Drawn & Geol Engineers, Inc.
15777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-554-8700 • www.dge.com
TSP# Registration No. F-1049

FM 1463 AT CINCO TRACE DR

GENERAL NOTES

SHEET 5 OF 11

SCALE: NTS

40

DESIGNED BY	CK	DRAWN BY	APPN	DATE
HT	LC	JT		8/3/2016

GENERAL NOTES

MODEL: GENERAL NOTES 4E
 FILE: 24 Submittals and Documents\PMAS\Contract\Drawings\Signal\Drawings\GENERAL NOTES.dwg
 PEN TABLE: P:\P\SETUP\TABLES\YR0011.TB
 PLOT: D:\TEMP\1\1\SETUP\TABLES\YR0011.TB
 11/26/2016 AM
 8:37
 Print
 11/26/2016 AM
 8:37

County: Fort Bend
 Highway: FM 1463

Item 421: Hydraulic Cement Concrete

Entrained air is required in all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.), but is not required for other structural concrete. Adjust the dosage of air entraining agent for low air content as directed or allowed by the Engineer. If entrained air is provided where not required, do not exceed the manufacturer's recommended dosage.

Item 462: Concrete Box Culverts and Drains

Item 464: Reinforced Concrete Pipe

Concrete collars are subsidiary to the various bid items except for those specified on the plans for stage construction, which are paid for under the Item, "Concrete Substructures" as "Cl C Collar (Collar)."

Rubber gaskets are required for concrete pipe joints except for connections of safety end treatments, driveway culverts, and joints between the existing pipes and extensions.

Open, install, and backfill each section, or a portion of a section, in the same day at locations requiring pipe culverts under existing roadways.

Place the pipe drains across existing roadways half at a time to allow passage of traffic. No trenches may remain open overnight.

Known locations of existing stub-outs are shown on the plans, but these stub-outs may be in a different position or condition. Delays, inconveniences, or additional work required will not be a basis for additional compensation.

Provide leave-outs or holes in the proposed storm drain structures and pipes for drainage during interim construction. This work is subsidiary to the various bid items.

The flowline elevations of side road structures are based on the proposed ditches. Field-verify these elevations and adjust them as necessary to meet the field conditions. Before placing these structures, prepare and submit for approval, the data (revised elevation, alignment, length, etc.) for the adjusted structures.

If groundwater is encountered while installing the storm drain system, install a suitable dewatering system to facilitate construction of the storm drains. The costs for materials and labor required to install and maintain this system are subsidiary to the Item, "Reinforced Concrete Pipe."

Item 502: Barricades, Signs, and Traffic Handling

Use a traffic control plan for handling traffic through the various phases of construction. Follow the phasing sequence unless otherwise agreed upon by the Engineer and the Project Manager. Ensure this plan conforms to the latest "Texas Manual on Uniform Traffic Control Devices" and the latest Barricade and Construction (BC) Standard Sheets. The latest versions of Work Zone

General Notes

Sheet K

County: Fort Bend
 Highway: FM 1463

Standard Sheets WZ (BTS-1) and WZ (BTS-2) are the traffic control plan for the signal installations.

Submit changes to the traffic control plan to the Engineer. Provide a layout showing the construction phasing, signs, striping, and signalizations for changes to the original traffic control plan.

Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance with the latest "Texas Manual on Uniform Traffic Control Devices" for typical construction layouts.

Cover work zone signs when work related to the signs is not in progress, or when any hazard related to the signs no longer exists.

Keep the delineation devices, signs, and pavement markings clean. This work is subsidiary to the Item, "Barricades, Signs, and Traffic Handling."

If a section is not complete before the end of the workday, pull back the base material to the existing pavement edge on a 6H: 1V slope.

Edge drop-offs greater than 2" during the hours of darkness are not permitted; the Contractor shall provide 4H: 1V safety slope along edge drop-off condition.

Before detouring traffic onto the mainline shoulders, remove dirt, debris, vegetation, and other deleterious material from the surface of the shoulders. Appropriately sign the detour in an approved manner. This work is subsidiary to the various bid items.

Cover or remove the permanent signs and construction signs that are incorrect or that do not apply to the current situation for a particular phase.

Replace the overhead signs, informational signs, and exit signs to be removed, with temporary signs providing the correct information to the traveling public. Size the replacement signs and include them in the traffic control plan.

Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheets.

Use traffic cones for daytime work only. Replace the cones with plastic drums during nighttime hours.

Place positive barriers to protect drop-off conditions greater than 2 ft. within the clear zone that remain overnight.


Use shadow vehicles with Truck Mounted Attenuators (TMA) for lane and shoulder closures.

Do not reduce the existing number of lanes open to traffic except as shown on the following time schedule:

General Notes

Sheet L

NOV 17 7/21/16

FORT BEND COUNTY, TEXAS	
 Brown & Gay Engineers, Inc. 12777 Westhampton, Suite 400, Houston, TX 77042 Tel: 281-328-8200 • www.browngay.com TSP E Registration No. F-1040	
FM 1463 AT CINCO TRACE DR GENERAL NOTES	
SHEET 6 OF 11	
SCALE: NTS	
4E	
DESIGNED BY HT	DATE 8/3/2015

GENERAL NOTES

County: Fort Bend
Highway: FM 1463

County: Fort Bend
Highway: FM 1463

One Lane Closure

Day	Daytime Closure Hours	Nighttime Closure Hours	Restricted Hours Subject to Lane Assessment Fee
Monday	9:00 AM - 4:00 PM	12:00 AM - 6:00 AM 7:00 PM - 12:00 AM	6:00 AM - 9:00 AM 4:00 PM - 7:00 PM
Tuesday	9:00 AM - 4:00 PM	12:00 AM - 6:00 AM 7:00 PM - 12:00 AM	6:00 AM - 9:00 AM 4:00 PM - 7:00 PM
Wednesday	9:00 AM - 4:00 PM	12:00 AM - 6:00 AM 7:00 PM - 12:00 AM	6:00 AM - 9:00 AM 4:00 PM - 7:00 PM
Thursday	9:00 AM - 4:00 PM	12:00 AM - 6:00 AM 7:00 PM - 12:00 AM	6:00 AM - 9:00 AM 4:00 PM - 7:00 PM
Friday	9:00 AM - 4:00 PM	12:00 AM - 6:00 AM 7:00 PM - 12:00 AM	6:00 AM - 9:00 AM 4:00 PM - 7:00 PM
Saturday	ALL DAY	ALL NIGHT	N/A
Sunday	ALL DAY	ALL NIGHT	N/A

The above times are approved for the traffic control conditions listed. The Engineer may approve other closure times if traffic counts warrant. The Engineer may reduce the above times for special events.

Law enforcement assistance will be required for this project and is expected to be required for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement as directed or agreed by the Engineer. Before payment will be made, complete the "Daily Report on Law Enforcement Force Account Work" (Form 318), provided by the Department and submit daily invoices that agree with this form for any day during the month in which approved services were provided.

Provide full-time, off-duty, uniformed, certified peace officers, as part of traffic control operations. The peace officers must be able to show proof of certification by the Texas Commission on Law Enforcement Officers Standards. The cost of the officers is paid for on a force account basis.

A minimum of 7 days in advance of any total closure, notify the Houston District Public Information Office of which roadways, ramps, intersections, or lanes will be closed, the dates they will remain closed, and when they will be opened again to traffic.

A minimum of 7 days in advance of any total closure, place a portable changeable message (PCM) sign at the location of each total closure which informs the traveling public of the details

of the closure. Alternately, if the Traffic Control Plan provides a positive barrier at the location, a non-trailer mounted static message board/sign behind the positive barrier may be used in place of a PCM.

Use Uneven Lane Signs (CW 8-11) during resurficing operations for elevation differences between adjacent lanes of greater than 1 in.

Before closing any City of Houston sidewalk, one or more city street lanes, or entire city streets during construction, obtain a permit to do so from the City. Obtain the required permit in person at the City of Houston Permit Office, or apply online at <http://www.sims.houstontx.gov>.

Determine the asphalt content by the ignition method and meet the requirements of Section 504.2.2.4.1, "Asphalt Content by Ignition Method" except provide a NEMA 6-50R (204/240 volt, 50 A) outlet within 2.25 ft. of the ignition oven location.

If an asphalt mix plant is located at the project site, provide a Type D structure with the dimensions of a Type C structure, at the project site to perform the asphalt mix quality control tests.

If a commercial source is used for the asphalt mix, provide a Type D structure with the dimensions of a Type C structure, at the commercial source site to perform the asphalt mix quality control tests.

Equip each lab with a first aid kit and at least a 20 lb. ABC type fire extinguisher. Also equip the labs with an eye wash station. Provide equipment that meets the minimum OSHA requirements.

Item 506: Temporary Erosion, Sedimentation and Environmental Controls

The use of hay bales is not permitted as Storm Water Pollution Prevention Plan (SWP3) measures.

Item 529: Concrete Curb, Gutter, and Combined Curb and Gutter

Item 536: Intersections, Driveways, and Turnouts

Item 531: Sidewalks

An air-entraining admixture is not required.

For concrete curbs, use Grade 7 aggregate conforming to Section 421.2.6 of the Item, "Hydraulic Cement Concrete."

For driveways and turnouts, coarse aggregate Grade No. 3 through No. 8 conforming to the gradation requirements specified in the Item, "Hydraulic Cement Concrete" will be permitted.

For reinforcing steel in sidewalks and pedestrian ramps, use No. 4 bars at a maximum 18 in. spacing center-to-center in both directions.

NDA 7/21/16

FORT BEND COUNTY, TEXAS



Brown & Gay Engineers, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-965-0700 • www.browngay.com
TDP E Registration No. F-1046

FM 1463 AT CINCO TRACE DR

GENERAL NOTES

SHEET 7 OF 11

SCALE: NTS

4F

DESIGNED BY	DR	DRAWN BY	APP'D	DATE
NT	LB	NT		8/3/2015

FOR FILE: I:\PROJECTS\151516\151601\FM 1463 AT CINCO TRACE DR\GENERAL NOTES.dwg
 FILE: I:\PROJECTS\151516\151601\FM 1463 AT CINCO TRACE DR\GENERAL NOTES.dwg
 DATE: 8/3/2015 10:48:33 AM
 USER: NT

General Notes

Sheet M

General Notes

Sheet N

PER TITLE REQUIREMENTS, THE PLANS SHALL BE PRINTED ON 24" X 36" ARCH PAPER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

County: Fort Bend
Highway: FM 1463

Replace existing signs that become damaged during relocation at no expense to the Owner.

Item 662: Work Zone Pavement Markings

At the end of each workday, mark roadways that remain open to traffic during construction operations with standard pavement markings, in accordance with the latest "Texas Manual on Uniform Traffic Control Devices."

Using raised markers for removable work zone pavement markings on final concrete surfaces is optional.

Do not use raised pavement markers as optional work zone pavement markings on final asphalt surfaces.

For transition lane lines and detour lane lines, use raised pavement markers as shown for solid lines on the latest Barricade and Construction standard sheet for "Work Zone Pavement Marking Details."

- Item 662: Work Zone Pavement Markings
- Item 666: Reflectorized Pavement Markings
- Item 668: Prefabricated Pavement Markings
- Item 6838: Multipolymer Pavement Markings (MPM)

Use Type III glass beads for thermoplastic and multipolymer pavement markings.

Use a 0.100 in. (100 mil) thickness for thermoplastic pavement markings, measured to the top of the thermoplastic, not including the exposed glass beads.

Use a 0.022 in. (22 mil) thickness for multipolymer pavement markings, measured to the top of the multipolymer, not including the exposed glass beads.

For roadways with asphalt surfaces to be striped with work zone or permanent thermoplastic markings, the Contractor has the option to apply paint and beads markings for a maximum 30-day period until placing the thermoplastic markings, or until starting the succeeding phase of work on the striped area. Maintain the paint and beads markings, at no expense to the Owner, until placing the thermoplastic markings or starting the succeeding phase of work on the striped area. The work zone markings, whether paint and beads or thermoplastic, are paid under the Item, "Work Zone Pavement Markings" and the markings are paid for only once for the given phase of construction.

If using paint and bead markings as described above, purchase the traffic paint from the open market.

If the Type II markings become dirty and require cleaning by washing, brushing, compressed air, or other approved methods before applying the Type I thermoplastic markings, this additional cleaning is subsidiary to the Item, "Reflectorized Pavement Markings."

General Notes Sheet Q

County: Fort Bend
Highway: FM 1463

Establish the alignment and layout for work zone striping and permanent striping.

Stripe all roadways before opening them to traffic.

Place pavement markings under these items in accordance with details shown on the plans, the latest "Texas Manual on Uniform Traffic Control Devices," or as directed.

When design details are not shown on the plans, provide pavement markings for arrows, words, and symbols conforming to the latest "Standard Highway Sign Designs for Texas" manual.

Place the pedestrian crosswalk pavement markings only after the pedestrian signals and push buttons are installed and operating.

Item 672: Raised Pavement Markers

If other operations are complete on the project and if the curing time period is not yet elapsed, the contract time will be suspended until the curing is done.

Before placing the raised pavement markers on concrete pavement, blast clean the surface using an abrasive-blasting medium. This work is subsidiary to the Item, "Raised Pavement Markers."

Provide epoxy adhesive that is machine-mixed or nozzle-mixed and dispensed. Equip the machine or nozzle with a mechanism to ensure positive mix measurement control.

Item 677: Eliminating Existing Pavement Markings and Markers

Remove existing pavement markings on concrete or asphalt surfaces by flail milling or as directed.

Item 678: Pavement Surface Preparation for Markings

Do not blast clean asphalt concrete pavement. Clean asphalt concrete pavement as required under the applicable specifications or as directed.

On new concrete pavement or on existing concrete pavement when placing a new stripe on a new location, remove the curing compounds and contamination from the pavement surface by flail milling or as directed. In addition, air-blast the surface with compressed air just before placing the new stripe.

On existing concrete pavement when placing a new stripe on an existing location, after removing the existing stripe under the Item, "Eliminating Existing Pavement Markings and Markers," air-blast the surface with compressed air just before placing the new stripe.

Perform air blasting with a compressor that is capable of generating air at a minimum of 100 psi using 5/16 in. or larger hose for the air blast (equipment should have sufficient capacity to remove contaminants but not damage the pavement surface). Do not clean concrete pavement by grinding.

General Notes Sheet R

NOA 7/21/16

FORT BEND COUNTY, TEXAS	
Brown & Gay Engineers, Inc. 10777 Westheimer, Suite 400, Houston, TX 77042 Tel: 281-455-8700 • www.browngay.com TDP# Registration No. F-1048	
FM 1463 AT CINCO TRACE DR	
GENERAL NOTES	
SHEET 9 OF 11	
SCALE: NTS	
4H	
DESIGNED BY	DATE
BY	8/3/2015

1. CHECK, SIGNATURE, TITLE, DATE

SUMMARY OF TRAFFIC SIGNAL MATERIALS

ITEM NO.	DESC. CODE	DESCRIPTION	UNIT	QUANTITY
618	6045	CONDT (PHS) (SCHD 80) (2")	LF	455
660	6002	INSTAL OF HRT TRAF SIG (UPGRADE)	EA	1
		* TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED	EA	1
		* DETECTOR CARD RACK	EA	2
		* RELOCATE OVERHEAD SIGN	EA	1
		* REMOVE RED FLASHING SIGNAL HEAD	EA	8
662	6001	VEH SIG SEC (12 IN) LED (GRN)	EA	9
662	6002	VEH SIG SEC (12 IN) LED (GRN ARW)	EA	4
662	6003	VEH SIG SEC (12 IN) LED (YEL)	EA	9
662	6004	VEH SIG SEC (12 IN) LED (YEL ARW)	EA	4
662	6005	VEH SIG SEC (12 IN) LED (RED)	EA	9
662	6006	VEH SIG SEC (12 IN) LED (RED ARW)	EA	8
662	6018	PED SIG SEC (12 IN) LED (COUNTDOWN)	EA	8
662	6023	BACK PLATE (12 IN) (3 SEC)	EA	8
662	6024	BACK PLATE (12 IN) (4 SEC)	EA	4
664	6007	TRF SIG CBL (TY A) (12 AWG) (2 CONDR)	LF	1350
664	6008	TRF SIG CBL (TY A) (12 AWG) (4 CONDR)	LF	1385
664	6012	TRF SIG CBL (TY A) (12 AWG) (7 CONDR)	LF	234
667	6001	PED POLE ASSEMBLY W/ SCREW-IN ANCHOR FOUNDATION	EA	7
669	6001	PED DETECT PUSH BUTTON (APS)	EA	8
		* CENTRAL CONTROL UNIT FOR APS	EA	1
		* CONFIGURATION DEVICE FOR APS	EA	1
6025	6001	RADAR PRESENCE DETECTION DEVICE	EA	4
		* POWER CABLE (2/C)	LF	965
6025	6002	RADAR PRESENCE DETECTOR COMM CABLE (4/C)	LF	965
6057	6001	RADAR ADVANCE DETECTION DEVICE	EA	4
		* POWER CABLE (2/C)	LF	715
		* COMMUNICATION CABLE (4/C)	LF	715
6061	6001	GPS COMMUNICATION UNIT	EA	1

(*) FOR CONTRACTOR'S INFORMATION ONLY

REV TABLE: TRAF SIG MATL SUMMARY
 FILE: H:\Data\Bentley\Projects\1463_Cinco Trace\Drawings\TRAFFIC SIGNAL\SUMMARY.dwg

The

MODEL SUMMARY OF TRAFFIC SIGNAL MATERIALS
 FILE: H:\Data\Bentley\Projects\1463_Cinco Trace\Drawings\TRAFFIC SIGNAL\SUMMARY.dwg

11/27/06 AM

0/3/7

NDIA 7/21/16

FORT BEND COUNTY, TEXAS

BCE Brown & Coy Engineers, Inc.
 15777 Westheimer, Suite 400, Houston, TX 77042
 Tel: 281-855-8100 • www.browncoy.com
 TSP#E Registration No. P-1096

FM 1463 AT CINCO TRACE DR

SUMMARY OF TRAFFIC SIGNAL MATERIALS

SHEET 2 OF 2

SCALE: NTS

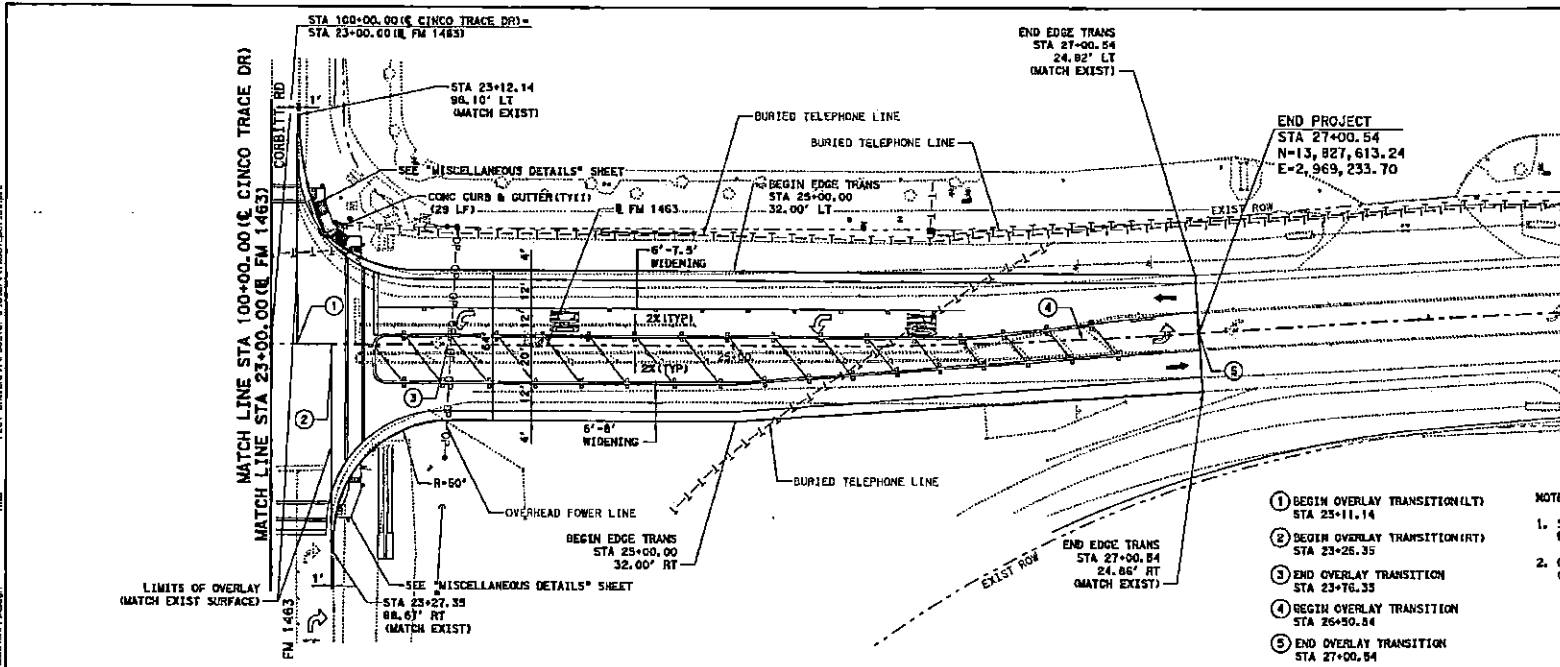
SHEET NO.
6

DESIGNED BY	CK	DRAWN BY	APPR	DATE
HW	SH	HW		8/3/2016

15:00:00 PM 8/3/2015

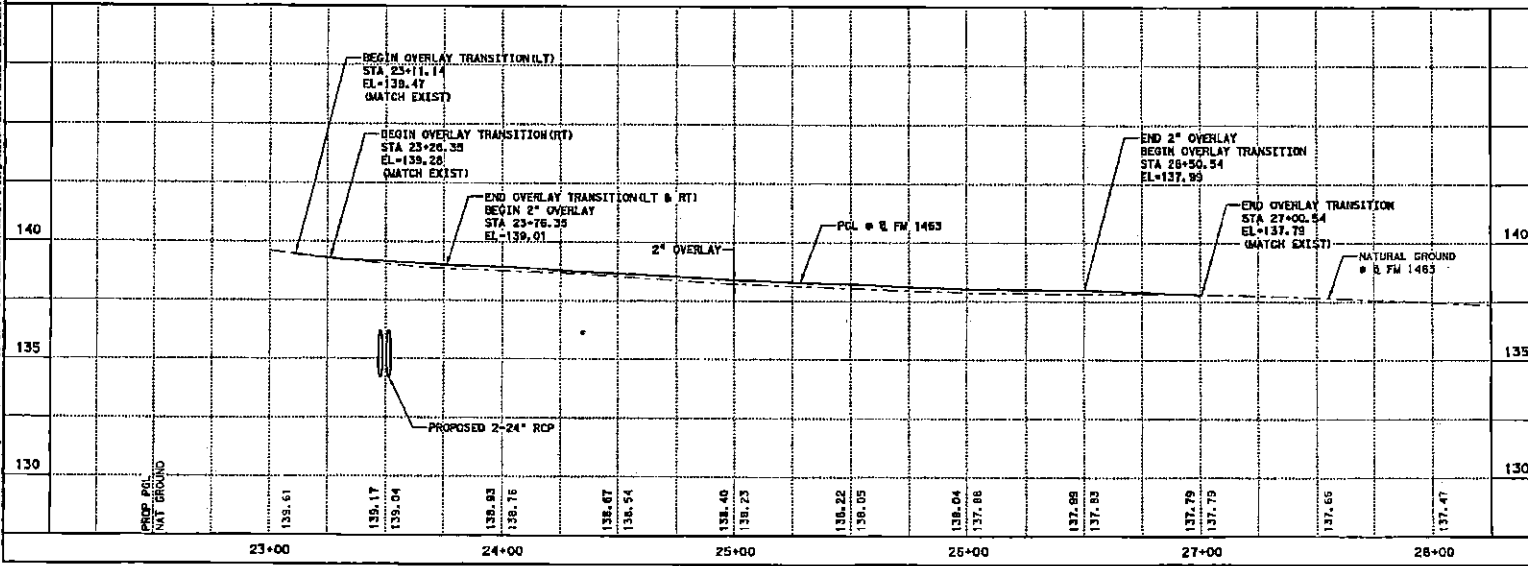
FOR TABLE: IN ACCORDANCE WITH STANDARD PRACTICE FOR THE STATE OF TEXAS, THE SHEET SHALL BE PRINTED AT THE SCALE INDICATED.

MODEL: ROADWAY PLAN & PROFILE FOR 1463
FILE: \\S:\Projects\1463\1463.dwg



- NOTES:
- BEGIN OVERLAY TRANSITION (LT) STA 23+11.14
 - BEGIN OVERLAY TRANSITION (RT) STA 23+26.35
 - END OVERLAY TRANSITION STA 23+76.35
 - BEGIN OVERLAY TRANSITION STA 25+50.54
 - END OVERLAY TRANSITION STA 27+00.54

- STATION AND OFFSET BASED ON FM 1463 UNLESS NOTED OTHERWISE.
- OVERLAY TRANSITION DETAILS ARE SHOWN ON "MISCELLANEOUS DETAILS" SHEET.



NOV 7 2015

Gregory A. Ofield
8/3/2015

FORT BEND COUNTY, TEXAS

BGE Brown & Gay Engineers, Inc.
19771 Westchester, Suite 100, Houston, TX 77042
Tel: 281-436-6700 • www.browngay.com
TSP#E Reg. No. P-1048

FM 1463 AT CINCO TRACE DR
ROADWAY PLAN & PROFILE
FM 1463
SHEET 2 OF 2

0 25 50
10

DESIGNED BY	CK	DRAWN BY	APR	DATE
HT	LG	RY		8/3/2015

FM 1463

BEGINNING CHAIN FM1463 DESCRIPTION

POINT FM146301 N 13,027,968.46 E 2,967,914.76 STA 10+00.00
 COURSE FROM FM146301 TO FM146302 N 88° 01' 40.00" E DIST 1,300.00
 POINT FM146302 N 13,828,013.20 E 2,969,213.99 STA 23+00.00
 COURSE FROM FM146302 TO PC FM1463-1 S 1° 56' 07.00" E DIST 223.36

CURVE DATA

CURVE FM1463-1
 P.T. STATION 26+01.71 N 13,827,711.68 E 2,969,224.18
 DELTA 3° 35' 23.96" (LT)
 DEGREE 2° 17' 30.59"
 TANGENT 78.35
 LENGTH 156.64
 RADIUS 2,500.00
 EXTERNAL 1.23
 LONG CHORD 156.62
 MID. ORD. 1.23
 P.C. STATION 25+23.38 N 13,827,789.96 E 2,969,221.53
 P.T. STATION 26+02.00 N 13,827,633.68 E 2,969,231.72
 C.C. N 13,827,874.39 E 2,971,720.11
 BACK S 1° 56' 07.00" E
 AHEAD S 5° 31' 30.95" E
 CHORD BEAR S 3° 43' 48.99" E

COURSE FROM PT FM1463-1 TO PC FM1463-2 S 5° 31' 30.95" E DIST 115.93

CURVE DATA

CURVE FM1463-2
 P.T. STATION 29+74.28 N 13,827,440.30 E 2,969,250.43
 DELTA 3° 35' 23.96" (RT)
 DEGREE 2° 17' 30.59"
 TANGENT 78.35
 LENGTH 156.64
 RADIUS 2,500.00
 EXTERNAL 1.23
 LONG CHORD 156.62
 MID. ORD. 1.23
 P.C. STATION 27+95.94 N 13,827,516.28 E 2,969,242.89
 P.T. STATION 29+52.58 N 13,827,362.00 E 2,969,253.07
 C.C. N 13,827,277.57 E 2,969,754.50
 BACK S 5° 31' 30.95" E
 AHEAD S 1° 56' 07.00" E
 CHORD BEAR S 3° 43' 48.99" E

COURSE FROM PT FM1463-2 TO FM146303 S 1° 56' 07.00" E DIST 1,628.03

POINT FM146303 N 13,828,734.10 E 2,969,308.08 STA 45+81.41

ENDING CHAIN FM1463 DESCRIPTION

CINCO TRACE DR

BEGINNING CHAIN CINCO DESCRIPTION

CURVE CINCO-3
 P.T. STATION 98+56.87 N 13,828,360.14 E 2,969,201.51
 DELTA 21° 08' 24.00" (RT)
 DEGREE 6° 01' 52.00"
 TANGENT 177.27
 LENGTH 350.91
 RADIUS 850.00
 EXTERNAL 16.40
 LONG CHORD 348.53
 MID. ORD. 18.12
 P.C. STATION 84+75.60 N 13,828,523.07 E 2,969,131.85
 P.T. STATION 98+30.11 N 13,828,182.38 E 2,969,207.90
 C.C. N 13,828,149.71 E 2,968,258.52
 BACK S 23° 12' 26.00" E
 AHEAD S 2° 04' 02.00" E
 CHORD BEAR S 12° 38' 14.00" E

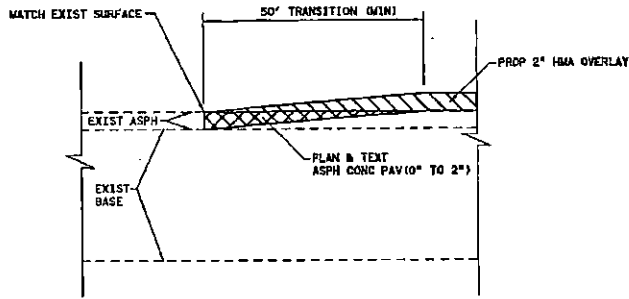
COURSE FROM PT CINCO-3 TO 233402 S 2° 04' 02.00" E DIST 113.30

POINT 233402 N 13,828,069.75 E 2,969,211.99 STA 99+43.41

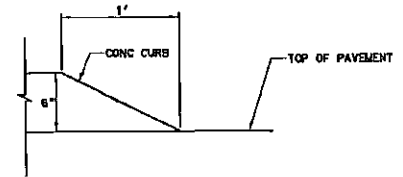
COURSE FROM 233402 TO 233403 S 2° 01' 25.95" E DIST 56.59

POINT 233403 N 13,828,013.20 E 2,969,213.99 STA 100+00.00

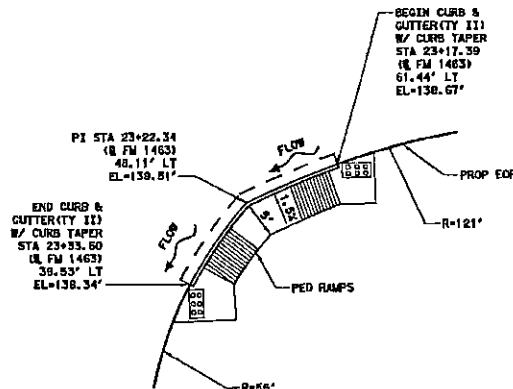
ENDING CHAIN CINCO DESCRIPTION



OVERLAY TRANSITION DETAIL



CURB TAPER DETAIL



CURB & GUTTER DETAIL

NOTE: ALSO SEE STD CCCC-12



FORT BEND COUNTY, TEXAS

BCE Brown & Gray Engineers, Inc.
 16777 Washington, Suite 400, Houston, TX 77042
 Tel: 281-358-8700 • www.browngrey.com
 TDP# Registration No. F-1048

FM 1463 AT CINCO TRACE DR

MISCELLANEOUS DETAILS

SHEET 1 OF 2

SCALE: NTS

11

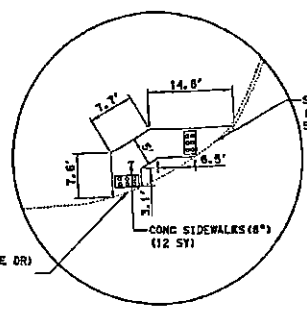
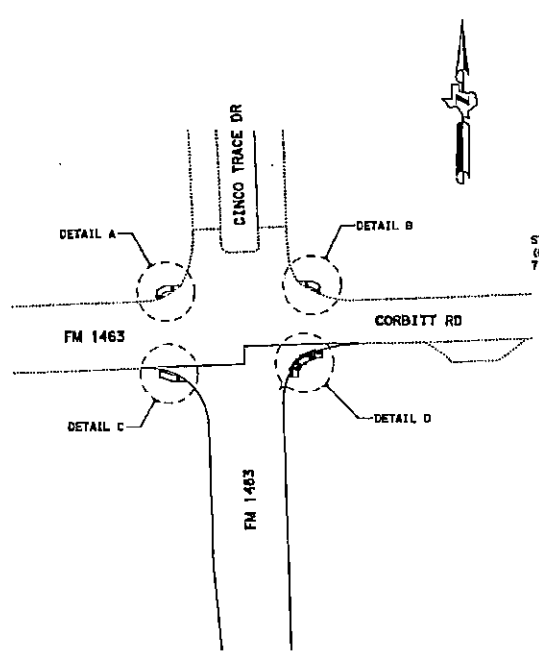
DESIGNED BY	CK	SKETCH BY	APPR	DATE
HT	LO	WT		8/3/2015

WMA 7/21/16

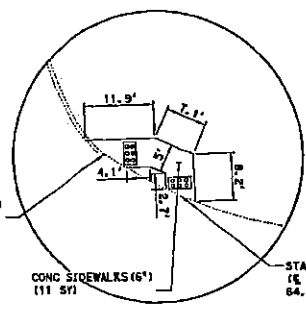
FOR TABLE: TO ACCESS THIS TABLE, VISIT: www.txdot.gov

FOR MORE DETAILS: VISIT: www.txdot.gov OR CALL: 1-800-392-0088

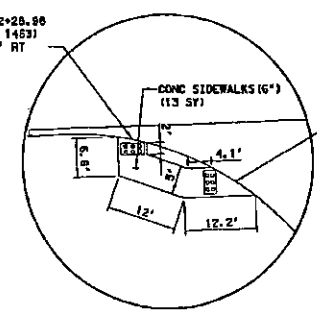
MODEL MISCCELLANEOUS DETAILS
 FILE: \\A:\Users\cay@bent.com\Public\Projects\1463\Cinco Trace\Drawings\1463_Miscellaneous\1463_Miscellaneous_Details.dwg
 1/24/16 10:52:33 PM
 PLOT DATE: 7/24/16
 PLOT BY: JG



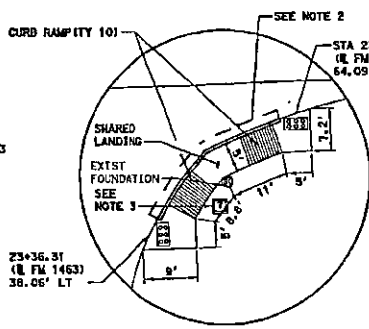
DETAIL A



DETAIL B



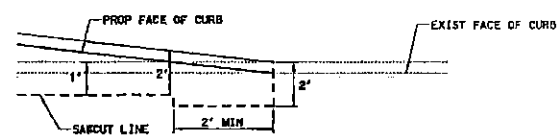
DETAIL C



DETAIL D

LEGEND
 [Hatched Box] DETECTABLE WARNING SURFACE

- NOTES**
1. DETECTABLE WARNING SURFACE SUBSIDIARY TO ITEM 531, "SIDEWALKS".
 2. CURB AND GUTTER WILL BE MEASURED AND PAID FOR SEPARATELY UNDER ITEM 529, "CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER".
 3. CONTRACTOR SHALL COORDINATE WITH UTILITY PRIOR TO BEGINNING WORK IN THIS AREA.



TYPICAL SAWCUT DETAIL AT TAPER

Gregory A. Ofield
 8/3/2015

FORT BEND COUNTY, TEXAS

FM 1463 AT CINCO TRACE DR
**MISCELLANEOUS
 DETAILS**

SHEET 2 OF 2

SCALE: NTS
 12

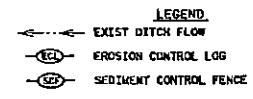
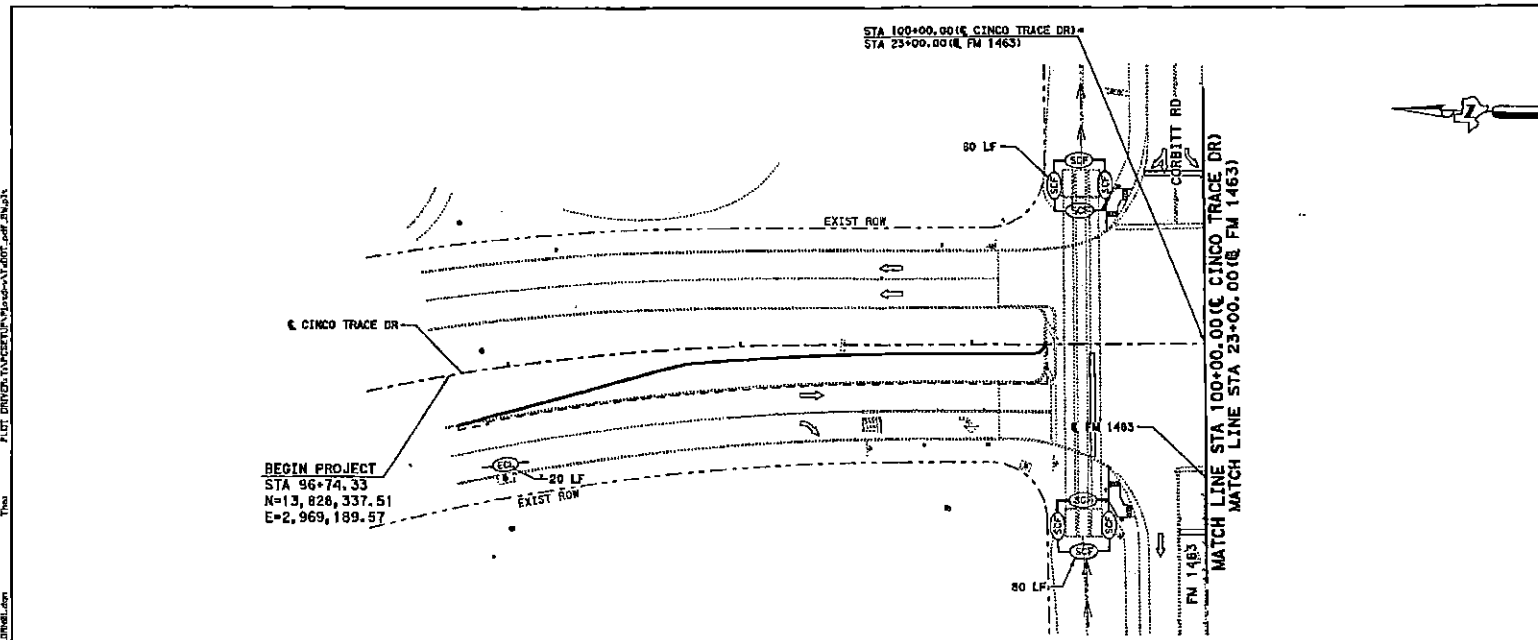
DESIGNED BY	CS	DRAWN BY	APPR	DATE
PC	LG	PC		8/3/2015

MDA 7/24/16

12/28/14 PM

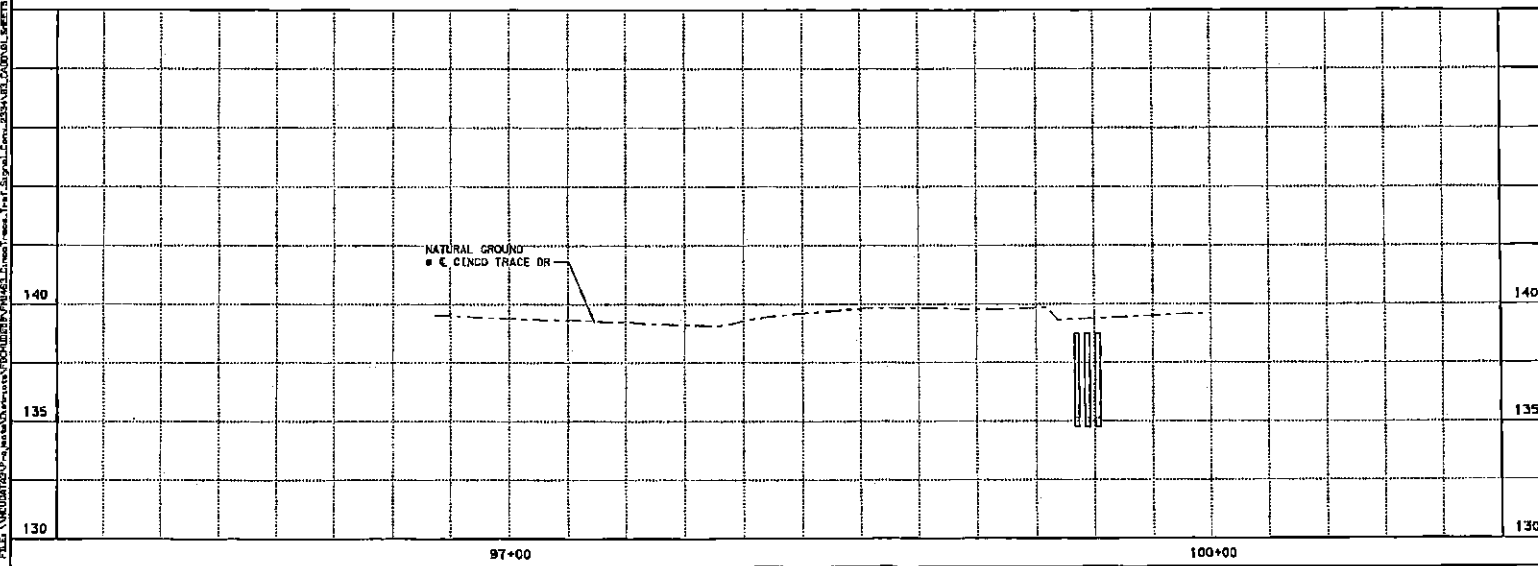
FOR TABLE: 1. UNBUILT PLAN AND PROFILE
2. LOT, EROSION CONTROL LOGS, SEDIMENT CONTROL FENCE

FOR TABLE: 1. UNBUILT PLAN AND PROFILE
2. LOT, EROSION CONTROL LOGS, SEDIMENT CONTROL FENCE



BEGIN PROJECT
 STA 96+74.33
 N=13,826,337.51
 E=2,969,189.57

- NOTES:**
1. STATION AND OFFSET BASED ON E CINCO TRACE DR AT FACE OF CURB, UNLESS NOTED OTHERWISE.
 2. FINAL LOCATION OF EROSION CONTROL LOGS AND CONSTRUCTION EXITS WILL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.



Now *Valid*

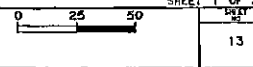
Gregory A. Ofield
8/3/2015

FORT BEND COUNTY, TEXAS

BGE Brown & Gay Engineers, Inc.
 10777 Westheimer, Suite 400, Houston, TX 77042
 Tel: 281-465-4400 • www.browngay.com
 TBP# Registration No. F-1008

FM 1463 AT CINCO TRACE DR

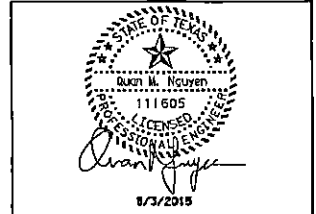
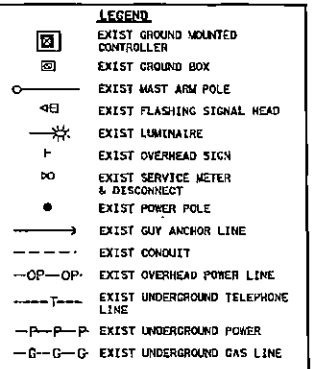
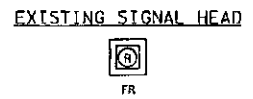
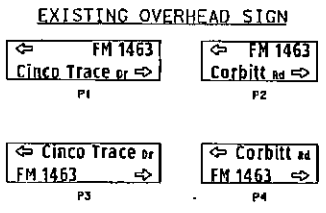
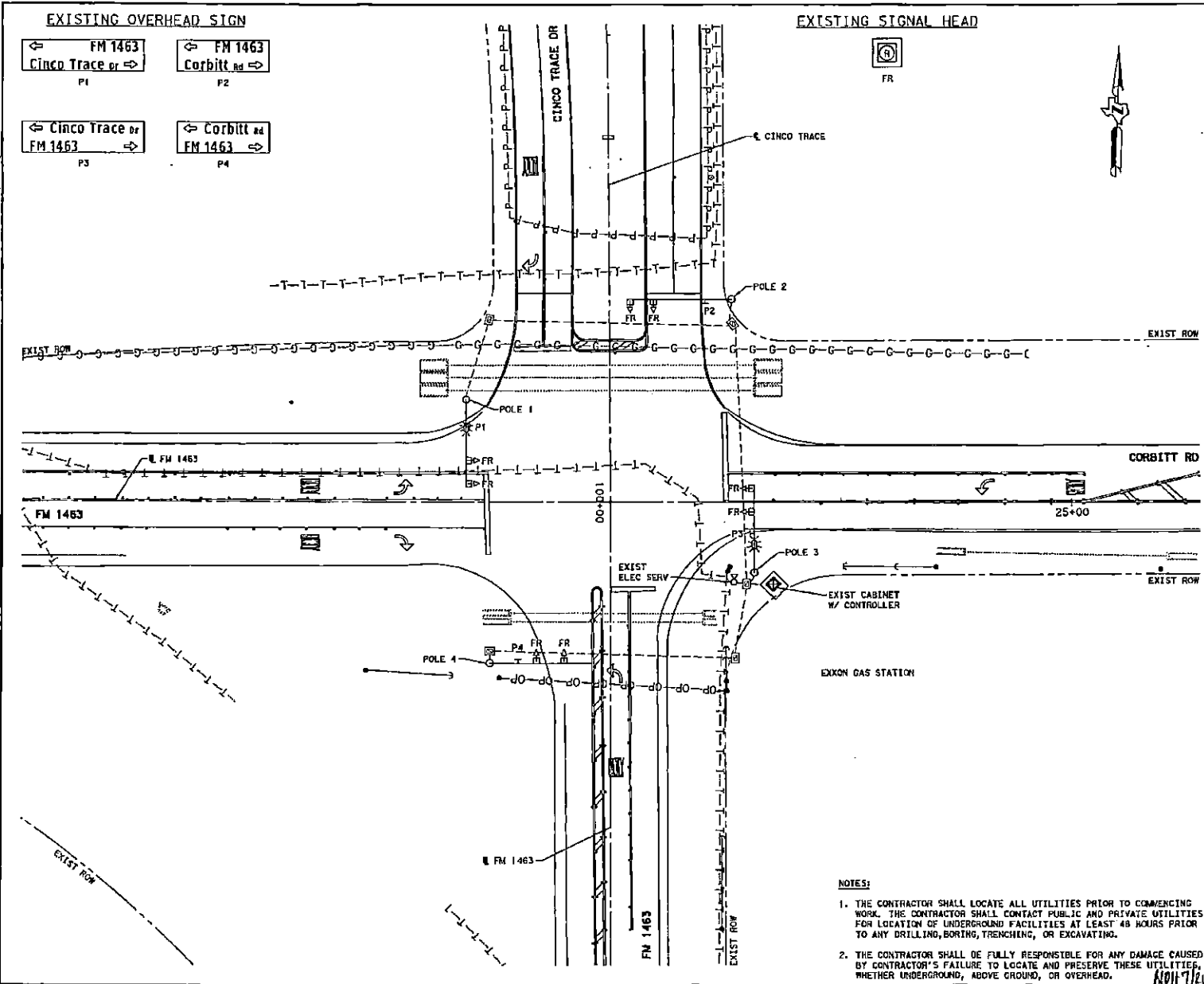
**DRAINAGE/SWP3
 PLAN & PROFILE**
 CINCO TRACE DR



UNBUILT BY	CE	DRY BY	APPV	DATE
HT	LG	SC		8/3/2015

DATE PLOTTED: 12/28/14 12:28 PM

PROJECT: Existing Conditions Layout
 FILE: \\bent\proj\1463\1463_001\1463_001.dwg
 DATE: 8/3/2015
 TIME: 10:41 AM
 USER: daniel.ph

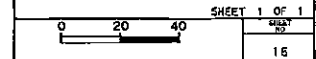


FORT BEND COUNTY, TEXAS

BGE Brown & Ory Engineers, Inc.
 10777 Westheimer, Suite 400, Houston, TX 77042
 Tel: 281-328-8700 • www.brownory.com
 TBP/E Registration No. F-1048

FM 1463 AT CINCO TRACE DR

**EXISTING
CONDITION LAYOUT**



- NOTES:**
1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT PUBLIC AND PRIVATE UTILITIES FOR LOCATION OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
 2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

DESIGNED BY	CK	DRAWN BY	APPN	DATE
ME	CK	ME		8/3/2015

2014 PM

PER TABLE: T:\PROJECTS\11463 AT CINCO TRACE\11463 AT CINCO TRACE\TRAFFIC SIGNAL\TRAFFIC SIGNAL.DWG

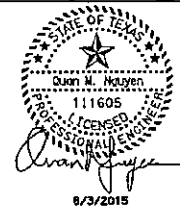
MODEL PROVIDED TRAFFIC SIGNAL DETAILS
FILES: A:\Drawings\11463 AT CINCO TRACE\11463 AT CINCO TRACE\TRAFFIC SIGNAL\TRAFFIC SIGNAL.DWG

PROPOSED ELECTRICAL SCHEDULE

DESCRIPTION	ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13
VEHICLE SIGNALS	7/C #12					1	1	1					1	1
PEDESTRIAN SIGNALS	4/C #12	1	2		4			6	2					
PUSH BUTTONS	2/C #12	1	2		4			6	2					
RADAR DETECTOR CABLE	2/C (POWER)	2	2		4			6	2					
	4/C (COMMUNICATION)	2	2		4			6	2					
CONDUIT	EXISTING 2" PVC	1	1		1			1	1					1
	EXISTING 3" PVC													1
	2" PVC	1												1

RADAR DETECTOR CHART

DETECTOR	DESCRIPTION
AD1	WESTBOUND APPROACH ADVANCE RADAR DETECTOR
AD2	NORTHBOUND APPROACH ADVANCE RADAR DETECTOR
AD3	EASTBOUND APPROACH ADVANCE RADAR DETECTOR
AD4	SOUTHBOUND APPROACH ADVANCE RADAR DETECTOR
PR1	EASTBOUND APPROACH PRESENCE RADAR DETECTOR
PR2	SOUTHBOUND APPROACH PRESENCE RADAR DETECTOR
PR3	WESTBOUND APPROACH PRESENCE RADAR DETECTOR
PR4	NORTHBOUND APPROACH PRESENCE RADAR DETECTOR



FORT BEND COUNTY, TEXAS

BCP Brown & Gray Engineers, Inc.
19777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-660-5700 • www.brownandgray.com
TQPE Registration No. P-1028

FM 1463 AT CINCO TRACE DR

PROPOSED TRAFFIC SIGNAL DETAILS

SHEET 1 OF 1

SCALE: NTS 18

DESIGNED BY	CK	DRAWN BY	MTS	DATE
HW	GW	HW	MTS	8/3/2015

NDA 7/21/16

11463 AT CINCO TRACE DR

12:00:36 PM

0.00'

FOR TABLE: TRANSMITTALS AND NOTICES
FILED: C:\WORK\PROJECTS\1463\FM 1463 AT CINCO TRACE DR\1463_SIGNING.PLT

PROJECT: SIGNING & PAVEMENT MARKING
FILED: C:\WORK\PROJECTS\1463\FM 1463 AT CINCO TRACE DR\1463_SIGNING.PLT

BEGIN PROJECT
STA 96+74.33
N=13,828,337.51
E=2,969,189.57

C CINCO TRACE DR

BEGIN MATCH EXIST
STA 99+11.11
20.24' LT

END MATCH EXIST
STA 99+56.43
28.28' LT

BEGIN C-K
STA 97+16.06
19.68' RT

BEGIN C-L
STA 97+16.41
30.67' RT

REMOVE EXISTING SIGN
"RIGHT LANE MUST TURN RIGHT"

REMOVE EXISTING SIGN
"STOP/ALL-WAY"

REPLACE EXISTING ALUMINUM
SIGN (CY) AT "STOP AHEAD"
WITH (2) "SIGNAL AHEAD"
(16 SF)

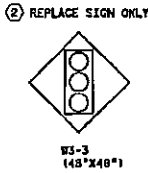
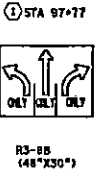
STA 100+00.00 (C CINCO TRACE DR)
STA 23+00.00 (R FM 1463)

REMOVE EXISTING SIGN
"STOP/ALL-WAY"

CORBITT RD

MATCH LINE STA 100+00.00 (C CINCO TRACE DR)
MATCH LINE STA 23+00.00 (R FM 1463)

R FM 1463



- LEGEND**
- SM RD SN
 - PROP SMALL SIGN NUMBER
 - (A) MULTIPOLYMER PAV MKR (W) (4") (BRK)
 - (B) MULTIPOLYMER PAV MKR (W) (4") (SLD)
 - (C) MULTIPOLYMER PAV MKR (W) (8") (SLD)
 - (D) MULTIPOLYMER PAV MKR (W) (12") (SLD)
 - (E) MULTIPOLYMER PAV MKR (W) (24") (SLD)
 - (F) PREFAB PAV MKR TY C(W) (ARROW)
 - (G) PREFAB PAV MKR TY C(W) (WORD)
 - (H) MULTIPOLYMER PAV MKR (Y) (4") (SLD)
 - (I) MULTIPOLYMER PAV MKR (Y) (4") (BRK)
 - (J) MULTIPOLYMER PAV MKR (Y) (24") (SLD)
 - (K) REFL PAV MKR TY I-C
 - (L) REFL PAV MKR TY II-A-A
 - (M) ELIM EXT PAV MKR & MKRS (4")
 - (N) ELIM EXT PAV MKR & MKRS (8")
 - (O) ELIM EXT PAV MKR & MKRS (24")
 - (P) ELIM EXT PAV MKR & MKRS (ARROW)
 - (Q) ELIM EXT PAV MKR & MKRS (WORD)
 - OBJECT MARKER
 - RELOCATE SM RD SN SUP & AM

NOTES:
1. STATION AND OFFSET BASED ON
C CINCO TRACE DR UNLESS NOTED
OTHERWISE.

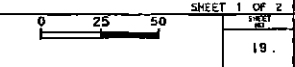
STATE OF TEXAS
GREGORY A. OFIELD
64178
LICENSED PROFESSIONAL ENGINEER
8/3/2015

FORT BEND COUNTY, TEXAS

BGE Brown & Gay Engineers, Inc.
10777 Westline, Suite 600, Houston, TX 77042
Tel: 281-428-5700 • www.browngay.com
Texas Registration No. 8-1044

FM 1463 AT CINCO TRACE DR

SIGNING & PAVEMENT MARKING
CINCO TRACE DR



DESIGNED BY	CK	DRAWN BY	APPR	DATE
WT	LB	WT		8/3/2015

NOV 7/21/16

