

August 14, 2024

J. Stacy Slawinski, P.E. Fort Bend County Engineering 301 Jackson, 4th Floor Richmond, TX 77469

On behalf of:

Fort Bend County, Texas Precinct 4

Re:

Application for Encroachment – Atmos Pipeline Line V4

(18" high-pressure gas transmission pipeline)

Project Title:

Harlem Road Reconstruction from Travis High School to Morton Road

Fort Bend County Project No. 17402

IDS Project No. 0570-006-00

Location:

Richmond, Texas in Fort Bend County

Dear Mr. Slawinski,

It is Atmos Energy Corporation's (Atmos Energy) understanding that Fort Bend County – Precinct 4 is proposing road improvements, as part of Fort Bend County Project No. 17402, that will cross Atmos Energy assets.

The project includes the installation of a permanent protective air bridge that will encroach upon Atmos Pipeline Line V4 (18" high-pressure gas transmission pipeline) at approximate pipeline station 803+65 as shown in plans titled **2B. Harlem Road FBC 17402 - Construction Drawings (Atmos Crossing Sheets)**, dated August 2023, and detailed further in sheets 66, 68, 245-250.

These plans indicate that the proposed air bridge is designed for HL93 loading and shall be able to withstand AASHTO HS20 truck load or tandem load.

For any construction equipment crossing the Atmos Energy pipelines, a timber matting airbridge per Atmos Standard 11-100-00 shall be utilized.

It is recommended that the contractor also exercise caution when working around the existing pipeline easement to avoid any direct loading on Line V4 per Atmos Energy requirements.

Contractor shall follow all Atmos Energy requirements and comply with construction procedures with regards to any excavation and/or compaction near LineV4.

Any excavation and/or compaction within the pipeline easement shall comply with the additional criteria mentioned below.

Based on the plans submitted, Atmos Energy has determined that the proposed developments will not present a significant conflict provided that this letter is executed and returned prior to the commencement of the construction and the following additional criteria are followed:

- 1. Please contact Texas 811 for line locates 72 hours prior to excavation. A representative with the Atmos Energy Damage Prevention team will then contact you to schedule an onsite meeting in advance of excavation activities within the vicinity of Atmos Energy facilities.
- 2. Atmos Energy's facilities must be exposed, and their elevations field verified prior to starting any construction activity. In the event that Atmos Energy's facilities were inaccurately represented in the proposed design, construction will not be allowed to continue in Atmos Energy's easement until the field-verified location(s) of Atmos Energy facilities have been incorporated into the project design and resubmitted to Atmos Energy for re-review and approval.
- 3. Atmos Energy's pipeline must be potholed with vacuum excavation or some other nonmechanized method.
- 4. Atmos Energy's pipeline must be visually identified through potholing as referenced above prior to any mechanical excavation. Mechanical excavation (and/or compaction), with the exception of the potholing procedure mentioned above, is not allowed within three (3') of any direction of the circumference of the Atmos Energy pipeline.
- 5. Excavation (and / or compaction) within three feet (3') of any direction of the circumference of the Atmos Energy pipeline must be done by vacuum excavation or hand digging.
- 6. Atmos Energy requires utility and road crossings to occur at or near 90-degree angles.
- 7. All underground utility lines must be installed in a substantially straight line parallel to grade under Atmos Energy's facilities and maintain a minimum vertical separation of 24 inches between the bottom of Atmos Energy's facilities and top of third-party line.
- 8. Positive drainage must be maintained within Atmos Energy's easement. Placement of any additional fill within the easement is not permitted without the prior written approval of Atmos Energy.
- 9. At no time may cover be removed from the easement or right-of-way without the prior written approval of Atmos Energy and in no case may cover over Atmos Energy's facilities be reduced to less than 24 inches (top of grade to top of pipe).
- 10. Equipment crossing the easement or right-of-way during construction must be evaluated by Atmos Energy for external loads to determine if additional cover or other protective measures over the facilities are required.
- 11. Atmos Energy's easement will be protected from washing and erosion during construction and/or repairs.
- 12. Equipment, materials, or excess dirt will not be stored on the easement during construction without the prior written approval of Atmos Energy.

- 13. Atmos Energy will not be responsible for damage to any allowed encroachments.
- 14. Atmos Energy reserves the right for future uses of this easement, including but not limited to, ingress and egress, reconstructing, removing, relocating, maintaining, operating, etc., of any of its facilities.
- 15. Impact/conflict analysis was based on and is limited to drawings and documents submitted to Atmos Energy, as referenced above. ANY change in scope of work contained in these drawings must be resubmitted for re-review and approval.

You are not authorized to commence work until we have received a signed copy of this letter acknowledging receipt.

If you have any questions or if I may be of additional assistance, please feel free to contact Korey LeMond, at 979-286-4939, or myself, at 469-548-3404.

Sincerely,

Marco Delira

Manager of Engineering Services Atmos Energy Corporation 297 N Earl Rudder Bryan, TX 77802

CC.

Korey LeMond (Atmos Energy Engineering) Tyler Skaggs (Atmos Energy ROW Agent) John Pearson (Atmos Energy Operations) Kayleen Jones (Atmos Energy Damage Prevention) Signature:

Name: KF

Company: Fort Bend County

Title: County Judge

Date: October 9, 2024

Approved by Commissioners Court on 10/8/2024

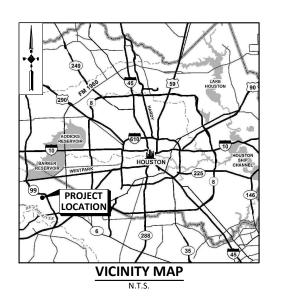
# FORT BEND COUNTY ENGINEERING DEPARTMENT

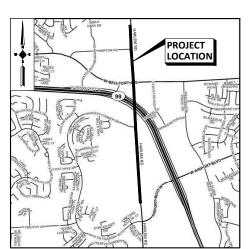
# **CONSTRUCTION PLANS**

**FOR** 

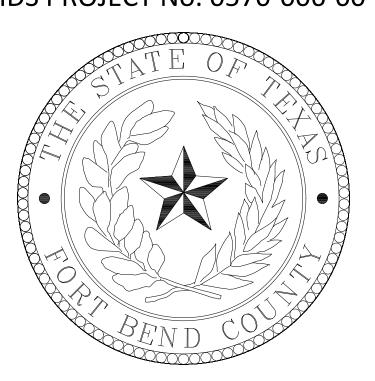
# HARLEM ROAD RECONSTRUCTION FROM TRAVIS HIGH SCHOOL TO MORTON RD

FORT BEND COUNTY PROJECT NO. 17402
PRECINCT 4
IDS PROJECT No. 0570-006-00





N.T.S. (KEY MAP # 526Y, 566C)



AUGUST 2023



08/04/2023

13430 Northwest Fwy., Ste. 700 Houston, Texas 77040 713.462.3178 TBPE F-002726 | TBPLS 10110700

# FORT BEND COUNTY COMISSIONERS COURT

KP GEORGE

COUNTY JUDGE

VINCENT MORALES, JR.

PRECINCT 1

ANDY MEYERS
PRECINCT 3

ED STURDIVANT, CPA
COUNTY AUDITOR

GRADY PRESTAGE
PRECINCT 2

DEXTER L. McCOY
PRECINCT 4

J. STACY SLAWINSKI, P.E.

COUNTY ENGINEER

FORT BEND COUNTY ENGINEER

ENGINEER:

J. Stacy Slawinski, P.E.

DATE

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

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
TEXAS 811
STATEWIDE NUMBER 811

# FORT BEND COUNTY CONSTRUCTION NOTES

- FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
- 2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOURS NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PACING AT CONSTRUCTION @ FBCTX.GOV
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITI
- 4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES REGULATIONS AND REQUIREMENTS " RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
- 5. ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATE BACK OF CURB.
- 6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURB.
- ALL CONCRETE PAVEMENT SHALL BE 5 ½ SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
- 8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT
- 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
- 10. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
- 11. GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC. DURING CONSTRUCTION BOTH DAY AND NIGHT.
- 12. ALL R1-1 STOPS SIGNS SHALL BE A MINIMUM OF 36"X36" WITH DIAMOND GRADE SHEETING
- 13. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/ REFLECTIVE GREEN STACE I MAINE SIGNAGE SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP
- 14 A RILIE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
- 15. THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY AND FORT BEND GRAND PARKWAY TOLL ROAD AUTHORITY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR TO DISCOVER OR REJECT ANY OF THE WORK AS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THIS PROJECT SHALL BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER
- 16. STABILIZED SUBGRADE: DETERMINE THE THICKNESS OF THE STABILIZED SUBGRADE AFTER CURING AND COMPACTION. IF THE SUBGRADE DEPTH IS GREATER THAN THE PROPOSED THICKNESS BY 20% OR MORE, THE CMT LAB MUST PROVIDE VERIFICATION OF PERCENTAGE OF MATERIAL BEING USED TO STABILIZE THE SUBGRADE MEETS OR EXCEEDS PROJECT EQUIREMENTS. TEST RESULTS REQUIRED.

# NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

# CERTAIN CONSTRUCTION EVENTS NOTE:

CONTRACTOR SHALL NOTIFY THE ENGINEER'S REPRESENTATIVE AT LEAST 24 HOURS IN ADVANCE OF CERTAIN CONSTRUCTION EVENTS DEFINED BELOW:

- BACKELL OF LITHITY CROSSINGS AT STREETS
- BACKFILL OF UTILITIES WHERE EDGE OF TRENCH IS WITHIN 1 FOOT OF PAVEMENT SUBGRADE PROOF ROLL OF SUBGRADE
- SUBGRADE STABILIZATION
- COMPLETION OF REINFORCED STEEL PLACEMENT FOR PAVEMENT
- CONCRETE PAVEMENT POLIS
- COMPLETION OF REINFORCED STEEL PLACEMENT FOR CURB
   CONCRETE CURB POURS

# GENERAL CONSTRUCTION NOTES

- 1. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. F A CONFLICT FXISTS RETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE IELD, CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY
- 2. CONTRACTOR TO INFORM THE ENGINEER OF ANY DISCREPANCY IN FLOWLINES, LID. AND GRATE FLEVATIONS PRIOR TO CONSTRUCTION
- CONTRACTOR IS RESPONSIBLE FOR HIS OWN HORIZONTAL & VERTICAL CONTROL, REFERENCE POINTS, AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.
- ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THI CONTRACTOR SHALL REQUEST THE EXACT LOCATION OF THESE FACILITIES BY CALLING THE ONE-CALL NOTIFICATION SYSTEM. CONTRACTOR SHALL GIVE NOTICE TO TEXAS811 (TELEPHONE NUMBER 811) REQUESTING THE LOCATION OF UNDERGROUND FACILITIES AND UTILITY LINES AT EACH EXCAVATION SITE AS REQUIRED BY TEXAS UTILITIES CODE. CHAPTER 251, NOT FARLIER THAN THE 14TH DAY BEFORE THE DATE THE EXCAVATION IS TO BEGIN OR LATER THAN THE 48 HOUR REFORE THE TIME THE EXCAVATION IS TO REGIN EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO REQUEST THE LOCATION AND PRESERVATION OF THESE UNDERGROUND FACILITIES. CONTRACTOR SHAL COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERNING AGENCY, NO SEPARATE
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES, DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH FORT BEND COUNTY SPECIFICATIONS AND STANDARDS AT NO ADDITIONAL COST.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO FORT BEND COUNTY STANDAR
- 9. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION, UNLESS OTHERWISE NOTED TO BE REMOVED. ANY TREES NOT NOTED FOR REMOVAL SHALL BE PROTECTED IN PLACE.
- 11. CONTRACTOR SHALL HYDROMULCH SEED ALL DISTURBED AREAS UNLESS OTHERWISE
- 12. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK
- 13. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
- 14. CONTRACTOR TO REMOVE PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED
- 15. ALL UTILITY TRENCHES TO BE BACKFILLED TO 95 PERCENT STANDARD PROCTOR DENSITY LINLESS OTHERWISE NOTED
- 16. AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES AND ANY SPOIL MATERIAL, VEGETATION & DEBRIS SHALL BE HAULED & DISPOSED OF OFF-SITE, i.e. THE PROPERTY SHALL BE MADE EQUAL TO OR BETTER THAN THE EXISTING SITE CONDITION PRIOR TO CONSTRUCTION.
- 17. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS WITH ANY FIELD CHANGES MADE TO THE APPROVED ENGINEERING PLANS AND SUBMIT TO THE ENGINEER AND OWNER UPON COMPLETION OF CONSTRUCTION.
- 18. ALL WORK MUST TAKE PLACE BETWEEN THE HOURS OF 9:00 A.M. AND 4:00 P.M. MONDAY THROUGH FRIDAY, ONE MOVING LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED DURING WORK HOURS.
- 19. OFF DUTY UNINFORMED POLICE OFFICER(S) REQUIRED TO DIRECT TRAFFIC WHERE TRAFFIC
- 20. CONTRACTOR SHALL CONTACT THE FOLLOWING A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

TEXAS 811 ORT BEND COUNTY ENGINEERING OFFICE. CONSTRUCTION@FORTBENDCOUNTYTX.GOV

# STORM SEWER CONSTRUCTION NOTES

- STORM SEWERS AND LEADS SHALL BE REINFORCED CONCRETE PIPE, C-76, CLASS III WITH RUBBER GASKETED JOINTS, AND SHALL BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH HARRIS COUNTY SPECIFICATIONS AND STANDARDS, AS APPLICABLE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 2. ALL GRAVITY STORM SEWERS SHALL BE CONSTRUCTED STARTING AT THE OUTFALL POINT OR AT THE ULTIMATE POINT OF CONNECTION AND THEN CONSTRUCTED MOVING UPSTREAM
- ALL PROPOSED PIPE STUB OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8-INCH BRICK WALLS UNLESS OTHERWISE NOTED.
- 4 ALL CEMENT STABILIZED SAND FOR STORM SEWER CONSTRUCTION TO MEET HARRIS COUNTY SPECIFICATIONS AND STANDARDS WITH EXCEPTION THAT A MINIMUM 1 1/2 SACK CEMENT PER TON OF DRY SAND SHALL BE PROVIDED.
- ALL SEWER TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS, UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH MIN. 1.5
  SACK CEMENT PER TON STABILIZED SAND UP TO ONE (1) FOOT BELOW THE PAVING SUBGRADE. BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING NO. FBC-050, UNLESS WET/UNSTABLE SOIL CONDITIONS EXIST AS DESCRIBED BELOW. INCLUDE COST OF CEMENT STABILIZED SAND BACKFILL IN UNIT PRICE BID PER LINEAR FOOT FOR STORM SEWER LINE, INCLUDING LEADS, IN APPROPRIATE SIZES. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6-INCH LAYERS, WITH TEST TAKEN AT 100 FOOT INTERVALS ON FACH LIFT AND MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM
- 6. SPECIAL NOTES FOR WET SAND CONSTRUCTION:
  - A. WHEN TRENCH CONDITIONS REQUIRE THE USE OF WELL POINTS, SHEETING, AND BRACING, OR SEAL SLAB OR CRUSHED STONE PER HARRIS COUNTY SPECIFICATIONS AND STANDARDS. THESE ARE TO BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE.
  - R NOT LISED

ADVERTISEMENT SIGN

ASPHALT

'B' INLET

BUSH

'B-B' INLET

BRICK PILLAR

'C' INLET (ALL)

CATCH BASIN

CORF BORE

'F' INLET

CABLE TV JUNCTION BOX

CARLETY LINDS MARKER

CENTER LINE OF STREET

ELECTRICAL JUNCTION BOX

EXIST. SANITARY M H

FENCE LINE(CHAIN LINK)

FENCE LINE(WOOD)

FENCE CORNER

FIRE HYDRANT

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- C. WELL POINTING SHALL BE PAID FOR SEPARATELY.
- ALL STORM SEWER INLETS TO BE RACKELLED WITH CEMENT STABILIZED SAND TO BOTTOM BACKFILL IN UNIT PRICE BID PER INLET.
- ALL MANHOLES SHALL BE IN ACCORDANCE WITH FORT BEND COUNTY DETAILS UNLESS
- PROVIDE A MINIMUM OF 1' (ONE FOOT) CLEARANCE AT STORM SEWER AND WATER LINE
- 10. ALL STORM SEWER MANHOLE RIMS SHALL BE FLUSH WITH PAVEMENT OR 2 INCHES ABOVE THE FINISHED GRADE IN NON-PAVED AREAS
- 11. BETWEEN THE TIME THAT STORM SEWER IS PLACED AND MANHOLES AND INLETS ARE BUILT, ALL PIPE OPENINGS SHALL BE SUFFICIENTLY PLUGGED PER FORT BEND COUNTY SPECIFICATIONS AND STANDARDS TO KEEP SEDIMENT FROM ACCUMULATING IN THE PIPE.
- 12. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREAS SHALL BE GRADED, SEEDED, AND FERTILIZED.

EXISTING SYMBOL LEGEND

GAS SERVICE LINE MARKER

CENTERPOINT MANHOLE

METAL POST (BOLLARD)

NOT FIELD VERIFIED -FROM RECORD DRAWINGS

OVERHEAD POWER LINES

PIPELINE MARKER

RADIO RELAY MAST

POWER POLE

PUBLIC PHONE

CENTERPOINT TOWER LEG

CENTERPOINT UNDG. CABLE MARKER TCB

FLAG POLE

GAS LAMP

GAS METER

GAS VALVE

GREASE TRAI

GLIY WIRE

LIGHT

MAIL BOX

GATE

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# CENTERPOINT ENERGY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

# THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 JOURS PRIOR TO CONSTRUCTION TO HAVE MAIN SERVICE LINES FIELD

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL 713-207-5463 OR 713-945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING
- •• FOR EMERGENCIES REGARDING GAS LINES CALL 713-659-3552 OR 713-207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

# WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- .. ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE
- .. OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG. PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

# ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN JE VOLUNEED TO LISE CENTERPOINT PROPERTY PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT 713-207-6348 OR 713-207-5769.

## GEOTECHNICAL NOTES:

SANITARY CLEAN OUT

SERVICE POLE

S.W.B.T. M H

STORM M H

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SIGN STANDARD

STREET BARRICADE

TELEPHONE POLE

TRAFFIC SIGN

TRFF

VENT PIPE

WATER METER

WATER VALVE

WATER WELL

WELLHEAD

STREET LIGHT STANDARD

TELEPHONE JUNCTION BOX

TRAFFIC LIGHT STANDARD

UNDG. TELE. CABLE MARKER

TRANSFORMER BOX

TRAFFIC SIGNAL CONTROL BOX

- 1. ALL GRADING, BACKFILL, SUBGRADE PREPARATION, COMPACTION AND PAVING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND ANY ADDENDUMS THERETO AS PREPARED BY HTS, INC. CONSULTANTS, DATED MAY 2020, PROJECT NO. 20-5-190
- 2. EARTH BACKFILL SHALL BE MADE BY MECHANICAL MEANS TO PRODUCE A DENSITY EQUAL
- ALL AREA TO BE FILLED SHALL BE FREE OF VEGETATION, DEBRIS, PONDING WATER, LOOSE SOILS, MUD & MUCK. CLEARING, GRUBBING, STRIPPING & PROOF ROLLING SHALL BE PER THE GEOTECHNICAL REPORT.

MH - MANHOLF

SAN. - SANITARY

STM. - STORM

EXIST. - EXISTING

STA. - STATIO

B.L. - BASELINE OF BUILDING LINE

SWR. - SEWER

DIA. - DIAMETER

EL. - ELEVATION

L.F. - LINEAR FEET

RP - RADIUS POINT

W.L.E. - WATER LINE

RED - REDUCER

S/O - SLIP ON

PVT. - PRIVATE

B/F - BLIND FLANG

B.W. - BOTTOM WIDTH

B.O.V. - BLOW OFF VALVE

R.J.P. - RESTRAINED JOINT PIPE

FSMT - FASEMENT

S.S.E. - SANITARY SEWER EASEMENT

U.E. - UTILITY EASEMENT

D.E. - DRAINAGE EASEMENT

RT. - RIGHT

R.O.W. - RIGHT-OF-WAY

N.G. - NATURAL GROUND

E.G. - EXISTING GROUND

ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL

# **VERIFICATION OF PRIVATE UTILITY LINES**

roved for AT&T Texas/SWBT underground conduit facilitie

RICHARD A. FULLEF 90951 08/04/2023

IDS **Engineering Group** 

Houston, Tx. 770-713.462.31 TxEng Firm 2

AUGUST 2023 AA 0570-006-00 BENCHMARK

# ORK DEPICTED HERON IS REFERENCED TO THE TEXA

ORDINATES SYSTEM OF 1983, SOUTH CENTRAL ZONE AND WATERMINED BY GLOBAL POSITIONING SYSTEMS METHODS. ALL ND COORDINATES LISTED ARE SURFACE AND CAN BE BROUGHT TO GRID BY PPLYING A COMBINED PROJECT SCALE FACTOR = 0.99987872081.

ELEVATION REFERENCE - N.G.S. A-1212 (1973) [PID AW4725] -FOUND BRASS DISK ON TOP OF WEST END OF NORTH CONCRETE HEADWALL ON BOX CULVERT UNDER U.S. HIGHWAY NO. 90-A WEST-BOUND LANES AT WEST SIDE OF HARLEM ROAD. ELEVATION = 78.18' (NAVD88)

# **HARLEM ROAD** RECONSTRUCTION

# **CONSTRUCTION NOTES**

DRAWING SCALE VERT: N/A

FILE NO ORZ: N/A

P.C.C. - POINT OF COMPOUND CURVATURE M.C.D.R.- MONTGOMERY COUNTY DEED M.C.M.R.-MONTGOMERY COUNTY MAP RECORDS T.P. - TOP PAVEMENT

IT. - LEET

C.L. - CENTER LINF

T.C. - TOP OF CURB

W.L. - WATER LINE

W - WEST

E - EAST

S - SOUTH

N - NORTH

F.V. - FLUSHING VALVE

CONC. - CONCRETE

PVMT. - PAVEMENT

F.L. - FLOW LINE

R - RADIUS

G.V. - GATE VALVE

PC - POINT OF CURVATURE

PT - POINT OF TANGENCY

E.O.P. - END OF PROJECT

P.O.C. - POINT ON CURVE

S.S. - SIDE SLOPE

MOD. - MODIFIED

N.F.V. - NOT FIELD VERIFIED

P.R.C. - POINT OF REVERSE CURVE

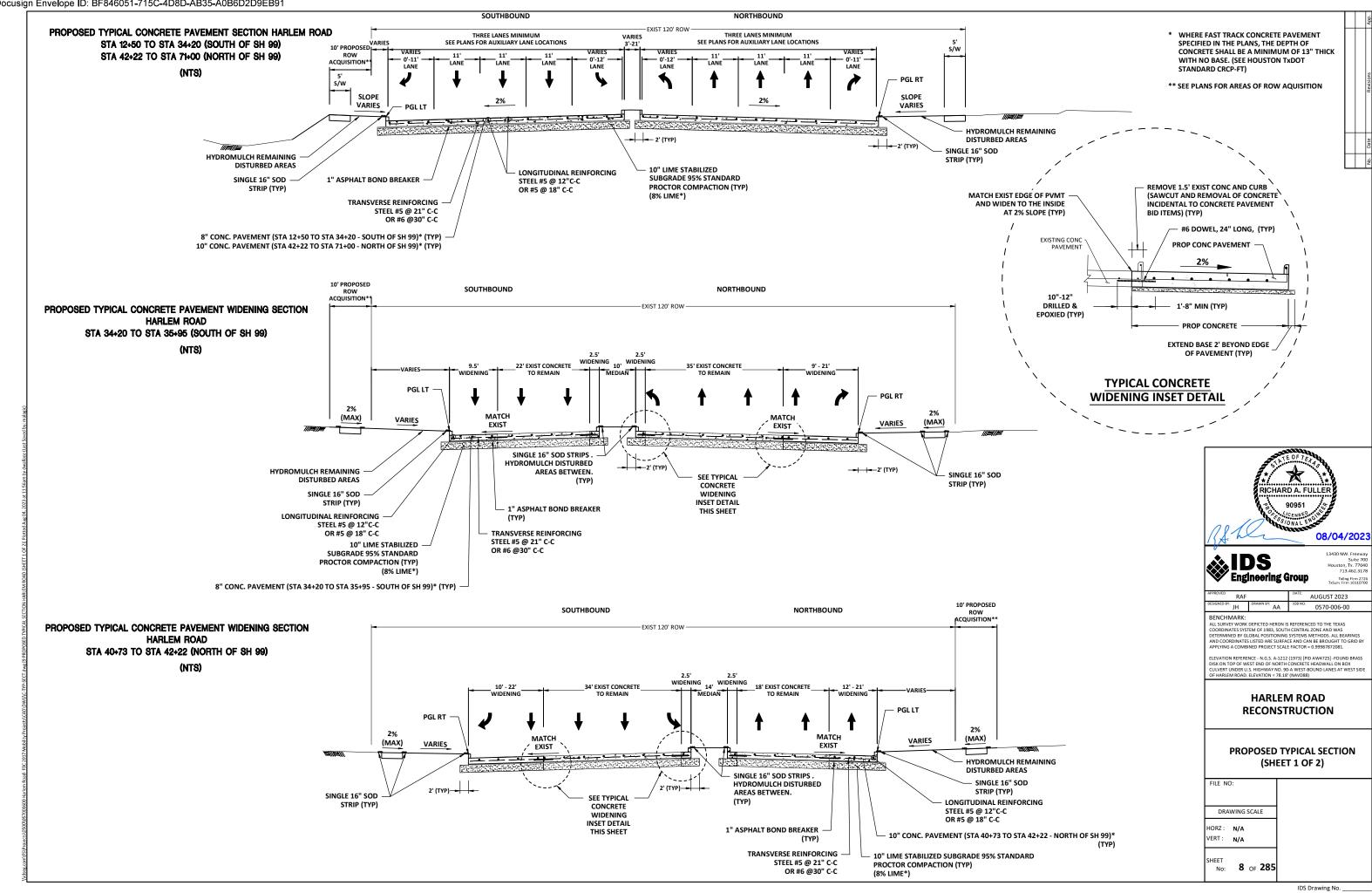
O.P.R.R.P. - OFFICIAL PUBLIC
RECORDS OF REAL PROPERTY.

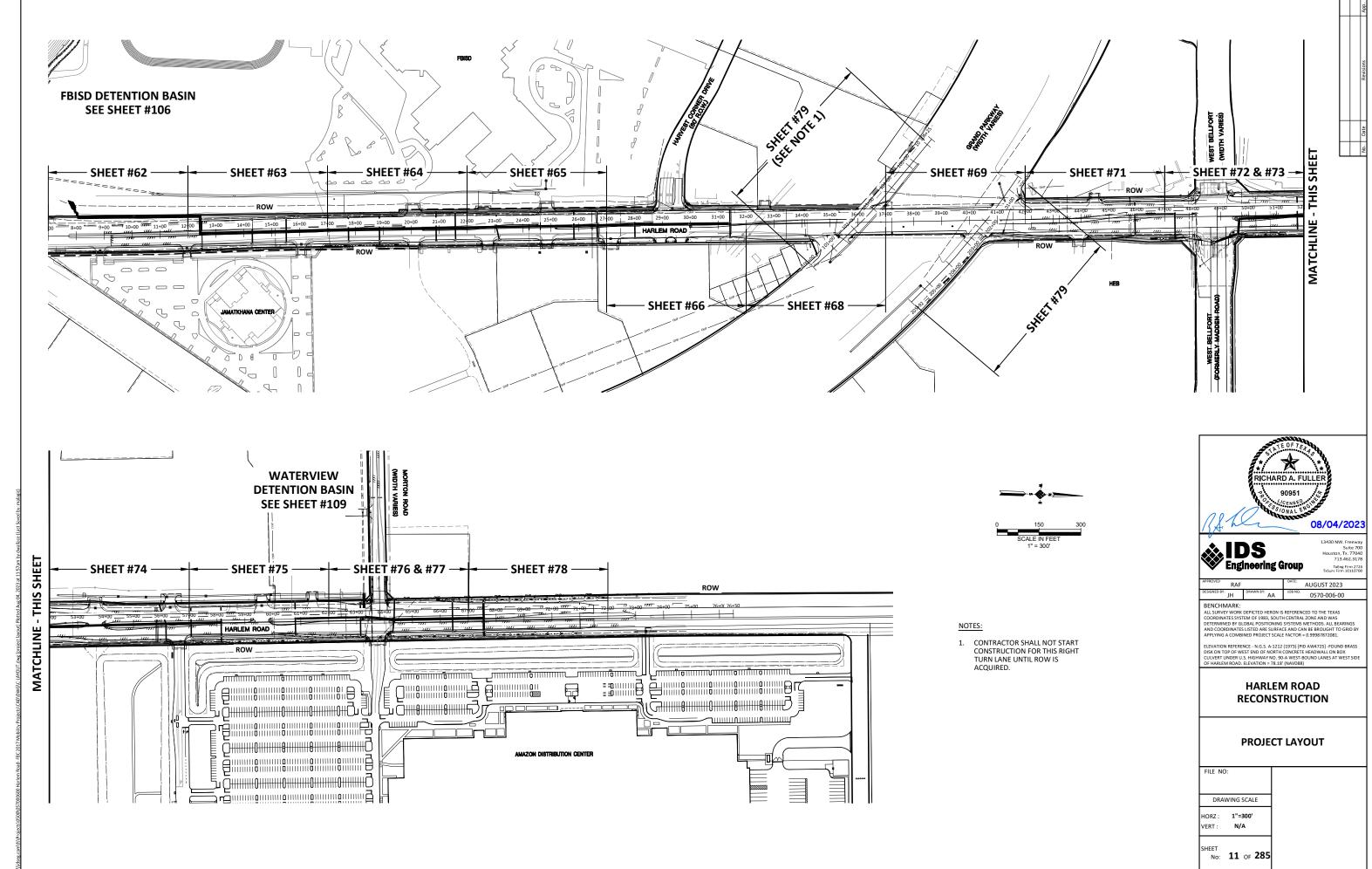
E.P. - EDGE OF PAVEMENT

P.A.E./P.U.E. - PUBLIC ACCESS EASEMENT PUBLIC UTILITY EASEMENT M.C.R.P.R. - MONTGOMERY COUNTY REAL PROPERTY RECORDS CMP - CORRUGATED METAL PIPE CPP - CORRUGATED PLASTIC PIPE B.O. w/BOX - BLOW OFF VALVE WITH BOX L.T.D. - LOAD TRANSFER DEVICE

No: 4 OF 285

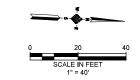
IDS Drawing No. \_\_\_

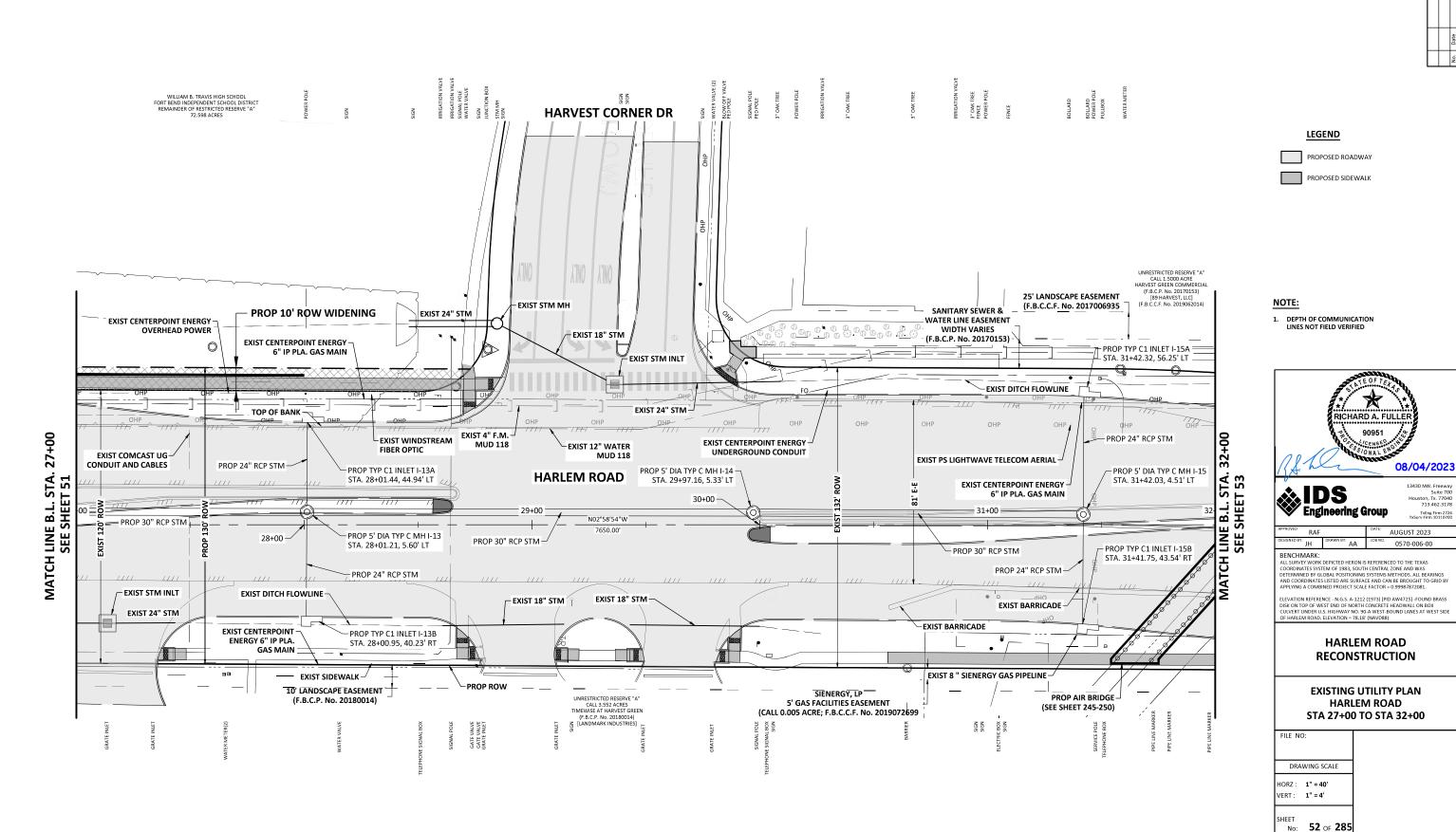


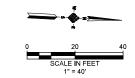


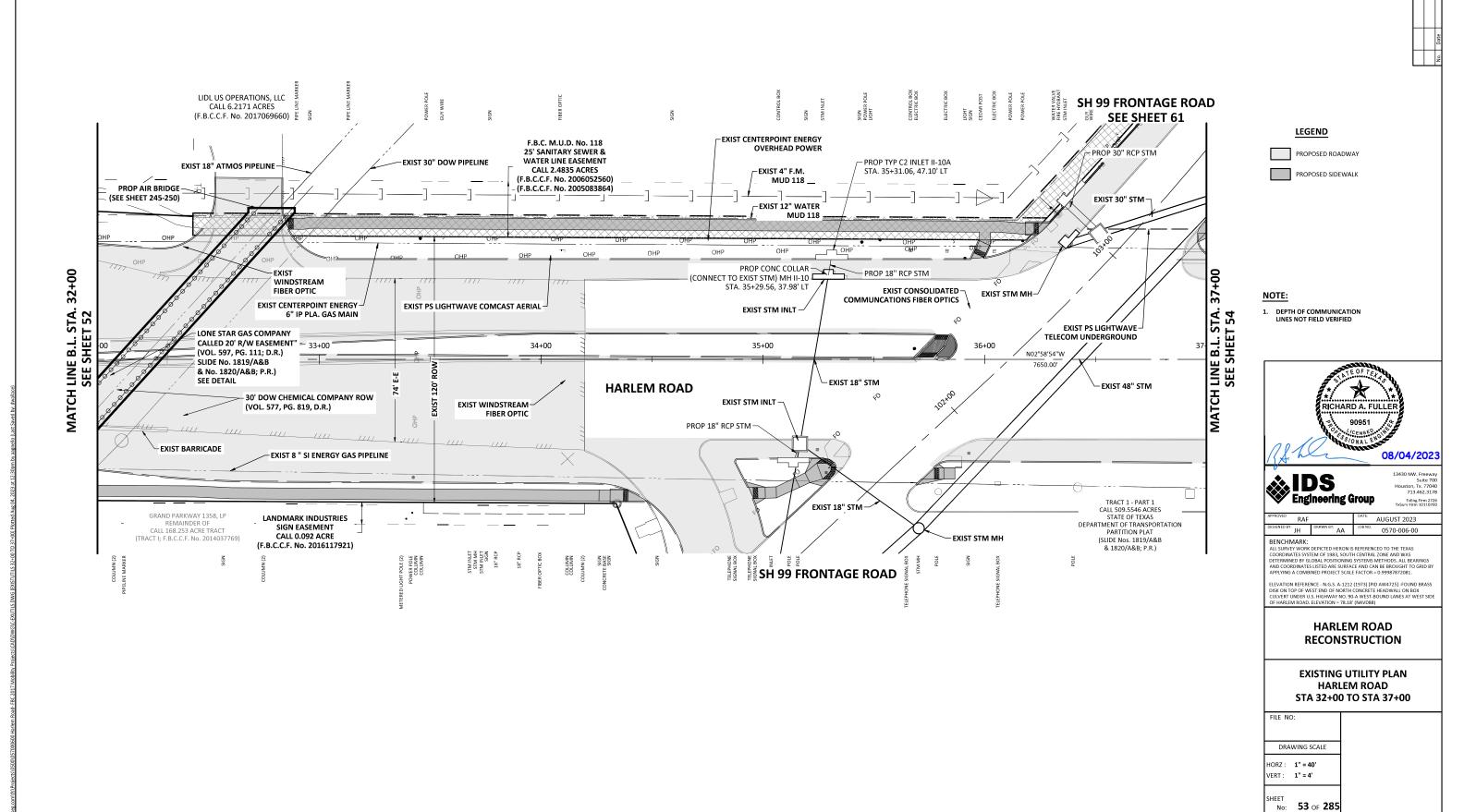
No: 42 OF 285

No: 43 OF 285

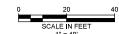


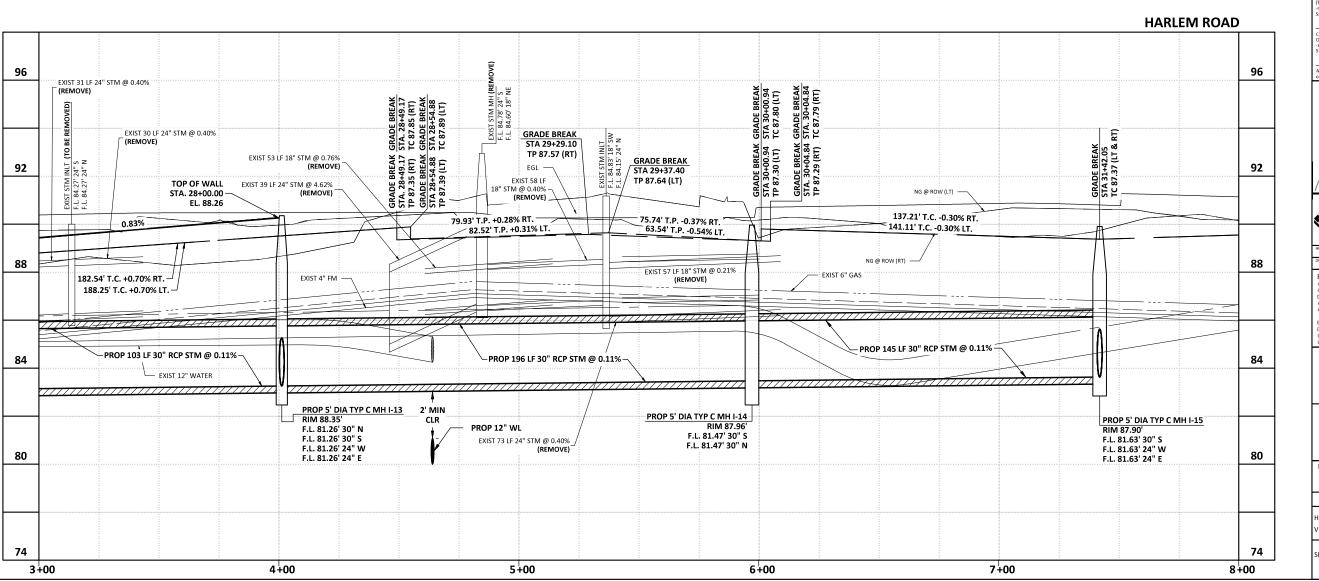






No: 66 OF 285





ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL NTERPOINT ENERGY AT 713-207-2222.

VERIFICATION OF PRIVATE UTILITY LINES



IDS Engineer

13430 NW. Freeway Suite 700 Houston, Tx. 77040 713.462.3178 TxEng Firm 272 TxSurv Firm 1011070

AUGUST 2023 Y: AA 0570-006-00

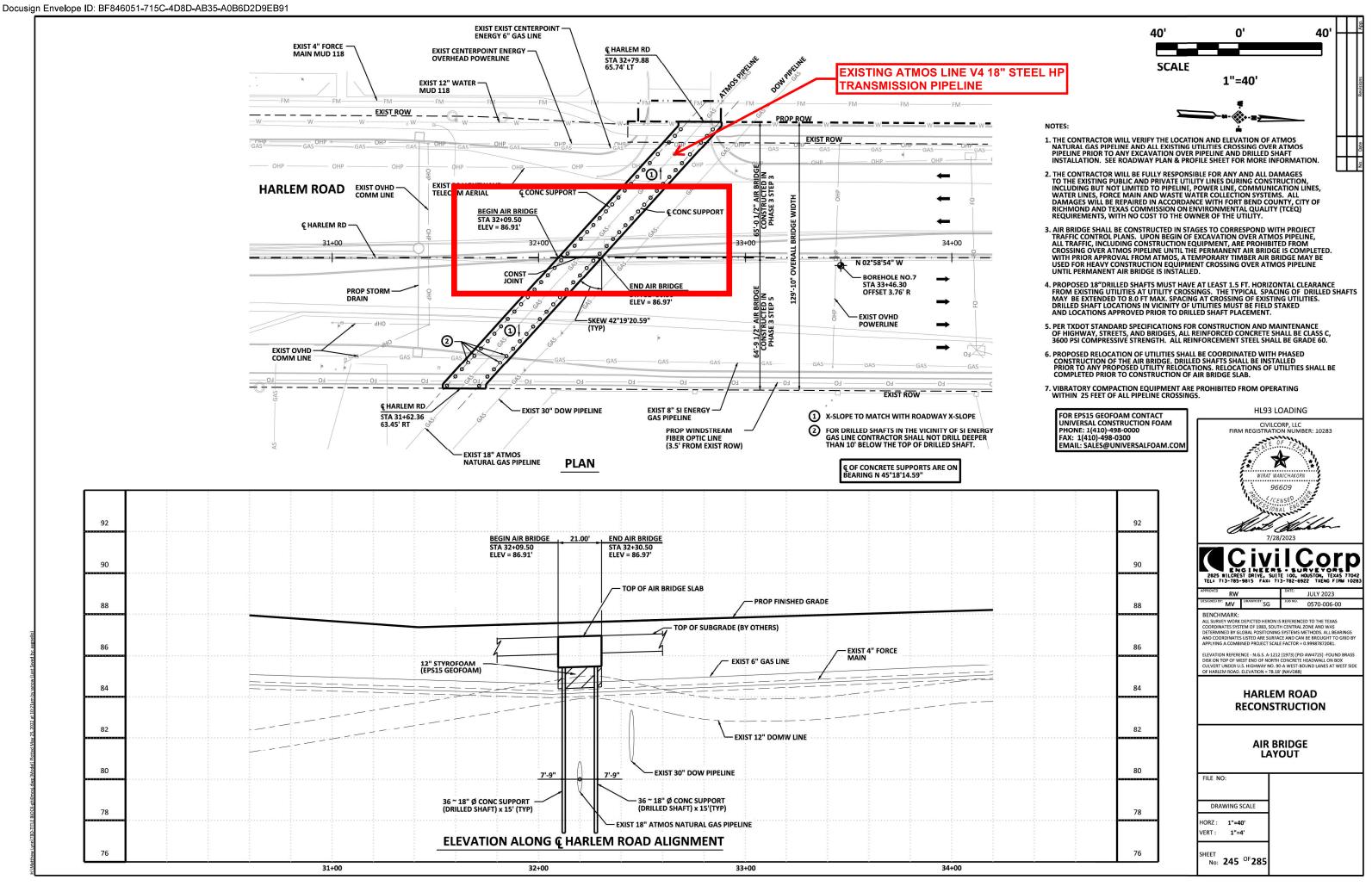
BENCHMARK:
ALL SURVEY WORK DEPICTED HERON IS REFERENCED TO THE TEXAS
CORDINATES SYSTEM OF 1983, SOUTH CENTRAL ZONE AND WAS
DETERMINED BY GLOBAL POSITIONING SYSTEMS METHODS. ALL BEARINGS
AND COORDINATES LISTED ARE SURFACE AND CAN BE BROUGHT TO GRID BY
APPLYING A COMBINED PRODECT SCALE FACTOR = 0.99987872081.

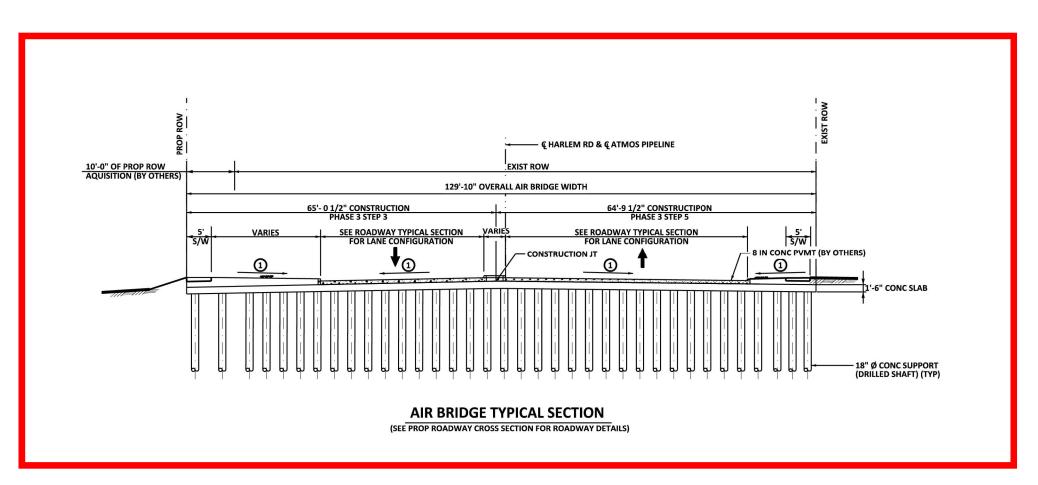
ELEVATION REFERENCE - N.G.S. A-1212 (1973) [PID AW4725] -FOUND BRASS DISK ON TOP OF WEST END OF NORTH CONCRETE HEADWALL ON BOX CULVERT UNDER US. HIGHWAY N.O., 90.A WEST-BOUND LANES AT WEST SIDE OF HARLEM ROAD. ELEVATION = 78.18' (NAVD88)

# **HARLEM ROAD RECONSTRUCTION**

# SIGNAGE AND STRIPING PLAN HARLEM ROAD STA 1+00 TO STA 5+00

FILE NO: DRAWING SCALE HORZ : 1" = 40' VERT : 1" = 4' No: **67** OF **285** 





1 SEE PROP ROADWAY CROSS SECTIONS FOR X- SLOPE AND ROADWAY PAVEMENT SECTION ON AND OFF THE AIR BRIDGE

**HL93 LOADING** 



MV DF

**HARLEM ROAD** RECONSTRUCTION

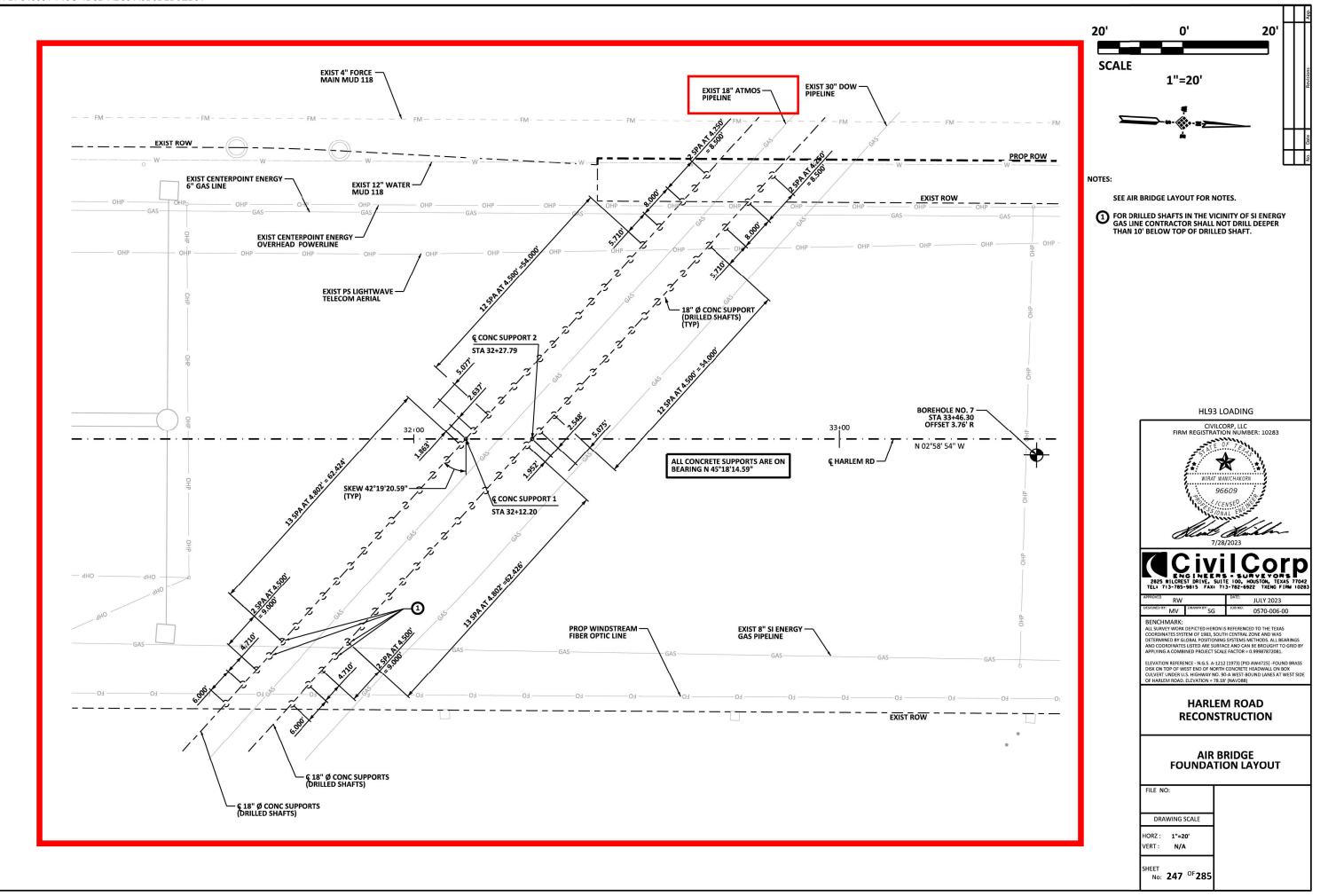
AIR BRIDGE TYPICAL SECTION

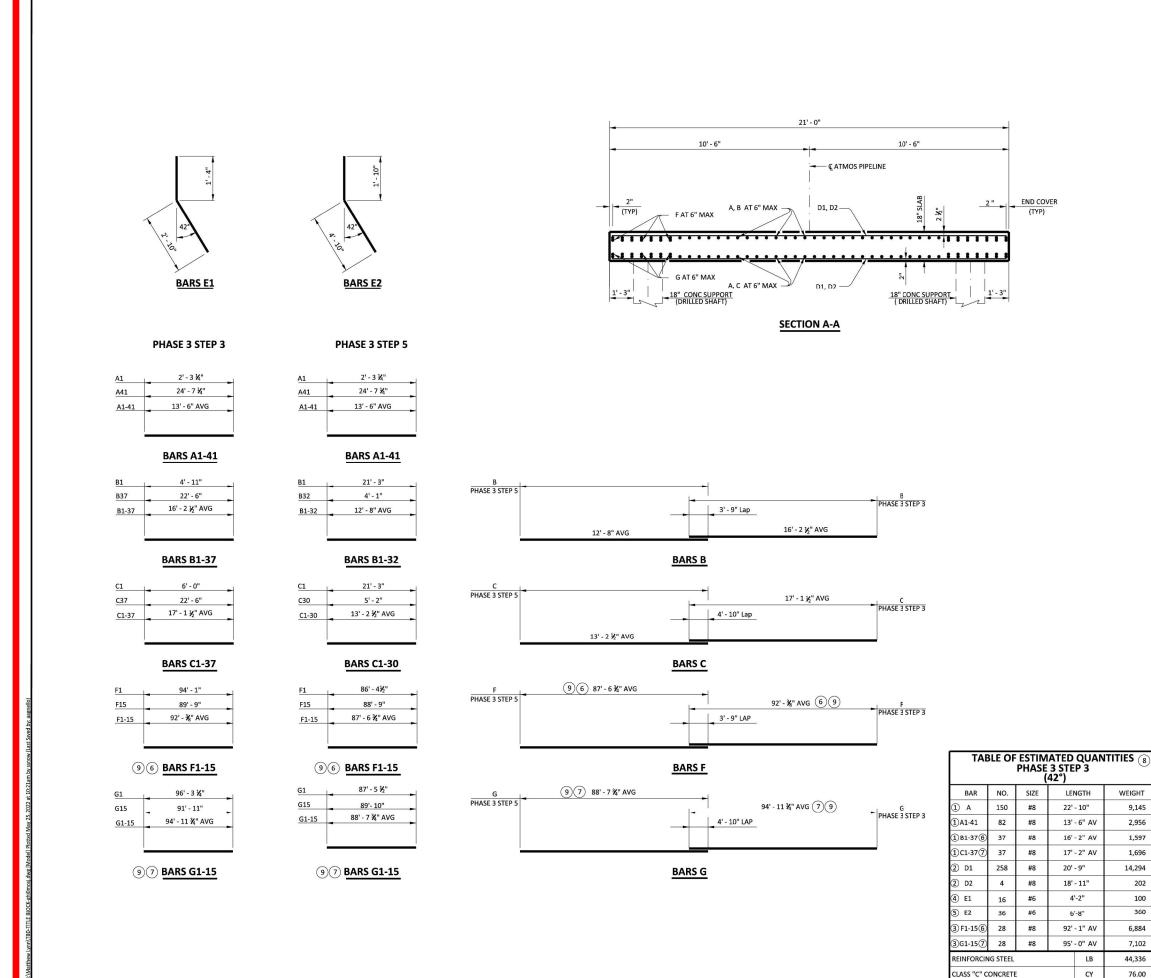
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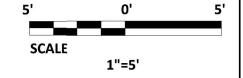
DRAWING SCALE

HORZ: 1"=20' VERT: N/A

SHEET No: **246** OF **285** 







# **GENERAL NOTES:**

DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

# **MATERIAL NOTES:**

PROVIDE CLASS C CONCRETE (f'c = 3,600 PSI).

PROVIDE GRADE 60 REINFORCING STEEL.

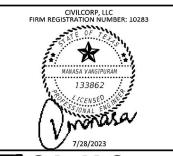
REINFORCEMENT OF CONCRETE SLAB SHALL CONFORM TO ITEM 440 "REINFORCEMENT FOR CONCRETE" AS PER TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES.

BOTTOM OF CONCRETE SLAB SHALL NOT BE IN DIRECT CONTACT WITH SOIL. PROVIDE 12-INCH DEEP STYROFOAM (ESP13 GEOFOAM) BETWEEN BOTTOM OF SLAB AND TOP OF SOIL UNDER THE BRIDGE. 12-INCH STYROFOAM (ESP13 GEOFOAM) WILL NOT BE PAID FOR DIRECTLY. IT WILL BE INCIDENTAL TO THE INSTALLATION OF 18-INCH REINFORCED CONCRETE SLAB.

COVER DIMENSIONS ARE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE. REINFORCING BAR DIMENSIONS SHOWN ARE OUT-TO-OUT OF BAR.

- 1 BARS A (TOP & BOTT), A1-41 (TOP & BOTT), B1-37 (TOP) AND C1-37 (BOTT) AT 6" MAX SPACING
- 2 BARS D1 (TOP & BOTT) AND D2 (TOP & BOTT) AT 6" MAX SPACING
- 3 BARS F (TOP) AT 6" MAX SPACING BARS G (BOTT) AT 6" MAX SPACING
- 4 PLACE BARS E1 WITH BARS D1 AND D2 AT CONSTRUCTION JOINT. (SEE PLAN FOR PLACEMENT.)
- 5 PLACE BARS E2 WITH BARS F AND G AT BRIDGE ENDS. (SEE PLAN FOR PLACEMENT.)
- 6 LENGTH SHOWN INCLUDES ONE 3'-9" LAP SPLICE FOR TOP REINFORCEMENT
- (7) LENGTH SHOWN INCLUDES ONE 4'-10" LAP SPLICE FOR BOTTOM REINFORCEMENT.
- 8 QUANTITIES ARE FOR CONTRACTORS INFORMATION ONLY.
- 9 NO MORE THAN 50 PERCENT OF REINFORCEMENT SHALL BE SPLICED AT ONE LOCATION.

**HL93 LOADING** 



KW		JULY 2023		
DESIGNED BY: MV	DRAWN BA:	JOR NO.	0570-006-00	

BENCHMARK:
ALL SURVEY WORK DEPICTED HERON IS REFERENCED TO THE TEXAS
COORDINATES SYSTEM OF 1983, SOUTH CENTRAL ZONE AND WAS
DETERMINED BY GLOBAL POSITIONING SYSTEMS METHODS. ALL BEARINGS
AND COORDINATES LISTED ARE SURFACE AND CAN BE BROUGHT TO GRID BY
APPLYING A COMBINED PROJECT SCALE FACTOR = 0.99987872081.

ELEVATION REFERENCE - N.G.S. A-1212 (1973) [PID AW4725] -FOUND BRASS DISK ON TOP OF WEST END OF NORTH CONCRETE HEADWALL ON BOX CULYERT UNDER U.S. HIGHWAY NO. 90-A WEST-BOUND LANES AT WEST SIDE OF HARLEM ROAD. ELEVATION = 78.18' (NAVD88)

# **HARLEM ROAD RECONSTRUCTION**

# AIR BRIDGE SLAB PLAN (2 OF 2)

FILE NO:
DRAWING SCALE
HORZ: NTS VERT: N/A
SHEET No: <b>249</b> OF <b>285</b>

9,145	① A	144	#8	22' - 10"		8,779	I⊢
2,956	①A1-41	82	#8	13' - 6" AV		2,956	Ш
1,597	① B1-32	32	#8	12'	-8" AV	1,082	Ш
1,696	①C1-30	30	#8	13' - 3" AV		1,061	Ш
14,294	② D1	250	#8	20' - 9"		13,851	FIL
202	② D2	4	#8	18' - 11"		202	Ш
100	4 E1	16	#6	4'-2"		100	۱⊢
360	⑤ E2	36	#6	6'-8"		360	но
6,884	③ F1-15	28	#8	87' - 7" AV		6,548	VEF
7,102	③G1-15	28	#8	88' - 8" AV		6,629	۱⊢
44,336	REINFORCING STEEL			LB	41,568	SHE	
76.00	00 CLASS "C" CONCRETE				CY	75.00	Ш

TABLE OF ESTIMATED QUANTITIES (8)

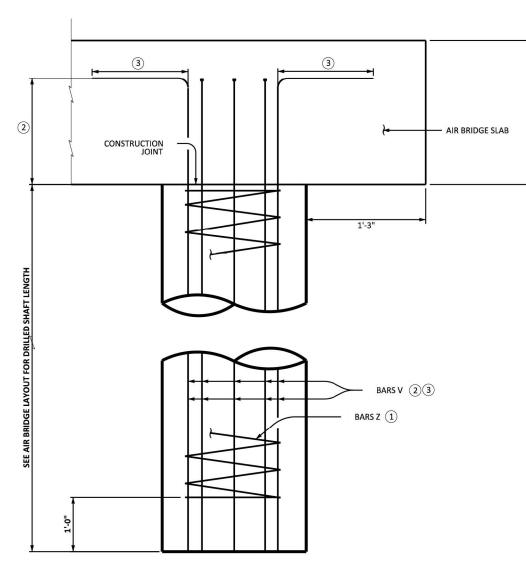
LENGTH

PHASE 3 STEP 5 (42°)

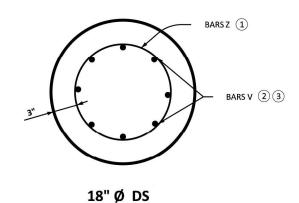
SIZE

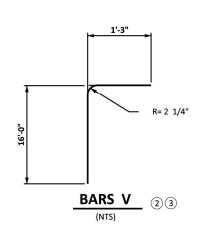
NO.

CLASS "C" CONCRETE



# AIR BRIDGE DRILLED SHAFT DETAIL





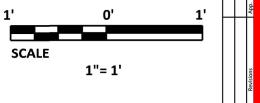


TABLE OF SUPPORT QUANTITIES						
ONE 18" Ø DS						
BAR	NO.	SIZE	LENGTH		WEIGHT	
٧	8	#6	17'-3"		207	
Z	1	#3	90'-6"		34	
REINFORCING STEEL			LB	241		
CLASS "C" CONCRETE			CY	0.98		

# **MATERIAL NOTES:**

PROVIDE CLASS C CONCRETE (f'c = 3,600 PSI), UNLESS SHOWN OTHERWISE.

PROVIDE GRADE 60 REINFORCING STEEL.

CONCRETE FOR DRILLED SHAFTS SHALL CONFORM TO ITEM 416 " DRILLED SHAFT FOUNDATIONS" AS PER TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES.

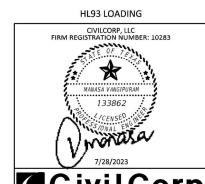
# **GENERAL NOTES:**

COVER DIMENSIONS ARE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE. REINFORCING BAR DIMENSIONS SHOWN ARE OUT-TO-OUT OF BAR.

DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

# **DESIGNER NOTES:**

- (1) #3 SPIRAL AT 6" PITCH (ONE AND A HALF FLAT TURNS TOP AND BOTTOM).
- $\begin{tabular}{ll} \hline (2) & {\tt MIN} \ {\tt EXTENSION} \ {\tt INTO} \ {\tt SUPPORTED} \ {\tt ELEMENT} \ {\tt FOR} \\ & {\tt "V"} \ {\tt BARS} \ {\tt IS} \ {\tt 1'-0"} \\ \hline \end{tabular}$
- (3) 1'-3" FOR "V" BARS



COLVILCOPP

2825 WILCREST DRIVE, SUITE 100, HOUSTON, TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

RW	2	DATE.	JULY 2023	
DESIGNED BY: MV	DRAWN BY:	JOB NO.	0570-006-00	

HARLEM ROAD RECONSTRUCTION

AIR BRIDGE CONC SUPPORT (DRILLED SHAFT) DETAILS

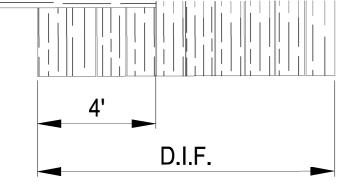
FILE NO:

DRAWING SCALE

HORZ: 1": 1'
VERT: N/A

SHEET
No: 250 OF 285

פונ פווסווססן מאוף (ווספבו) ווסניגם זוון בס בסבד מו בסודבמון בל סמוסון (מסכסונכת כל מפקיניום)

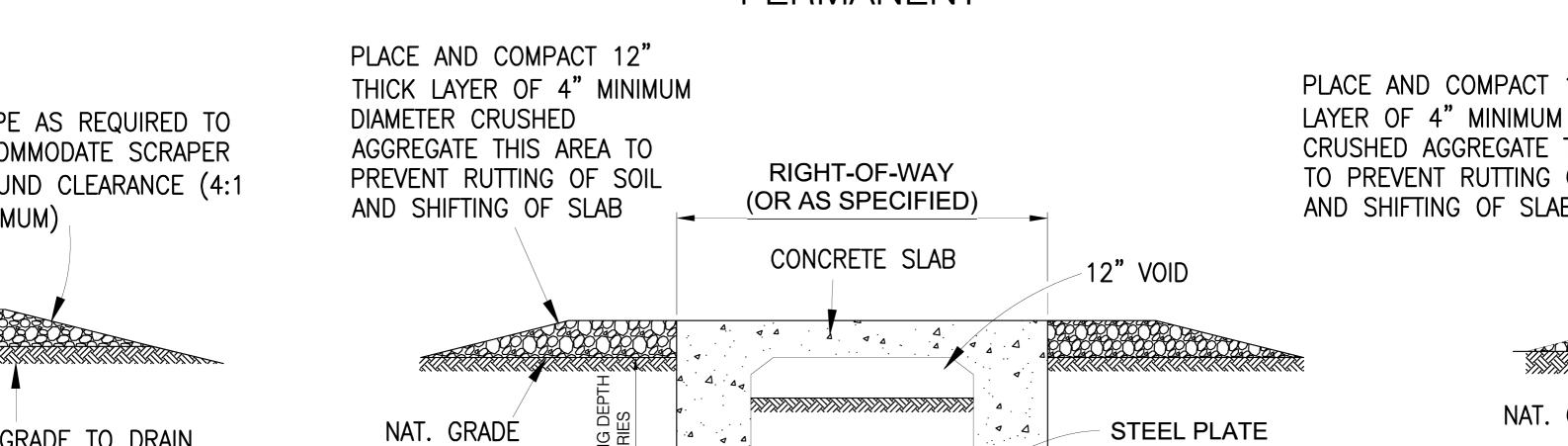


Ε

DEPTH (d) (FT)	SPAN (FT)
1 OR LESS	8
2	8
3	10
4	10
5 OR MORE	N/A

PROFESSIONAL ENGINEER.

# OPTION 3 PERMANENT



# **Certificate Of Completion**

Envelope Id: BF846051715C4D8DAB35A0B6D2D9EB91

Subject: Complete with Docusign: LONO Harlem Road\_NoObjectionLetter.pdf

Source Envelope:

Document Pages: 21 Envelope Originator: Signatures: 0 Certificate Pages: 1 Initials: 0 Korey LeMond

AutoNav: Enabled

Envelopeld Stamping: Enabled

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Status: Completed

5420 LBJ Freeway, Suite 1600

Dallas, TX 75240

Korey.LeMond@atmosenergy.com IP Address: 163.116.253.60

**Record Tracking** 

Status: Original Holder: Korey LeMond Location: DocuSign

8/21/2024 12:37:27 PM Korey.LeMond@atmosenergy.com

**Signer Events** Signature **Timestamp** 

In Person Signer Events Signature **Timestamp** 

**Editor Delivery Events Status Timestamp** 

**Agent Delivery Events** Status **Timestamp** 

**Intermediary Delivery Events Status Timestamp** 

**Certified Delivery Events Status Timestamp** 

Status **Carbon Copy Events Timestamp** 

Jose Ramirez joramirez@lja.com

Security Level: Email, Account Authentication

(None)

**Electronic Record and Signature Disclosure:** 

Not Offered via DocuSign

Sent: 8/21/2024 12:46:08 PM Viewed: 8/26/2024 10:07:58 AM

**Witness Events** Signature **Timestamp Notary Events** Signature Timestamp

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**Envelope Summary Events Status Timestamps Envelope Sent** Hashed/Encrypted 8/21/2024 12:46:08 PM Certified Delivered Security Checked 8/21/2024 12:46:08 PM Signing Complete Security Checked 8/21/2024 12:46:08 PM Completed Security Checked 8/21/2024 12:46:08 PM

**Payment Events** Status **Timestamps**