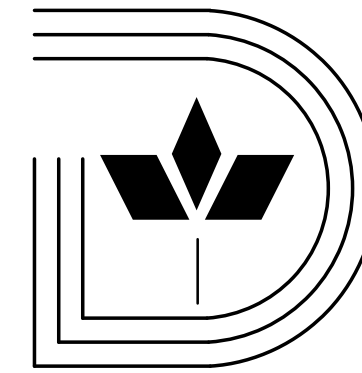


# WATER AND WASTEWATER MAIN REPLACEMENTS AT VARIOUS LOCATIONS



## Dallas Water Utilities City Of Dallas, Texas

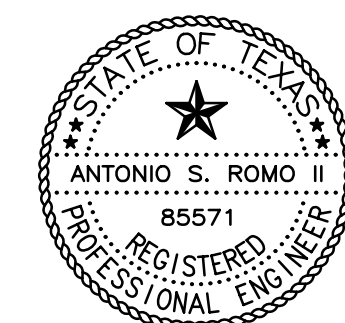
**Contract No. : 20 - 273/274  
September, 2020**

WATER & WASTEWATER SHEET INDEX GROUP 2

NO.	PID	LOCATION	DESIGN SHEET
1.	3230 5055	Waddy Ave from Hampton Rd East	411Q - 0692 Sh. 004
2.	3248	Palmer Dr from West Jefferson Blvd to Meredith Ave	411Q - 0926 Sh. 002-003
3.	3256	Alley between Brooklyndell Ave and Gibsondell Ave from Martindell Ave to Westmoreland Rd	411Q - 0318 Sh. 029-031
4.	3279	Alley between Burlingdell Ave and Gibsondell Ave from Martindell Ave to Westmoreland Rd	411Q - 0318 Sh. 032-034
5.	3287	Claredon Dr from Ravinia Dr West	411Q - 0956 Sh. 007-008
6.	3288	Easement West of Barnett Ave from Claredon Dr to Emmett St	411Q - 0956 Sh. 009-010
7.	3290	Emmett St from Westmoreland Rd to Barnett Ave	411Q - 0956 Sh. 011-012
8.	3340	Sunnyvale St from Mundy Cir South	411Q - 1207 Sh. 026-027
9.	3341	Mundy Cir from Sunnyvale St East	411Q - 1207 Sh. 028
10.	3352	Biglow Dr from Hudspeth Ave Northwest	411Q - 1082 Sh. 003-004
11.	3620	Arizona Ave from Woodin Blvd North and East to Alley E	411Q - 2011 Sh. 067
12.	4236	Alley West of Hampton Rd from Kingston St North	411Q - 1025 Sh. 035
13.	4777	Alley between Westmount Ave and Cliffdale Ave from Avon St South	411Q - 0476 Sh. 019-021
14.	5997	Canyon St from East and West of Corinth St	411Q - 0373 Sh. 085-088
15.	6502	Easement West of University Hills Blvd From North of Camp Wisdom Rd South	411Q - 1722A Sh. 020-031



N.T.S.



Tomy Romo II P.E.  
9/11/2020



Binkley & Barfield, Inc. | TxEng No. F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

411Q - 0692 Sh.002

# GENERAL LEGENDS

# GENERAL NOTES

## GENERAL

	Benchmark
	Control Point
	Iron Pin Found
	Iron Pin Set
	Exist. ROW
	Prop. ROW
	ROW Centerline
	Alley ROW
	Exist. Easement
	Prop. Easement
	Corporation Line Marker
	Exist. Structure/Building
	Prop. Structure/Building
	Bank/Slope Line
	Flow Line/Stream Line
	Bore Hole

## TOPOGRAPHIC FEATURES

	Tree
	Brush, Shrub, Wood
	Swamp
	Mail Box
	Bollards
	Irrigation Control Valve
	Chain Link/Other Fence
	Wood Fence
	Wrought Iron Fence
	Brick Wall
	Concrete Wall
	Retaining Wall

## PAVEMENT

	Exist. Gravel
	Exist. Asphalt
	Exist. Brick
	Exist. Concrete
	Prop. Pavement

## STORM DRAINS

	Exist. Storm Drain
	Exist. Storm Manhole
	Exist. Storm Inlet
	Prop. Storm Drain
	Prop. Storm Manhole
	Prop. Storm Inlet

## UTILITIES

	Exist. Gas Line
	Exist. Gas Manhole
	Exist. Underground Electric Line
	Exist. Overhead Electric Line
	Exist. Electric Pad Mounted Transformer
	Exist. Electric Power Pole
	Exist. Electric Pole Anchor
	Exist. Electric Utility Manhole
	Exist. Electric Vault
	Exist. Telephone Line
	Exist. Telephone Utility Manhole
	Exist. Telephone Pedestal
	Exist. Fiber Optic Line
	Exist. Fiber Optic Manhole
	Exist. Cable TV Line
	Exist. Cable TV Manhole

## WATER MAINS & APPURTENANCES

	Exist. 6" Water Main
	Exist. 8" to 27" Water Main
	Exist. 30" or Larger Water Main
	Prop. 6" Water Main
	Prop. 8" to 27" Water Main
	Prop. 30" or Larger Water Main
	Future Water Main

	Exist. Water Meter
	Exist. Water Manhole
	Exist. Water Vault
	Exist. Fire Hydrant
	Prop. Water Manhole
	Prop. Water Vault
	Prop. Fire Hydrant
	Exist. 11.25" Fitting
	Exist. 22.5" Fitting
	Exist. 45" Fitting
	Exist. 90" Fitting
	Exist. Reducer

	Exist. Tee
	Exist. Tapping Sleeve
	Exist. Cross
	Exist. Plug
	Exist. Blind Flange
	Cut & Plug
	Prop. 11.25" Fitting
	Prop. 22.5" Fitting
	Prop. 45" Fitting
	Prop. 90" Fitting
	Prop. Reducer
	Prop. Tee
	Prop. Tapping Sleeve
	Prop. Plug
	Prop. Blind Flange
	Exist. Gate Valve
	Exist. High/Low Valve
	Exist. Check Valve
	Exist. Flush Point
	Exist. Air Valve
	Exist. Cathodic Test Station
	Prop. Gate Valve
	Prop. High/Low Valve
	Prop. Check Valve
	Prop. Flush Point
	Prop. Air Valve
	Prop. Cathodic Test Station

## WASTEWATER MAINS & APPURTENANCES

	Exist. 6" to 27" Wastewater Main
	Exist. 30" or Larger Wastewater Main
	Prop. 6" to 27" or Larger Wastewater Main
	Prop. 30" or Larger Wastewater Main

	Exist. Wastewater Manhole
	Exist. Wastewater Access Device
	Exist. Wastewater Cleanout
	Prop. Wastewater Manhole
	Prop. Wastewater Access Device
	Prop. Wastewater Cleanout
	Remove & Replace Exist. Manhole

## GENERAL

- All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications for Public Works Construction (Fourth Edition, 2004) and City of Dallas Addendum (October, 2011) to these specifications.
- Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction Latest Edition (October, 2017).
- All items of work required to complete the work as shown or implied by the plans and as specified in the contract documents which are not listed as a pay item in the proposal shall be considered subsidiary.
- The location, elevations and dimensions of existing utilities shown on the plans as obtained from The City of Dallas and utility company records, are considered approximate. The Engineer does not certify that all utilities are shown. The Contractor shall verify exact locations, sizes and depths of existing utilities before beginning construction (including ordering pre-cast manholes and concrete pipe if applicable). NO SEPARATE PAY ITEM.
- The Contractor shall contact Texas Excavation Safety System (800-DIG-TESS; 800-344-8377) and relevant utility companies 48 hours prior to locating existing utilities and/or construction activities.
- The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense to its original or better condition.
- The Contractor shall support telephone conduits, storm drains, water and wastewater mains when going under said utilities. NO SEPARATE PAY ITEM.
- Power poles may have to be braced at the Contractor's expense.
- No machinery, construction access or storage shall be allowed on park property beyond the limits of the temporary workspace as defined by the City of Dallas Inspector.
- Some drawings may contain survey that are +/- two (2) years of age and may have undergone modifications. Contractor shall be aware that some features within the project area may differ from the contract documents including but not limited to the new utilities, sidewalks, property name or ownership and landscaping. Contractor shall coordinate with Dig TESS and other utility companies at no additional cost to owner and notify DWU of any conflicts during construction.
- This project is subject to the American Iron and Steel Act requirements of Section 608 of the Federal Water Pollution Control Act, including federal appropriation acts. All iron and steel products for construction, alteration, maintenance, or repairs incorporated in these plans must be produced in the United States.
- Pipeline crossings of all potential waters of the U.S. will be performed using trenchless technology or by open trench. All open trenching work shall be done in compliance with Nationwide Permit 12 - Utility Line Activities. If project activities within potential waters of the U.S. does not qualify under a nationwide permit, then the appropriate permit from the U.S. Army Corps of Engineers would be required prior to clearing or any other construction activities.
- Prior to commencement of construction activities within any 100-year floodplain, a floodplain permit or exemption must be obtained from the local Floodplain Administrator of the National Flood Insurance Programs.
- The project also must comply with the following conditions:
  - Standard emergency condition for the discovery of cultural resources.
  - Standard emergency condition for the discovery of threatened and endangered species.

## TRAFFIC CONTROL

- The Contractor shall provide for the diversion of pedestrians and vehicles during the construction in a manner satisfactory to the on-site City of Dallas Inspector and in accordance with the City of Dallas Traffic Barricade Manual, latest edition. NO SEPARATE PAY ITEM.
- The Contractor shall develop a traffic control plan in accordance with the City of Dallas Traffic Barricade Manual, Latest Edition and the TxDOT Texas Manual On Uniform Traffic Control Devices (TMUTCD), Latest Version as necessary. NO SEPARATE PAY ITEM.
- The Contractor shall maintain access to private driveways at all times during construction. NO SEPARATE PAY ITEM.
- The Contractor shall replace any pavement markings and signs that are removed or damaged during construction. NO SEPARATE PAY ITEM.
- The Contractor shall coordinate all traffic variances with Traffic Safety Coordinators at 214-670-5896 or mobile 214-683-5189, City of Dallas Public Works & Transportation.
- Two-way traffic shall be maintained at all times and flagmen should be used to maintain two-way traffic as necessary.
- All barricades, warning signs and traffic control devices shall conform to the City of Dallas standards. NO SEPARATE PAY ITEM.
- When closing side streets, two working days notification is required for Fire, Police, Streets and Sanitation Departments. Please contact Gary Maxwell at 670-5896 or mobile 683-5189 to notify traffic restrictions.
- Vehicular ingress and egress (entrance and exit) to a business property shall be maintained at all times. In instances where this is not possible, specific signs along with business name and direction arrow(s) shall be used for any temporary access locations. Additional signs may be necessary if there is a detour. NO SEPARATE PAY ITEM.
- Construction ditches in the traffic lanes are to be barricaded, backfilled or plated at the end of each work day.

## TREES AND LANDSCAPING

- Contractor shall not damage or remove any trees or landscaping unless otherwise authorized by the City of Dallas Inspector. Any trees or landscaping that are damaged or removed during the construction shall be replaced by the contractor at his expense.

## ADVANCED METERING INFRASTRUCTURE

- Caution Advanced Metering Infrastructure (AMI) Meters might be present in the area. Contractor shall not remove, damage, or otherwise disturb AMI meter endpoint components unless otherwise directed by the DWU Meter Reading Operation (MRO) Technician.
- If any AMI Components need to be disconnected, reconnected, removed, or installed, the Contractor shall contact MRO five (5) working days prior to commencing work at 214-670-5537 and Email: DWUMRO@dallascityhall.com.
- Contractor shall install AMI meter lids for water meters 2" and smaller in all existing AMI and Proposed AMI's. Contractor shall also return the existing AMI lids from existing AMI's to DWU MRO for meters 2" or smaller. NO SEPARATE PAY ITEM.
- For meters 3" or larger, the contractor shall either connect to the existing meter vault or construct a new meter vault as specified on the plans.
- Contractor shall be liable for the replacement cost of any lost or damaged AMI Components.
- All Meters in the Proposed and Existing AMI area shall be AMI-Ready as furnished by DWU. A non-AMI-Ready meter shall be replaced with an AMI-Ready meter by DWU.

## WATER MAIN AND APPURTENANCES

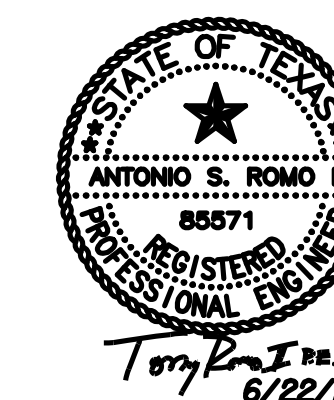
- All 4", 6", 8" and 12" water mains shall be PVC C900 (DR-14) water pipe, with Class "C" embedment, except as noted.
- All R.C.C.P. water mains shall be installed with bonded joints. All DI pipe and fittings shall be polywrapped. All flanged connections shall be insulated as per DWU Standard Drawing 223.
- All water mains with no profiles shall have a minimum cover of four (4) feet below street grade in an improved street and five (5) feet of cover in an unimproved street or alley.
- Compact fittings are not authorized for this project. All ductile iron pipe, fittings and fire hydrant bases shall be poly-wrapped.
- All bends, tees, fire hydrants and plugs are to be restrained type fittings and to be blocked with Class "B" Concrete as per DWU Standard Drawings \*229-234, in addition to restrained joints.
- The existing water line is to be used as a service line until the proposed main has been tested, approved and placed in service.
- If required by the City of Dallas Inspector, the Contractor shall install temporary water lines on both sides of the street until the new water main has been completed, tested, approved, and accepted by DWU. NO SEPARATE PAY ITEM.
- If no temporary mains are required by the City of Dallas Inspector, then the existing water mains are to be in service with the fire hydrants until the new water main has been tested, approved and accepted by DWU. NO SEPARATE PAY ITEM.
- The Contractor will ensure that fire hydrants are accessible to fire trucks at all times. NO SEPARATE PAY ITEM.
- The Contractor shall sequence his construction such that no more than one fire hydrant is out of service at any given time.
- All fire hydrants shall be installed as per DWU Standard Drawing \*224. Existing fire hydrants on killed water lines are to be removed and delivered to DWU Distribution Division at 4120 Scottsdale Street Dallas, Texas if required by the City of Dallas Project Inspector, otherwise they become the property of the Contractor.
- Fire hydrant leads and barrels shall be set to grade established for the proposed paving. If the hydrant is not accessible because of existing ground conditions, the hydrant shall be raised with extension(s) as directed by the owner.
- Backfill used on point repairs to existing water mains may have been made with crushed rock. This could present a danger to a new ditch. Precautions should, therefore, be taken by the Contractor. NO SEPARATE PAY ITEM.
- Abandon all water valves on existing mains being taken out of service as per DWU Standard Drawing \*219. NO SEPARATE PAY ITEM.
- The Contractor shall coordinate all water main tie-ins, pressure tests and disinfection with the City of Dallas Inspector.
- The Contractor shall verify the location and number of all existing active water services and construct new services up to the meter prior to taking the existing main out of service.
- All water services are to be replaced from the proposed water main to the meter. This includes crossing all existing and proposed utilities and pavement. Relocate and reset all the water meter(s) as required and reconnect to existing services. Install water deadends on unimproved lots.
- Water services greater than 30 feet shall be a minimum of one (1) inch in diameter.

## WASTEWATER MAIN AND APPURTENANCES

- The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- Abandon all manholes on abandoned wastewater mains as per specifications.
- The Contractor shall verify the location of all wastewater laterals and construct new laterals from the wastewater main to the property line with cleanouts and reconnect to the existing laterals. Dye testing may be required at no additional cost to the owner.
- The backfill around manholes located in existing or new pavement shall be flowable backfill as per NCTCOG Specification Item 6.2.10(G). NO SEPARATE PAY ITEM.
- Prior to reconnection of wastewater laterals, the Contractor shall verify whether the existing lateral is active or inactive. The contractor is required, as minimum, to include TV survey & perform dye testing. All laterals determined to be inactive shall not be reconnected. The DWU Construction Superintendent shall approve all laterals targeted for reconnection. NO SEPARATE PAY ITEM.
- Excavation located in existing or new pavement shall be backfilled using flowable backfill as per City of Dallas Addendum (Oct. 2011) Specification Item 502.6.COD.1 NO SEPARATE PAY ITEM.
- Removal of existing MH's, Wastewater Access Devices & Cleanouts is considered incidental unless noted otherwise.
- Construct wastewater lateral cleanouts at property line.

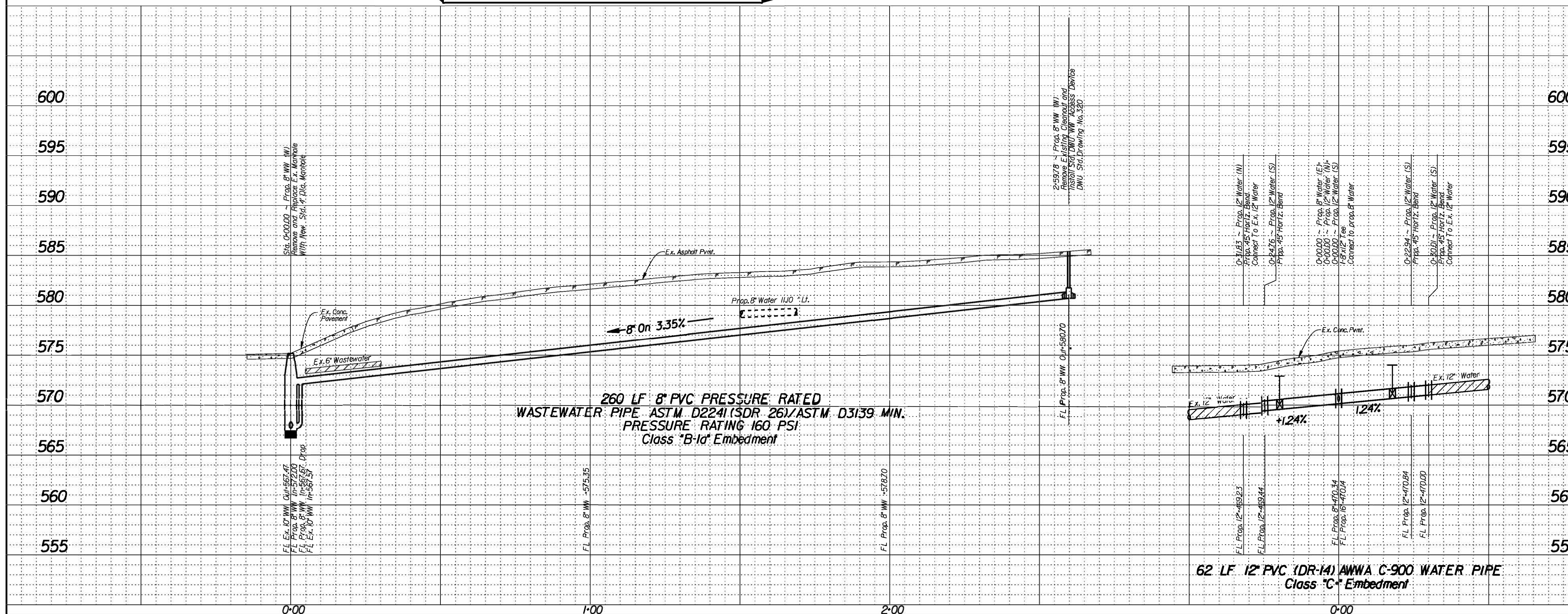
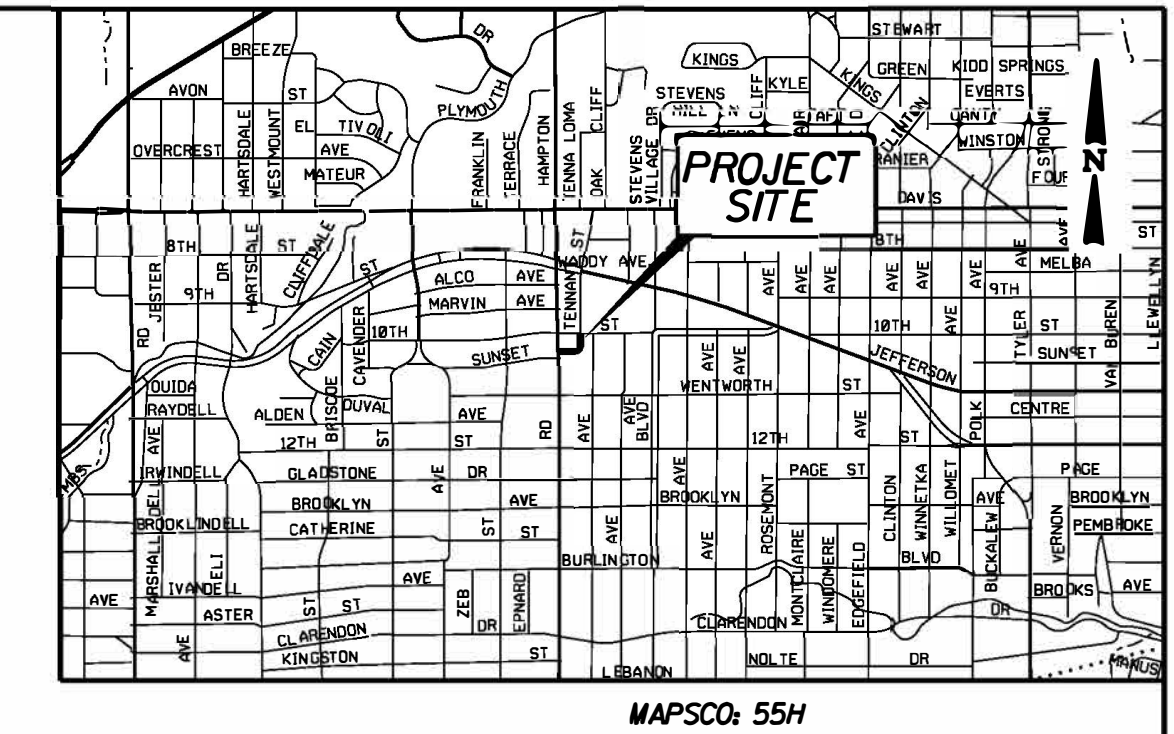
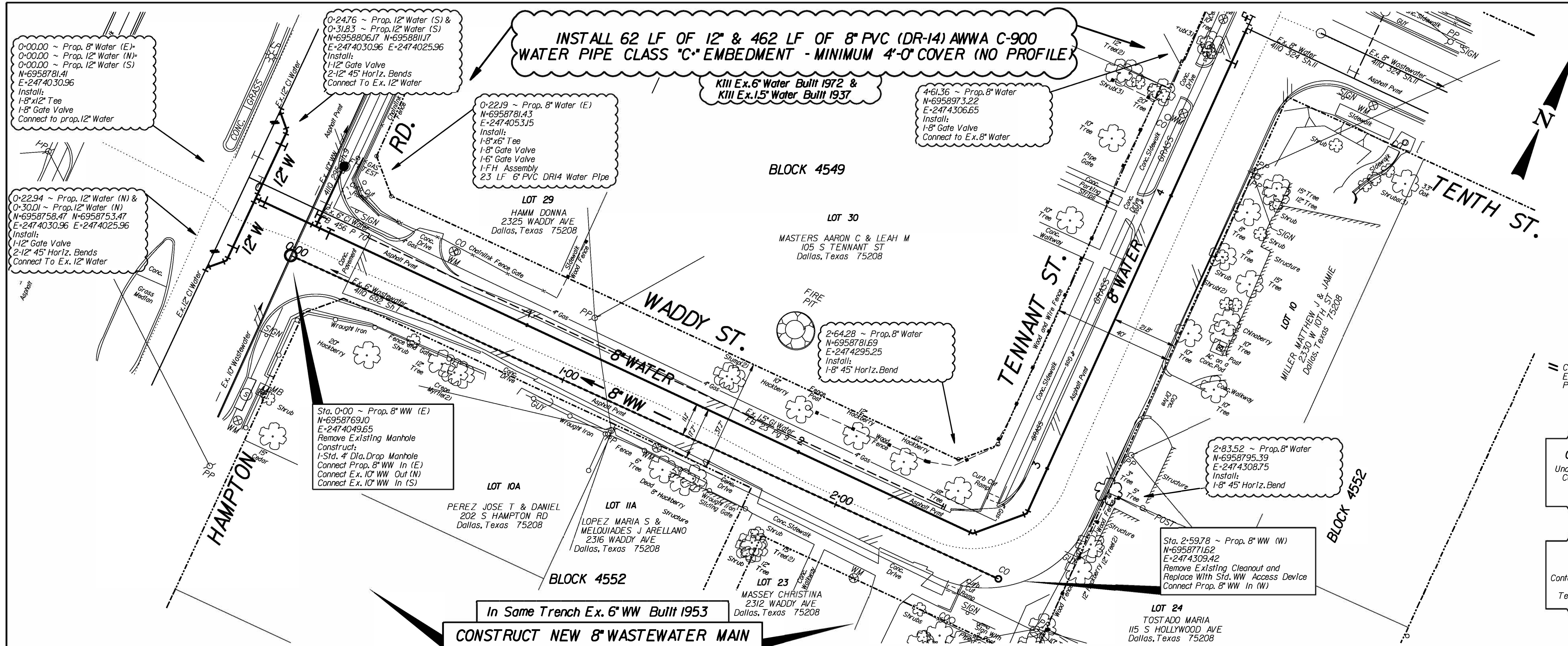
## PAVEMENT REPLACEMENT

- All work pertaining to sawcut, replacement and removal of pavement, sidewalks, curbs and gutters shall conform to City of Dallas Public Works & Transportation, Pavement Cuts & Repair Standards Manual, Latest Edition.
- All disturbed pavement markings including, but not limited to, striping, traffic buttons and crosswalks shall be restored to the same or improved condition as per City of Dallas Specifications for Public Works Construction, Standard Construction Details and all addenda thereto. NO SEPARATE PAY ITEM.



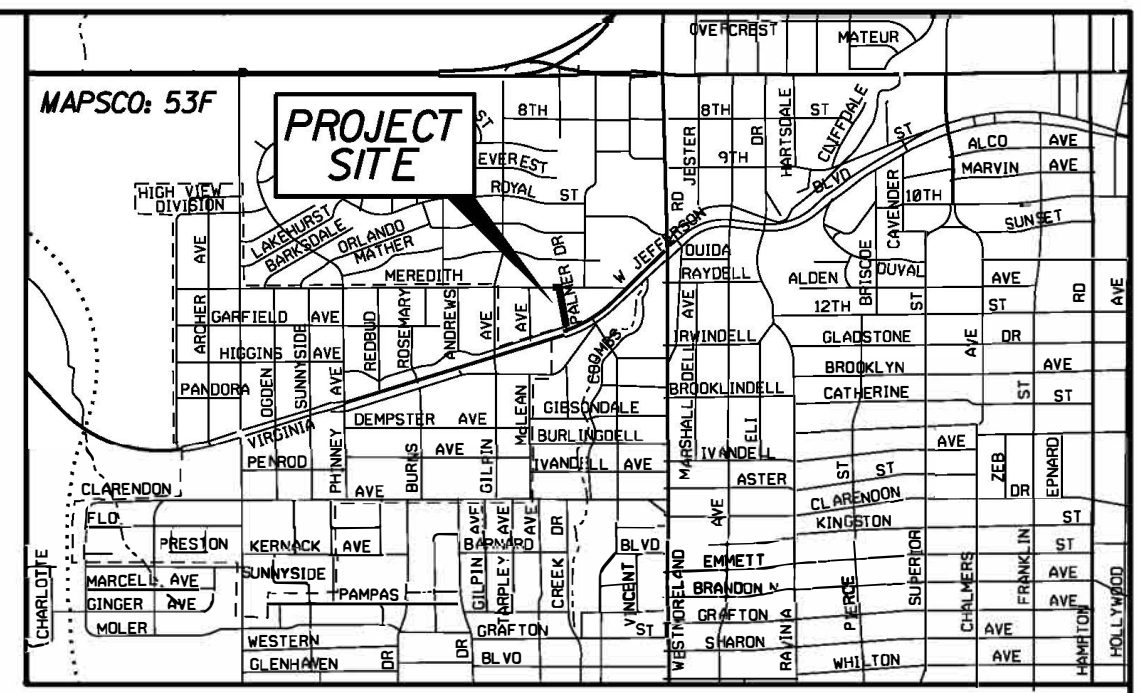
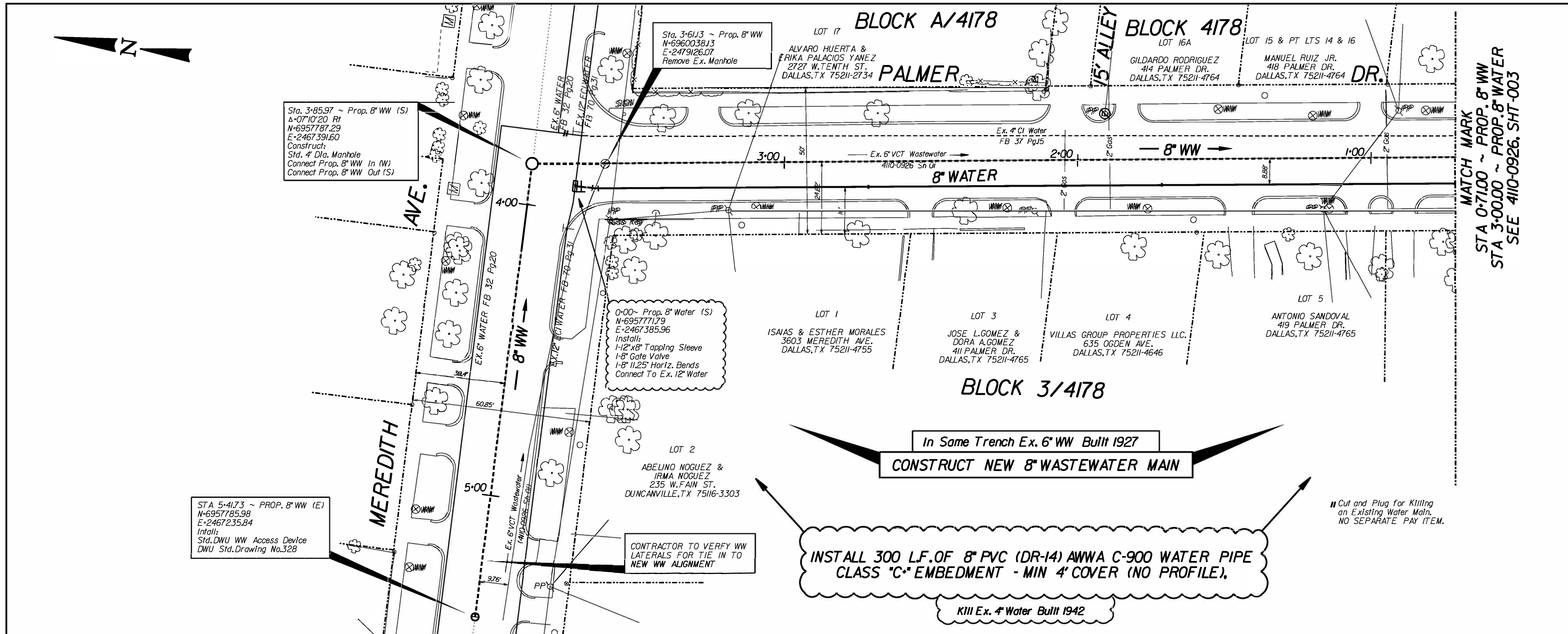
Binkley & Barfield, Inc.   TBPE No. F-257 1801 Gateway Blvd, Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com					
CONTRACT NO. 20-273/274					
<h3>GENERAL NOTES</h3> <h4>DALLAS WATER UTILITIES</h4> <h4>CITY OF DALLAS, TEXAS</h4>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	411Q	0692	003





REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
BENCHMARKS & CONTROL POINTS				
Point	Northing	Easting	Elev.	Description
CP-101	6957744.84	2473674.14	578.25	*X SO CUT
CP-102	6958054.19	2473671.03	570.78	*X CUT
CP-103	6958046.40	2474069.04	591.17	*X SO CUT
CP-104	6958051.00	2474470.87	577.17	*X CUT
BENCHMARK				
A SQUARE CUT ON TOP OF A CONCRETE CURB AT THE NOSE OF A MEDIAN IN THE CENTERLINE OF HAMPTON ROAD ON THE NORTH SIDE OF ALCO AVENUE.				
ELEVATION - 560.43				
BENCHMARK				
A STANDARD WATER DEPARTMENT BENCH MARK IS SET AT THE END OF A CONCRETE ISLAND IN THE CENTERLINE OF HAMPTON RD. AND THE SOUTH SIDE SUNSET AVE.				
ELEVATION - 579.40				
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER 44-19W				
WASTEWATER 44-19S				
<b>CONTRACT NO. 20-273/274</b> <b>PID: 3230 &amp; 5055</b>				
<b>WATER &amp; WASTEWATER MAINS</b> <b>WADDY AVENUE &amp; TENNANT STREET</b> <b>FROM HAMPTON RD. TO TENNANT ST.</b> <b>DALLAS WATER UTILITIES</b> <b>CITY OF DALLAS, TEXAS</b>				
DESIGN	DRAWN	DATE	FILE	NUMBER SHEET
2M	2M	June 2020	411Q	0692 004





MATCH MARK  
 STA 0+7100 ~ PROP. 8\"/>

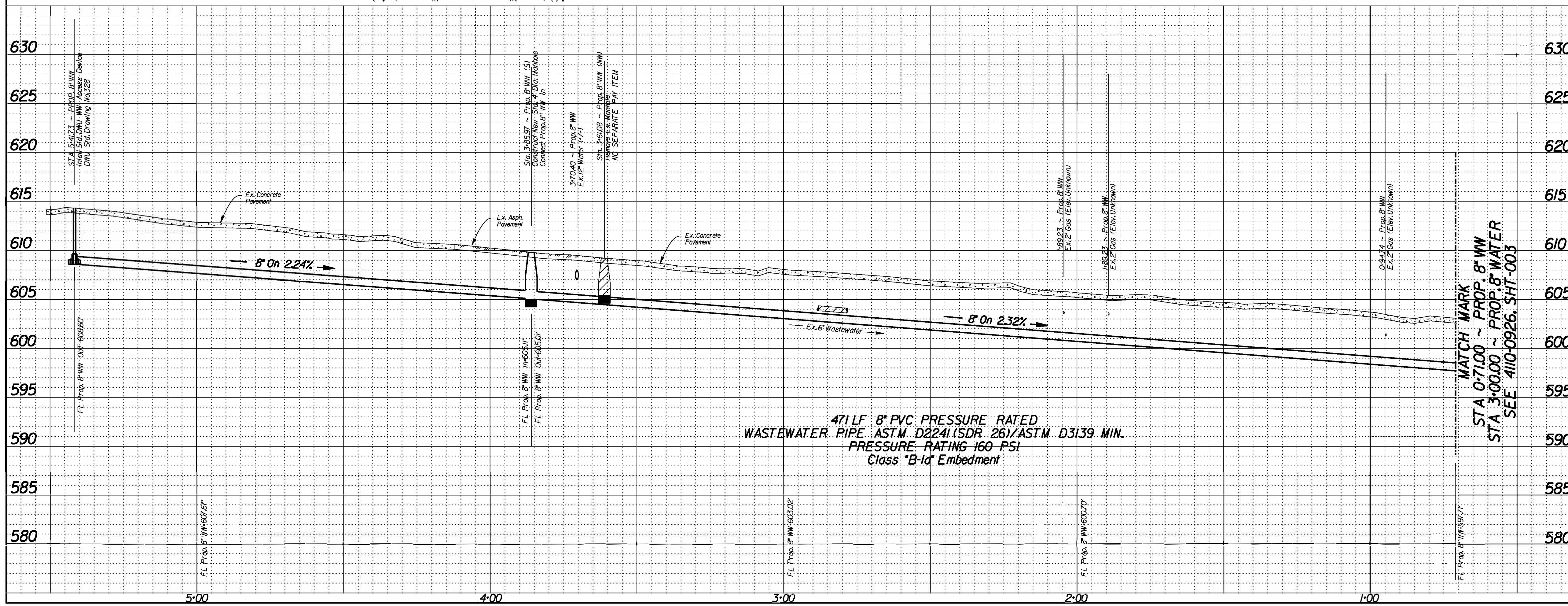
**CAUTION ~ FIBER OPTIC !**  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ TELEPHONE !**  
 Underground Telephone Cables In Area  
 Contact AT&T Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
 Underground Electrical Cables In Area  
 Contact TXU Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact AT&M Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377/1-800-545-6005

**INSTALL 300 LF. OF 8\"/>**



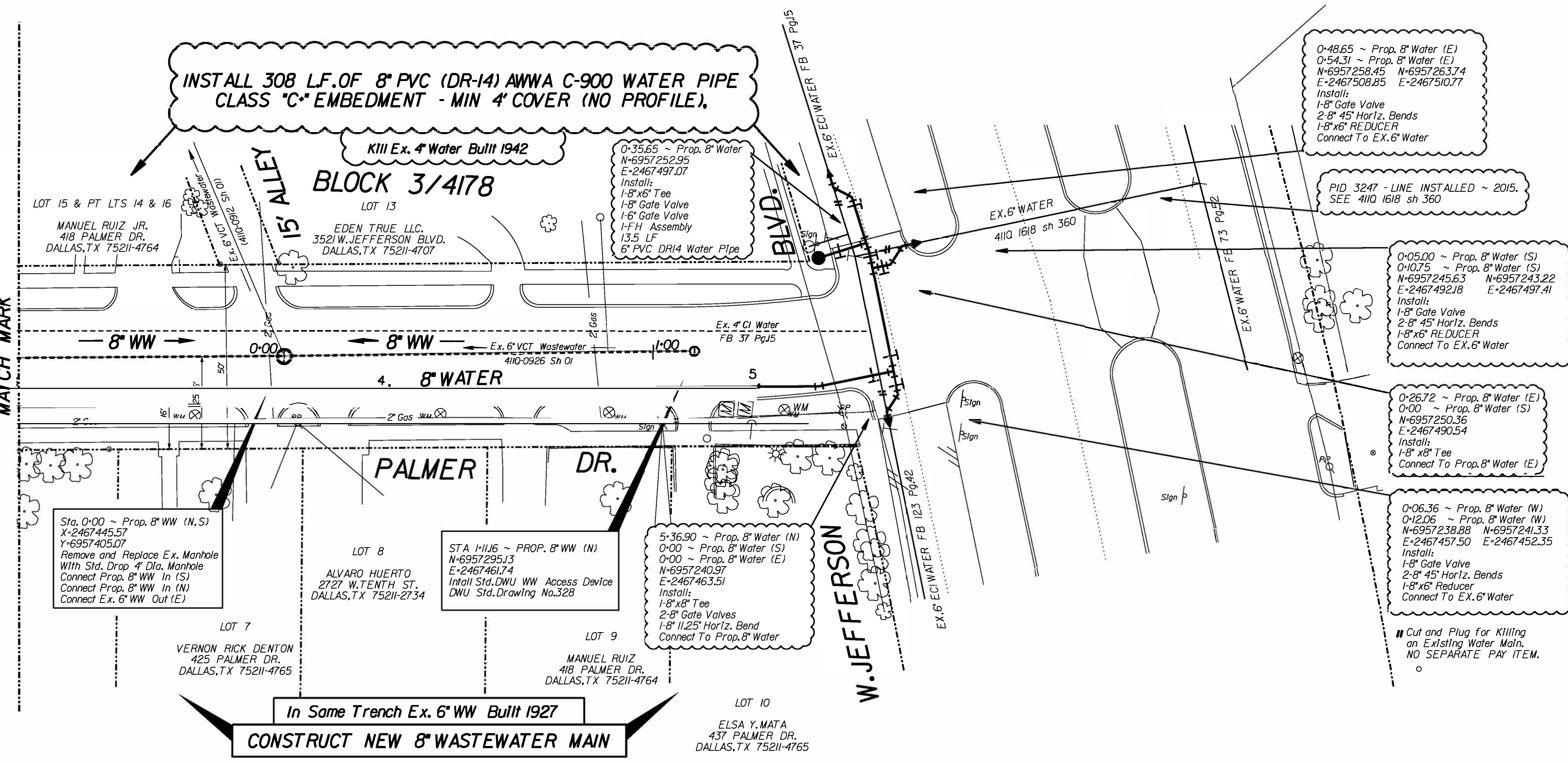
MATCH MARK  
 STA 0+7100 ~ PROP. 8\"/>

REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
<b>BENCHMARKS &amp; CONTROL POINTS</b>					
Point	Northing	Easting	Elev.	Description	
CP-1	6956850.98	2467043.75	610.51'	"X" SOLICUT	
CP-2	6956888.58	2467155.79	591.26'	"X" SOLICUT	
CP-3	6956849.64	2466667.876	617.82'	"X" SOLICUT	
<b>BENCHMARK</b>					
A square is cut on top of a concrete curb at the center of a storm sewer drop inlet at the southeast corner of the intersection Coombs Creek Dr. and Vandell Ave. ELEVATION = 590.38'					
<b>BENCHMARK</b>					
A square is cut on top of a concrete curb at the midpoint at the southeast corner of the intersection of Vandell Ave. and MartIndell Ave. ELEVATION = 608.55'					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
<b>REFERENCES</b>					
WATER 45-17W					
WASTEWATER 45-17S					
 2M ASSOCIATES, LLC <small>2000 Preston View Blvd., Suite A          Dallas, TX 75201          Tel: 972-941-2000 Fax: 972-941-2001          www.2massociates.com</small>		 BERNARD E. BRANDON <small>01949          REGISTERED PROFESSIONAL ENGINEER</small> 6/19/2020			
CONTRACT NO. 20-273/274		PID 3248			
<b>WATER &amp; WASTEWATER MAINS</b>					
<b>PALMER DR.</b>					
<b>MEREDITH AVE. TO W. JEFFERSON BLVD.</b>					
<b>DALLAS WATER UTILITIES</b>					
<b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	0926	002





SEE 4110-0926, SHT-002  
STA 0+71.00 ~ PROP. 8" WW  
STA 3+00.00 ~ PROP. 8" WATER  
MATCH MARK



INSTALL 308 LF OF 8" PVC (DR-14) AWWA C-900 WATER PIPE CLASS "C" EMBEDMENT - MIN 4" COVER (NO PROFILE).

Kill Ex. 4" Water Built 1942  
BLOCK 3/4178

LOT 15 & PT LOTS 14 & 16  
MANUEL RUIZ JR.  
418 PALMER DR.  
DALLAS, TX 75211-4764

LOT 13  
EDEN TRUE LLC  
3521 W. JEFFERSON BLVD.  
DALLAS, TX 75211-4707

LOT 8  
ALVARO HUERTO  
2727 W. TENTH ST.  
DALLAS, TX 75211-2734

LOT 7  
VERNON RICK DENTON  
425 PALMER DR.  
DALLAS, TX 75211-4765

LOT 9  
MANUEL RUIZ  
418 PALMER DR.  
DALLAS, TX 75211-4764

LOT 10  
ELSA Y. MATA  
437 PALMER DR.  
DALLAS, TX 75211-4765

In Same Trench Ex. 6" WW Built 1927  
CONSTRUCT NEW 8" WASTEWATER MAIN

0+48.65 ~ Prop. 8" Water (E)  
0+54.31 ~ Prop. 8" Water (E)  
N-6957258.45 N-6957263.74  
E-2467508.85 E-2467510.77  
Install:  
1-8" Gate Valve  
2-8" 45' Horiz. Bends  
1-8" x 6" REDUCER  
Connect To Ex. 6" Water

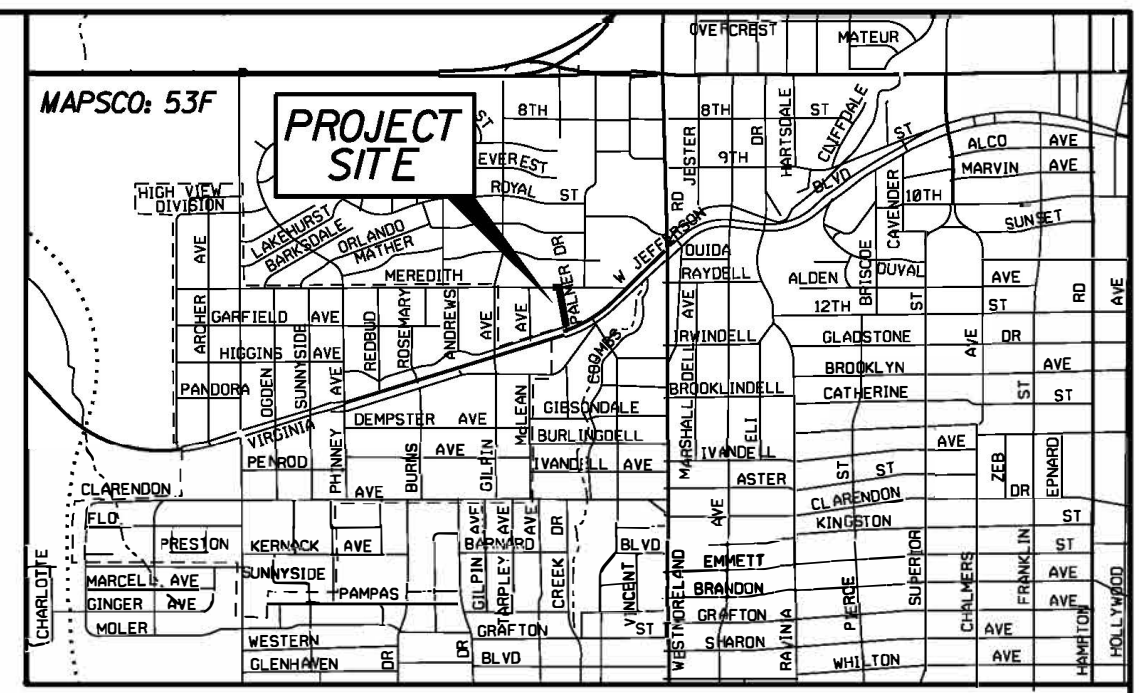
PID 3247 - LINE INSTALLED ~ 2015.  
SEE 4110 1618 sh 360

0+05.00 ~ Prop. 8" Water (S)  
0+10.75 ~ Prop. 8" Water (S)  
N-6957245.63 N-6957243.22  
E-2467492.8 E-2467497.41  
Install:  
1-8" Gate Valve  
2-8" 45' Horiz. Bends  
1-8" x 6" REDUCER  
Connect To Ex. 6" Water

0+26.72 ~ Prop. 8" Water (E)  
0+00 ~ Prop. 8" Water (S)  
N-6957250.36 N-6957241.33  
E-2467490.54 E-2467452.35  
Install:  
1-8" x 8" Tee  
Connect To Prop. 8" Water (E)

0+06.36 ~ Prop. 8" Water (W)  
0+12.06 ~ Prop. 8" Water (W)  
N-6957238.88 N-6957241.33  
E-2467457.50 E-2467452.35  
Install:  
1-8" Gate Valve  
2-8" 45' Horiz. Bends  
1-8" x 6" Reducer  
Connect To Ex. 6" Water

■ Cut and Plug for Killing  
an Existing Water Main.  
NO SEPARATE PAY ITEM.

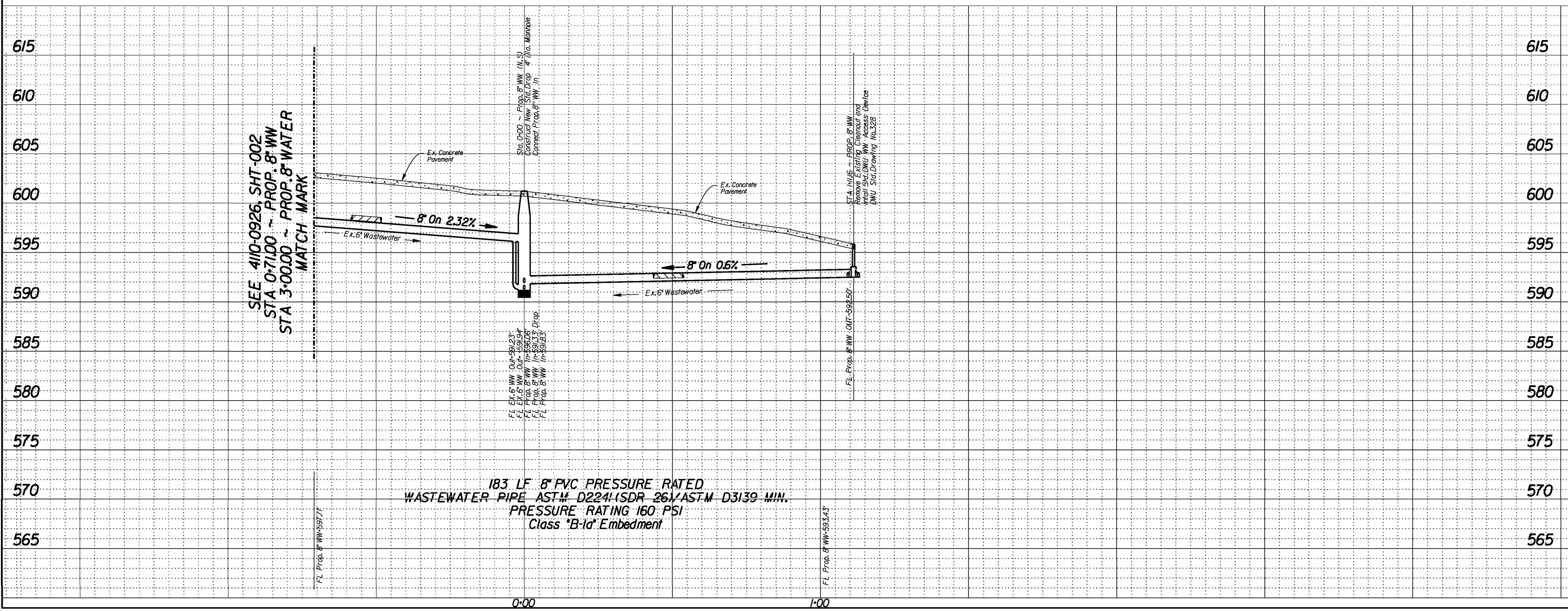


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Tele: 1-800-344-8377

**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
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Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
Underground Electrical Cables In Area  
Contact TXU Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact AT&T Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-549-6005

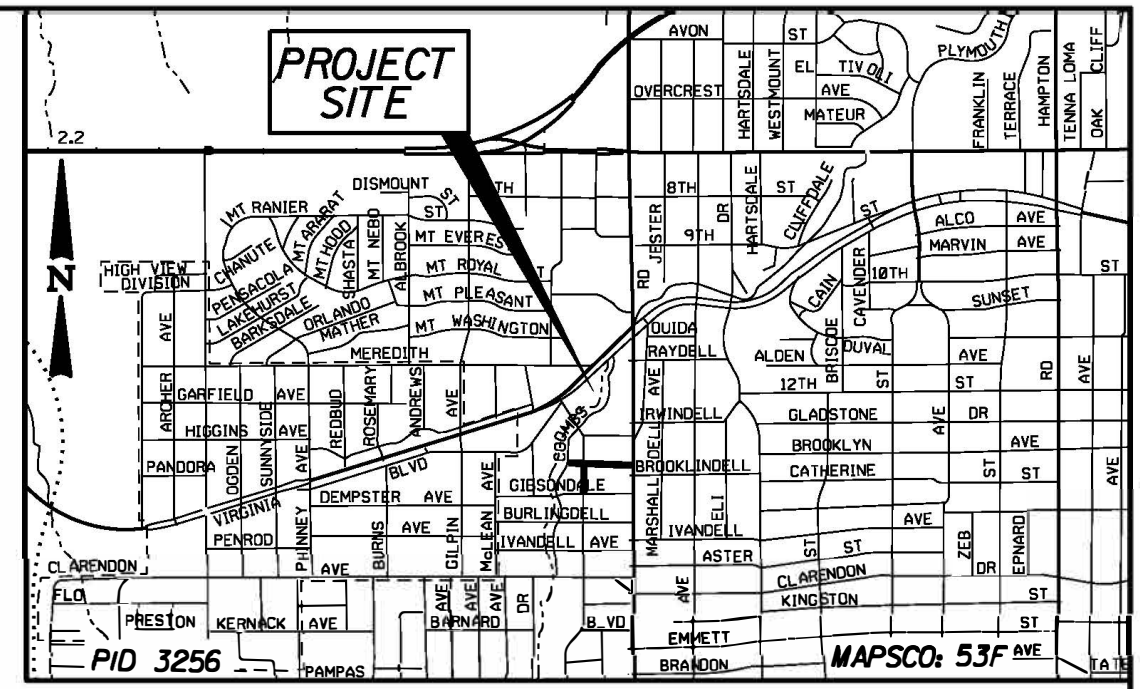
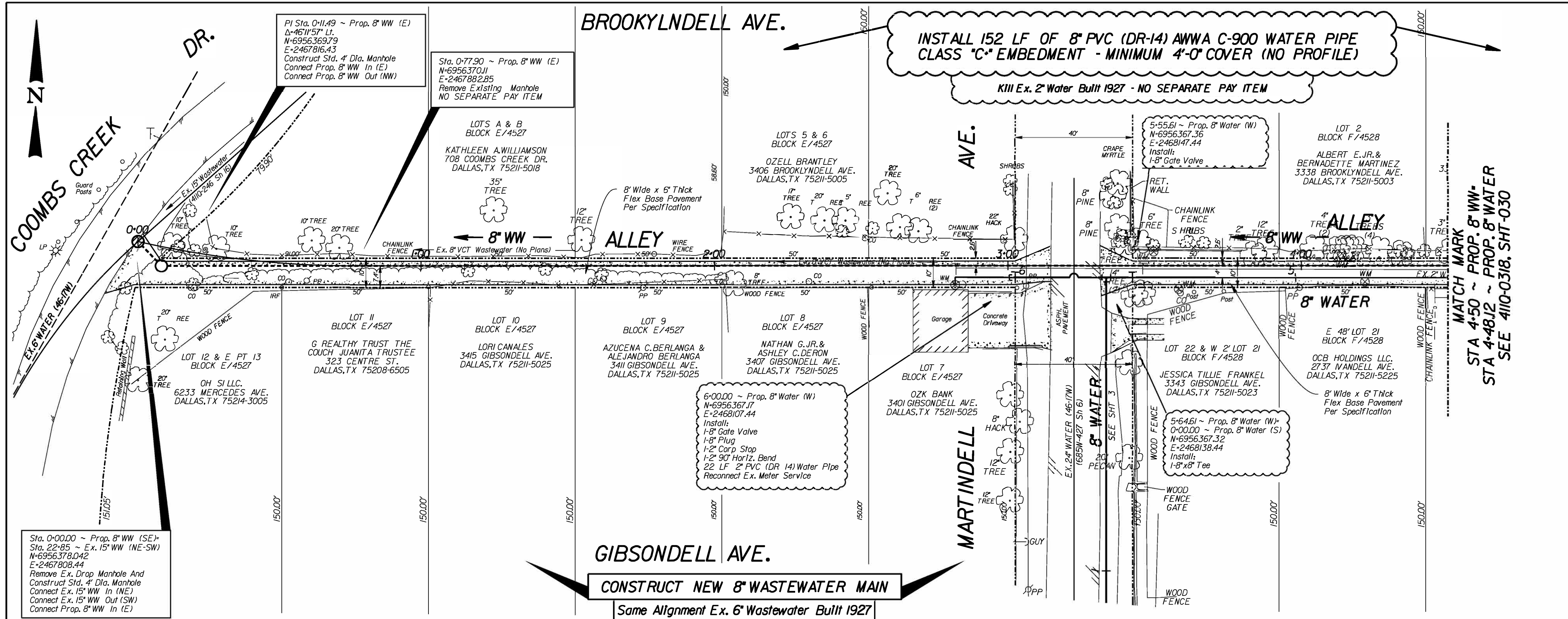


SEE 4110-0926, SHT-002  
STA 0+71.00 ~ PROP. 8" WW  
STA 3+00.00 ~ PROP. 8" WATER  
MATCH MARK

183 LF 8" PVC PRESSURE RATED  
WASTEWATER PIPE ASTM D2241/SDR 261/ASTM D3139 MIN.  
PRESSURE RATING 160 PSI  
Class "B-1d" Embedment

REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Point	Northing	Easting	Elev.	Description	
CP-1	6956850.98	2467043.75	610.51'	"X" SO.CUT	
CP-2	6956888.58	2467155.79	591.26'	"X" SO.CUT	
CP-3	6956849.64	2466678.76	617.82'	"X" SO.CUT	
BENCHMARK					
A square is cut on top of a concrete curb at the center of a storm sewer drop inlet at the southeast corner of the intersection Coombs Creek Dr. and Vandell Ave. ELEVATION = 590.38'					
BENCHMARK					
A square is cut on top of a concrete curb at the midpoint of the southeast corner of the intersection of Vandell Ave. and MartIndell Ave. ELEVATION = 608.55'					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 45-17W					
WASTEWATER 45-17S					
 2M ASSOCIATES, LLC 1801 Preston Road, Suite A Dallas, TX 75201 Tel: 972.641.2600 Fax: 972.641.2601		 Bernard E. Brandon 101949 REGISTERED PROFESSIONAL ENGINEER 6/19/2020			
CONTRACT NO. 20-273/274		PID 3248			
WATER & WASTEWATER MAINS					
PALMER DR. MEREDITH AVE. TO W. JEFFERSON BLVD.					
DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	0926	003



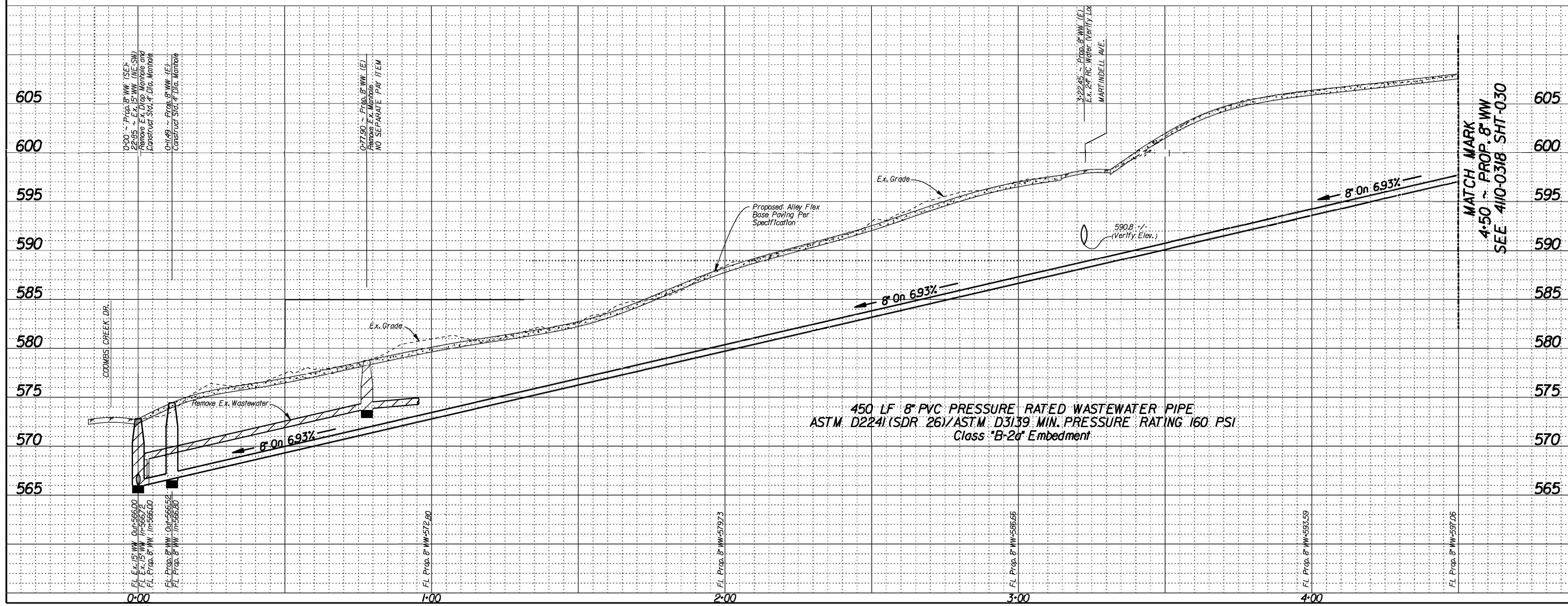


**CAUTION ~ FIBER OPTIC !**  
 Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

**CAUTION ~ TELEPHONE !**  
 Underground Telephone Cables In Area Contact AT & T Two Working Days Prior To Construction. Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
 Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
 Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377/1-800-549-6005



REV. NO.	DATE	DESCRIPTION	BY

Point	Northing	Easting	Elev.	Description
CP-101	6954698.29	2467410.51	587.74	IR Set
CP-102	6954700.95	2467797.21	611.05	CP Nail
CP-104	6955062.59	2468358.99	623.96	IR Set
CP-105	6955420.34	2468360.11	613.06	*X CUT

Horizontal Scale:	Vertical Scale:
1" = 20'	1" = 6'

REFERENCES
WATER 45-17W & 45-17W
WASTEWATER 45-17S & 45-17S

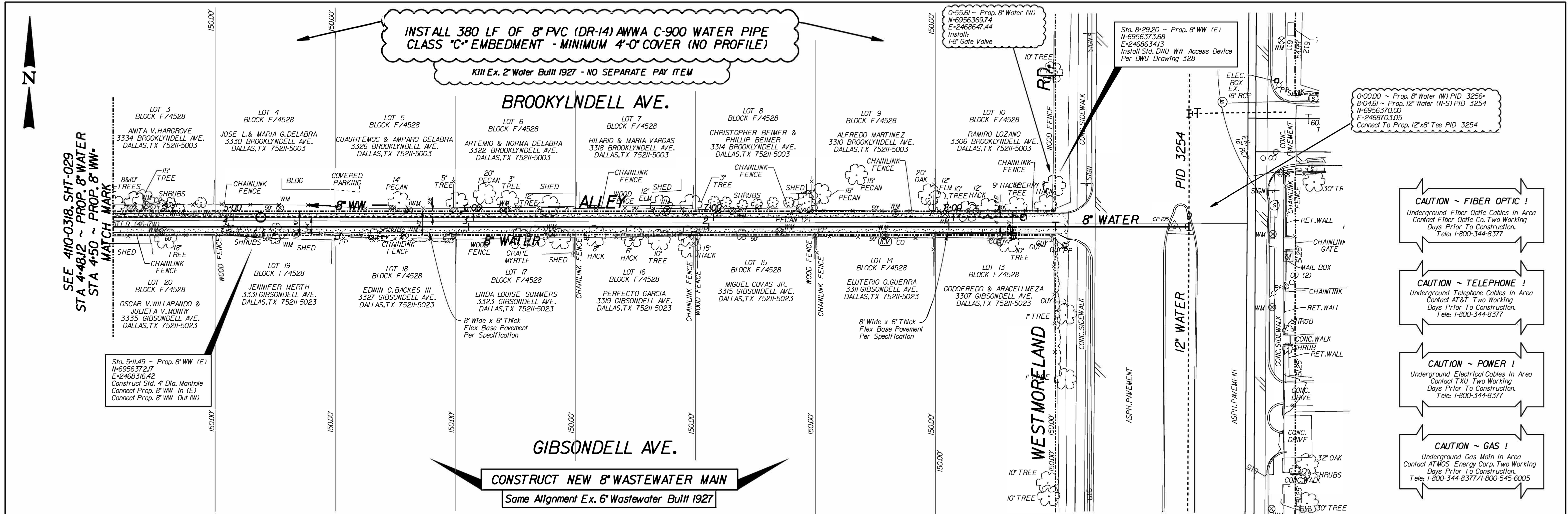
  

CONTRACT NO. 20-273/274	PID 3256
<b>WATER &amp; WASTEWATER MAINS</b>	
ALLEY/BROOKLYNDELL & GIBSONDELL	
COOMBS CR. DR. TO WESTMORELAND RD.	
DALLAS WATER UTILITIES	
CITY OF DALLAS, TEXAS	

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	0318	029



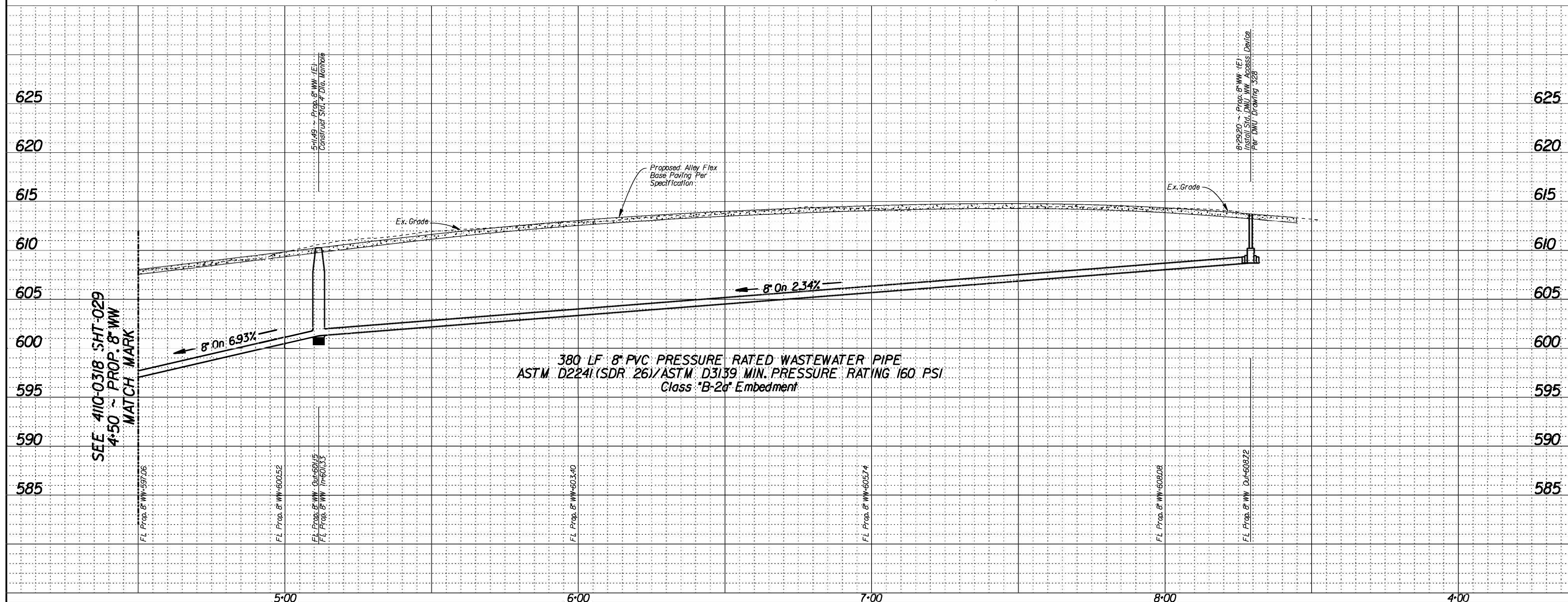


**CAUTION ~ FIBER OPTIC !**  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ TELEPHONE !**  
 Underground Telephone Cables In Area  
 Contact AT & T Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
 Underground Electrical Cables In Area  
 Contact AT & T Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact ATMOS Energy Corp. Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377/1-800-545-6005

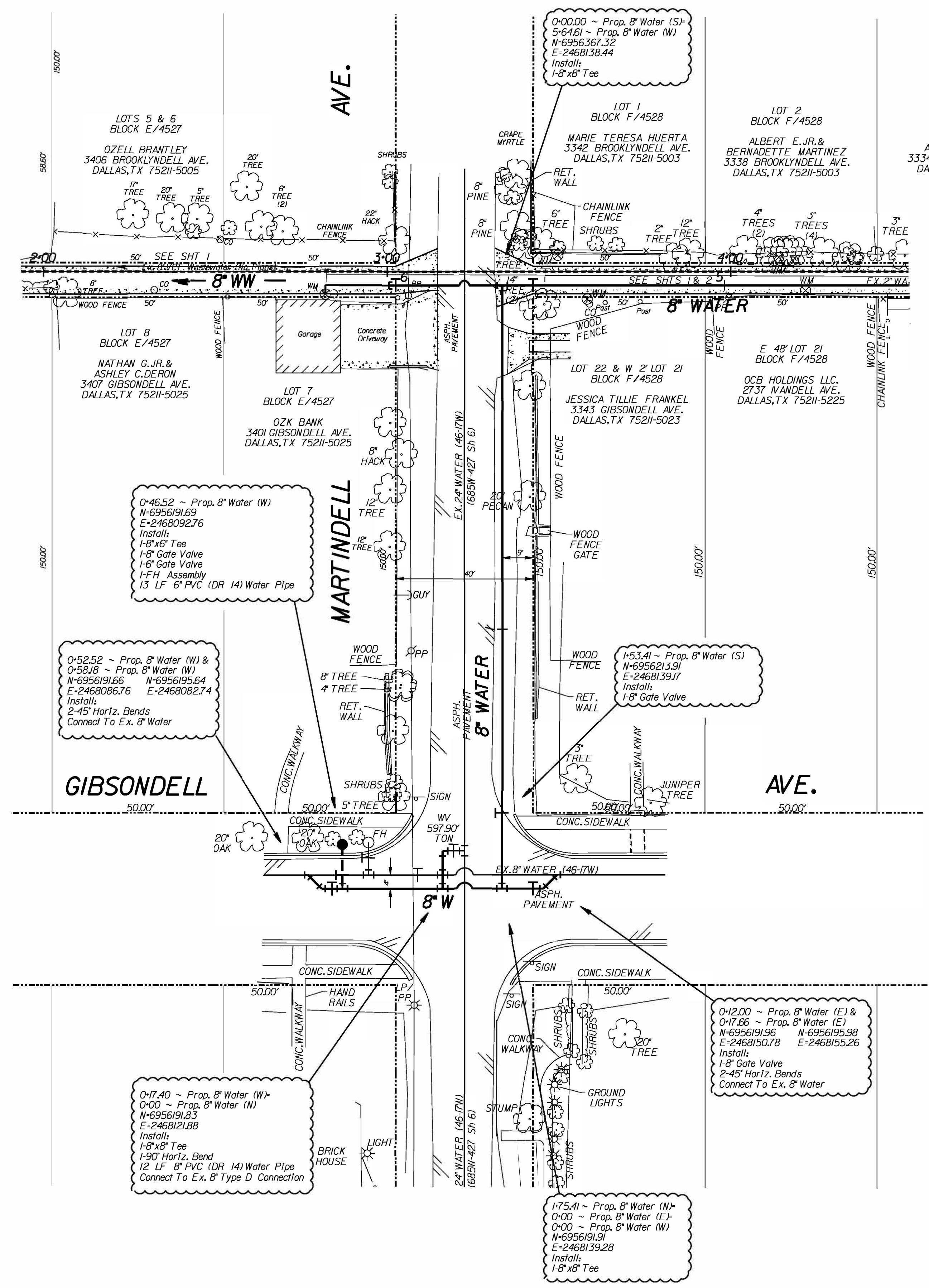


REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Point	Northing	Easting	Elev.	Description	
CP-101	6954698.29	2467410.51	587.74	IR Set	
CP-102	6954700.95	2467797.01	611.05	CP Nail	
CP-104	6955062.59	2468358.99	623.96	IR Set	
CP-105	6955420.34	2468360.11	613.06	*X OUT	
BENCHMARK STANDARD WATER DEPARTMENT BENCHMARK (53-F-55) AT MIDPOINT OF STORM SEWER INLET ON SE CORNER INTERSECTION OF BROOKLYNDELL AVE. AND SOUTH WEST MORELAND RD. ELEVATION = 611.60					
BENCHMARK A STANDARD WATER DEPARTMENT BENCHMARK (53-K-9) SQUARE CUT ON BACK OF CURB AT CENTER OF STORM SEWER DROP INLET AND AT SE CORNER OF INTERSECTION COOMBS CREEK DRIVE AND WANDELL AVENUE. ELEVATION = 590.38					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 45-17W & 46-17W					
WASTEWATER 45-17S & 46-17S					
2M Associates, LLC 1801 Preston Road, Suite A Dallas, TX 75201 Tel: 972.941.2800 Fax: 972.941.2802 www.2massociates.com			Bernard E. Brandon 101949 REGISTERED PROFESSIONAL ENGINEER 6/19/2020		
CONTRACT NO. 20-273/274			PID 3256		
<b>WATER &amp; WASTEWATER MAINS</b>					
<b>ALLEY/BROOKLYNDELL &amp; GIBSONDELL</b>					
<b>COOMBS CR. DR. TO WESTMORELAND RD.</b>					
<b>DALLAS WATER UTILITIES</b>					
<b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	0318	030





INSTALL 270 LF OF 8" PVC (DR-14) ANWA C-900 WATER PIPE CLASS "C" EMBEDMENT - MINIMUM 4'-0" COVER (NO PROFILE)



**CAUTION ~ FIBER OPTIC !**  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
Contact AT&T Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
Underground Electrical Cables In Area  
Contact T XU Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

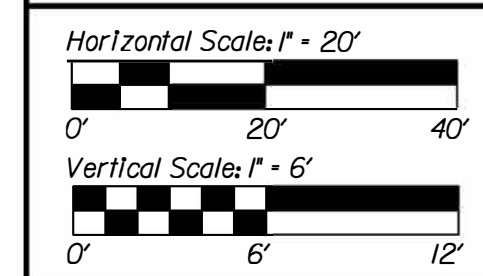
**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact AT&MOS Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005

REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1				
2				

BENCHMARKS & CONTROL POINTS				
Point	Northing	Easting	Elev.	Description
CP-101	6954698.29	2467410.51	587.74	IR Set
CP-102	6954700.95	2467797.01	611.05	CP Nail
CP-104	6955062.59	2468358.99	623.96	IR Set
CP-105	6955420.34	2468360.11	613.06	*X CUT

**BENCHMARK**  
STANDARD WATER DEPARTMENT BENCHMARK (53-F-55) AT MIDPOINT OF STORM SEWER INLET ON SE CORNER INTERSECTION OF BROOKLYNDELLE AVE. AND SOUTH WEST MORELAND RD.  
**ELEVATION = 611.60**

**BENCHMARK**  
A STANDARD WATER DEPARTMENT BENCHMARK (53-K-9) SQUARE CUT ON BACK OF CURB AT CENTER OF STORM SEWER DROP INLET AND AT SE CORNER OF INTERSECTION COOMBS CREEK DRIVE AND WANDELLE AVENUE.  
**ELEVATION = 590.38**



6/19/2020

REFERENCES	
WATER	45-17W & 46-17W
WASTEWATER	45-17S & 46-17S

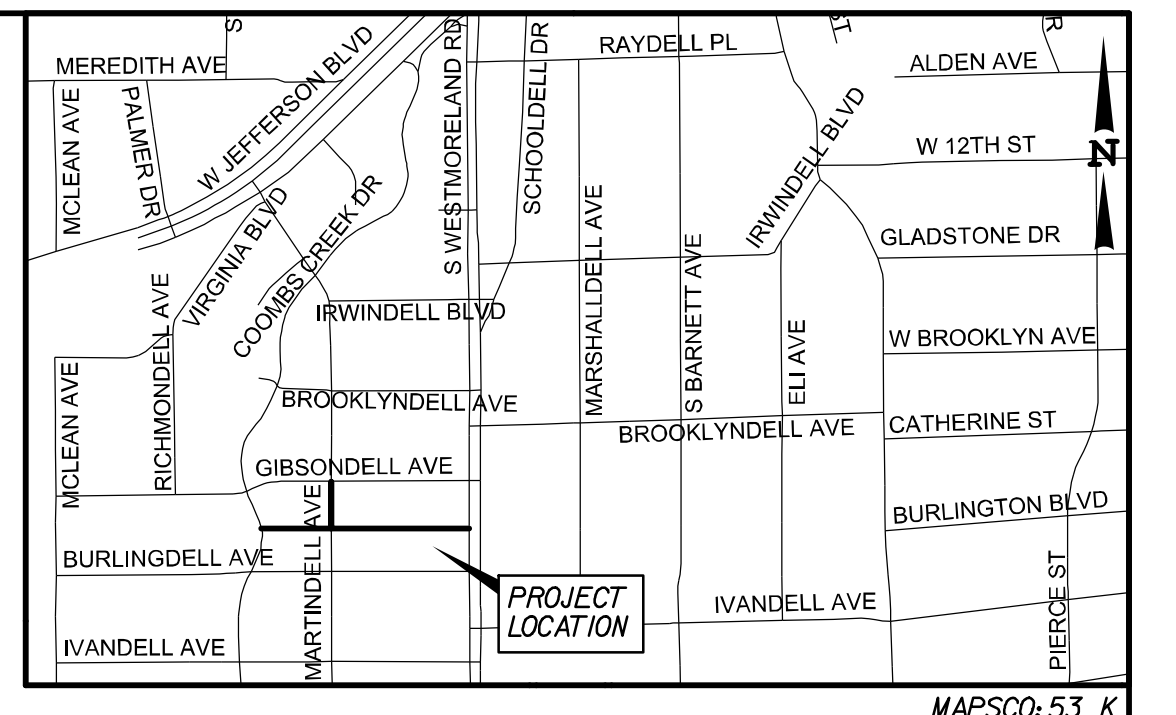
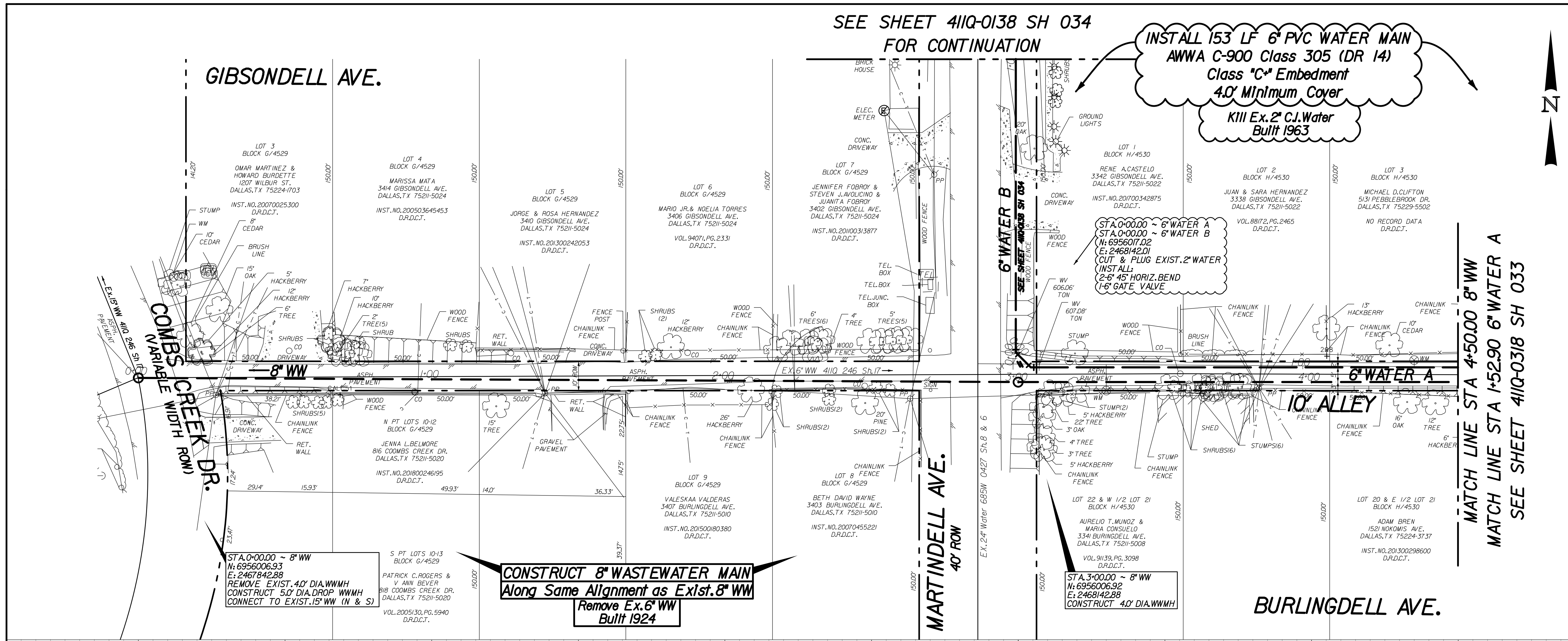
2M Associates, LLC  
1801 Colson Blvd., Ste 101, Richardson, TX 75080  
972.641.2000 | 972.641.2001

**CONTRACT NO. 20-273/274**      **PID 3256**

**WATER & WASTEWATER MAINS**  
**ALLEY/BROOKLYNDELLE & GIBSONDELLE**  
**COOMBS CR.DR. TO WESTMORELAND RD.**  
**DALLAS WATER UTILITIES**  
**CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	0318	031





INSTALL 153 LF 6" PVC WATER MAIN  
 AWWA C-900 Class 305 (DR 14)  
 Class "C" Embedment  
 4.0' Minimum Cover  
 K111 Ex. 2" C.I. Water  
 Built 1963

STA 0+00.00 ~ 6" WATER A  
 STA 0+00.00 ~ 6" WATER B  
 (N: 695607.02  
 E: 2468142.01)  
 CUT & PLOG EXIST. 2" WATER  
 INSTALL  
 2-6" 45° HORIZ. BEND  
 1-6" GATE VALVE

STA 0+00.00 ~ 8" WW  
 N: 6956006.93  
 E: 2467842.99  
 REMOVE EXIST. 4.0' DIA. WMMH  
 CONSTRUCT 5.0' DIA. DROP WMMH  
 CONNECT TO EXIST. 15" W (N & S)

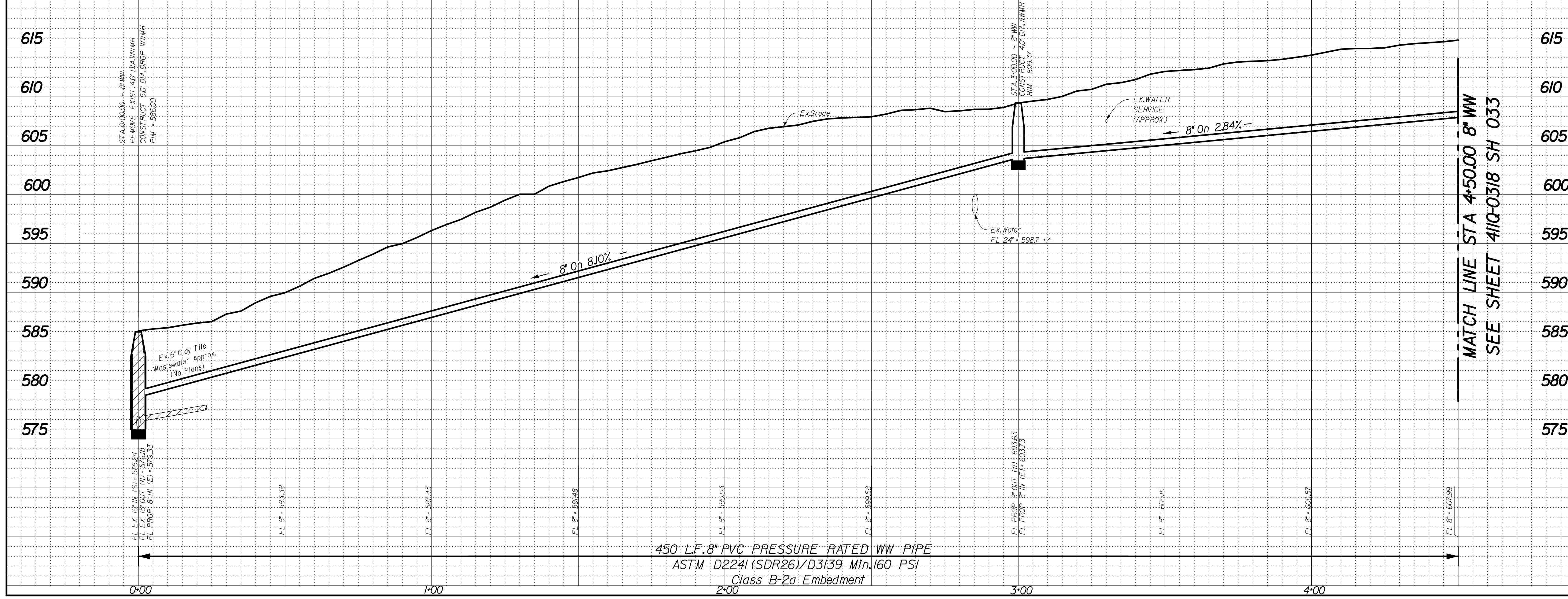
CONSTRUCT 8" WASTEWATER MAIN  
 Along Same Alignment as Exst. 8" WW  
 Remove Ex. 6" WW  
 Built 1924

STA 3+00.00 ~ 8" WW  
 N: 6956006.92  
 E: 2468142.88  
 CONSTRUCT 4.0' DIA. WMMH

CAUTION ~ FIBER OPTIC !  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

CAUTION ~ GAS !  
 Underground Gas Main In Area  
 Contact AT&T Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377/1-800-545-6005

NOTES:  
 1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 21, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
 2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.

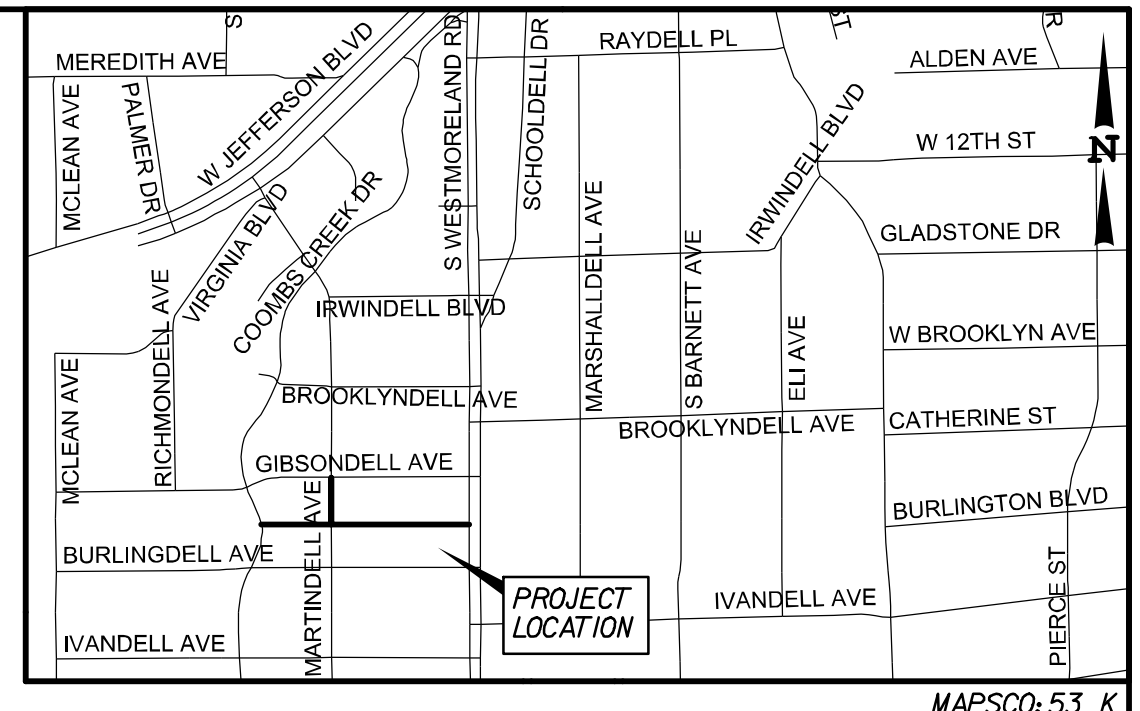
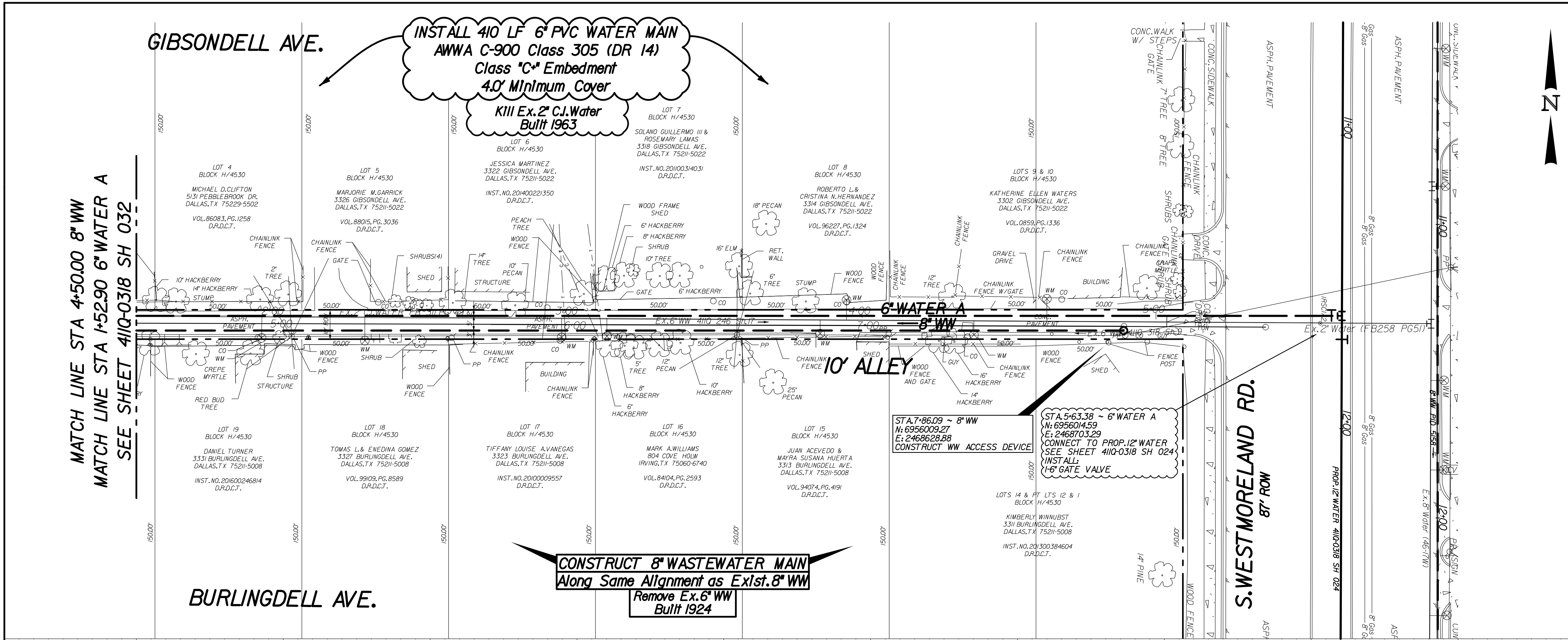


REV. NO.	DATE	DESCRIPTION	BY			
1		BENCHMARKS & CONTROL POINTS				
2		ST.D. WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON SE CORNER OF INTERSECTION OF CLARENDON DR & WESTMORELAND RD ELEV=639.87				
3		BENCHMARK				
4		ST.D. WATER DEPT. BM AT MIDPOINT OF CONCRETE CURB ON STORM SEWER INLET AT SE CORNER OF INTERSECTION OF BROOKLYNDELL AVE AND S WESTMORELAND RD ELEV=618.0				
5		Point				
6		101	6954698.29	2467410.51	587.74	1/2-IN IRON ROD
7		102	6954700.95	2467797.01	611.05	MAG NAIL
8		103	6954700.86	2468362.41	632.71	1/2-IN IRON ROD
9		104	6955062.59	2468358.99	623.96	1/2-IN IRON ROD
10		105	6955420.34	2468360.11	613.06	X CUT
11		106	6955780.81	2468359.06	603.55	1/2-IN IRON ROD
12		107	6956143.96	2468352.95	591.69	1/2-IN IRON ROD
13		108	6955187.48	2467474.69	583.19	X CUT
14		109	6955202.69	2467144.97	591.62	X CUT
15		110	6955062.89	2467800.50	608.86	MAG NAIL

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	41IQ	0318	032

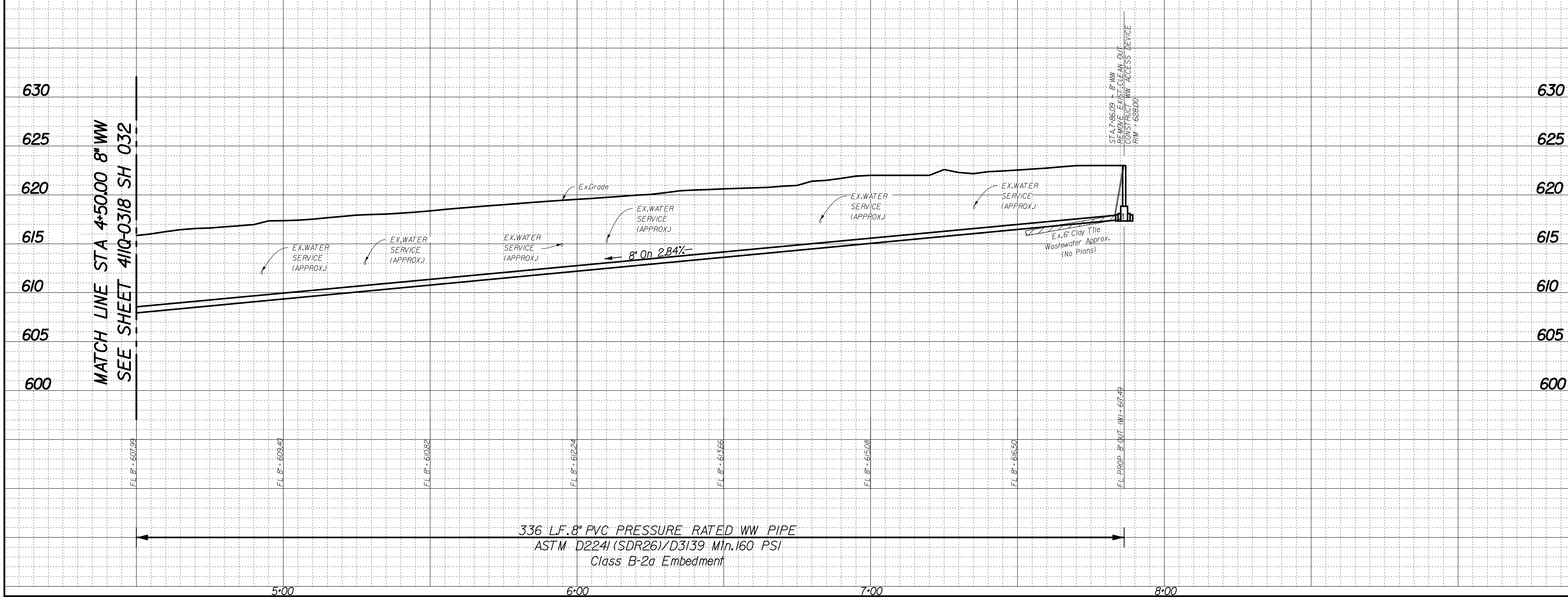




**CAUTION ~ FIBER OPTIC !**  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

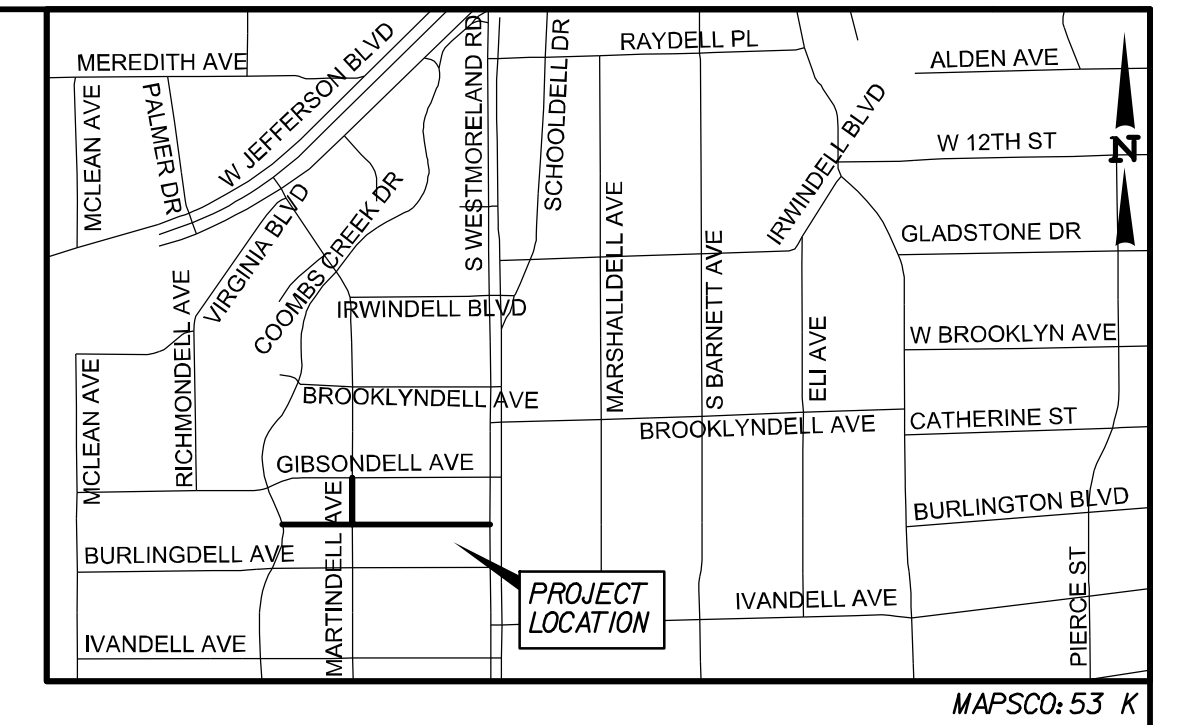
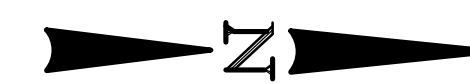
**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact AT&M Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005

NOTES:  
1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 21, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.00036506.  
2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.



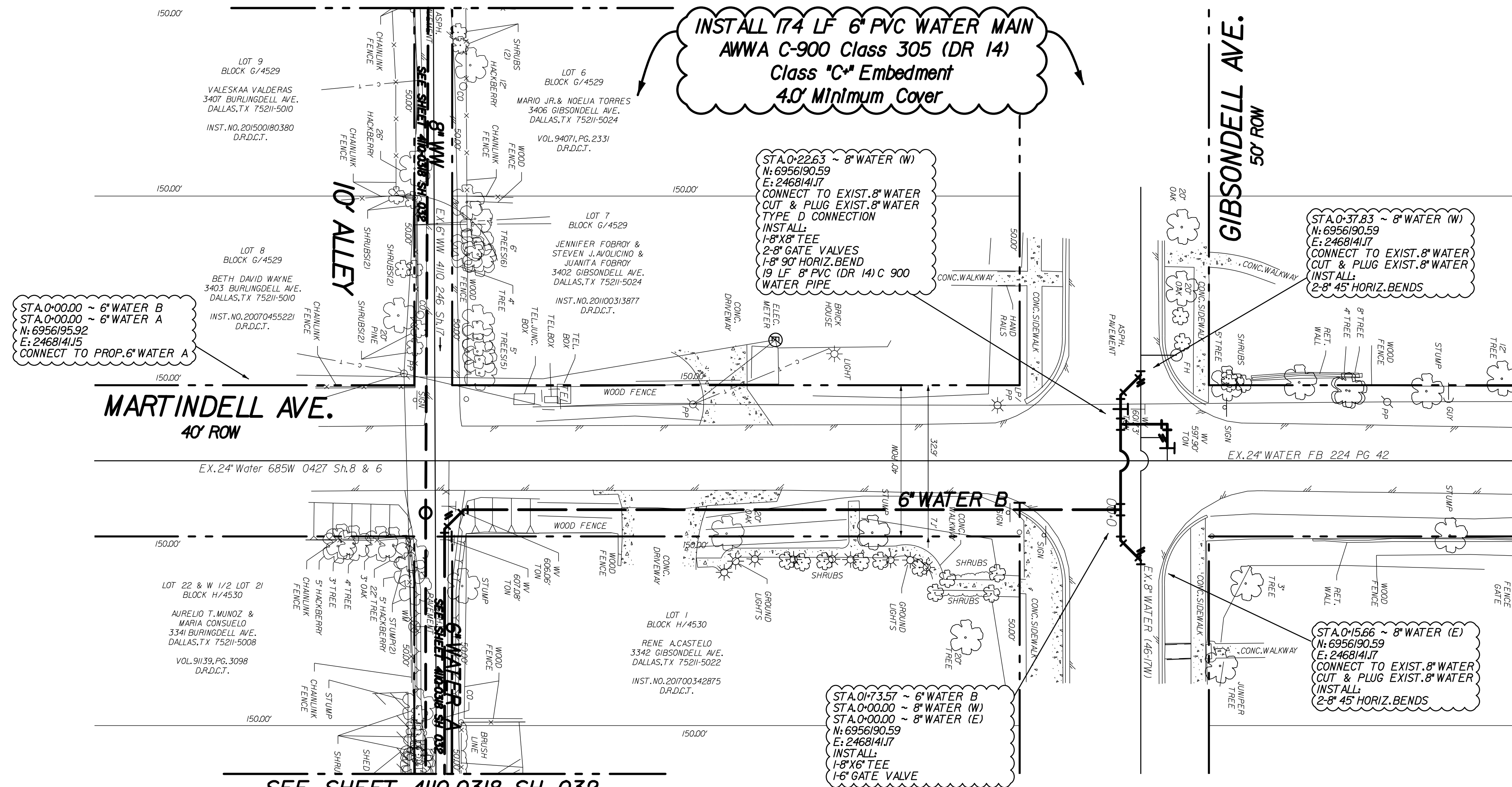
REV. NO.	DATE	DESCRIPTION	BY
<b>REVISIONS</b>			
<b>BENCHMARKS &amp; CONTROL POINTS</b>			
630		BENCHMARK STD. WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON SE CORNER OF INTERSECTION OF CLARENDON DR & WEST MORELAND RD. ELEV=639.87	
625		BENCHMARK STD. WATER DEPT. BM AT MIDPOINT OF CONCRETE CURB ON STORM SEWER INLET AT SE CORNER OF INTERSECTION OF BROOKLYNDELL AVE AND S WEST MORELAND RD. ELEV=618.0	
625		Point	Northing Easting Elev. Description
620		101	6954698.29 2467410.51 587.74 1/2-IN IRON ROD
620		102	6954700.95 2467797.01 611.05 MAG NAIL
620		103	6954700.86 2468362.41 632.71 1/2-IN IRON ROD
620		104	6955062.59 2468358.99 623.96 1/2-IN IRON ROD
620		105	6955420.34 2468360.11 613.06 X CUT
620		106	6955780.81 2468359.06 603.55 1/2-IN IRON ROD
620		107	6956143.96 2468352.95 591.69 1/2-IN IRON ROD
620		108	6955187.48 2467474.69 583.19 X CUT
615		109	6955202.69 2467144.97 591.62 X CUT
615		110	6955062.89 2467800.50 608.86 MAG NAIL
610		Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6'	
605			
605		<b>REFERENCES</b> WATER 46-17W WASTEWATER 45-17S & 46-17S	
600		 Binkley & Barfield, Inc.   TBPE No. F-257 1801 Gateway Blvd, Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com	
CONTRACT NO. 20-273/274		PID: 3279	
<b>6" WATER &amp; 8" WW MAIN</b>			
<b>ALLEY - GIBSONDELL &amp; BURLINGDELL</b>			
<b>COOMBS CREEK TO WESTMORELAND</b>			
<b>DALLAS WATER UTILITIES</b>			
<b>CITY OF DALLAS, TEXAS</b>			
DESIGN	DRAWN	DATE	FILE
BB1	BB1	JUNE 2020	411Q
			NUMBER
			0318
			SHEET
			033





MAPSCO: 53 K

SEE SHEET 41IQ-0318 SH 032  
FOR CONTINUATION



SEE SHEET 41IQ-0318 SH 032  
FOR CONTINUATION

**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
Contact S.B.C. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ FIBER OPTIC !**  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

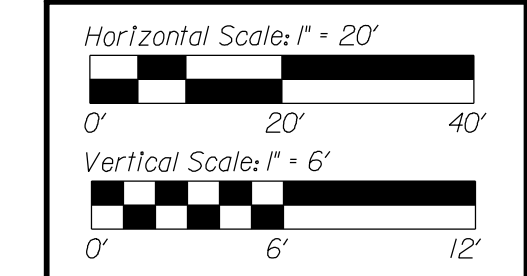
**CAUTION ~ POWER !**  
Underground Electrical Cables In Area  
Contact TXU Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact AT&M Energy Corp. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377 / 1-800-545-6005

**CAUTION Advanced Metering Infrastructure (AMI) Meters In Area**  
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by D.W.U. Personnel ONLY.  
Contact D.W.U. Meter Reading Operations (MRO) 5 working days in advance.  
Tel: 214-670-5537  
Email: DWU.MRO@dallascityhall.com

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS			
ST.D. WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON SE CORNER OF INTERSECTION OF CLARENDON DR & WESTMORELAND RD - <b>ELEV-63987</b>			
ST.D. WATER DEPT. BM AT MIDPOINT OF CONCRETE CURB ON STORM SEWER INLET AT SE CORNER OF INTERSECTION OF BROOKLYNDELL AVE AND S WESTMORELAND RD - <b>ELEV-6160</b>			
Point	Northing	Easting	Elev. Description
101	6954698.29	2467410.51	587.74 1/2-IN IRON ROD
102	6954700.95	2467797.01	611.05 MAG NAIL
103	6954700.86	2468362.41	632.71 1/2-IN IRON ROD
104	6955062.59	2468358.99	623.96 1/2-IN IRON ROD
105	6955420.34	2468360.11	613.06 X CUT
106	6955780.81	2468359.06	603.55 1/2-IN IRON ROD
107	6956143.96	2468352.95	591.69 1/2-IN IRON ROD
108	6955187.48	2467474.69	583.19 X CUT
109	6955202.69	2467144.97	591.62 X CUT
110	6955062.89	2467800.50	608.86 MAG NAIL



Tommy Romo II, P.E.  
6/22/20

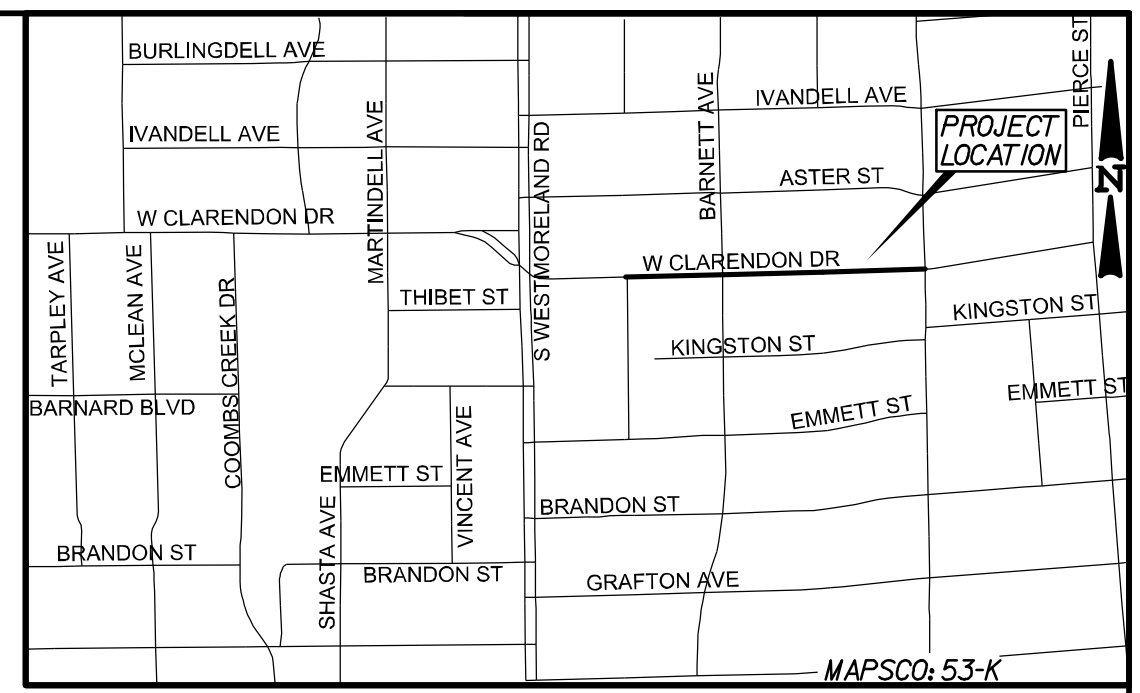
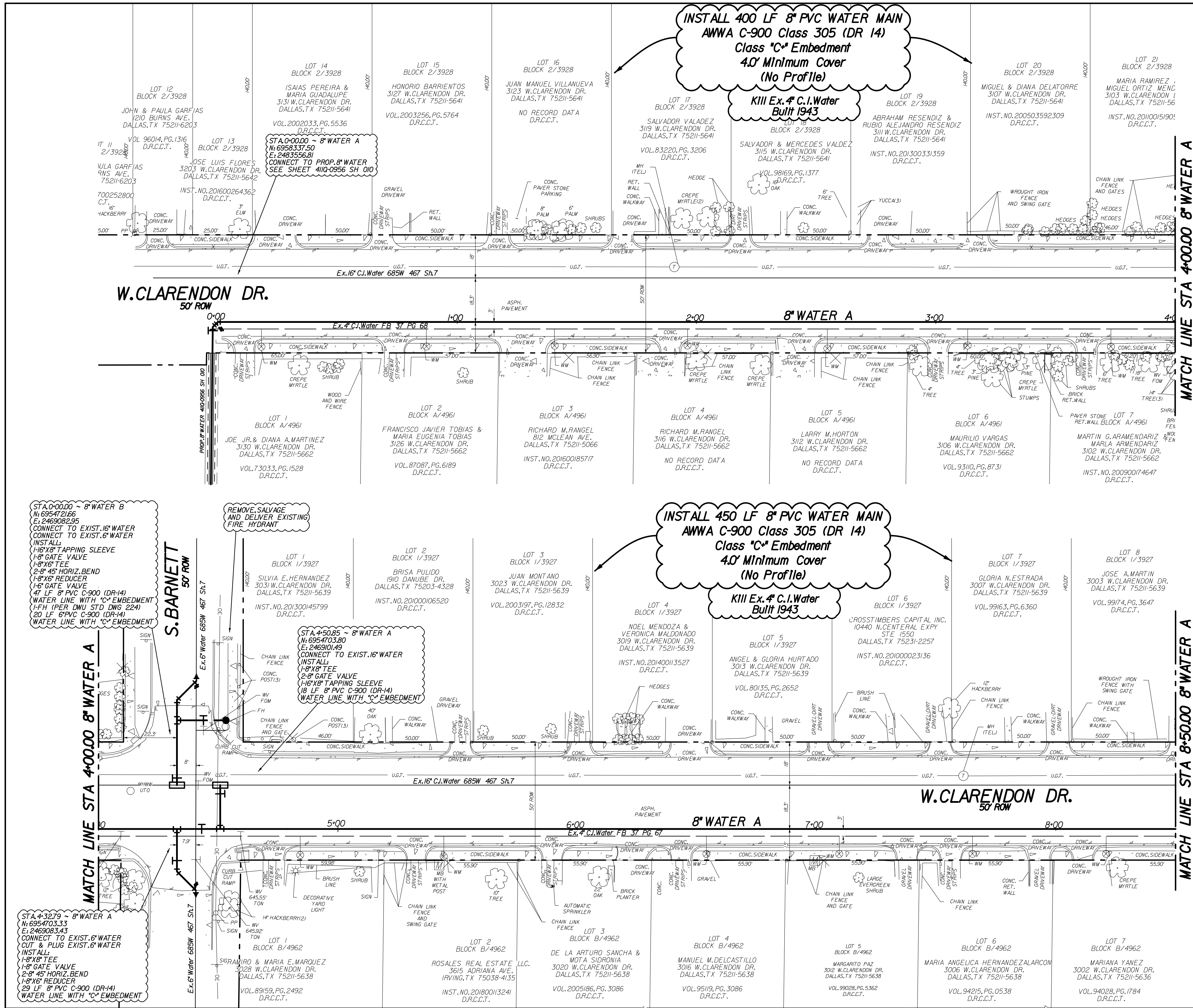
REFERENCES
WATER 46-17W
WASTEWATER 45-17S & 46-17S

Binkley & Barfield, Inc. | TBPE No. F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

<b>CONTRACT NO. 20-273/274</b>		<b>PID: 3279</b>
<b>6" WATER</b>		
<b>ALLEY - GIBSONDELL &amp; BURLINGDELL</b>		
<b>COOMBS CREEK TO WESTMORELAND</b>		
<b>DALLAS WATER UTILITIES</b>		
<b>CITY OF DALLAS, TEXAS</b>		

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BB1	BB1	JUNE 2020	41IQ	0318	034





**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
Contact S.E.C. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ FIBER OPTIC !**  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

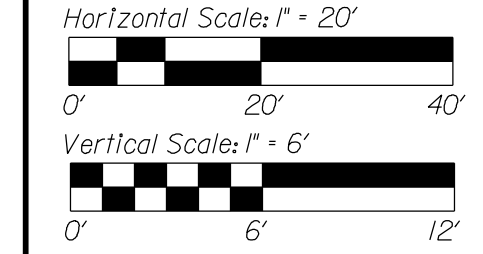
**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact AMOS Energy Corp. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005

**NOTES:**  
1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 6, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWI INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
3. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.

REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARK BENCHMARKS & CONTROL POINTS**  
53-K-115: STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV=639.87

Point	Northing	Easting	Elev.	Description
125/BM1	6954030.06	2469992.40	632.46	SO. CUT X
126/BM2	6954014.24	2469352.16	645.62	SO. CUT X
127/BM3	6953997.62	2468755.27	645.79	SO. CUT X



Terry P. Romo II  
6/22/20

REFERENCES
WATER 46-17W, 47-17W
WASTEWATER 46-17S, 47-17S

**Binkley & Barfield, Inc.** | TxEng F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

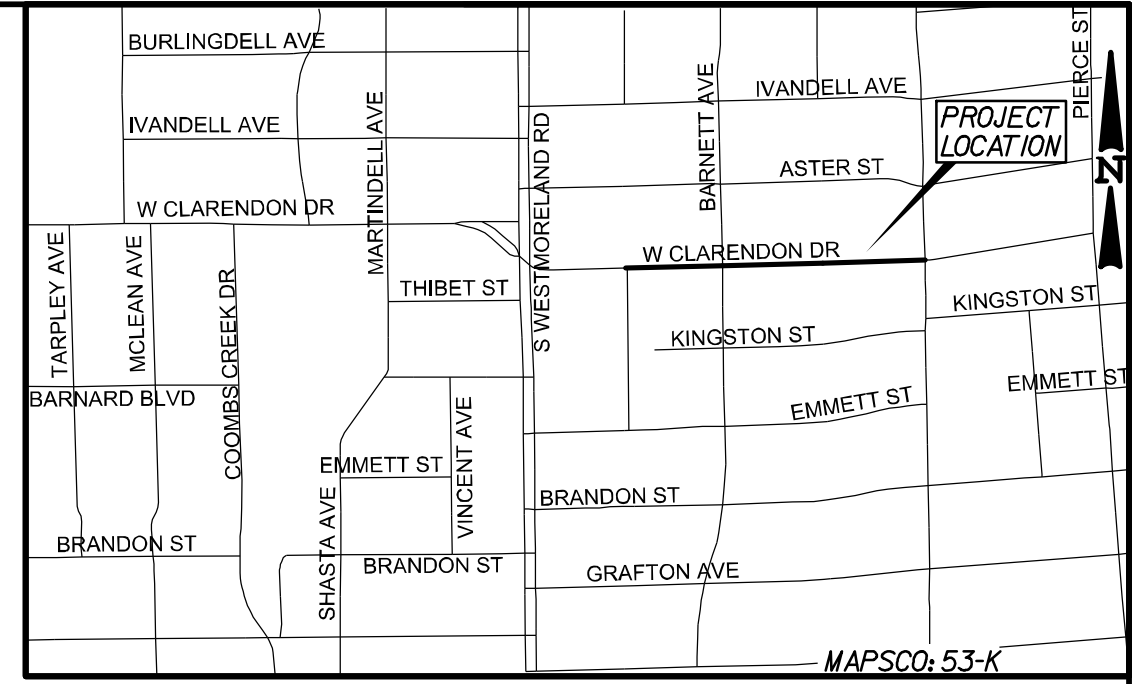
**CONTRACT NO. 20-273/274** | **PID: 3287**

**8" WATER**  
**W CLAREDON DR**  
**EASEMENT TO S RAVINIA DR**  
**DALLAS WATER UTILITIES**  
**CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BB1	BB1	JUNE 2020	41IQ	0956	007



MATCH LINE STA 8+50.00 8" WATER A  
SEE SHEET 411Q-0956 SH 007



INSTALL 39 LF 16" PVC WATER MAIN  
AWWA C-905 Class 305 (DR 14)  
Class "C" Embedment  
4.0' Minimum Cover  
(No Profile)  
KIII Ex. 16" C.I. Water  
Built 1944

INSTALL 47.3 LF 8" PVC WATER MAIN  
AWWA C-900 Class 305 (DR 14)  
Class "C" Embedment  
4.0' Minimum Cover  
(No Profile)  
KIII Ex. 4" C.I. Water  
Built 1943

STA 0+427.2 ~ 8" WATER (N)  
N: 6954986.86  
E: 2470358.80  
CONNECT TO EXIST. 8" WATER  
CUT & PLUG EXIST. 8" WATER  
INSTALL:  
2-8" 45' HORIZ. BEND  
1-8" GATE VALVE

STA 0+312.8 ~ 8" WATER (N)  
N: 6954974.38  
E: 2470355.62  
INSTALL:  
TYPE D CONNECTION  
1-8" X 8" TEE  
1-8" GATE VALVE  
1-8" 90' HORIZ. BEND  
1-16" X 8" TEE  
15 LF 8" PVC C-900 (DR-14 WATER)  
WITH CLASS "C" EMBEDMENT

STA 0+387.2 ~ 16" WATER  
N: 6954970.05  
E: 2470367.99  
CONNECT TO EXIST. 16" WATER  
CUT & PLUG EXIST. 16" WATER  
INSTALL:  
2-16" 45' HORIZ. BENDS

CAUTION ~ TELEPHONE !  
Underground Telephone Cables In Area  
Contact S.E.C. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

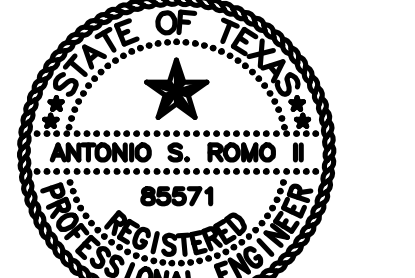
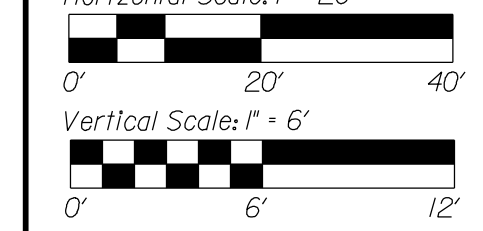
CAUTION ~ GAS !  
Underground Gas Main In Area  
Contact AT&S Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377 / 1-800-545-6005

NOTES:  
1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 6, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
3. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.

REV. NO.	DATE	DESCRIPTION	BY

BENCHMARK BENCHMARKS & CONTROL POINTS  
53-K-115; STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV=639.87

Point	Northing	Easting	Elev.	Description
125/BM1	6954030.06	2469992.40	632.46	SO. CUT X
126/BM2	695404.24	2469352.16	645.62	SO. CUT X
127/BM3	6953997.62	2468755.27	645.79	SO. CUT X

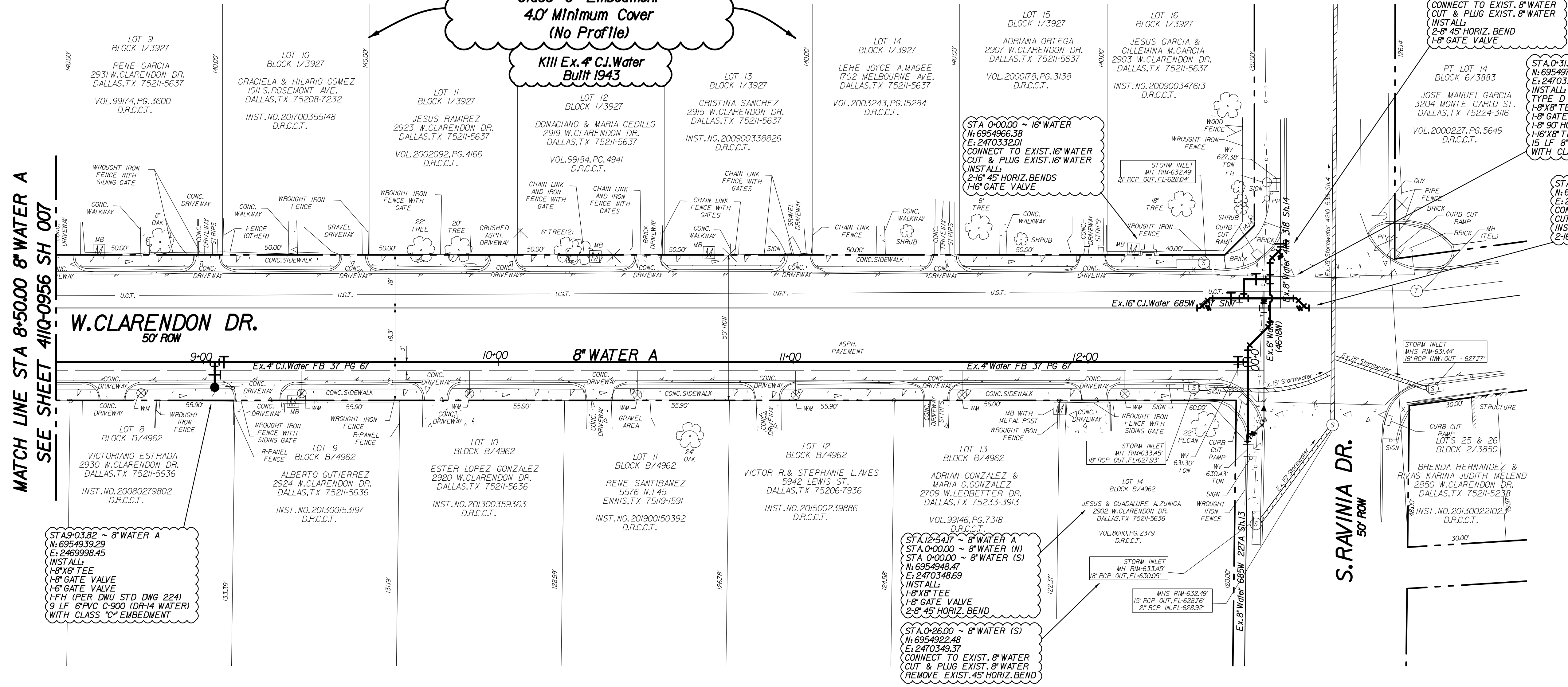


Terry Romo, Inc.  
6/22/20

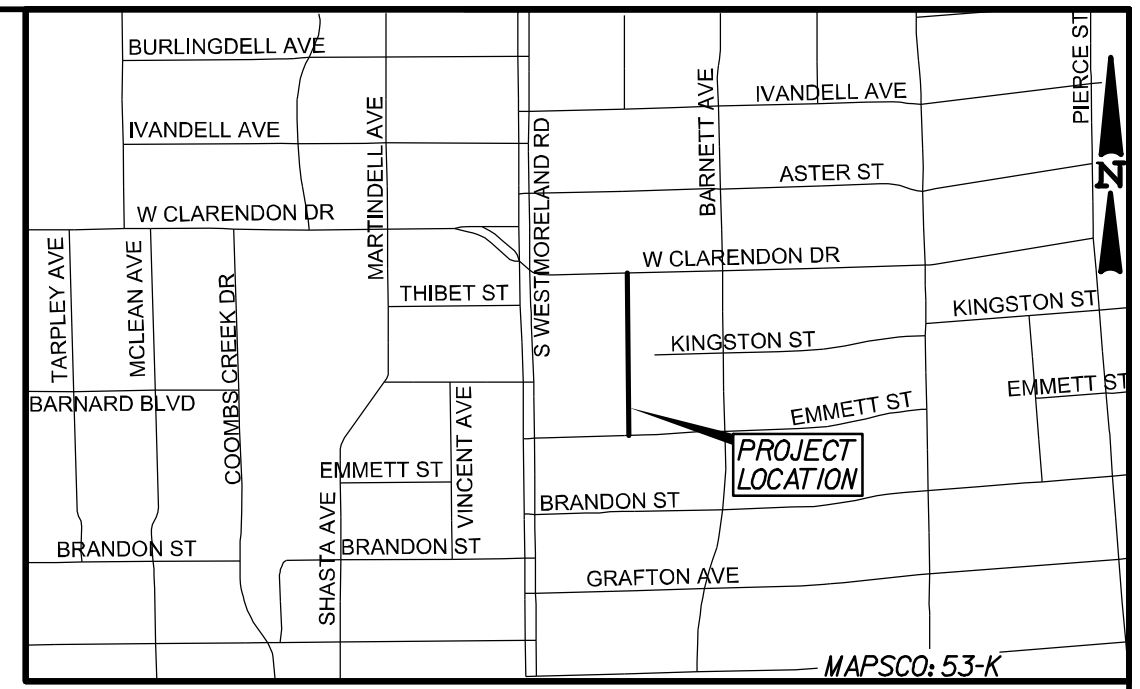
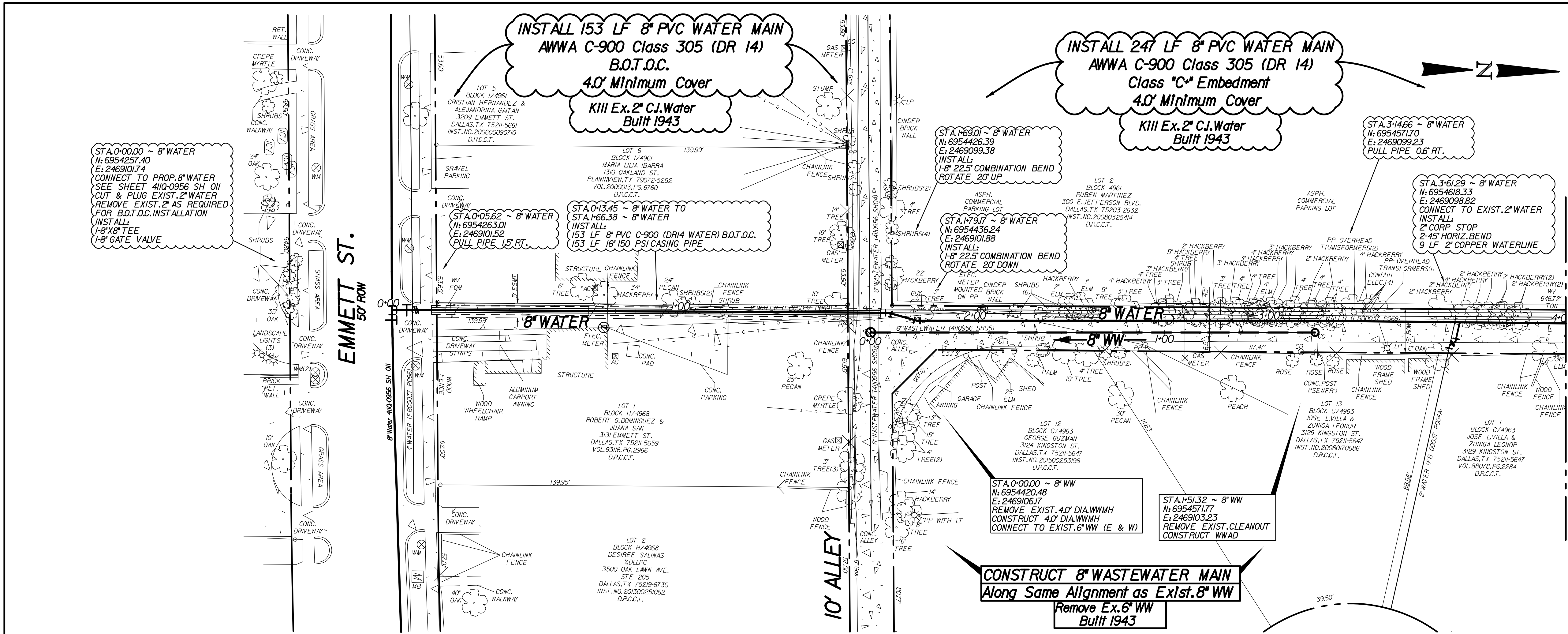
Binkley & Barfield, Inc. | TxEng F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com  
CONTRACT NO. 20-273/274 PID: 3287

8" WATER  
W CLAREDON DR  
EASEMENT TO S RAVINIA DR  
DALLAS WATER UTILITIES  
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BB1	BB1	JUNE 2020	411Q	0956	008





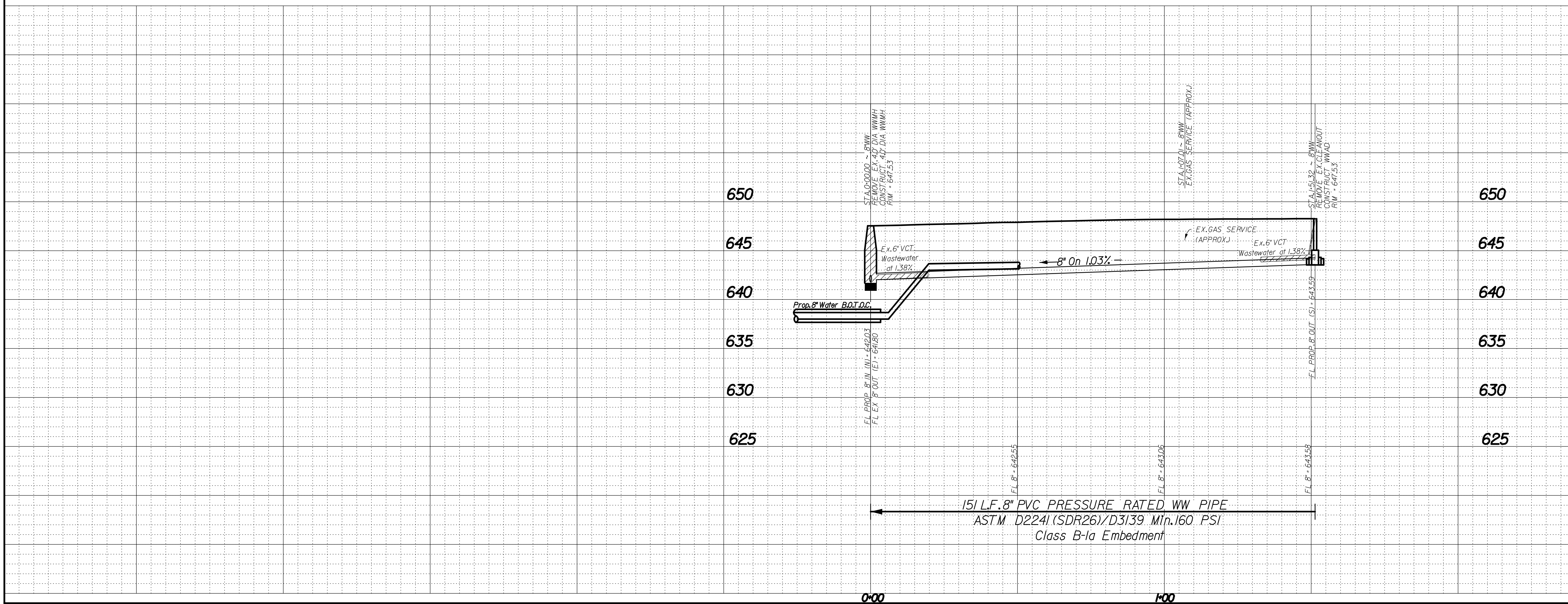


**CAUTION ~ POWER !**  
Underground Electrical Cables in Area  
Contact TXU Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
Underground Gas Main in Area  
Contact ATMOS Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005

MATCH LINE STA 4+00 8" WATER  
SEE SHEET 411Q-0956 SH 010

NOTES:  
1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 6, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.



REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARKS & CONTROL POINTS**  
53-K-115: STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV=639.87

Point	Northing	Easting	Elev.	Description
129/BM4	6953258.97	2468386.42	647.92	SO.CUT X
130/BM5	6953313.25	2468160.45	648.02	SO.CUT X
127/BM3	6953997.62	2468755.27	645.79	SO.CUT X

Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 6'

REFERENCES:  
WATER: 46-17W, 47-17W  
WASTEWATER: 46-17S, 47-17S

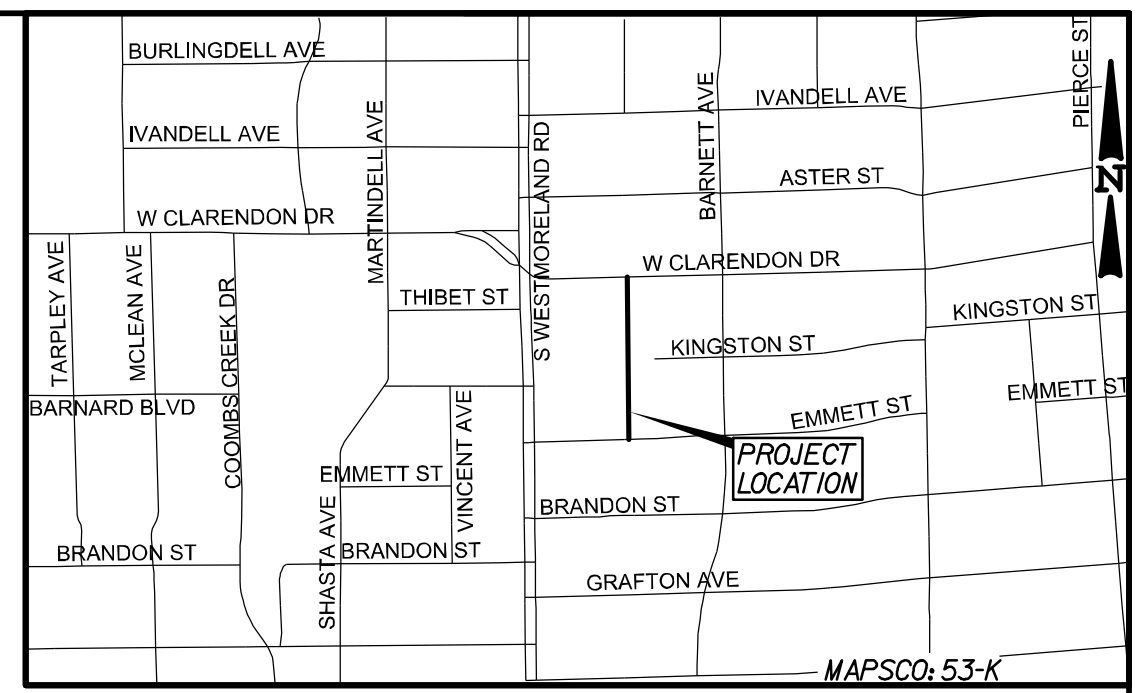
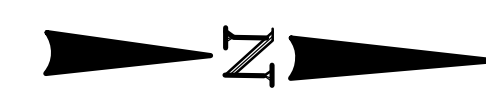
**Binkley & Barfield, Inc.** | TxEng F-257  
1801 Gateway Blvd. Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

CONTRACT NO. 20-273/274 | PID: 3288

**8" WATER & 8" WASTEWATER EASEMENT WEST OF BARNETT CLARENDON DR TO EMMETT ST DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	411Q	0956	009

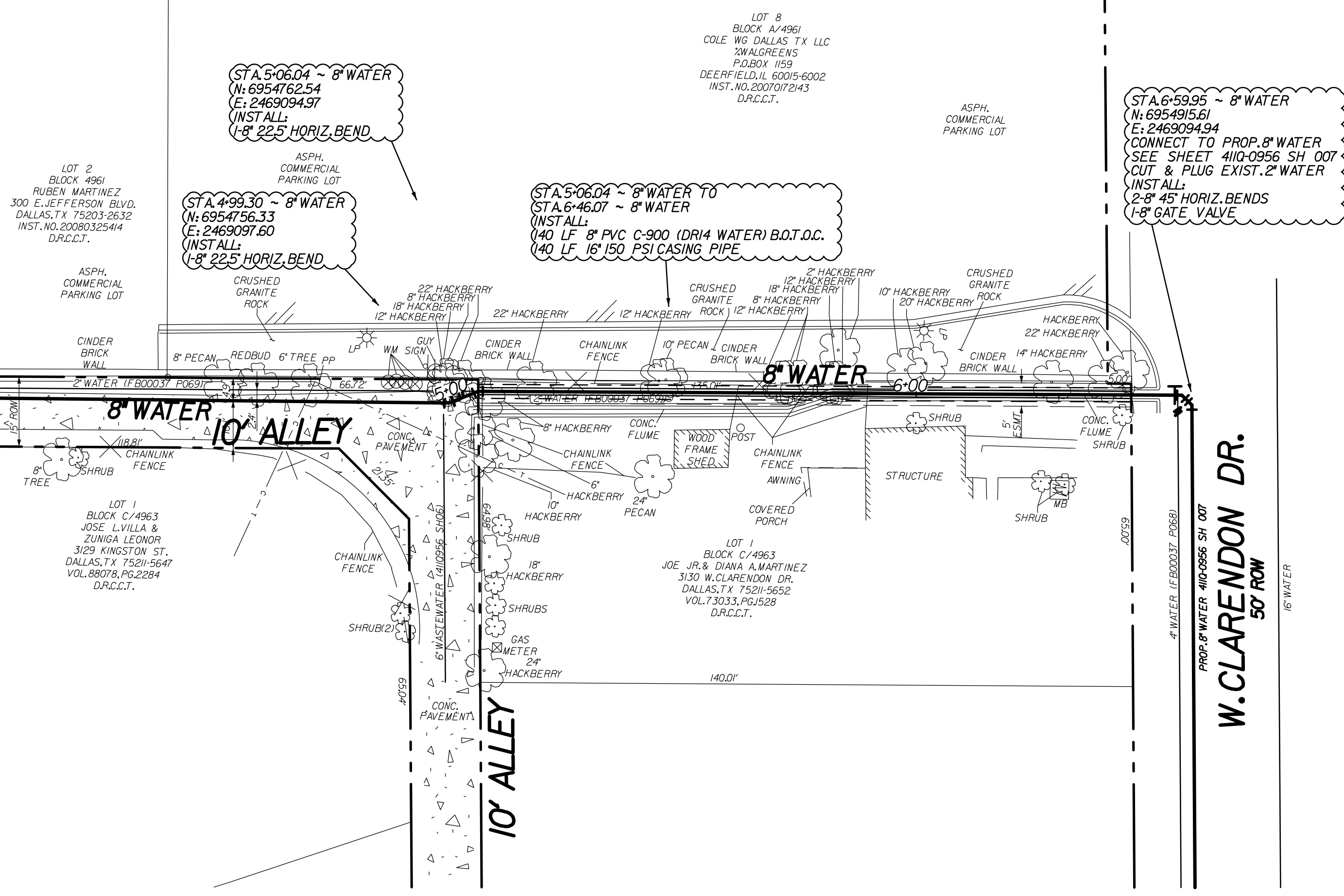




INSTALL 120 LF 8" PVC WATER MAIN  
AWWA C-900 Class 305 (DR 14)  
Class "C" Embedment  
4.0' Minimum Cover  
K111 Ex. 2" C.I. Water  
Built 1943

INSTALL 140 LF 8" PVC WATER MAIN  
AWWA C-900 Class 305 (DR 14)  
B.O.T.O.C.  
4.0' Minimum Cover  
K111 Ex. 2" C.I. Water  
Built 1943

MATCH LINE STA 4+00 8" WATER  
SEE SHEET 4110-0956 SH. 009



CAUTION ~ TELEPHONE !  
Underground Telephone Cables In Area  
Contact S.B.C. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

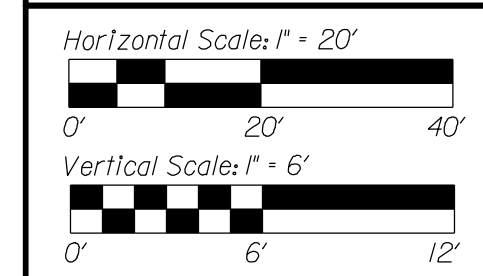
CAUTION ~ FIBER OPTIC !  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

CAUTION ~ GAS !  
Underground Gas Main In Area  
Contact ATMOS Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377 / 1-800-545-6005

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARK BENCHMARKS & CONTROL POINTS**  
53-K-115: STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV: 639.87

Point	Northing	Easting	Elev.	Description
129/BM4	6953258.97	2468386.42	647.92	SO. CUT X
130/BM5	6953313.25	2468760.45	648.02	SO. CUT X
127/BM3	6953997.62	2468755.27	645.79	SO. CUT X



Terry P. Barfield, Inc.  
6/22/20

REFERENCES
WATER 46-17W, 47-17W
WASTEWATER 46-17S, 47-17S

**Binkley Barfield** Consulting Engineers  
Binkley & Barfield, Inc. | TxEng F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

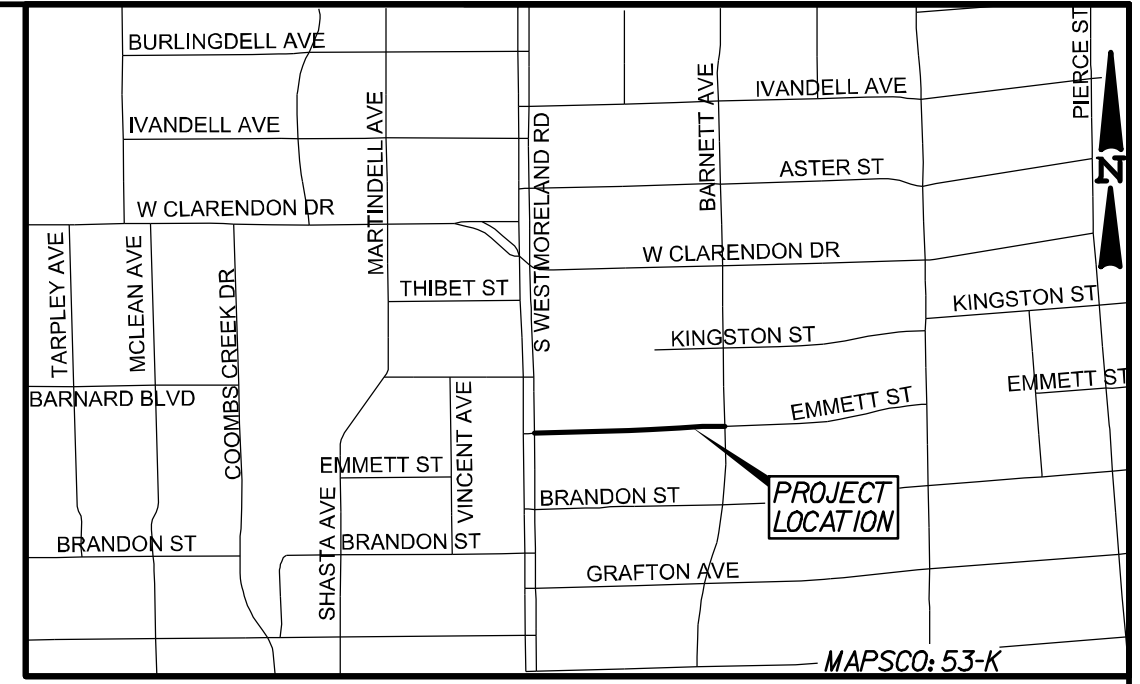
CONTRACT NO. 20-273/274 PID: 3288

**PROPOSED MAIN**  
EASEMENT WEST OF BARNETT  
CLARENDON DR TO EMMETT ST  
DALLAS WATER UTILITIES  
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	411Q	0956	010



INSTALL 400 LF 8" PVC WATER MAIN  
 AWWA C-900 Class 305 (DR 14)  
 Class "C" Embedment  
 4.0' Minimum Cover  
 K111 Ex. 4" & 1" C.J. Water  
 Built 1943



STA. 0+00.00 ~ 8" WATER  
 N: 6954249.90  
 E: 2468766.97  
 CONNECT TO EXIST. 8" WATER  
 CUT & PLUG EXIST. 4" WATER  
 INSTALL  
 1-8" X 8" CUT IN TEE  
 1-8" GATE VALVE

STA. 0+024 ~ 8" WATER  
 N: 6954250.03  
 E: 2468777.20  
 PULL PIPE 05' LT.

STA. 3+34.86 ~ 8" WATER  
 N: 6954257.40  
 E: 2469017.4  
 CONNECT TO PROP. 8" WATER  
 (SEE SHEET 411Q-0956 SH 009)  
 INSTALL:  
 1-8" GATE VALVE

PROP WATER  
 CURVE DATA  
 Δ = 140° 34.38"  
 R = 3,418.18'  
 L = 5428'  
 T = 2714'

CAUTION ~ TELEPHONE !  
 Underground Telephone Cables In Area  
 Contact S.B.C. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377

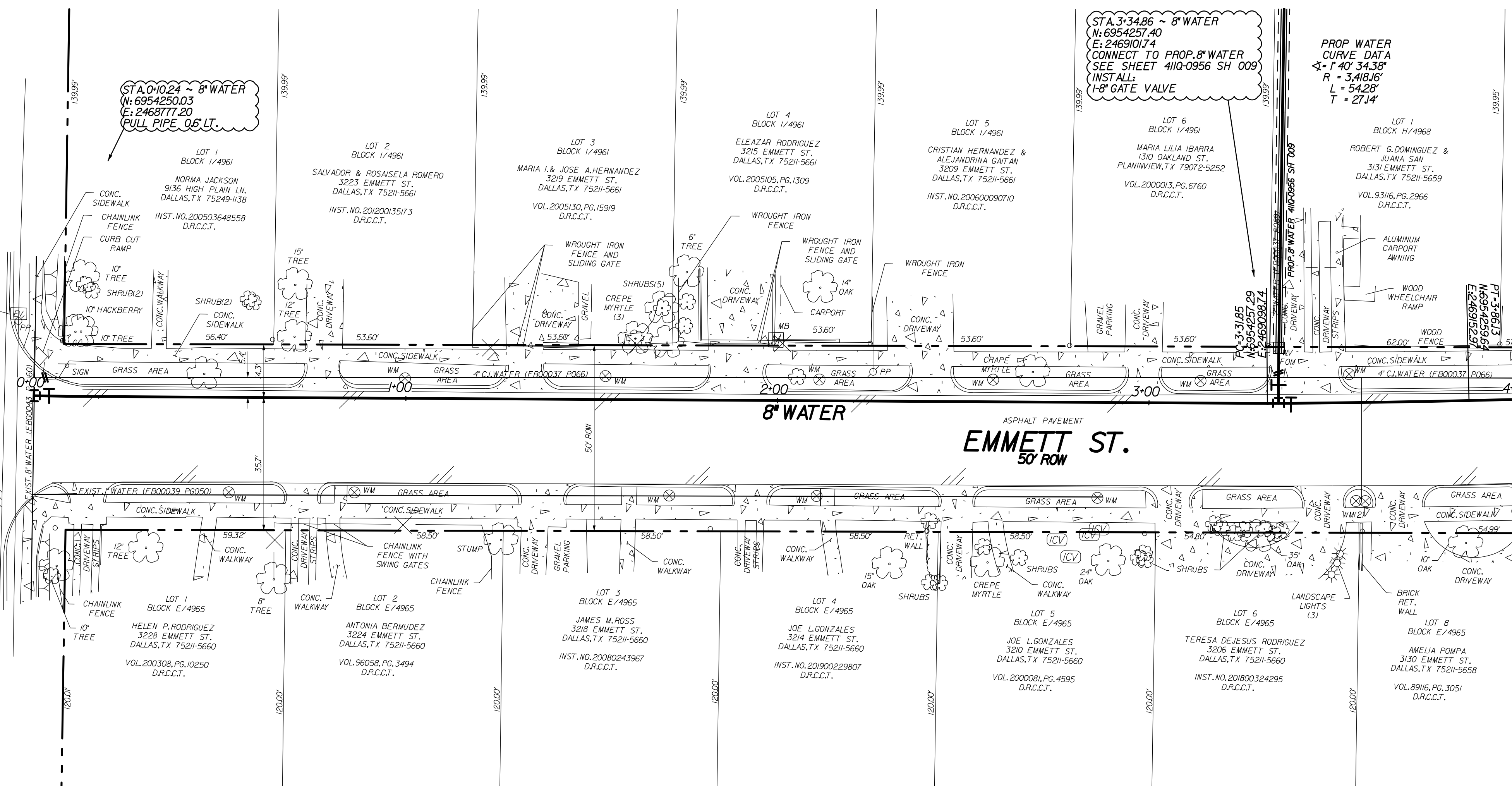
CAUTION ~ GAS !  
 Underground Gas Main In Area  
 Contact ATMOS Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

NOTES:  
 1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 11, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
 2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
 3. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.

S. WEST MORELAND RD.  
 100' ROW

EMMETT ST.  
 50' ROW

MATCH LINE STA 4+00 8" WATER  
 SEE SHEET 411Q-0956 SH 012



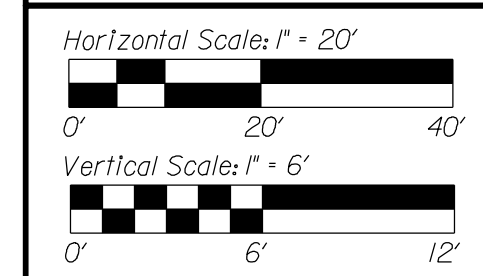
REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARKS & CONTROL POINTS**

BENCHMARK  
 DWU 53-K-115: STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV=639.87

BENCHMARK  
 BM7: SQUARE CUT ON BACK OF CURB IN MIDPOINT OF CURVE ON THE NORTHEAST CORNER OF THE INTERSECTION OF BARNETT AVE. WITH AN ALLEY BETWEEN KINGSTON ST. & EMMETT ST.

Point	Northing	Easting	Elev.	Description
129/BM4	6953258.97	2468386.42	647.92	SO. CUT X
130/BM5	6953313.25	2468760.45	648.02	SO. CUT X
131/BM6	6953307.33	2469230.30	637.56	SO. CUT X



STATE OF TEXAS  
 ANTONIO S. ROMO II  
 85571  
 REGISTERED PROFESSIONAL ENGINEER  
 Tony Romo II P.E.  
 6/22/20

Binkley & Barfield, Inc. | TxEng F-257  
 1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
 972.644.2800 | BinkleyBarfield.com

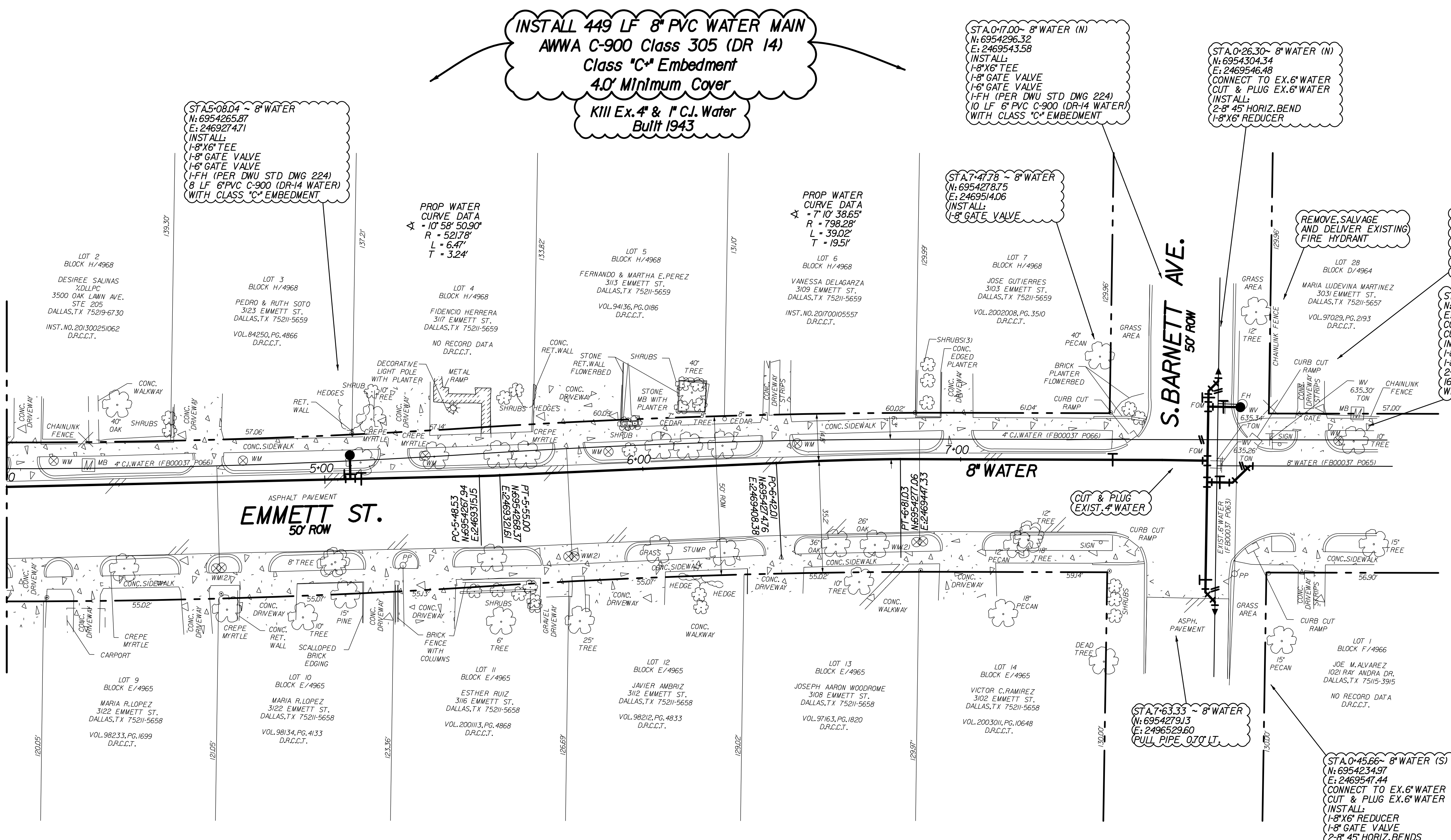
CONTRACT NO. 20-273/274 PID: 3290

**8" WATER**  
**EMMETT STREET**  
**WESTMORELAND RD TO BARNETT AVE**  
**DALLAS WATER UTILITIES**  
**CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	411Q	0956	011



MATCH LINE STA 4+00 8" WATER  
SEE SHEET 41Q-0956 SH 011



**INSTALL 449 LF 8" PVC WATER MAIN**  
AWWA C-900 Class 305 (DR 14)  
Class "C" Embedment  
4.0' Minimum Cover  
K111 Ex. 4 & 1 C.J. Water  
Built 1943

STAS 08.04 ~ 8" WATER  
N: 6954265.87  
E: 2469274.71  
INSTALL:  
1-8" X 6" TEE  
1-8" GATE VALVE  
1-8" GATE VALVE  
(H-FH (PER DWG STD DWG 224))  
8 LF 8" PVC C-900 (DR-14 WATER)  
WITH CLASS "C" EMBEDMENT

STA 0+17.00 ~ 8" WATER (N)  
N: 6954296.32  
E: 2469543.58  
INSTALL:  
1-8" X 6" TEE  
1-8" GATE VALVE  
1-8" GATE VALVE  
(H-FH (PER DWG STD DWG 224))  
10 LF 8" PVC C-900 (DR-14 WATER)  
WITH CLASS "C" EMBEDMENT

STA 0+26.30 ~ 8" WATER (N)  
N: 6954304.34  
E: 2469546.48  
CONNECT TO EX. 6" WATER  
CUT & PLUG EX. 6" WATER  
INSTALL:  
2-8" 45' HORIZ. BEND  
1-8" X 6" REDUCER

STA 7+47.6 ~ 8" WATER  
N: 6954278.75  
E: 2469514.06  
INSTALL:  
1-8" GATE VALVE

STA 7+77.52 ~ 8" WATER (N) +  
STA 0+00.00 ~ 8" WATER (N) +  
STA 0+00.00 ~ 8" WATER (S)  
N: 6954279.32  
E: 2469543.80  
INSTALL:  
1-8" X 6" TEE

STA 0+06.76 ~ 8" WATER (S)  
N: 6954272.56  
E: 2469543.89  
CONNECT TO EX. 6" WATER  
CUT & PLUG EX. 6" WATER  
INSTALL:  
1-8" X 6" TEE  
1-8" GATE VALVE  
16 LF 8" PVC C-900 (DR-14 WATER)  
WITH CLASS "C" EMBEDMENT

REMOVE, SALVAGE  
AND DELIVER EXISTING  
FIRE HYDRANT

**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
Contact S.B.C. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ FIBER OPTIC !**  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

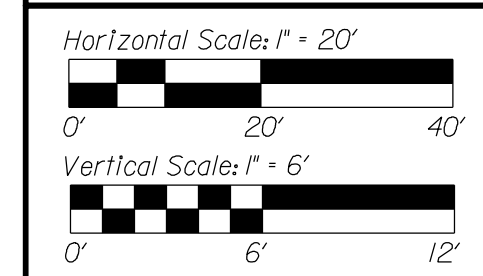
**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact ATMOS Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005

NOTES:  
1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON NOVEMBER 11, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
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REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARKS & CONTROL POINTS**  
DWU 53-K-115: STANDARD WATER DEPT. BM ON CONCRETE CURB AT CENTER OF STORM DROP INLET ON THE SOUTHEAST CORNER OF TEH INTERSECTION OF CLARENDON DR. & WESTMORELAND RD. ELEV=639.87  
**BENCHMARK**  
BM7: SQUARE CUT ON BACK OF CURB IN MIDPOINT OF CURVE ON THE NORTHEAST CORNER OF THE INTERSECTION OF BARNETT AVE. WITH AN ALLEY BETWEEN KINGSTON ST. & EMMETT ST.

Point	Northing	Easting	Elev.	Description
129/BM4	6953258.97	2468386.42	647.92	SO.CUT X
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131/BM6	6953307.33	2469230.30	637.56	SO.CUT X



STATE OF TEXAS  
ANTONIO S. ROMO II  
REGISTERED PROFESSIONAL ENGINEER  
85571  
Terry Romo II P.E.  
6/22/20

REFERENCES

WATER	46-17W, 46-18W
WASTEWATER	46-17S, 46-18S

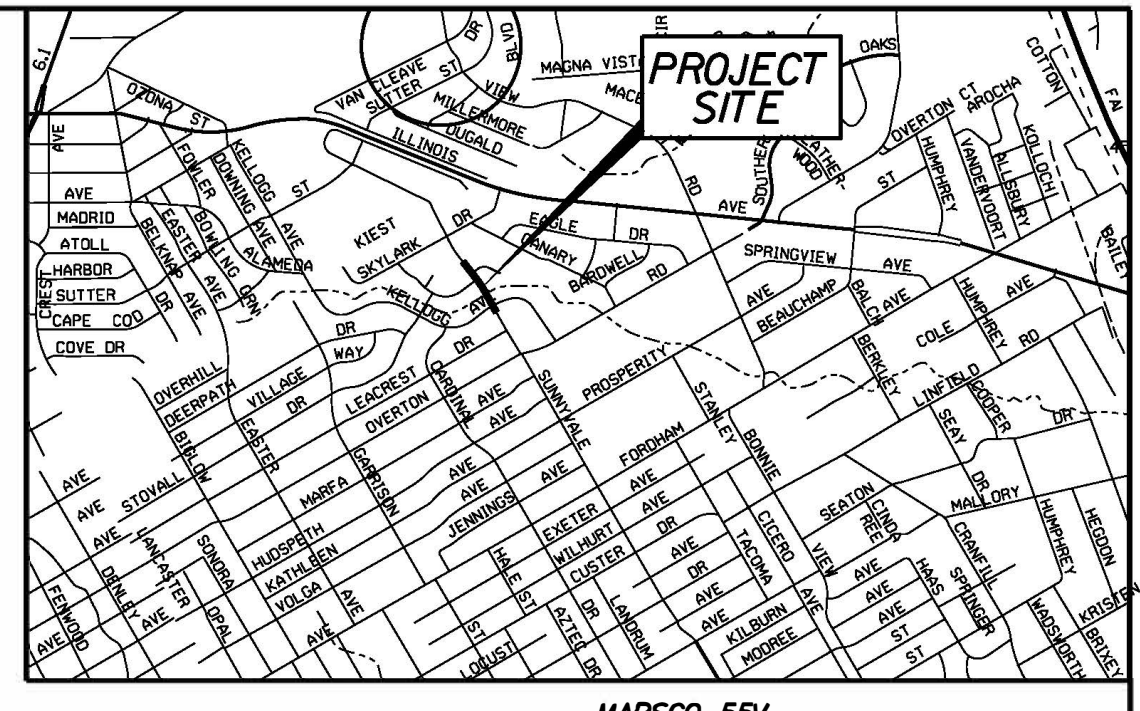
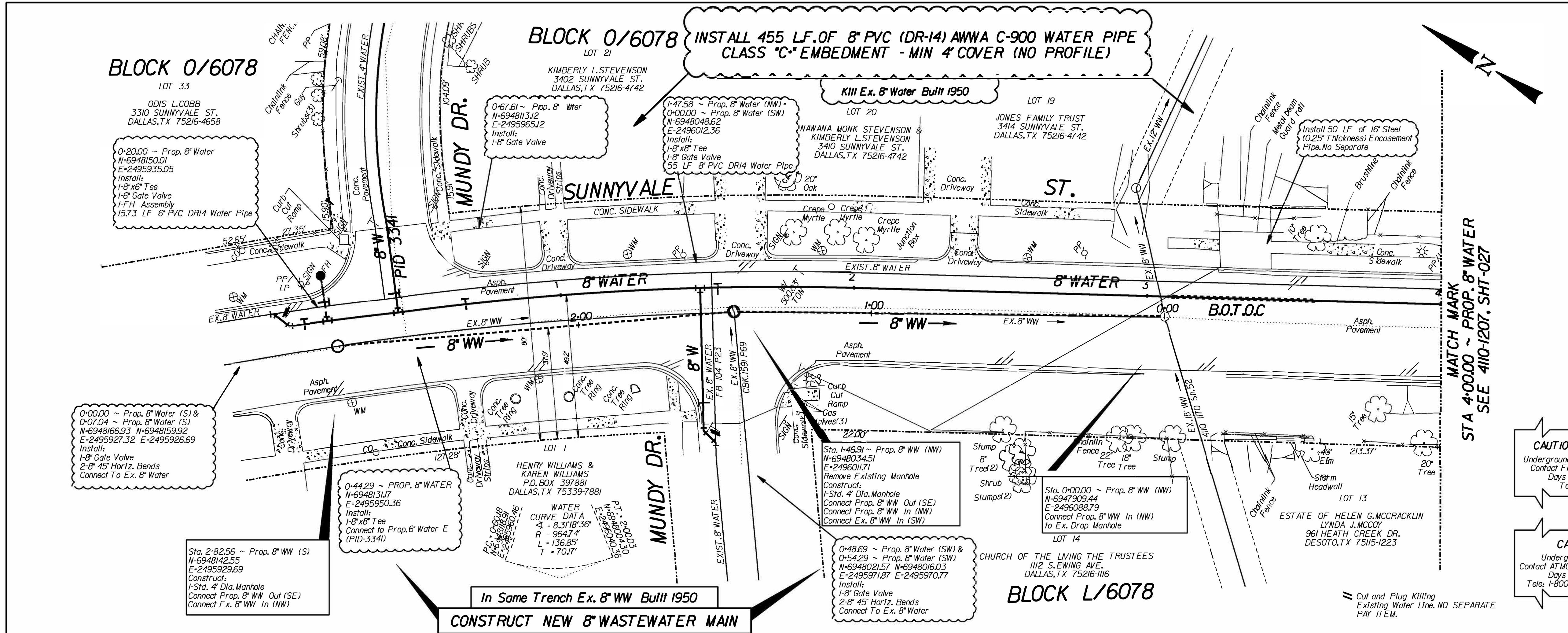
Binkley & Barfield, Inc. | TxEng F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

CONTRACT NO. 20-273/274 PID: 3290

**8" WATER**  
**EMMETT STREET**  
WESTMORELAND RD TO BARNETT AVE  
DALLAS WATER UTILITIES  
CITY OF DALLAS, TEXAS

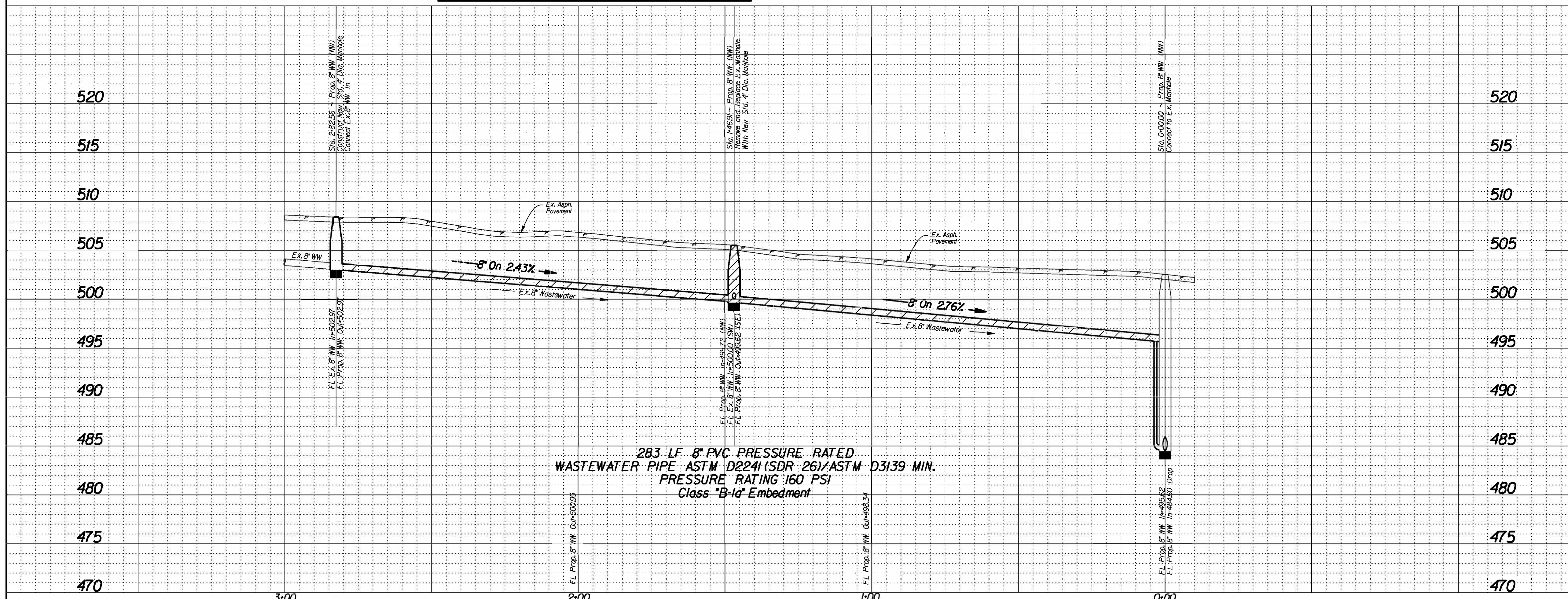
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	41IQ	0956	012





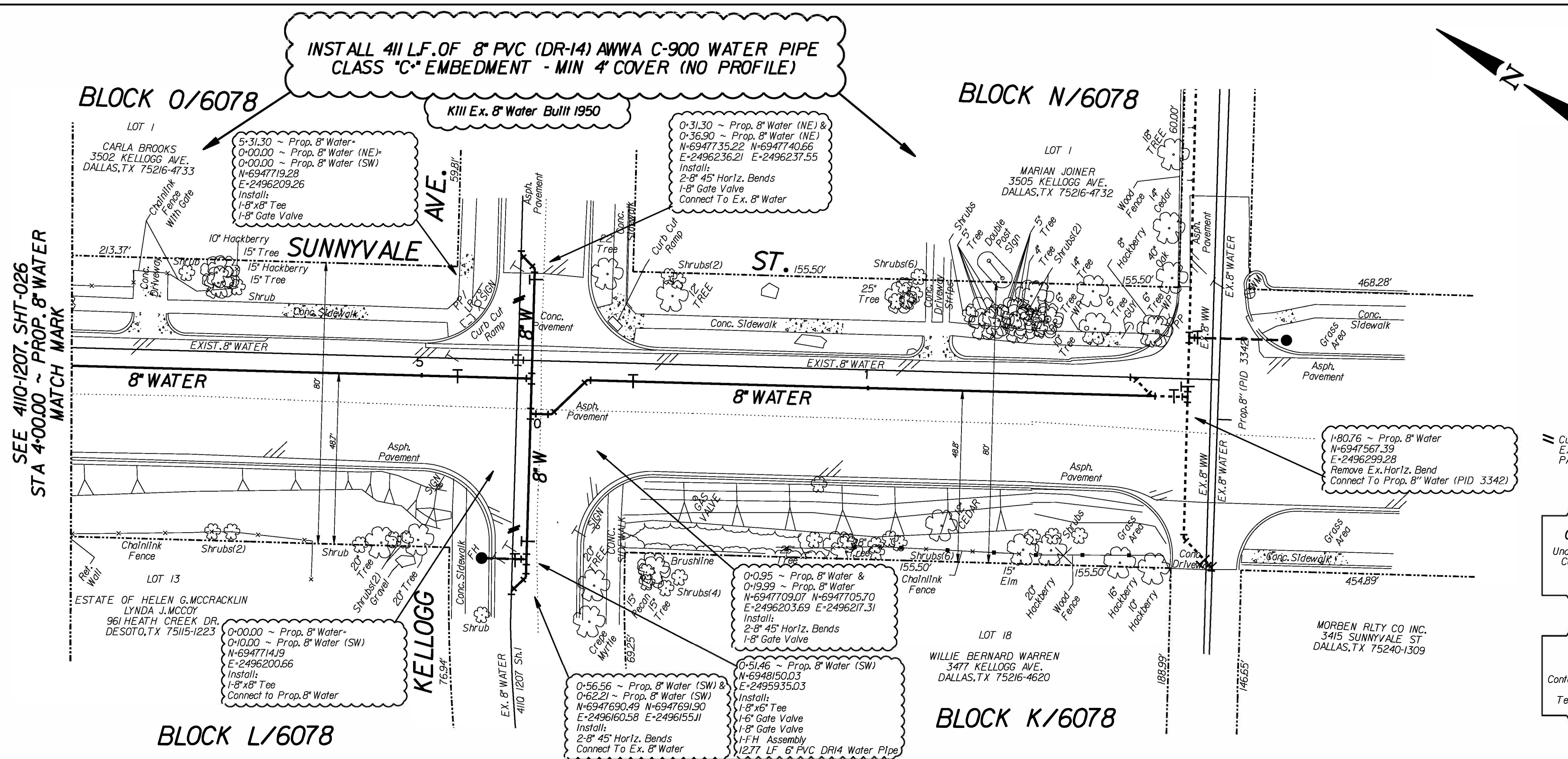
**MATCH MARK**  
**STA 4+00.00 ~ PROP. 8" WATER**  
**SEE 410-1207, SHT-027**

- CAUTION ~ TELEPHONE !**  
 Underground Telephone Cables In Area  
 Contact AT & T Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377
- CAUTION ~ POWER !**  
 Underground Electrical Cables In Area  
 Contact TXU Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377
- CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact ATMOS Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377/1-800-545-6005
- CAUTION**  
**Advanced Metering Infrastructure (AMI) Meters In Area**  
 AMI Components Shall be Disconnected, Reconnected,  
 Handled, or Installed by DWM Personnel ONLY.  
 Contact DWM Meter Reading Operations  
 (MRO) 5 working days In advance.  
 Tele: 214-645-5537  
 Email: DWMURO@dallaswater.com



REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
<b>BENCHMARKS &amp; CONTROL POINTS</b>					
Point	Northing	Easting	Elev.	Description	
CP-101	6946237.64	2496523.38	510.96	"X" SQ. CUT	
CP-102	6946132.44	2496187.89	518.76	"X" SQ. CUT	
CP-103	6946573.43	2495943.51	512.76	"X" CUT	
<b>BENCHMARK</b> SQUARE CUT ON TOP OF CONCRETE CURB AT THE NORTHWEST CORNER OF THE INTERSECTION OF SUNNYVALE ST. & SUTTER ST. <b>ELEVATION = 553.45</b>					
<b>BENCHMARK</b> SQUARE CUT ON TOP OF CONCRETE CURB AT THE ENTRANCE TO HOUSE #2604 AS THE SOUTHWEST CORNER OF THE INTERSECTION SKYLARK DR. & CANARY DR. <b>ELEVATION = 517.39</b>					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
<b>REFERENCES</b>					
<b>WATER</b> 50-26W, 50-27W					
<b>WASTEWATER</b> 50-26S, 50-27S					
 2M Associates, LLC 5830 Preston View Blvd., Suite A Dallas, TX 75240 TX Reg. Engineering Firm E-1258 Tel: 214-645-1177 Fax: 988-528-9180		 Binkley & Barfield, Inc.   TBPE No. F-257 1801 Garaway Blvd., Ste 101, Richardson, TX 75080 Tel: 972-644-2800   BinkleyBarfield.com			
<b>CONTRACT NO. 20-273/274</b>		<b>PID: 3340</b>			
<b>WATER &amp; WASTEWATER MAINS</b>					
<b>SUNNYVALE ST.</b>					
<b>Mundy Dr. To Alley S. Of Lea Crest Dr.</b>					
<b>DALLAS WATER UTILITIES</b>					
<b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	1207	26





SEE 4110-1207, SHT-026  
 STA 4+00.00 ~ PROP. 8\"/>

**INSTALL 411 LF. OF 8\"/>**

K111 Ex. 8\"/>

5+31.30 ~ Prop. 8\"/>

0+31.30 ~ Prop. 8\"/>

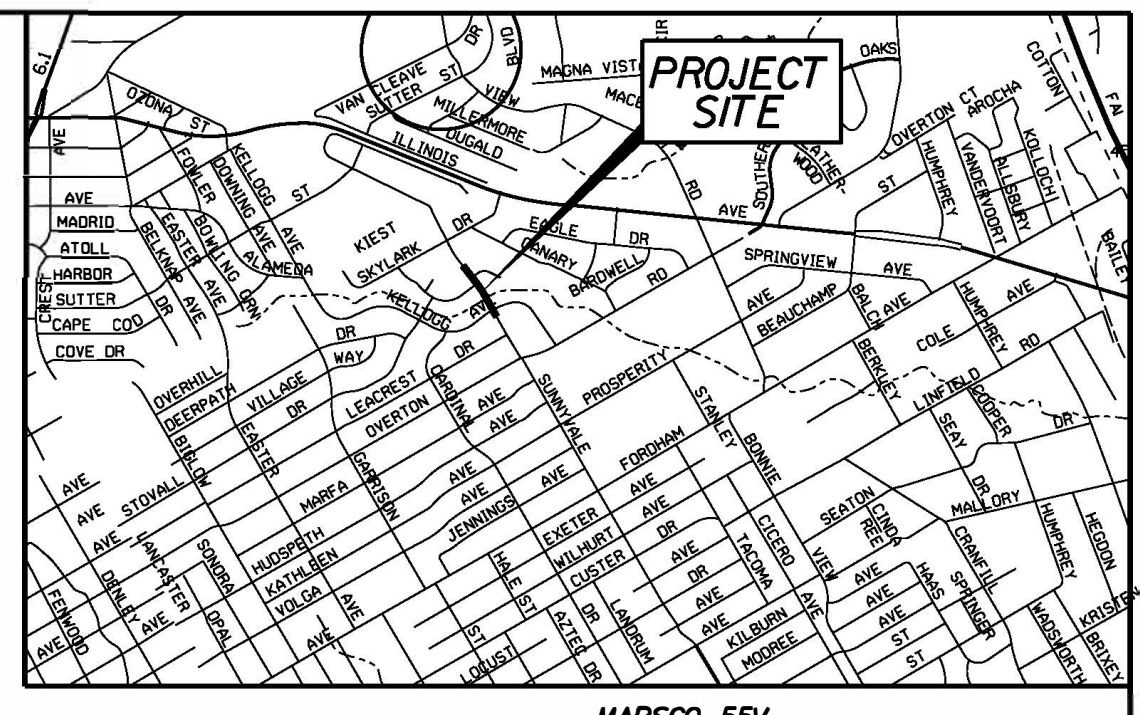
1+80.76 ~ Prop. 8\"/>

0+00.00 ~ Prop. 8\"/>

0+09.5 ~ Prop. 8\"/>

0+56.56 ~ Prop. 8\"/>

0+51.46 ~ Prop. 8\"/>



MAPSCO: 55V

≡ Cut and Plug Killing or Abandoning Existing Water Line. NO SEPARATE PAY ITEM.

**CAUTION ~ TELEPHONE !**  
 Underground Telephone Cables In Area  
 Contact AT&T Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ FIBER OPTIC !**  
 Underground Fiber Optic Cables In Area  
 Contact Fiber Optic Co. Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

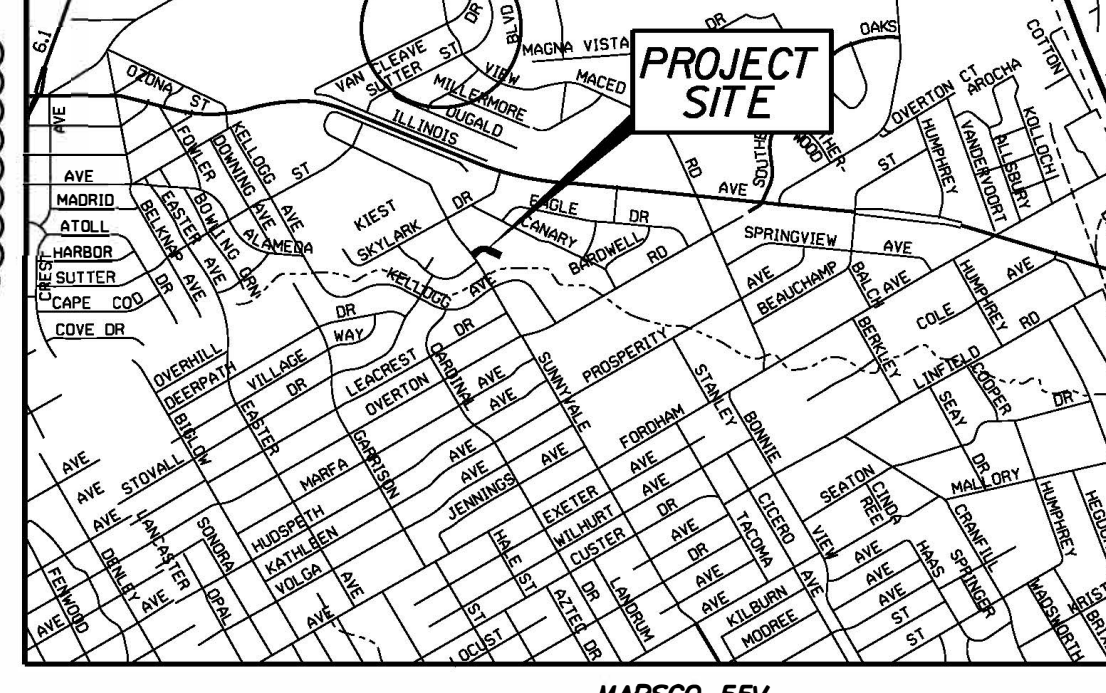
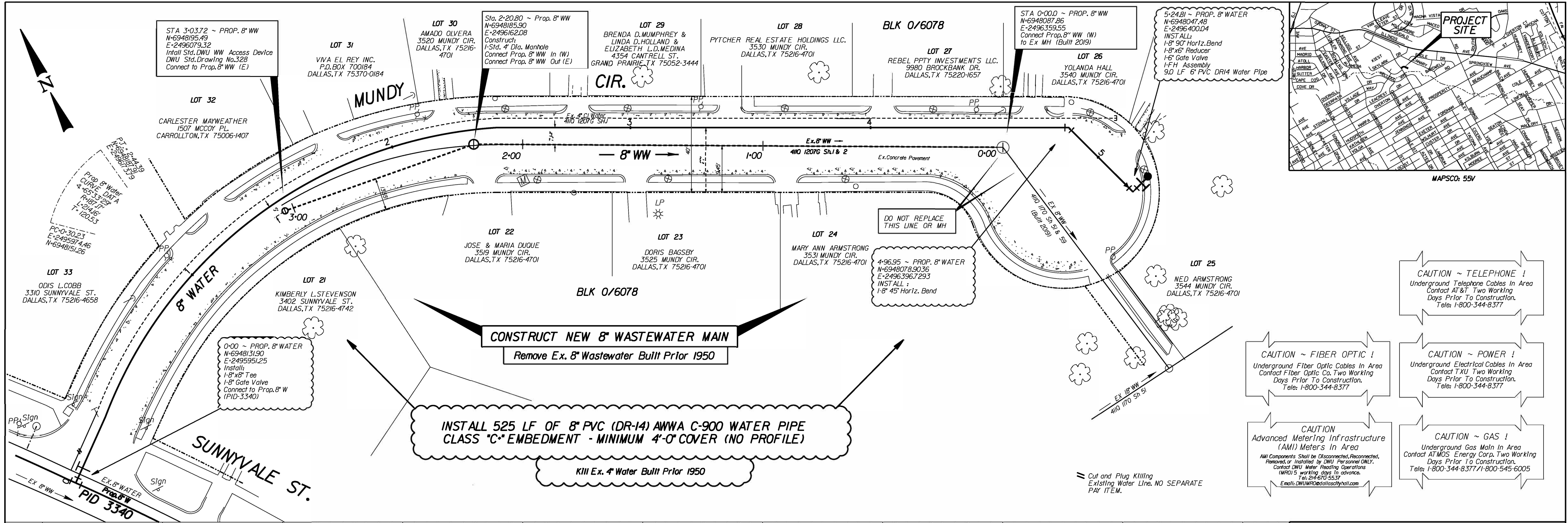
**CAUTION ~ POWER !**  
 Underground Electrical Cables In Area  
 Contact TXU Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact ATMOS Energy Corp. Two Working Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

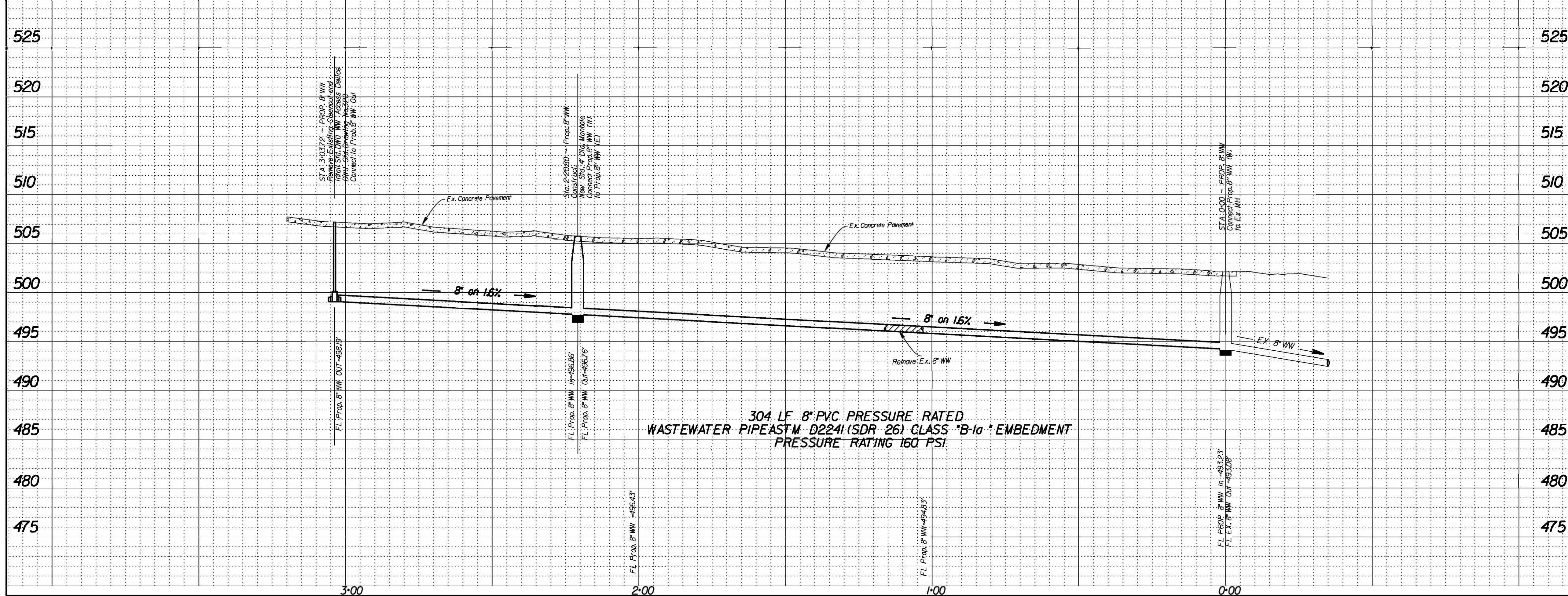
**CAUTION**  
**Advanced Metering Infrastructure (AMI) Meters In Area**  
 AMI Components Shall be Disconnected, Reconnected, Handled, or Installed by DWM Personnel ONLY.  
 Contact DWM Meter Reading Operations  
 (MRO) 5 working days in advance.  
 Tele: 214-691-5537  
 Email: DWMURO@dallaswater.com

REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
<b>BENCHMARKS &amp; CONTROL POINTS</b>					
Point	Northing	Easting	Elev.	Description	
CP-101	6946237.64	2496523.38	510.96	*" SO. CUT	
CP-102	6946132.44	2496187.89	518.76	*" SO. CUT	
CP-103	6946573.43	2495943.51	512.76	*" CUT	
<b>BENCHMARK</b>					
SQUARE CUT ON TOP OF CONCRETE CURB AT THE NORTHWEST CORNER OF THE INTERSECTION OF SUNNYVALE ST. & SUTTER ST.					
<b>ELEVATION + 553.45</b>					
<b>BENCHMARK</b>					
SQUARE CUT ON TOP OF CONCRETE CURB AT THE ENTRANCE TO HOUSE #2604 AS THE SOUTHWEST CORNER OF THE INTERSECTION SKYLARK DR. & CANARY DR.					
<b>ELEVATION + 517.39</b>					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
<b>REFERENCES</b>					
WATER 50-26W, 50-27W					
WASTEWATER 50-26S, 50-27S					
 2M Associates, LLC 5630 Preston View Blvd., Suite A Dallas, TX 75240 TX Reg. Engineering Firm E-1258 PH: 214-663-1177 Fax: 988-589-9182		 Blinkley & Barfield, Inc.   TBPE No. F-287 1801 Gateway Blvd., Ste 101, Richardson, TX 75080 972.644.2800   BlinkleyBarfield.com			
CONTRACT NO. 20-273/274		PID: 3340			
<b>WATER &amp; WASTEWATER MAINS</b>					
<b>SUNNYVALE ST.</b>					
<b>Mundy Dr. To Alley S. Of Lea Crest Dr.</b>					
<b>DALLAS WATER UTILITIES</b>					
<b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
2M	2M	June 2020	411Q	1207	027



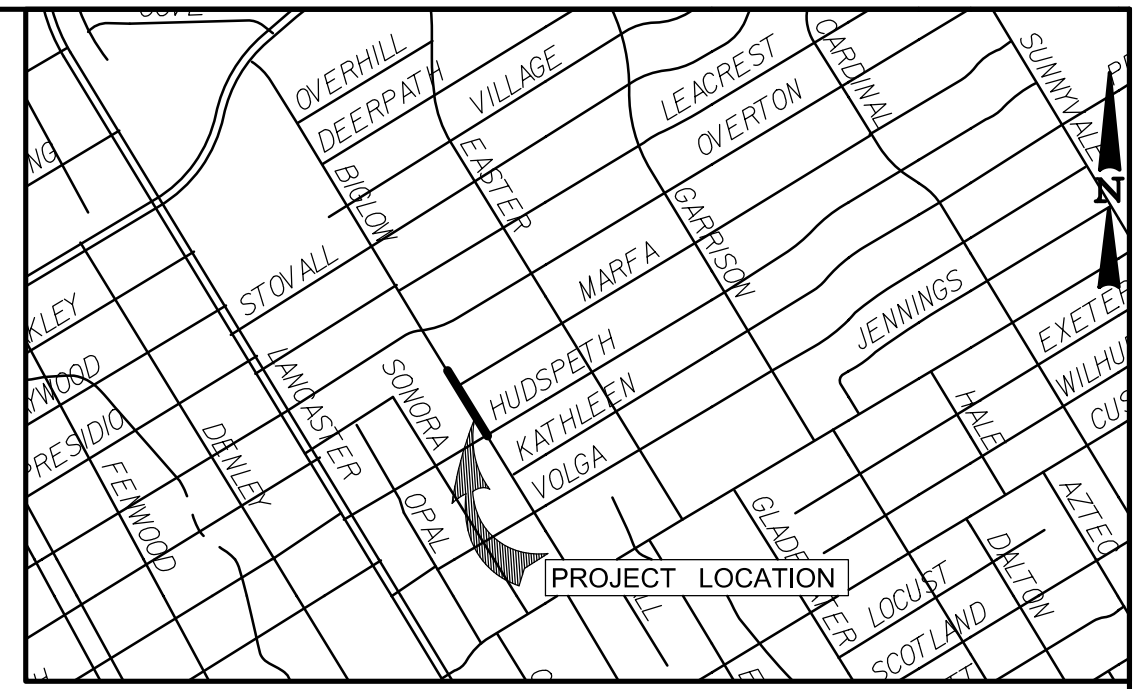
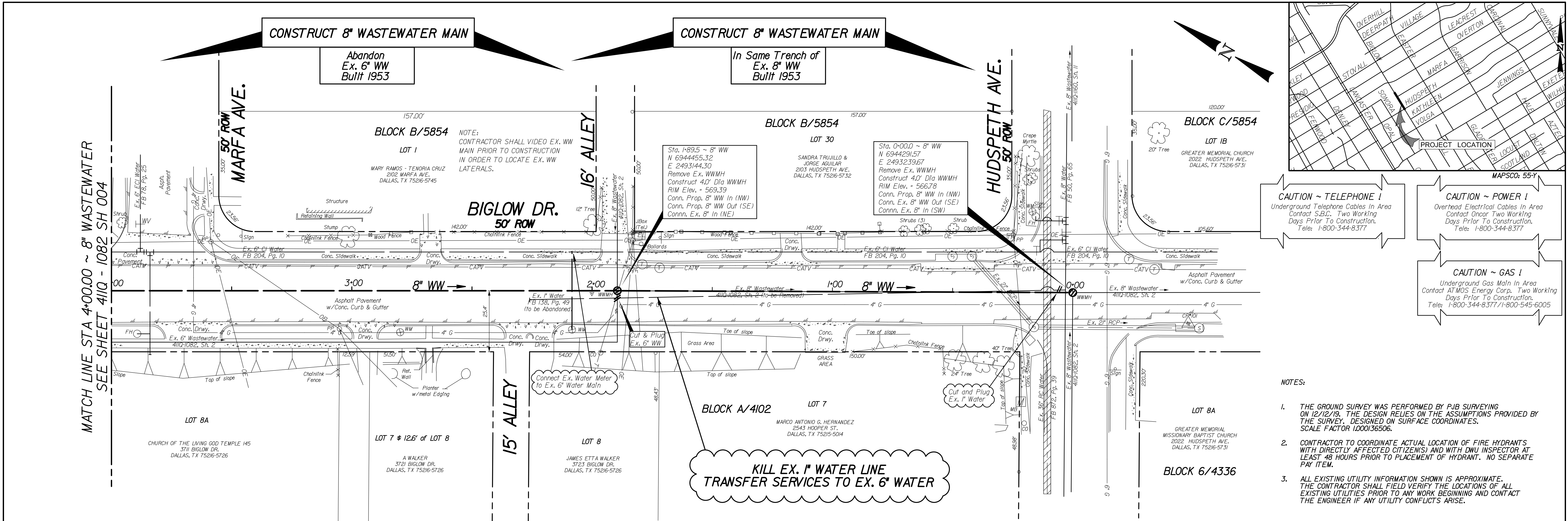


- CAUTION ~ TELEPHONE !  
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Days Prior To Construction.  
Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !  
Underground Fiber Optic Cables In Area  
Contact Fiber Optic Co. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377
- CAUTION ~ POWER !  
Underground Electrical Cables In Area  
Contact AT&T Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377
- CAUTION ~ GAS !  
Underground Gas Main In Area  
Contact AT&T Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377/1-800-545-6005
- CAUTION  
Advanced Metering Infrastructure  
(AMI) Meters In Area  
All Components Shall be Disconnected, Reconnected,  
Removed, or Installed by DMU Personnel ONLY.  
Contact DMU Meter Reading Operations  
(MRO) 5 working days in advance.  
Tel: 214-670-5537  
Email: DMUMRO@dallascityhall.com



REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
525				
BENCHMARKS & CONTROL POINTS				
520	Point	Northing	Easting	Elev. Description
	CP-1	6946237.65	2496523.38	510.96 *X SO CUT
	CP-2	6946132.44	2496187.89	518.76 *X SO CUT
	CP-3	6946450.92	2495999.04	516.38 *X SO CUT
	CP-4	6946573.43	2495943.51	512.76 *X CUT
515	BENCHMARK STANDARD DALLAS WATER UTILITIES BENCHMARK SQUARE CUT ON TOP OF CONCRETE CURB AT THE NORTHWEST CORNER OF THE INTERSECTION OF SUNNYVALE ST. & SUTTER ST. ELEVATION - 553.45			
510	BENCHMARK STANDARD DALLAS WATER UTILITIES BENCHMARK SQUARE CUT ON TOP OF CONCRETE CURB AT THE ENTRANCE TO HOUSE #2604 AS THE SOUTHWEST CORNER OF THE INTERSECTION SKYLARK DR. & CANARY DR. ELEVATION - 517.39			
505	Horizontal Scale: 1" = 20'			
500	Vertical Scale: 1" = 6'			
495	REFERENCES WATER 50-26W WASTEWATER 50-26S			
490	2M Associates, LLC 1801 Parkway Blvd., Suite 101, Richardson, TX 75080 972.641.2600   2MAssociates.com		Blinley & Barfield, Inc.   TPPE No. F 257 1801 Colway Blvd., Ste 101, Richardson, TX 75080 972.641.2600   BlinleyBarfield.com	
485	CONTRACT NO. 20-273/274		PID: 3341	
480	<b>WATER &amp; WASTEWATER MAINS</b>			
480	MUNDY CIRCLE			
475	DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE	NUMBER SHEET
2M	2M	June 2020	411Q	1207 028



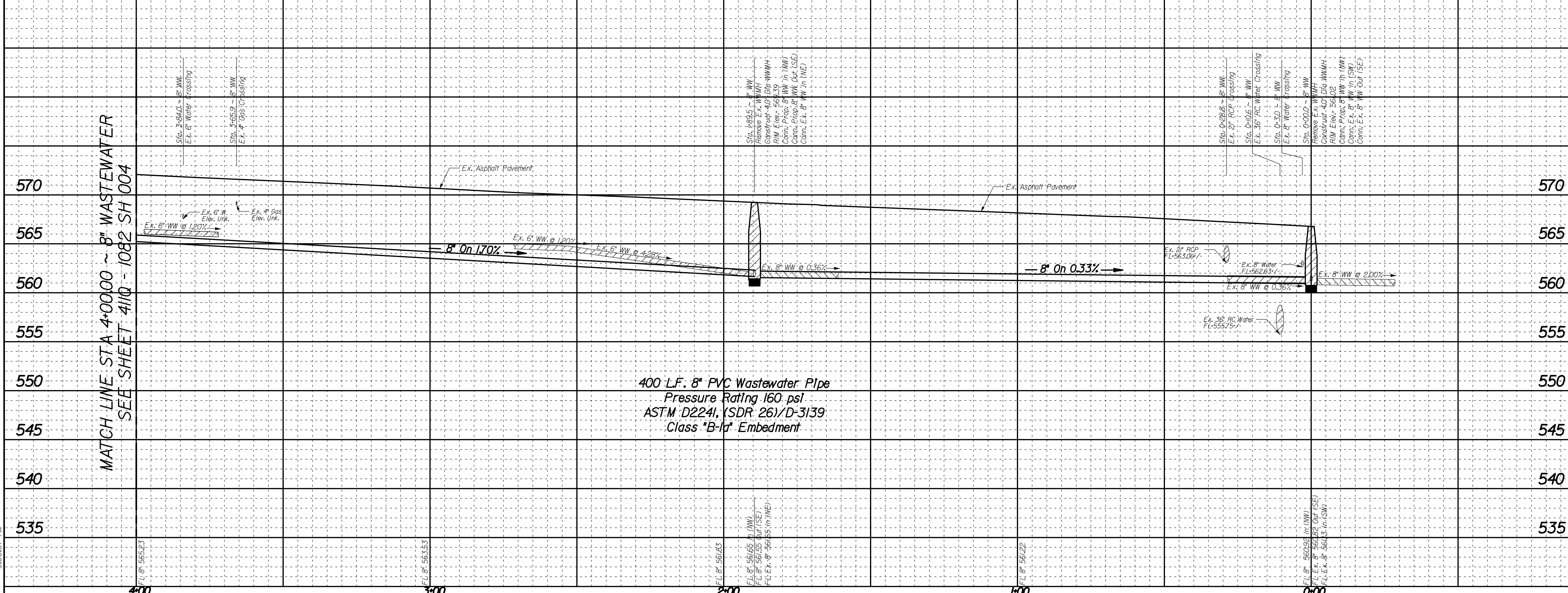


**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
Overhead Electrical Cables In Area Contact Oncor Two Working Days Prior To Construction. Tele: 1-800-344-8377

**CAUTION ~ GAS !**  
Underground Gas Main In Area Contact AT&MS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005

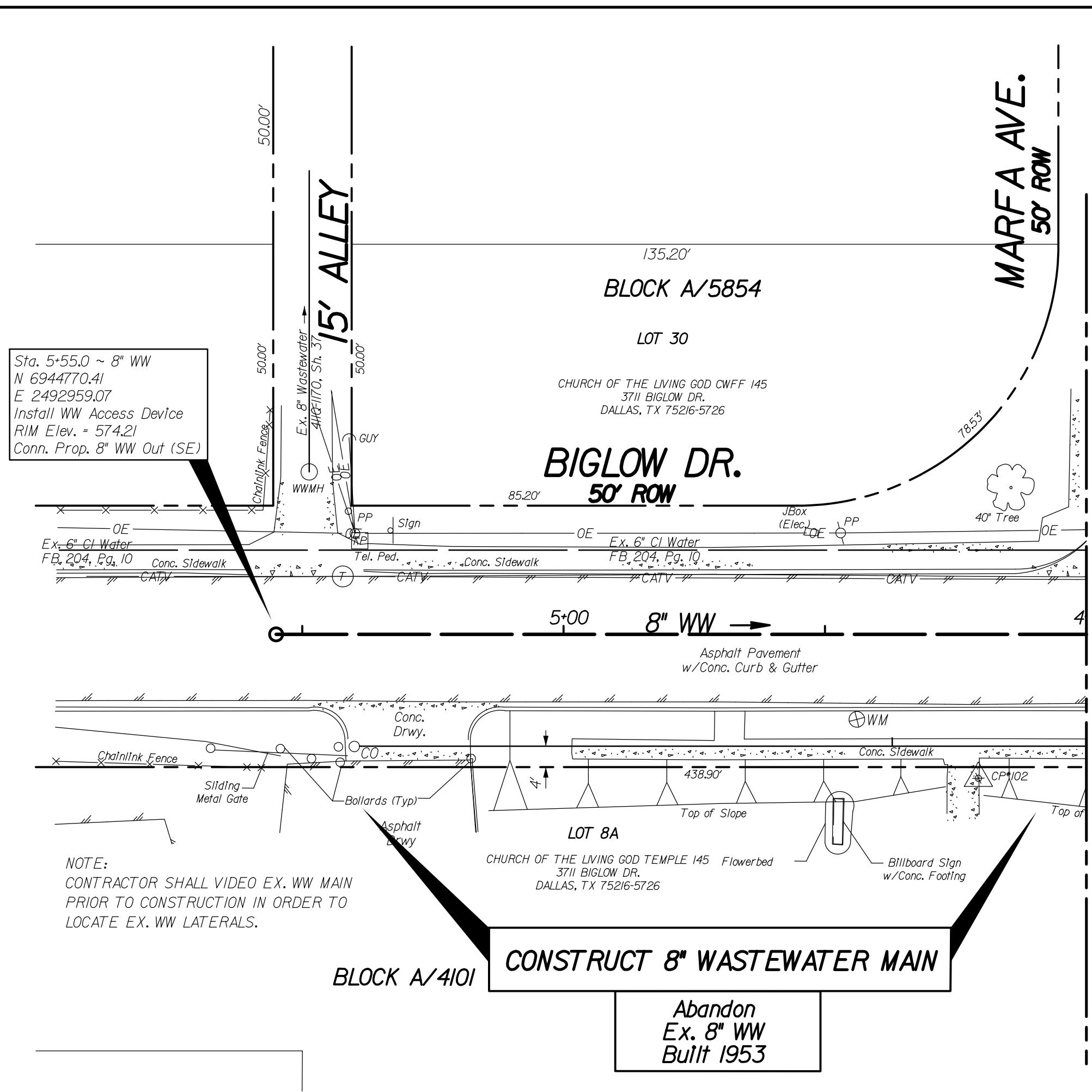
- NOTES:**
- THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON 12/12/19. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON SURFACE COORDINATES. SCALE FACTOR 1000/36506.
  - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DMU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
  - ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING AND CONTACT THE ENGINEER IF ANY UTILITY CONFLICTS ARISE.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
BENCHMARK 55-Z-3 SQUARE CUT ON TOP OF CONCRETE CURB AT THE MIDPOINT AT THE NORTHWEST CORNER OF THE INTERSECTION OF DENLEY DR. AND MAYWOOD AVE. ELEV = 548.94			
BENCHMARK 55-X-2S A STANDARD WATER DEPARTMENT BENCHMARK SET ON THE SOUTHWEST CORNER OF A CONCRETE OVERPASS ON KIEST BLVD. AND 300' EAST OF LANCASTER RD. ELEV = 576.89			
Point	Northing	Easting	Elev. Description
CP-101	6,943,295.784	2,492,912.674	565.83 X-CUT
CP-102	6,943,692.794	2,492,663.196	574.56 X-CUT
Horizontal Scale: 1" = 20'			
Vertical Scale: 1" = 6'			
REFERENCES			
WATER 52-25W			
WASTEWATER 52-25S			
Blinkley & Barfield, Inc.   18PE No. F-257 1801 Gateway Blvd. Ste 101, Richardson, TX 75080 972.644.2800   blinkleybarfield.com		CRIADO	
CONTRACT NO. 20-273/274		PID: 3352	
<b>8" WASTEWATER MAIN</b>			
<b>BIGLOW STREET</b>			
<b>FROM HUDSPETH AVENUE TO NORTHWEST</b>			
<b>DALLAS WATER UTILITIES</b>			
<b>CITY OF DALLAS, TEXAS</b>			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
CRIADO	CRIADO	JUNE 2020	411Q 1082 003

6/17/2020  
5:00:37 AM





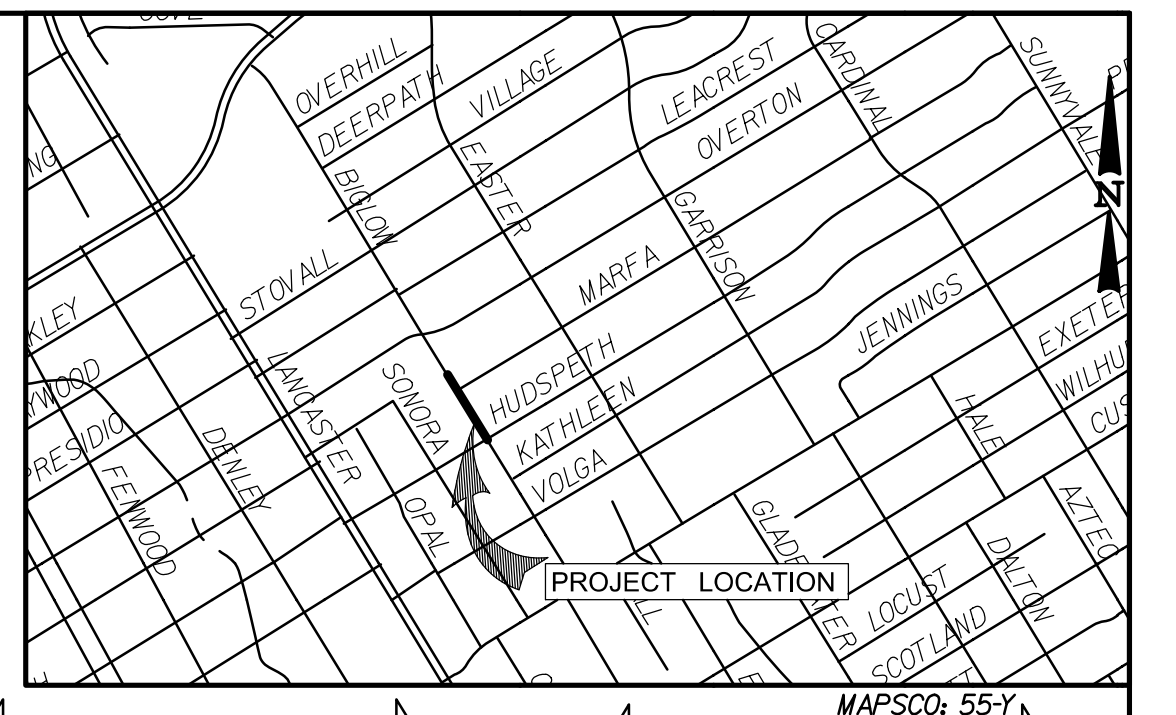
Sta. 5+55.0 ~ 8" WW  
N 6944770.41  
E 2492959.07  
Install WW Access Device  
RIM Elev. = 574.21  
Conn. Prop. 8" WW Out (SE)

NOTE:  
CONTRACTOR SHALL VIDEO EX. WW MAIN  
PRIOR TO CONSTRUCTION IN ORDER TO  
LOCATE EX. WW LATERALS.

**CONSTRUCT 8" WASTEWATER MAIN**

Abandon  
Ex. 8" WW  
Built 1953

MATCH LINE STA 4+00.00 ~ 8" WASTEWATER  
SEE SHEET 411Q - 1082 SH 003

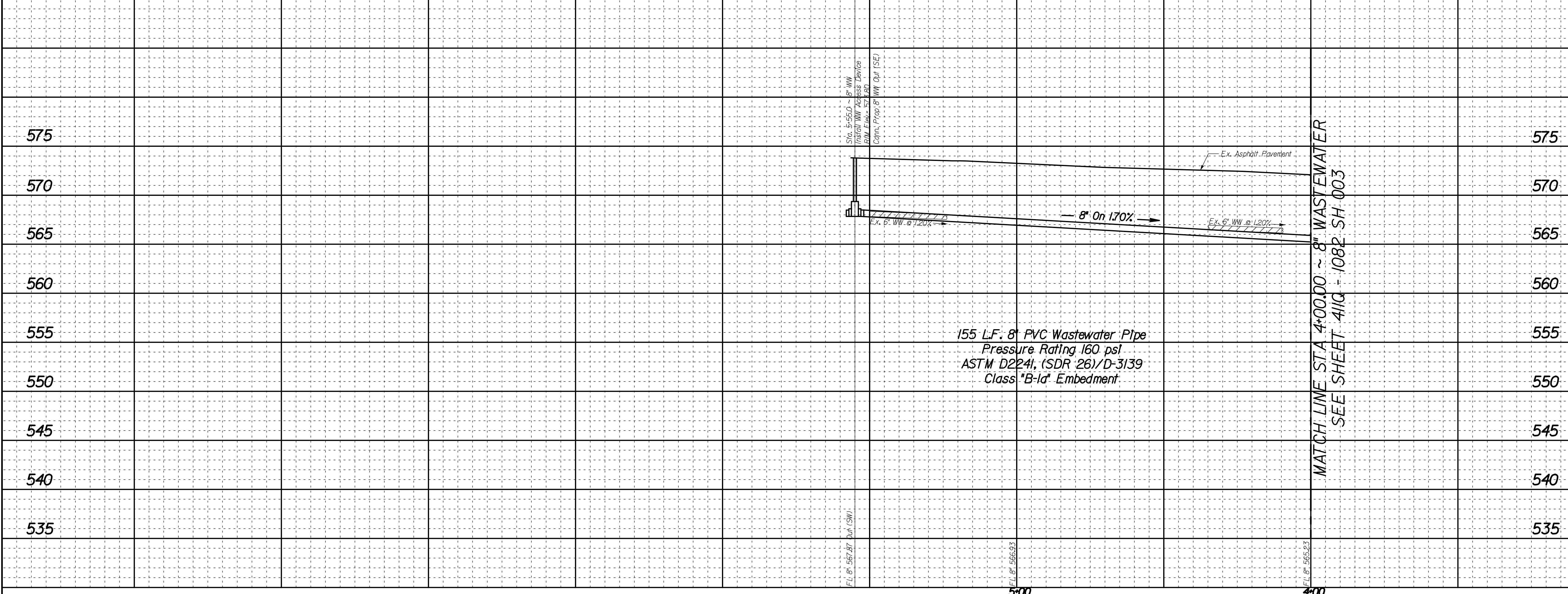


**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables In Area  
Contact S.B.C. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
Overhead Electrical Cables In Area  
Contact Oncor Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377

**NOTES:**

1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON 12/12/19. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY, DESIGNED ON SURFACE COORDINATES. SCALE FACTOR 1000/36506.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DMU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING AND CONTACT THE ENGINEER IF ANY UTILITY CONFLICTS ARISE.



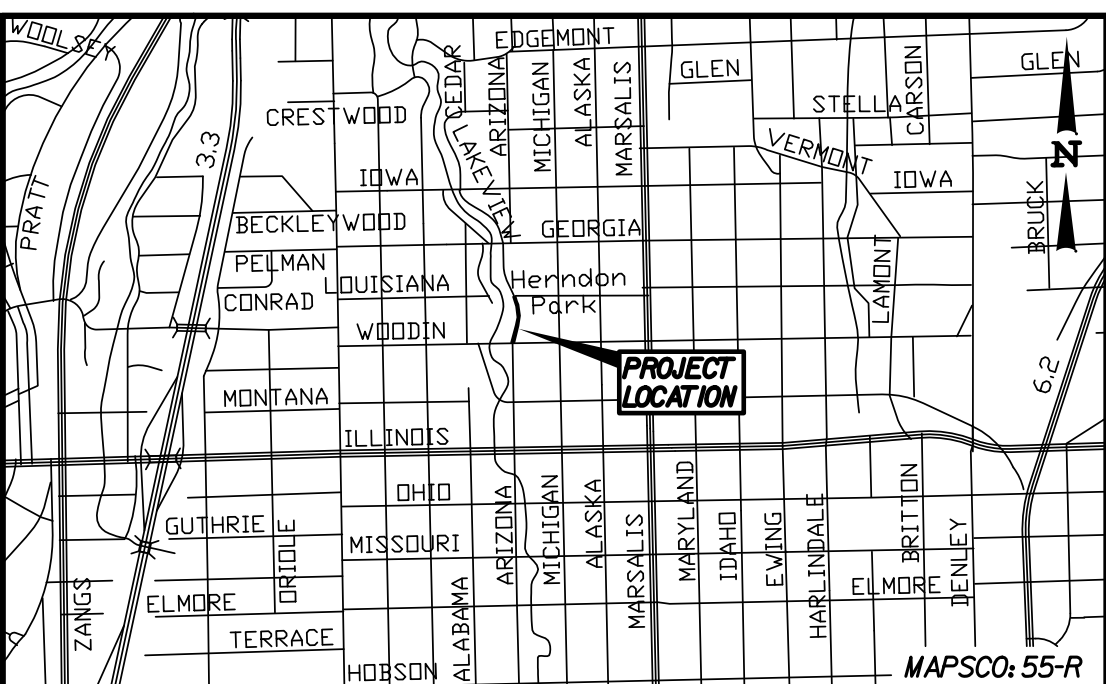
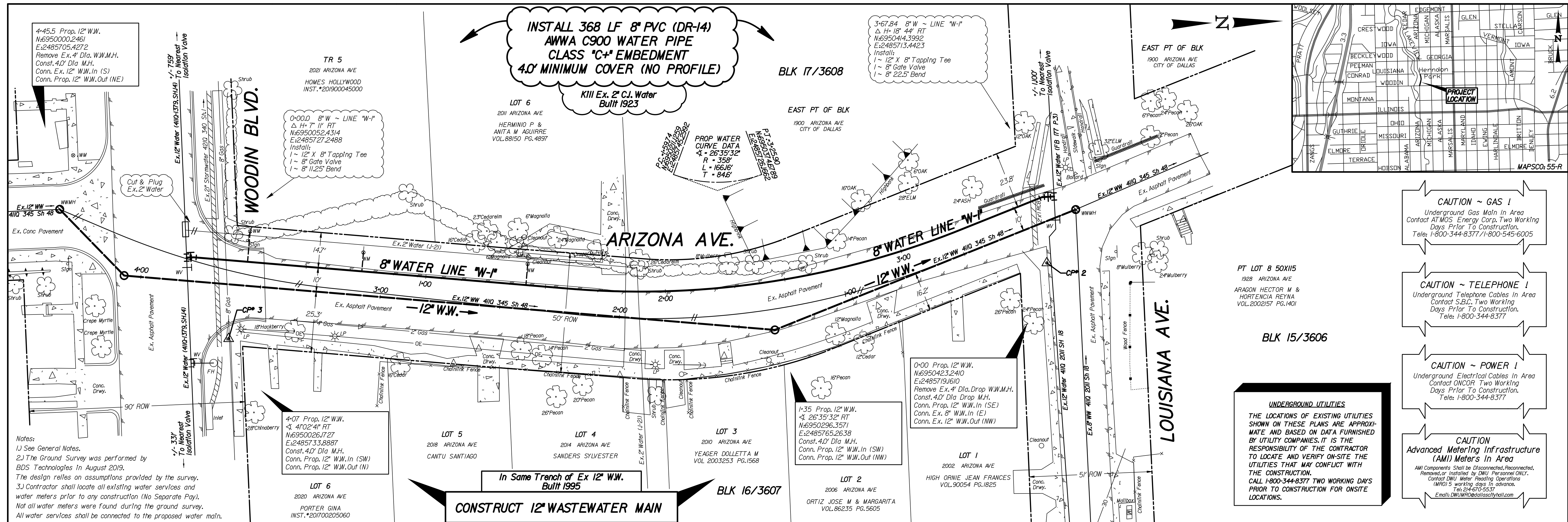
155 L.F. 8" PVC Wastewater Pipe  
Pressure Rating 160 psi  
ASTM D2241, (SDR 26) D-3139  
Class "B-1c" Embedment

MATCH LINE STA 4+00.00 ~ 8" WASTEWATER  
SEE SHEET 411Q - 1082 SH 003

REV. NO.		DATE	REVISIONS		BY
REV. NO.		DATE	DESCRIPTION		BY
<b>BENCHMARKS &amp; CONTROL POINTS</b>					
<b>BENCHMARK 55-Z-3</b> SQUARE CUT ON TOP OF CONCRETE CURB AT THE MIDPOINT AT THE NORTHWEST CORNER OF THE INTERSECTION OF DENLEY DR. AND MAYWOOD AVE. <b>ELEV - 548.94</b>					
<b>BENCHMARK 55-X-2S</b> A STANDARD WATER DEPARTMENT BENCHMARK SET ON THE SOUTHWEST CORNER OF A CONCRETE OVERPASS ON KIEST BLVD. AND 300' EAST OF LANCASTER RD. <b>ELEV - 576.89</b>					
<b>Point</b>	<b>Northing</b>	<b>Easting</b>	<b>Elev.</b>	<b>Description</b>	
CP-101	6,943,295.784	2,492,912.674	565.83	X-CUT	
CP-102	6,943,692.794	2,492,663.196	574.56	X-CUT	
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'			
REFERENCES					
WATER 52-25W					
WASTEWATER 52-25S					
Binkley & Barfield, Inc.   TRPE No. F-257 1801 Gateway Blvd, Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com					
<b>CONTRACT NO. 20-273/274</b>				<b>PID: 3352</b>	
<b>8" WASTEWATER MAIN</b>					
<b>BIGLOW STREET</b>					
<b>FROM HUDSPETH AVENUE TO NORTHWEST</b>					
<b>DALLAS WATER UTILITIES</b>					
<b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
CRIADO	CRIADO	JUNE 2020	411Q	1082	004

6/17/2020 5:01:53 AM





**CAUTION ~ GAS !**  
Underground Gas Main in Area  
Contact AT&T Energy Corp. Two Working Days Prior To Construction.  
Tele: 1-800-344-8377 / 1-800-545-6005

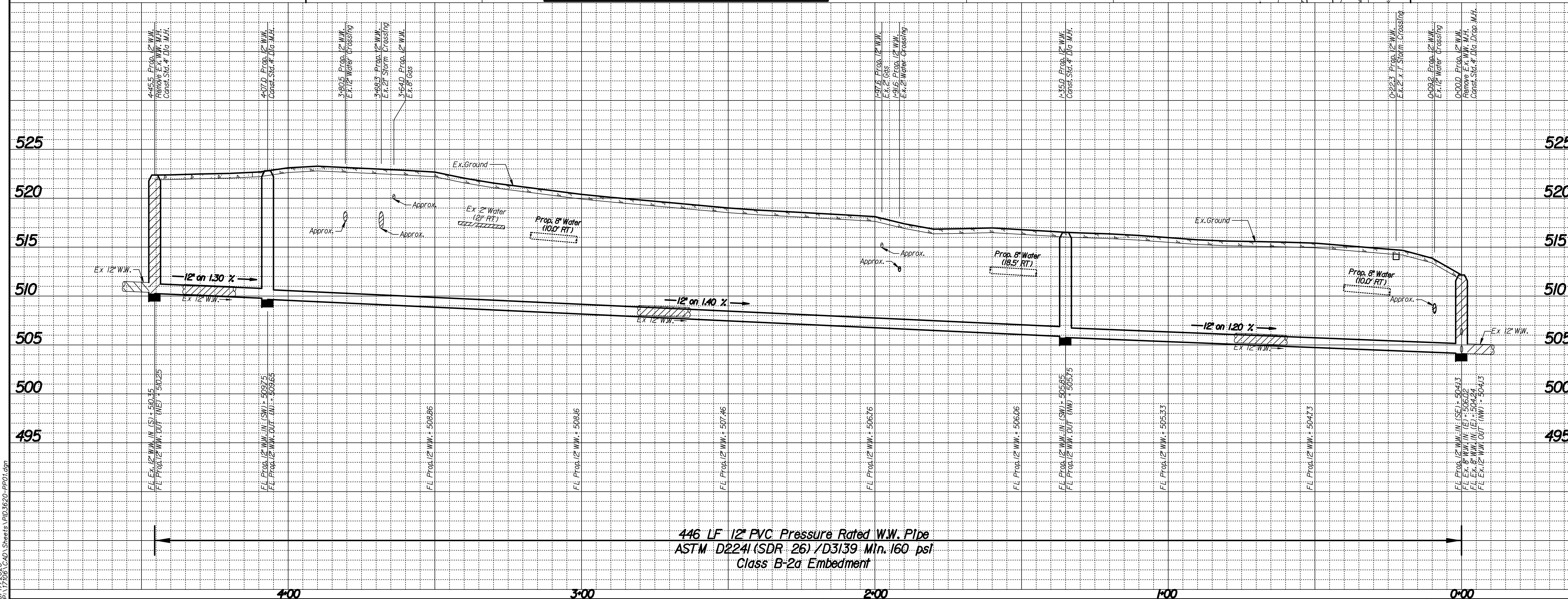
**CAUTION ~ TELEPHONE !**  
Underground Telephone Cables in Area  
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Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
Underground Electrical Cables in Area  
Contact ONCOR Two Working Days Prior To Construction.  
Tele: 1-800-344-8377

**CAUTION**  
Advanced Metering Infrastructure (AMI) Meters in Area  
All Components Shall be Disconnected, Reconnected, Removed, or Installed by DWU Personnel ONLY.  
Contact DWU Meter Reading Operations (MRO) 5 working days in advance.  
Tel: 214-670-5537  
Email: DWUMRO@dallaswater.com

**UNDERGROUND UTILITIES**  
THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.  
CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

**Notes:**  
1.) See General Notes.  
2.) The Ground Survey was performed by BDS Technologies in August 2019. The design relies on assumptions provided by the survey.  
3.) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay). Not all water meters were found during the ground survey. All water services shall be connected to the proposed water main.



REV. NO.	DATE	DESCRIPTION	BY
1			
2			

**BENCHMARKS & CONTROL POINTS**

**CONTROL POINT \*2**  
X-CUT SENT IN CONCRETE S/WALK AT THE SOUTHEAST CORNER OF LOUISIANA AVE AND ARIZONA AVE +/- 25 FEET SOUTHEAST OF A WASTEWATER MANHOLE.  
N: 6950410.505, E: 2485741028, ELEV = 514.68'

**CONTROL POINT \*3**  
X-CUT SENT IN CONCRETE S/WALK AT THE NORTHEAST CORNER OF WOODIN BLVD AND ARIZONA AVE +/- 30 FEET NORTHWEST OF A STORM INLET.  
N: 6950068.834, E: 2485761603, ELEV = 523.67'

Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 6'

REFERENCES  
WATER 48 - 23 W  
WASTEWATER 48 - 23 S

**STATE OF TEXAS**  
M.D. SHAMSUL AREFIN  
83867  
LICENSED PROFESSIONAL ENGINEER  
6/17/2020

**Binkley & Barfield, Inc.** | TBPE No. F-257  
1801 Gateway Blvd. Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

**STREAM WATER GROUP, INC.**  
ENGINEERS & PLANNERS  
8401 LBJ Fwy., Suite 104  
Dallas, TX 75243  
Phone: 202-342-8076, TX Registration No. F-005680

**CONTRACT NO. 20-273/274** | **PID: 3620**

**8" WATER & 12" WASTEWATER MAIN**  
**ARIZONA AVENUE**  
**FROM WOODIN BLVD. TO LOUISIANA AVE.**  
**DALLAS WATER UTILITIES**  
**CITY OF DALLAS, TEXAS**

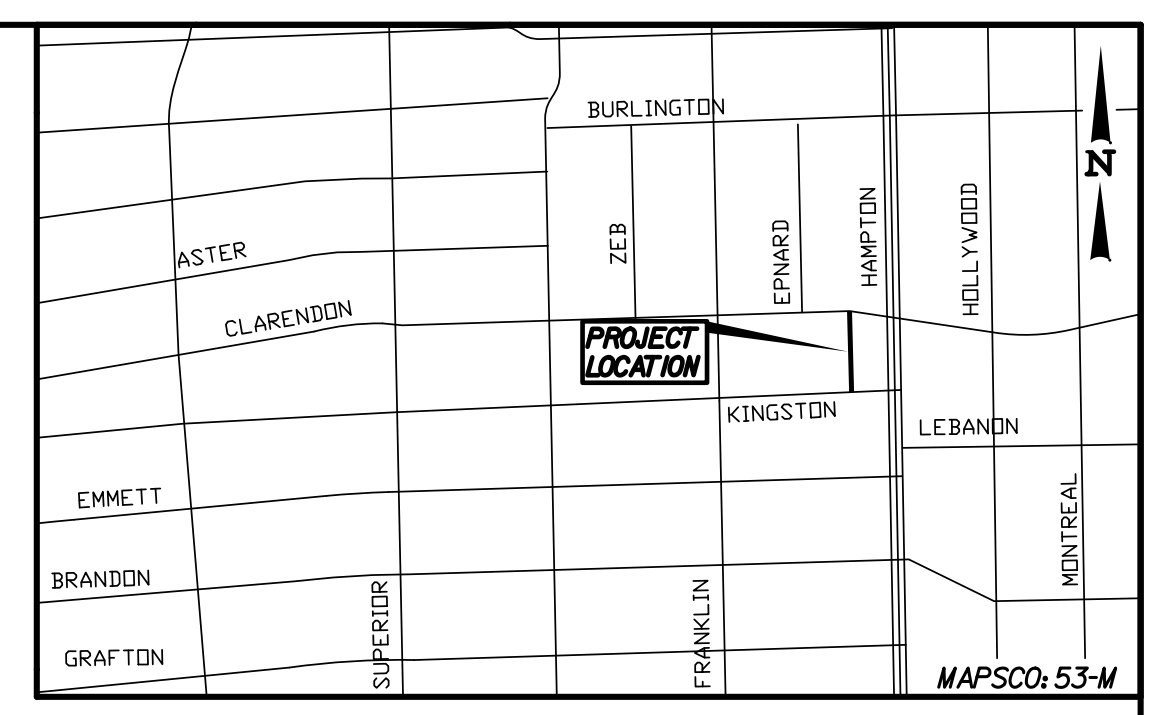
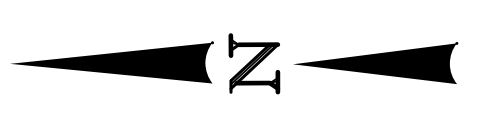
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
SWG	SWG	June 2020	411Q	2011	067

6/17/2020 CAD:Shives\1203620\_PWD.dwg



**INSTALL 147 LF 4" PVC (DR-14)  
AWWA C900 WATER PIPE  
CLASS "C+" EMBEDMENT  
4.0' MINIMUM COVER (NO PROFILE)**

*KIII Ex. 4" ECI Water  
Built Prior to 1970*

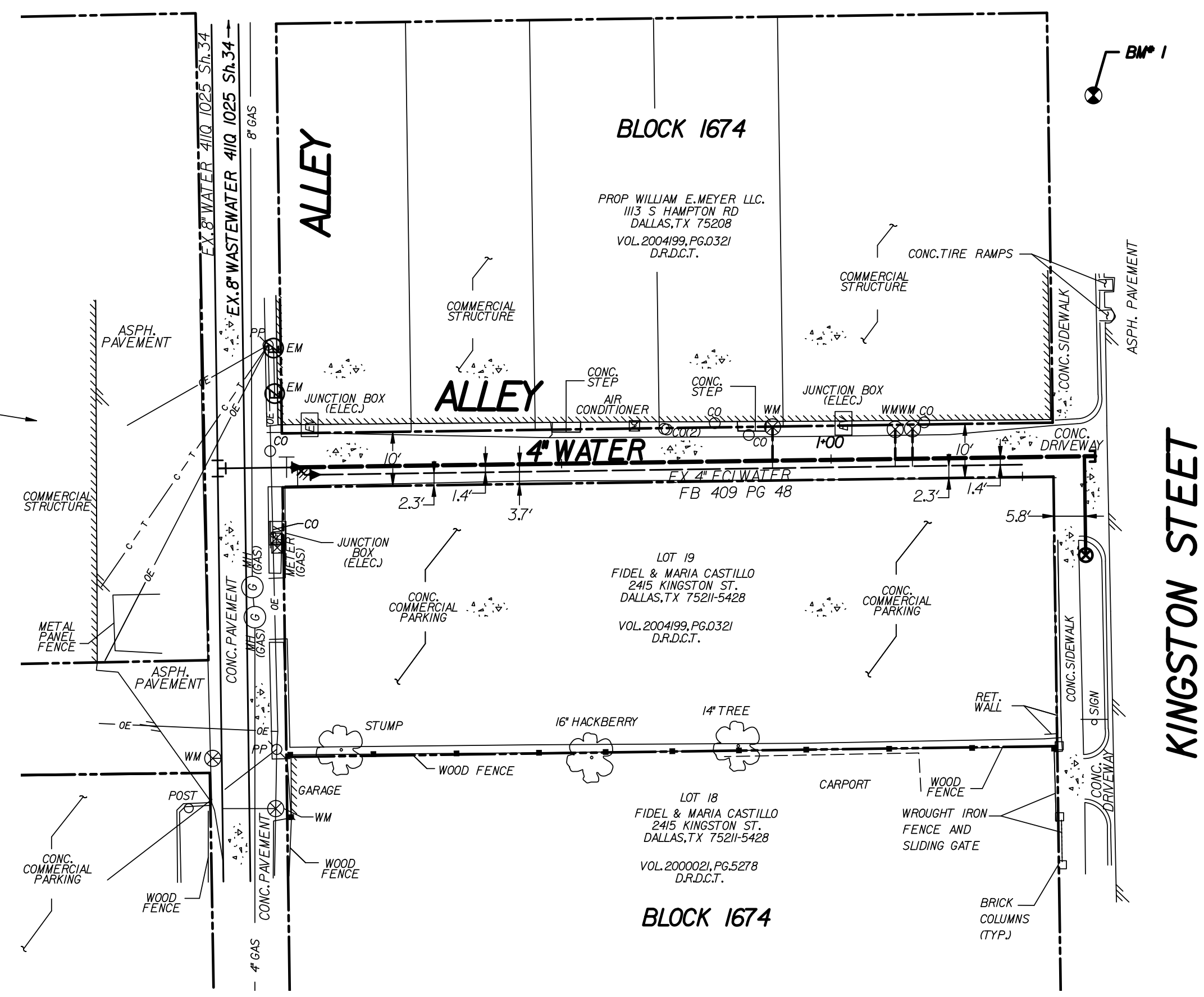


**BLOCK 1674**  
TR 29  
MIDWAY AUTO SUPPLY  
PROFIT SHARING PLAN  
102 S HAMPTON RD  
DALLAS, TX 75201  
INST. NO. 20160015595  
D.R.D.C.T.

0'-00.0 Prop. 4" Water  
N: 69550301880  
E: 24739291294  
Remove Ex. 8" 45° Bend  
Install:  
1 - 8" X 4" Reducer  
Conn. to Ex. 8" Water

TR 26J  
2418 CLARENDON DRIVE, LLC.  
6336 GREENVILLE AVE STE C  
DALLAS, TX 75201-1303  
INST. NO. 20140030347  
D.R.D.C.T.

**BLOCK 1/3770**



1'-47.0 Prop. 4" Water  
N: 69548822024  
E: 24739312016  
Install:  
1 - 4" Plug  
1 - 2" Manual Flush Point  
As Per DWU Std. Dwg. #207

**BLOCK 8/3773**  
LOT 1  
WILLIAM E. MEYER PROP. LLC.  
113 S HAMPTON RD  
DALLAS, TX 75208  
VOL. 200499, PG. 0321  
D.R.D.C.T.

**BLOCK 8/3773**  
LOT 6  
ANTONIO C. ZARRAGA  
2410 KINGSTON ST.  
DALLAS, TX 75201-5427  
INST. NO. 20070334378  
D.R.D.C.T.

**BLOCK 8/3773**  
LOT 7  
ANTONIO C. ZARRAGA  
2410 KINGSTON ST.  
DALLAS, TX 75201-5427  
INST. NO. 20070334378  
D.R.D.C.T.

**UNDERGROUND UTILITIES**  
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**CAUTION ~ TELEPHONE !**  
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Tele: 1-800-344-8377

**CAUTION ~ POWER !**  
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Email: DWUMRO@cityofdallas.com

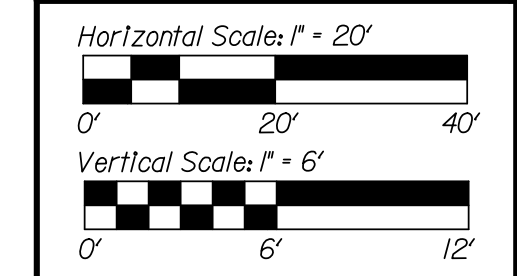
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			
2			

**BENCHMARKS & CONTROL POINTS**

**CONTROL POINT #101**  
A SQUARE CUT WITH 'Y' SET ON BACK OF CURB ON THE SOUTH SIDE OF KINGSTONE STREET AT PC TO DRIVEWAY TO 2410 KINGSTON STREET.  
N: 6953899799, E: 2473571218, ELEV = 584.47

**CONTROL POINT #102**  
A SQUARE CUT WITH 'X' SET ON BACK OF CURB AT CENTER OF CURB INLET ON THE EAST SIDE OF HAMPTON ROAD, IN PROJECTED CENTERLINE OF KINGSTON ROAD.  
N: 6953916801, E: 2473761865, ELEV = 579.99

**BENCHMARK #1**  
A SQUARE CUT WITH 'X' SET ON BACK OF CURB AT CENTER OF CURB INLET AT THE NORTHWEST CORNER OF HAMPTON ROAD & KINGSTON ST.  
N: 6953932269, E: 2473660465, ELEV = 582.24'



REFERENCES	
WATER	46 - 19 W
WASTEWATER	46 - 19 S

**Binkley & Barfield, Inc.** | TBPE No. F-257  
1801 Gateway Blvd. Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

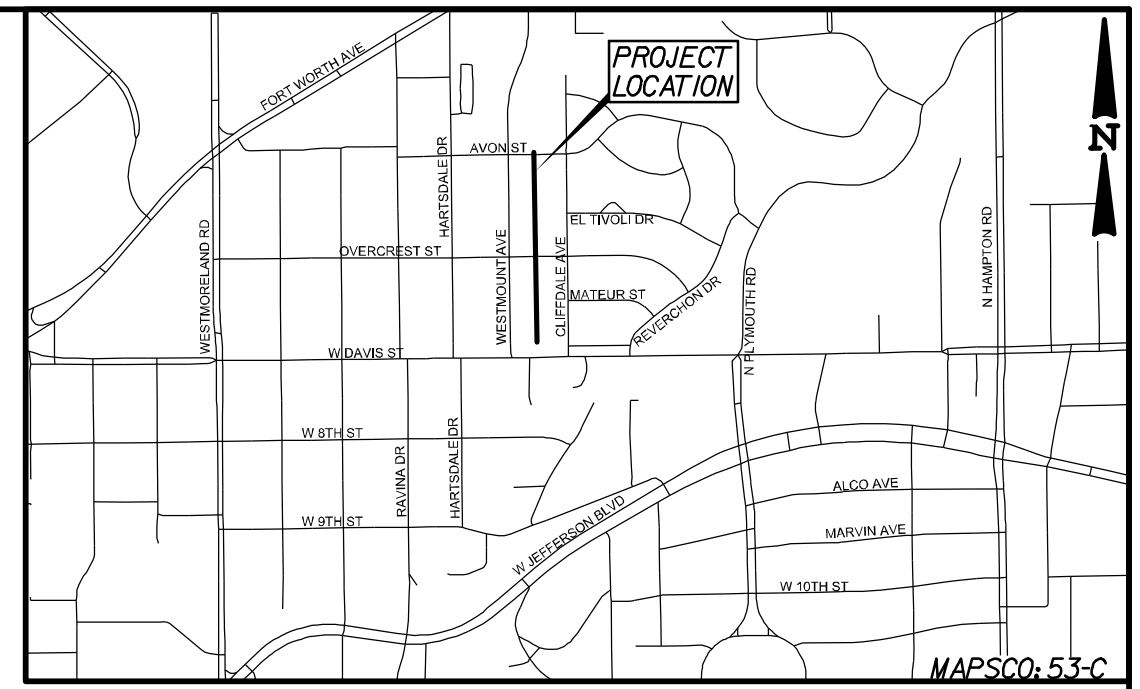
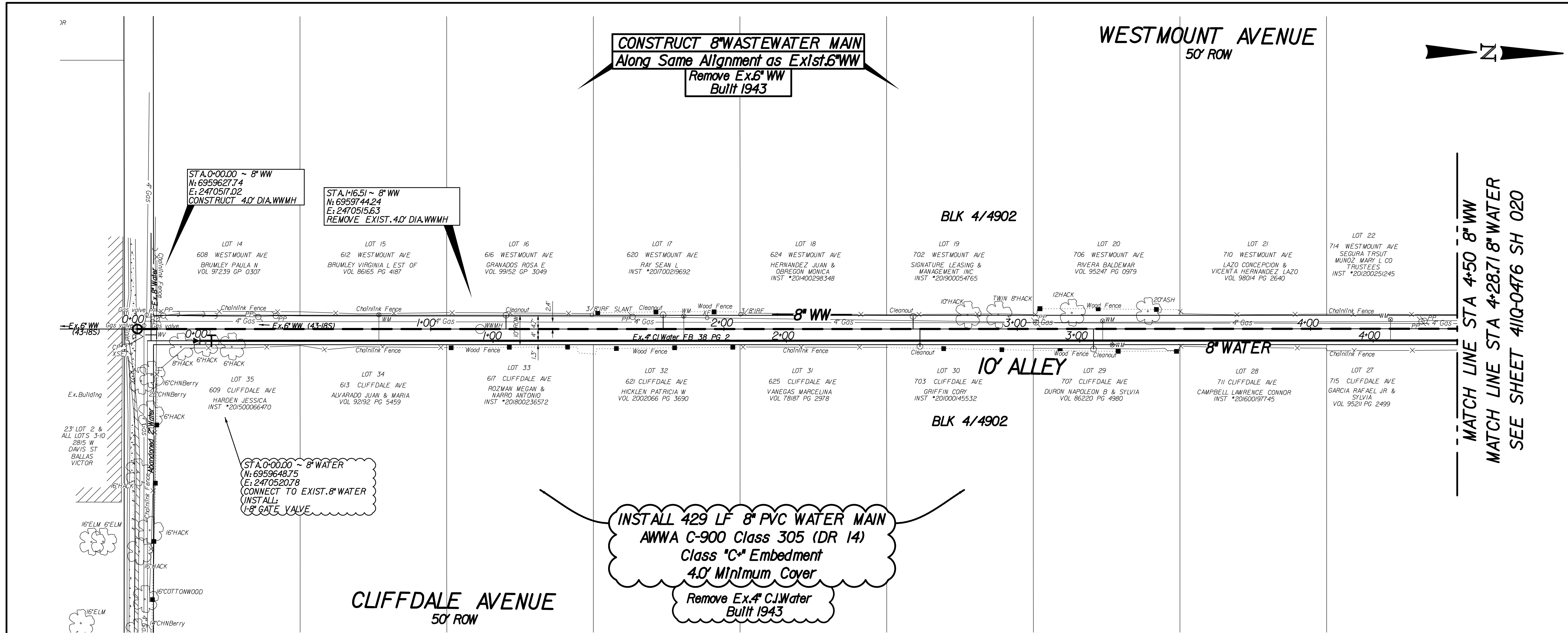
**STREAM WATER GROUP, INC.**  
ENGINEERS & PLANNERS  
8401 LBJ Fwy., Suite 104  
Dallas, TX 75243  
Phone: 202-442-8070, TX Registration No. F-005488

<b>CONTRACT NO. 20-273/274</b>		<b>PID: 4236</b>		
<b>4" WATER MAIN</b>				
<b>ALLEY WEST OF HAMPTON ROAD</b>				
<b>FROM KINGSTON STREET NORTH</b>				
<b>DALLAS WATER UTILITIES</b>				
<b>CITY OF DALLAS, TEXAS</b>				
DESIGN	DRAWN	DATE	FILE NUMBER	SHEET
SWG	SWG	June 2020	411Q 1025	035

Notes:  
1.) See General Notes.  
2.) The Ground Survey was performed by PJB Surveying, LLC. in January 2020.  
The design relies on assumptions provided by the survey.  
3.) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay).  
Not all water meters were found during the ground survey.  
All water services shall be connected to the proposed water main.

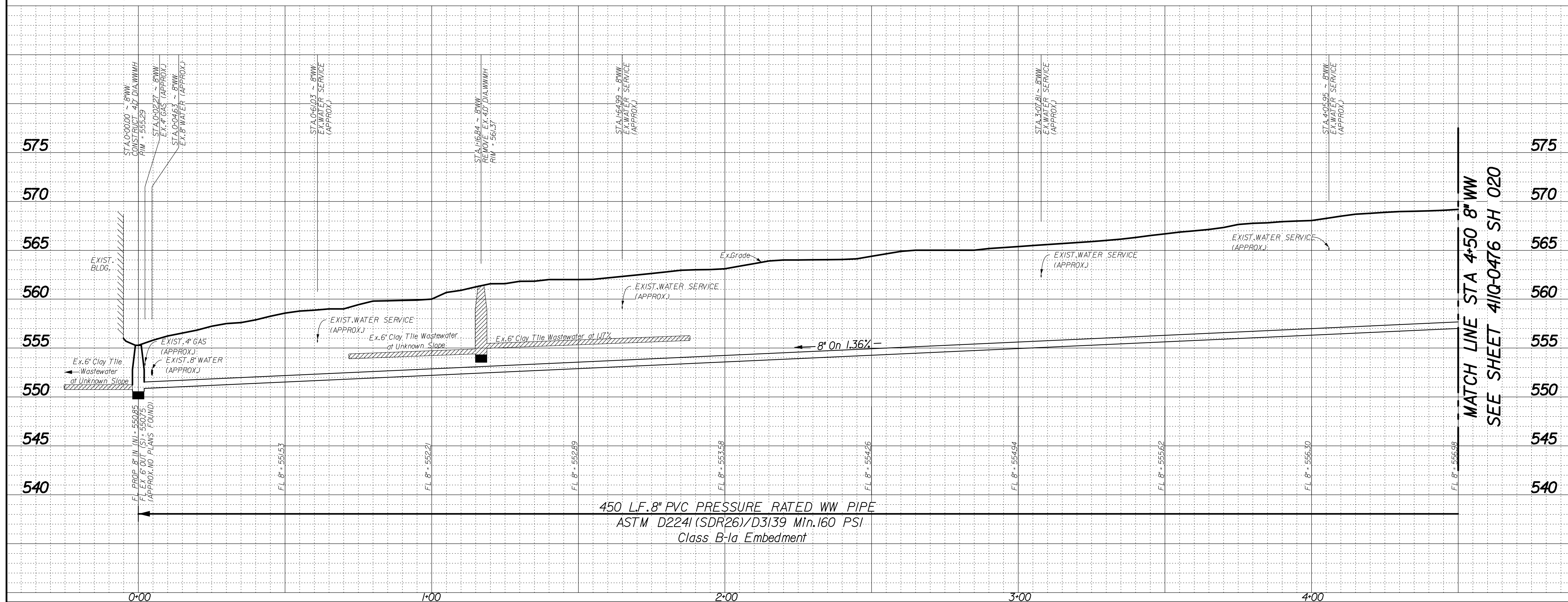
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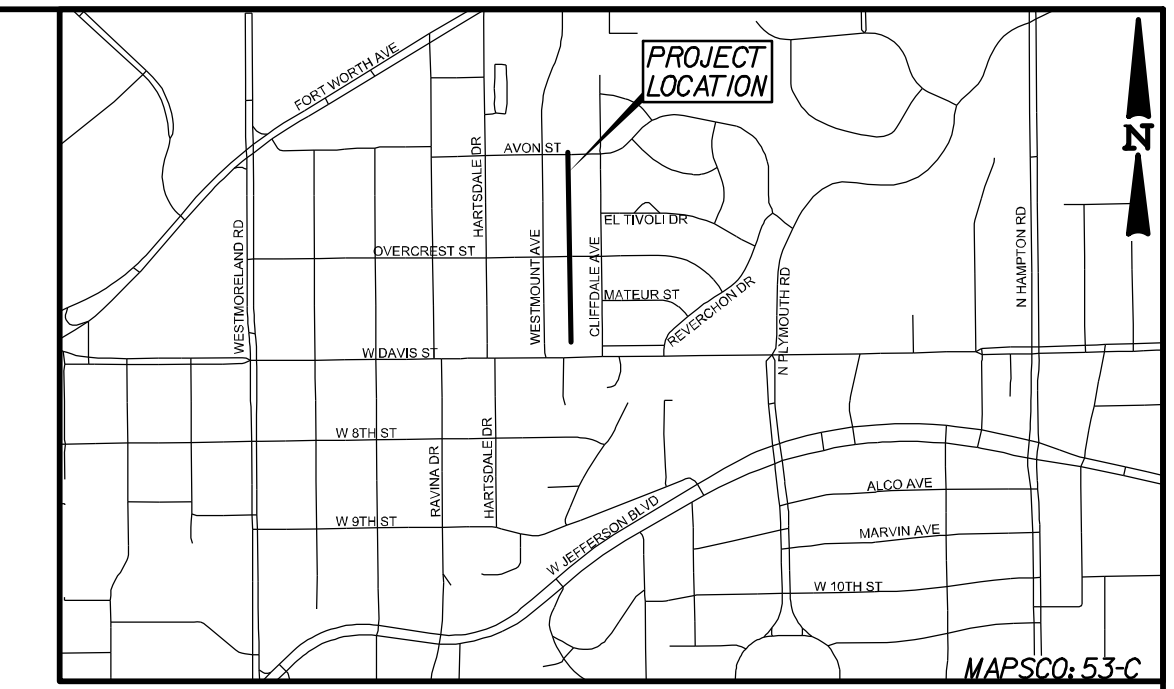
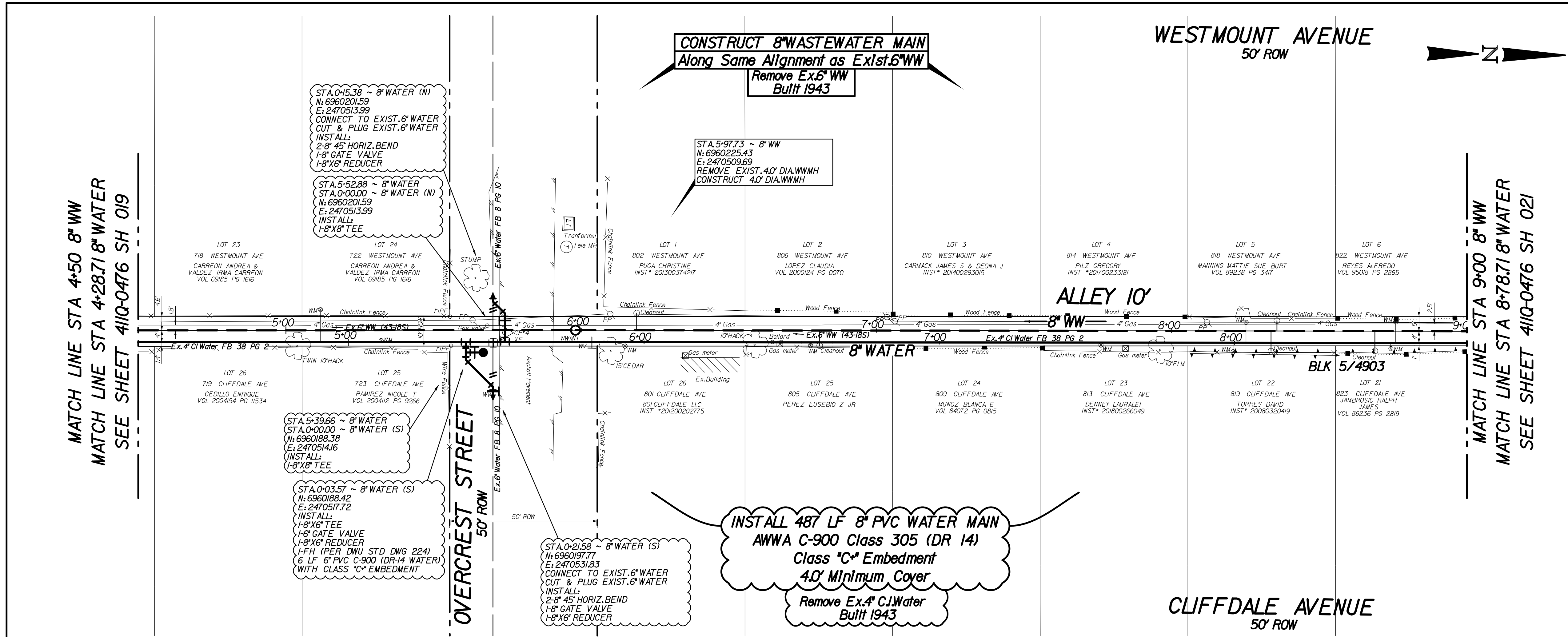
**CAUTION ~ GAS !**  
Underground Gas Main In Area  
Contact ATMOS Energy Corp. Two Working  
Days Prior To Construction.  
Tele: 1-800-344-8377 / 1-800-545-6005

**NOTES:**  
1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES ON NOVEMBER 6, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. VALUES DESIGN AND CONTROL COORDINATES ARE GRID VALUES.  
2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DNU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
3. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING. CONTACT ENGINEER IF CONFLICTS ARISE.



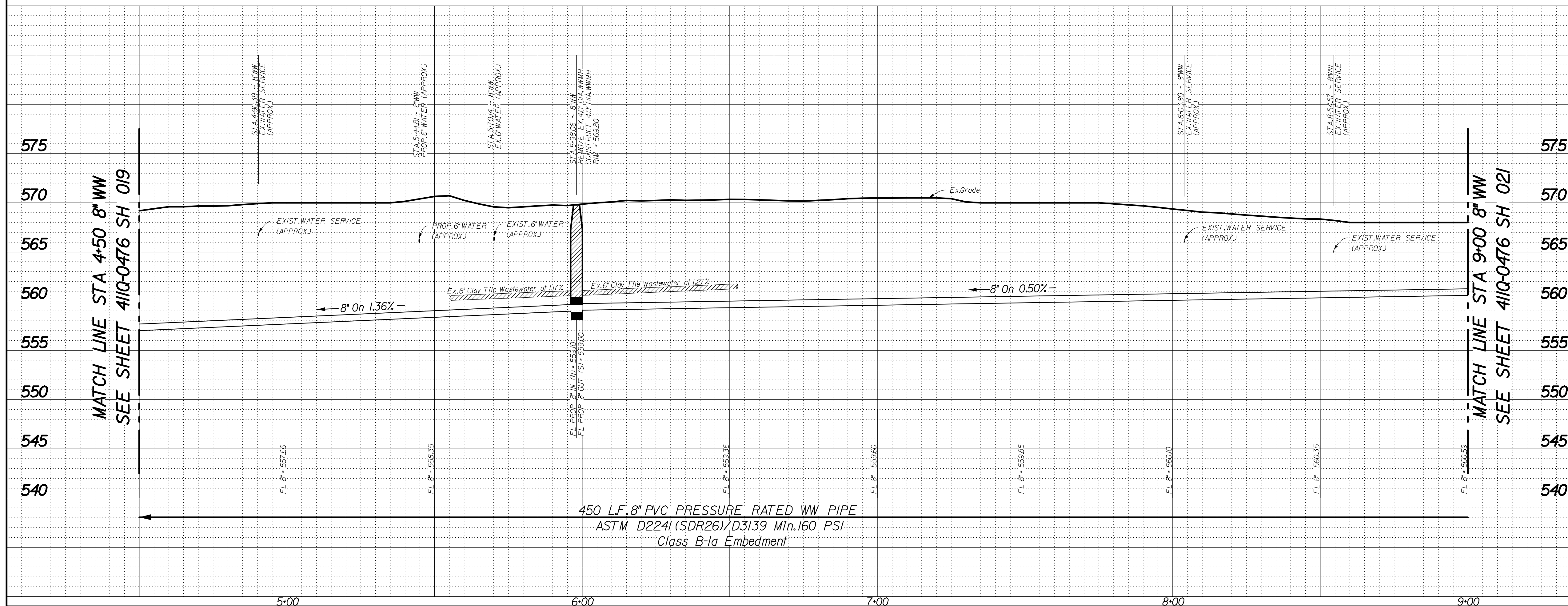
REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
<b>BENCHMARK &amp; CONTROL POINTS</b>				
BM C02 STD WDBM ON SOUTH CONCRETE CURB OF WOODIN BLVD AT 100 FT EAST OF THE CENTERLINE OF MARSHALL AVE ELEV=574.36				
BM C03 STD WDBM ON SOUTH CONCRETE CURB OF VERMONT AVE. AT 100 FT EAST OF THE CENTERLINE OF MARSHALL AVE ELEV=560.40				
Point	Northing	Easting	Elev.	Description
CP 3	6959626.32	2470519.54	555.62	X-CUT
CP 4	6960201.33	2470510.83	569.49	X-CUT
CP 5	6960919.42	2470501.80	574.48	X-CUT
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 				
 <b>Antonio S. Romo II</b> REGISTERED PROFESSIONAL ENGINEER 6/22/20				
<b>REFERENCES</b> WATER 43-18W WASTEWATER 43-18S				
<b>Binkley Barfield</b> Consulting Engineers Binkley & Barfield, Inc.   TxEng F-257 1801 Gateway Blvd. Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com				
<b>CONTRACT NO. 20-273/274</b>   <b>PID: 4177</b>				
<b>8" WATER &amp; 8" WASTEWATER</b> <b>ALLEY BETWEEN WESTMONT &amp; CLIFFDALE</b> <b>FROM AVON STREET SOUTH</b> <b>DALLAS WATER UTILITIES</b> <b>CITY OF DALLAS, TEXAS</b>				
DESIGN	DRAWN	DATE	FILE	NUMBER SHEET
BBI	BBI	JUNE 2020	41IQ	0476 019





**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact AT&M Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

NOTES:  
 1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES ON NOVEMBER 6, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. VALUES DESIGN AND CONTROL COORDINATES ARE GRID VALUES.  
 2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DNU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
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REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1				
2				

BENCHMARKS & CONTROL POINTS				
BENCHMARK BM CDD: STD WDBM ON SOUTH CONCRETE CURB OF WOODIN BLVD AT 100 FT EAST OF THE CENTERLINE OF MARSHALL AVE. ELEV=574.36				
BENCHMARK BM CDD: STD WDBM ON SOUTH CONCRETE CURB OF VERMONT AVE. AT 100 FT EAST OF THE CENTERLINE OF MARSHALL AVE. ELEV=560.40				
Point	Northing	Easting	Elev.	Description
CP 3	6959626.32	2470519.54	555.62	X-CUT
CP 4	6960201.33	2470510.83	569.49	X-CUT
CP 5	6960919.42	2470501.80	574.48	X-CUT

REFERENCES	
WATER	43-18W
WASTEWATER	43-18S

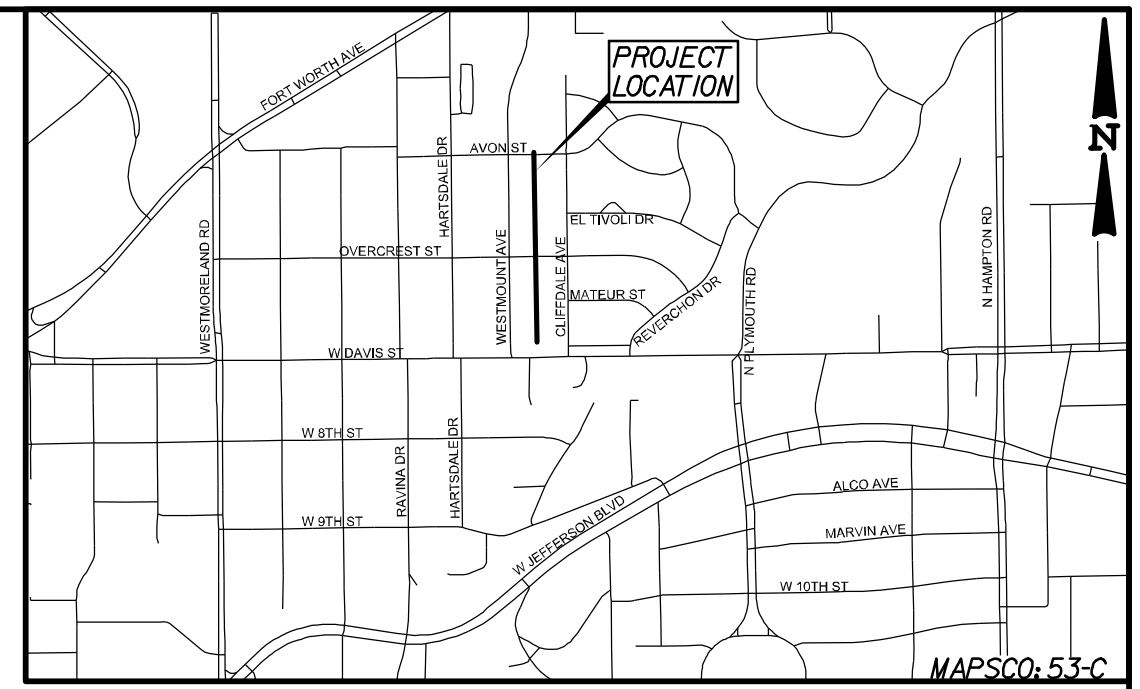
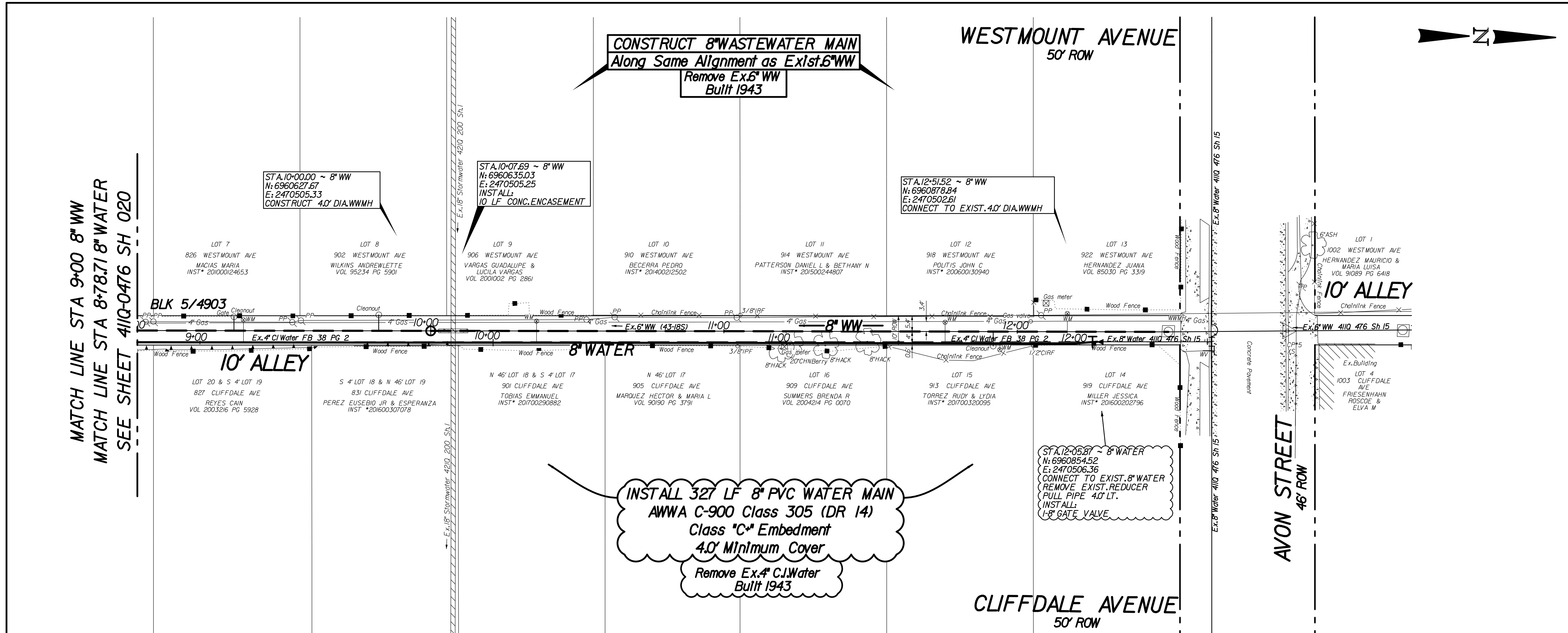
  

<b>Terry Romo, Inc.</b> 6/22/20	

Binkley & Barfield, Inc.   TxEng F-257 1801 Gateway Blvd. Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com					
<b>CONTRACT NO. 20-273/274</b>	<b>PID: 4177</b>				
<b>8" WATER &amp; 8" WASTEWATER</b> <b>ALLEY BETWEEN WESTMONT &amp; CLIFFDALE</b> <b>FROM AVON STREET SOUTH</b> <b>DALLAS WATER UTILITIES</b> <b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	41IQ	0476	020

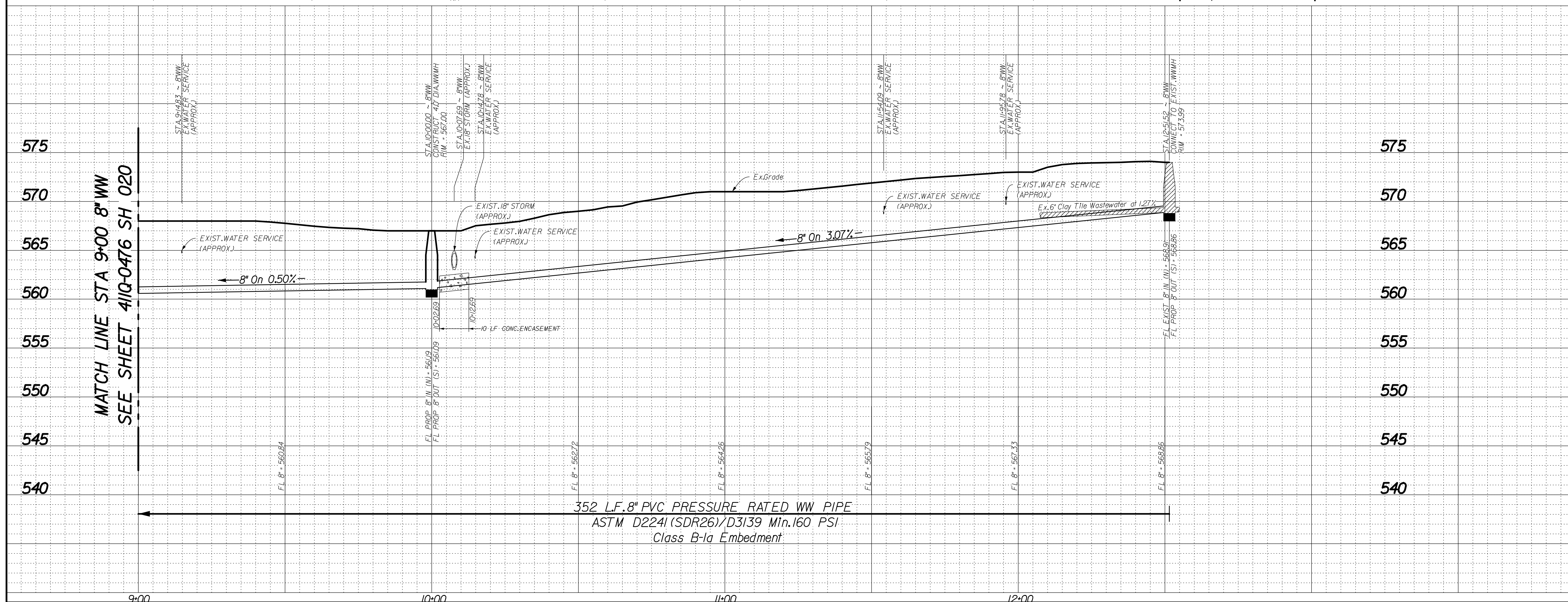




**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact AT&MOS Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

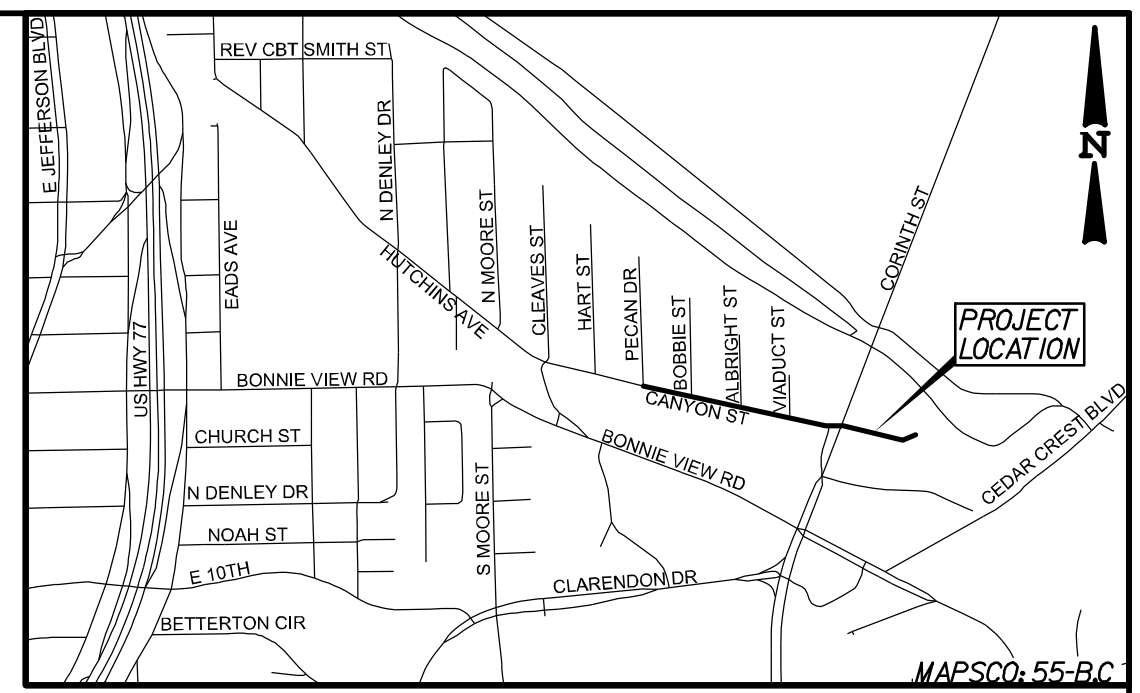
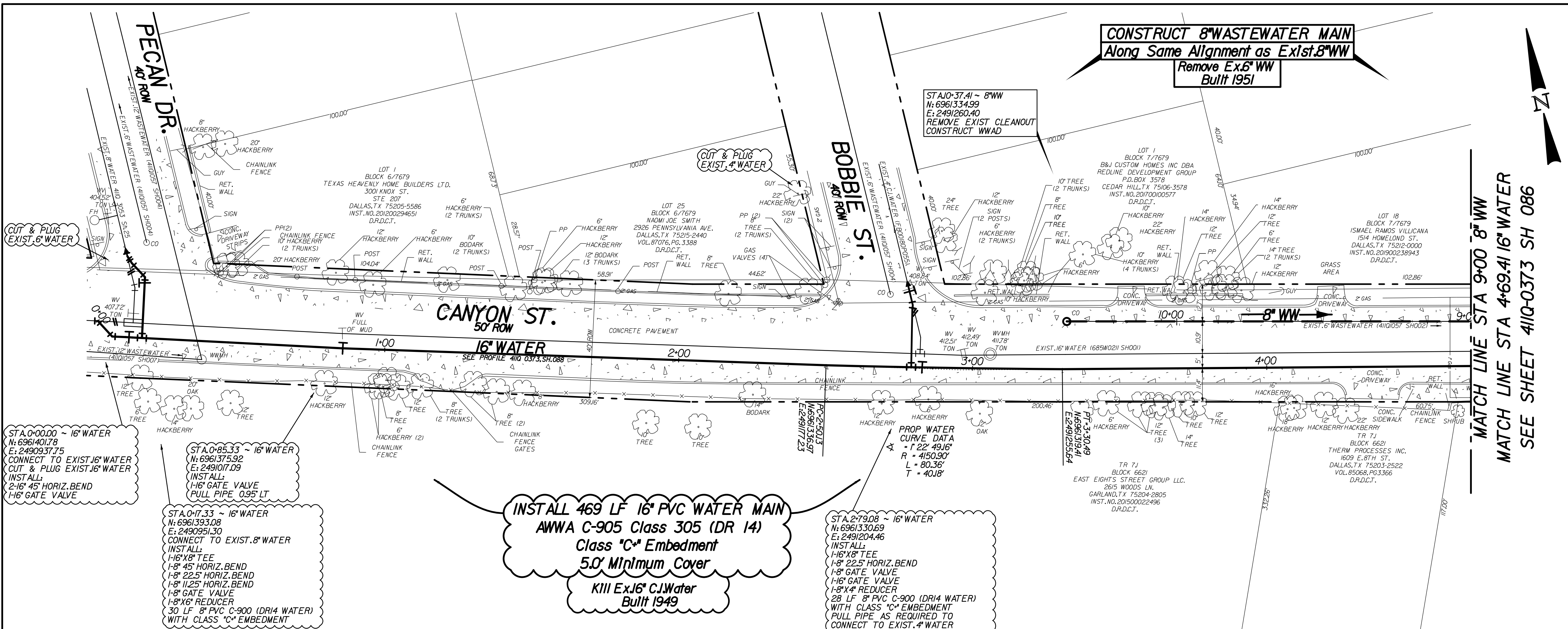
**NOTES:**

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REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
<b>BENCHMARK BENCHMARKS &amp; CONTROL POINTS</b>					
BM COD: STD WDBM ON SOUTH CONCRETE CURB OF WOODIN BLVD AT 100 FT EAST OF THE CENTERLINE OF MARSAIS AVE ELEV=574.36					
BM COD: STD WDBM ON SOUTH CONCRETE CURB OF VERMONT AVE. AT 100 FT EAST OF THE CENTERLINE OF MARSAIS AVE ELEV=560.40					
Point	Northing	Easting	Elev.	Description	
CP 3	6959626.32	2470519.54	555.62	X-CUT	
CP 4	6960201.33	2470510.83	569.49	X-CUT	
CP 5	6960919.42	2470501.80	574.48	X-CUT	
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 					
 <b>Tony Romo II P.E.</b> 6/22/20					
<b>REFERENCES</b> WATER 43-18W WASTEWATER 43-18S					
<b>Binkley Barfield</b> Consulting Engineers Binkley & Barfield, Inc.   TxEng F-257 1801 Gateway Blvd. Ste 101, Richardson, TX 75080 972.644.2800   BinkleyBarfield.com					
<b>CONTRACT NO. 20-273/274</b> <b>PID: 4177</b>					
<b>8" WATER &amp; 8" WASTEWATER</b> <b>ALLEY BETWEEN WESTMONT &amp; CLIFFDALE</b> <b>FROM AVON STREET SOUTH</b> <b>DALLAS WATER UTILITIES</b> <b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	41IQ	0476	021





STA. 0+00.00 ~ 16" WATER  
 N: 696140178  
 E: 249093775  
 CONNECT TO EXIST. 16" WATER  
 CUT & PLUG EXIST. 16" WATER  
 INST. ALL  
 2-16" 45' HORIZ. BEND  
 1-16" GATE VALVE

STA. 0+85.33 ~ 16" WATER  
 N: 696137592  
 E: 249107109  
 (INST. ALL)  
 1-16" GATE VALVE  
 PULL PIPE 0.95' LT

STA. 0+17.33 ~ 16" WATER  
 N: 696139308  
 E: 249095130  
 CONNECT TO EXIST. 8" WATER  
 INST. ALL:  
 1-16" X 8" TEE  
 1-8" 45' HORIZ. BEND  
 1-8" 22.5' HORIZ. BEND  
 1-8" 11.25' HORIZ. BEND  
 1-8" GATE VALVE  
 1-8" X 6" REDUCER  
 30 LF 8" PVC C-900 (DR14 WATER)  
 WITH CLASS "C" EMBEDMENT

INSTALL 469 LF 16" PVC WATER MAIN  
 AWWA C-905 Class 305 (DR 14)  
 Class "C" Embedment  
 5.0' Minimum Cover  
 K111 Ex J6 C.J. Water  
 Built 1949

STA. 2+79.08 ~ 16" WATER  
 N: 696133069  
 E: 249120446  
 INST. ALL:  
 1-16" X 8" TEE  
 1-8" 22.5' HORIZ. BEND  
 1-8" GATE VALVE  
 1-16" X 4" REDUCER  
 28 LF 8" PVC C-900 (DR14 WATER)  
 WITH CLASS "C" EMBEDMENT  
 PULL PIPE AS REQUIRED TO  
 CONNECT TO EXIST. 4" WATER

CONSTRUCT 8" WASTEWATER MAIN  
 Along Same Alignment as Exist. 8" WW  
 Remove Ex. 8" WW  
 Built 1951

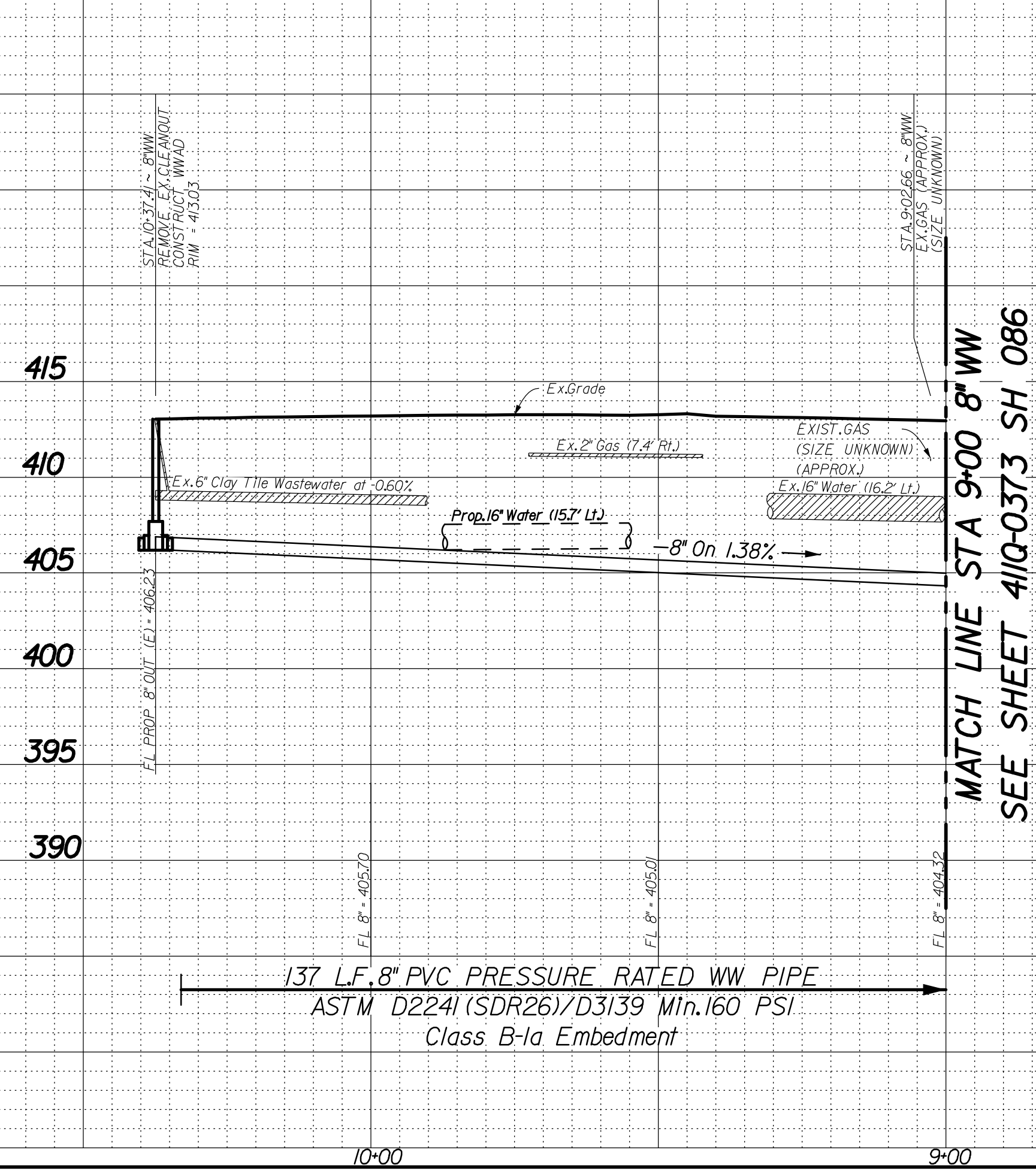
STA. 10+37.41 ~ 8" WW  
 N: 696133499  
 E: 249126240  
 REMOVE EXIST. CLEANOUT  
 CONSTRUCT WWAD

MATCH LINE STA 9+00 8" WW  
 MATCH LINE STA 4+69.41 16" WATER  
 SEE SHEET 41Q-0373 SH 086

CAUTION ~ GAS !  
 Underground Gas Main In Area  
 Contact AT&M Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

NOTES:  
 1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON DECEMBER 13, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
 2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWI INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
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SEE SHEET 41Q 0373, SH.088 FOR  
 16" WATER LINE PROFILE



MATCH LINE STA 9+00 8" WW  
 SEE SHEET 41Q-0373 SH 086

REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARK & CONTROL POINTS**  
 55-F-9: CITY OF DALLAS BENCH MARK IS SET ON TOP OF A CONCRETE CURB ON THE SOUTH SIDE OF CLAUDE ST AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WALNUT ST & CLAUDE ST ELEV=481.40  
 BENCHMARK  
 55-F-10: CITY OF DALLAS BENCHMARK IS SET ON TOP OF THE EAST CONCRETE CURB LINE OF WALNUT ST AT THE INTERSECTION AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WALNUT ST & PERU ST ELEV=482.96

Point	Northing	Eastng	Elev.	Description
101	6960116.66	2491512.21	437.74	1/2-IN IRON ROD
102/BM1	6960538.93	2491671.47	428.41	SQUARE CUT X
BM2	6960423.60	2491087.98	406.90	SQUARE CUT X
103/BM3	6960511.47	2490411.75	416.07	SQUARE CUT X
104	6960555.71	2490089.89	430.06	SQUARE CUT X
BM4	6960163.87	2491541.64	437.30	SQUARE CUT X

Horizontal Scale: 1" = 20'  
 Vertical Scale: 1" = 6'

REFERENCES  
 WATER  
 43-25W  
 WASTEWATER  
 43-25S

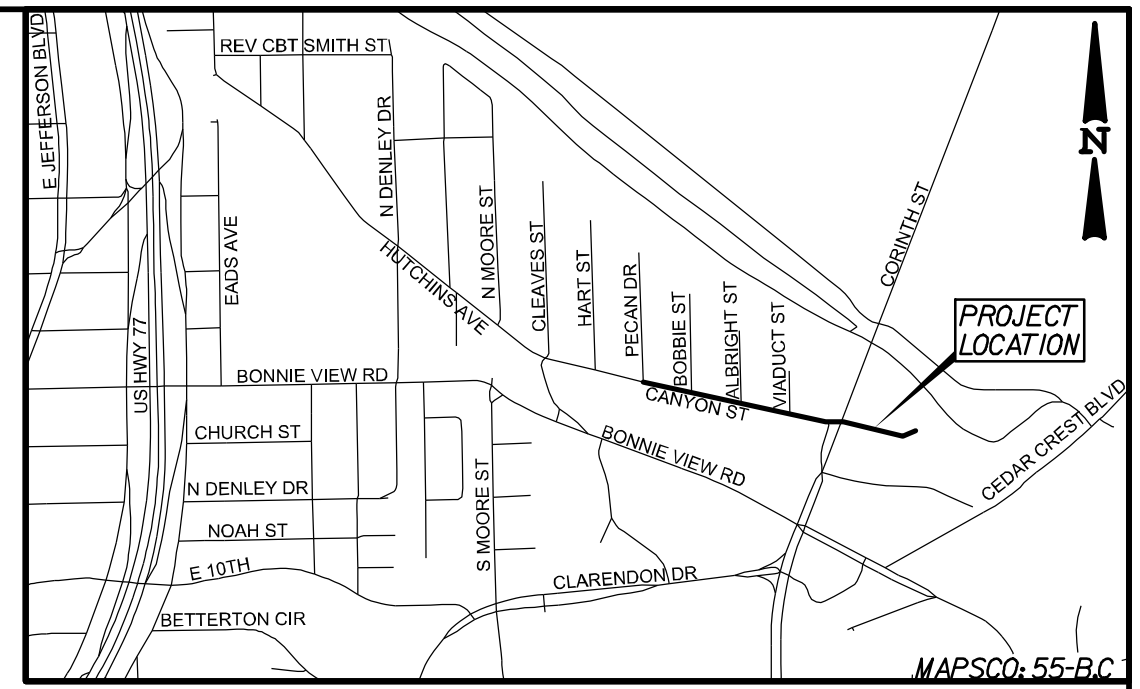
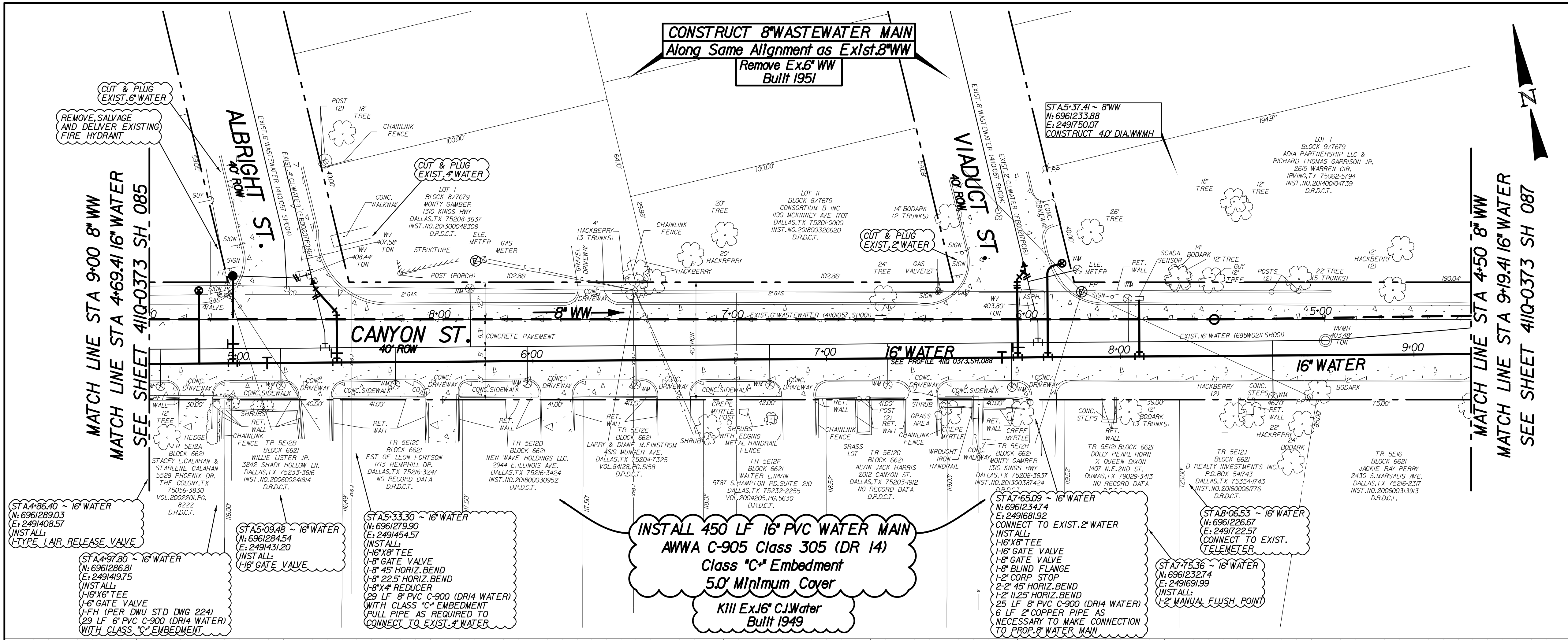
**Binkley & Barfield, Inc.** | TxEng F-257  
 1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
 972.644.2800 | BinkleyBarfield.com

CONTRACT NO. 20-273/274 | PID: 5997

**16" WATER & 8" WASTEWATER  
 CANYON STREET  
 PECAN DR TO WEST OF CORINTH ST  
 DALLAS WATER UTILITIES  
 CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
RBI	RBI	JUNE 2020	41Q	0373	085



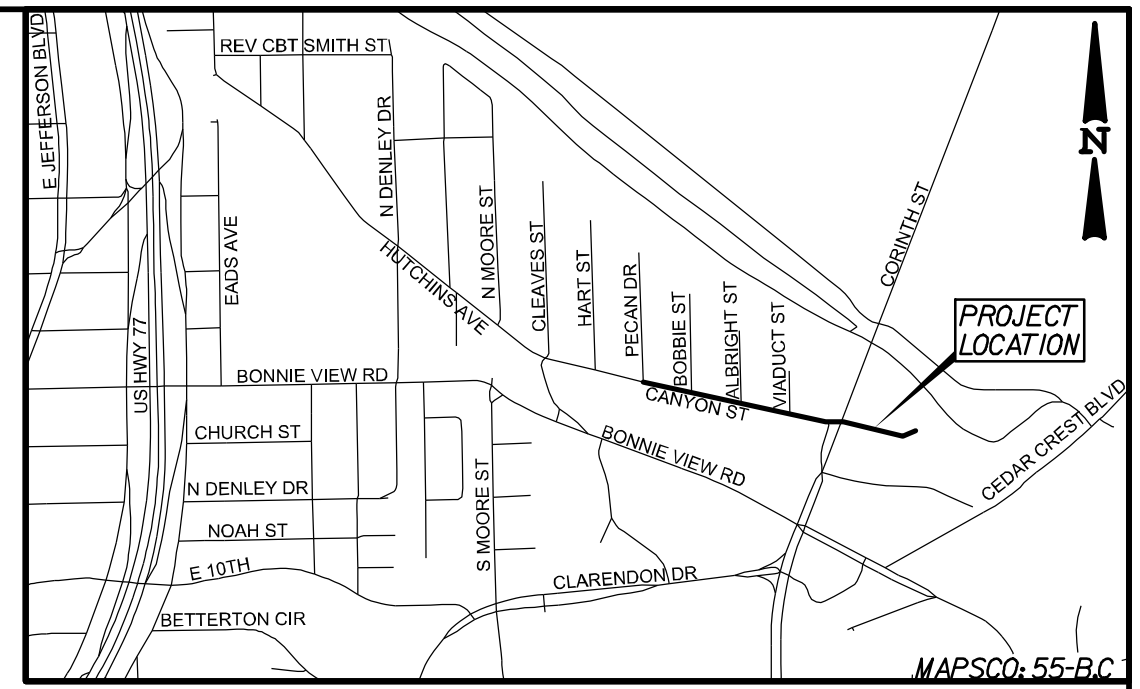
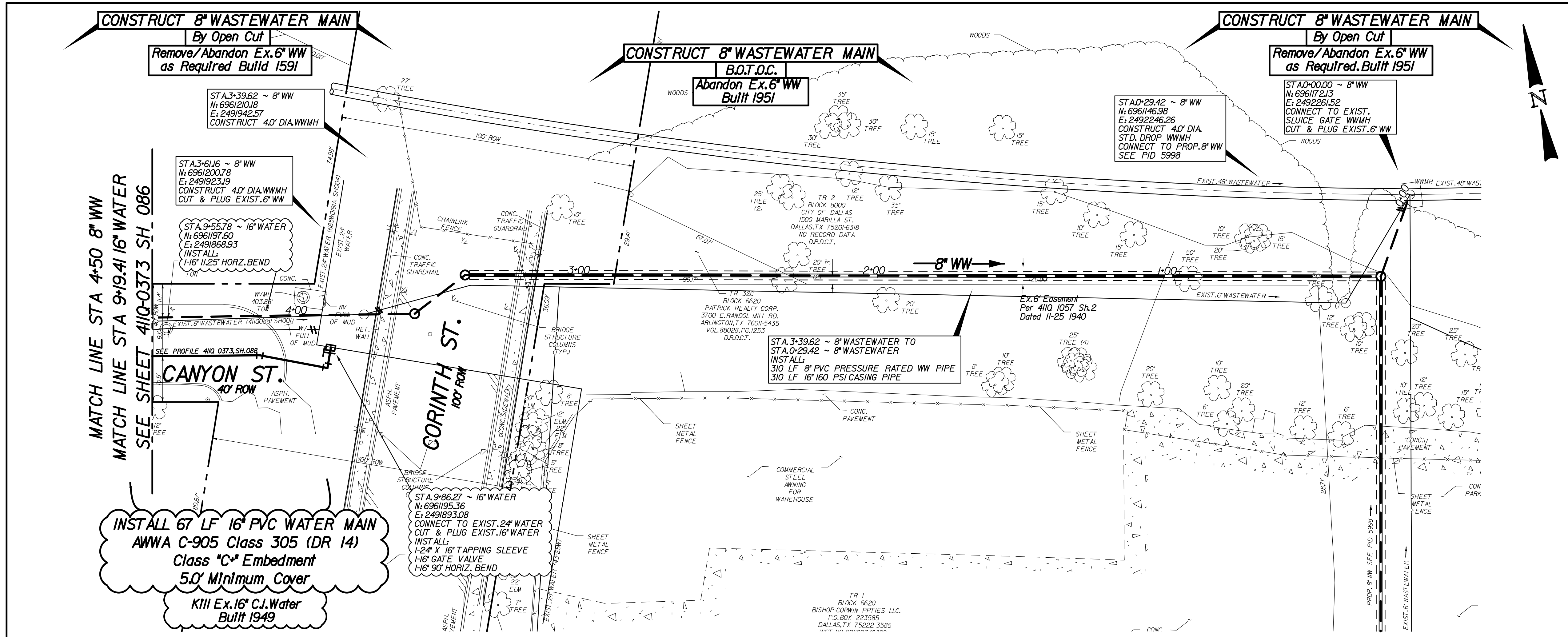


**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact AT&M Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005



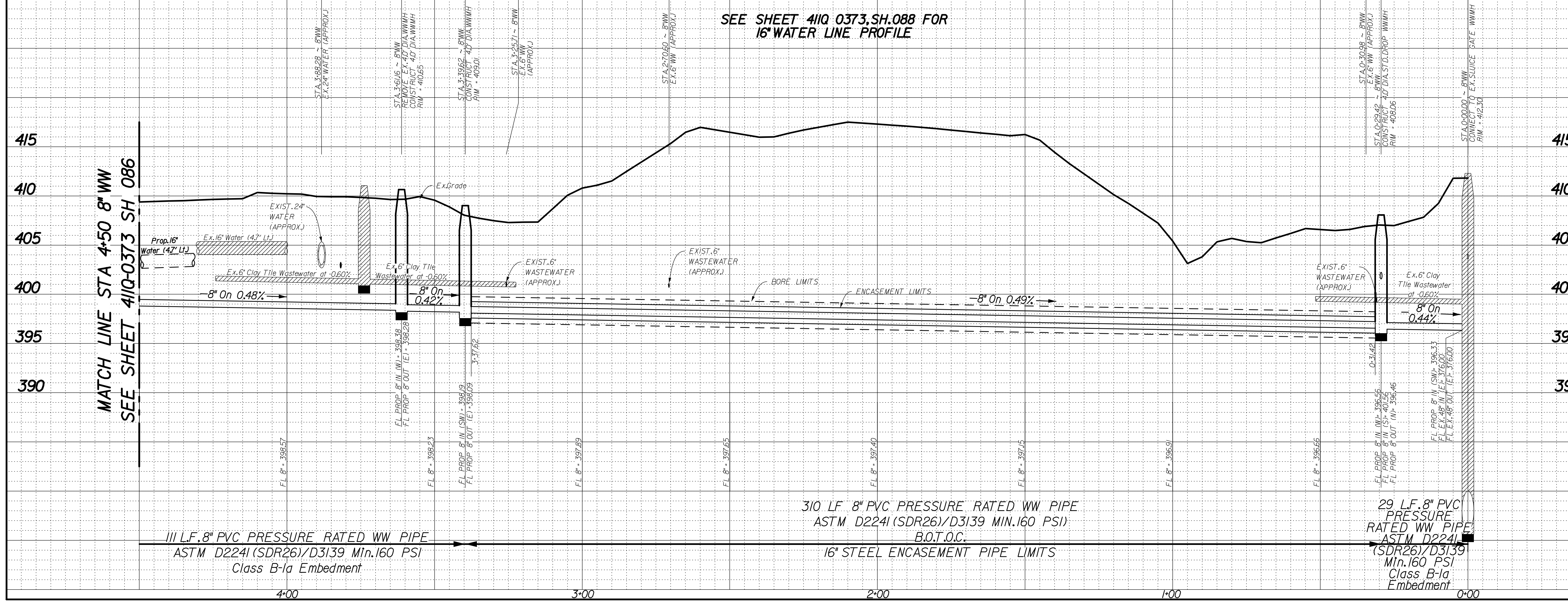
REV. NO.	DATE	DESCRIPTION	BY		
<b>REVISIONS</b>					
<b>BENCHMARK &amp; CONTROL POINTS</b>					
55-F-9: CITY OF DALLAS BENCH MARK IS SET ON TOP OF A CONCRETE CURB ON THE SOUTH SIDE OF CLAUDE ST AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WALNUT ST & CLAUDE ST ELEV=481.40					
BENCHMARK 55-F10: CITY OF DALLAS BENCHMARK IS SET ON TOP OF THE EAST CONCRETE CURB LINE OF WALNUT ST AT THE INTERSECTION AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WALNUT ST & PERU ST ELEV=482.96					
Point	Northing	Eastng	Elev.	Description	
101	6960116.66	2491512.21	437.74	1/2-IN IRON ROD	
102/BM1	6960538.93	2491671.47	428.41	SQUARE CUT X	
BM2	6960423.60	2491087.98	406.90	SQUARE CUT X	
103/BM3	6960511.47	2490411.75	416.07	SQUARE CUT X	
104	6960555.71	2490089.89	430.06	SQUARE CUT X	
BM4	6960163.87	2491541.64	437.30	SQUARE CUT X	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
<b>REFERENCES</b> WATER 43-25W WASTEWATER 43-25S					
<b>CONTRACT NO. 20-273/274</b> <b>PID: 5997</b>					
<b>16" WATER &amp; 8" WASTEWATER</b> <b>CANYON STREET</b> <b>PECAN DR TO WEST OF CORINTH ST</b> <b>DALLAS WATER UTILITIES</b> <b>CITY OF DALLAS, TEXAS</b>					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	41Q	0373	086





**CAUTION ~ GAS !**  
 Underground Gas Main In Area  
 Contact AT&T Energy Corp. Two Working  
 Days Prior To Construction.  
 Tele: 1-800-344-8377 / 1-800-545-6005

**NOTES:**  
 1. THE GROUND SURVEY WAS PERFORMED BY PJB SURVEYING ON DECEMBER 13, 2019. THE DESIGN RELIES ON INFORMATION PROVIDED BY THE SURVEYOR. THE DESIGN IS BASED ON SURFACE COORDINATES AND LISTED CONTROL POINTS ARE SHOWN IN GRID VALUES. CONTROL GRID VALUES MAY BE ADJUSTED TO SURFACE USING THE DALLAS COUNTY SCALE FACTOR, 1.000136506.  
 2. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWI INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.  
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REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARKS & CONTROL POINTS**  
 55-F-9: CITY OF DALLAS BENCH MARK IS SET ON TOP OF A CONCRETE CURB ON THE SOUTH SIDE OF CLAUDE ST. AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WALNUT ST & CLAUDE ST ELEV-481.40  
 55-F-10: CITY OF DALLAS BENCHMARK IS SET ON TOP OF THE EAST CONCRETE CURB LINE OF WALNUT ST. AT THE INTERSECTION AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WALNUT ST & PERU ST ELEV-482.96

Point	Northing	Easting	Elev.	Description
101	6960116.66	2491512.21	437.74	1/2-IN IRON ROD
102/BM1	6960538.93	2491671.47	428.41	SQUARE CUT X
BM2	6960423.60	2491087.98	406.90	SQUARE CUT X
103/BM3	6960511.47	2490411.75	416.07	SQUARE CUT X
104	6960555.71	2490089.89	430.06	SQUARE CUT X
BM4	6960163.87	2491541.64	437.30	SQUARE CUT X

Horizontal Scale: 1" = 20'  
 Vertical Scale: 1" = 6'

**REFERENCES**  
 WATER  
 43-25W  
 WASTEWATER  
 43-25S

**Professional Engineer Seal:**  
 STATE OF TEXAS  
 ANTONIO S. ROMO II  
 85571  
 REGISTERED PROFESSIONAL ENGINEER  
 Tony Romo, P.E.  
 6/22/20

**Binkley Barfield** Consulting Engineers  
 Binkley & Barfield, Inc. | TxEng F-257  
 1801 Gateway Blvd. Ste 101, Richardson, TX 75080  
 972.644.2800 | BinkleyBarfield.com

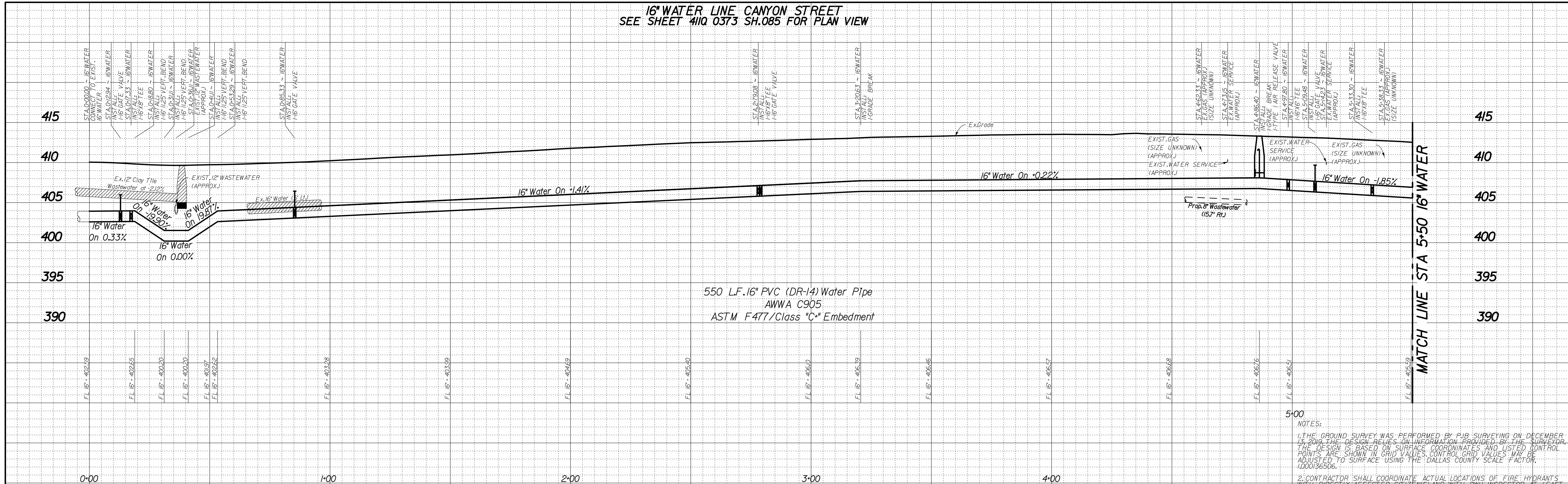
**CONTRACT NO. 20-273/274** | **PID: 5997**

**16" WATER & 8" WASTEWATER**  
**CANYON STREET**  
**PECAN DR TO WEST OF CORINTH ST**  
**DALLAS WATER UTILITIES**  
**CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	JUNE 2020	411Q	0373	087



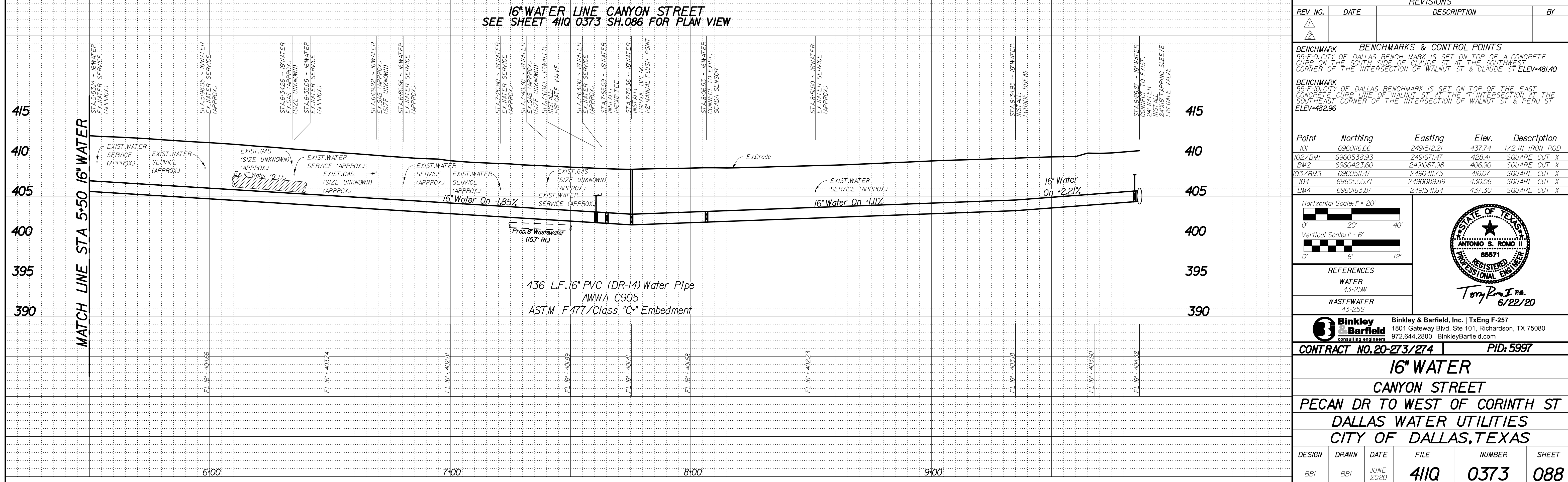
16" WATER LINE CANYON STREET  
SEE SHEET 41Q 0373 SH.085 FOR PLAN VIEW



550 L.F. 16" PVC (DR-14) Water Pipe  
AWWA C905  
ASTM F477/Class "C" Embedment

- NOTES:
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  - CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWS INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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16" WATER LINE CANYON STREET  
SEE SHEET 41Q 0373 SH.086 FOR PLAN VIEW



436 L.F. 16" PVC (DR-14) Water Pipe  
AWWA C905  
ASTM F477/Class "C" Embedment

REV. NO.	DATE	DESCRIPTION	BY

**BENCHMARK & CONTROL POINTS**

**BENCHMARK**  
55-F-9: CITY OF DALLAS BENCH MARK IS SET ON TOP OF A CONCRETE CURB ON THE SOUTH SIDE OF CLAUDE ST. AT THE SOUTHWEST CORNER OF THE INTERSECTION OF WALNUT ST & CLAUDE ST ELEV=481.40

**BENCHMARK**  
55-F10: CITY OF DALLAS BENCHMARK IS SET ON TOP OF THE EAST CONCRETE CURB LINE OF WALNUT ST AT THE INTERSECTION AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WALNUT ST & PERU ST ELEV=482.96

Point	Northing	Easting	Elev.	Description
101	6960116.66	2491512.21	437.74	1/2-IN IRON ROD
102/BM1	6960538.93	2491671.47	428.41	SQUARE CUT X
BM2	6960423.60	2491087.98	406.90	SQUARE CUT X
103/BM3	6960511.47	2490411.75	416.07	SQUARE CUT X
104	6960555.71	2490089.89	430.06	SQUARE CUT X
BM4	6960163.87	2491541.64	437.30	SQUARE CUT X

Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 6'

REFERENCES  
WATER 43-25W  
WASTEWATER 43-25S

**STATE OF TEXAS**  
ANTONIO S. ROMO II  
REGISTERED PROFESSIONAL ENGINEER  
88571  
Tony Romo P.E.  
6/22/20

Binkley & Barfield, Inc. | TxEng F-257  
1801 Gateway Blvd, Ste 101, Richardson, TX 75080  
972.644.2800 | BinkleyBarfield.com

CONTRACT NO. 20-273/274 | PID: 5997

**16" WATER**  
CANYON STREET  
PECAN DR TO WEST OF CORINTH ST  
DALLAS WATER UTILITIES  
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
RBI	RBI	JUNE 2020	41Q	0373	088