

NOTES:
 1. SEE PROJECT GENERAL NOTES SHEET FOR ADDITIONAL NOTES.
 2. THE GROUND SURVEY WAS PERFORMED BY PACHECO KOCH IN JANUARY 2020. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY.
 3. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWI INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
 4. 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.

UNDERGROUND UTILITIES
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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 ~ 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

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

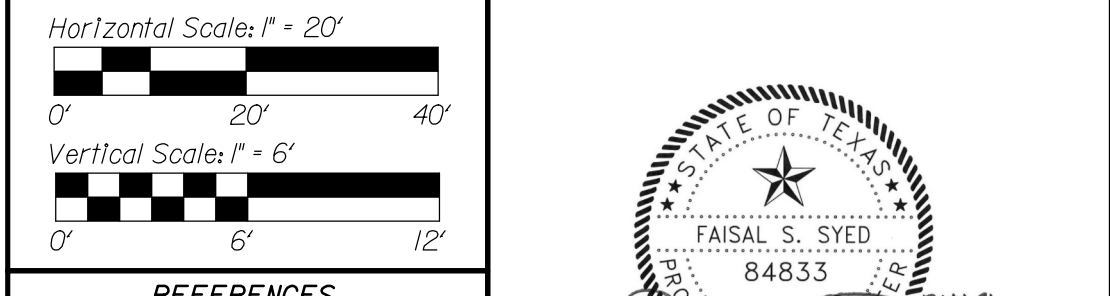
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK * 25-M-15
 A STANDARD WATER DEPARTMENT BENCHMARK ON CONCRETE CURB OF STORM SEWER DROP INLET SOUTHEAST CORNER OF THE INTERSECTION OF HILLCREST ROAD AND HURST AVENUE
 ELEV = 613.73'

BENCHMARK * 25-R-2
 A SQUARE ON THE WEST SIDE OF A CONCRETE BASE FOR A METAL LIGHT POLE IN THE CENTER OF THE MEDIAN OF HILLCREST AVENUE, 50 +/- FEET NORTH OF THE CENTERLINE OF ABERDEEN AVENUE
 ELEV = 628.51'

Point	Northing	Eastng	Elev.	Description
5	7,009,234.30	2,492,426.46	622.78'	'X' CUT
6	7,009,270.34	2,492,778.64	624.73'	'X' CUT
7	7,009,274.18	2,493,287.3	626.55'	'X' CUT



REFERENCES
 WATER
 19-25W & 19-26W
 WASTEWATER
 19-26S

Pacheco Koch UEG
 167 turtle creek blvd, ste a dallas, texas 75207
 414.282.1800 x
 FIRM REGISTRATION NO: F5332

CONTRACT NO. 21-049/050 PID * 2904

**8\"/>
 GLENDORA AVENUE
 FROM EDGEMERE RD TO HILLCREST AVE
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	41IQ	1325	195

2/11/2021
 PLAN/ENGINEERING/2019/19-35 PKCH-DW1 2019/CADD/Sheets/PID-2904 - SHT.195

INSTALL 400 LF 8" PVC WATER MAIN
AWWA C900 (DRI4) /
ASTM D-3139 / ASTM F-477
(MIN. 4.0' COVER) NO PROFILE
CLASS "C" EMBEDMENT

K111 Ex. 8" Water
Built Unknown

INSTALL 400 LF 8" PVC WATER MAIN
AWWA C900 (DRI4) /
ASTM D-3139 / ASTM F-477
(MIN. 4.0' COVER) NO PROFILE
CLASS "C" EMBEDMENT

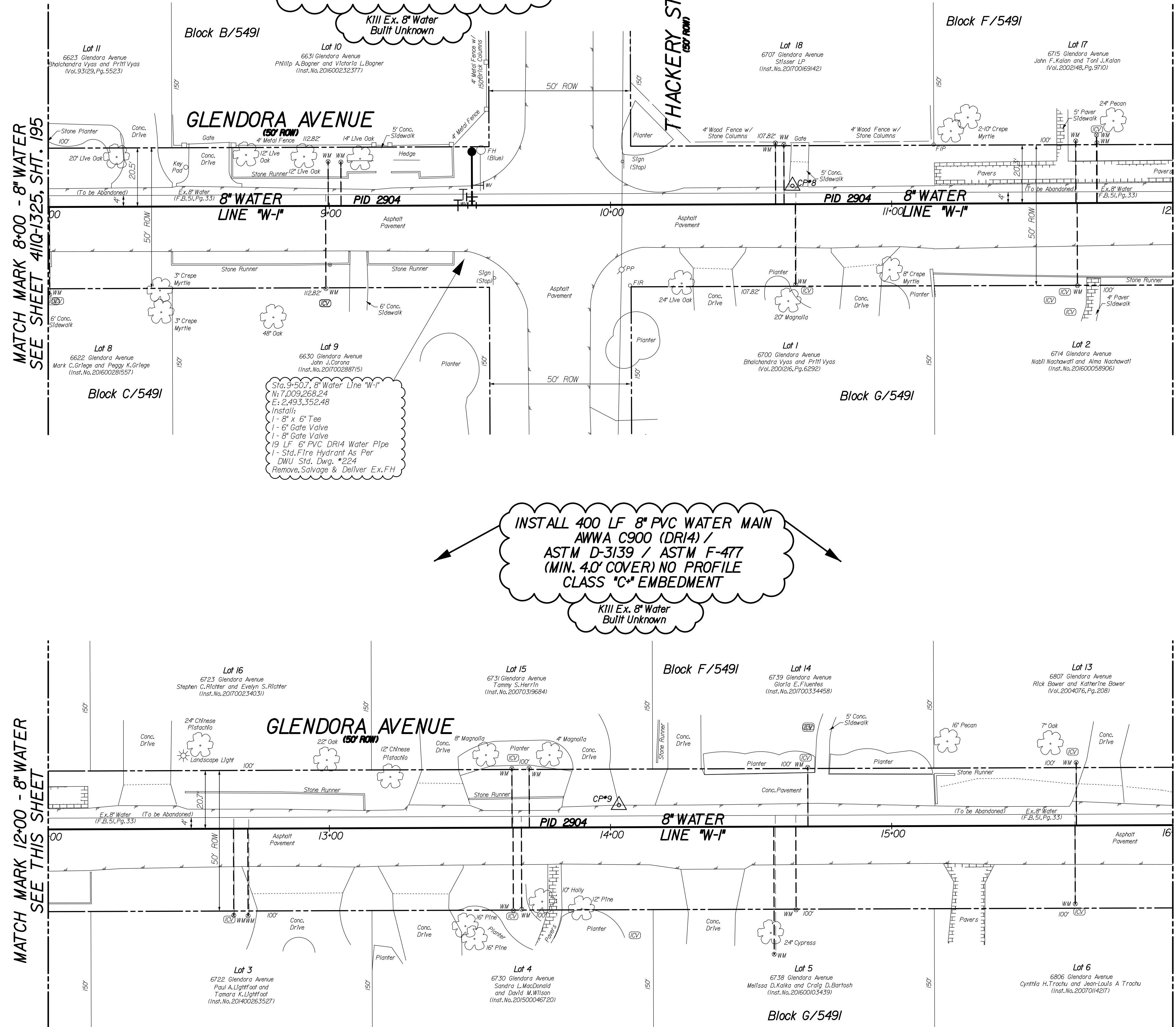
K111 Ex. 8" Water
Built Unknown

MATCH MARK 8+00 - 8" WATER
SEE SHEET 411Q-1325, SHT. 195

MATCH MARK 12+00 - 8" WATER
SEE THIS SHEET

MATCH MARK 12+00 - 8" WATER
SEE THIS SHEET

MATCH MARK 16+00 - 8" WATER
SEE SHEET 411Q-1325, SHT. 197



- NOTES:
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 - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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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 ~ 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

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

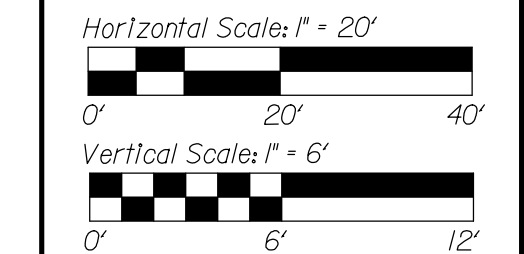
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK * 25-M-15
A STANDARD WATER DEPARTMENT BENCHMARK ON CONCRETE CURB OF STORM SEWER DROP INLET SOUTHEAST CORNER OF THE INTERSECTION OF HILLCREST ROAD AND HURST AVENUE
ELEV = 613.73'

BENCHMARK * 25-R-2
A SQUARE ON THE WEST SIDE OF A CONCRETE BASE FOR A METAL LIGHT POLE IN THE CENTER OF THE MEDIAN OF HILLCREST AVENUE, 50 +/- FEET NORTH OF THE CENTERLINE OF ABERDEEN AVENUE
ELEV = 628.51'

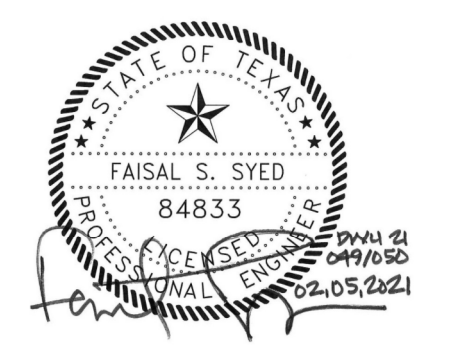
Point	Northing	Eastng	Elev.	Description
7	7,009,274.8	2,493,128.73	626.55'	'X' CUT
8	7,009,276.01	2,492,466.41	623.61'	'X' CUT
9	7,009,281.01	2,493,804.63	612.64'	'X' CUT



REFERENCES

WATER
19-25W & 19-26W

WASTEWATER
19-26S



Pacheco Koch UEG
167 turtle creek blvd, ste a dallas, texas 75207
614.282.1800
FIRM REGISTRATION NO: F5332

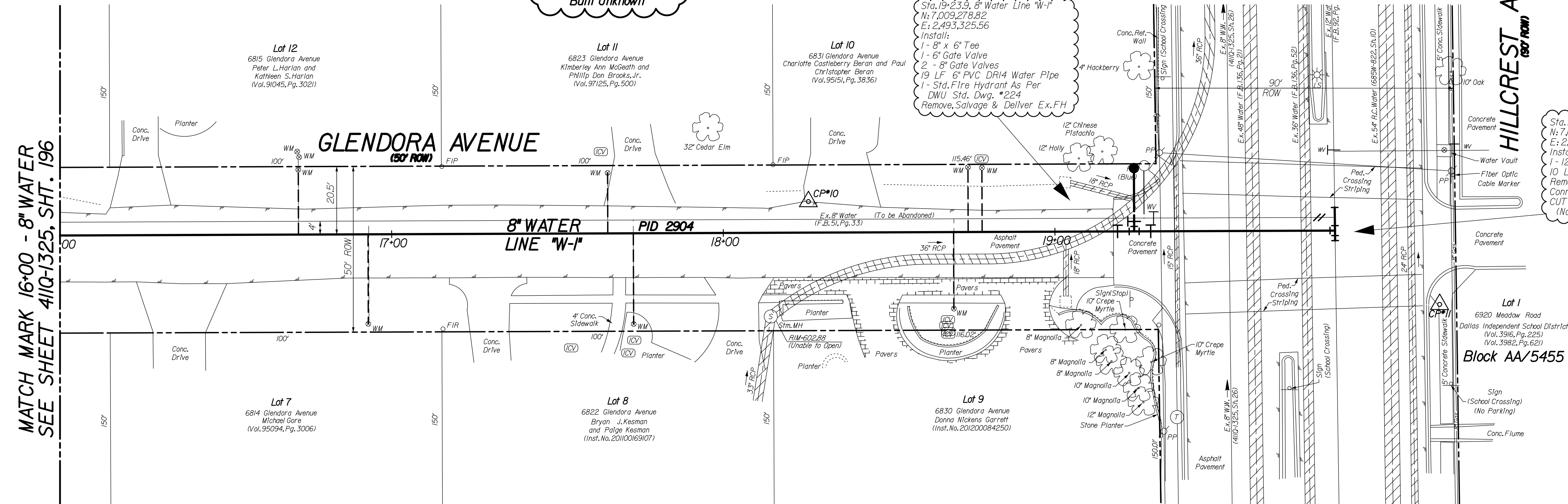
CONTRACT NO. 21-049/050 PID * 2904

8" WATER LINE
GLENDDORA AVENUE
FROM EDGEMERE RD TO HILLCREST AVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1325	196

INSTALL 385 LF 8" PVC WATER MAIN
 AWWA C900 (DRI4) /
 ASTM D-3139 / ASTM F-477
 (MIN. 4.0' COVER) NO PROFILE
 CLASS "C+" EMBEDMENT

K111 Ex. 8" Water
 Built Unknown



- NOTES:
- SEE PROJECT GENERAL NOTES SHEET FOR ADDITIONAL NOTES.
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CAUTION ~ TELEPHONE !

Underground Telephone 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 AMOS Energy Corp. Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !

Overhead & Underground Electrical Cables In Area
 Contact ONCOR Two Working Days Prior To Construction.
 Tele: 1-800-344-8377

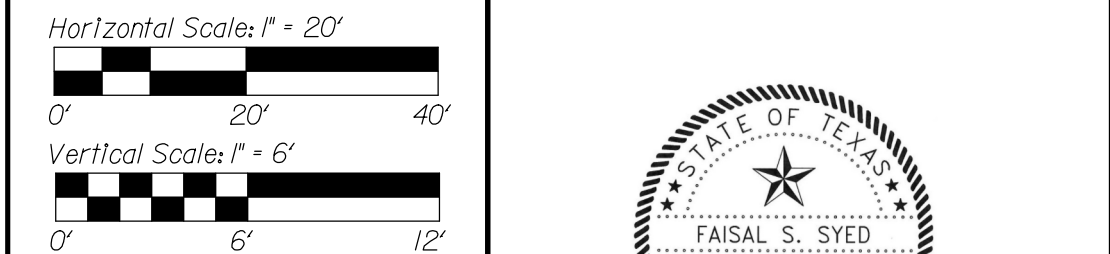
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK * 25-M-15
 A STANDARD WATER DEPARTMENT BENCHMARK ON CONCRETE CURB OF STORM SEWER DROP INLET SOUTHEAST CORNER OF THE INTERSECTION OF HILLCREST ROAD AND HURST AVENUE
 ELEV = 6137.3'

BENCHMARK * 25-R-2
 A SQUARE ON THE WEST SIDE OF A CONCRETE BASE FOR A METAL LIGHT POLE IN THE CENTER OF THE MEDIAN OF HILLCREST AVENUE, 50 +/- FEET NORTH OF THE CENTERLINE OF ABERDEEN AVENUE
 ELEV = 628.51'

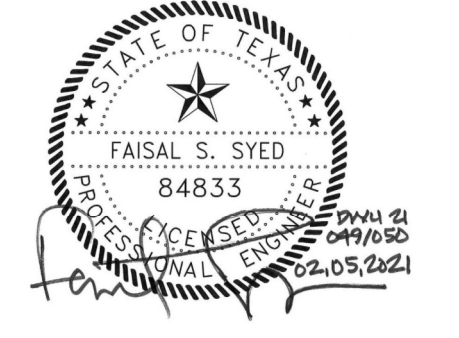
Point	Northing	Easting	Elev.	Description
9	7,009,281.01	2,493,804.63	612.64'	'X' CUT
10	7,009,287.13	2,494,227.28	601.52'	'X' CUT
11	7,009,257.46	2,494,417.82	601.61'	'X' CUT



REFERENCES

WATER
 19-25W & 19-26W

WASTEWATER
 19-26S



Pacheco Koch UEG

167 turtle creek blvd,
 ste a dallas, texas 75207
 214.252.1600 p
 FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 PID * 2904

8" WATER LINE
GLENDDORA AVENUE
FROM EDMERE RD TO HILLCREST AVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	41IQ	1325	197

LINE A
Install 450 LF 8" PVC Water Pipe
AWWA C900 (DR14)
Class "C" Embedment
4.0' Minimum Cover (No Profile)

K111 Ex. 8" Water
Built In 1962

MATCH MARK STA 4+50 ~ LINE A
SEE SHEET 411Q - 1962.SH.648

LINE B
Install 533 LF 8" PVC Water Pipe
AWWA C900 (DR14)
Class "C" Embedment
4.0' Minimum Cover (No Profile)

K111 Ex. 6" Water
Built In 1962

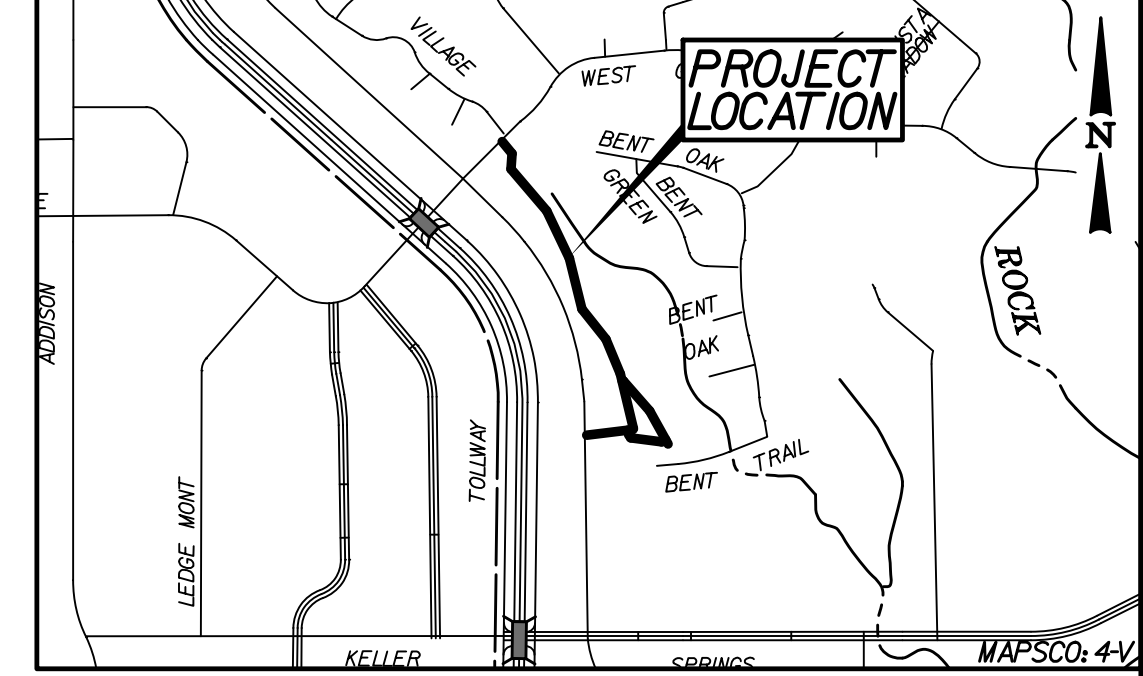
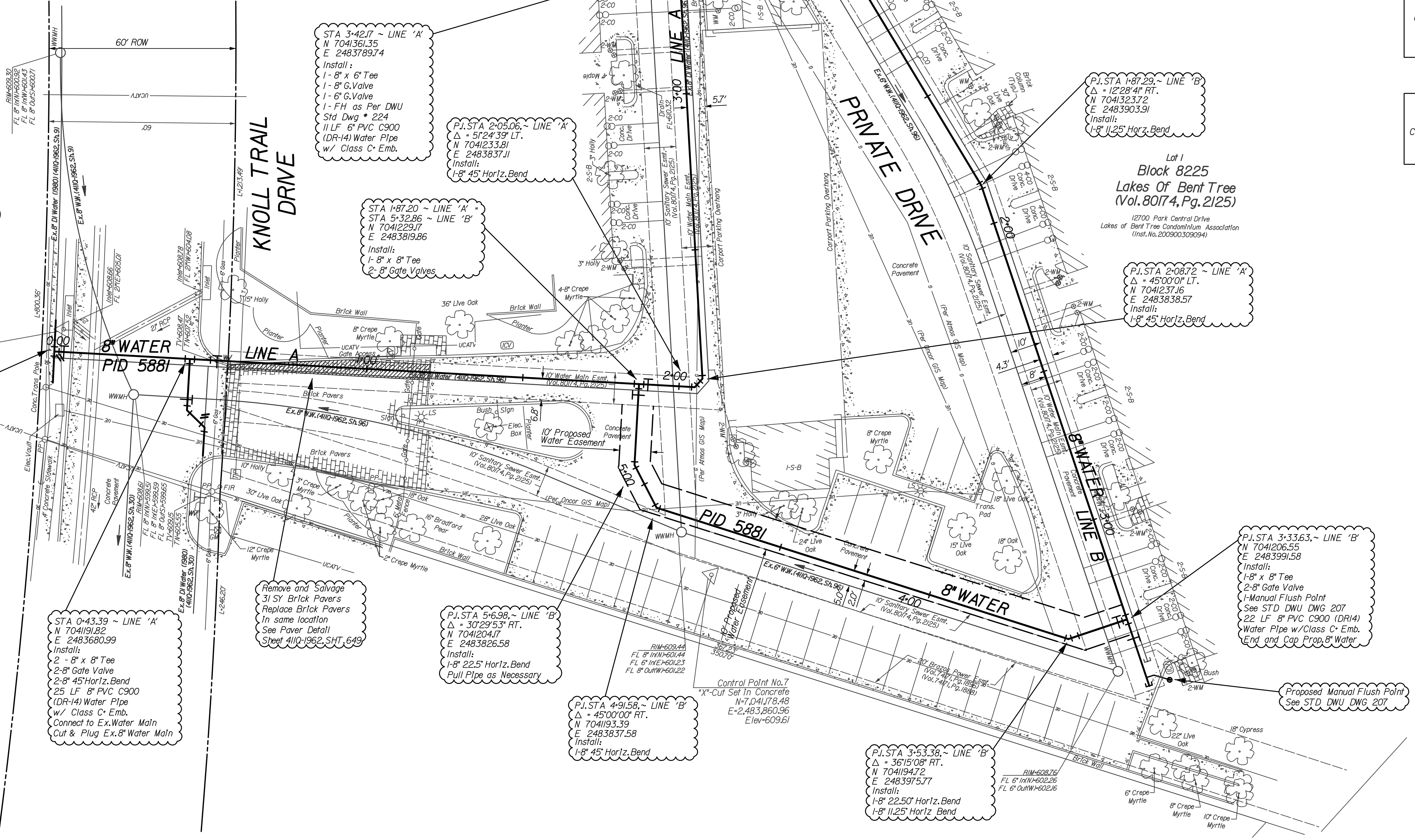
- Notes:
- Contractor shall restore site to original condition.
 - Contractor shall utilize the southwest entrance gate located off of Knoll Trail for egress and ingress onto the site. Contractor shall protect brick pavers at entrance with steel plates and shall remove and replace any disturbed paving restoring to original condition. Coordinate with property owner for gate access code contact owner representative at 954-415-1465.
 - Construction work time shall be between the hours of 9 am to 5:30 pm. Construction equipment hours of operation shall be from 10 am to 5:30 pm.
 - Contractor shall protect all trees on site and shall notify the Inspector/engineer if any trimming is required to complete the work, prior to starting the work.
 - Contractor to remove and replace pavers as necessary for trenching activity. Concrete subbase and subgrade should match existing strength, reinforcement, and thickness. Concrete subbase replacement should follow City of Dallas Street Repair standards. Sand bedding and Paver placement shall match existing. Contractor to field verify and notify engineer of material for City approval.
 - Approximately 13 parking spaces of the South parking area may be used to store pipe materials.
 - The Condominium Home Owner Association has requested that this work begin between March and June, if possible.
 - Prepare concrete to smooth float finish to match existing, no brush finish concrete allowed.

Lot 1
Block 8225
Lakes Of Bent Tree
(Vol. 80174, Pg. 2125)
12700 Park Central Drive
Lakes of Bent Tree Condominium Association
(Inst. No. 200900309094)

Lot 1
Block 8225
Lakes Of Bent Tree
(Vol. 80174, Pg. 2125)
12700 Park Central Drive
Lakes of Bent Tree Condominium Association
(Inst. No. 200900309094)

Knoll Trail Plaza
(Inst. No. 201500181042)

Lot 4
16400 Dallas Parkway
Knoll Trail Office Partners
(Inst. No. 201300308946)



- 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
- CAUTION ~ POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION Advanced Metering Infrastructure (AMI) Meters In Area**
AMI Components Shall be Disconnected, Reconnected, Removed or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-675-5537
Email: DWUMRO@dallascityhall.com

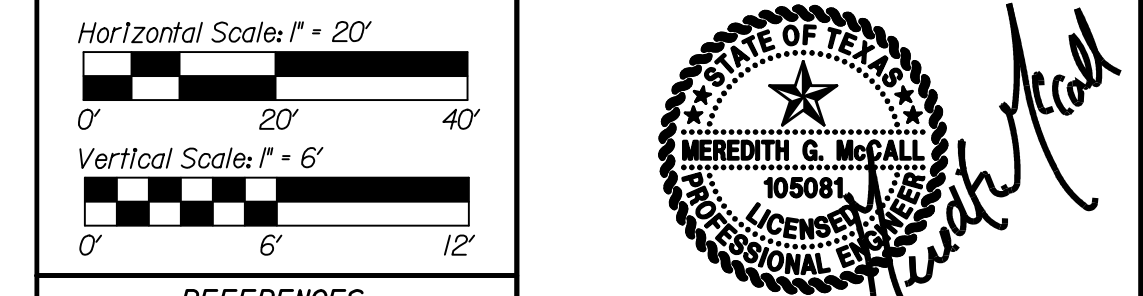
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK: 04-R-15
A Standard Water Department Bench Mark Is set on top of a concrete curb at the end of an island at the centerline of Westgrove Place and on the North side of Westgrove Drive (Between Vista Meadow Drive and Club Hill Drive).
ELEV = 611.07

BENCHMARK: 04-L-1
A square is cut on the North concrete curb of Knoll Trail Drive, in front of a Fire Hydrant at Northeast corner of the Intersecton.
ELEV = 632.26

Point	Northing	Easting	Elev.	Description
6	7041394.69	2483764.65	6107.6	X CUT
7	7041178.48	2483860.96	6096.1	X CUT
8	7041188.20	24836397.3	6087.7	X CUT



REFERENCES

WATER
3W-22 & 3W-23

WASTEWATER
3S-22 & 3S-23

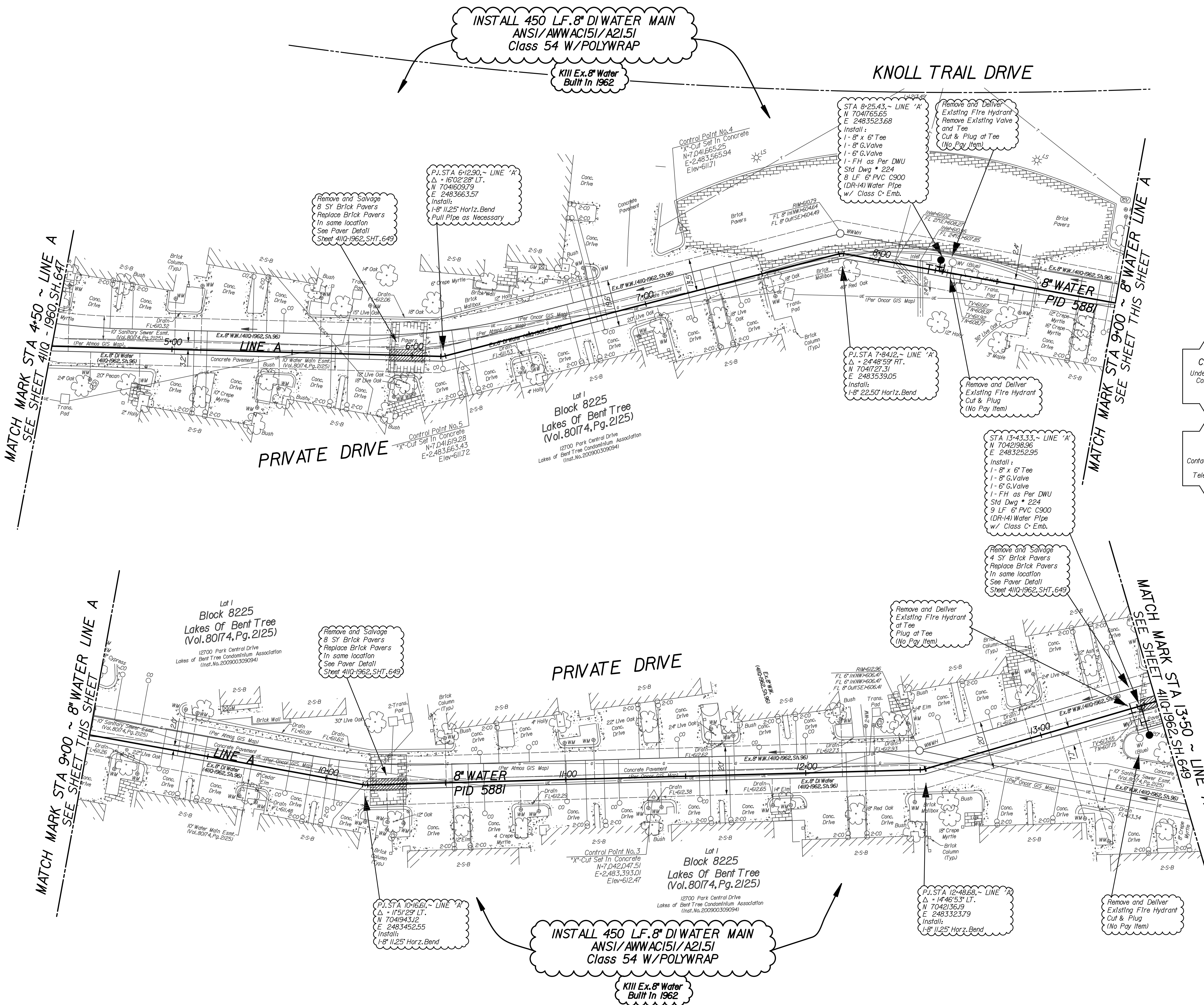
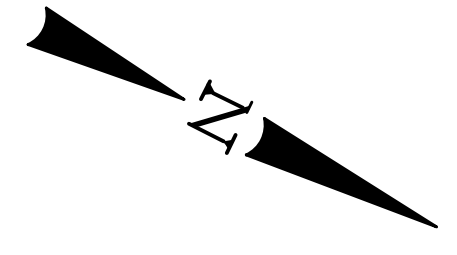
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MEREDITH G. MCCALL, P.E. 105081 ON 3/2/2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH: 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

CONTRACT NO. 21-049/050 **PID: 5881**

PROPOSED 8" WATER MAIN
ESMT NORTH OF KNOLL TRAIL DRIVE
FROM WESTGROVE DRIVE EAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	MAR 2021	411Q	1962	647



INSTALL 450 LF. 8" DI WATER MAIN
ANSI/AWWAC151/A21.51
Class 54 W/POLYWRAP

Kill Ex. 8" Water
Built In 1962

STA 8+25.43 ~ LINE 'A'
N 7041765.65
E 2483523.68
Install:
1- 8" x 6" Tee
1- 6" G.Valve
1- 6" G.Valve
1- FH as Per DWU
Std Dwg # 224
8 LF 6" PVC C900
(DR-14) Water Pipe
w/ Class C Emb.

Remove and Deliver
Existing Fire Hydrant
Remove Existing Valve
and Tee
Cut & Plug at Tee
(No Pay Item)

Remove and Salvage
8 SY Brick Pavers
Replace Brick Pavers
In same location
See Paver Detail
Sheet 411Q-1962.SHT.649

P.I. STA 6+12.90 ~ LINE 'A'
Δ = 16'02'28" LT.
N 7041609.79
E 2483663.57
Install:
1- 8" 11.25' Horiz. Bend
Pull Pipe as Necessary

P.I. STA 7+84.12 ~ LINE 'A'
Δ = 24'48'59" RT.
N 7041727.31
E 2483539.05
Install:
1- 8" 22.50' Horiz. Bend

Remove and Deliver
Existing Fire Hydrant
Cut & Plug
(No Pay Item)

STA 13+43.33 ~ LINE 'A'
N 7042198.96
E 2483252.95
Install:
1- 8" x 6" Tee
1- 6" G.Valve
1- 6" G.Valve
1- FH as Per DWU
Std Dwg # 224
9 LF 6" PVC C900
(DR-14) Water Pipe
w/ Class C Emb.

Remove and Salvage
4 SY Brick Pavers
Replace Brick Pavers
In same location
See Paver Detail
Sheet 411Q-1962.SHT.649

Remove and Deliver
Existing Fire Hydrant
at Tee
Plug at Tee
(No Pay Item)

PRIVATE DRIVE

INSTALL 450 LF. 8" DI WATER MAIN
ANSI/AWWAC151/A21.51
Class 54 W/POLYWRAP

Kill Ex. 8" Water
Built In 1962

P.I. STA 10+16.61 ~ LINE 'A'
Δ = 11'51'29" LT.
N 7041943.12
E 2483452.55
Install:
1- 8" 11.25' Horiz. Bend

P.I. STA 12+48.68 ~ LINE 'A'
Δ = 14'46'53" LT.
N 7042136.19
E 2483323.79
Install:
1- 8" 11.25' Horiz. Bend

Remove and Deliver
Existing Fire Hydrant
Cut & Plug
(No Pay Item)

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
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Days Prior To Construction.
Tele: 1-800-344-8377

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

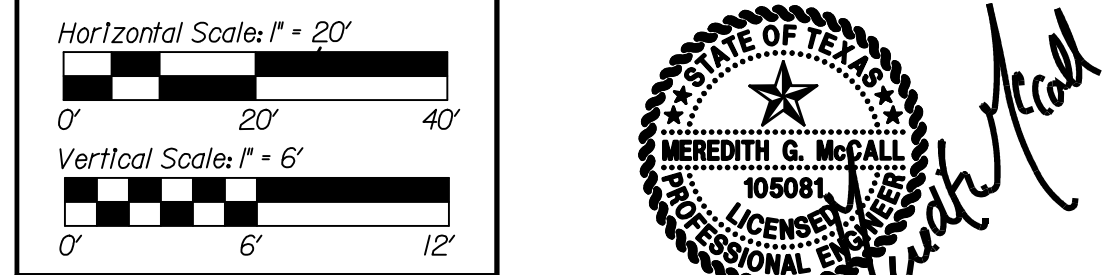
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected,
Removed, or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations
Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS				
BENCHMARK: 04-R-15 A Standard Water Department Bench Mark Is set on top of a concrete curb at the end of an island at the centerline of Westgrove Place and on the North side of Westgrove Drive (Between Vista Meadow Drive and Club Hill Drive). ELEV - 611.07				
BENCHMARK: 04-L-1 A square is cut on the North concrete curb of Knoll Trail Drive. In Front of a Fire Hydrant at Northeast corner of the Intersection. ELEV - 632.26				

Point	Northing	Easting	Elev.	Description
3	7042047.51	2483393.01	612.47	X CUT
4	7041665.25	2483565.94	611.71	X CUT
5	7041619.28	2483663.43	611.72	X CUT

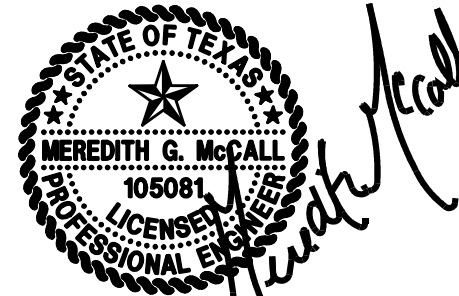


REFERENCES	
WATER	3W-22 & 3W-23
WASTEWATER	3S-22 & 3S-23

Pacheco Koch 7557 RAMBLER ROAD, SUITE 1400 DALLAS, TX 75231 PH: 972.235.3031 TX REG. ENGINEERING FIRM 15-14139 TX REG. SURVEYING FIRM LS-101938-05

CONTRACT NO. 21-049/050 PID: 5881
PROPOSED 8" WATER MAIN
ESMT NORTH OF KNOLL TRAIL DRIVE
FROM WESTGROVE DRIVE EAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	MAR 2021	411Q	1962	648



M:\DWG-42-19-19\DWG\CIVIL\PID_5881_KnollTrail.dwg PPO2.dgn

INSTALL 283 LF. 8" DI WATER MAIN
ANSI/AWWAC151/A21.51
Class 54 W/POLYWRAP

KIII Ex. 8" Water
Built In 1962

Remove and Salvage
9 SY Brick Pavers
Replace Brick Pavers
In same location
See Paver Detail
this sheet

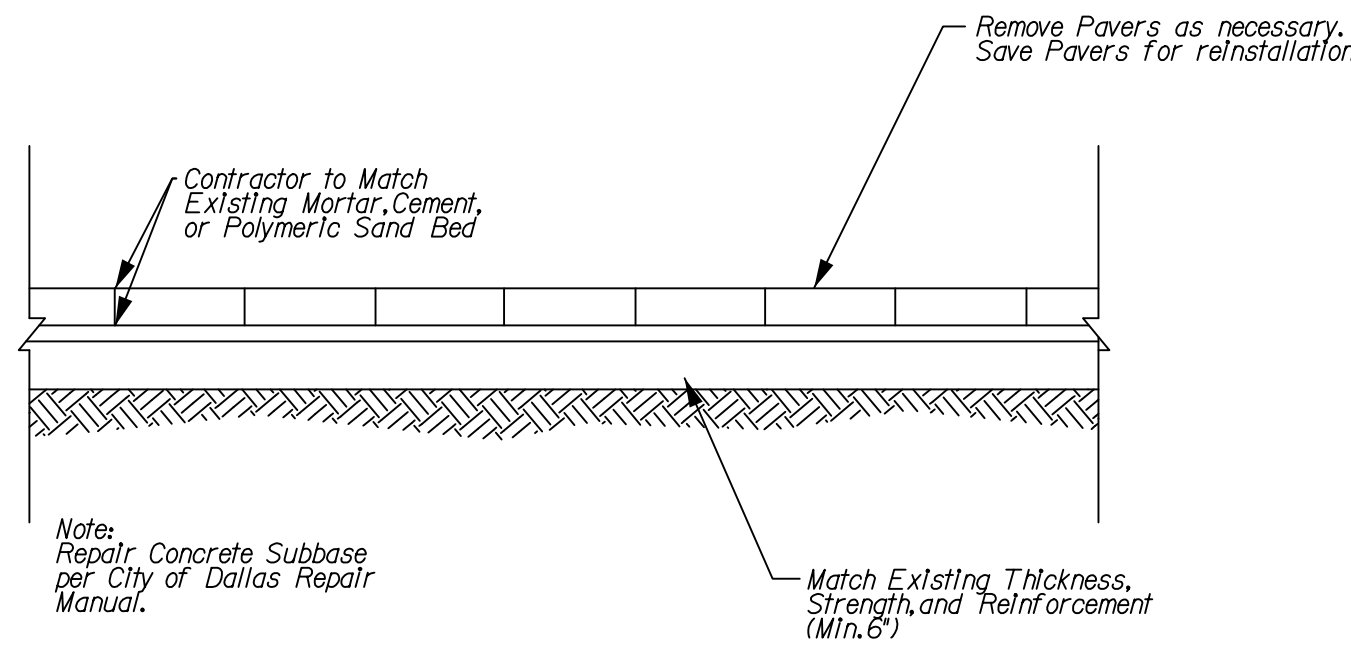
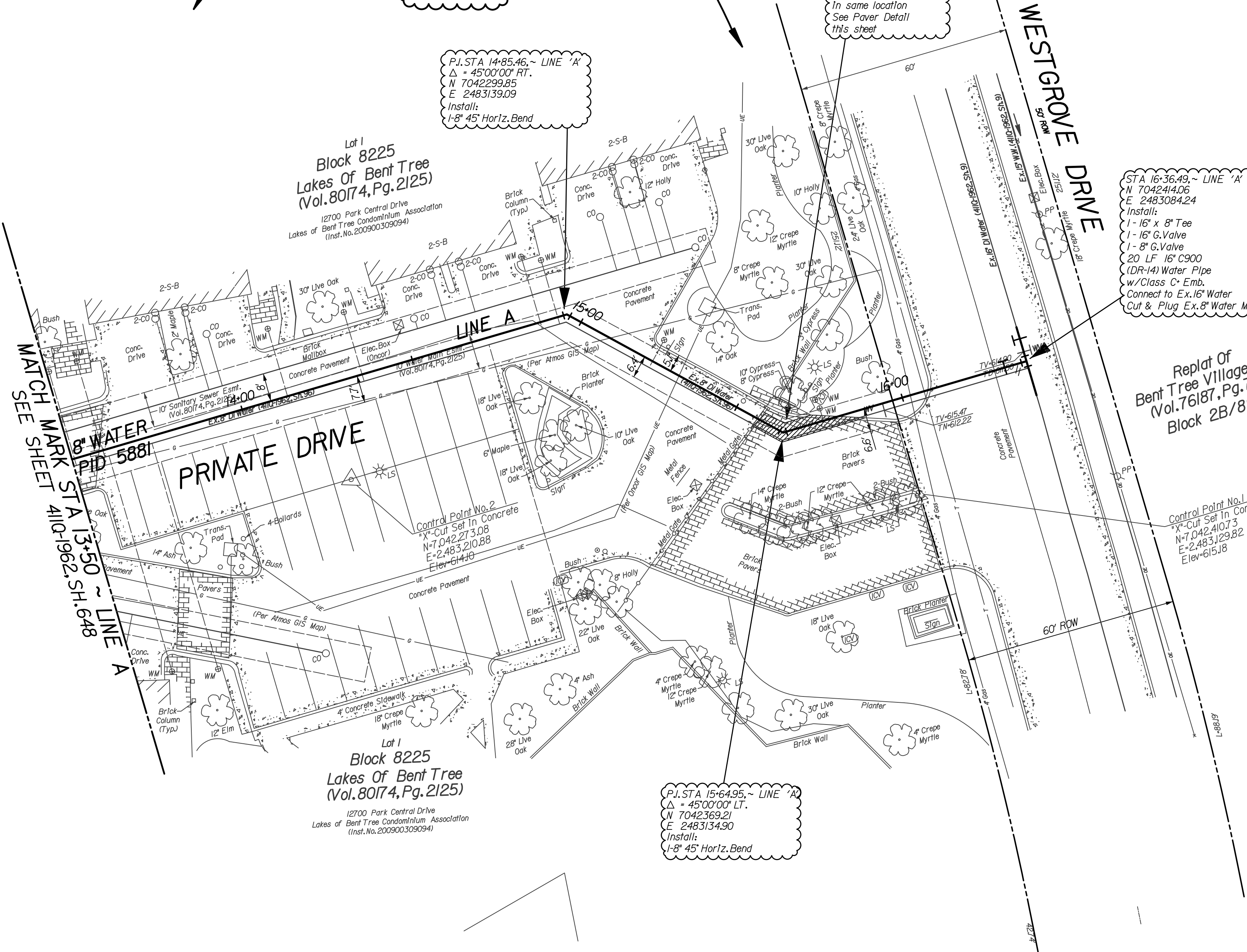
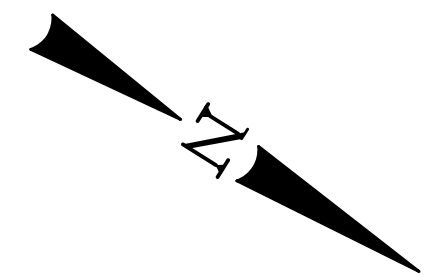
P.I. STA 14+85.46 ~ LINE 'A'
Δ = 45°00'00" RT.
N 7042299.85
E 2483139.09
Install:
1-8" 45° Horiz. Bend

STA 16+36.49 ~ LINE 'A'
N 7042414.06
E 2483084.24
Install:
1-16" x 8" Tee
1-16" G. Valve
1-8" G. Valve
20 LF 16" C900
(DR-14) Water Pipe
w/Class C Emb.
Connect to Ex. 16" Water
Cut & Plug Ex. 8" Water Main

Replat Of
Bent Tree Village No.1
(Vol. 76187, Pg. 774)
Block 2B/8229

Control Point No.1
X-Cut Set In Concrete
N=7,042,410.73
E=2,483,129.82
Elev=615.18

P.I. STA 15+64.95 ~ LINE 'A'
Δ = 45°00'00" LT.
N 7042369.21
E 2483134.90
Install:
1-8" 45° Horiz. Bend



BRICK PAVER DETAIL
NTS

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&S 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 DNU Personnel ONLY.
Contact DNU Meter Reading Operations
(MRO) 5 working days in advance.
Tel: 214-675-5337
Email: DNUMRO@dallascityhall.com

REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1				
2				

BENCHMARKS & CONTROL POINTS

BENCHMARK: 04-R-15
A Standard Water Department Bench Mark. Is set on top of a concrete curb at the end of an island at the centerline of Westgrove Place and on the North side of Westgrove Drive (Between Vista Meadow Drive and Club Hill Drive).
ELEV = 611.07

BENCHMARK: 04-L-1
A square is cut on the North concrete curb of Knoll Trail Drive, in front of a Fire Hydrant at Northeast corner of the intersection.
ELEV = 632.26

Point	Northing	Easting	Elev.	Description
1	7042410.73	2483129.82	615.18	X CUT
2	7042273.08	2483210.88	614.10	X CUT

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

REFERENCES

WATER
3W-22 & 3W-23

WASTEWATER
3S-22 & 3S-23

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH: 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MEREDITH G. McCALL, P.E. 105081 ON 3/2/2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

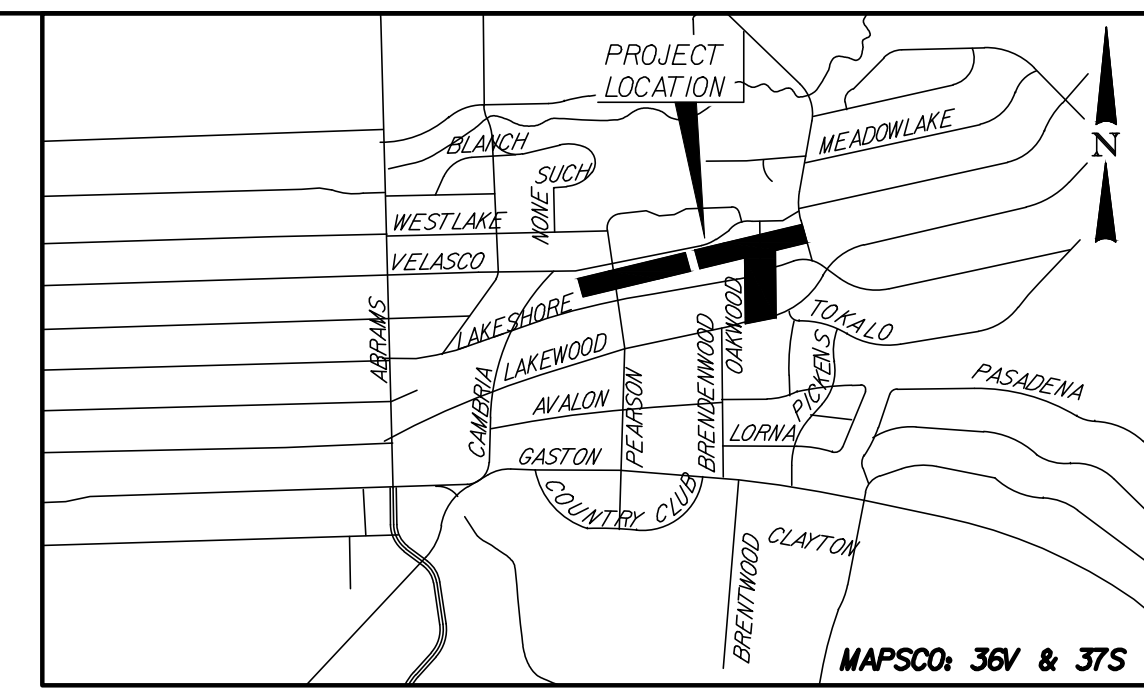
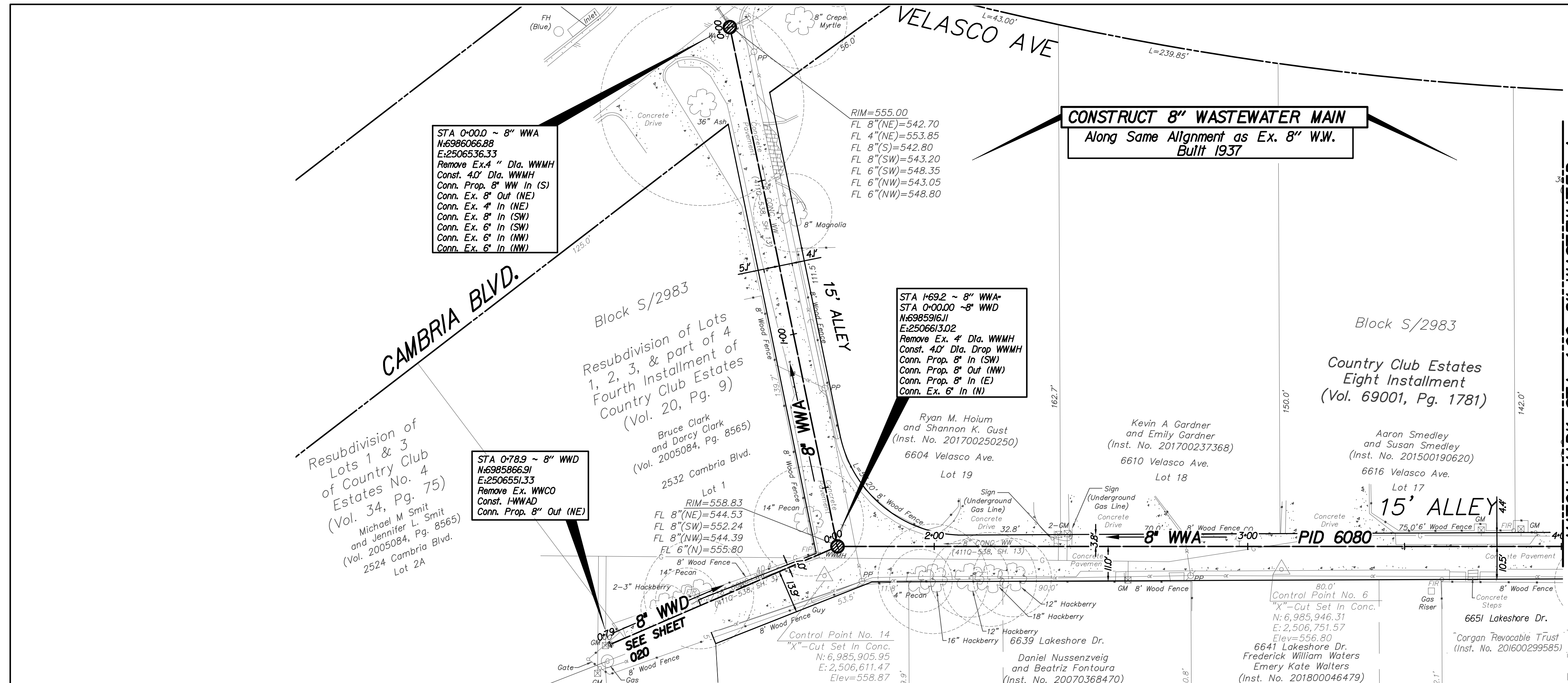
CONTRACT NO. 21-049/050 **PID: 5881**

PROPOSED 8" WATER MAIN
ESMT NORTH OF KNOLL TRAIL DRIVE
FROM WESTGROVE DRIVE EAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	MAR 2021	411Q	1962	649

- Notes:
- Contractor shall restore site to original condition.
 - Contractor shall utilize the southwest entrance gate located off of Knoll trail for egress and ingress onto the site. Contractor shall protect brick pavers at entrance with steel plates and shall remove and replace any disturbed paving restoring to original condition. Coordinate with property owner for gate access code contact owner representative at 954-415-1465.
 - Construction work time shall be between the hours of 9 am to 5:30 pm. Construction equipment hours of operation shall be from 10 am to 5:30 pm.
 - Contractor shall protect all trees on site and shall notify the Inspector/engineer if any trimming is required to complete the work prior to starting the work.
 - Contractor to remove and replace pavers as necessary for trenching activity. Concrete subbase and subgrade should match existing strength, reinforcement, and thickness. Concrete subbase replacement should follow City of Dallas Street Repair standards. Sand bedding and Paver placement shall match existing. Contractor to field verify and notify engineer of material for City approval.

MA-DWG-4249-19.07-DSM/NCI/N/PID 5881 - Knoll/4249 - PP03.dgn



STA 0+00.0 ~ 8" WWA
 N:6986066.88
 E:2506536.33
 Remove Ex. 4" Dia. WWMH
 Const. 4.0' Dia. WWMH
 Conn. Prop. 8" WW In (S)
 Conn. Ex. 8" Out (NE)
 Conn. Ex. 4" In (NE)
 Conn. Ex. 8" In (SW)
 Conn. Ex. 6" In (SW)
 Conn. Ex. 6" In (NW)
 Conn. Ex. 6" In (NW)

RIM=555.00
 FL 8"(NE)=542.70
 FL 4"(NE)=553.85
 FL 8"(S)=542.80
 FL 8"(SW)=543.20
 FL 6"(SW)=548.35
 FL 6"(NW)=543.05
 FL 6"(NW)=548.80

STA 1+69.2 ~ 8" WWA
 STA 0+00.00 ~ 8" WWD
 N:6985916.11
 E:2506613.02
 Remove Ex. 4" Dia. WWMH
 Const. 4.0' Dia. Drop WWMH
 Conn. Prop. 8" In (SW)
 Conn. Prop. 8" Out (NW)
 Conn. Prop. 8" In (E)
 Conn. Ex. 6" In (N)

STA 0+78.9 ~ 8" WWD
 N:6985866.91
 E:2506551.33
 Remove Ex. WWC0
 Const. WWCAD
 Conn. Prop. 8" Out (NE)

CONSTRUCT 8" WASTEWATER MAIN
 Along Same Alignment as Ex. 8" W.W.
 Built 1937

MATCH MARK STA 4+00 8" WASTEWATER A
 See Sheet 41IQ-0538.Sh014

CAUTION ~ RETAINING WALL !
 Contractor To Protect In Place All Existing Retaining Walls, Damaged Walls To Be Replaced At Contractor's Expense
 Tele: 1-800-344-8377

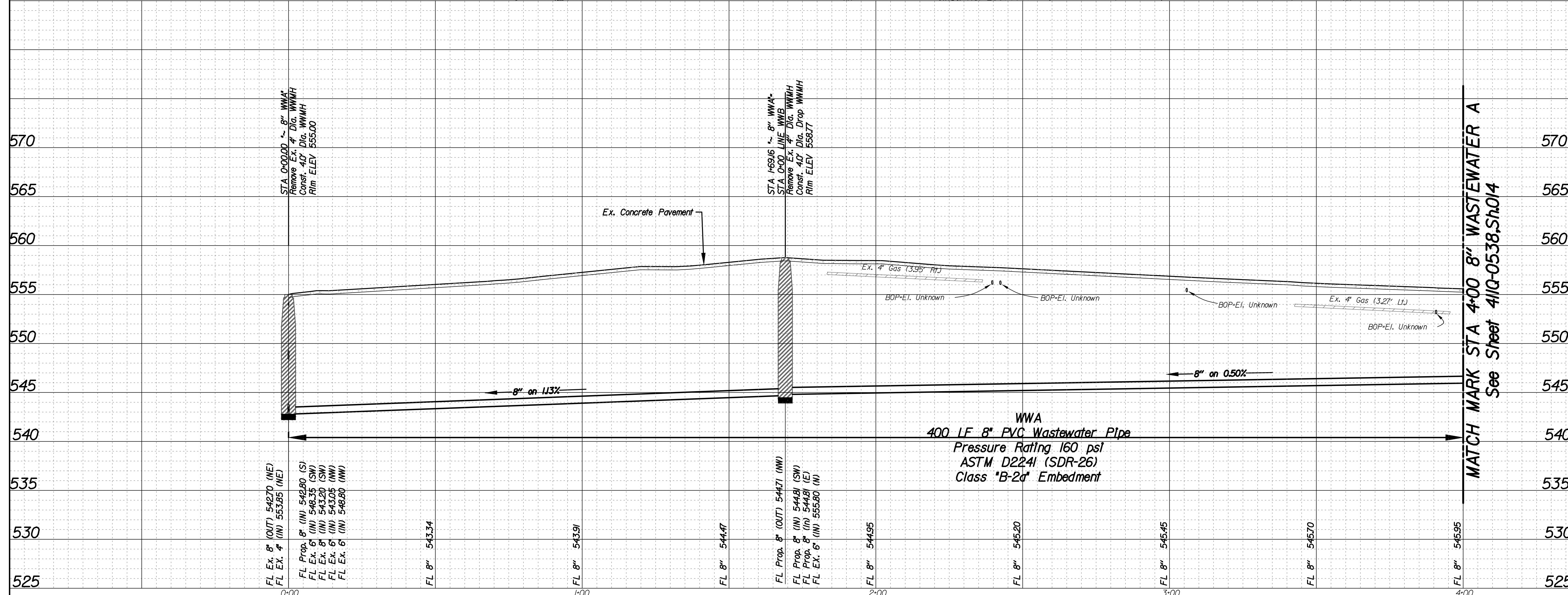
CAUTION ~ TELEPHONE !
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CAUTION ~ FIBER OPTIC !
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CAUTION ~ POWER !
 Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction.
 Tele: 1-800-344-8377

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
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 Email: DMUMRO@dallascityhall.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07

36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69

36-V-4 A SQUARE CUT ON THE CENTER OF A 1' BY 3' INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51

Point	Northing	Easting	Elev.	Description
14	6,985,905.95	2,506,611.47	558.87	X CUT
6	6,985,946.31	2,506,751.57	556.80	X CUT

Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 6'

REFERENCES

WATER
 31-30W, 31-31W, 30-31W

WASTEWATER
 31-30S, 31-31S, 30-31S

Pacheco Koch 7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000

CONTRACT NO. 21-049/050 PID: 6080

8" WASTEWATER MAIN
 ALLEY BETWEEN LAKESHORE DR & VELASCO AVE
 CAMBRIA BLVD TO WENDOVER RD
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
KCM	AMP	JAN 2021	41IQ	0538	013

VELASCO AVE

CONSTRUCT 8" WASTEWATER MAIN
Along Same Alignment as Ex. 8" W.W.
Built 1937

STA 8+52.4 ~ 8" WWA
N:6986080.08
E:2507275.71
Remove Ex. WWCO
Const. 4" Dia. WWMH
Conn. Prop. 8" Out (W)

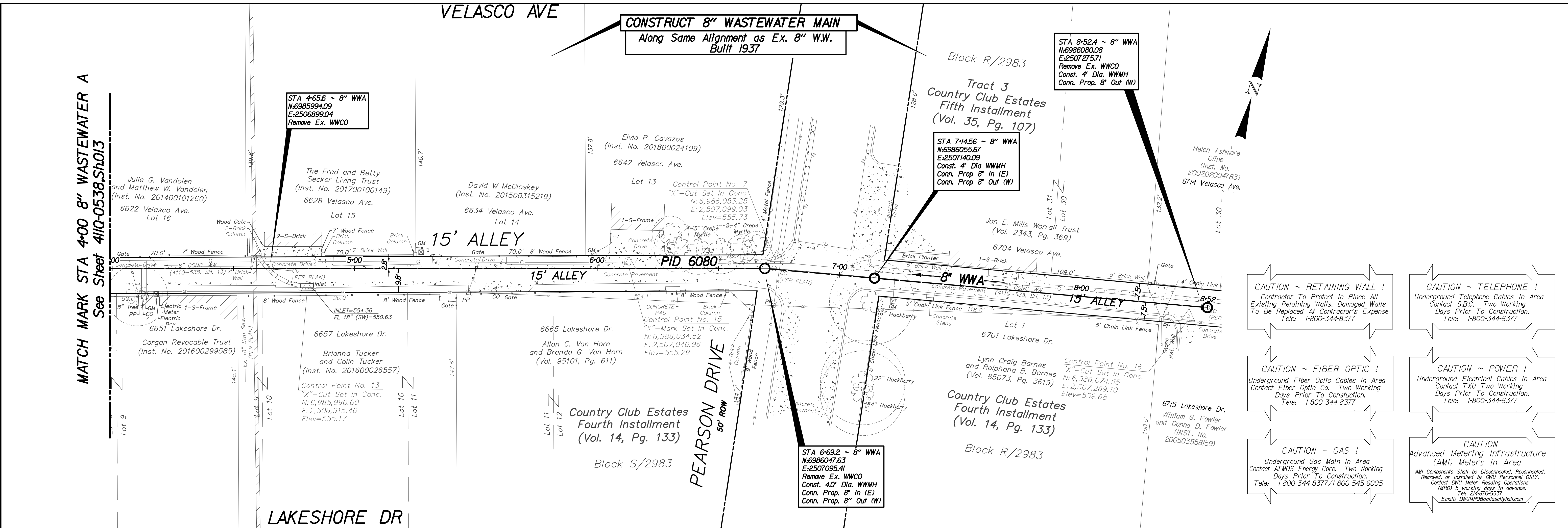
STA 7+45.6 ~ 8" WWA
N:6986055.67
E:2507140.09
Const. 4" Dia. WWMH
Conn. Prop. 8" In (E)
Conn. Prop. 8" Out (W)

STA 6+69.2 ~ 8" WWA
N:6986047.63
E:2507095.41
Remove Ex. WWCO
Const. 4.0" Dia. WWMH
Conn. Prop. 8" In (E)
Conn. Prop. 8" Out (W)

STA 4+65.6 ~ 8" WWA
N:6985994.09
E:2506889.04
Remove Ex. WWCO

MATCH MARK STA 4+00 8" WASTEWATER A
See Sheet 4110-0538, Sh.013

MATCH MARK STA 4+00 8" WASTEWATER A
See Sheet 4110-0538, Sh.013



CAUTION ~ RETAINING WALL !
Contractor To Protect In Place All Existing Retaining Walls, Damaged Walls To Be Replaced At Contractor's Expense
Tele: 1-800-344-8377

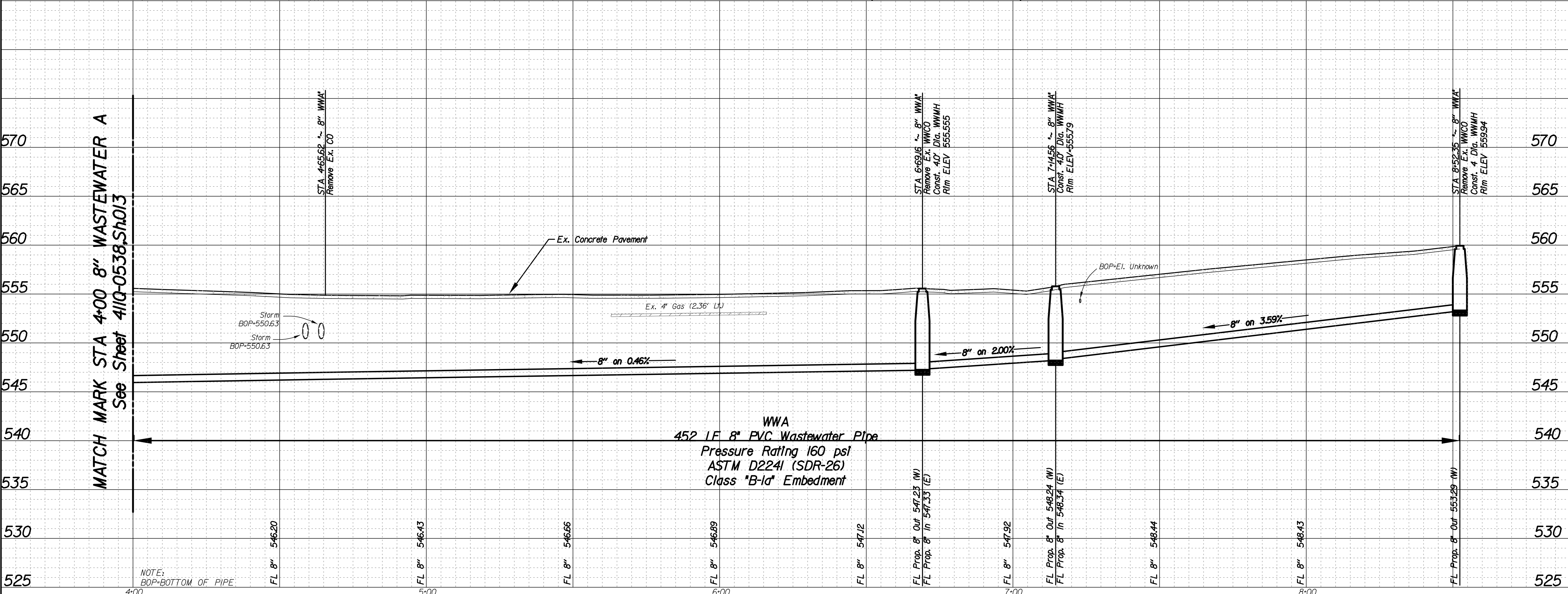
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CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

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&MOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07			
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69			
36-Y-4 A SQUARE CUT ON THE CENTER OF A 1" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51			
Point	Northing	Easting	Elev. Description
13	6,985,990.00	2,506,915.46	555.77 X CUT
15	6,986,034.52	2,507,040.96	555.28 X CUT
7	6,986,053.25	2,507,099.03	555.73 X CUT
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES			
WATER		31-30W, 31-31W, 30-31W	
WASTEWATER		31-30S, 31-31S, 30-31S	
Pacheco Koch		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-1000800	
CONTRACT NO. 21-049/050		PID: 6080	
8" WASTEWATER MAIN			
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE			
CAMBRIA BLVD TO WENDOVER RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
KCM	AMP	JAN 2021	4110
			NUMBER
			0538
			SHEET
			014

VELASCO AVE

CONSTRUCT 8" WASTEWATER MAIN

Abandon Ex. 8" W.W.
Built 1937

Block R/2983

Tract 3
Country Club Estates
Fifth Installment
(Vol. 35, Pg. 107)

STA 7+52.9 ~ 8" WWB
N:698613188
E:2507552.33
Remove Ex. WWCO

STA 6+50.1 ~ 8" WWB
N:6986150.57
E:2507653.40
Const. 4' Dia. WWMH
Conn. Prop. 8" In (W)
Conn. Prop. 8" Out (E)

STA 9+98.3 ~ 8" WWB
N:6986087.41
E:2507311.00
Remove Ex. WWCO
Const. WWAD
Conn. Prop. 8" Out (E)

Helen Ashmore Cline
(Inst. No. 200212004783)
6714 Velasco Ave.

Andrew V. Nevitt
and Wendy R. Nevitt
(Inst. No. 201200264268)
6720 Velasco Ave.

Craig D. Rubin
and Dorothy M. Sendelbach
(Vol. 94081, Pg. 5308)
6732 Velasco Ave.

Michael J. Heath
and Amy L. Heath
(Inst. No. 201200018724)
6740 Velasco Ave.

William J. Schuerger
and Susan R. Schuerger
(Vol. 93064, Pg. 3963)
6808 Velasco Ave.

6715 Lakeshore Dr.
William G. Fowler
and Donna D. Fowler
(INST. No. 200503558159)

6725 Lakeshore Dr.
Kenneth Maurice Brantferger
and Doris Faye Brantferger
(Vol. 94192, Pg. 2484)

6733 Lakeshore Dr.
Michele S. Huff
(Inst. No. 20070373365)

6745 Lakeshore Dr.
Christopher Miller
and Patricia R. Miller
(Inst. No. 20070028511)

6745 Lakeshore Dr.
Christopher Miller
and Patricia R. Miller
(Inst. No. 20070028511)

LAKESHORE DR

15' ALLEY

MATCH MARK STA 6+00 8" WASTEWATER B
See Sheet 410-0538, Sh.016

CAUTION ~ RETAINING WALL !
Contractor To Protect In Place All Existing Retaining Walls, Damaged Walls To Be Replaced At Contractor's Expense
Tele: 1-800-344-8377

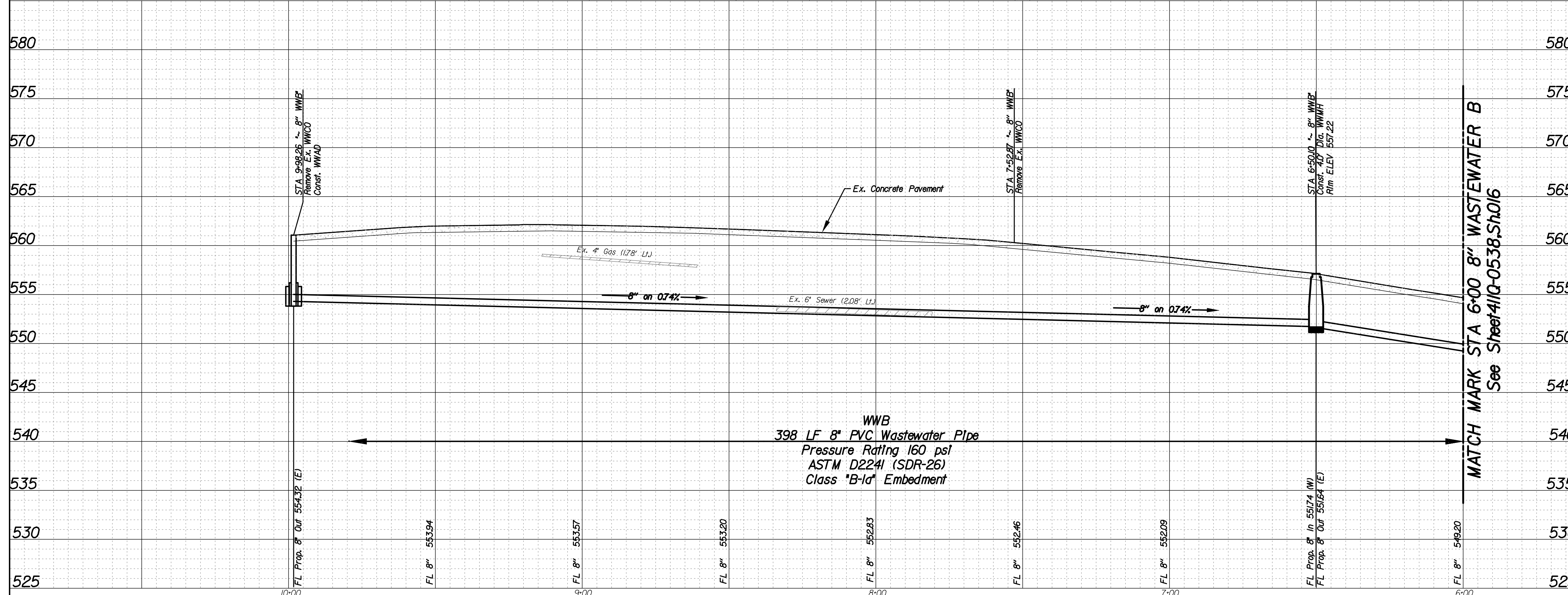
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

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 AMOS 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
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Email: DMUMRO@dallascityhall.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07

36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69

36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51

Point	Northing	Easting	Elev.	Description
17	6,986,108.68	2,507,460.31	561.73	NAIL IN CONCRETE
8	6,986,127.61	2,507,565.32	559.87	X CUT

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

REFERENCES

WATER
31-30W, 31-31W, 30-31W

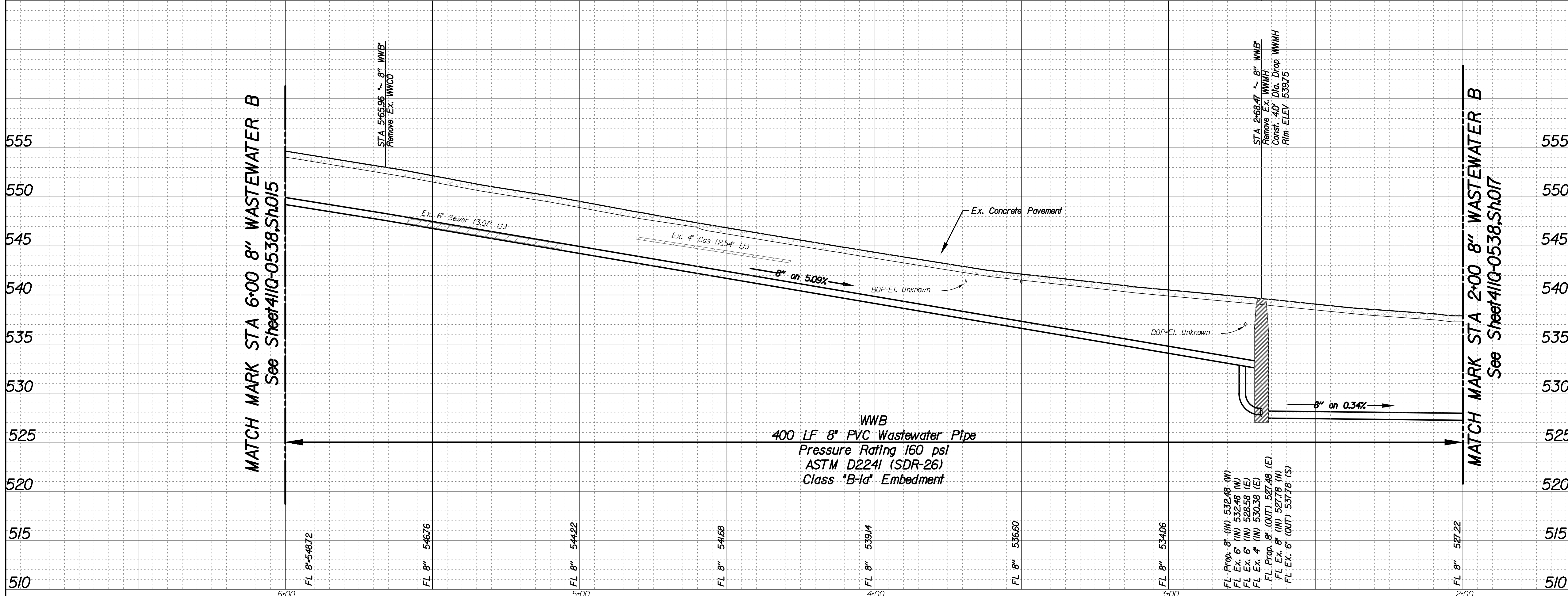
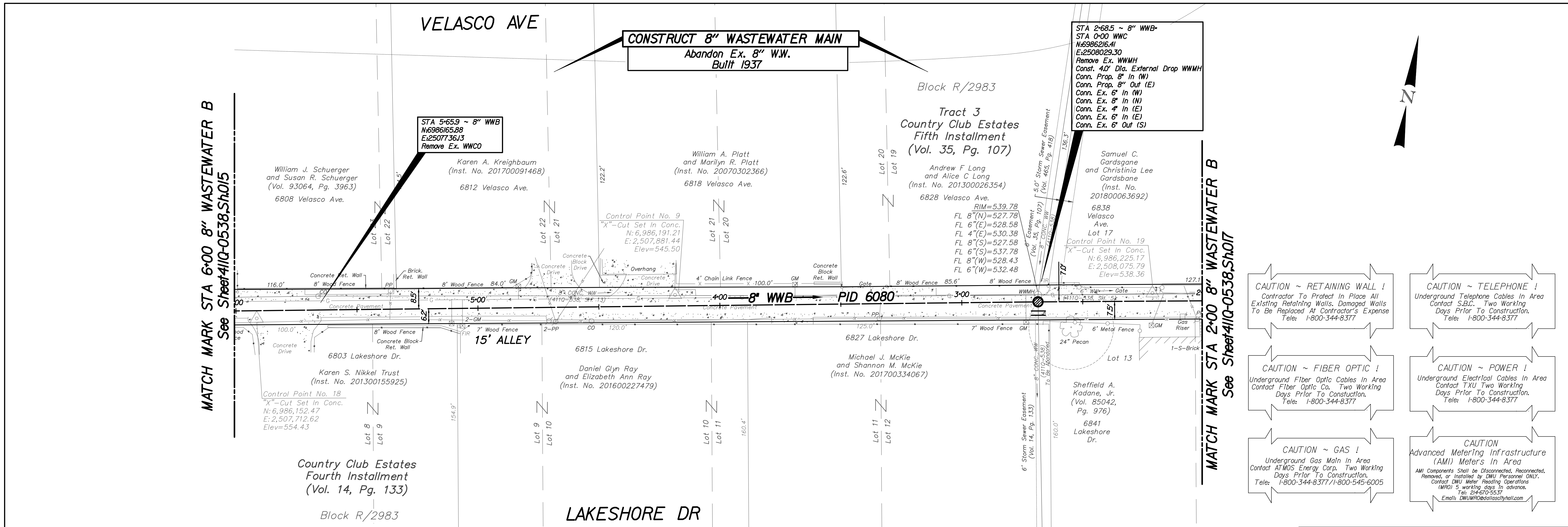
WASTEWATER
31-30S, 31-31S, 30-31S

Pacheco Koch
7557 RAMBLER ROAD SUITE 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

CONTRACT NO. 21-049/050 | PID: 6080

8" WASTEWATER MAIN
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE
CAMBRIA BLVD TO WENDOVER RD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
KCM	AMP	JAN 2021	410	0538	015

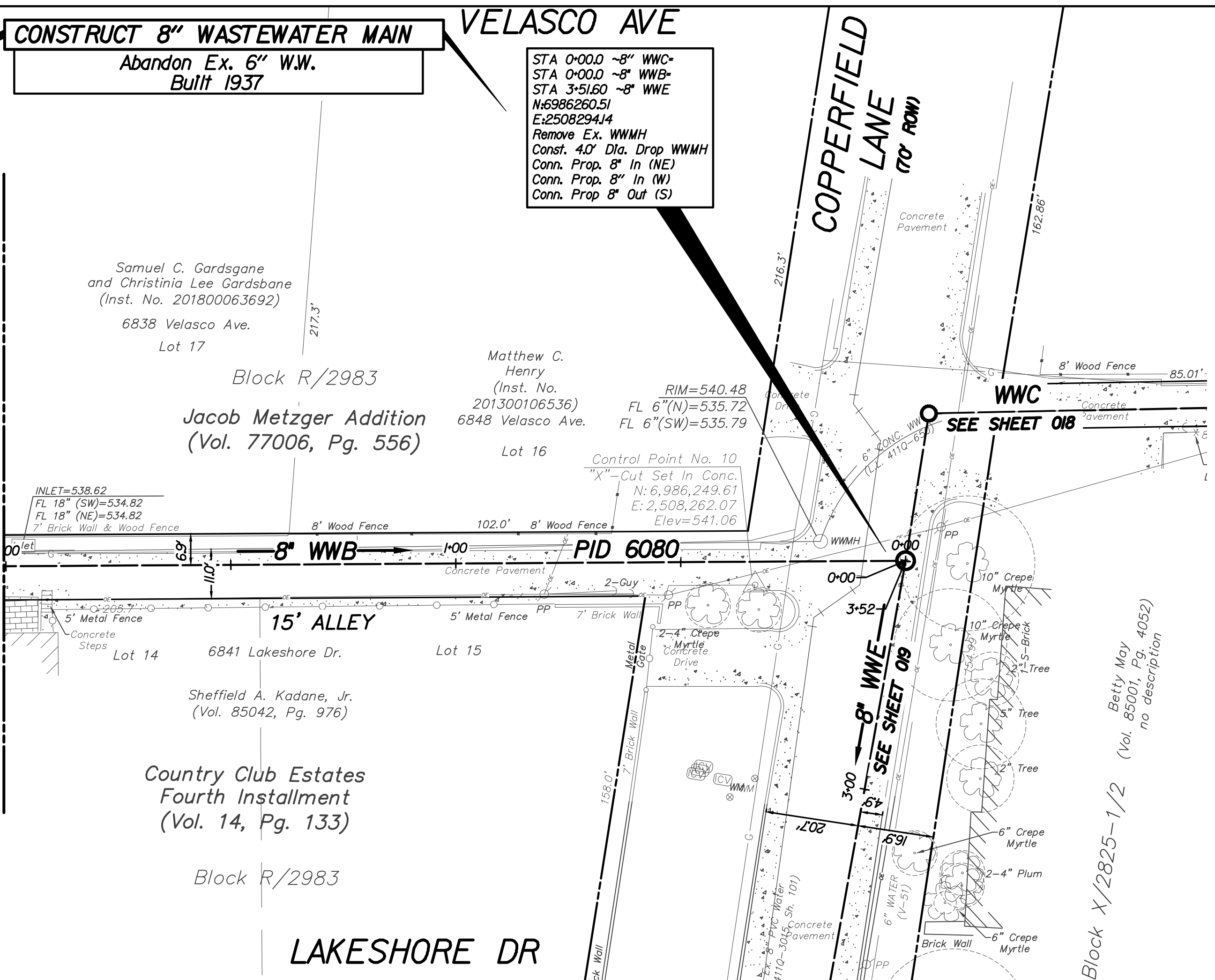


REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07			
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69			
36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51			
Point	Northing	Easting	Elev. Description
18	6,986,152.47	2,507,712.62	554.43 X CUT
9	6,986,191.21	2,507,881.44	545.50 X CUT
19	6,986,225.17	2,507,075.79	538.36 X CUT
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 			
REFERENCES WATER 31-30W, 31-31W, 30-31W WASTEWATER 31-30S, 31-31S, 30-31S			
		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000	
CONTRACT NO. 21-049/050		PID: 6080	
8" WASTEWATER MAIN			
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE			
CAMBRIA BLVD TO WENDOVER RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
KCM	AMP	JAN 2021	411Q
			NUMBER
			0538
			SHEET
			016

CONSTRUCT 8" WASTEWATER MAIN
Abandon Ex. 6" W.W.
Built 1937

STA 0+00.0 ~8" WWC
STA 0+00.0 ~8" WWB
STA 3+51.60 ~8" WWC
N:6986260.51
E:2508262.07
Remove Ex. WMMH
Const. 40" Dia. Drop WMMH
Conn. Prop. 8" In (NE)
Conn. Prop. 8" In (W)
Conn. Prop. 8" Out (S)

MATCH MARK STA 2+00 8" WASTEWATER B
See Sheet 411Q-0538, Sh.016



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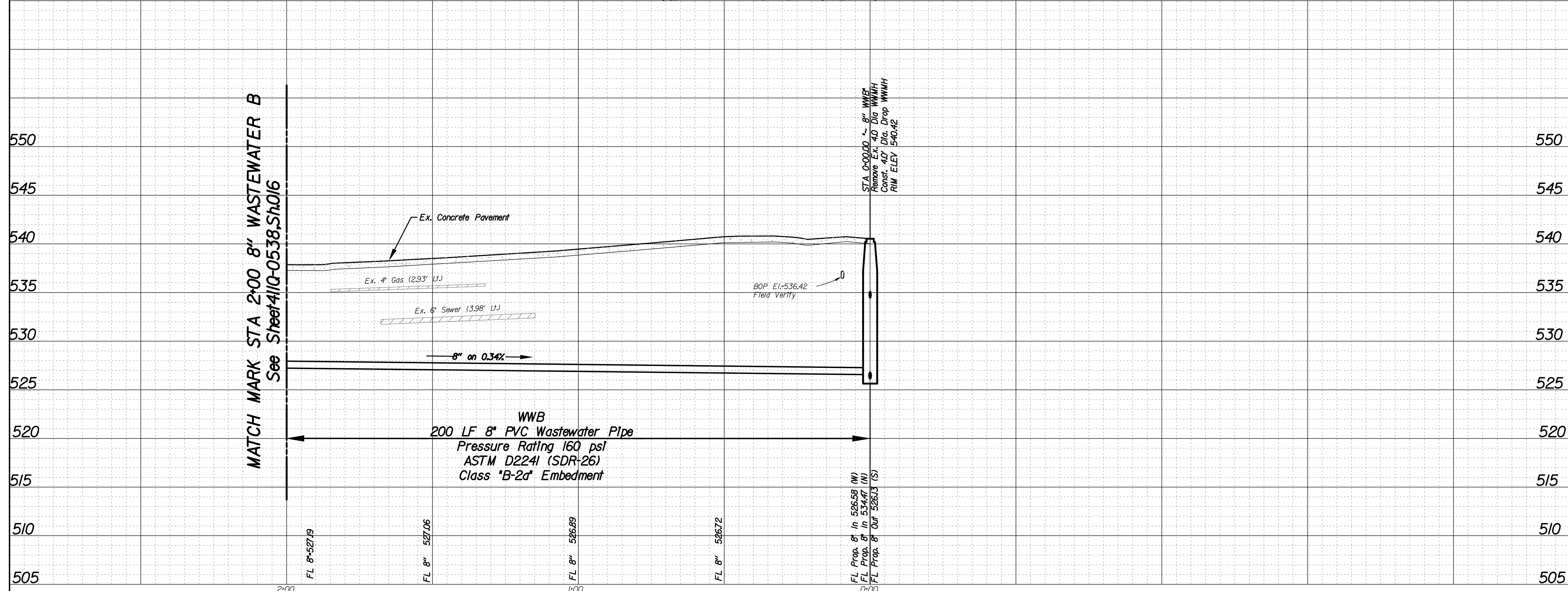
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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

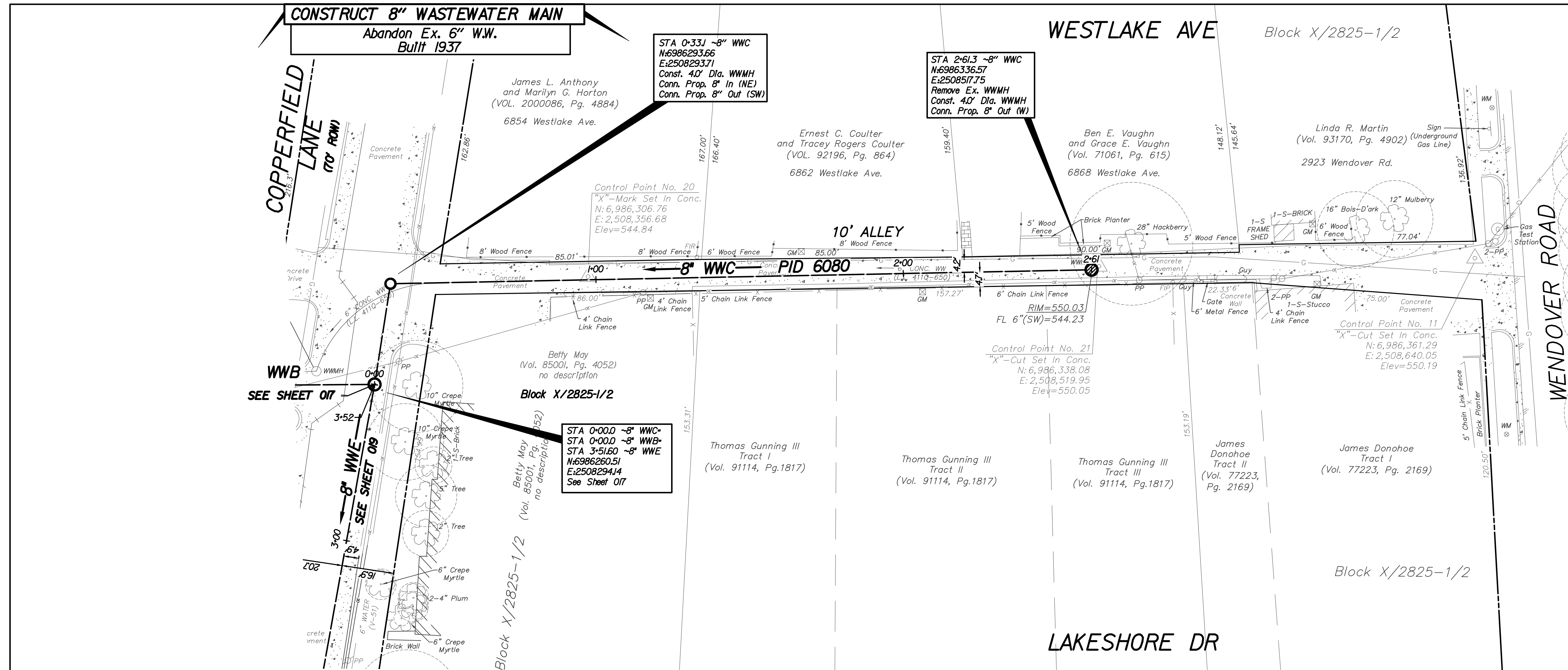
CAUTION ~ GAS !
Underground Gas Main In Area
Contact Atmos Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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Removed, or Installed by DWU Personnel ONLY.
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MATCH MARK STA 2+00 8" WASTEWATER B
See Sheet 411Q-0538, Sh.016



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Point	Northing	Easting	Elev. Description
10	6,986,249.61	2,508,262.07	541.06 X CUT
20	6,986,306.76	2,508,356.68	544.84 X CUT
19	6,986,225.17	2,508,075.79	538.36 X CUT
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES			
WATER 31-30W, 31-31W, 30-31W			
WASTEWATER 31-30S, 31-31S, 30-31S			
Pacheco Koch		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-1000800	
CONTRACT NO. 21-049/050		PID: 6080	
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CAMBRIA BLVD TO WENDOVER RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
KCM	AMP	JAN 2021	411Q 0538 017



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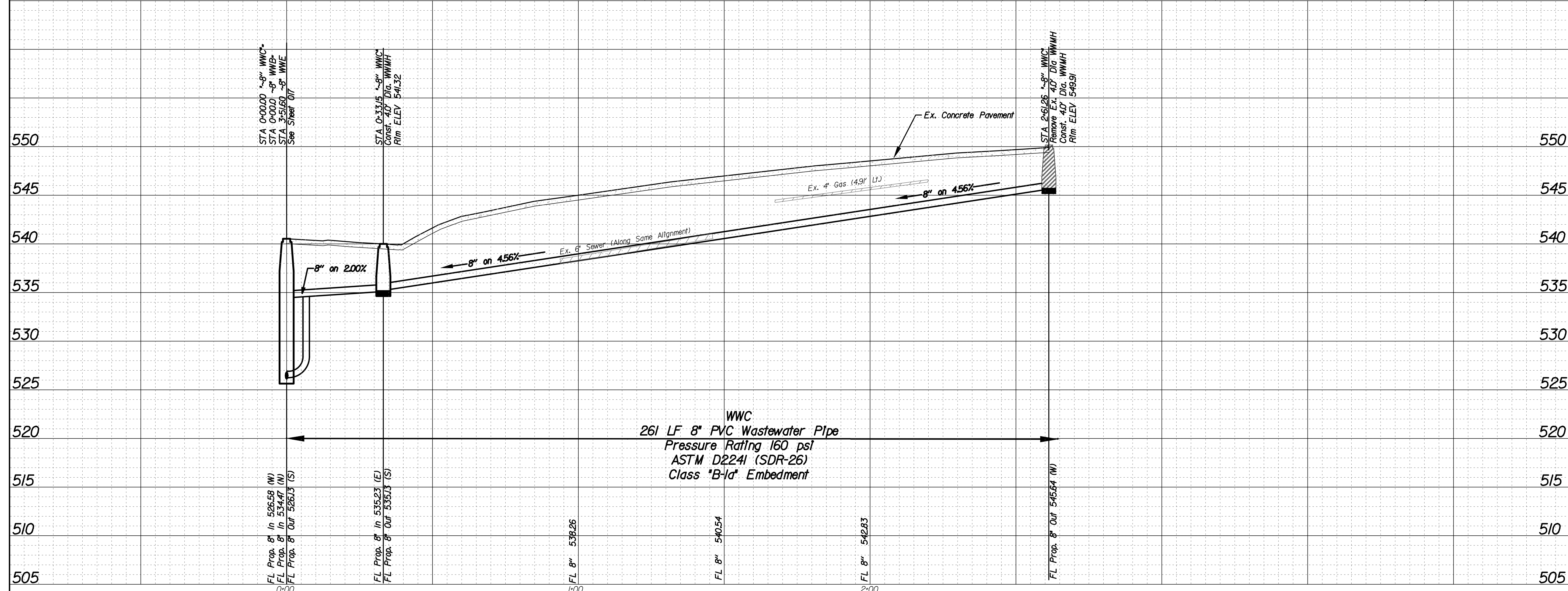
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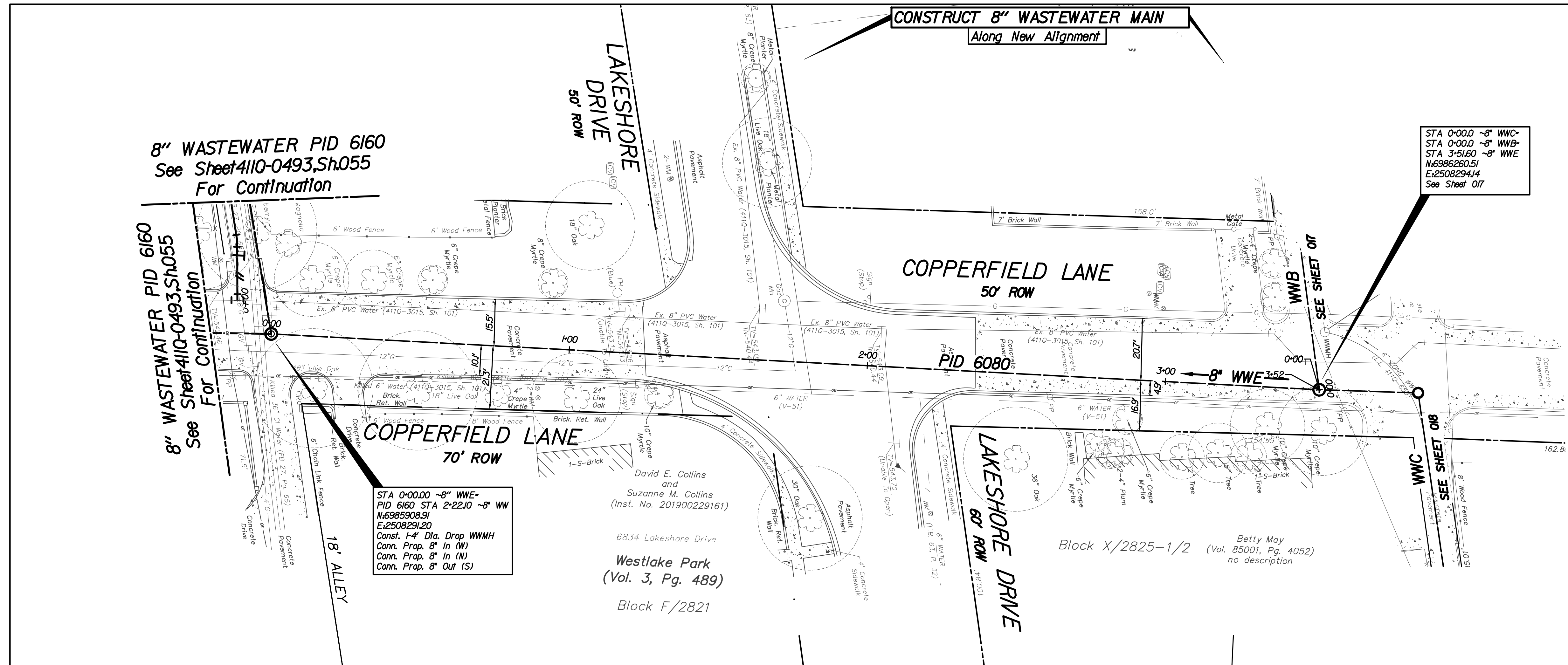
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CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by DMU Personnel ONLY. Contact DMU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-770-5537
Email: DMUMRO@dallascityhall.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07			
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD, ELEV=544.69			
36-Y-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51			
Point	Northing	Easting	Elev. Description
10	6,986,249.61	2,508,262.07	541.06 X CUT
20	6,986,306.76	2,508,356.68	544.84 X CUT
19	6,986,225.17	2,508,075.79	538.36 X CUT
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES WATER 31-30W, 31-31W, 30-31W WASTEWATER 31-30S, 31-31S, 30-31S			
Pacheco Koch		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000	
CONTRACT NO. 21-049/050		PID: 6080	
8" WASTEWATER MAIN			
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE			
CAMBRIA BLVD TO WENDOVER RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
KCM	AMP	JAN 2021	4110 0538 018



8" WASTEWATER PID 6160
See Sheet 4110-0493, Sh. 055
For Continuation

8" WASTEWATER PID 6160
See Sheet 4110-0493, Sh. 055
For Continuation

CONSTRUCT 8" WASTEWATER MAIN
Along New Alignment

STA 0+00.00 ~8" WWC-
STA 0+00.00 ~8" WWB-
STA 3+51.60 ~8" WWC
N: 6398260.51
E: 2508294.14
See Sheet 017

STA 0+00.00 ~8" WWC-
PID 6160 STA 2+22.10 ~8" WW
N: 63985908.91
E: 2508291.20
Const. 1-4" Dia. Drop WWMH
Conn. Prop. 8" In (W)
Conn. Prop. 8" In (N)
Conn. Prop. 8" Out (S)

CAUTION ~ RETAINING WALL !
Contractor To Protect In Place All
Existing Retaining Walls, Damaged Walls
To Be Replaced At Contractor's Expense
Tele: 1-800-344-8377

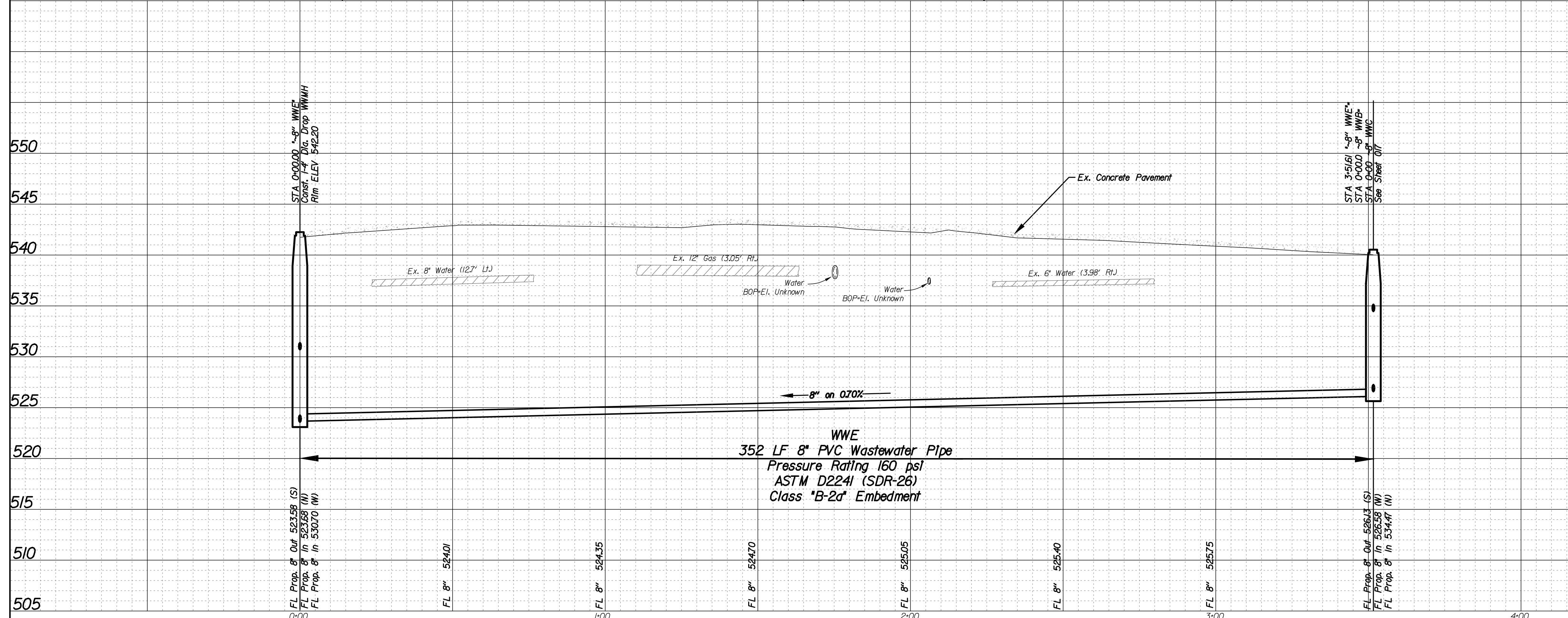
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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

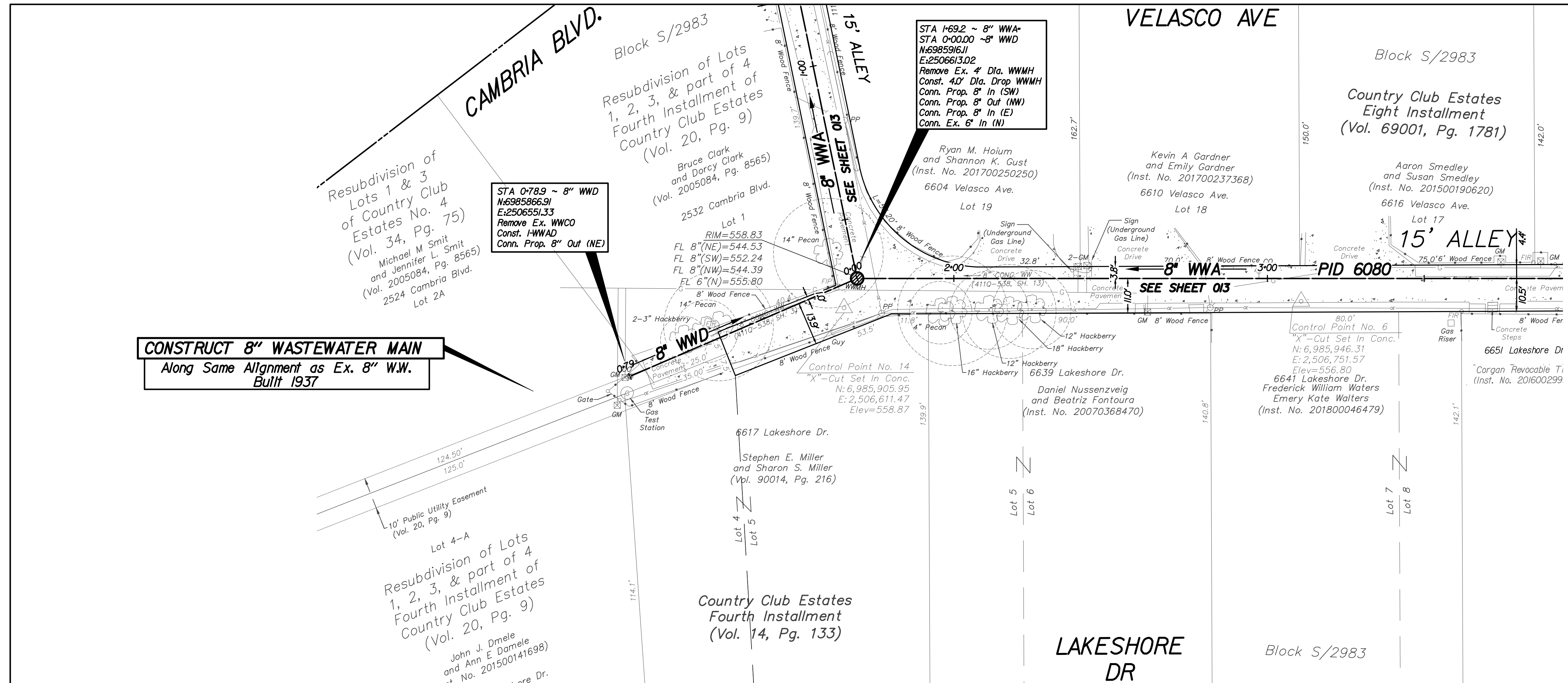
CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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 DMU Personnel ONLY.
Contact DMU Meter Reading Operations
(MRO) 5 working days in advance.
Tel: 214-770-3537
Email: DMUMRO@dallascityhall.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07			
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69			
36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51			
Point	Northing	Easting	Elev. Description
10	6,986,249.61	2,508,262.07	541.06 X CUT
20	6,986,306.76	2,508,356.68	544.84 X CUT
19	6,986,225.17	2,508,075.79	538.36 X CUT
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES WATER 31-30W, 31-31W, 30-31W WASTEWATER 31-30S, 31-31S, 30-31S			
Pacheco Koch		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-1000800	
CONTRACT NO. 21-049/050		PID: 6080	
8" WASTEWATER MAIN			
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE			
CAMBRIA BLVD TO WENDOVER RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
KCM	AMP	JAN 2021	4110 0538 019



CAUTION ~ RETAINING WALL !
Contractor To Protect In Place All Existing Retaining Walls, Damaged Walls To Be Replaced At Contractor's Expense
Tele: 1-800-344-8377

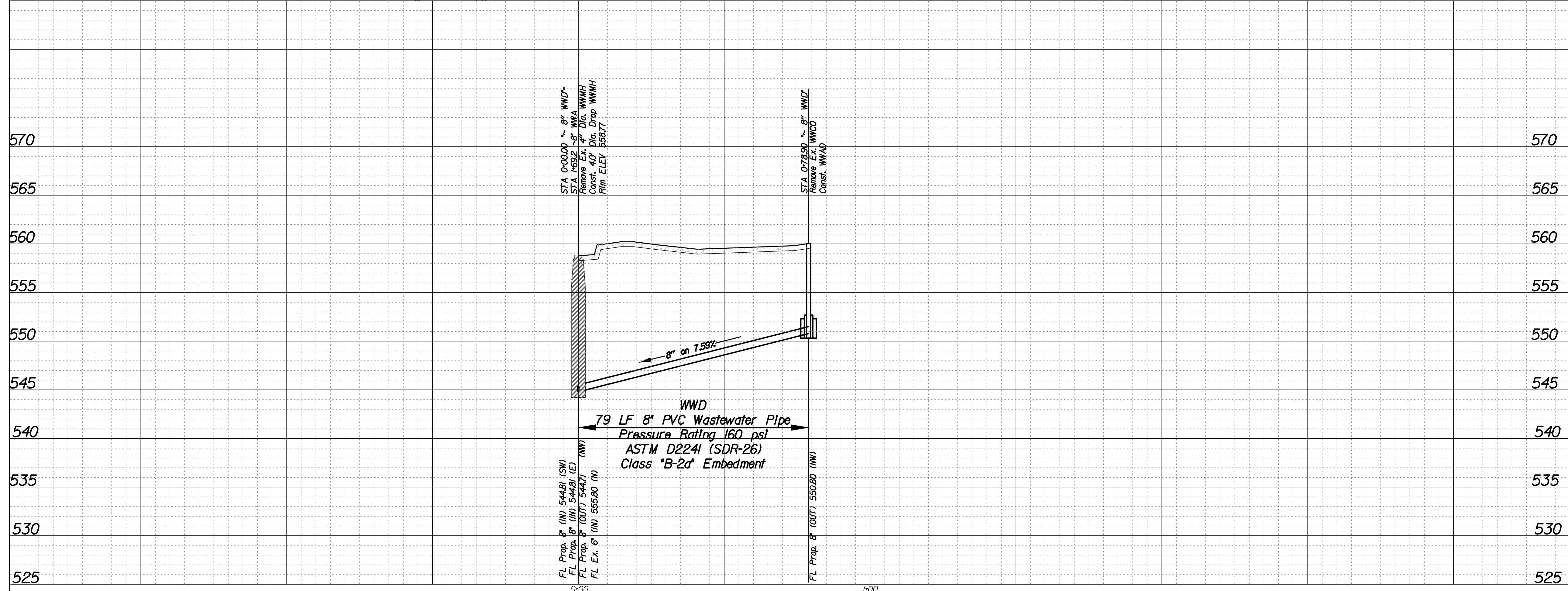
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact TXU 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, Removed, or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations (MRO) 5 working days in advance.
Email: DWUMRO@dallascityhall.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07

36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69

36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51

Point	Northing	Easting	Elev.	Description
14	6,985,905.95	2,506,611.47	558.87	X CUT
6	6,985,946.31	2,506,751.57	556.80	X CUT

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

REFERENCES

WATER
31-30W, 31-31W, 30-31W

WASTEWATER
31-30S, 31-31S, 30-31S

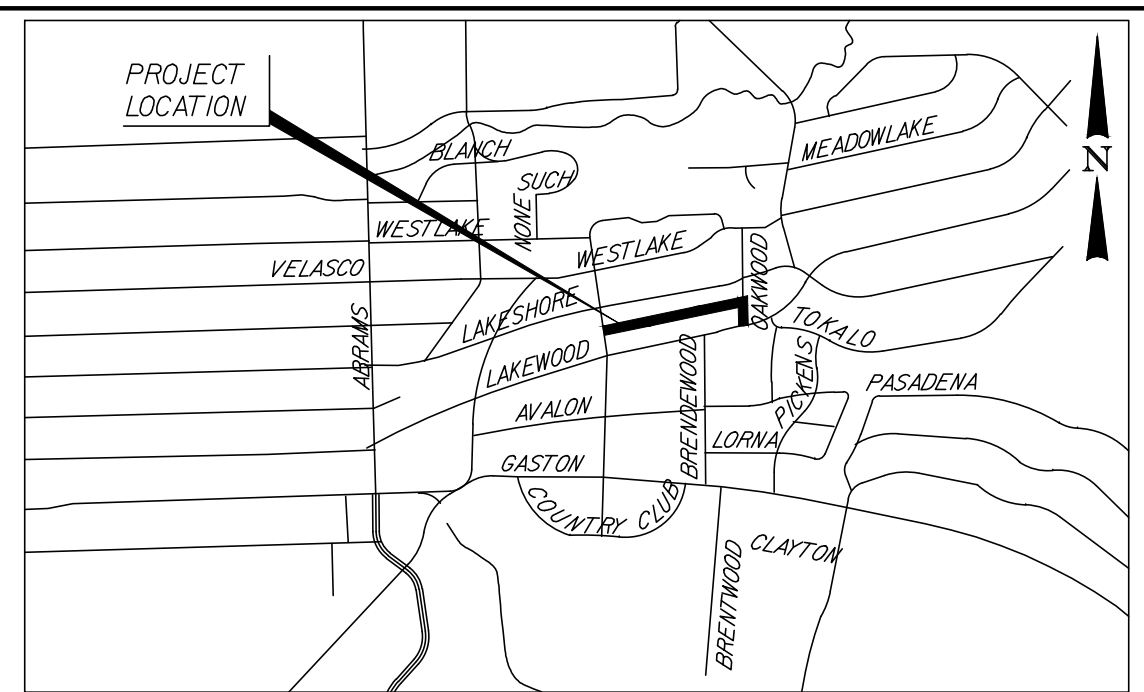
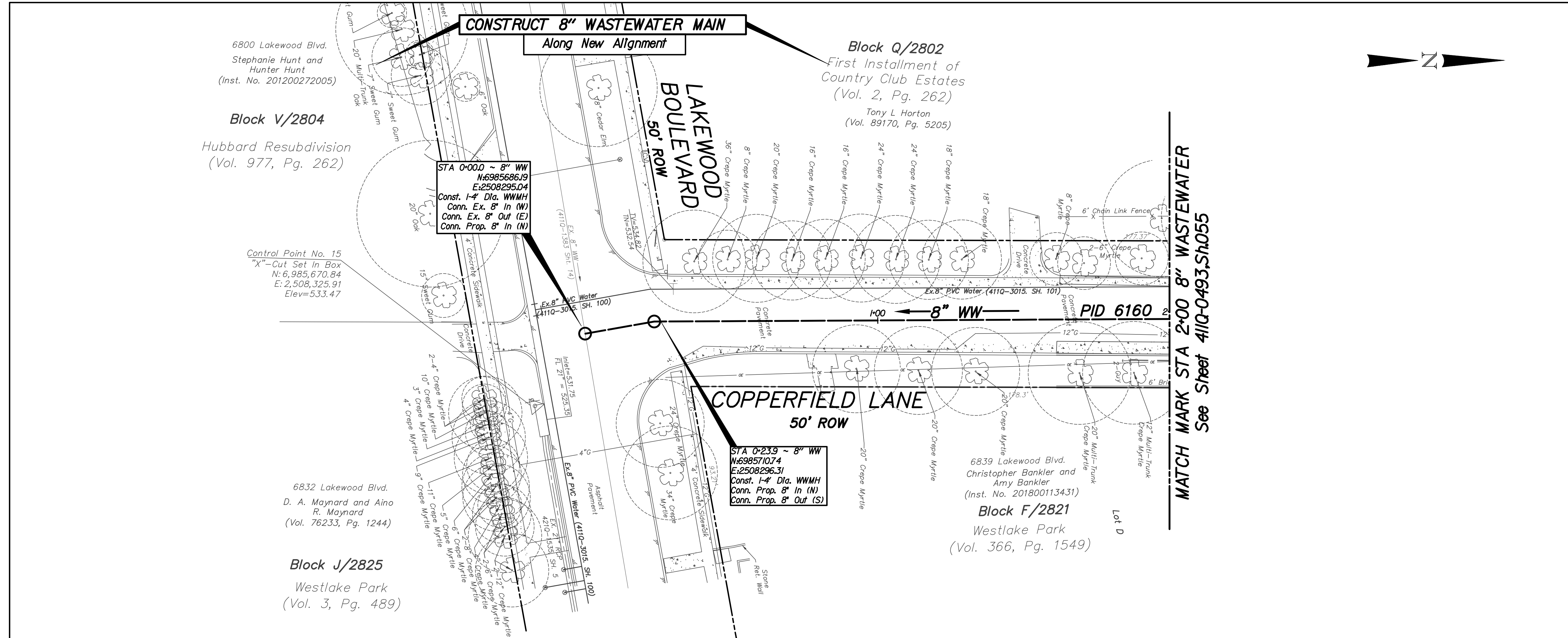
Pacheco Koch
7557 RAMBLER ROAD SUITE 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-1000800

CONTRACT NO. 21-049/050 | PID: 6080

8" WASTEWATER MAIN
ALLEY BETWEEN LAKESHORE DR & VELASCO AVE
CAMBRIA BLVD TO WENDOVER RD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
KCM	AMP	JAN 2021	411Q	0538	020

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 2/10/21
 4:24 PM
 3/10/21
 10:00 AM
 CSD 2018-650-4249-19-07-660-DNU-UT-LDNG

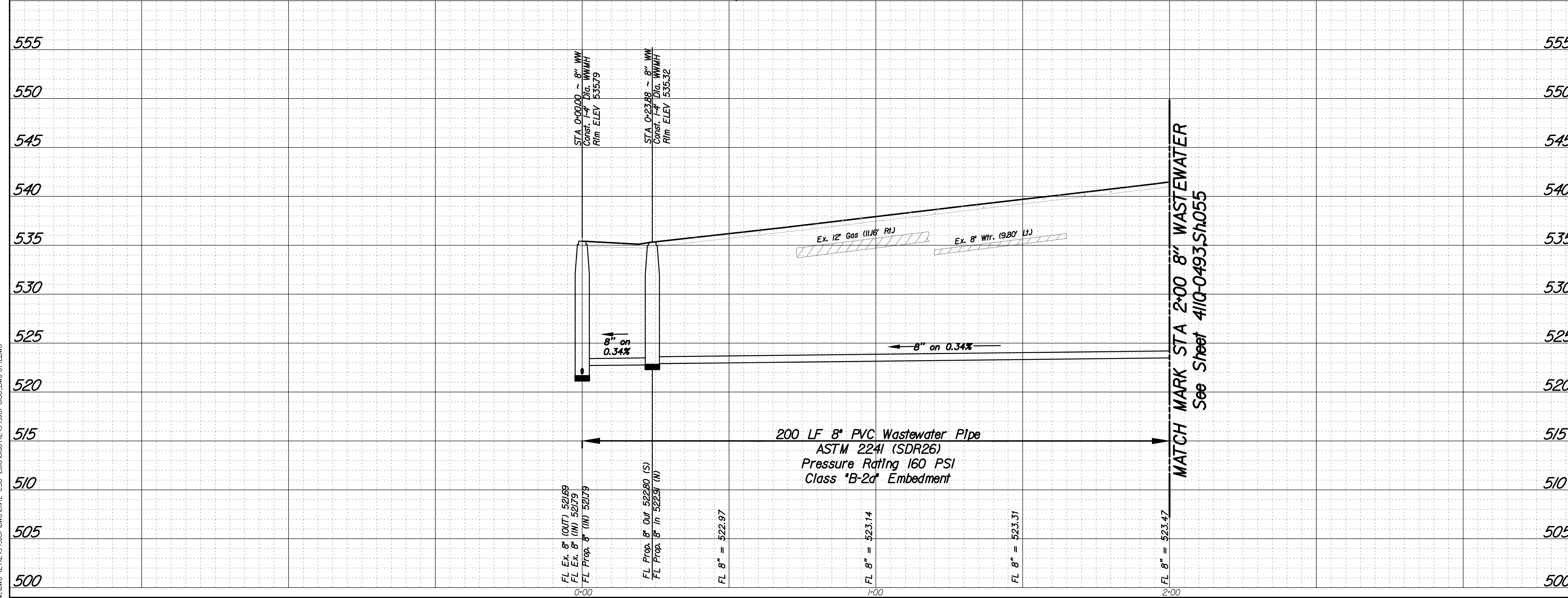


CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact AT&T Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

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

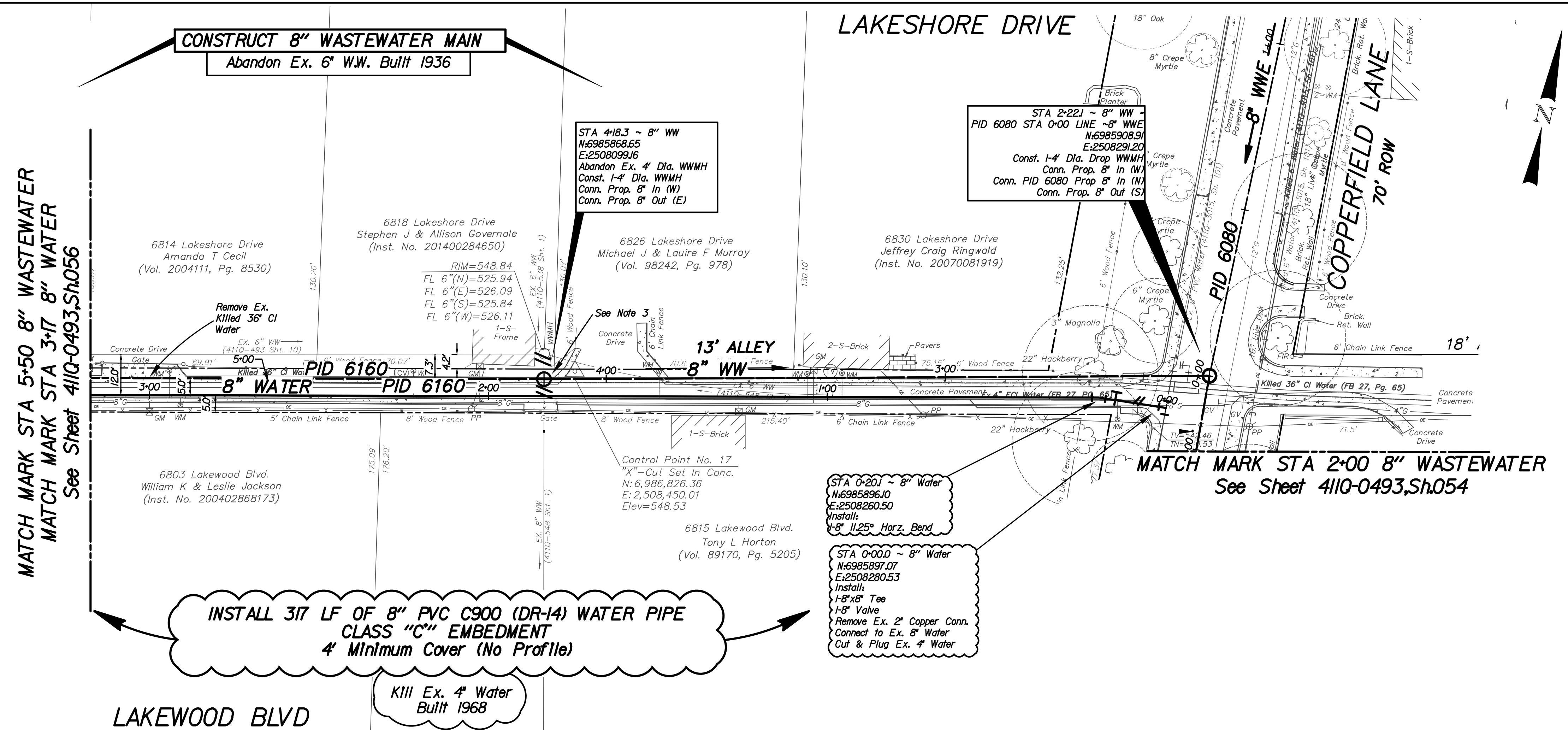
CAUTION ~ POWER !
 Underground Electrical Cables In Area
 Contact TXU Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377

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



REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1				
BENCHMARKS & CONTROL POINTS				
555		36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07		
550		36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69		
545		36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51		
540		Point		
	Northing	Easting	Elev. Description	
	15	6,985,670.84	2,508,325.91	533.47 X CUT
	17	6,986,826.36	2,508,450.01	548.53 X CUT
535		Horizontal Scale: 1" = 20'		
		Vertical Scale: 1" = 6'		
530				
525		REFERENCES WATER 3131-W WASTEWATER 3131-S		
520				
515		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000		
510		CONTRACT NO. 21-049/050 PID: 6160 8" WATER & 8" WASTEWATER MAIN ALLEY BETWEEN LAKESHORE DR & LAKEWOOD BLVD FROM PEARSON DR TO COPPERFIELD LN DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS		
505		DESIGN	FILE	
	RCM	411Q		
500		DATE	NUMBER	
	JAN 2021	0493		
		FILE	SHEET	
		411Q	054	

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 411Q-0493-055.DWG
 4/10/21
 5:41 PM
 411Q-0493-055.DWG
 4/10/21
 5:41 PM
 411Q-0493-055.DWG



- NOTES:**
- CONTRACTOR TO INSTALL 4 INCH TEMPORARY WATER LINE FOR SERVICE DURING CONSTRUCTION. CONTRACTOR WILL BE PAID TO REMOVE OLD 36-INCH PIPE AS DIRECTED BY DWU STAFF. CONTRACTOR WILL GET DWU STAFF APPROVAL PRIOR TO REMOVING PIPE
 - CONTRACTOR TO CCTV AND FIELD VERIFY EXISTING SERVICE POINTS AND FLOW LINES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF FLOW LINE ELEVATIONS OR ANY CONCERNS WITH CONNECTING EXISTING SERVICES TO PROPOSED WASTEWATER MAIN.

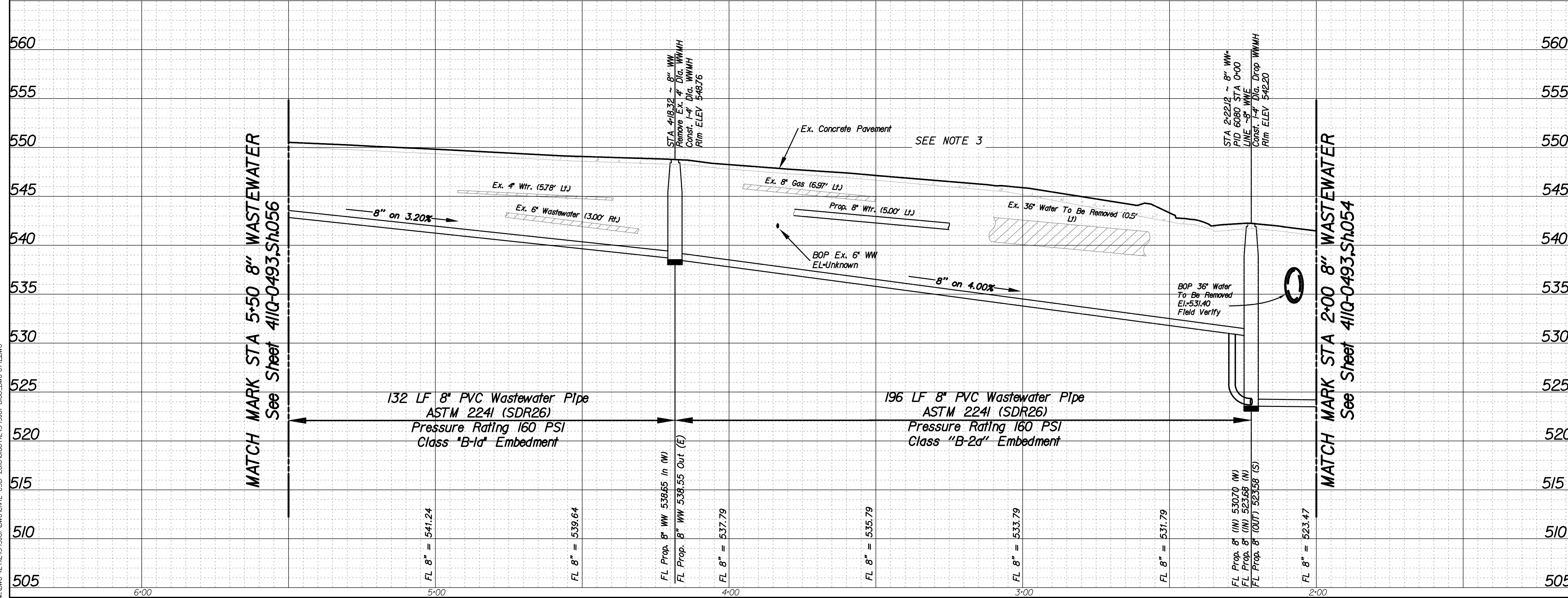
CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

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

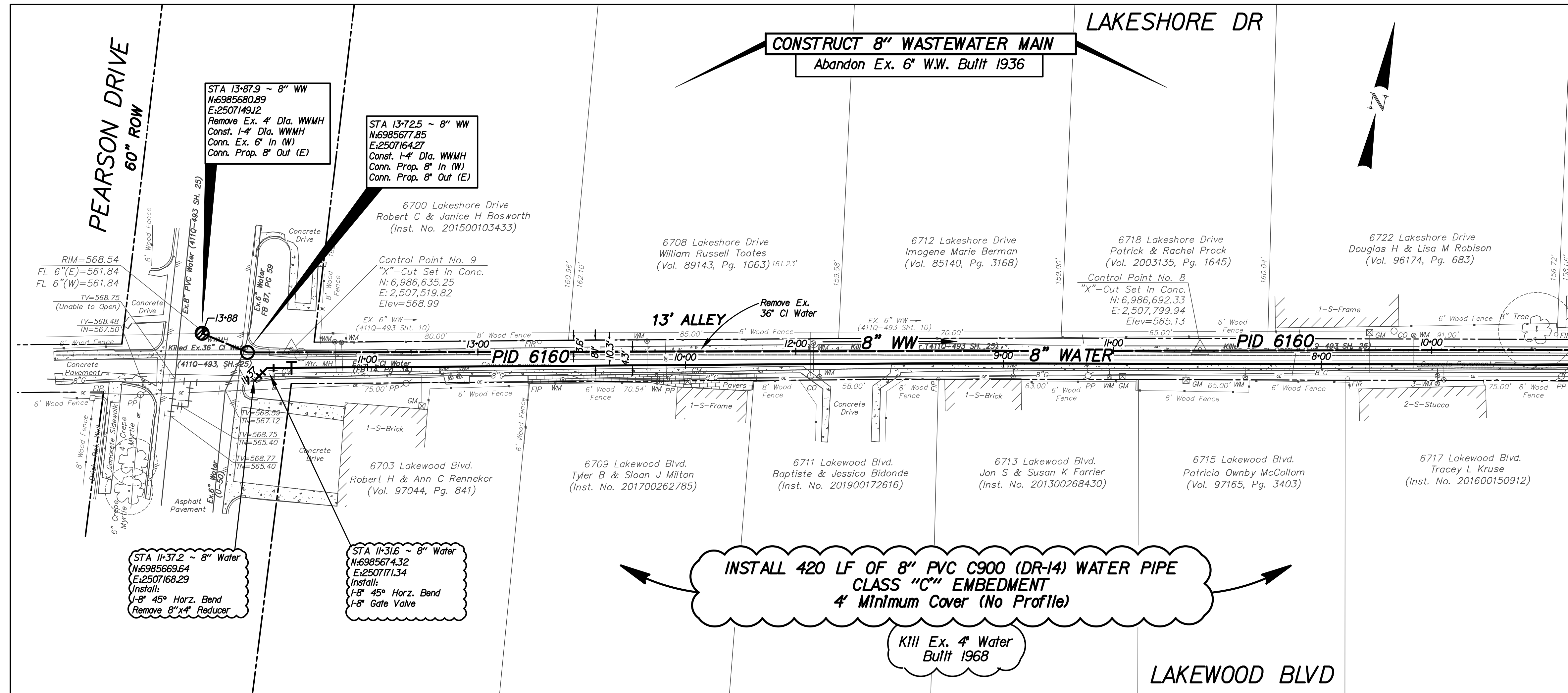
CAUTION ~ POWER !
 Underground Electrical Cables In Area
 Contact TXU Two Working Days Prior To Construction.
 Tele: 1-800-344-8377

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

INSTALL 317 LF OF 8" PVC C900 (DR-14) WATER PIPE CLASS "C" EMBEDMENT 4" MINIMUM COVER (NO PROFILE)



REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1				
BENCHMARKS & CONTROL POINTS				
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07				
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69				
36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51				
Point	Northing	Easting	Elev.	Description
17	6,986,826.36	2,508,450.01	548.53	X CUT
20	6,986,736.66	2,507,026.36	559.25	X CUT
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER 3131-W				
WASTEWATER 3131-S				
Pacheco Koch		7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000		
CONTRACT NO. 21-049/050		PID: 6160		
8" WATER & 8" WASTEWATER MAIN				
ALLEY BETWEEN LAKESHORE DR & LAKEWOOD BLVD FROM PEARSON DR TO COPPERFIELD LN				
DALLAS WATER UTILITIES				
CITY OF DALLAS, TEXAS				
DESIGN	DRAWN	DATE	FILE	NUMBER
KCM	AMP	JAN 2021	411Q	0493
				SHEET
				055

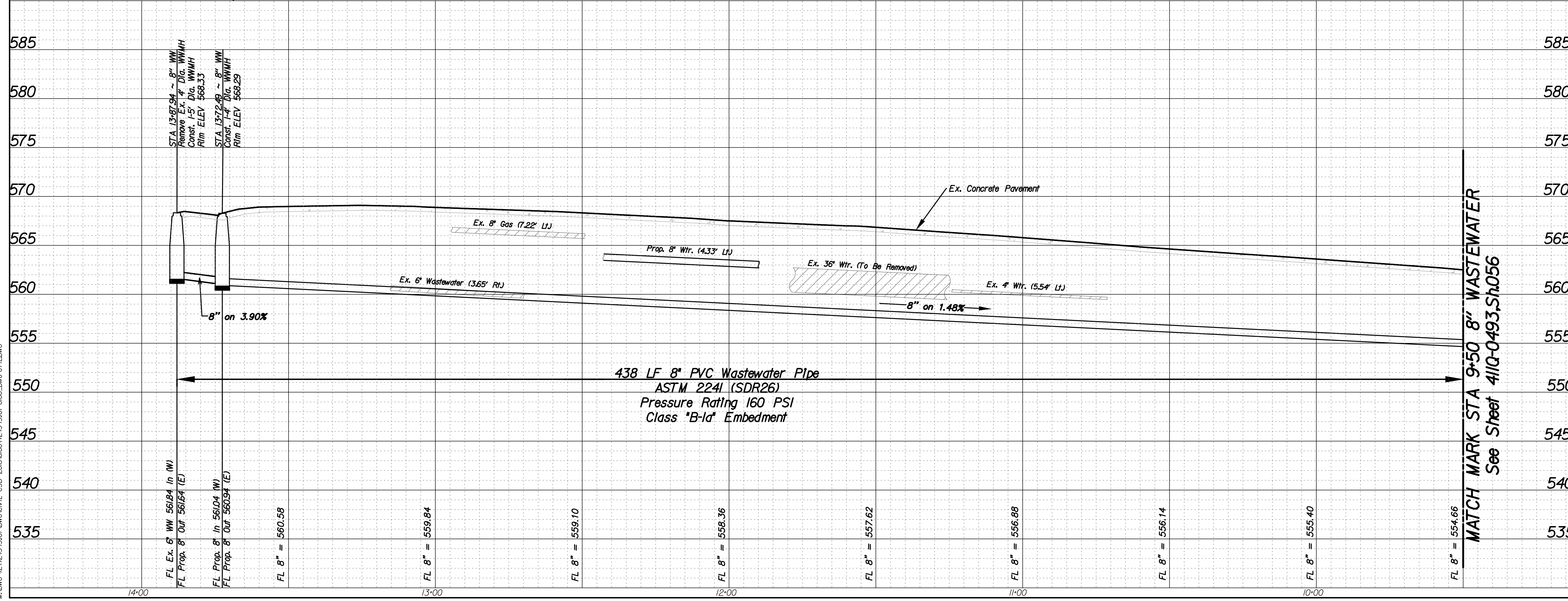


MATCH MARK STA 9+50 8" WASTEWATER
 MATCH MARK STA 7+17 4" WATER
 See Sheet 411Q-0493.Sh056

- NOTES:
- CONTRACTOR TO INSTALL 4 INCH TEMPORARY WATER LINE FOR SERVICE DURING CONSTRUCTION.
 - CONTRACTOR WILL BE PAID TO REMOVE OLD 36-INCH PIPE AS DIRECTED BY DWU STAFF. CONTRACTOR WILL GET DWU STAFF APPROVAL PRIOR TO REMOVING PIPE

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

INSTALL 420 LF OF 8" PVC C900 (DR-14) WATER PIPE
 CLASS "C" EMBEDMENT
 4' Minimum Cover (No Profile)
 Kill Ex. 4" Water Built 1968

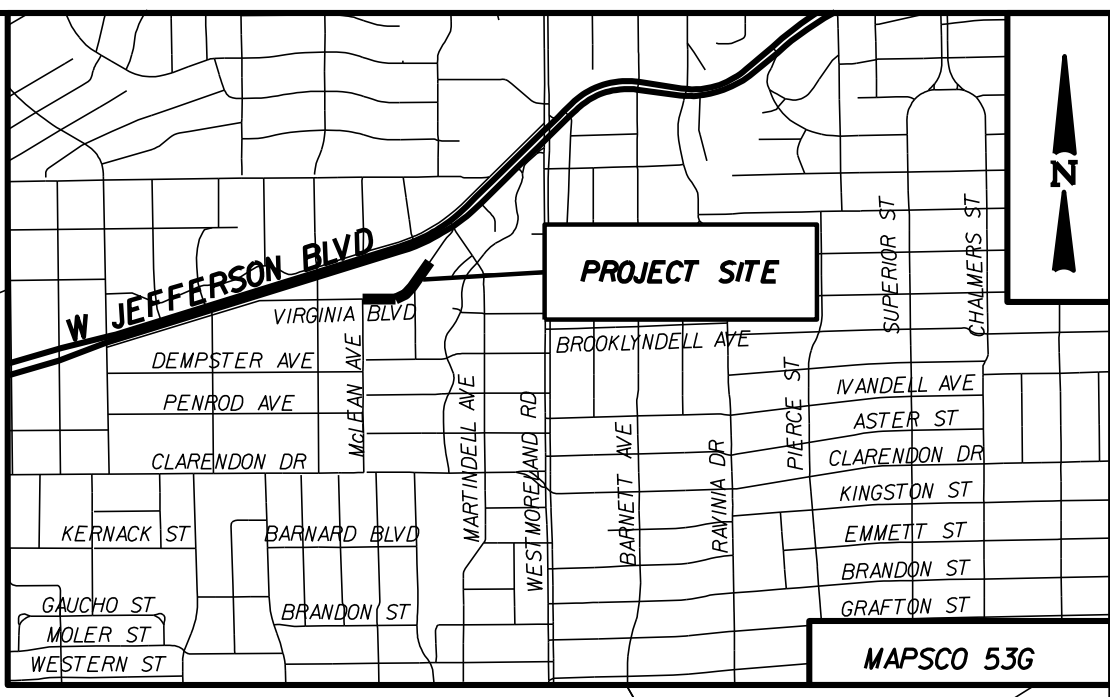
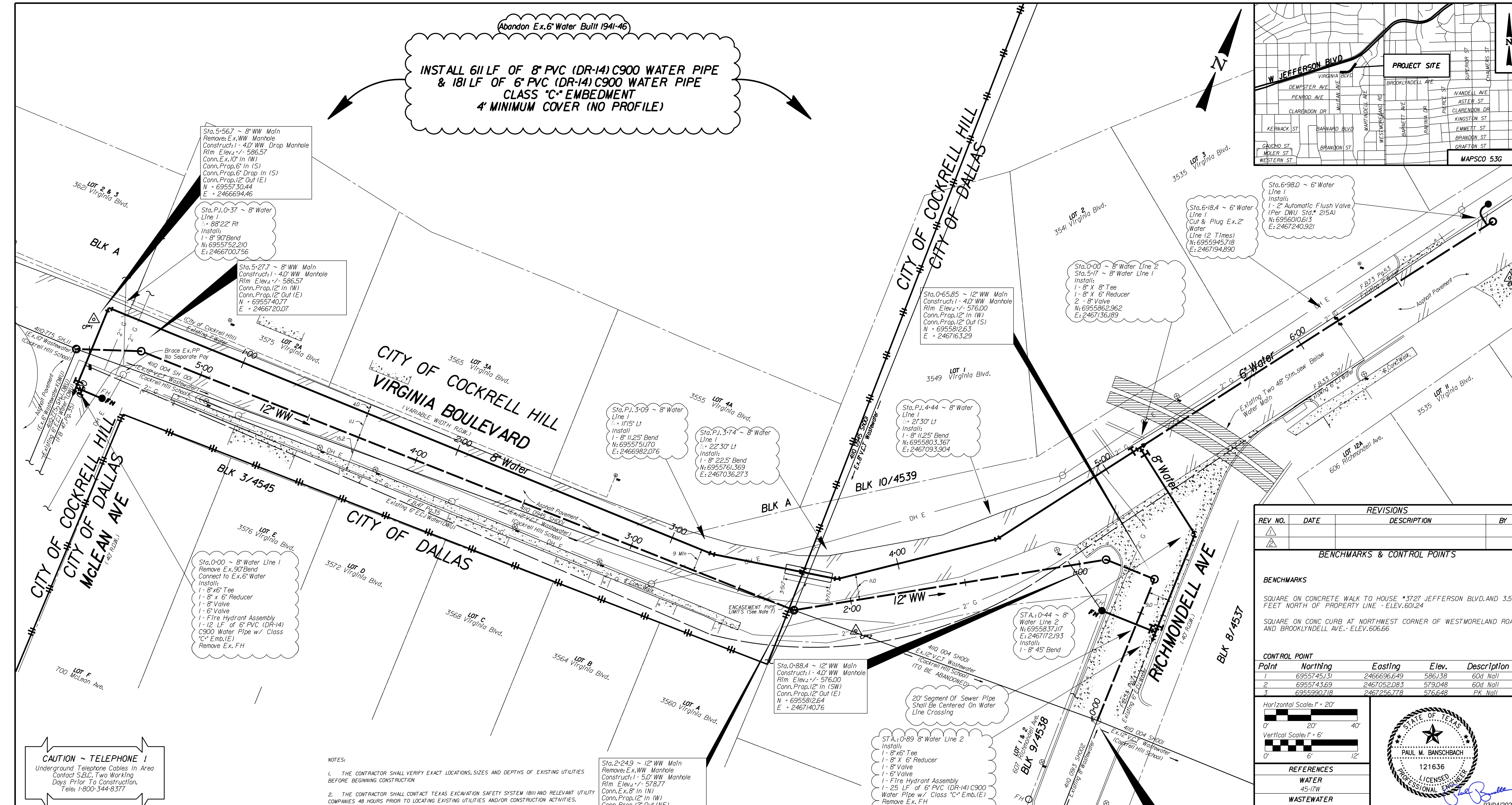


REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			
BENCHMARKS & CONTROL POINTS			
36-U-7S A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF KIDWELL STREET AND RICHMOND AVENUE ELEV=561.07			
36-V-2 A SQUARE CUT ON CONCRETE CURB AT END OF CONCRETE WALK TO HOUSE #3 NONESUCH ROAD. ELEV=544.69			
36-V-4 A SQUARE CUT ON THE CENTER OF A 12" BY 3" INLET AT THE BACK OF CURB ON THE SOUTH SIDE OF LAKEWOOD BOULEVARD IN FRONT OF HOUSE NO. 6434 ELEV=568.51			
Point	Northing	Easting	Elev. Description
9	6,986,635.25	2,507,519.82	568.99 X CUT
8	6,986,692.33	2,507,799.94	565.13 X CUT
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 			
REFERENCES WATER 3131-W WASTEWATER 3131-S			
		Pacheco Koch 7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-1000800	
CONTRACT NO. 21-049/050		PID: 6160	
8" WATER & 8" WASTEWATER MAIN			
ALLEY BETWEEN LAKESHORE DR & LAKEWOOD BLVD			
FROM PEARSON DR TO COPPERFIELD LN			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
KCM	AMP	JAN 2021	411Q
NUMBER	SHEET		FILE
0493	057		057

4/10/21
 3:40 PM
 21-049-050-010-DWG-CIVIL C3D 2018/06/04 10:49:19 07:46:60 DWU-UT-LDNG

Abandon Ex. 6" Water Built 1941-46

**INSTALL 611 LF OF 8" PVC (DR-14) C900 WATER PIPE
& 181 LF OF 6" PVC (DR-14) C900 WATER PIPE
CLASS "C" EMBEDMENT
4' MINIMUM COVER (NO PROFILE)**



Sta. 6+98.0 ~ 6" Water Line 1
Install:
1 - 2" Automatic Flush Valve (Per DWU Std. # 215A)
N: 6956010.613
E: 2467240.921

Sta. 6+18.4 ~ 6" Water Line 1
Install:
Cut & Plug Ex. 2" Water Line (2 Times)
N: 6955945.718
E: 2467194.890

Sta. 0+00 ~ 8" Water Line 2
Sta. 5+17 ~ 8" Water Line 1
Install:
1 - 8" X 8" Tee
1 - 8" X 6" Reducer
2 - 8" Valve
N: 6955862.962
E: 2467136.189

Sta. 0+65.85 ~ 12" WW Main
Construct: 1 - 4.0' WW Manhole
Rim Elev. +/- 576.00
Conn. Prop. 12" In (W)
Conn. Prop. 12" Out (S)
N: 6955812.63
E: 2467163.29

Sta. P.I. 3-09 ~ 8" Water Line 1
Install:
1 - 8" 11.25' Bend
N: 6955761.369
E: 2467036.273

Sta. P.I. 3-74 ~ 8" Water Line 1
Install:
1 - 8" 22.5' Bend
N: 6955761.369
E: 2467036.273

Sta. P.I. 4-44 ~ 8" Water Line 1
Install:
1 - 8" 11.25' Bend
N: 6955803.367
E: 2467093.904

Sta. 0+44 ~ 8" Water Line 2
N: 6955837.117
E: 2467172.193
Install:
1 - 8" 45' Bend

Sta. 0+88.4 ~ 12" WW Main
Construct: 1 - 4.0' WW Manhole
Rim Elev. +/- 576.00
Conn. Prop. 12" In (W)
Conn. Prop. 12" Out (E)
N: 6955812.64
E: 2467140.76

Sta. 2+24.9 ~ 12" WW Main
Remove: Ex. WW Manhole
Construct: 1 - 5.0' WW Manhole
Rim Elev. +/- 578.77
Conn. Ex. 8" In (N)
Conn. Prop. 12" In (W)
Conn. Prop. 12" Out (NE)
N: 6955741.80
E: 2467020.25

Sta. 0+89 ~ 8" Water Line 2
Install:
1 - 8"x6" Tee
1 - 8" X 6" Reducer
1 - 8" Valve
1 - 6" Valve
1 - Fire Hydrant Assembly
1 - 25 LF of 6" PVC (DR-14) C900 Water Pipe w/ Class "C" Emb.(E)
Remove Ex. FH
Remove Ex. Fitting and Connect to Ex. 6" Water w/ Solid Sleeve
N: 6955787.289
E: 2467172.334

Sta. 0+00.0 ~ 12" WW Main
Re-Use Ex. 4.0' WW Manhole
Rim Elev. +/- 575.98
Conn. Prop. 12" In (N)
Conn. Ex. 12" Out (E)
Conn. Ex. 8" In (S)
Aband. Ex. 12" (W)
N: 6955746.78
E: 2467163.25

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

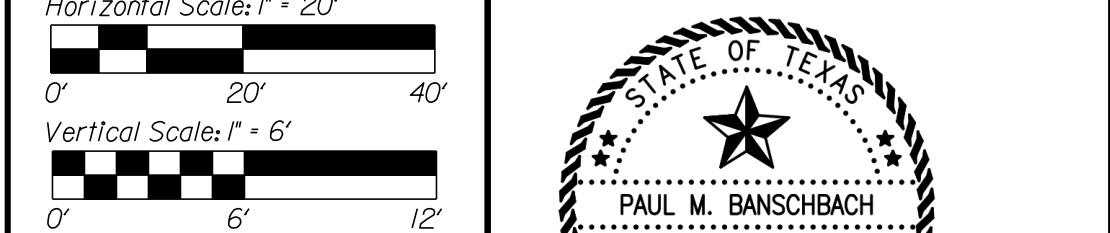
BENCHMARKS & CONTROL POINTS

BENCHMARKS

SQUARE ON CONCRETE WALK TO HOUSE #3727 JEFFERSON BLVD. AND 3.5 FEET NORTH OF PROPERTY LINE - ELEV. 601.24

SQUARE ON CONC CURB AT NORTHWEST CORNER OF WESTMORELAND ROAD AND BROOKLYNDELL AVE. - ELEV. 606.66

Point	Northing	Eastng	Elev.	Description
1	6955745.31	2466696.649	586.38	60d Nail
2	6955743.69	2467052.083	579.048	60d Nail
3	6955990.718	2467256.778	576.648	PK Nail



Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 6'

REFERENCES

WATER
45-17W

WASTEWATER
45-17S

Garver USA
3010 Gaylord Parkway, Suite 190
Frisco, TX 75034
TBPE Reg. No. F-5713

CONTRACT NO. 21-049/050 **PID: 3250**

12" WW & 8.6" WATER MAINS
VIRGINIA AVENUE
FROM McLEAN AVE. EAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PMB	UOP	MAR. 2021	411Q	945	05

- NOTES:
- THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES AND DEPTHS OF EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL CONTACT TEXAS EXCAVATION SAFETY SYSTEM (TESS) 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 THEIR EXPENSE.
 - THE GROUND SURVEY WAS PERFORMED BY HAYDEN CONSULTANTS, INC. IN SEPT. 2015. THE SURVEY DATA FOR DESIGN IS ON GRID COORDINATES. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY.
 - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
 - SERVICE RECONNECTION NOTES:
EST-D WASTEWATER SERVICE
RECONNECTIONS ON THIS SHT - 13
EST-D WATER SERVICE
RECONNECTIONS ON THIS SHT - 13
 - WATER MAIN SHALL BE CASED IN AN 20-FOOT SECTION OF PIPE. THE CASING PIPE SHALL BE CENTERED ON THE SEWER PIPE AND SHALL BE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN THE WATER MAIN. THE CASING PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN SHALL BE PROVIDED.

CONSTRUCT 12" WW MAIN
ABANDON EX. 12" WW
YEAR BUILT UNKNOWN
(From Sta. 3+00.0 To Sta. 5+56.7)
REMOVE EX. 12" WW
YEAR BUILT UNKNOWN
(From Sta. 2+24.9 To Sta. 3+00.0)

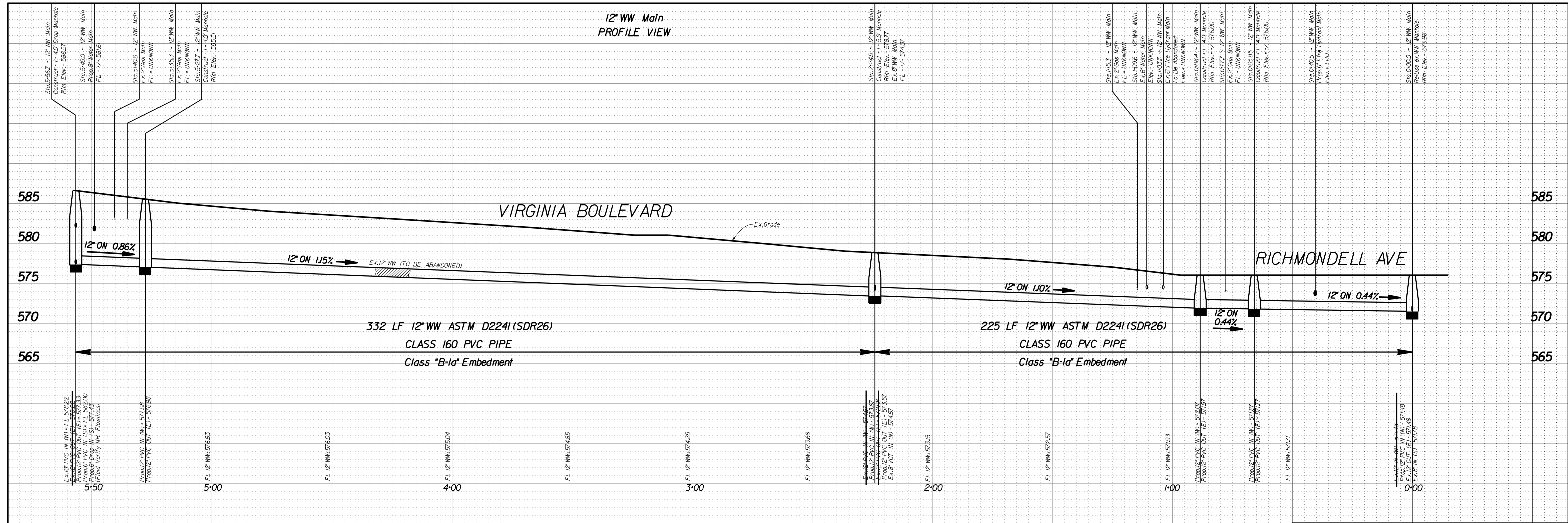
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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 AMOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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

CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected,
Removed, or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations
(WRD) 5 working days in advance.
Tel: 214-670-5533
Email: DWUWRD@dalasscityhall.com



12" WW Main
PROFILE VIEW

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			
2			

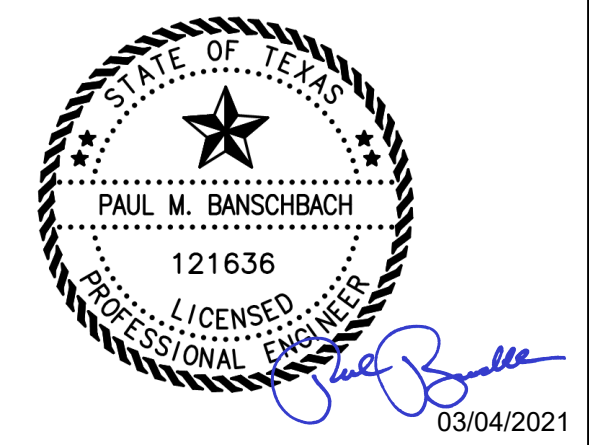
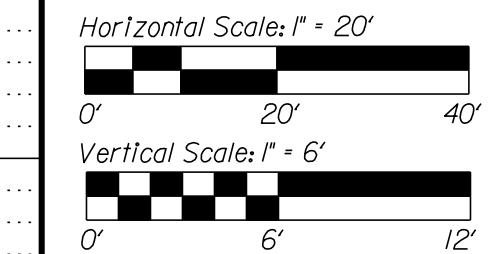
BENCHMARKS & CONTROL POINTS

BENCHMARKS

SQUARE ON CONCRETE WALK TO HOUSE *3727 JEFFERSON BLVD. AND 3.5 FEET NORTH OF PROPERTY LINE - ELEV. 601.24

SQUARE ON CONC CURB AT NORTHWEST CORNER OF WESTMORELAND ROAD AND BROOKLYNDELL AVE. - ELEV. 606.66

CONTROL POINT				
Point	Northing	Eastng	Elev.	Description
1	6955745.31	2466696.649	586.338	60d Nail
2	6955743.69	2467052.083	579.048	60d Nail
3	6955990.718	2467256.778	576.648	PK Nail



REFERENCES	
WATER	45-17W
WASTEWATER	45-17S

Garver USA
3010 Gaylord Parkway, Suite 190
Frisco, TX 75034
TBPE Reg. No. F-5713

CONTRACT NO. 21-049/050 | **PID: 3250**

12" WW & 8.6" WATER MAINS
VIRGINIA AVENUE
FROM McLEAN AVE. EAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

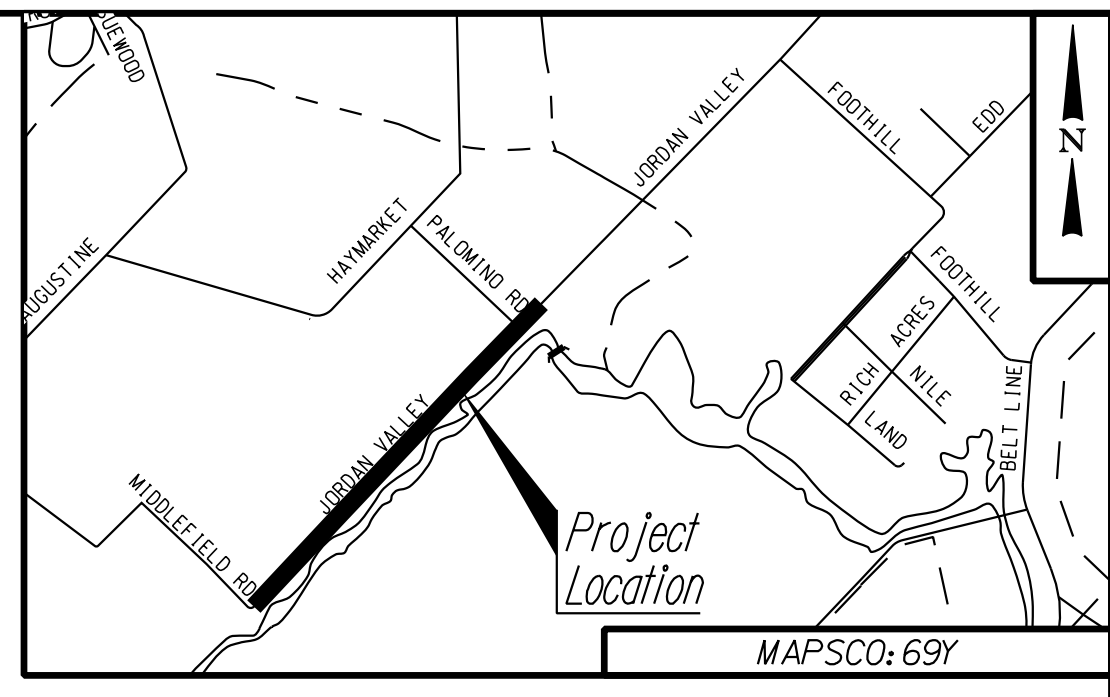
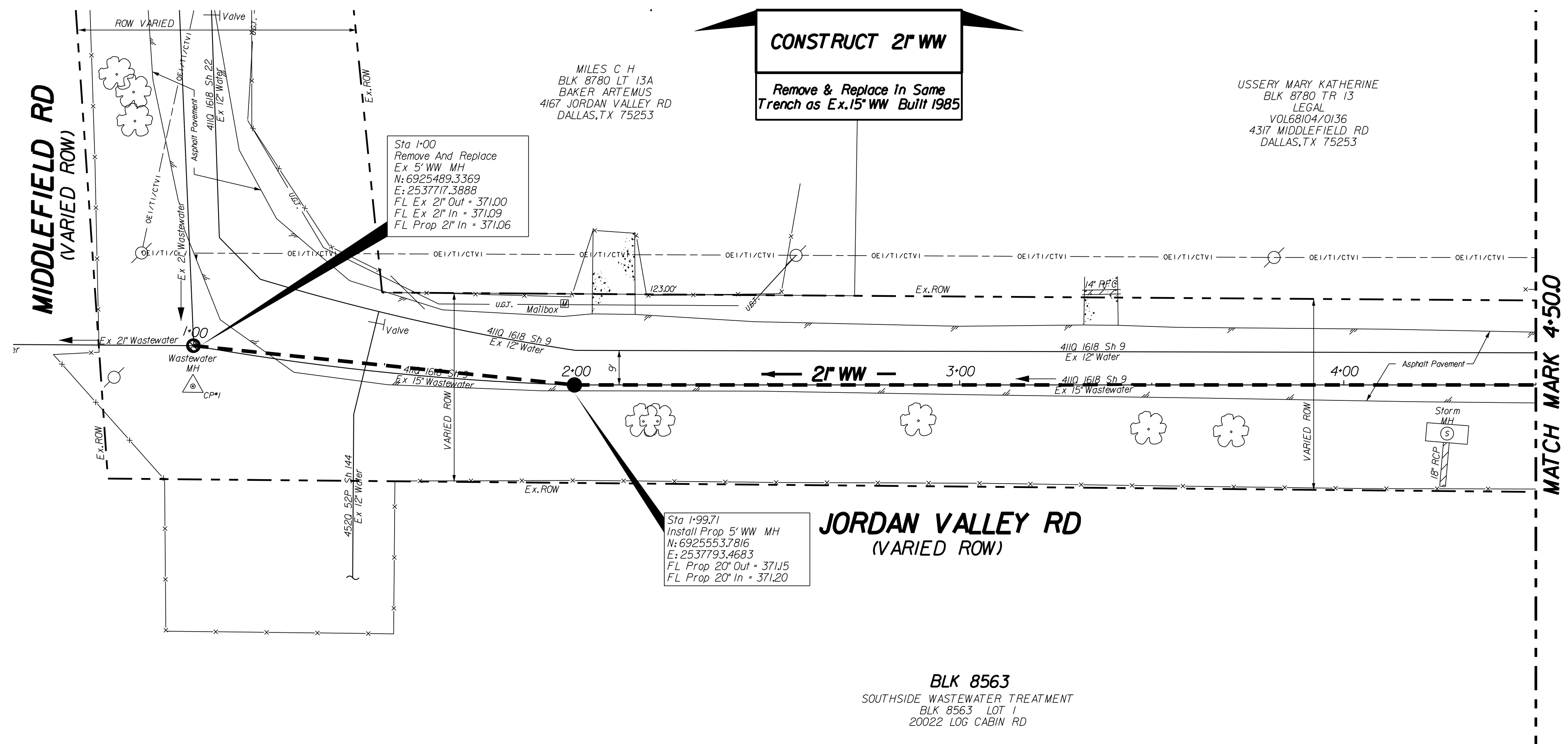
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PMB	UOP	MAR. 2021	411Q	945	05A

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

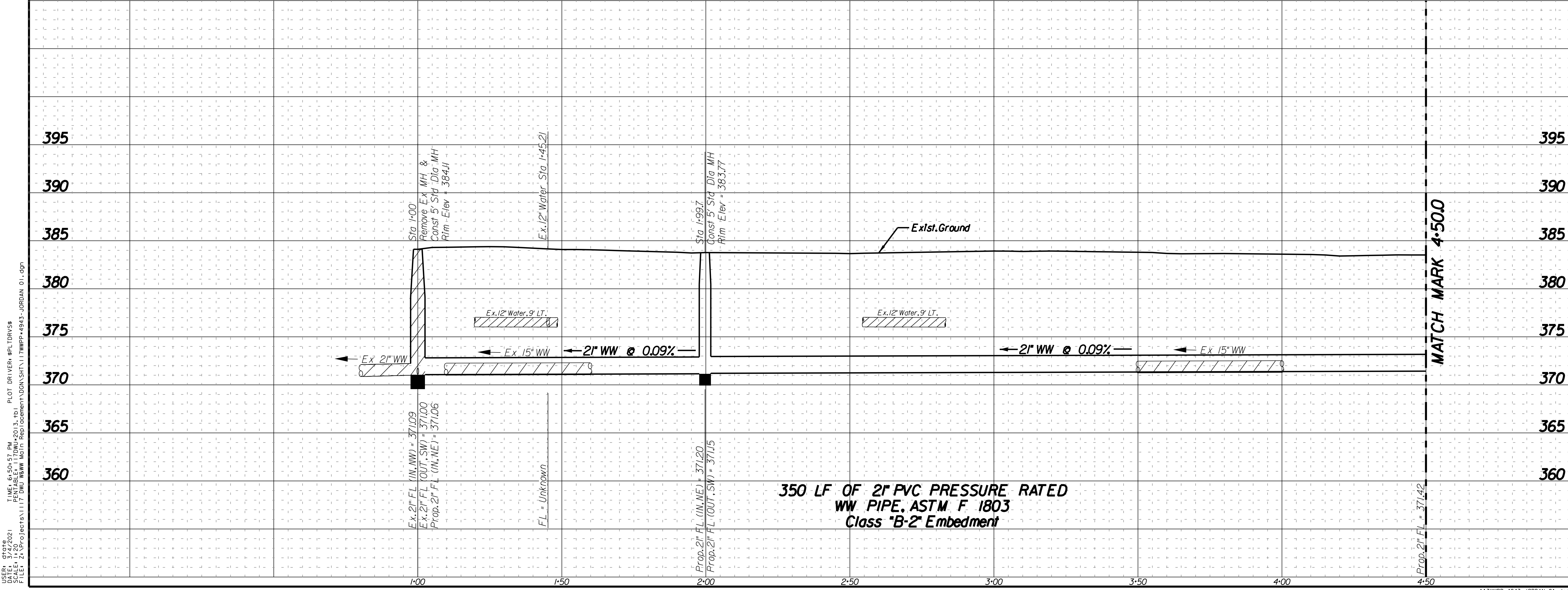
CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
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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



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 - Contractor shall maintain existing wastewater flow at all times. No separate item.



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive, 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING EASTING LAT LONG ELEV
 6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr., 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. at Edd Rd.
 NORTHING EASTING LAT LONG ELEV
 6,939,281.06 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932

CONTROL POINT

Point	Northing	Eastng	Elev.	Description
1	6925481.921	2537724.925	384.37	60ds
2	6925813.746	2538008.931	382.471	pk
3	6928413.840	254592.405	382.251	60ds
4	6929726.056	2541867.539	389.213	60ds
5	6928597.385	2540395.986	383.54	60ds

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

HAYDEN CONSULTANTS, INC.
DAPHNE D. KING
103610
LICENSED PROFESSIONAL ENGINEER
3/4/2021

REFERENCES
WATER
60-40-W.60-41-W
WASTEWATER
60-40-W.60-41-W

HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
Ph: 214.753.8100
Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4943 CONTRACT NO. 21-049/050

2" WASTEWATER
JORDAN VALLEY RD
MIDDLEFIELD RD TO EAST OF PALOMINO
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	363

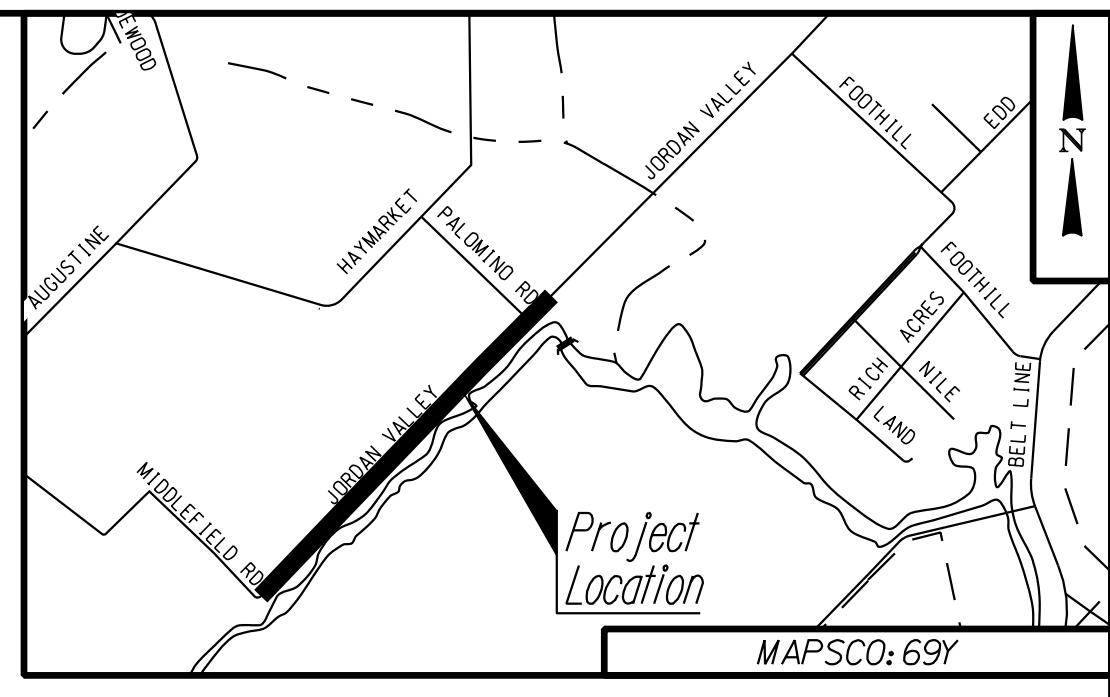
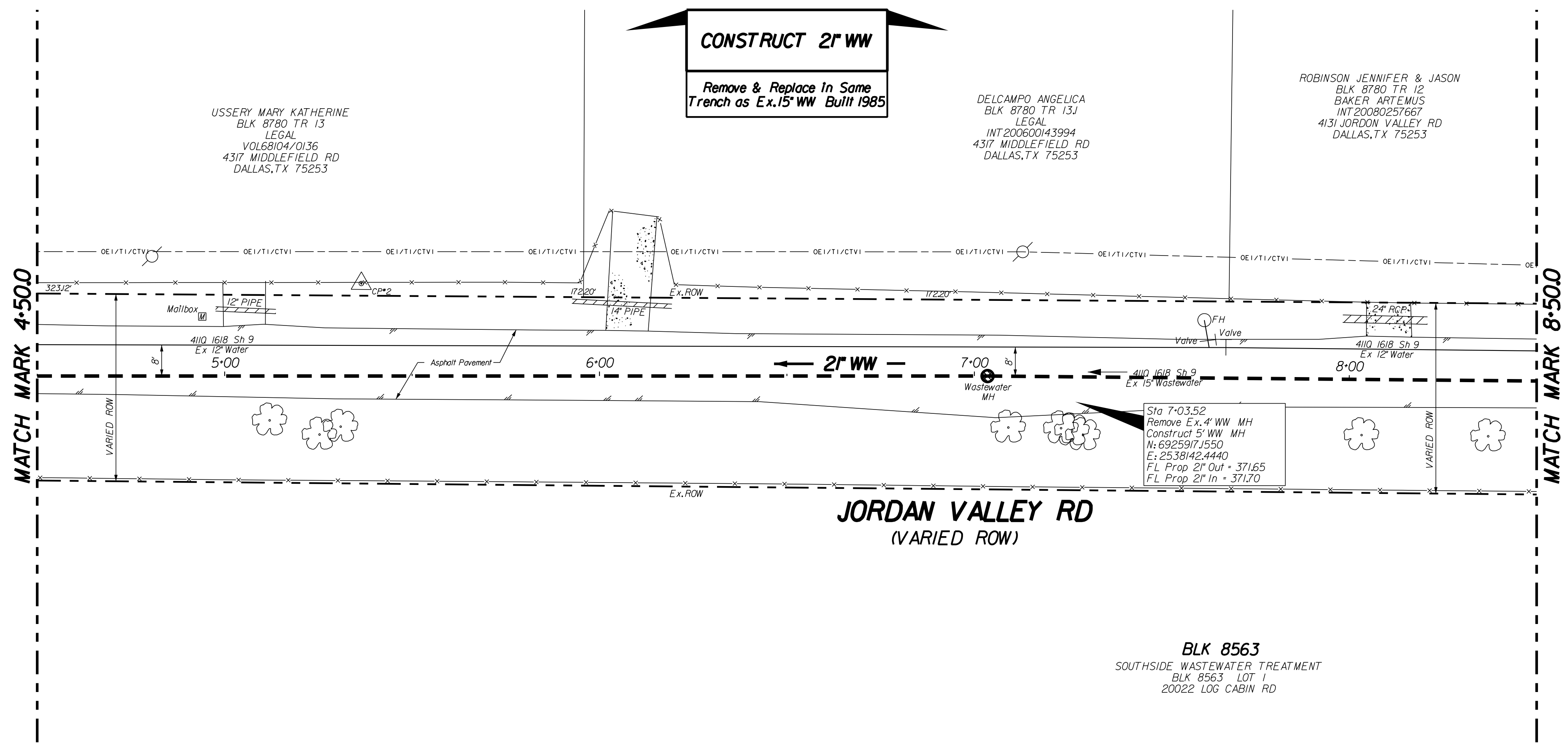
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 USER: PLOT DRIVER: PLOTDRWS8
 SCALE: 1/8" = 1'-0"
 FILE: Z:\Projects\117-DWG\WPP-4943-JORDAN 01.dgn

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

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

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

CAUTION ~ GAS !
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Days Prior To Construction.
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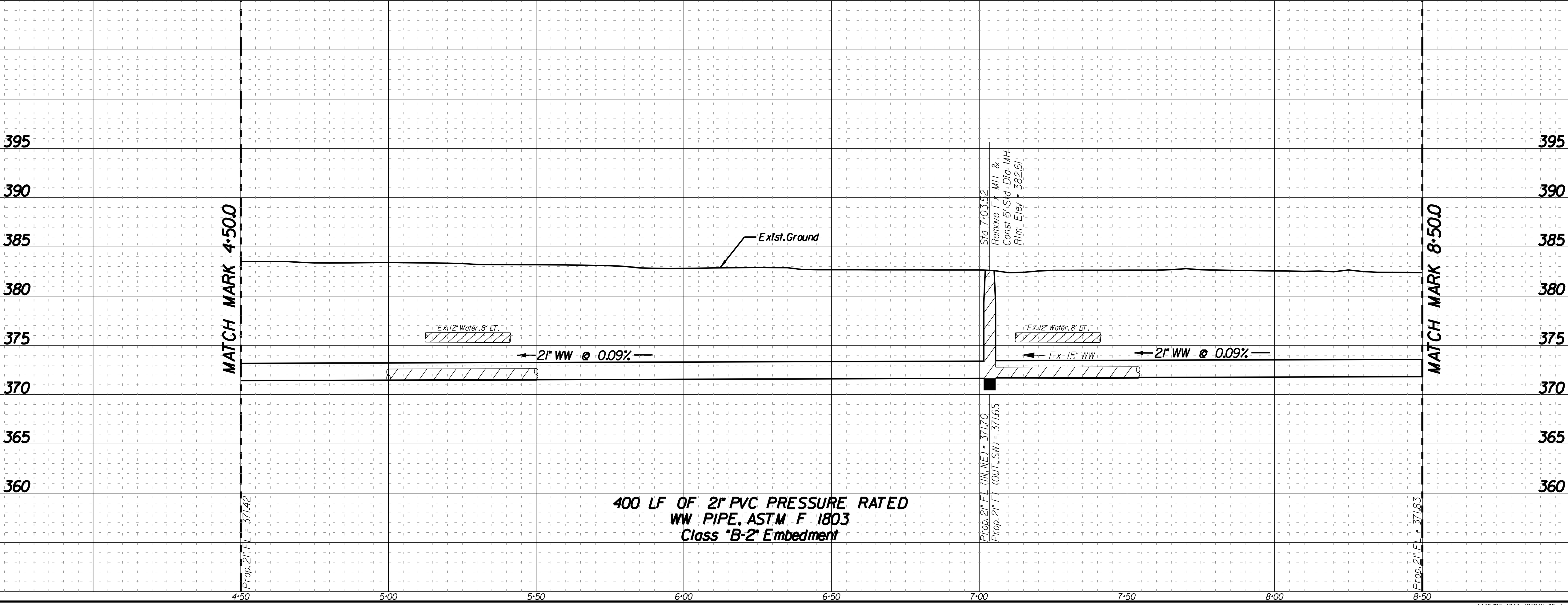


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JORDAN VALLEY RD
(VARIED ROW)

BLK 8563
SOUTHSIDE WASTEWATER TREATMENT
BLK 8563 LOT 1
20022 LOG CABIN RD

DATE: 3/27/2021
 TIME: 6:50:59 PM
 PLOT DRIVER: PLOTDRV58
 PEN TABLE: 11700W-250 (3, 1)
 SCALE: 1:25
 FILE: 117WPP-4943-JORDAN 02.dgn



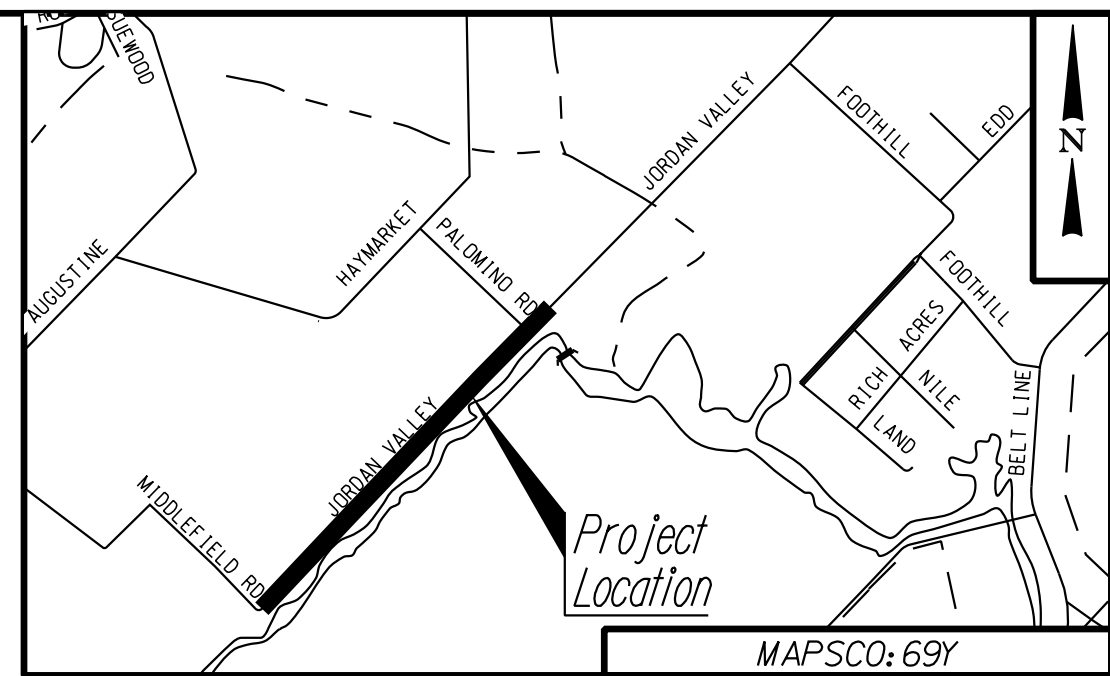
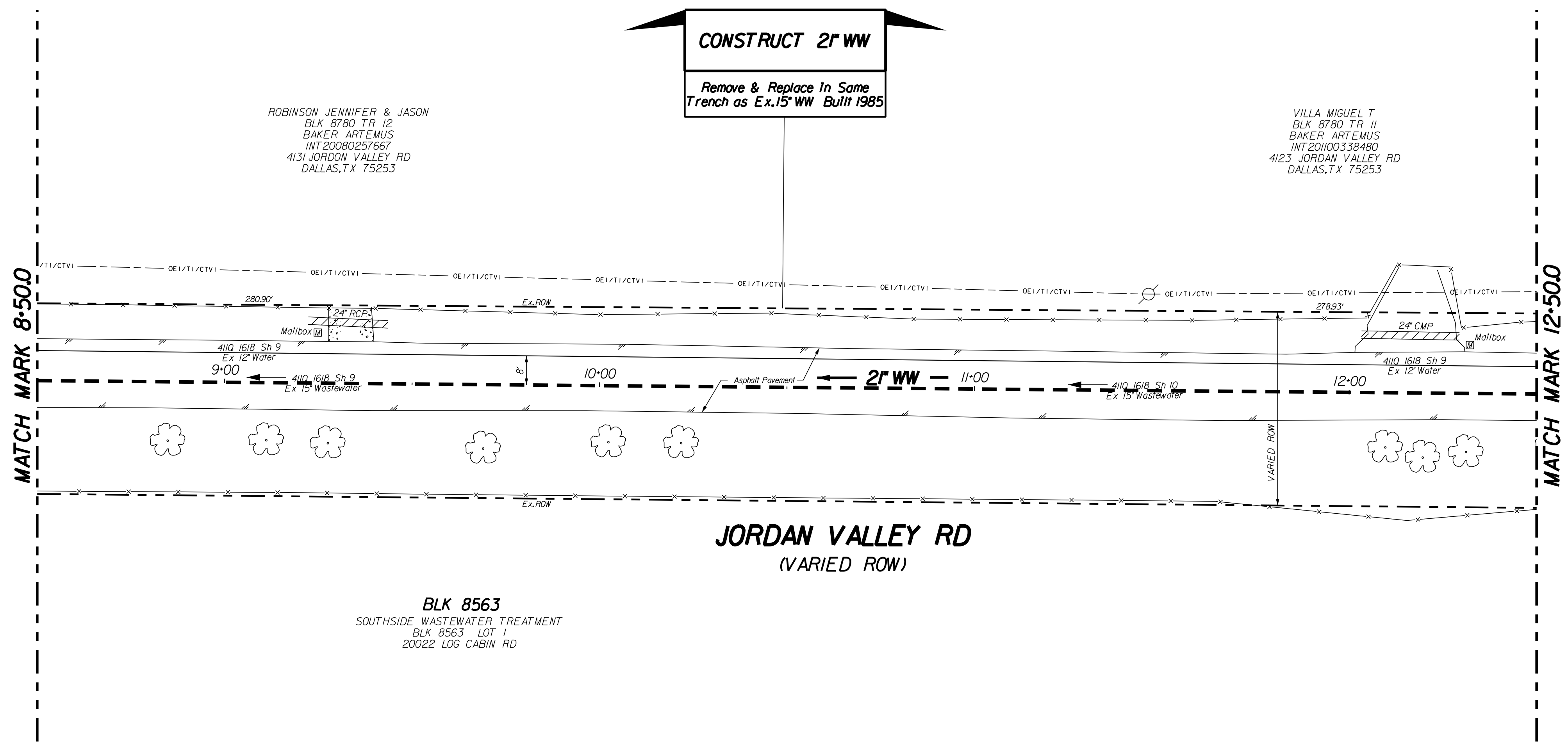
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
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NORTHING	EASTING	LAT	LONG ELEV
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CONTROL POINT			
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5	6928597.385	2540395.986	383.54 60ds
Horizontal Scale: 1\" = 20'		HAYDEN CONSULTANTS, INC.	
Vertical Scale: 1\" = 6'			
REFERENCES			
WATER 60-40-W.60-41-W			
WASTEWATER 60-40-S.60-41-S			
HAYDEN CONSULTANTS, INC.		5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com	
PID: 4943		CONTRACT NO. 21-049/050	
2\"/> 			
JORDAN VALLEY RD			
MIDDLEFIELD RD TO EAST OF PALOMINO			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
HCI	HCI	MAR 2021	4110 1618 364

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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.
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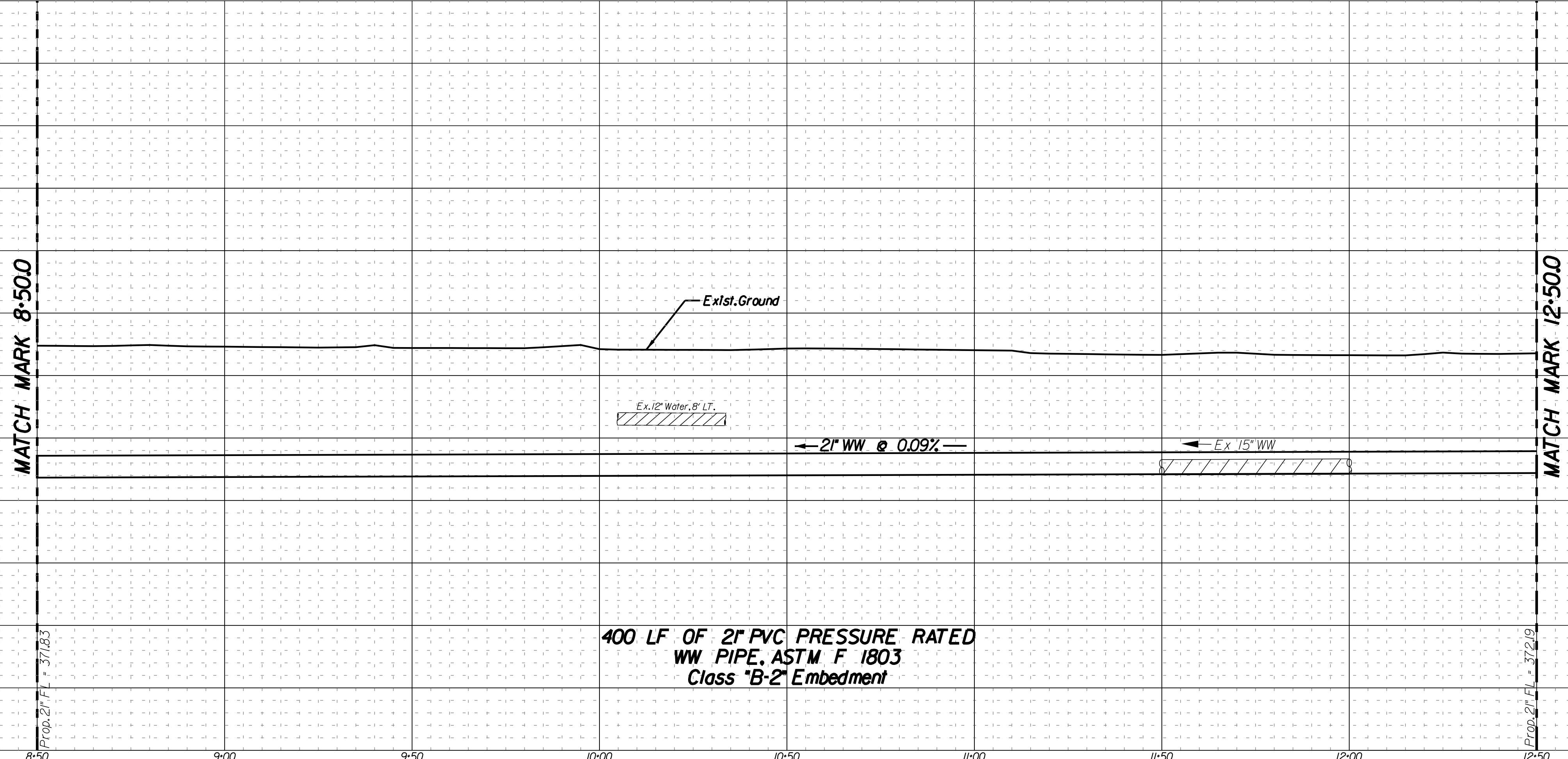
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
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Days Prior To Construction.
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CAUTION ~ GAS !
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-548-6005



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DATE: 3/27/2021
 TIME: 6:51:00 PM
 USER: HAYDEN
 SCALE: 1/2" = 10'-0"
 FILE: 117WPP-4943-JORDAN 03.dgn



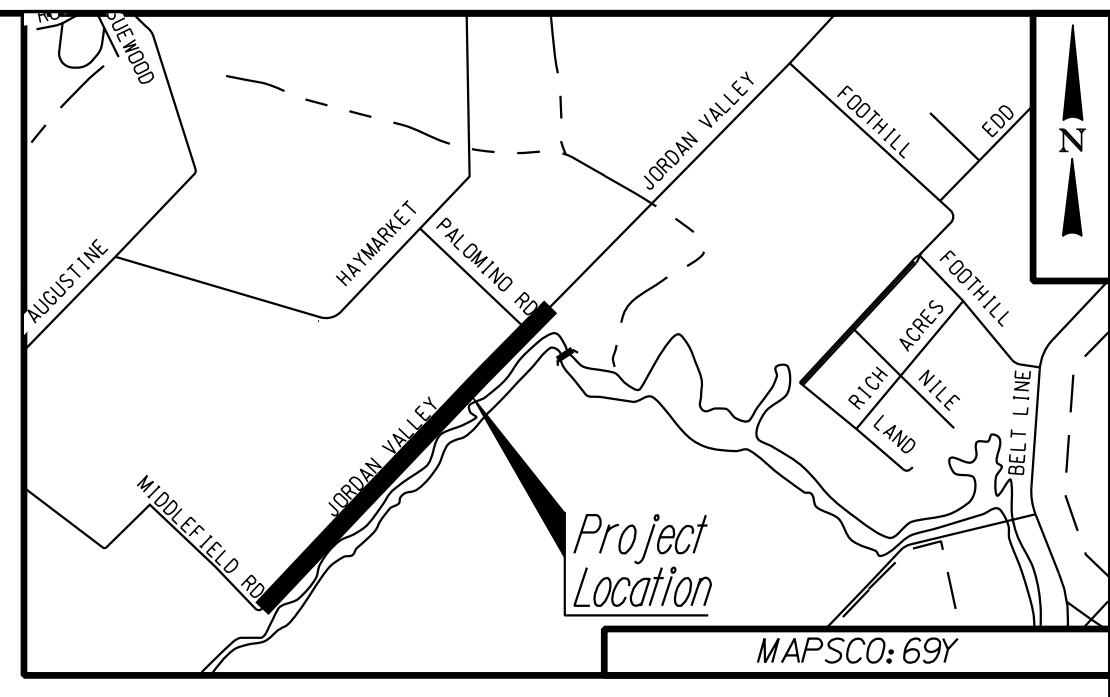
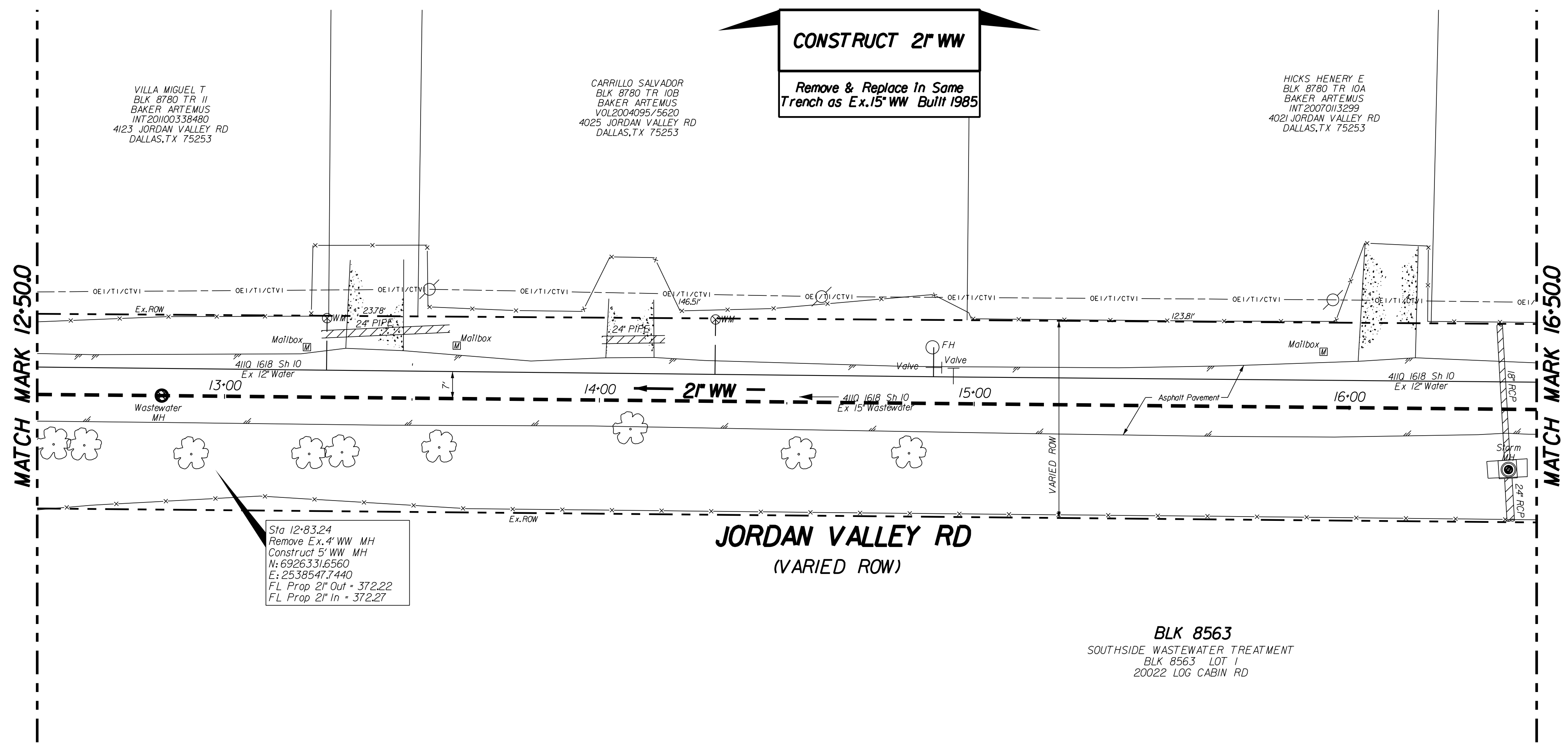
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Horizontal Scale: 1" = 20' 		Vertical Scale: 1" = 6' 																															
REFERENCES WATER 60-40-W.60-41-W WASTEWATER 60-40-S.60-41-S		 Daphne D. King 3/4/2021																															
HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com		PID: 4943 CONTRACT NO. 21-049/050																															
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HCI	HCI	MAR 2021	4110																														
			NUMBER																														
			1618																														
			SHEET																														
			365																														

CAUTION ~ TELEPHONE !
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Contact S.B.C. Two Working
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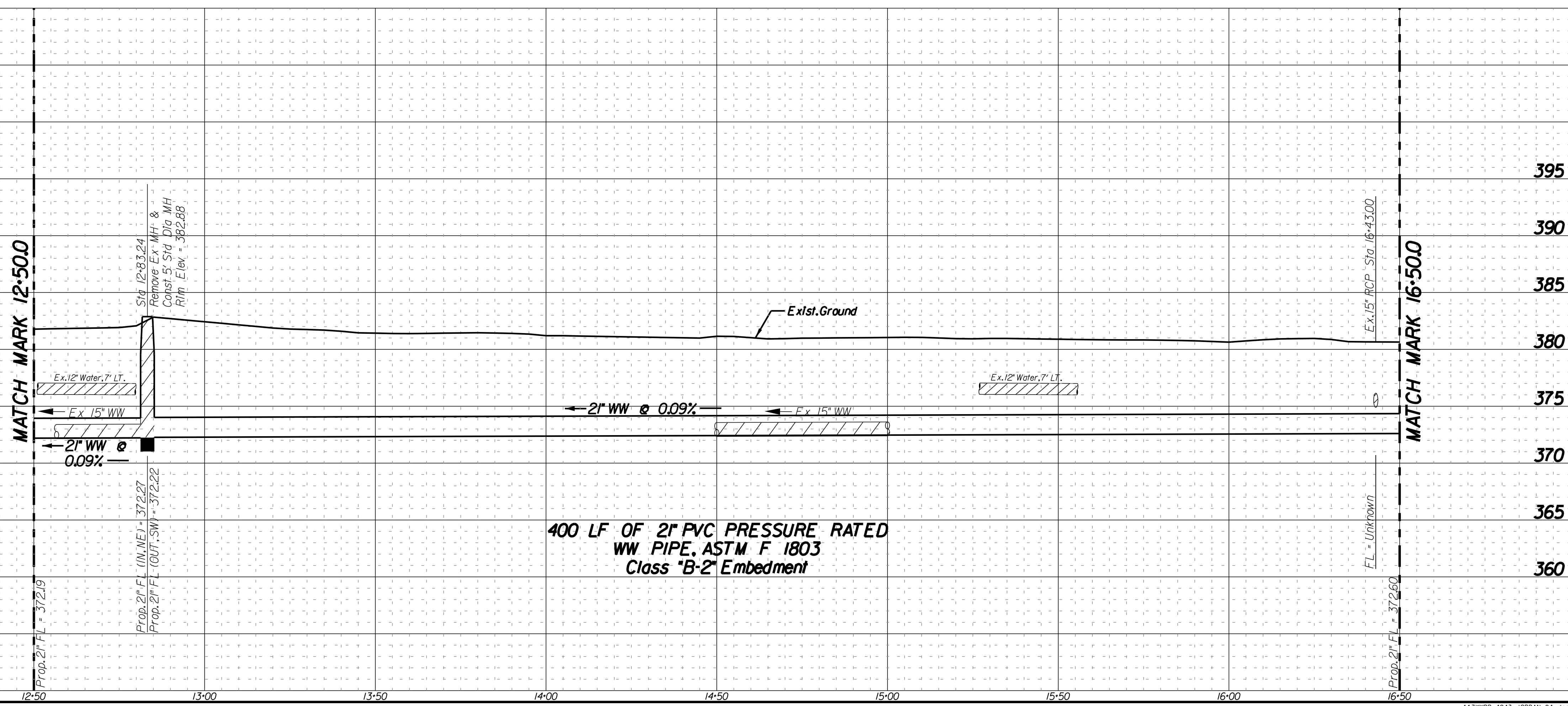


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Sta 12+83.24
Remove Ex. 4" WW MH
Construct 5" WW MH
N: 6926331.6560
E: 25398547.7440
FL Prop 2" Out = 372.22
FL Prop 2" In = 372.27

BLK 8563
SOUTHSIDE WASTEWATER TREATMENT
BLK 8563 LOT 1
20022 LOG CABIN RD

DATE: 3/27/2021 TIME: 6:51:02 PM PLOT DRIVER: PLOTDRV58
SCALE: 1/8"=1'-0" PEN: 100 PEN: 100 PEN: 100
FILE: 21-049-050.dwg



REVISIONS																																	
REV. NO.	DATE	DESCRIPTION	BY																														
BENCHMARKS & CONTROL POINTS Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road. NORTHING EASTING LAT LONG ELEV 6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055 Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. at Edd Rd. NORTHING EASTING LAT LONG ELEV 6,939,128.06 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932 CONTROL POINT <table border="1"> <thead> <tr> <th>Point</th> <th>Northing</th> <th>Easting</th> <th>Elev.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6925481.921</td> <td>2537724.925</td> <td>384.137</td> <td>60ds</td> </tr> <tr> <td>2</td> <td>6925813.746</td> <td>2538008.931</td> <td>382.471</td> <td>60ds</td> </tr> <tr> <td>3</td> <td>6928413.840</td> <td>254592.405</td> <td>382.251</td> <td>60ds</td> </tr> <tr> <td>4</td> <td>6929726.056</td> <td>2541867.539</td> <td>389.213</td> <td>60ds</td> </tr> <tr> <td>5</td> <td>6928597.385</td> <td>2540395.986</td> <td>383.54</td> <td>60ds</td> </tr> </tbody> </table>				Point	Northing	Easting	Elev.	Description	1	6925481.921	2537724.925	384.137	60ds	2	6925813.746	2538008.931	382.471	60ds	3	6928413.840	254592.405	382.251	60ds	4	6929726.056	2541867.539	389.213	60ds	5	6928597.385	2540395.986	383.54	60ds
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Tele: 1-800-344-8377

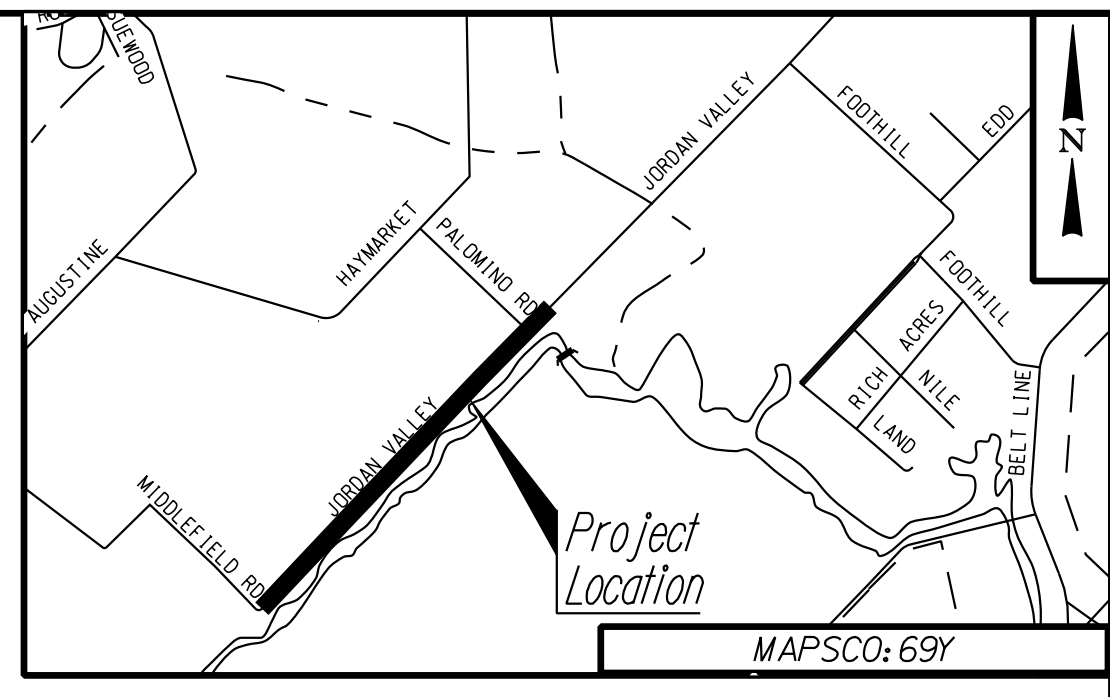
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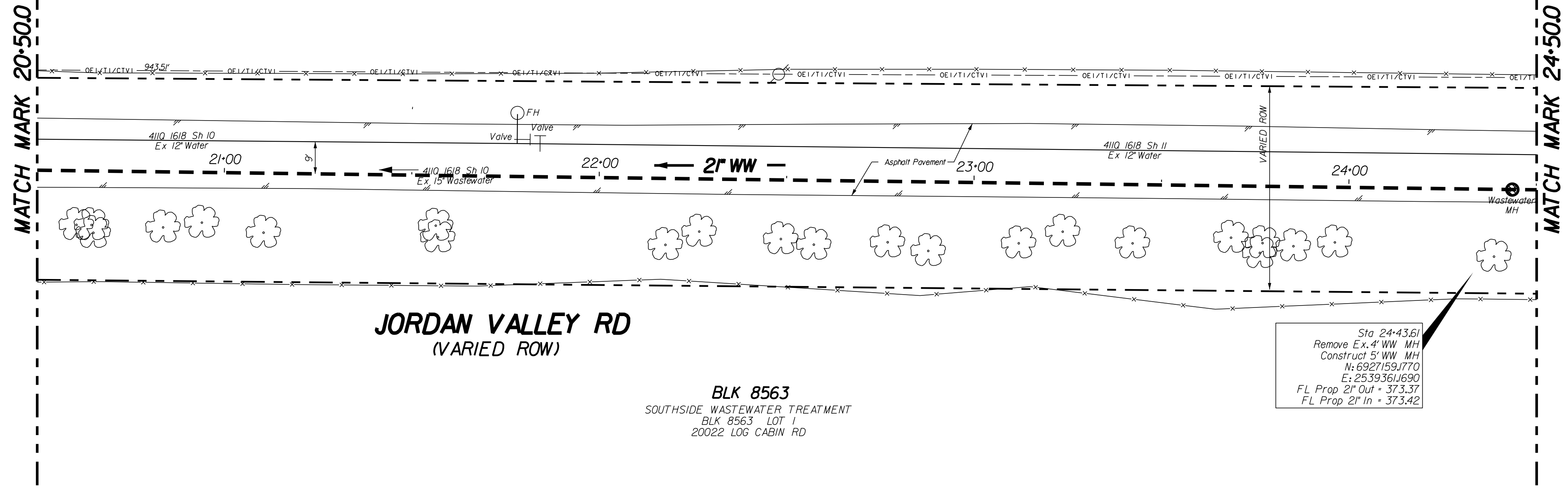
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT.MOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

CONSTRUCT 2" WW
Remove & Replace In Same
Trench as Ex. 15" WW Built 1985

HICKS, HENRY E
BLK 8780 TR 10A
BAKER, ARTEMUS
INT 20140007.3552
4007 JORDAN VALLEY RD
DALLAS, TX 75253



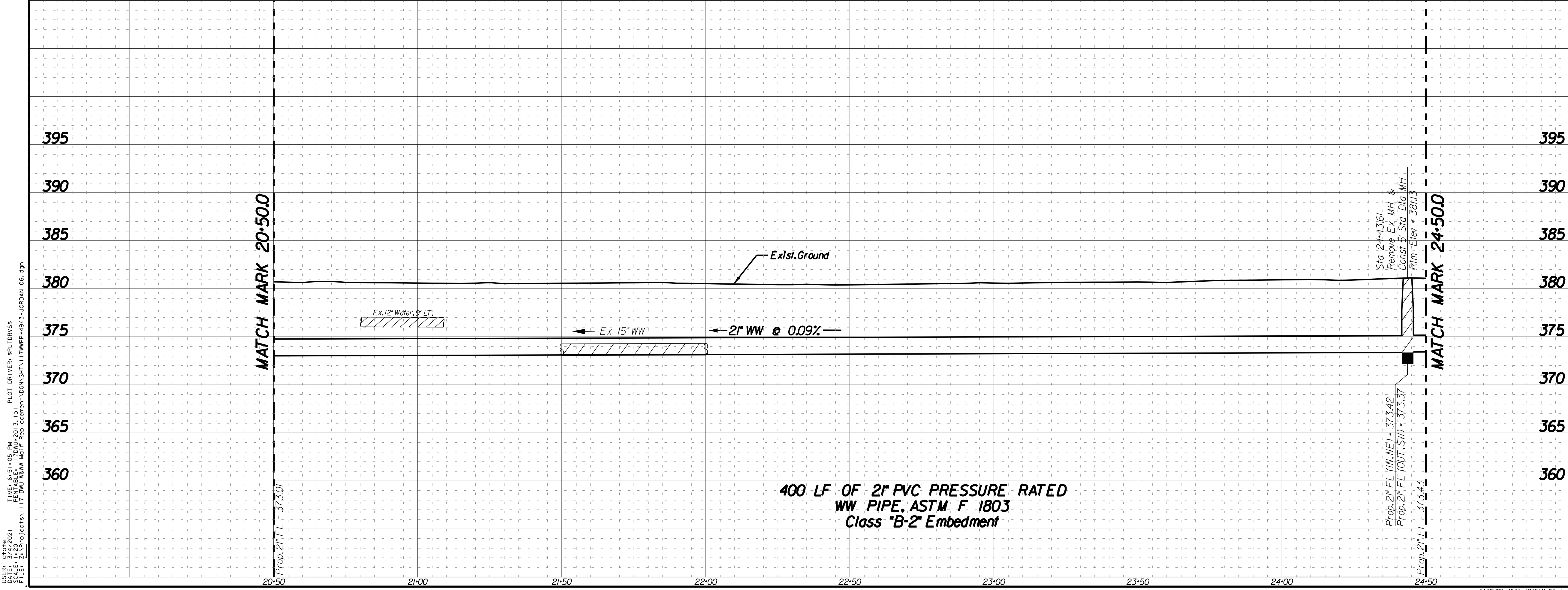
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 - Contractor shall maintain existing wastewater flow at all times. No separate item.



JORDAN VALLEY RD
(VARIED ROW)

BLK 8563
SOUTHSIDE WASTEWATER TREATMENT
BLK 8563 LOT 1
20022 LOG CABIN RD

Sta 24+43.61
Remove Ex. 4" WW MH
Construct 5" WW MH
N: 6927159.1770
E: 2539361.690
FL Prop 2" Out = 37.37
FL Prop 2" In = 37.42



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING EASTING LAT LONG ELEV
 6,939,618.333 2,554,654.299 32°41'27.31496"N 96°35'40.35994"W 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.
 NORTHING EASTING LAT LONG ELEV
 6,939,128.106 2,554,209.050 32°41'22.5446"N 96°35'45.67342"W 481.932

CONTROL POINT

Point	Northing	Easting	Elev.	Description
1	6925481.921	2537724.925	384.137	60ds
2	6925813.746	2538008.931	382.471	pk
3	6928413.840	254592.405	382.251	60ds
4	6929726.056	2541867.539	389.213	60ds
5	6928597.385	2540395.986	383.54	60ds

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

REFERENCES

WATER
60-40-W.60-41-W
 WASTEWATER
60-40-S.60-41-S

HAYDEN CONSULTANTS, INC.
 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
 Ph: 214.753.8100
 Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4943 CONTRACT NO. 21-049/050

2" WASTEWATER
JORDAN VALLEY RD
MIDDLEFIELD RD TO EAST OF PALOMINO
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	368

DATE: 3/22/2021 TIME: 6:51:05 PM
 USER: PLOT DRIVER: PLOTDRVS8
 SCALE: 1/2" = 10'-0" (HORIZONTAL)
 SCALE: 1/4" = 1'-0" (VERTICAL)
 FILE: 117WPP-4943-JORDAN 06.dgn

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

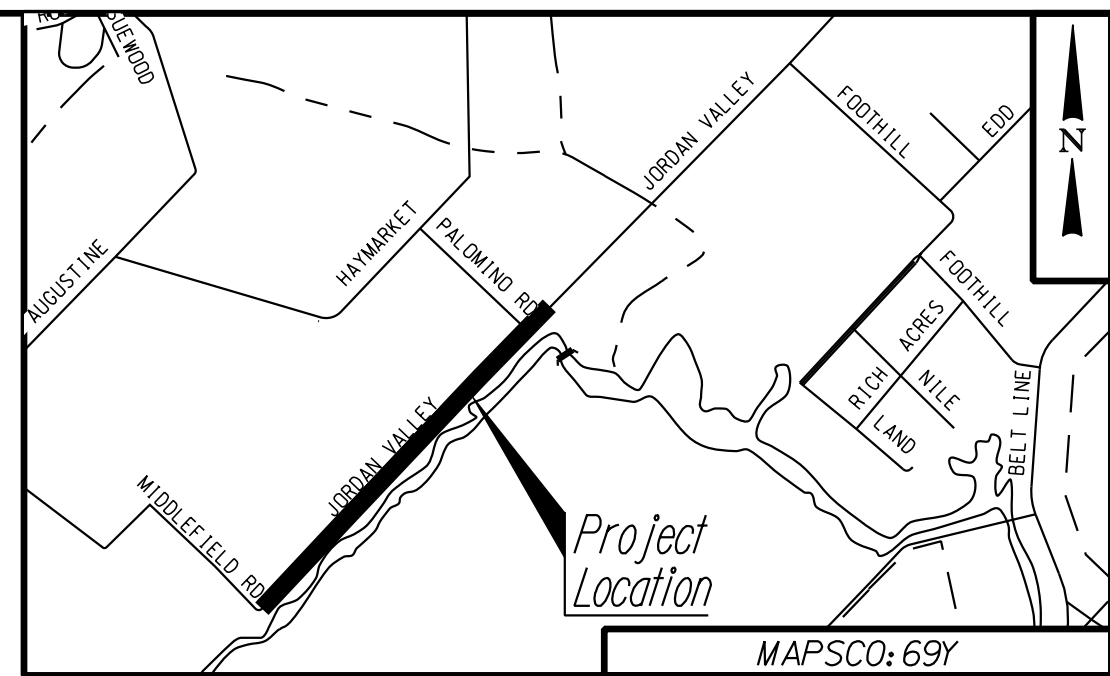
CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ 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

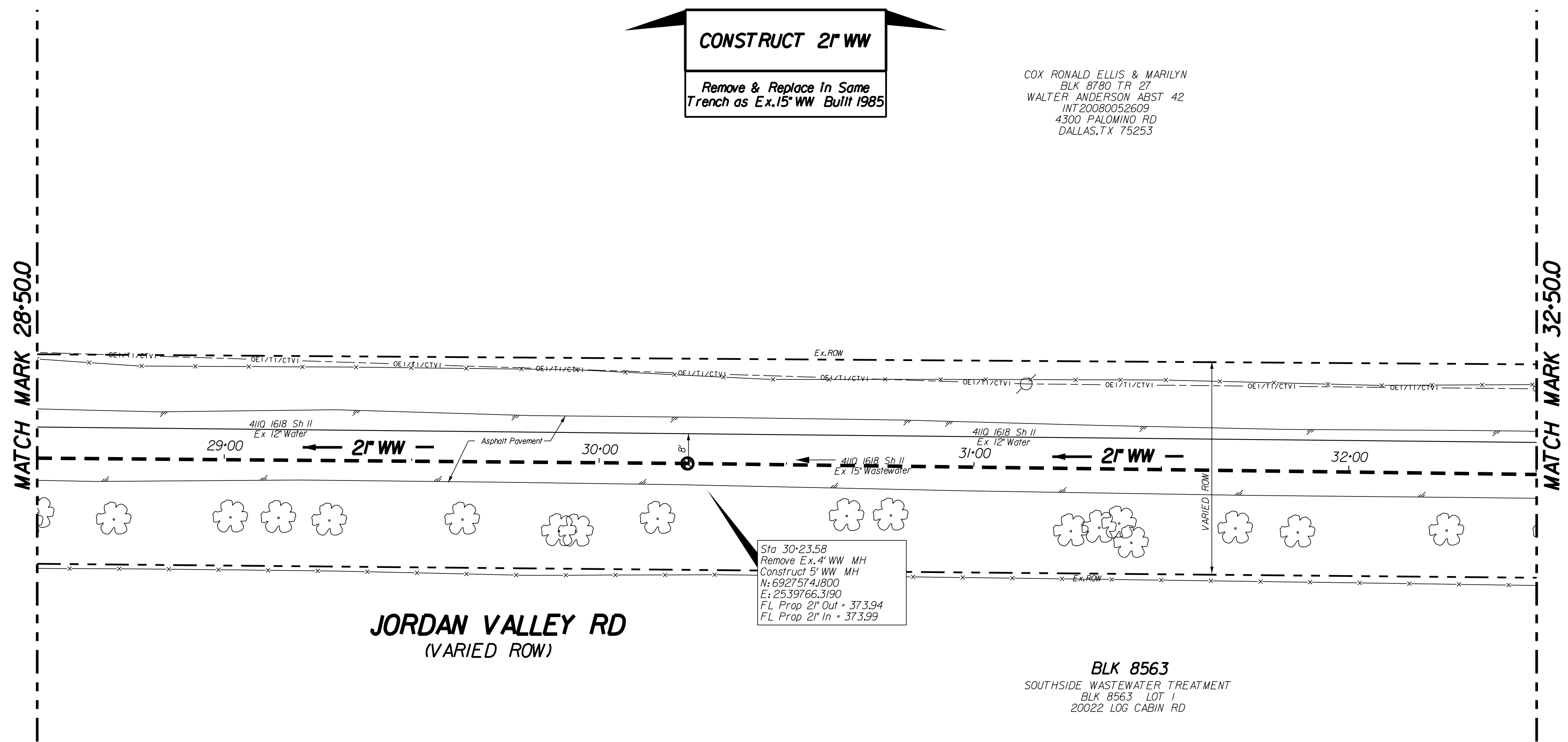
CONSTRUCT 2" WW
Remove & Replace in Same
Trench as Ex. 15" WW Built 1985

COX RONALD ELLIS & MARILYN
BLK 8780 TR 27
WALTER ANDERSON ABST 42
INT 20080052609
4300 PALOMINO RD
DALLAS, TX 75253



GENERAL NOTES

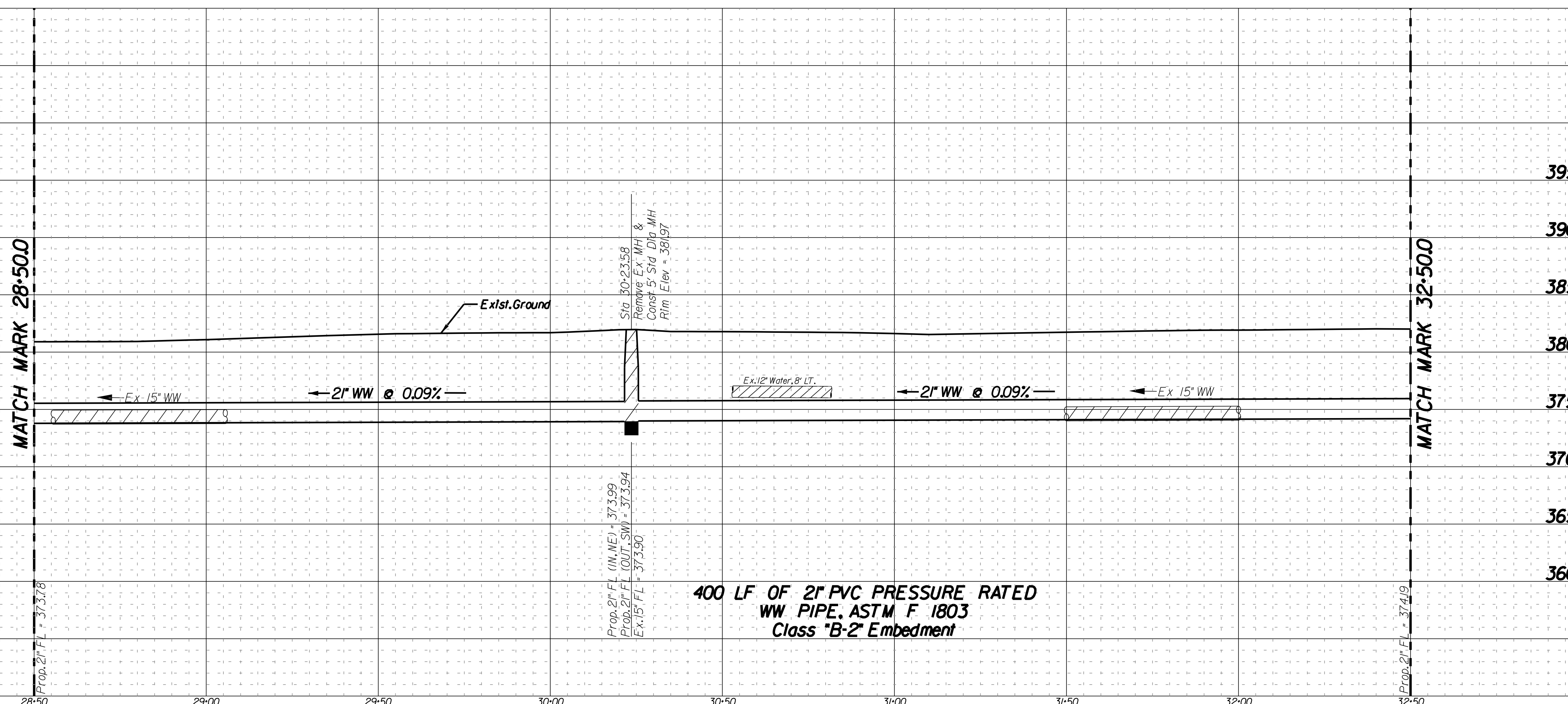
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct. 2011) to these specifications.
- All dimensions to face of curb unless otherwise noted.
- Contractor to verify all utilities prior to construction. No separate pay item.
- Contractor shall maintain existing wastewater flow at all times. No separate item.



Sta 30+23.58
Remove Ex. 4" WW MH
Construct 5" WW MH
N: 6927574.800
E: 2539766.3190
FL Prop 2" Out = 373.94
FL Prop 2" In = 373.99

BLK 8563
SOUTHSIDE WASTEWATER TREATMENT
BLK 8563 LOT 1
20022 LOG CABIN RD

DATE: 3/27/2021 TIME: 6:51:07 PM PLOT DRIVER: PLOTDRV58
SCALE: 1"=20' PENITABLE: I:\TOWN\2003\3101\117WPP-4943-JORDAN 08.dgn
FILE: I:\TOWN\2003\3101\117WPP-4943-JORDAN 08.dgn



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING 6,939,618.333 EASTING 2,554,654.299 LAT 32°47'27.31496"N LONG 96°35'40.35994"W ELEV 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.
 NORTHING 6,939,281.06 EASTING 2,554,209.050 LAT 32°47'22.5446"N LONG 96°35'45.67342"W ELEV 481.932

CONTROL POINT

Point	Northing	Eastng	Elev.	Description
1	6925481.921	2537724.925	384.137	60ds
2	6925813.746	2538008.931	382.471	pk
3	6928413.840	254592.405	382.251	60ds
4	6929726.056	2541867.539	389.213	60ds
5	6928597.585	2540395.986	383.541	60ds

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

HAYDEN CONSULTANTS, INC.
 DAPHNE D. KING
 LICENSED PROFESSIONAL ENGINEER
 103610
 3/7/2021

REFERENCES
 WATER
 59-41-W-60-41-W
 WASTEWATER
 59-41-S-60-41-S

HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
 Ph: 214.753.8100
 Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4943 CONTRACT NO. 21-049/050

2" WASTEWATER
JORDAN VALLEY RD
MIDDLEFIELD RD TO EAST OF PALOMINO
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	370

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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

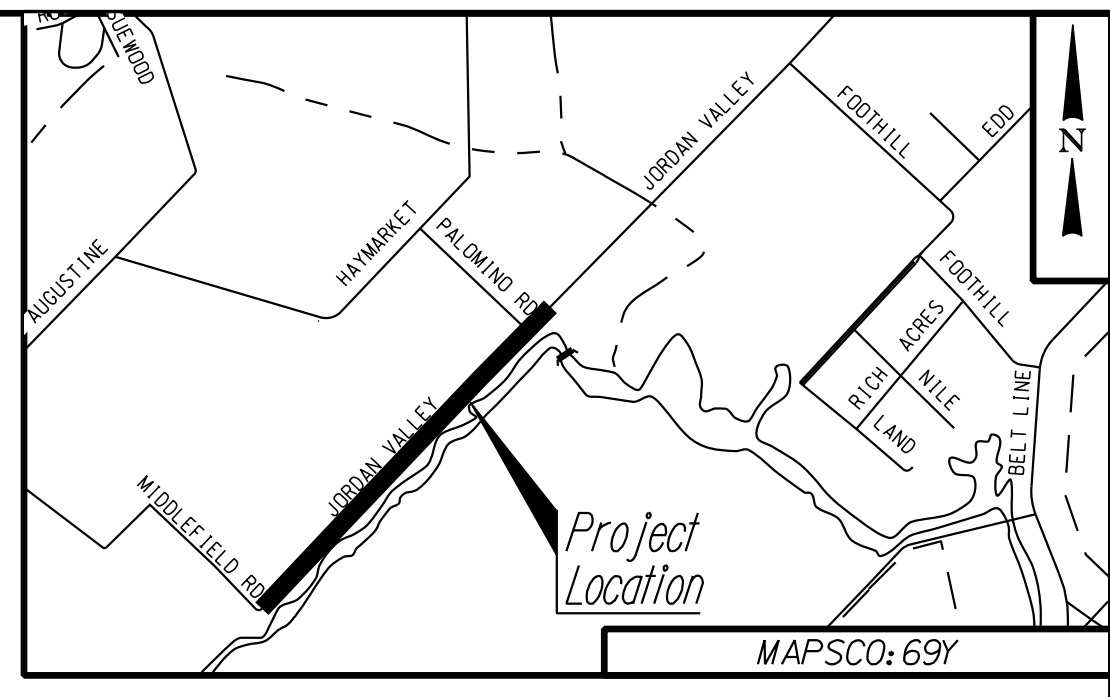
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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

CONSTRUCT 2" WW

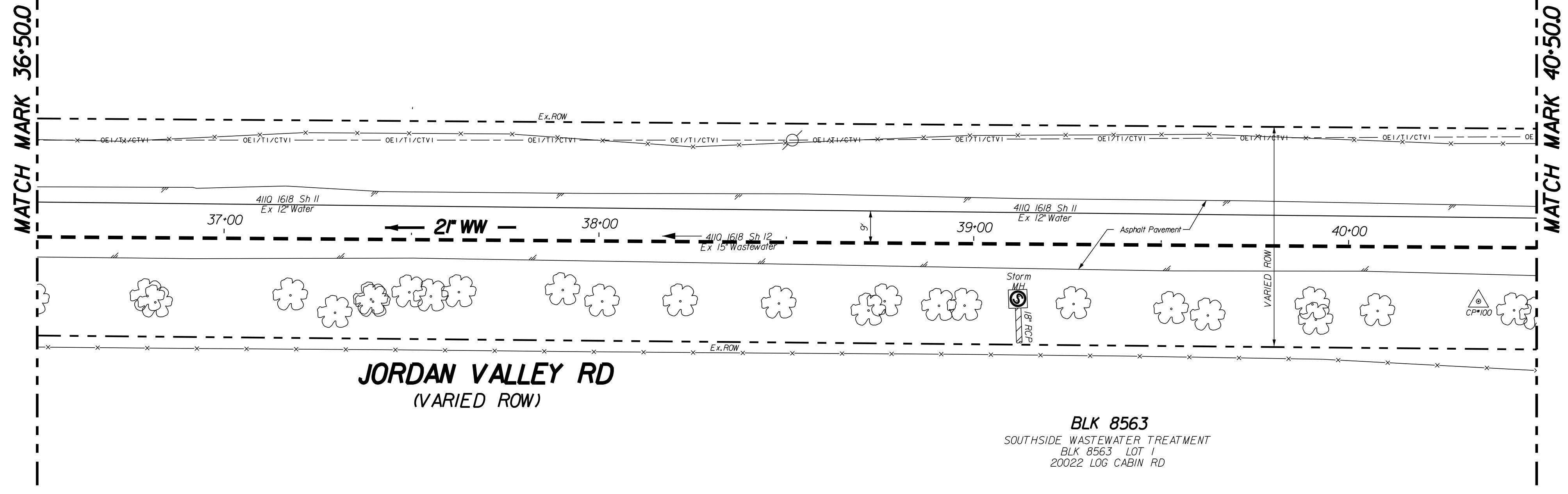
Remove & Replace In Same
Trench as Ex. 15" WW Built 1985

COX RONALD ELLIS & MARILYN
BLK 8780 TR 27
WALTER ANDERSON ABST 42
INT 20080052609
4300 PALOMINO RD
DALLAS, TX 75253



GENERAL NOTES

- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct. 2010) to these specifications.
- All dimensions to face of curb unless otherwise noted.
- Contractor to verify all utilities prior to construction. No separate pay item.
- Contractor shall maintain existing wastewater flow at all times. No separate item.



JORDAN VALLEY RD
(VARIED ROW)

BLK 8563
SOUTHSIDE WASTEWATER TREATMENT
BLK 8563 LOT 1
20022 LOG CABIN RD

DATE: 3/27/2021 TIME: 6:51:08 PM PLOT DRIVER: PLOTDRV58
SCALE: 1/8" = 1'-0" PENITABLE: I:\TOWN\2003\37461
FILE: 21-049\DWG\117-117.dwg APPROPRIATELY COCA SHT 117 WPP-4943-JORDAN 10.dgn

MATCH MARK 36+50.0

MATCH MARK 40+50.0

Prop. 2" FL = 37461

Prop. 2" FL = 37497

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING EASTING LAT LONG ELEV
 6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.
 NORTHING EASTING LAT LONG ELEV
 6,939,128.106 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932

Point	Northing	Easting	Elev.	Description
3	6928413.840	254592.405	382.251	60ds
100	6928286.015	2540484.709	379.17	60ds
101	6928552.612	2540661.052	381.4	60ds

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

HAYDEN CONSULTANTS, INC.
STATE OF TEXAS
DAPHNE D. KING
103610
LICENSED PROFESSIONAL ENGINEER
Daphne D. King
3/4/2021

HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4943 CONTRACT NO. 21-049/050

2" WASTEWATER
JORDAN VALLEY RD
MIDDLEFIELD RD TO EAST OF PALOMINO
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	372

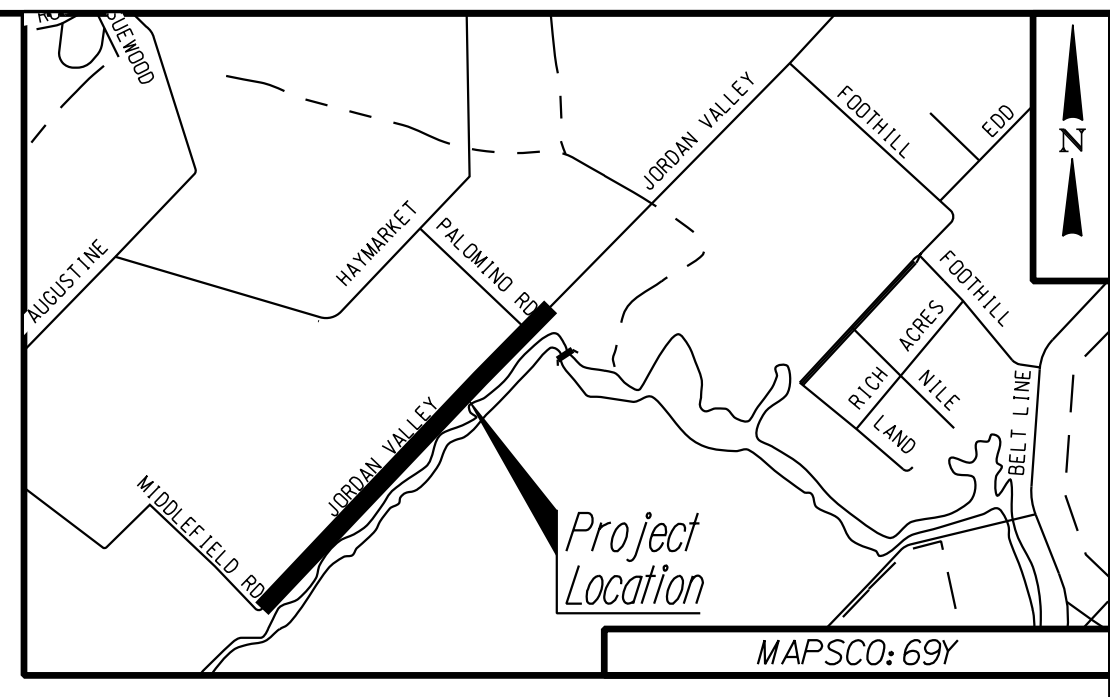
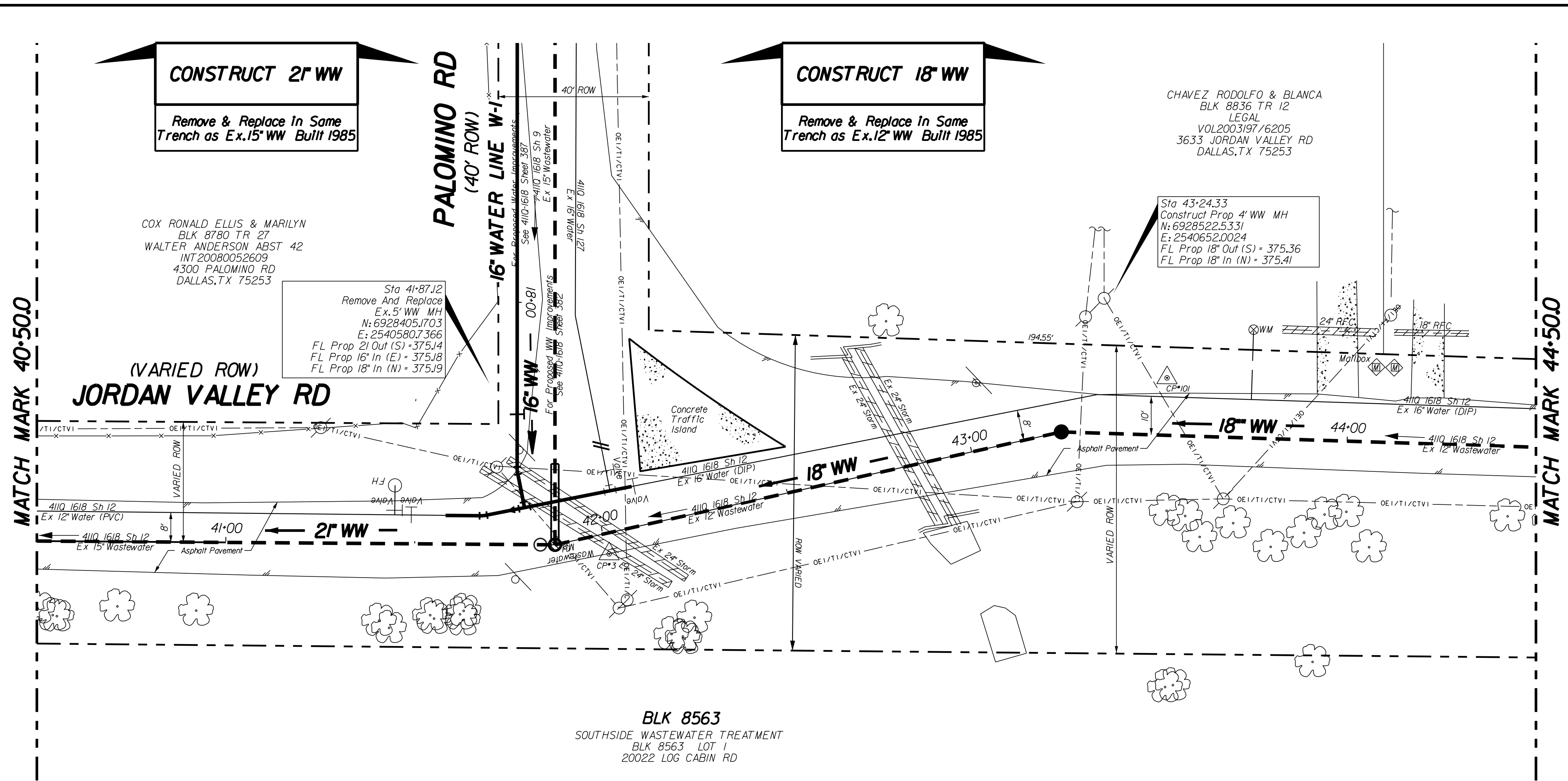
400 LF OF 2" PVC PRESSURE RATED
WW PIPE, ASTM F 1803
Class "B-2" Embedment

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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

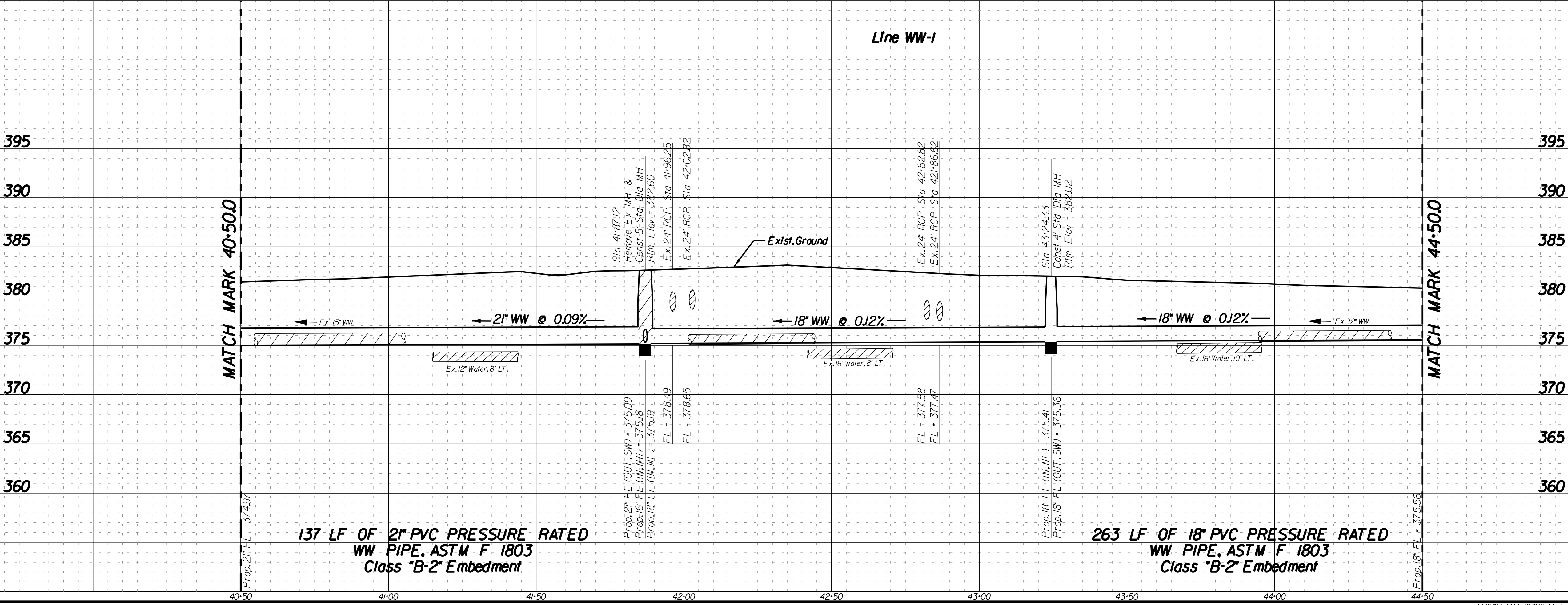
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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



- GENERAL NOTES**
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct. 2011) to these specifications.
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 - Contractor to verify all utilities prior to construction. No separate pay item.
 - Contractor shall maintain existing wastewater flow at all times. No separate item.

DATE: 3/27/2021
 TIME: 6:51:11 PM
 USER: PLOT DRIVER: PLOTDRVS8
 SCALE: 1:25
 FILE: 117-WWP-4943-JORDAN 11.dgn



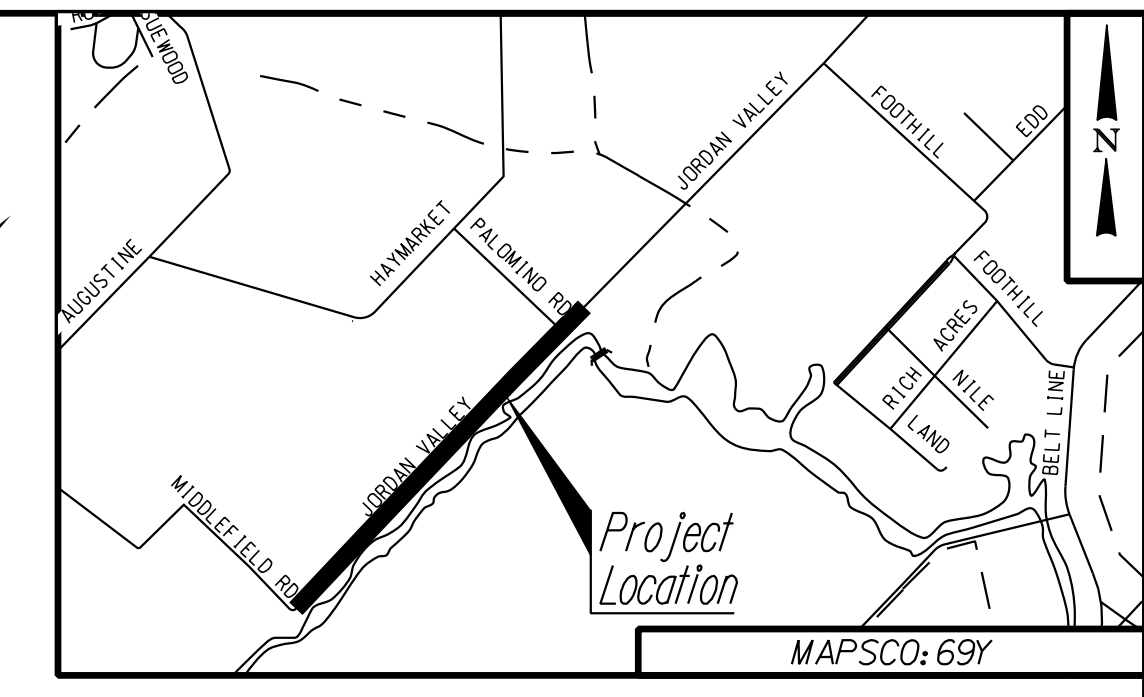
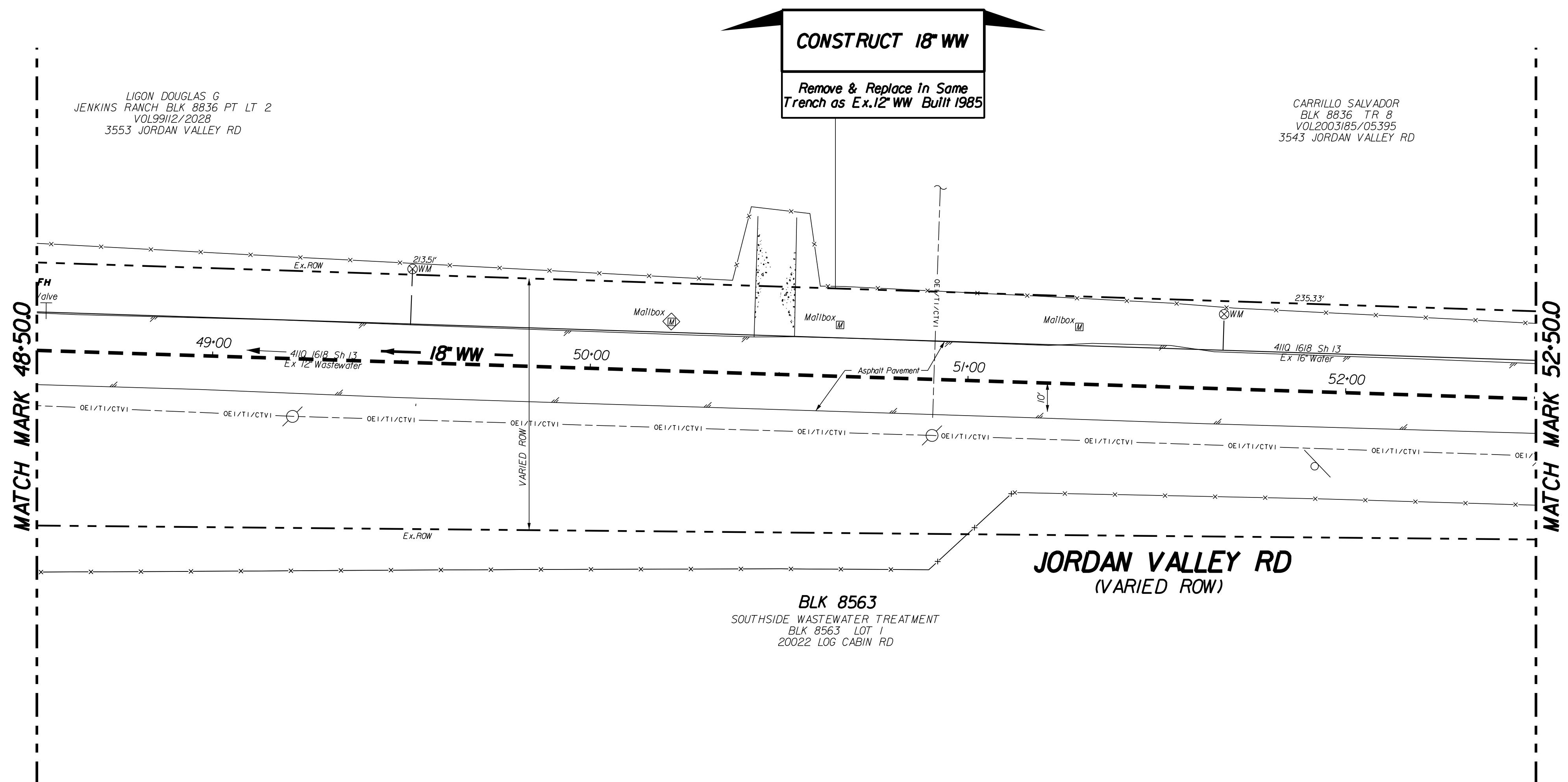
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,618.333	2,554,654.299	32°47'27.31496\" N	96°35'40.35994\" W 478.055
Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12 inch Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. at Edd Rd.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,128.06	2,554,209.050	32°47'22.5446\" N	96°35'45.67342\" W 481.932
CONTROL POINT			
Point	Northing	Easting	Elev. Description
3	6928413.840	254592.405	382.251 60ds
101	6928552.612	2540661.052	381.4 60ds
Horizontal Scale: 1\" = 20'		Vertical Scale: 1\" = 6'	
REFERENCES			
WATER 59-4\" W			
WASTEWATER 59-4\" S			
HAYDEN CONSULTANTS, INC.		5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com	
PID: 4943		CONTRACT NO. 21-049/050	
2\" AND 18\" WASTEWATER			
JORDAN VALLEY RD			
MIDDLEFIELD RD TO EAST OF PALOMINO			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
HCI	HCI	MAR 2021	4110 1618 373

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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

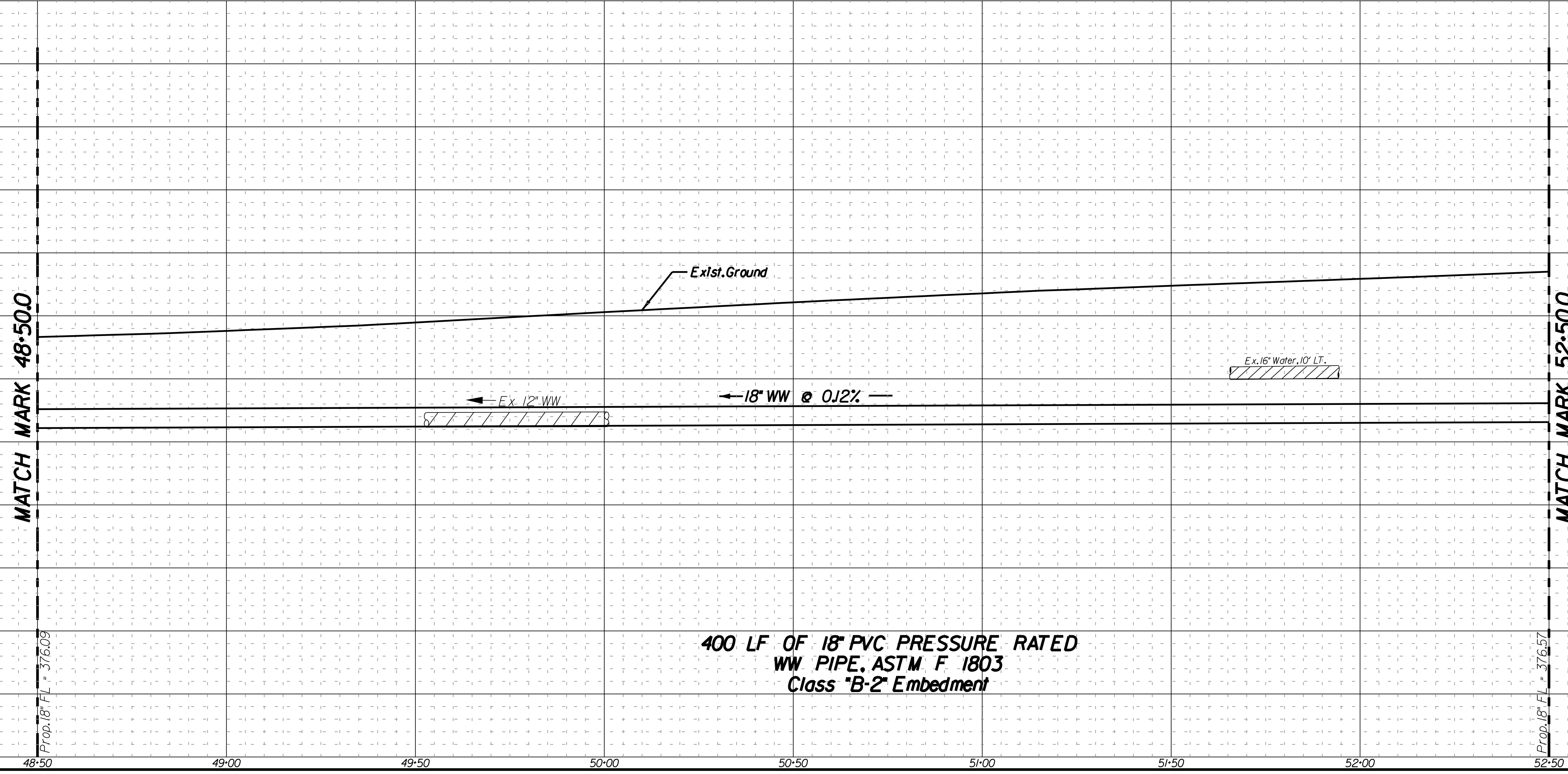
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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



- GENERAL NOTES**
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct. 2011) to these specifications.
 - All dimensions to face of curb unless otherwise noted.
 - Contractor to verify all utilities prior to construction. No separate pay item.
 - Contractor shall maintain existing wastewater flow at all times. No separate item.

DATE: 3/27/2021
 TIME: 6:51:14 PM
 PLOT DRIVER: PLOTDRV58
 PEN TABLE: I:\DWG\2003\37609\37609.dwg
 SCALE: 1/8"=1'-0"
 FILE: Z:\Projects\4943\117\Drawings\WPP\4943-117\WPP-4943-JORDAN 13.dgn



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING EASTING LAT LONG ELEV
 6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.
 NORTHING EASTING LAT LONG ELEV
 6,939,128.06 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932

CONTROL POINT

Point	Northing	Easting	Elev.	Description
1	6925481.921	2537724.925	394.37	60ds
2	6925813.746	2538008.931	382.471	pk5
3	6928413.840	254592.405	382.251	60ds
4	6929726.056	2541867.539	389.213	60ds
5	6928597.385	2540395.986	383.54	60ds

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

HAYDEN CONSULTANTS, INC.
 DAPHNE D. KING
 LICENSED PROFESSIONAL ENGINEER
 103610
 3/4/2021

REFERENCES

WATER	59-41-W
WASTEWATER	59-41-S

HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4943 CONTRACT NO. 21-049/050

18" WASTEWATER
JORDAN VALLEY RD
MIDDLEFIELD RD TO EAST OF PALOMINO
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	375

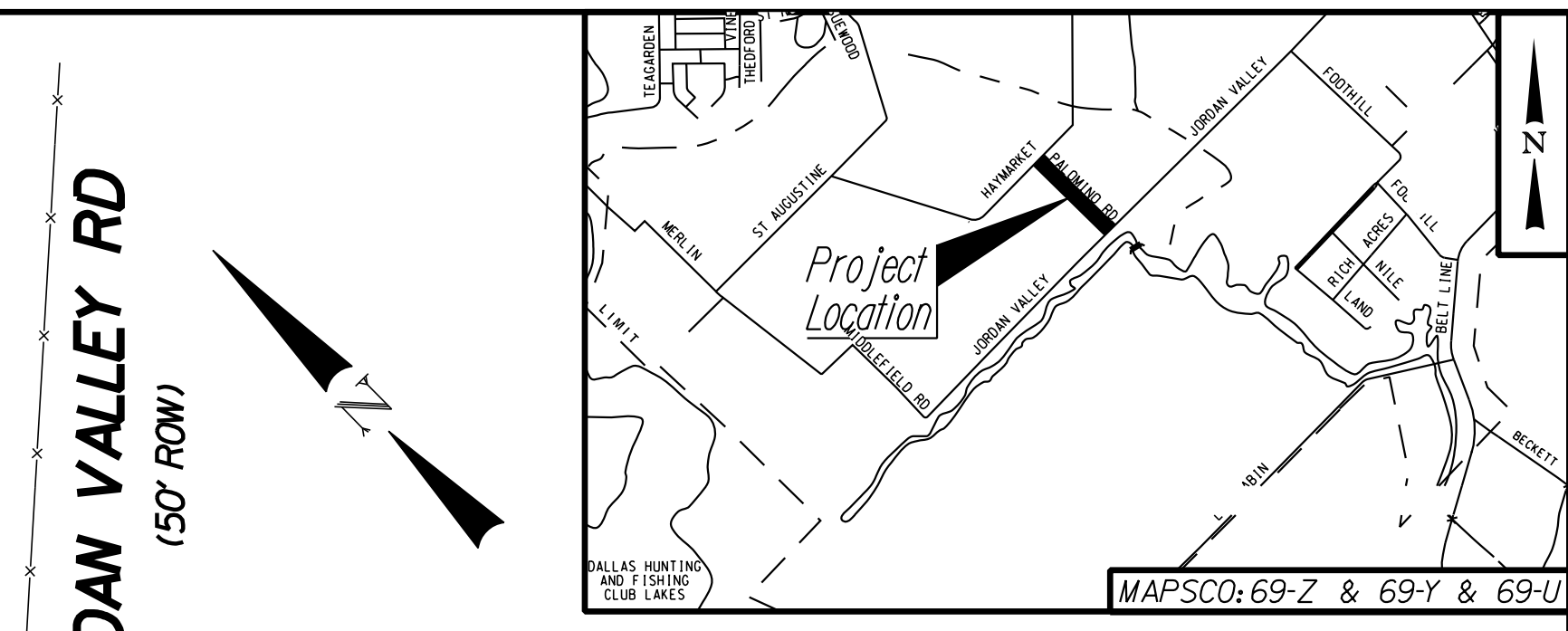
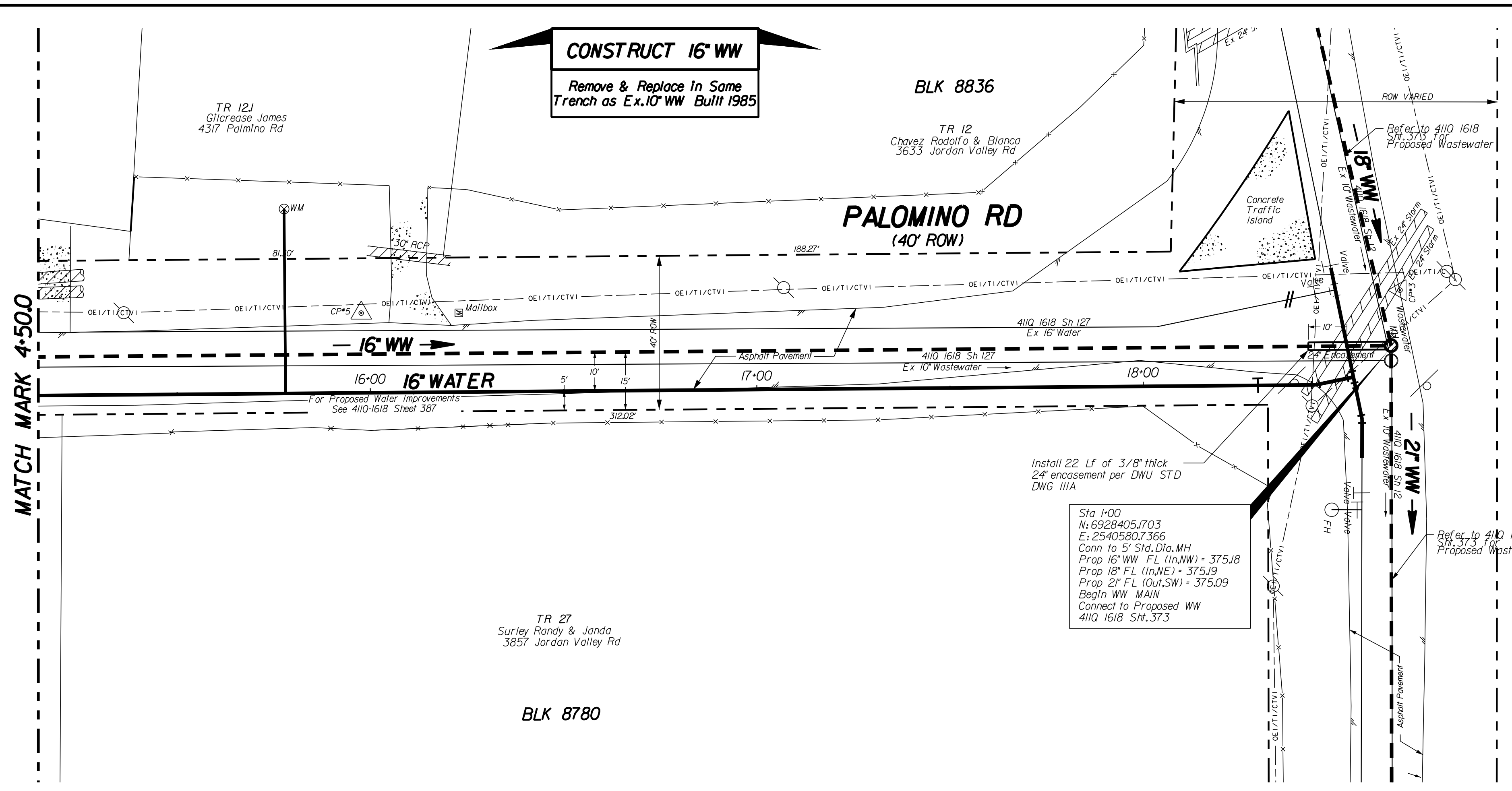
400 LF OF 18" PVC PRESSURE RATED
 WW PIPE, ASTM F 1803
 Class "B-2" Embedment

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

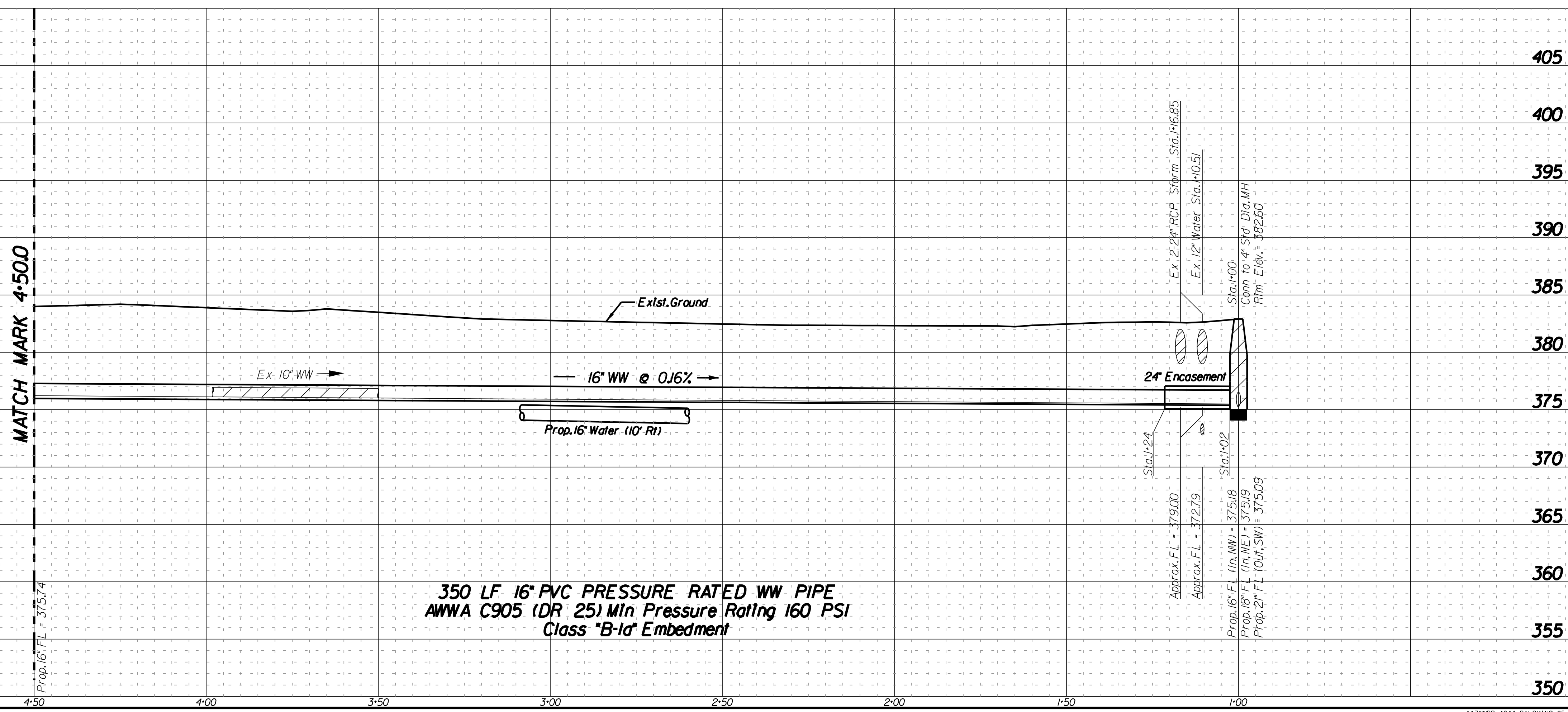
CAUTION ~ GAS !
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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

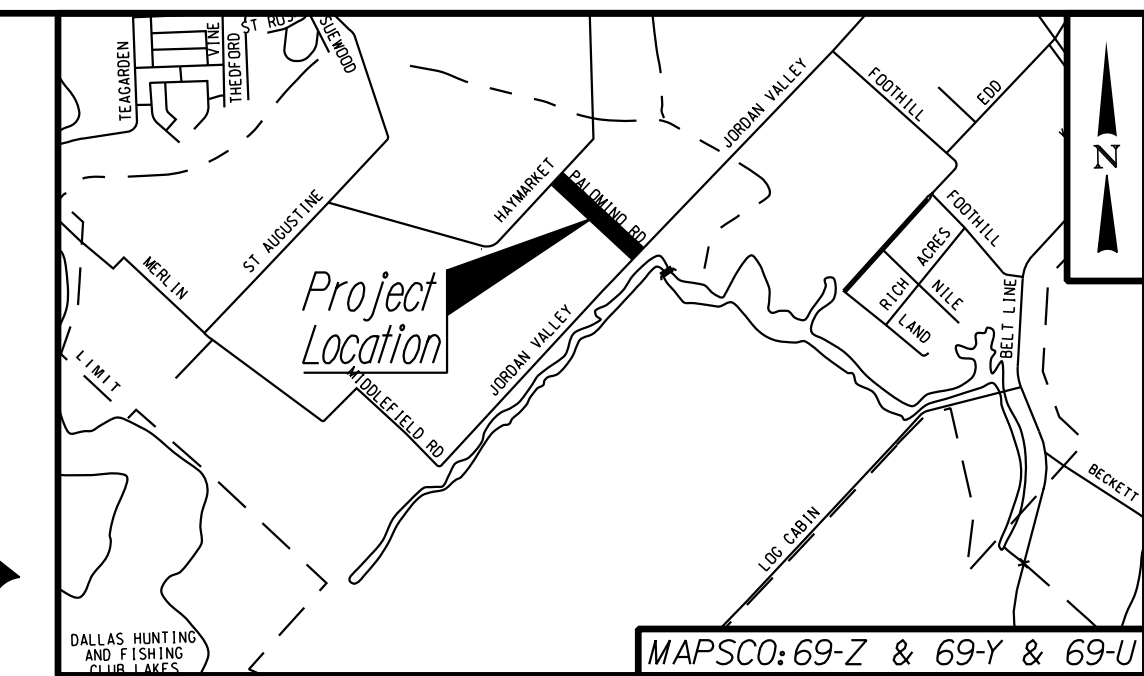
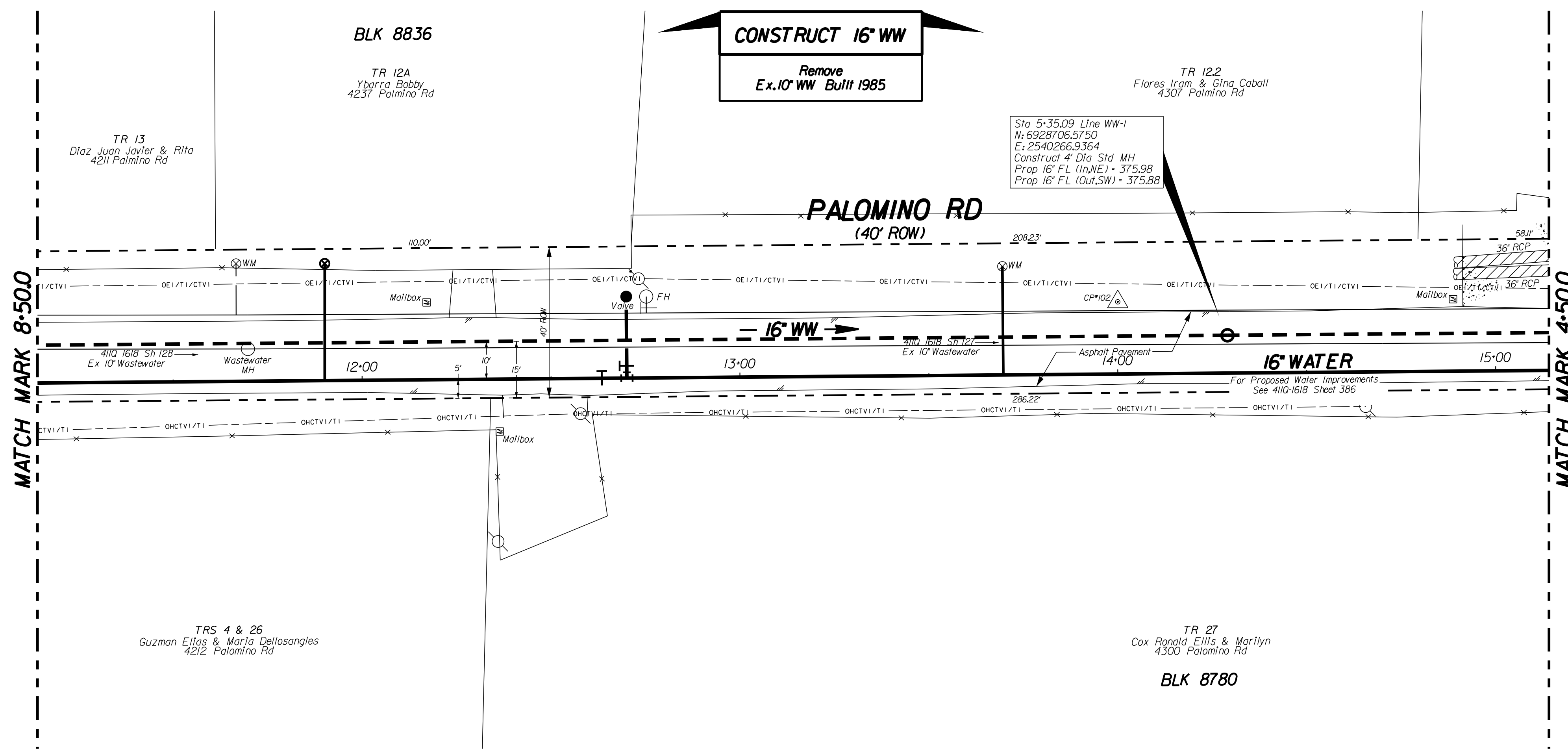


- GENERAL NOTES**
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct, 2011) to these specifications.
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 - Contractor to verify all utilities prior to construction. No separate pay item.
 - Contractor shall maintain existing wastewater flow at all times. No separate item.
 - Contractor shall construct water main prior to construction of wastewater main.



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square 1s on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,618.333	2,554,654.299	32°47'27.31496"N	96°35'40.35994"W 478.055
Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,128.06	2,554,209.050	32°47'22.5446"N	96°35'45.67342"W 481.932
CONTROL POINT			
Point	Northing	Easting	Elev. Description
3	6928413.840	254592.405	382.251 60ds
5	6928597.385	2540395.986	383.54 60ds
101	6928552.612	2540661.052	381.4 60ds
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES			
WATER 59-41W			
WASTEWATER 59-41S			
HAYDEN CONSULTANTS, INC.		5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com	
PID: 4944		CONTRACT NO. 21-049/050	
16" WASTEWATER			
PALOMINO ROAD			
JORDAN VALLEY RD TO HAYMARKET RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
HCI	HCI	MAR 2021	4110 1618 378

DATE: 3/10/2021 TIME: 10:02:52 AM PLOT DRIVER: PLOTDRV58
 SCALE: 1/2" = 10' PENITABLE: I:\P\2013-14\117000\4944-PALOMINO_05.dgn
 FILE: Z:\Projects\117000\Drawings\117000\4944-PALOMINO_05.dgn



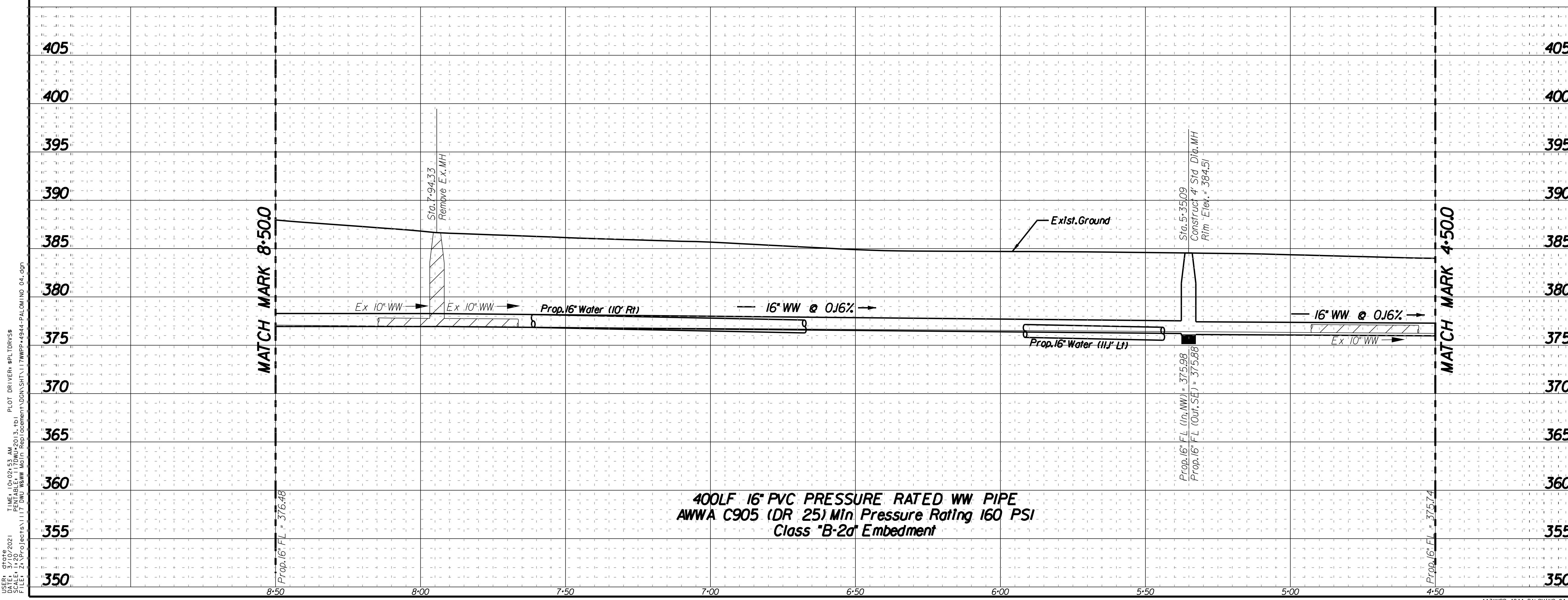
- GENERAL NOTES**
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct, 2011) to these specifications.
 - All dimensions to face of curb unless otherwise noted.
 - Contractor to verify all utilities prior to construction. No separate pay item.
 - Contractor shall maintain existing wastewater flow at all times. No separate item.
 - Contractor shall construct water main prior to construction of wastewater main.

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 S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

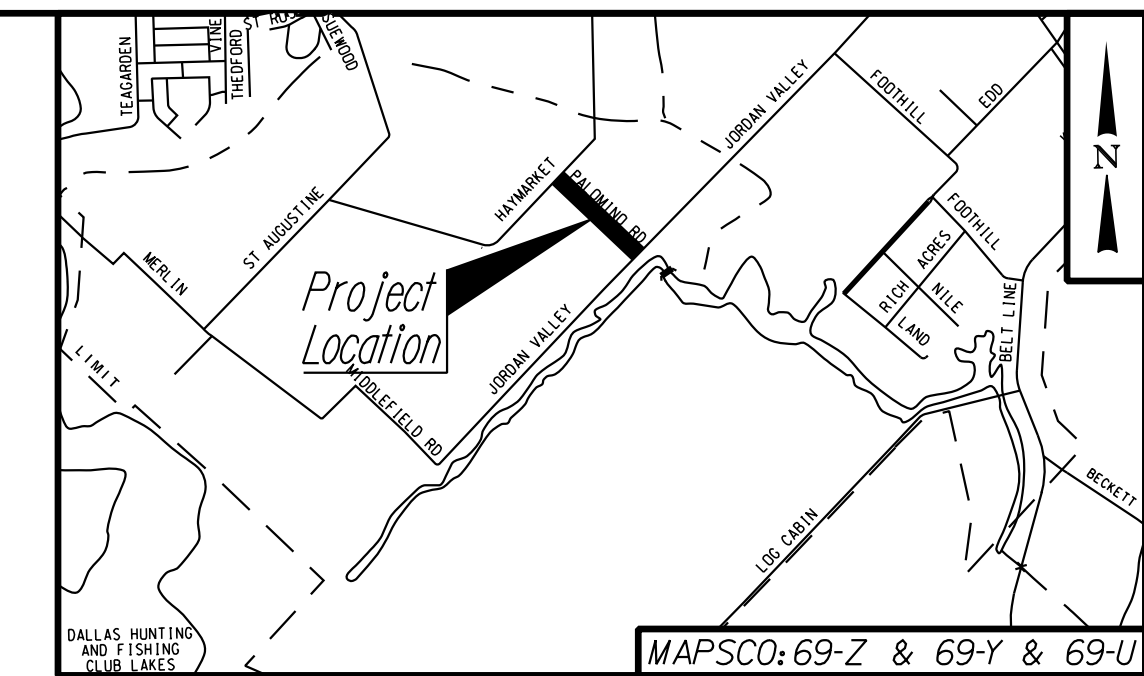
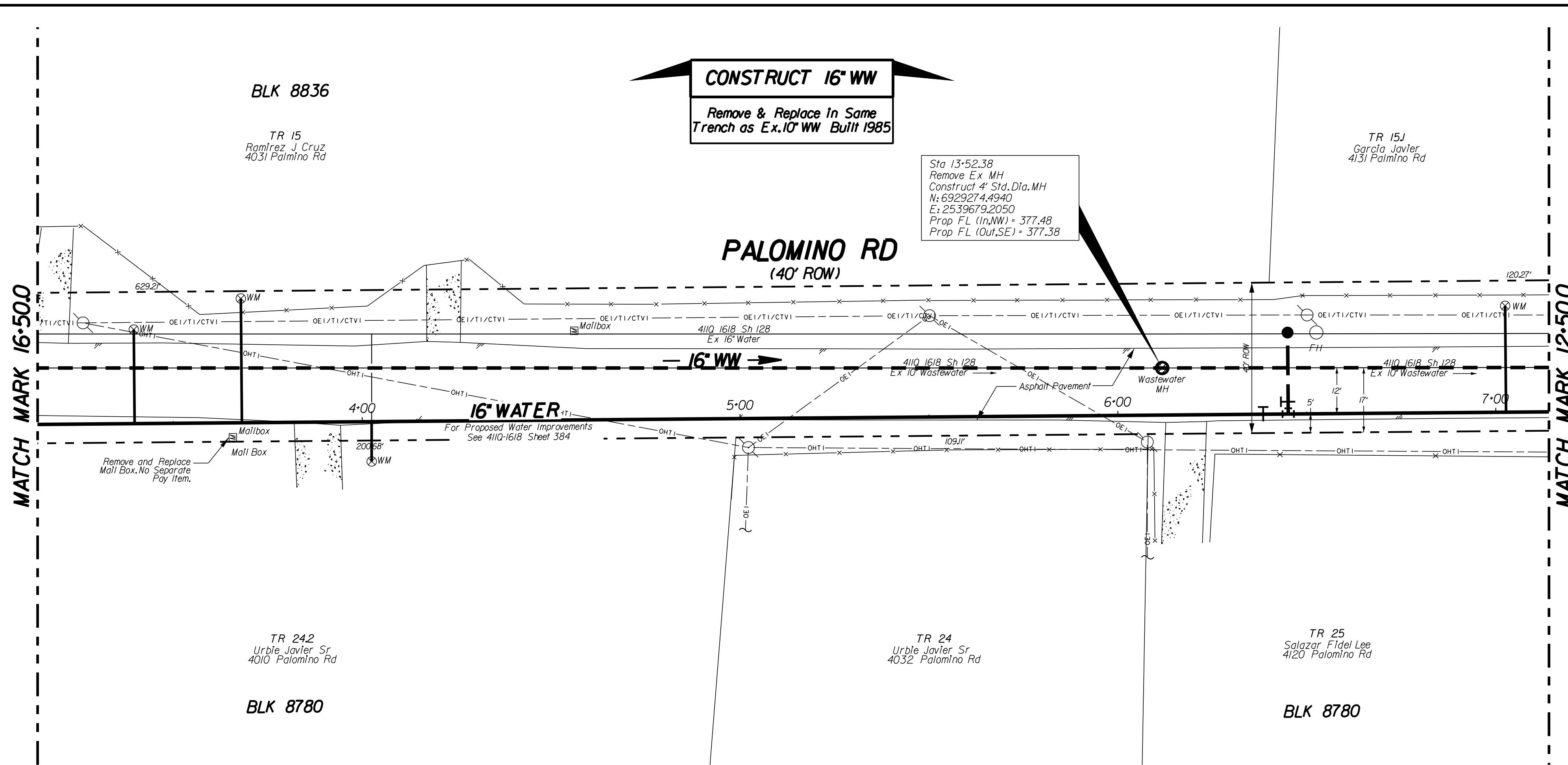
CAUTION ~ GAS !
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,618.333	2,554,654.299	32°47'27.31496"N	96°35'40.35994"W 478.055
Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.			
NORTHING	EASTING	LAT	LONG ELEV
6,939,128.06	2,554,209.050	32°47'22.5446"N	96°35'45.67342"W 481.932
CONTROL POINT			
Point	Northing	Easting	Elev. Description
3	6928413.840	254592.405	382.251 60ds
5	6928597.385	2540395.986	383.354 60ds
102	6928733.185	2540252.347	384.51 60ds
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES			
WATER 59-41W			
WASTEWATER 59-41S			
HAYDEN CONSULTANTS, INC.		5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com	
PID: 4944		CONTRACT NO. 21-049/050	
16" WASTEWATER			
PALOMINO ROAD			
JORDAN VALLEY RD TO HAYMARKET RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
HCI	HCI	MAR 2021	4110
			NUMBER
			1618
			SHEET
			379

DATE: 3/10/2021 TIME: 10:02:53 AM PLOT DRIVER: PLOTDRWS8
 PENFILES: 17000*20.0, 3, 10
 SCALE: 1/2" = 20'
 FILE: 21-049\p4944-117-117.dwg MAPSCO 69-Z & 69-Y & 69-U
 117WPP_4944-PALOMINO 04.dgn



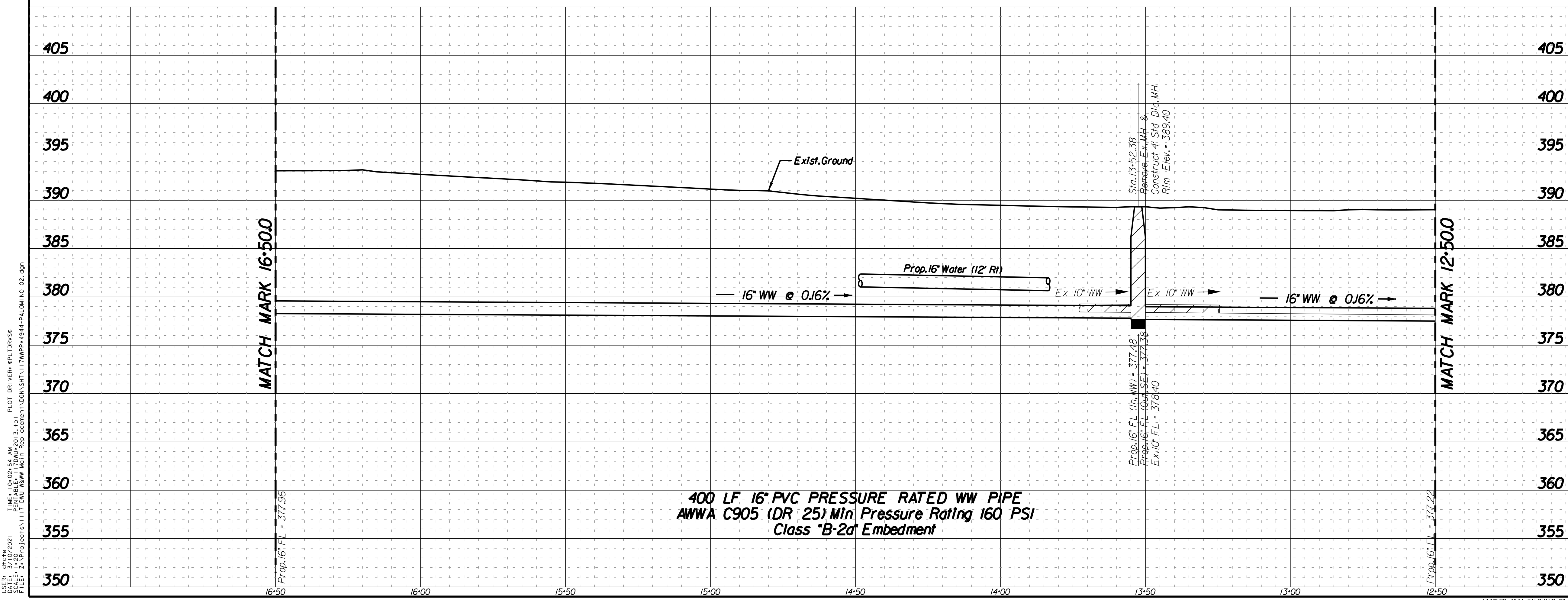
- GENERAL NOTES**
- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction and Dallas Water Utilities Addendum (Oct. 2011) to these specifications.
 - All dimensions to face of curb unless otherwise noted.
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 - Contractor shall maintain existing wastewater flow at all times. No separate item.
 - Contractor shall construct water main prior to construction of wastewater main.

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 S.B.C. 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

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



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square is on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
 NORTHING EASTING LAT LONG ELEV
 6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055

Benchmark 70-E-2 Edd Rd. - Spicewood Dr. 7/14/2009 Square on North End of A 12" Concrete Culvert in Front of House *946 0.2 Mile South of Spicewood Dr. At Edd Rd.
 NORTHING EASTING LAT LONG ELEV
 6,939,281.06 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932

CONTROL POINT

Point	Northing	Eastng	Elev.	Description
3	6928413.840	254592.405	382.251	60ds
5	6928597.385	2540395.986	383.54	60ds
6	6929163.5070	2539770.466	388.917	60ds

Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 6'

HAYDEN CONSULTANTS, INC.
 DAPHNE D. KING
 LICENSED PROFESSIONAL ENGINEER
 103610
 3/10/2021

REFERENCES

WATER 59-41W
 WASTEWATER 59-41S

HAYDEN CONSULTANTS, INC. 5646 MILTON ST., SUITE 500 DALLAS, TEXAS 75206
 Ph: 214.753.8100 Firm Registration No. 00640 www.HaydenConsultants.com

PID: 4944 CONTRACT NO. 21-049/050

16" WASTEWATER
PALOMINO ROAD
JORDAN VALLEY RD TO HAYMARKET RD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	381

DATE: 3/10/2021 TIME: 10:02:54 AM PLOT DRIVER: PLOTDRV58
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 FILE: Z:\Projects\117.Dwg MAIN.MDT REPLICATED\Y:\DATA\44-PALOMINO_02.dgn

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

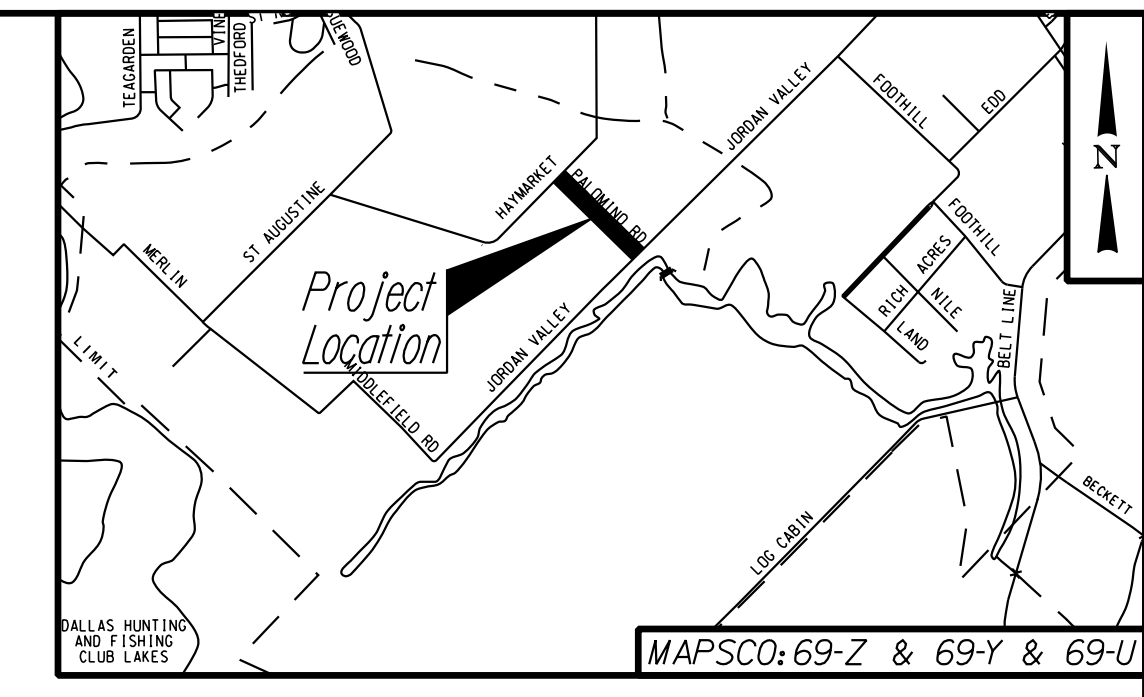
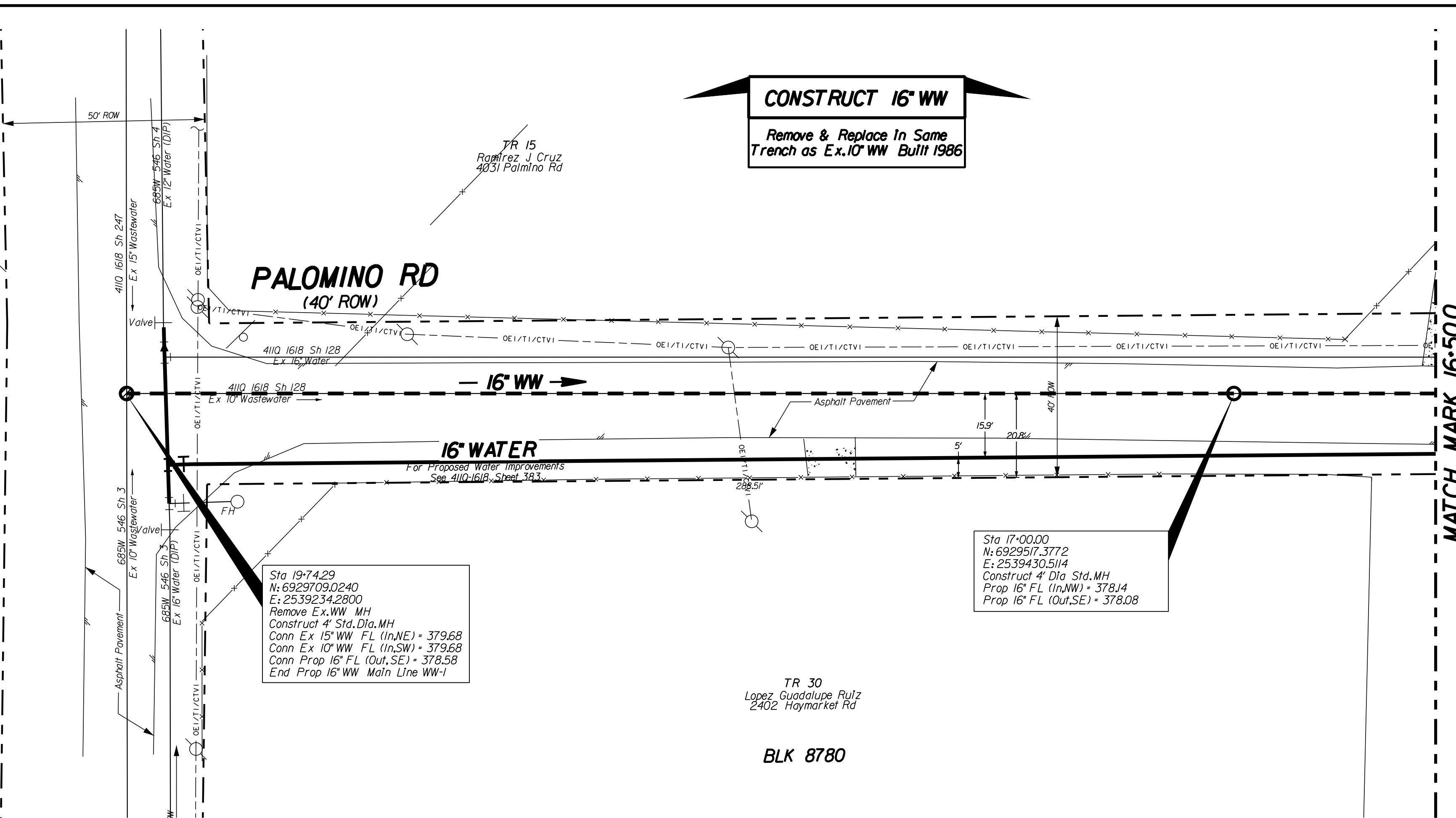
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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

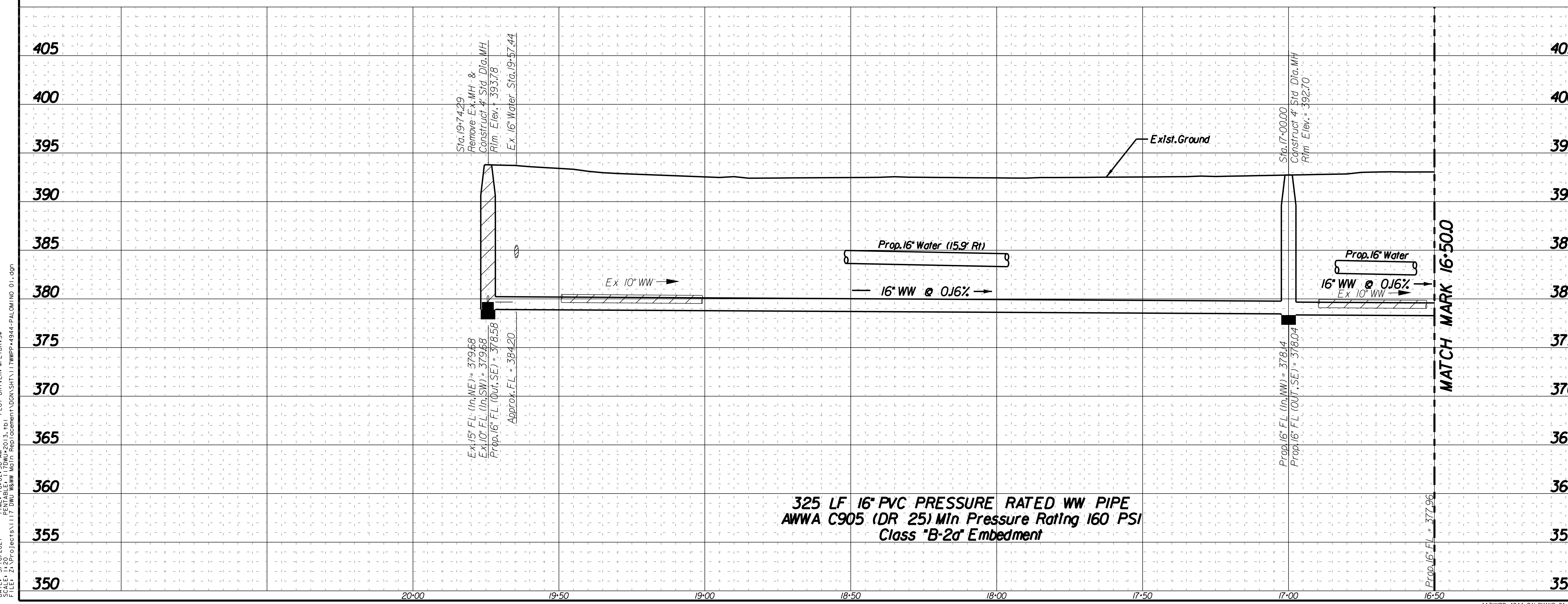
CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

BLK 8771
TR 28 Owens Preston Roy Etal
2381 Haymarket Rd

BLK 8771
TR 27 Webb Walter E & Melissa A
2411 Haymarket Rd



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REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

Benchmark 70-E-1 Edd Road - Spicewood Drive 07/14/2009 A square 1s on South end of 18 inch concrete culvert under Spicewood Drive at Edd Road.
NORTHING EASTING LAT LONG ELEV
6,939,618.333 2,554,654.299 32°47'27.31496"N 96°35'40.35994"W 478.055

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NORTHING EASTING LAT LONG ELEV
6,939,128.06 2,554,209.050 32°47'22.5446"N 96°35'45.67342"W 481.932

CONTROL POINT

Point	Northing	Eastng	Elev.	Description
3	692843.840	254592.405	382.251	60ds
5	6928597.385	2540395.986	383.54	60ds

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

REFERENCES
WATER 59-41W
WASTEWATER 59-41S

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PID: 4944 CONTRACT NO. 21-049/050

16" WASTEWATER
PALOMINO ROAD
JORDAN VALLEY RD TO HAYMARKET RD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
HCI	HCI	MAR 2021	4110	1618	382

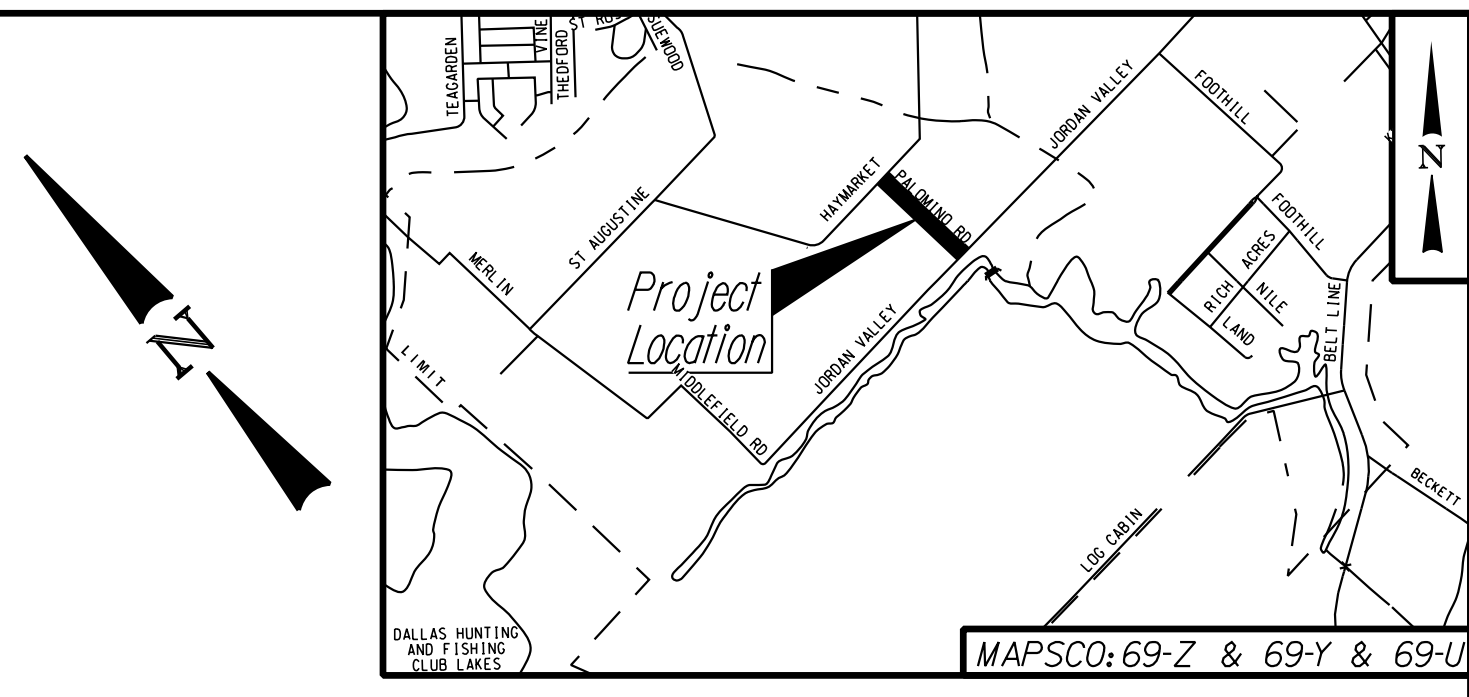
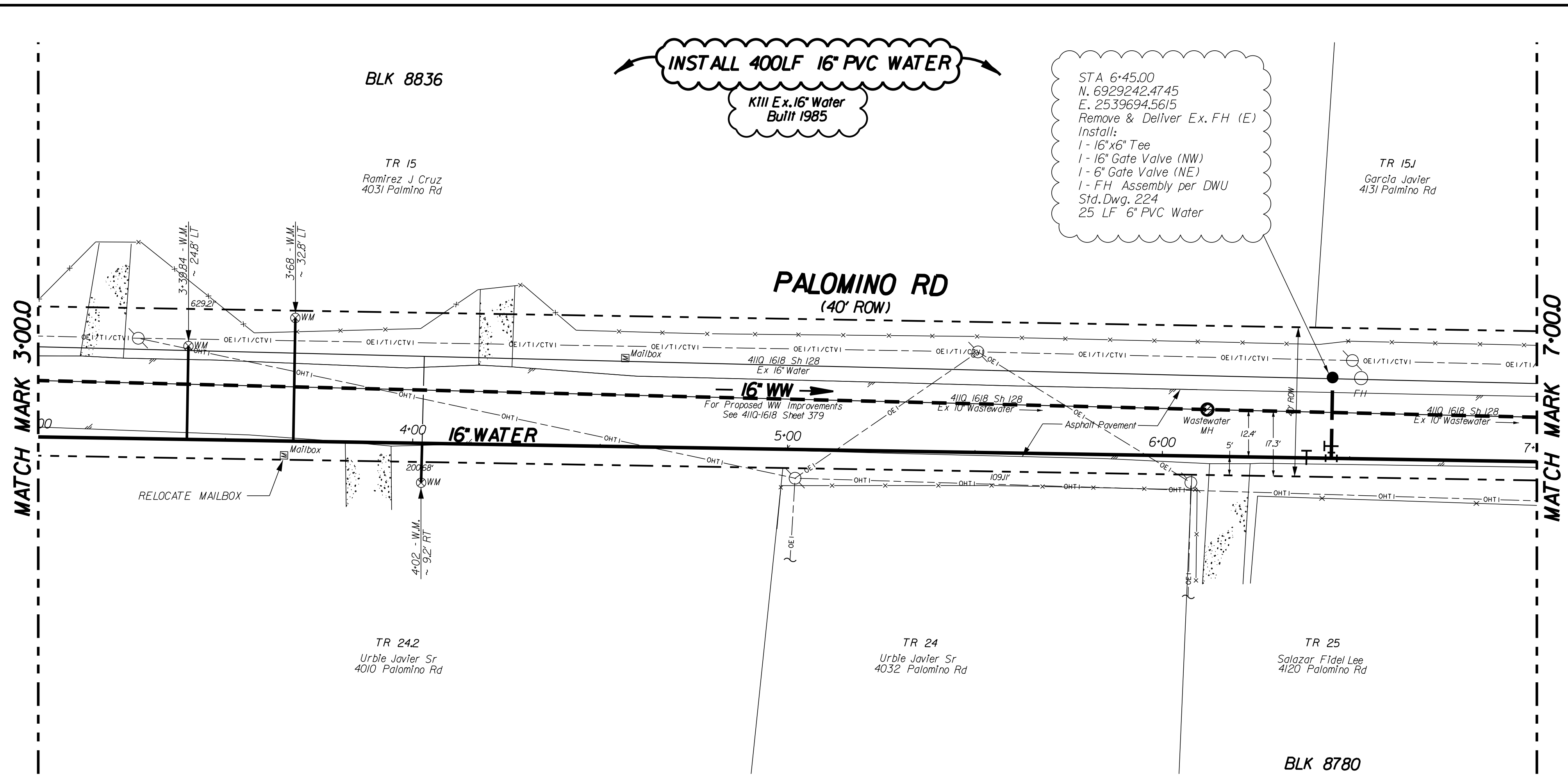
DATE: 3/10/2021
 TIME: 10:02:56 AM
 USER: PLOTDRIVER
 PLOT: PLOTDRIVER
 SCALE: 1/8"=1'-0"
 FILE: Z:\Projects\117-DWG\WATER\117-WMP-4944-PALOMINO 01.dgn

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.MOS. Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

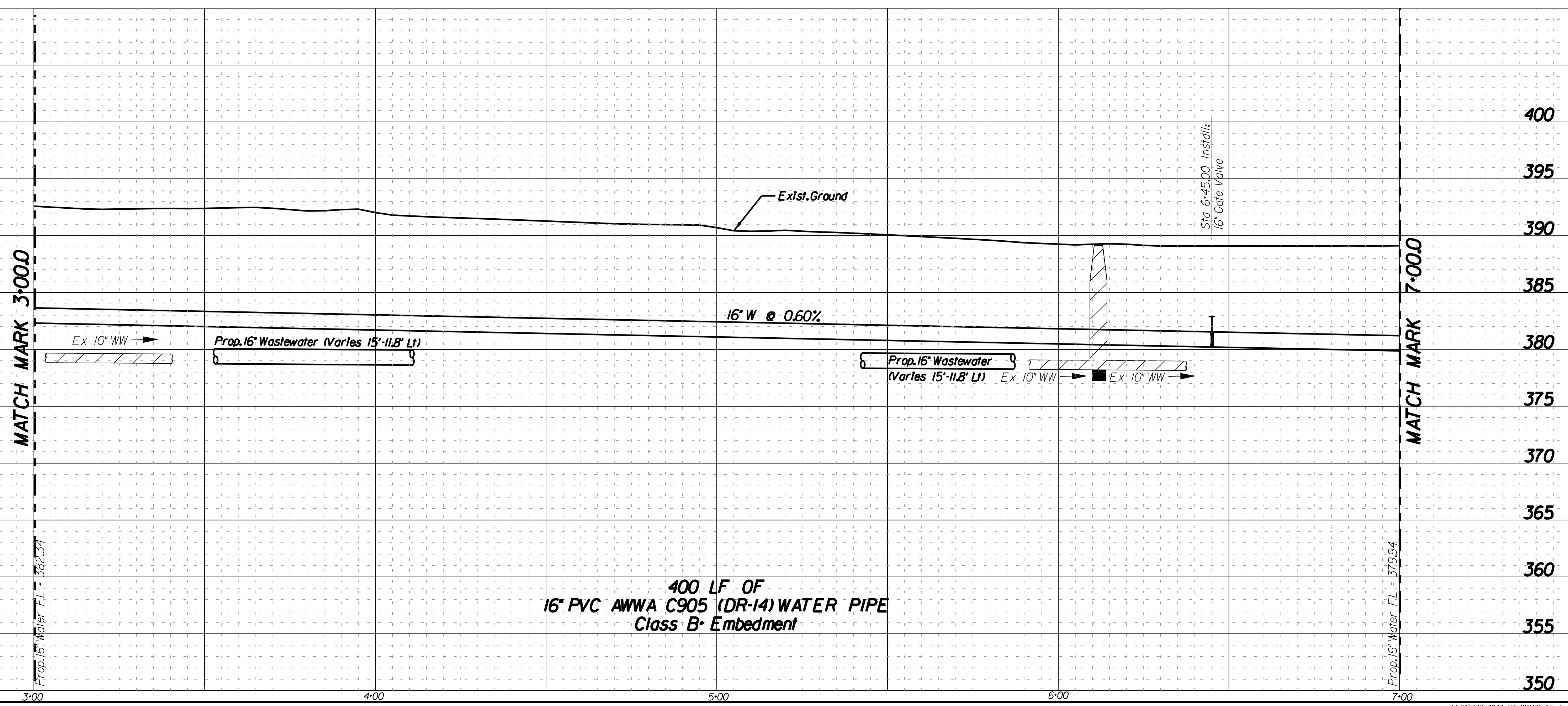
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DATE: 3/10/2021 TIME: 10:02:58 AM PLOT DRIVER: PLOTDRV58 PENTABLE: I:\PWP\2013\1700\1618\1618-TRPP-4944-PALOMINO 07.dgn SCALE: 1/2"=1'-0" FILE: Z:\Projects\1177-DWG\MAIN\DWG\1618-TRPP-4944-PALOMINO 07.dgn



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
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PID: 4944		CONTRACT NO. 21-049/050	
16" WATER			
PALOMINO ROAD			
JORDAN VALLEY RD TO HAYMARKET RD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
HCI	HCI	MAR 2021	4110
			NUMBER
			384
			SHEET

