

Town of Addison, Texas, Dallas County

WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS

LAKE FOREST DRIVE FROM BELT LINE ROAD TO CUL-DE-SAC DEAD END

PROJECT NUMBER 2021-04-C

BID NUMBER 23-23

January, 2023



MAYOR
Joe Chow

COUNCIL

Kathryn Wheeler	Mayor Pro Tempore
Lori Ward	Deputy Mayor Pro Tempore
Tom Braun	Council Member
Darren Gardner	Council Member
Guillermo Quintanilla	Council Member
Eileen Resnik	Council Member

CITY MANAGER

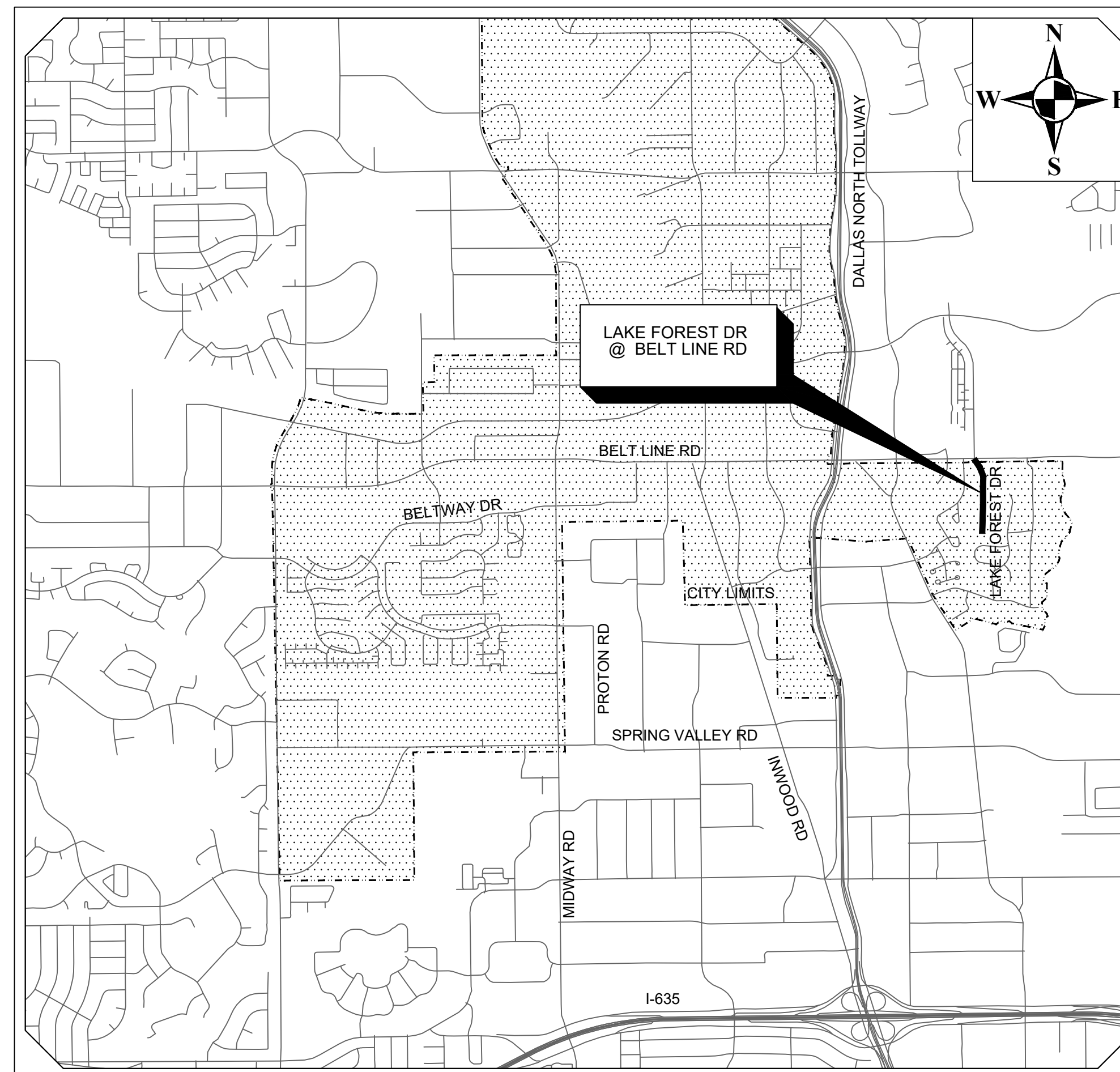
David Gaines

Director of Public Works & Engineering Services

Shannon Hicks, P.E.

Capital/Development Projects Manager - Public Works & Engineering Services

Wilson K. Kakembo, P.E.



Town of Addison Location Map MAPSCO 15 A
Scale: N.T.S.

SHEET NO.	SHEET TITLE
01	TITLE SHEET
02	GENERAL NOTES & LEGEND (1 OF 2)
03	GENERAL NOTES & LEGEND (2 OF 2)
04	BID QUANTITIES
05	WW PLAN & PROFILE STA 1+00-4+00
06	WW PLAN & PROFILE STA 4+00-7+50
07	WW PLAN & PROFILE STA 7+50-10+50
08	WW PLAN & PROFILE STA 10+50-14+31.73
09	WATER PLAN STA 0+00-7+00
10	WATER PLAN STA 7+00-13+12.30
11	PAVING REPAIR PLAN (1 OF 2)
12	PAVING REPAIR PLAN (2 OF 2)
13	WASTEWATER DETAILS
14	WATER DETAILS (1 OF 3)
15	WATER DETAILS (2 OF 3)
16	WATER DETAILS (3 OF 3)
17	PAVE DETAILS TRENCHLINE & RESTORATION
18	EROSION CONTROL DETAILS
19	EROSION CONTROL AND SOD PLAN (1 OF 2)
20	EROSION CONTROL AND SOD PLAN (2 OF 2)



SUBMITTED BY:  DATE: 1/23/2023

David Rankin, P.E.
Dannenbaum Engineering Company-Dallas, LLC

APPROVED BY:  DATE: 1/23/2023

Wilson K. Kakembo, P.E.

REV. NO.	DESCRIPTION	CHK. BY	DATE



CONTACT BY CALLING 811 OR USING GEOREMOTE OR LOCATE AT LEAST 2 WORKING DAYS BEFORE YOU DIG. FOR MORE INFORMATION SEE www.texas811.org



Drawing file: G:\1220\5294-01 Addison Lake Forest Drive\DWG\General\01-COVER.dwg DATE: Jan 23, 2023 TIME: 9:24am

1. GENERAL NOTES FOR ALL CONSTRUCTION ACTIVITIES

- 1.1. ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS. IF NOT EXPLICITLY SPECIFIED IN TOWN DOCUMENTS, NCTCOG OR THE APPROPRIATE GOVERNING BODY'S, STANDARDS AND DETAILS SHALL REGULATE CONSTRUCTION, TESTING, AND MATERIALS.
- 1.2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT PUBLIC WORKS & ENGINEERING SERVICES DEPARTMENT FOR A PERMIT TO WORK WITHIN TOWN ROW.
- 1.3. ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE TOWN, SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 21 CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE TOWN.
- 1.4. CONTRACTOR SHALL NOTIFY THE TOWN AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 1.5. CONTRACTORS ARE ALLOWED TO MAKE CONNECTIONS TO THE TOWN WATER SYSTEM BY OPENING AN ACCOUNT THROUGH THE ADDISON FINANCE DEPARTMENT AND RENTING A FIRE HYDRANT METER. THE COMPANY OR INDIVIDUAL IS SOLELY RESPONSIBLE FOR THE COST, MAINTENANCE, PROPER USE, AND SECURITY OF THE RENTAL EQUIPMENT. THE COMPANY OR INDIVIDUAL IS ALSO RESPONSIBLE FOR THE COST OF THE WATER USED.
- 1.6. CONTRACTOR MUST KEEP AVAILABLE ONSITE, AT ALL TIMES, APPROVED CONSTRUCTION PLANS AND COPIES OF ANY/ALL REQUIRED PERMITS ALONG WITH THE APPROPRIATE VERSIONS OF THE FOLLOWING APPLICABLE REFERENCES:
 - 1.6.1. TOWN OF ADDISON ENGINEERING STANDARDS & DETAILS
 - 1.6.2. NCTCOG STANDARDS & SPECIFICATIONS
 - 1.6.3. TCEQ STANDARDS & SPECIFICATIONS
 - 1.6.4. TXDOT SPECIFICATIONS & STANDARD DRAWINGS, AS APPLICABLE.
- 1.7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING AND STAKING AND SHALL NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK.
- 1.8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE ROW DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE TOWN.
- 1.9. TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY SPECIFIED BY OR APPROVED BY THE TOWN. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO

THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS. COPIES OF TESTING REPORTS SHALL BE FURNISHED TO THE TOWN IMMEDIATELY UPON RECEIPT BY THE CONTRACTOR.

- 1.10. FOR PUBLIC PROJECTS, CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS.
- 1.11. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT FREE OF DIRT, MUD, AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST.
- 1.12. THE EXISTENCE AND LOCATIONS OF THE PUBLIC AND FRANCHISE UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PUBLIC AGENCIES AND FRANCHISE UTILITIES 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR MAY BE REQUIRED EXPOSE THESE FACILITIES AT NO COST TO THE TOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.
- 1.13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR.
- 1.14. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND/OR THE TOWN, AS APPLICABLE.
- 1.15. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING FENCING. TEMPORARY FENCING SHALL BE REMOVED AFTER PROPOSED FENCING IS APPROVED BY THE TOWN. ALL TEMPORARY AND PROPOSED FENCING LOCATIONS SHALL BE SUBJECT TO FIELD REVISIONS AS DIRECTED BY THE TOWN.
- 1.16. UNUSABLE EXCAVATED MATERIAL, OR CONSTRUCTION DEBRIS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR AT HIS EXPENSE.
- 1.17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE TOWN'S RECORDS.

*** LEGEND ***

CIRF	IRON ROD WITH CAP FOUND		IRRIGATION CONTROL VALVE
IRF	IRON ROD FOUND		IRRIGATION SPRINKLER HEAD
XCF	"X" CUT FOUND		BOLLARD POST
P.R.D.C.T.	PLAT RECORDS		SIGN
	ADDISON COUNTY, TEXAS		RAILROAD SIGNAL
	CONTROL POINT		UTILITY RISER/BOX
			UTILITY MANHOLE
	PROPERTY CORNER		UTILITY PULL BOX
	MARKER FOUND - AS NOTED		UTILITY METER
	PROPERTY CORNER SET		UTILITY LINE MARKER
	POWER POLE		MONITORING WELL
	GUY WIRE		OVERHEAD ELEC.
	LIGHT POLE		U.G. ELECTRIC
	ELECTRIC METER		U.G. TELE. LINE
EMK	ELECTRIC LINE MARKER		U.G. FIBER OPTIC
E	ELECTRIC PULL BOX		U.G. CABLE TV
E	ELECTRIC MANHOLE		U.G. GAS
E	ELECTRIC BOX (PANEL)		U.G. WATER
	YARD LIGHT		U.G. SAN. SEWER
CMK	CATV MARKER		U.G. STORM SEWER
TV	CATV RISER		CHAIN LINK FENCE
TV	CATV PULL BOX		WOOD FENCE
TV	CATV MANHOLE		WIRE FENCE
IMK	TELEPHONE MARKER		WROUGHT IRON FENCE
T	TELEPHONE RISER		ASPHALT EDGE
T	TELEPHONE MANHOLE		CONCRETE AREA
T	TELEPHONE PULL BOX		GRAVEL AREA
FMK	FIBER OPTIC MARKER		CI
F	FIBER OPTIC PULL BOX		GI
AC	AC COMPRESSOR UNIT		DP
M	MAILBOX		GP
GMK	GAS MARKER		OWS
G	GAS MANHOLE		NPS
G	GAS METER		NTS
G	GAS VALVE		SLS
G	GAS TEST STATION		STS
	TREE (AS DESCRIBED)		R/W
			RTS
	BUSH (GENERAL)		TOS
			TES
	CM (CREPE MYRTLE)		X 555.55
			EC 555.55
W	WATER MANHOLE		GT 555.55
WM	WATER METER		TC 555.55
WV	WATER VALVE		TW 555.55
WF	WATER FAUCET		SUBJECT PROPERTY LINE
GH	GAS HYDRANT		EXISTING EASEMENT LINE
S	SAN. SEWER MANHOLE		BUILDING SETBACK LINE
SS	SAN. SEWER CLEANOUT		FIRELINE PAINT MARKS
D	STORM DRAIN MANHOLE		INVERT REFERENCE
IR	INLET RIM		PHOTO LOCATION REFERENCE
TL	TRAFFIC SIGNAL LIGHT		CANOPY - COVERED AREA
TR	TRAFFIC SIGNAL BOX		

SURVEY CONTROL
CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL
NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.999863513.

FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

PUBLIC WORKS & ENGINEERING SERVICES	972-450-2871
TEXAS ONE CALL/DIG TESS	1-811-344-8377
ONCOR	1-888-313-6862
AT&T	1-800-331-0500
SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
ATMOS ENERGY	1-888-286-6700
PATRICK MCKENZIE ATMOS EMERGENCY CONTACT	972-360-4428

REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C

GENERAL NOTES & LEGEND
(1 OF 2)



DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: NTS
FILE: 02-GENERAL NOTES.dwg	SHEET NO: 02

G:\1220\5324-01 Addison Lake Forest Drive\DWG\General\Borders\border.dwg
PLOTTED: Jan 23, 2023 - 9:24am
Rodney Prince

2. GENERAL NOTES FOR PAVING SYSTEMS

2.1. ALL PAVING CONSTRUCTION, TESTING, AND MATERIALS, INCLUDING CONCRETE, REINFORCEMENT, JOINTING, AND SUBGRADE PREPARATION AND TREATMENT SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTES.

2.2. NO EARTHWORK, LIME APPLICATION, OR OTHER PREPARATION OF THE SUBGRADE FOR PAVING OF STREETS, ALLEYS, OR FIRE LANES SHALL BE INITIATED WITHOUT AUTHORIZATION FROM THE TOWN. THE TOWN WILL AUTHORIZE THE SUBGRADE ENGINEERING STANDARDS WORK IN PREPARATION FOR PAVING AFTER UTILITY TRENCH BACKFILL TESTING HAS BEEN COMPLETED AND VERIFIED TO MEET THE TOWN REQUIREMENTS.

2.3. SUBGRADE

2.3.1. SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.

2.3.2. SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED HTH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT.

2.3.3. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT".

2.3.4. FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.

2.4. REINFORCING STEEL

2.4.1. BAR LAPS SHALL BE THIRTY DIAMETERS.

2.4.2. REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS PAVEMENT THICKNESS, #4 FOR 10" OR MORE PAVEMENT THICKNESS.

2.4.3. REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.

2.4.4. NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.

2.5. CONCRETE PAVEMENT:

2.5.1. ALL CONCRETE STRENGTH AND MIX DESIGN SHALL BE AS SHOWN IN LATEST EDITION OF NCTCOG SECTION 303.3

2.5.2. CLASS P1 PAVEMENT : MACHINE FINISHED: A SLIP-FORM PAVING MACHINE SHALL BE USED FOR ALL PUBLIC STREETS AND ALLEYS UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS & ENGINEERING SERVICES. MIN. 4000 PSI 28- DAY COMPRESSIVE STRENGTH.

2.5.3. CLASS P2 PAVEMENT : HAND FINISHED: HAND FINISHED PAVEMENT IS PERMITTED FOR TURN LANES, DECELERATION LANES, DRIVEWAY APPROACHES, OR PANEL REPLACEMENT OF PUBLIC STREETS OR ALLEYS. MIN. 4500 PSI 28-DAY COMPRESSIVE STRENGTH

2.5.4. MINIMUM PAVEMENT THICKNESS SHALL BE AS FOLLOWS:

2.5.4.1. MAJOR ARTERIAL - 10" CLASS "P1" OR "P2"

2.5.4.2. MINOR ARTERIAL - 8" CLASS "P1" OR "P2"

2.5.4.3. COMMERCIAL/ INDUSTRIAL COLLECTOR - 8" CLASS "P1" OR "P2"

2.5.4.4. RESIDENTIAL COLLECTOR - 8" CLASS "P1" OR "P2"

2.5.4.5. RESIDENTIAL LOCAL - 8" CLASS "P1" OR "P2"

2.5.4.6. SIDEWALK AND BFR'S - 4" - CLASS "A"

2.5.4.7. DRIVE APPROACH 8" - CLASS "P2"

2.5.4.8. ALLEY - 6" CLASS "P1" OR "P2"

2.5.5. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECTS. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.

2.5.6. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO TOWN OF ADDISON STANDARD CONSTRUCTION DETAILS.

2.5.7. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL PEDESTRIAN WORK MEETS OR EXCEEDS THE CURRENT AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), THE TEXAS ACCESSIBILITY STANDARDS (TAS), AND PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONSTRUCTED OR INSTALLED ITEMS NOT MEETING THE CURRENT ADAAG, TAS, & PROWAG REQUIREMENTS AT NO ADDITIONAL COST TO THE TOWN.

2.5.8. ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH GROUND COVER. TYPE OF GROUNDCOVER SHALL BE DETERMINED BY THE PARKS & RECREATION DEPARTMENT, OR SHALL BE RESTORED TO MATCH EXISTING PLANT MATERIALS IN EQUAL OR BETTER CONDITION. ALL TURF AREAS SHALL BE SOLID SOD, AND GROUNDCOVER SHALL BE MINIMUM ONE (1) GALLON PLANT MATERIAL.

3. GENERAL NOTES FOR WATER AND WASTEWATER SYSTEMS

3.1. ALL WATER AND WASTEWATER CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MORE RESTRICTIVE OF THE CURRENT TCEQ REGULATIONS OR THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.

3.2. TRENCH SAFETY

3.2.1. PRIVATE DEVELOPMENT: CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRE- CONSTRUCTION MEETING.

3.2.2. PUBLIC PROJECTS : CONTRACTOR AND/OR DESIGN ENGINEER SHALL SUBMIT A TRENCH SAFETY PLAN AS PART OF THE CIVIL CONSTRUCTION DOCUMENTS PACKAGE.

3.3. CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES THAT ARE PART OF THE ACTIVE TOWN OF ADDISON WATER SYSTEM. CONTACT THE TOWN'S PUBLIC WORKS & ENGINEERING SERVICES TO REQUEST VALVE CHANGES.

3.4. ANY EXISTING FIRE HYDRANT THAT IS TO BE MODIFIED AND HAS A DATE THAT EXCEEDS 8 YEARS IN AGE SHALL BE REPLACED AND THE OLD FIRE HYDRANT RETURNED TO THE PUBLIC WORKS & ENGINEERING SERVICES BY THE CONTRACTOR AT HIS EXPENSE.

3.5. ANY EXISTING MANHOLE WITH AN OPENING SMALLER THAN 30" DIAMETER THAT IS MODIFIED SHALL HAVE THE CONE SECTION, RING, AND COVER REPLACED WITH A MINIMUM OF 30" DIAMETER CONE SECTION, RING, AND COVER BY THE CONTRACTOR AT HIS EXPENSE.

4. GENERAL NOTES FOR EROSION CONTROL

4.1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS & CONDITIONS OF THE TCEQ TPDES GENERAL PERMIT NO. 150000.

4.1.1. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON THE SITE AT ALL TIMES BY EACH OPERATOR. A COPY OF THE NOI MUST BE PROVIDED TO THE PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO START OF CONSTRUCTION.

4.1.2. ALL RELEASES OF REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA, AND TCEQ.

4.1.3. IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.

4.2. EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO ANY SOIL DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE TOWN.

4.2.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY , THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, AND STORM DRAINAGE SYSTEMS FROM EROSION DEPOSITS.

4.2.1.1. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE WEEKLY, AND WITHIN 24 HRS (BEFORE AND AFTER) A STORM EVEN OF 0.5 INCHES OR GREATER.

4.2.1.2. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES (3") OF 25% OF THE HEIGHT OF THE DEVICE (WHICHEVER IS LESS). THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER SO AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.

4.2.2. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.

4.2.3. MODIFICATIONS TO THE SWPPP SHALL BE IMPLEMENTED AND IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD. ANY MAJOR MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER AND PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO IMPLEMENTATION.

4.3. CONSTRUCTION ENTRANCES AND WASHOUTS

4.3.1. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE.

4.3.2. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.

4.3.3. NO EQUIPMENT SHALL BE CLEANED ON-SITE, OR OTHER LIQUIDS DEPOSITED AND ALLOWED TO FLOW OVERLAND OR SUBTERRANEAN WITHIN THE LIMITS OF

THE CRITICAL ROOT ZONE OF TREES THAT REMAIN ON SITE. THIS INCLUDES PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, CONCRETE EQUIPMENT WASH WATER, MORTAR OF SIMILAR MATERIALS.

4.4. WASTE DISPOSAL

4.4.1. CONTRACTOR SHALL PROVIDE WASTE DISPOSAL CONTAINERS ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO THE APPROPRIATE DISPOSAL LOCATION BY THE CONTRACTOR.

4.4.2. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

4.5. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING, AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUNDCOVER IN ALL STREET PARKWAYS, LOTS, AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY THE MORE RESTRICTIVE OF CURRENT NCTCOG OR TOWN STANDARDS.

4.6. SILT FENCE NOTES.

4.6.1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18". STEEL POSTS SHALL NOT BE USED TO INSTALL EROSION CONTROL MEASURES WITHIN TOWN ROW.

4.6.2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

4.6.2.1. THE TRENCH MUST BE A MINIMUM OF SIX INCHES (6") DEEP AND SIX INCHES (6") WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4.6.2.2. WHERE THE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.

4.6.3. WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST. THERE SHALL BE A SIX INCH (6") DOUBLE OVERLAP, SECURELY FASTENED, WHERE ENDS OF FABRIC MEET.

4.6.4. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

5. GENERAL NOTES FOR TRAFFIC CONTROL

5.1. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TXDOT BARRICADE AND CONSTRUCTION STANDARDS.

6. CONTRACTOR SHALL NOT IMPEDE TRAFFIC ON EXISTING STREETS, DRIVEWAYS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE PUBLIC WORKS & ENGINEERING SERVICES A MINIMUM OF 72 HOURS IN ADVANCE OF THE REQUESTED CLOSURE. CLOSURES WILL NOT BE ALLOWED PRIOR TO 9:00 A.M. OR AFTER 3:30 P.M., MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE TOWN.

SURVEY CONTROL
 CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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PUBLIC WORKS & ENGINEERING SERVICES	972-450-2871
TEXAS ONE CALL/DIG TESS	1-811-344-8377
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AT&T	1-800-331-0500
SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
ATMOS ENERGY	1-888-286-6700
PATRICK MCKENZIE ATMOS EMERGENCY CONTACT	972-360-4428

REV. NO.	DESCRIPTION	CHK. BY	DATE



**ADDISON, TEXAS
 PUBLIC WORKS &
 ENGINEERING SERVICES**
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER
 IMPROVEMENTS
 PROJECT NO. 2021-04-C

**GENERAL NOTES & LEGEND
 (2 OF 2)**



DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: NTS
FILE: 02-GENERAL NOTES.dwg	SHEET NO: 03

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 PLOTTED: Jan 23, 2023 - 9:24am
 Rodney Prince

Town of Addison
Lake Forest Drive Water Line Upgrades and Wastewater Improvements
 Bid Number 23-23
 Pay Items and Bid Quantities

	Pay Item	Item Description	Unit	Bid Total
G E N E R A L	1	Mobilization (5% Max)	LS	1
	2	Bonds and Insurance	LS	1
	3	Barracades, Signs, and Traffic Handling	LS	1
	4	Project Signs	EA	1
	5	Erosion Control Silt Fence	LF	250
	6	Erosion Control Inlet Protection	EA	1
	7	Stabilized Construction Entrance	EA	1
	8	Sod	SY	390
	9	Topsoil (6 Inch Deep)	SY	390
	10	Exploratory Vacuum Excavation of Existing Utilities	EA	5
	11	Curb and Gutter Replacement and Repair, As Directed	LF	70
	12	Contingency Owner Allowance	AL	1
W A S T E W A T E R	13	Trench Excavation Protection (Wastewater Improvements)	LS	1
	14	8" HDPE (DR-17) WW Line by Pipe Bursting	LF	1020
	15	Spin Cast Structural Epoxy Coating Existing 8" WW Line	LF	313
	16	Remove and Reconnect Service Lines w/ Cleanout at Property Line	EA	17
	17	Remove Standard 4 Foot Diameter WWMH	EA	3
	18	Remove WW Cleanout	EA	1
	19	4' Standard Manhole	EA	5
	20	Extra Depth For WWMH	VF	25
	21	Preconstruction CCTV Inspection	LF	1332
	22	Postconstruction CCTV Inspection	LF	1332
	23	Temporary Wastewater Line Bypass Pumping	LS	1
W A T E R	24	Trench Excavation Protection (Water System)	LS	1
	25	8" PVC (DR 18) Water Line	LF	1216
	26	8" PVC (DR 18) Carrier Pipe Water Line	LF	71
	27	12" Steel Encasement Pipe by Bore and Jack	LF	71
	28	8" Gate Valve	EA	7
	29	Remove and Salvage Fire Hydrant Assembly	EA	2
	30	Fire Hydrant Assembly	EA	3
	31	Connect to Existing Water Main	EA	2
	32	Abandon Existing 6" Water Line Pipe in Place	EA	6
	33	Remove Existing 6" Water Line	LF	525
	34	Remove, Replace, and Reconnect Water Service Lines	EA	32
	35	High Early Stength (HES) Concrete, As Directed	CY	5
	36	Temporary Water Line Bypass Piping System	LS	1

SURVEY CONTROL
 CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL
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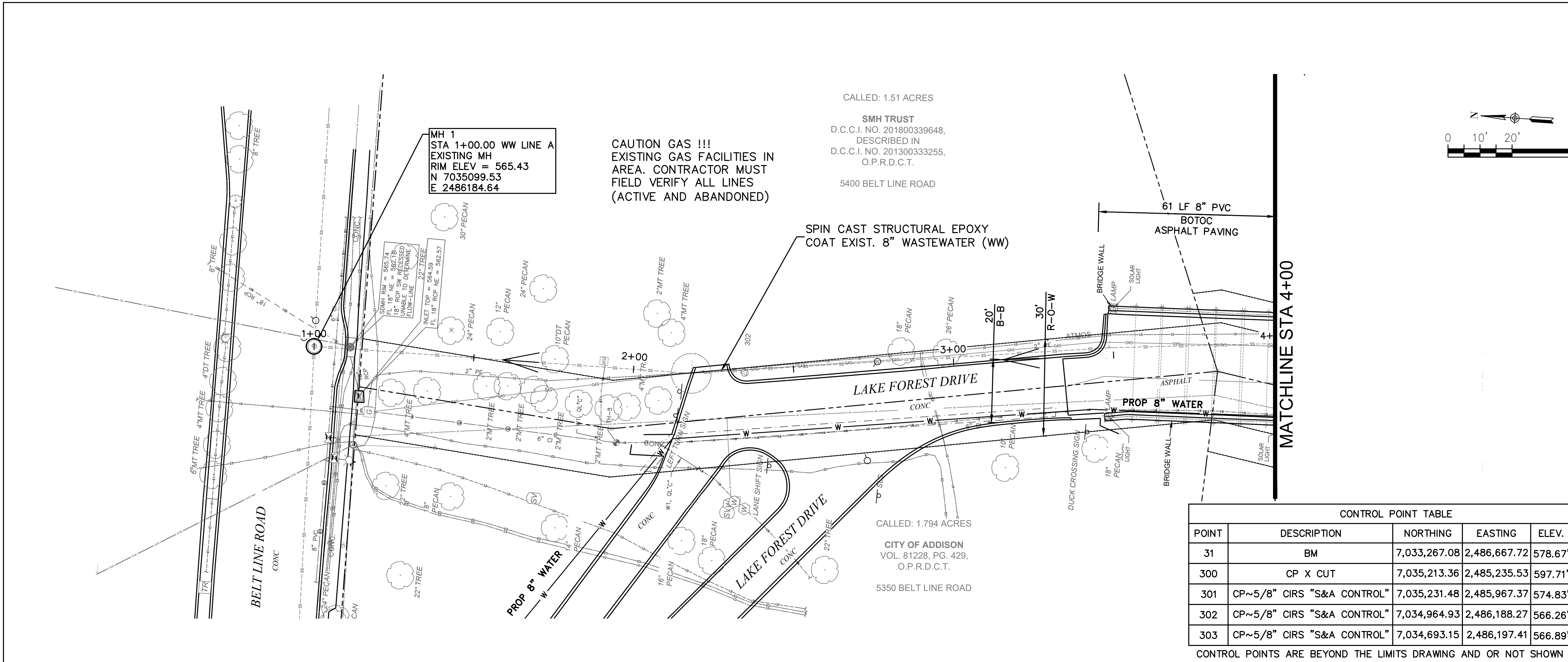
BID QUANTITIES



DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: NTS

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 PLOTTED: Jan 23, 2023 - 9:24am
 Rodney Prince

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NOTE:
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SURVEY CONTROL
CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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REV. NO. DESCRIPTION CHK. BY DATE

1/23/2023

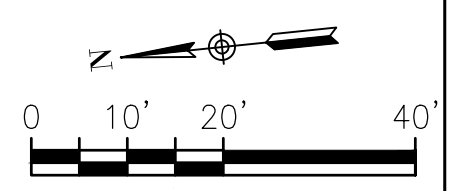
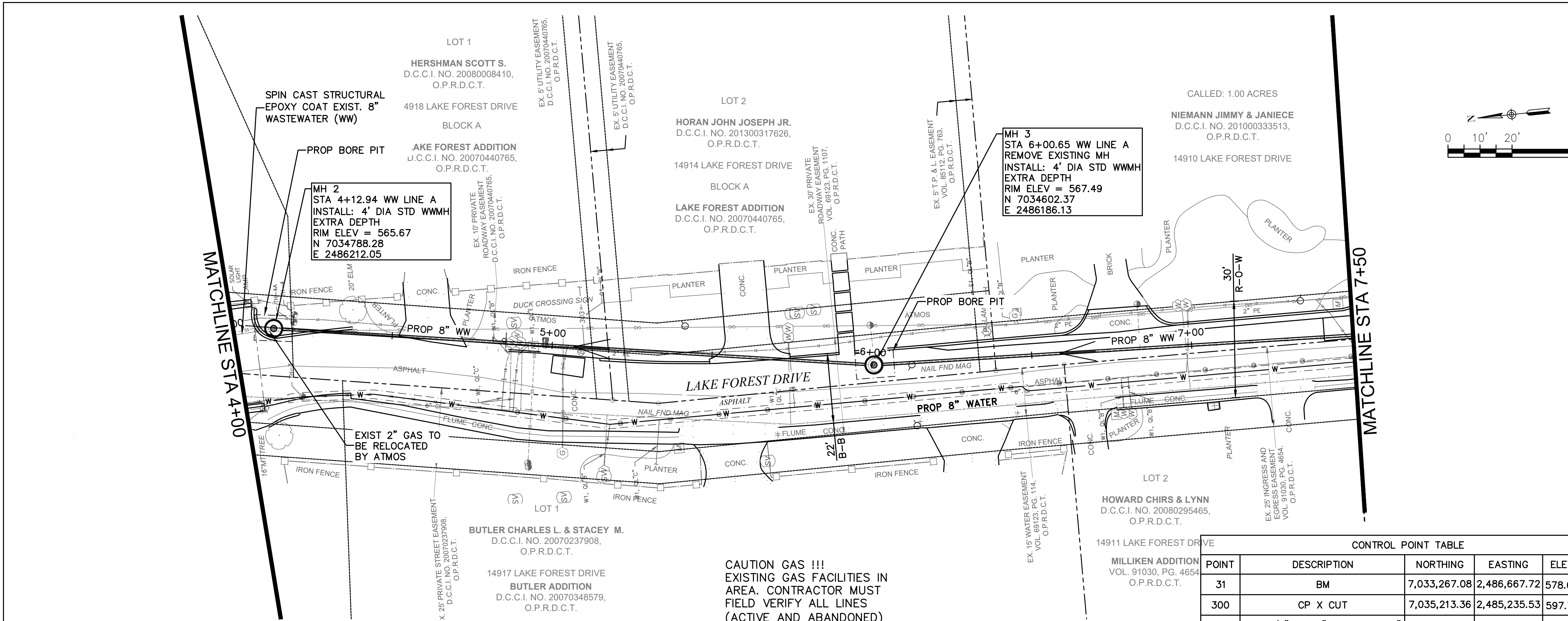
ADDISON, TEXAS
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PROJECT NO. 2021-04-C

WW PLAN & PROFILE
STA 1+00-4+00

DEC | ENGINEERING EXCELLENCE
 T.B.P.E. FIRM REGISTRATION #8996
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: DR DATE: 1/23/2023
 DRAWN BY: REP PROJECT NO: 532401
 CHECKED BY: DEG DRAWING SCALE: 1"=20'H; 1"=5'V
 FILE: SSWR_PnP_1.dwg SHEET NO: 05

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 PLOTTED: Jan 23, 2023 9:24am
 Rodney Prince



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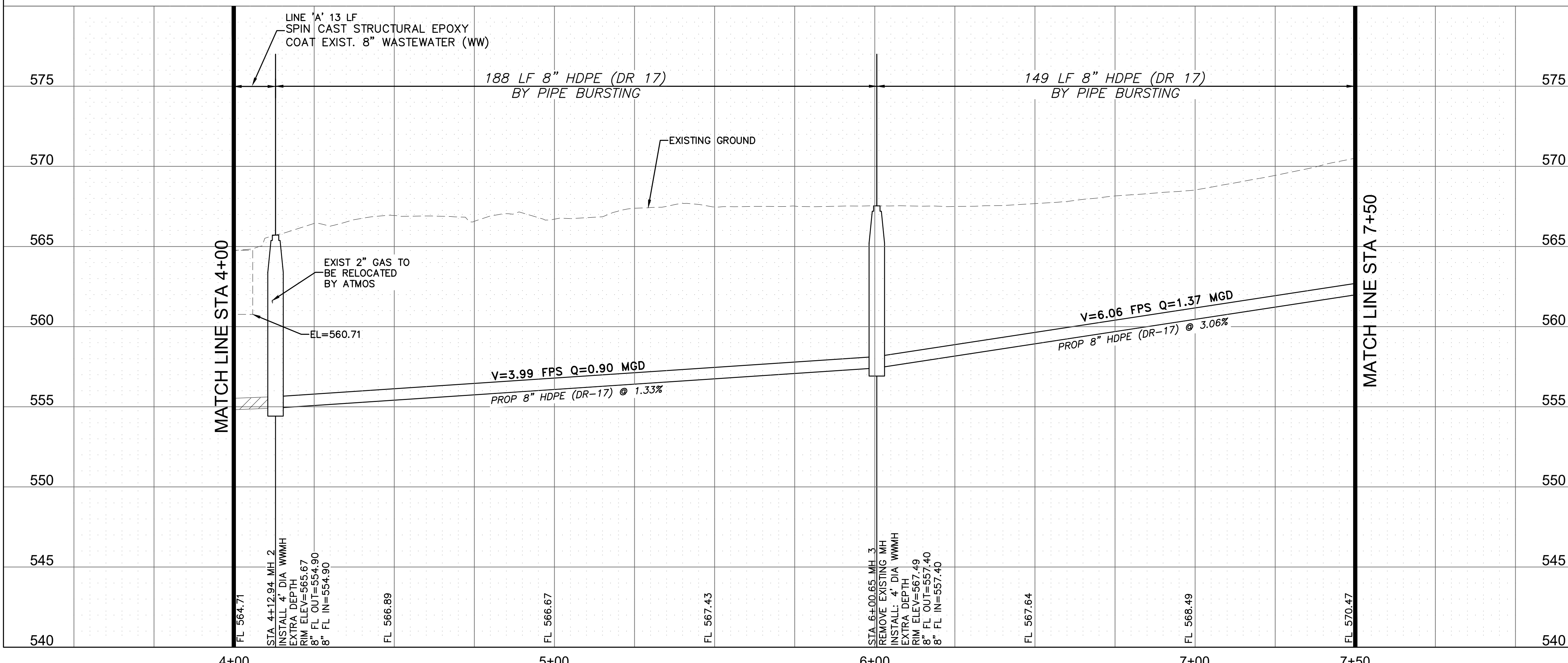
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CONTROL POINT TABLE				
POINT	DESCRIPTION	NORTHING	EASTING	ELEV.
31	BM	7,033,267.08	2,486,667.72	578.67'
300	CP X CUT	7,035,213.36	2,485,235.53	597.71'
301	CP~5/8" CIRS "S&A CONTROL"	7,035,231.48	2,485,967.37	574.83'
302	CP~5/8" CIRS "S&A CONTROL"	7,034,964.93	2,486,188.27	566.26'
303	CP~5/8" CIRS "S&A CONTROL"	7,034,693.15	2,486,197.41	566.89'

CONTROL POINTS ARE BEYOND THE LIMITS DRAWING AND OR NOT SHOWN



REV. NO.	DESCRIPTION	CHK. BY	DATE



**ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES**
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C

WW PLAN & PROFILE
STA 4+00-7+50

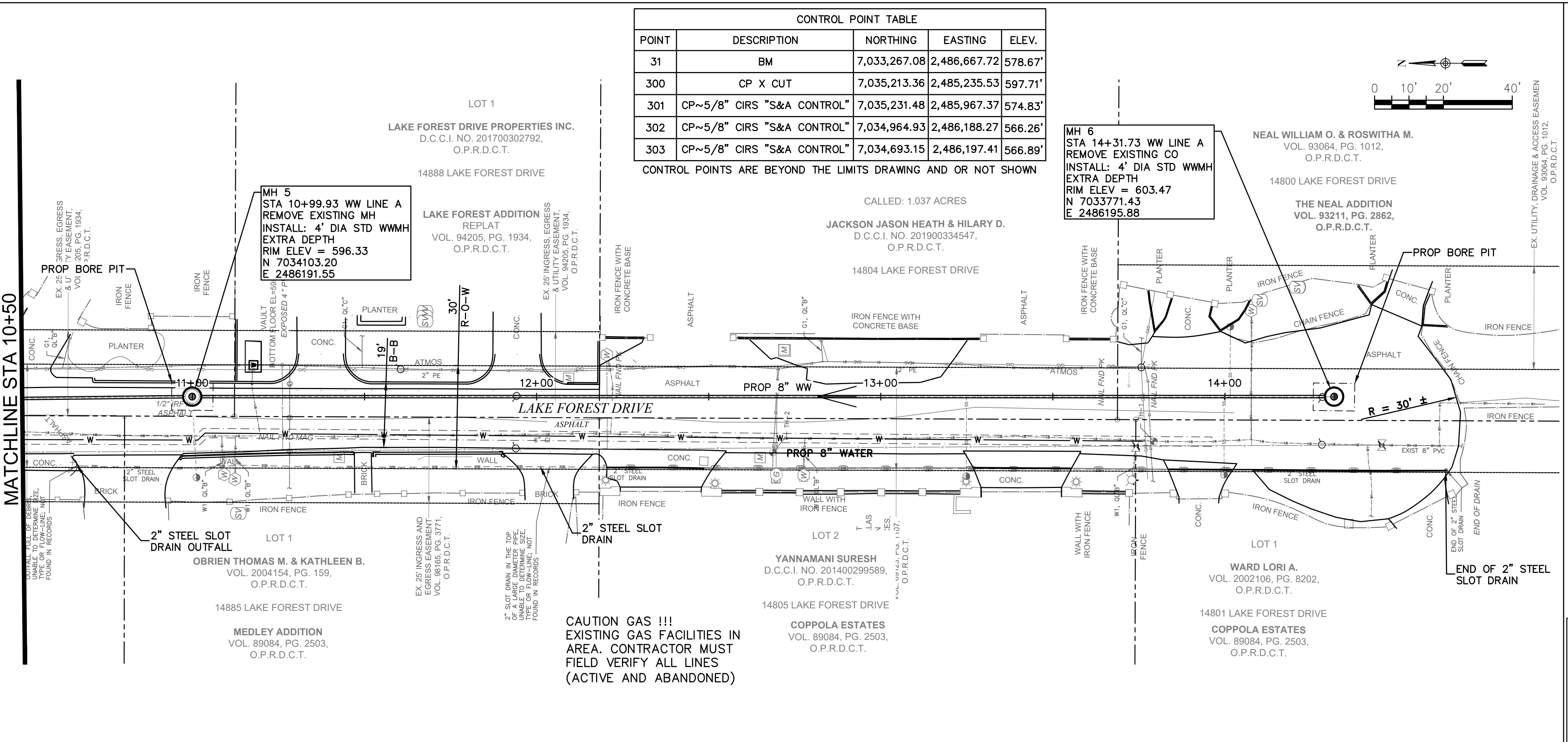
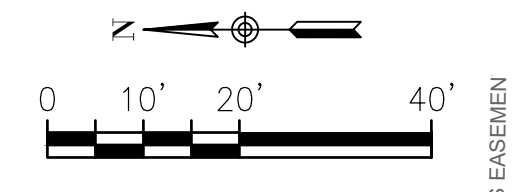


DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V
FILE: SSWR_PnP_1.dwg	SHEET NO: 06

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CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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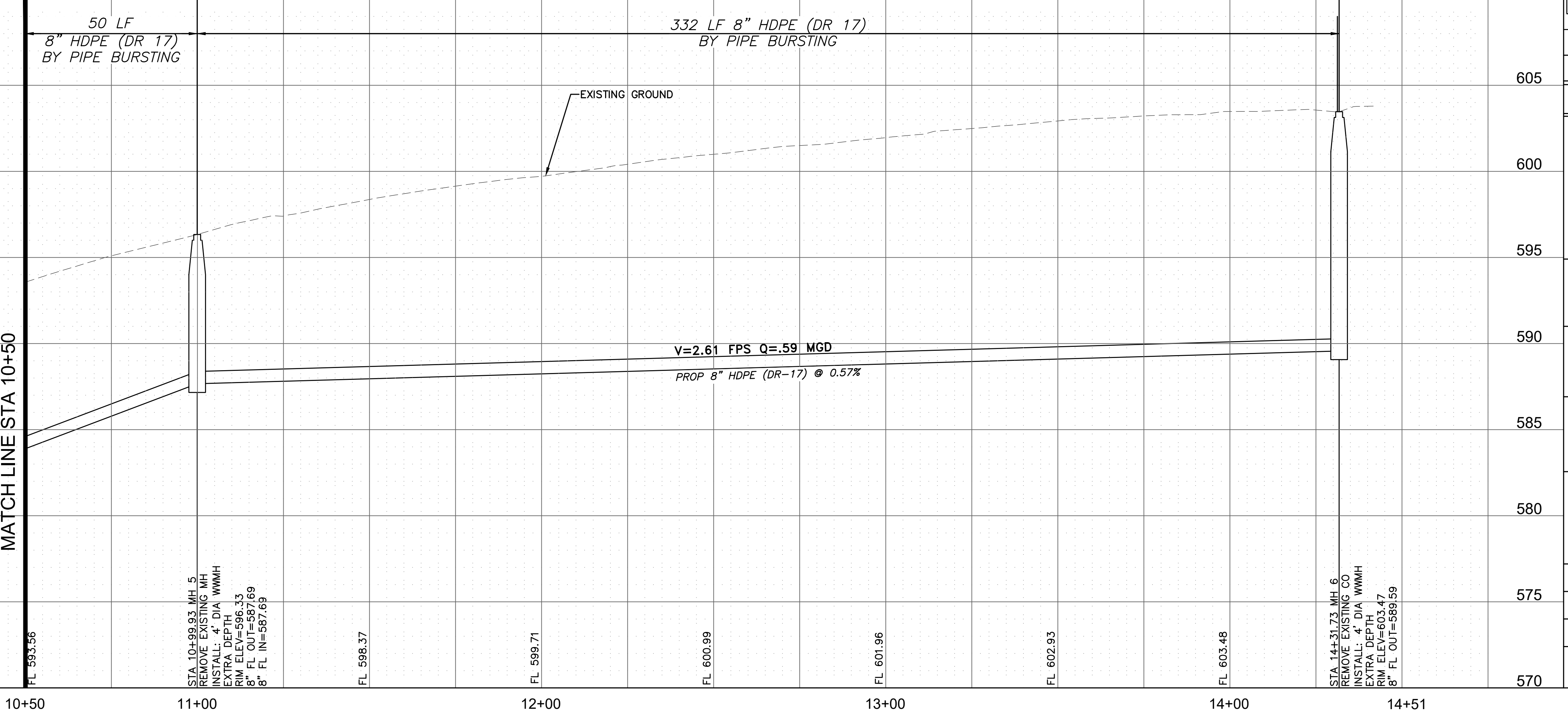
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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PUBLIC WORKS & ENGINEERING SERVICES	972-450-2871
TEXAS ONE CALL/DIG TESS	1-811-344-8377
ONCOR	1-888-313-6862
AT&T	1-800-331-0500
SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
ATMOS ENERGY	1-888-286-6700
PATRICK MCKENZIE ATMOS EMERGENCY CONTACT	972-360-4428

CAUTION GAS !!!
EXISTING GAS FACILITIES IN AREA. CONTRACTOR MUST FIELD VERIFY ALL LINES (ACTIVE AND ABANDONED)



REV. NO.	DESCRIPTION	CHK. BY	DATE

1/23/2023

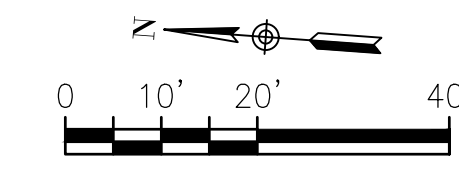
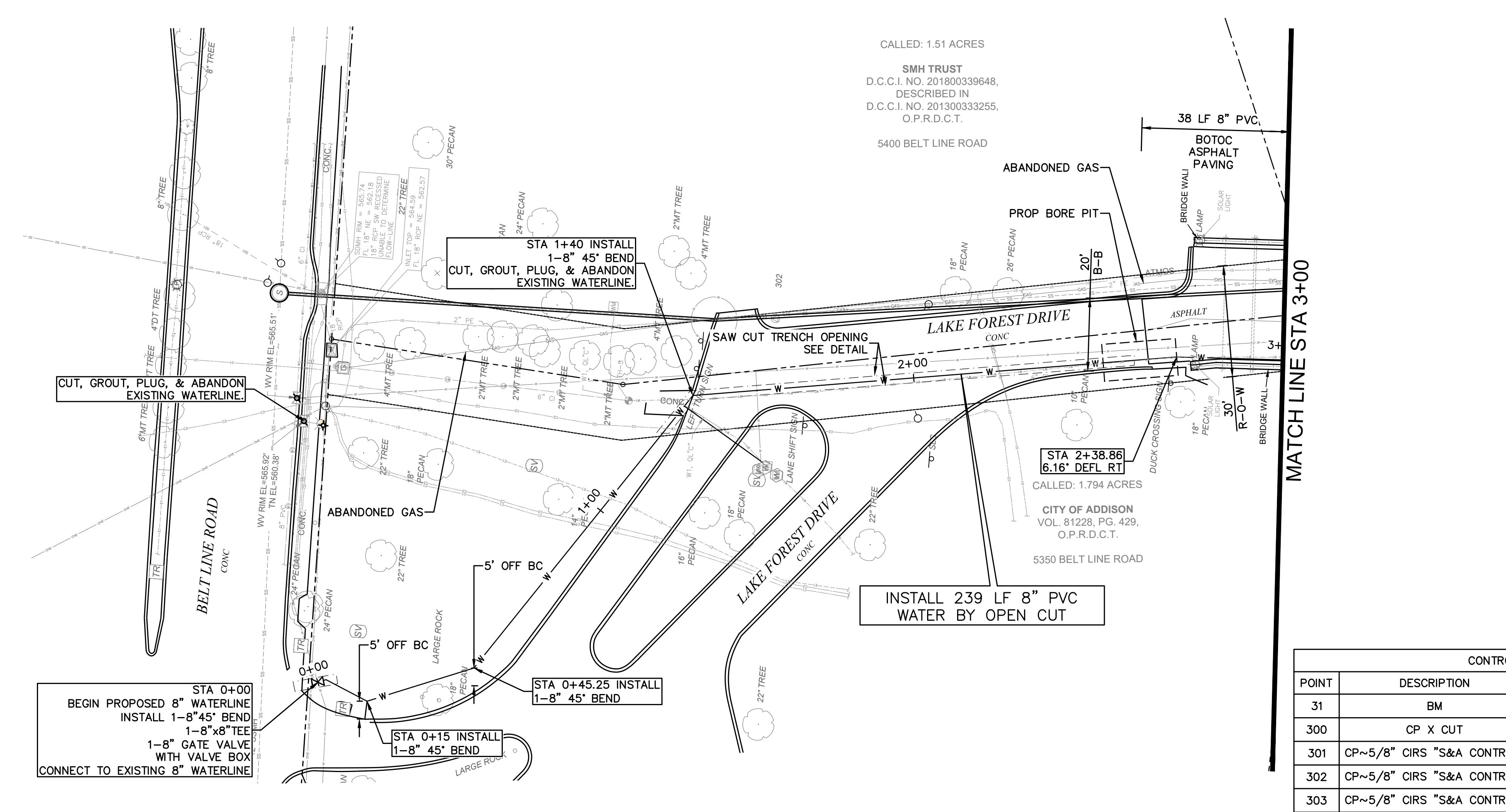
**ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES**
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C

DEC ENGINEERING EXCELLENCE
T.B.P.E. FIRM REGISTRATION #8996
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2022

DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V

FILE: SSWR_PnP_1.dwg

SHEET NO: 08



CAUTION GAS !!!
EXISTING GAS FACILITIES IN
AREA. CONTRACTOR MUST
FIELD VERIFY ALL LINES
(ACTIVE AND ABANDONED)

NOTE:
FOR PAVING AND SOD REPAIR AND REPLACEMENT SEE SHEETS
19 AND 20.

SURVEY CONTROL
CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL
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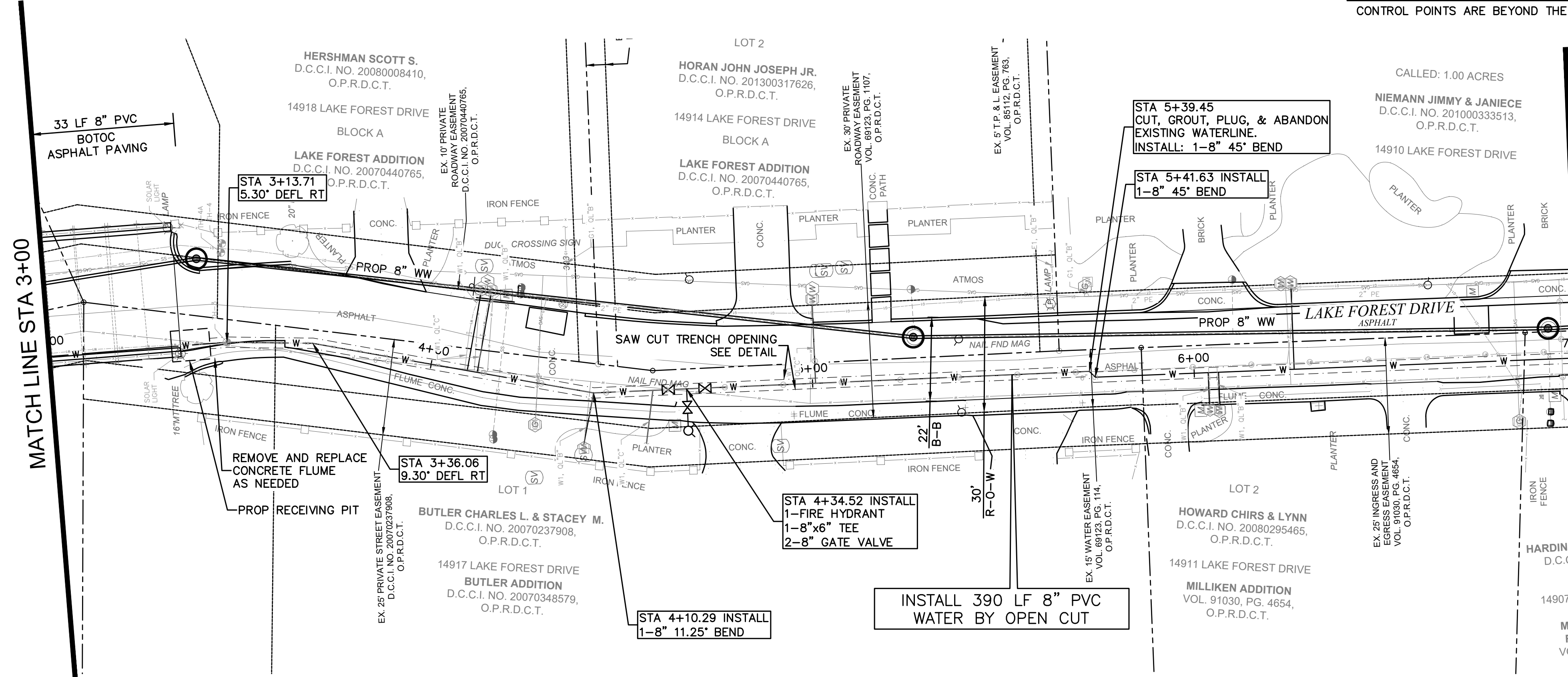
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ATMOS ENERGY 1-888-286-6700
PATRICK MCKENZIE ATMOS EMERGENCY CONTACT 972-360-4428

CONTROL POINT TABLE				
POINT	DESCRIPTION	NORTHING	EASTING	ELEV.
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CONTROL POINTS ARE BEYOND THE LIMITS DRAWING AND OR NOT SHOWN



REV. NO.	DESCRIPTION	CHK. BY	DATE

STATE OF TEXAS
DAVID RANKIN
98312
LICENSED PROFESSIONAL ENGINEER
1/23/2023

**ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES**
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C
WATER PLAN
STA 0+00-7+00

**DEC | ENGINEERING
EXCELLENCE**
T.B.P.E. FIRM REGISTRATION #8996
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: DR DATE: 1/23/2023

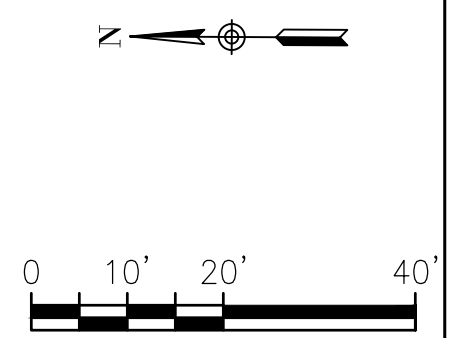
DRAWN BY: REP PROJECT NO: 532401

CHECKED BY: DEG DRAWING SCALE: 1"=20'

FILE: WATER PLAN STA 0+00-7+00.dwg SHEET NO: 09

G:\1220\5324-01 Addison Lake Forest Drive\DWG\Water\...
PLOTTED: Jan 23, 2023 9:25am
Rodney Prince

CAUTION GAS !!!
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REV. NO.	DESCRIPTION	CHK. BY	DATE



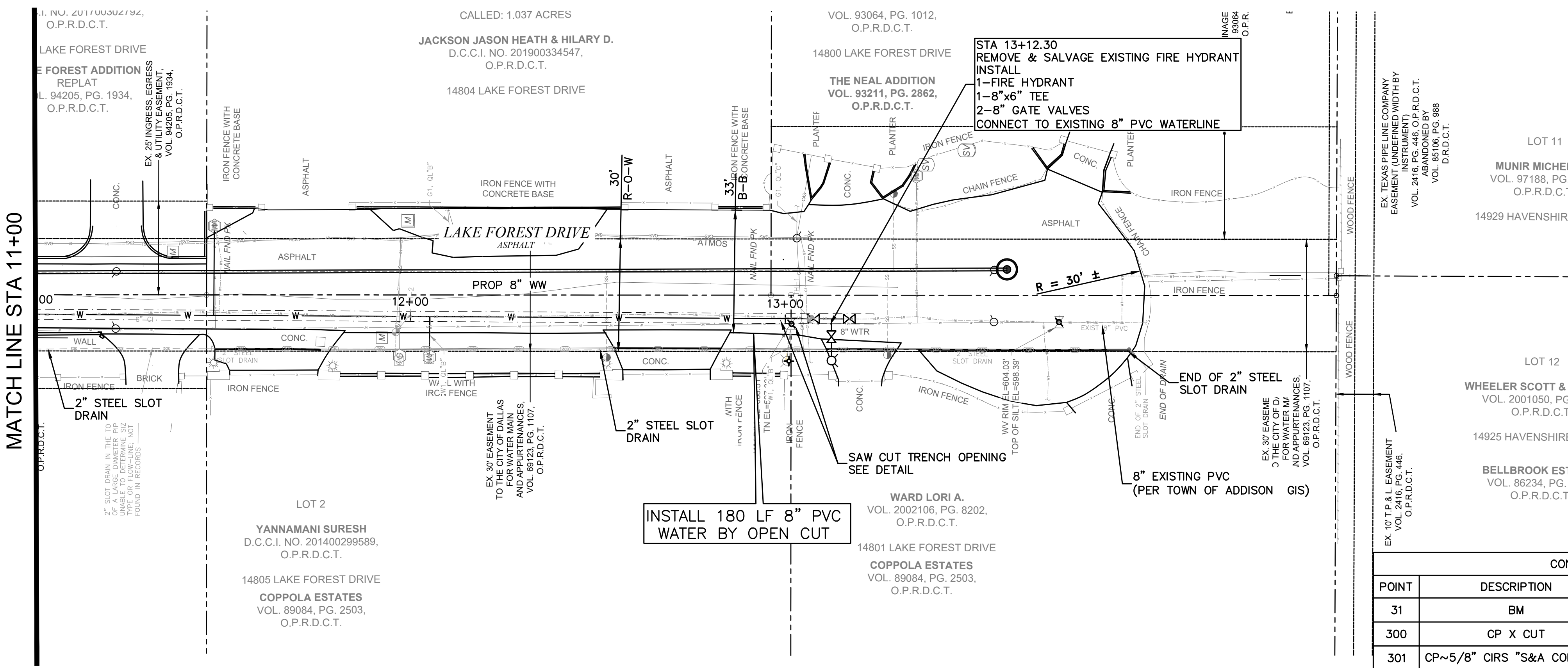
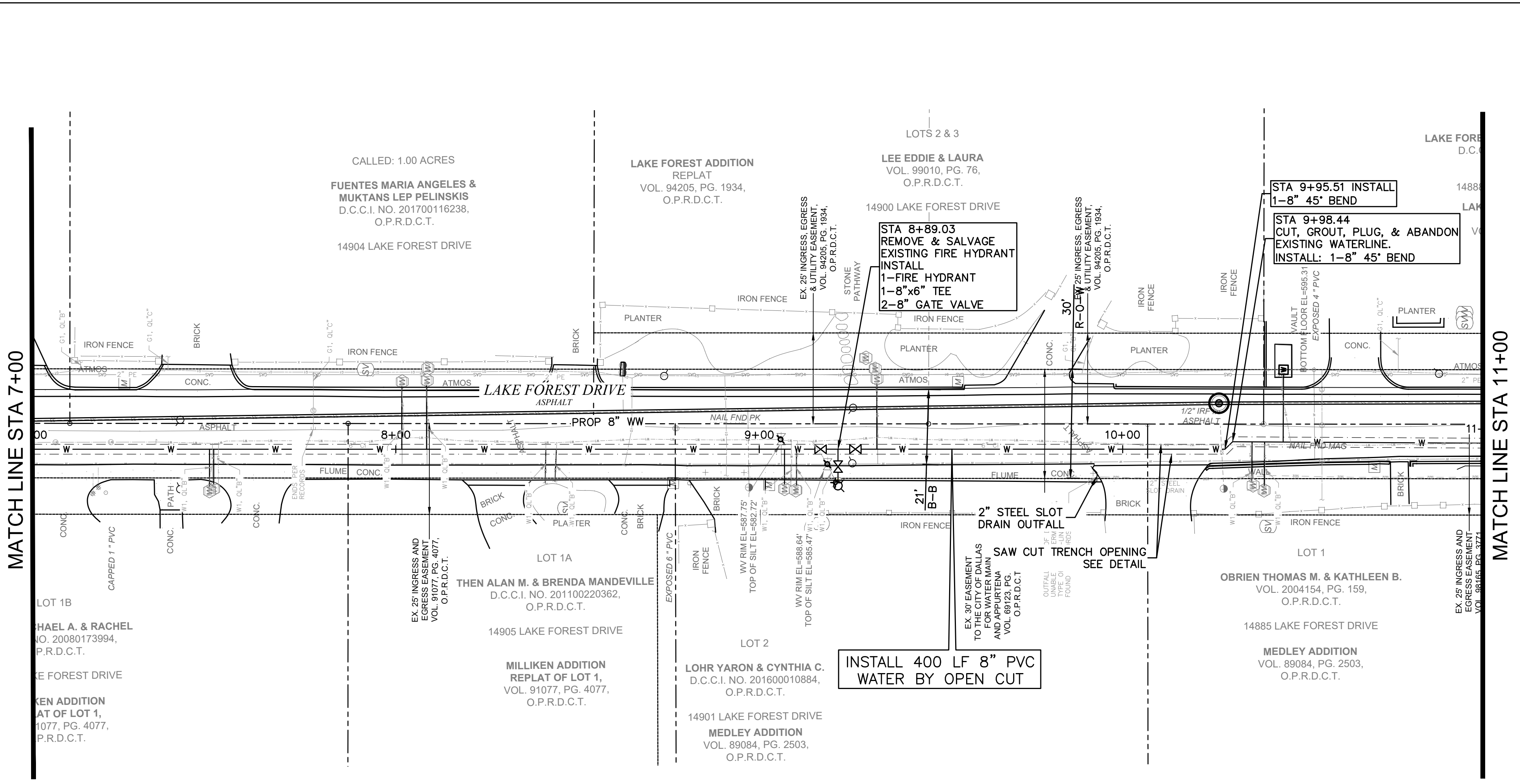
**ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES**
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C

WATER PLAN
STA 7+00-13+12.30



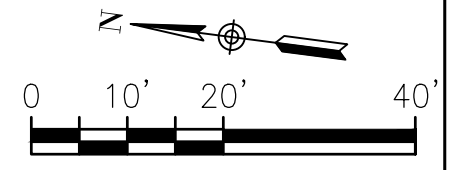
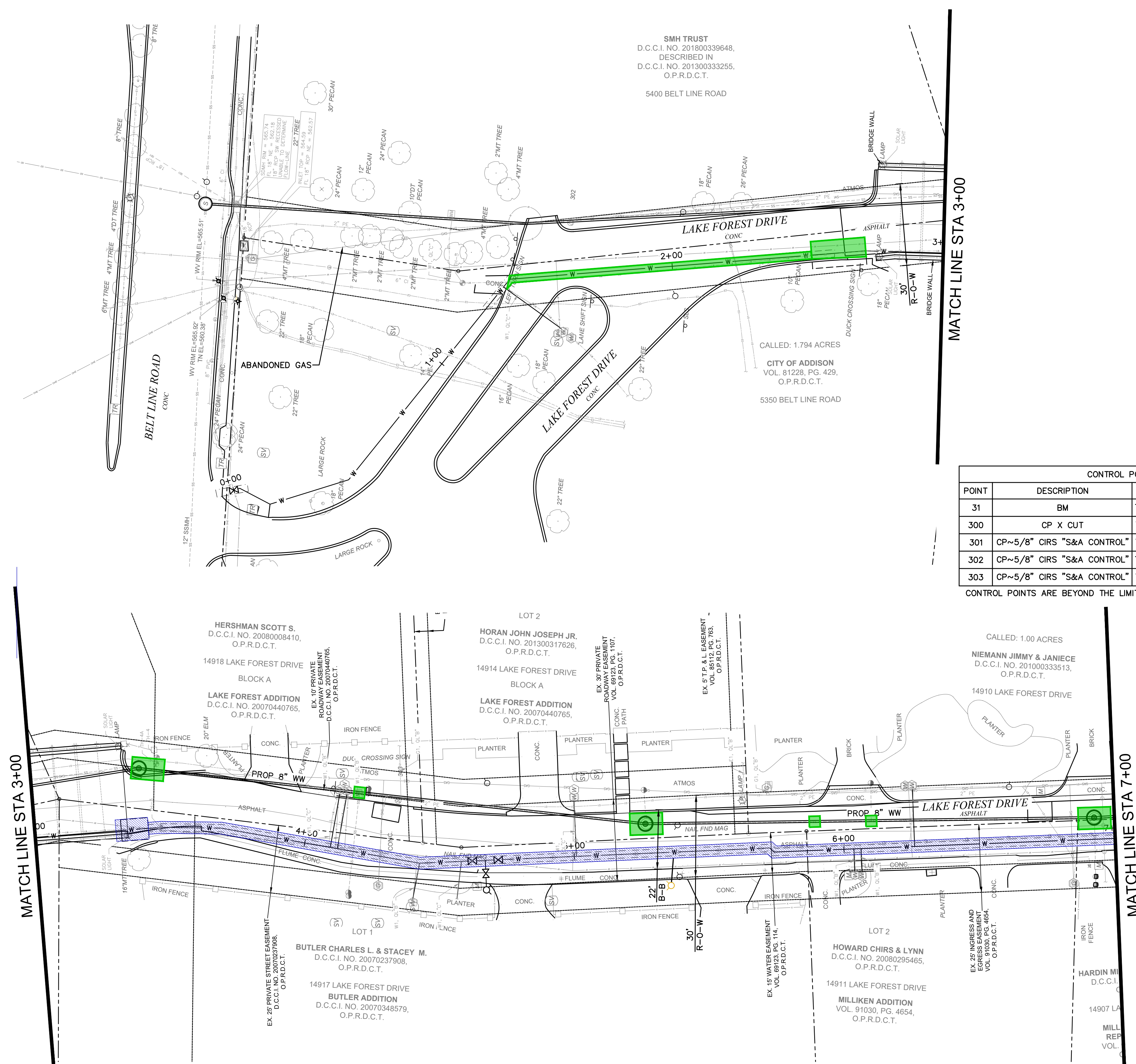
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G:\1220\5324-01 Addison Lake Forest Drive\DWG\Water\...
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 PLOTTED: Jan 23, 2023 9:25am
 Rodney Prince

G:\1220\5324-01 Addison Lake Forest Drive\DWG\Road\5324-01_Paving Repair Plan\5324-01_Paving Repair Plan.dwg
 PLOTTED: Jan 23, 2023 9:25am
 Rodney Prince



LEGEND

	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED PAVEMENT WATER LINE
	PROPOSED PAVEMENT WASTEWATER
	PROPOSED WATER
	EXISTING WATER
	EXISTING/PROPOSED WASTEWATER

CAUTION GAS !!!
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SURVEY CONTROL
 CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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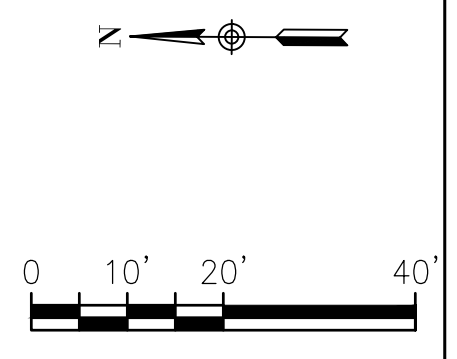
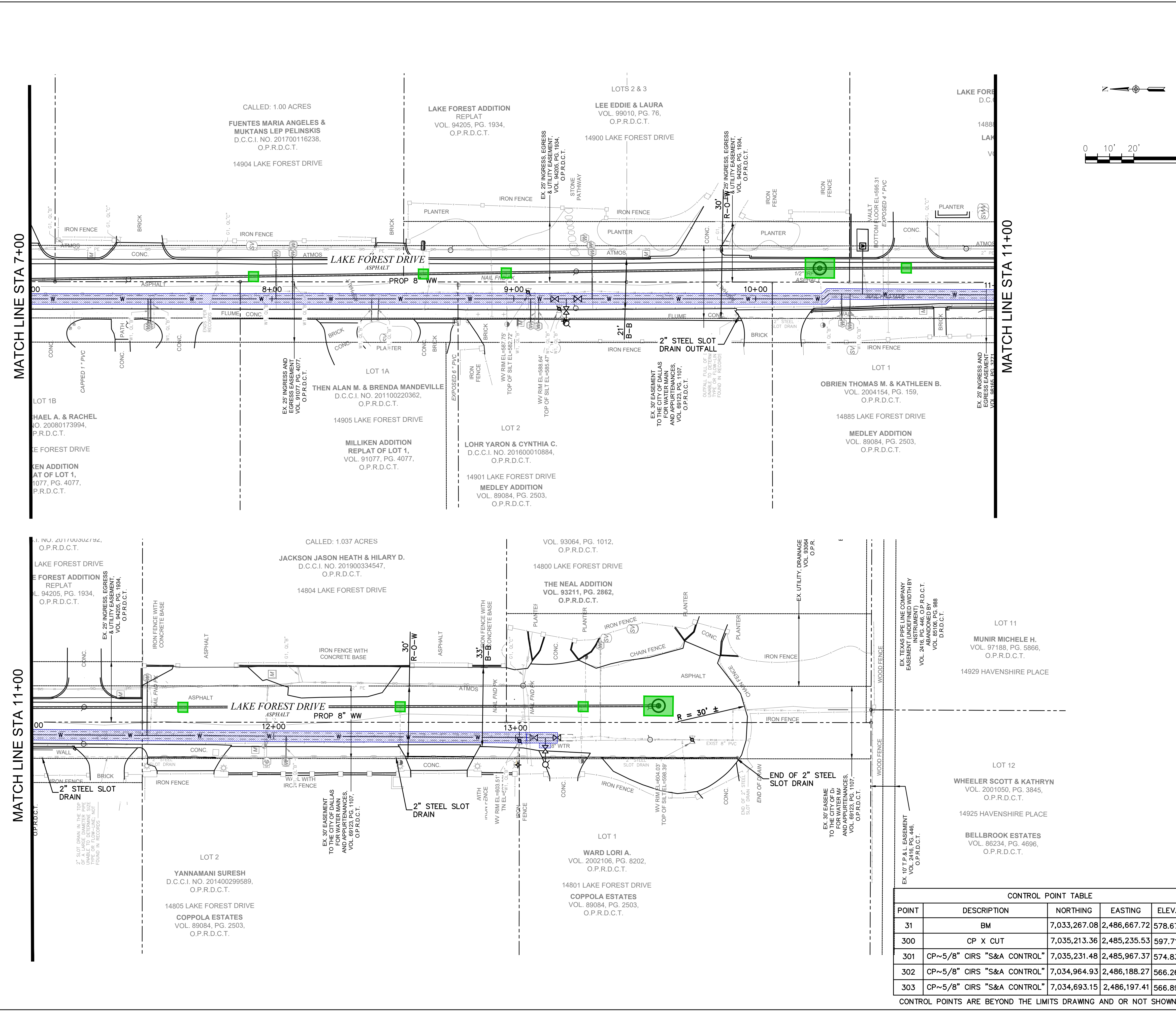
**ADDISON, TEXAS
 PUBLIC WORKS &
 ENGINEERING SERVICES**

LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER
 IMPROVEMENTS
 PROJECT NO. 2021-04-C

PAVING REPAIR PLAN
 (1 OF 2)

DEC ENGINEERING EXCELLENCE	T.B.P.E. FIRM REGISTRATION #8996 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002
DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: 1"=20'
FILE: PAVING REPAIR PLAN STA 0+00-7+00.dwg	SHEET NO: 11

G:\1220\5324-01 Addison Lake Forest Drive\DWG\Road\...
 PLOTTED: Jan 23, 2023 9:25am
 Rodney Prince



LEGEND

- PROPERTY LINE
- - - EXISTING EASEMENT
- [Blue Hatched Box] PROPOSED PAVEMENT WATER LINE
- [Green Box] PROPOSED PAVEMENT WASTEWATER
- W PROPOSED WATER
- W EXISTING WATER
- WW EXISTING/PROPOSED WASTEWATER

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REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS
PUBLIC WORKS & ENGINEERING SERVICES
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS
 PROJECT NO. 2021-04-C

PAVING REPAIR PLAN
 (2 OF 2)



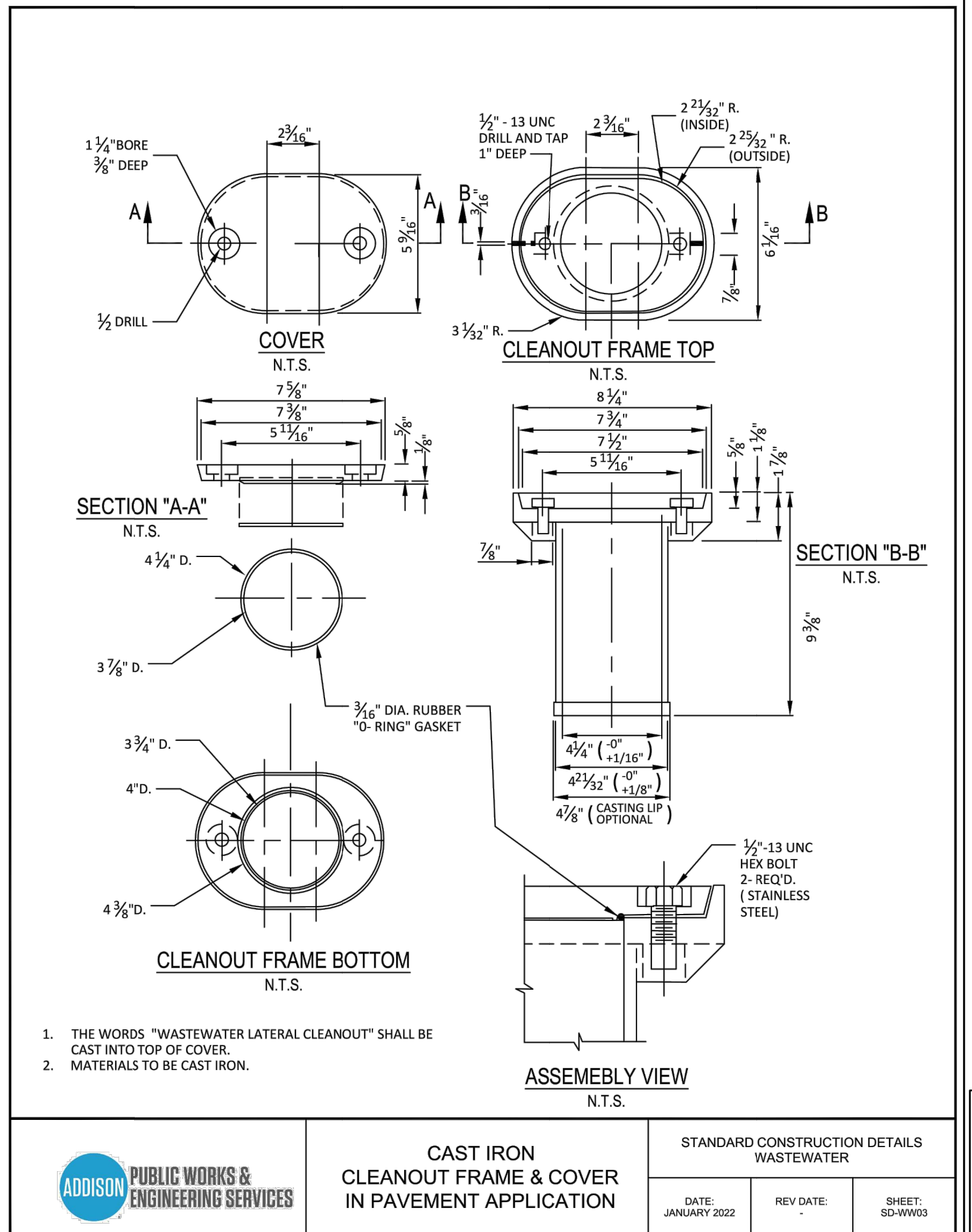
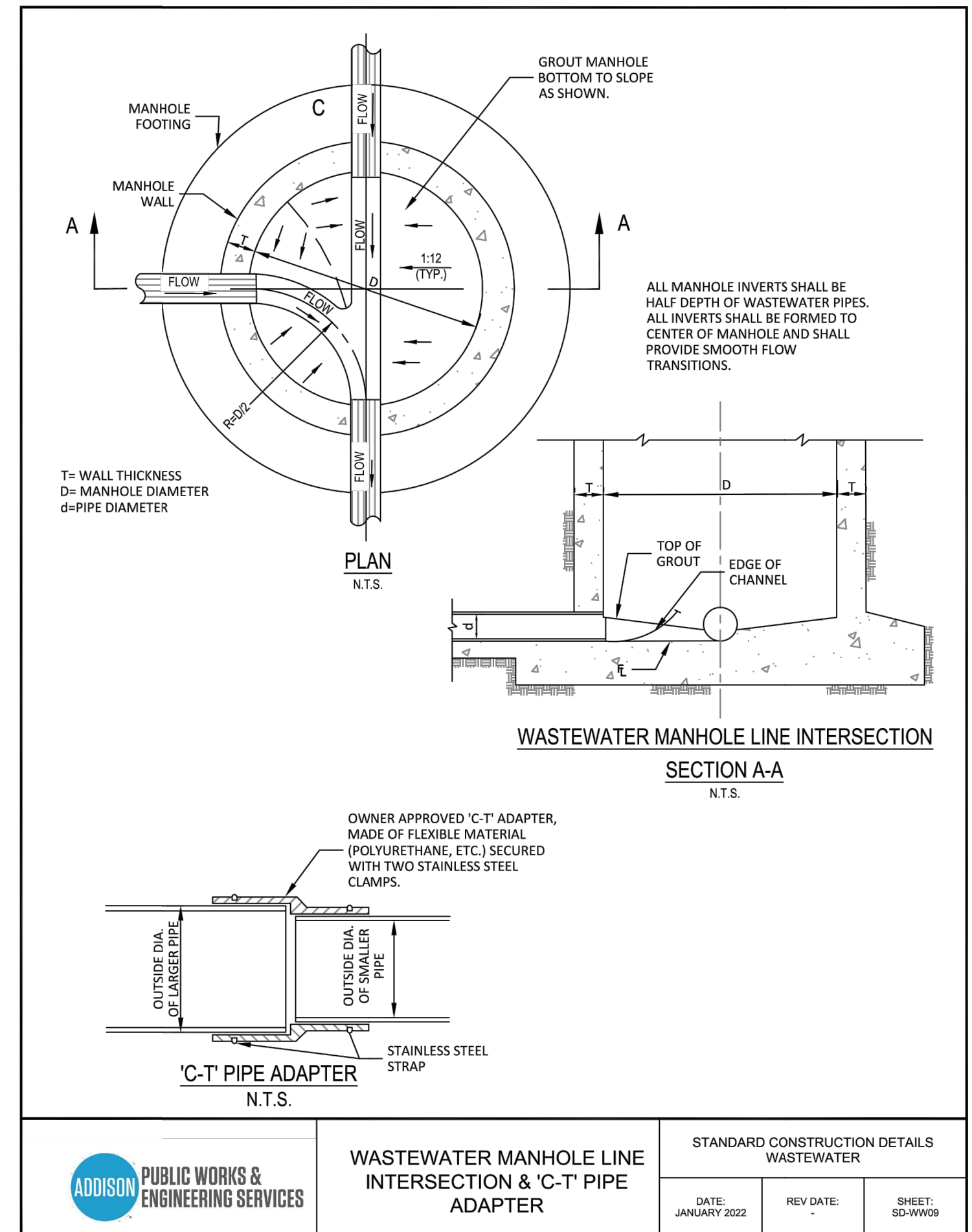
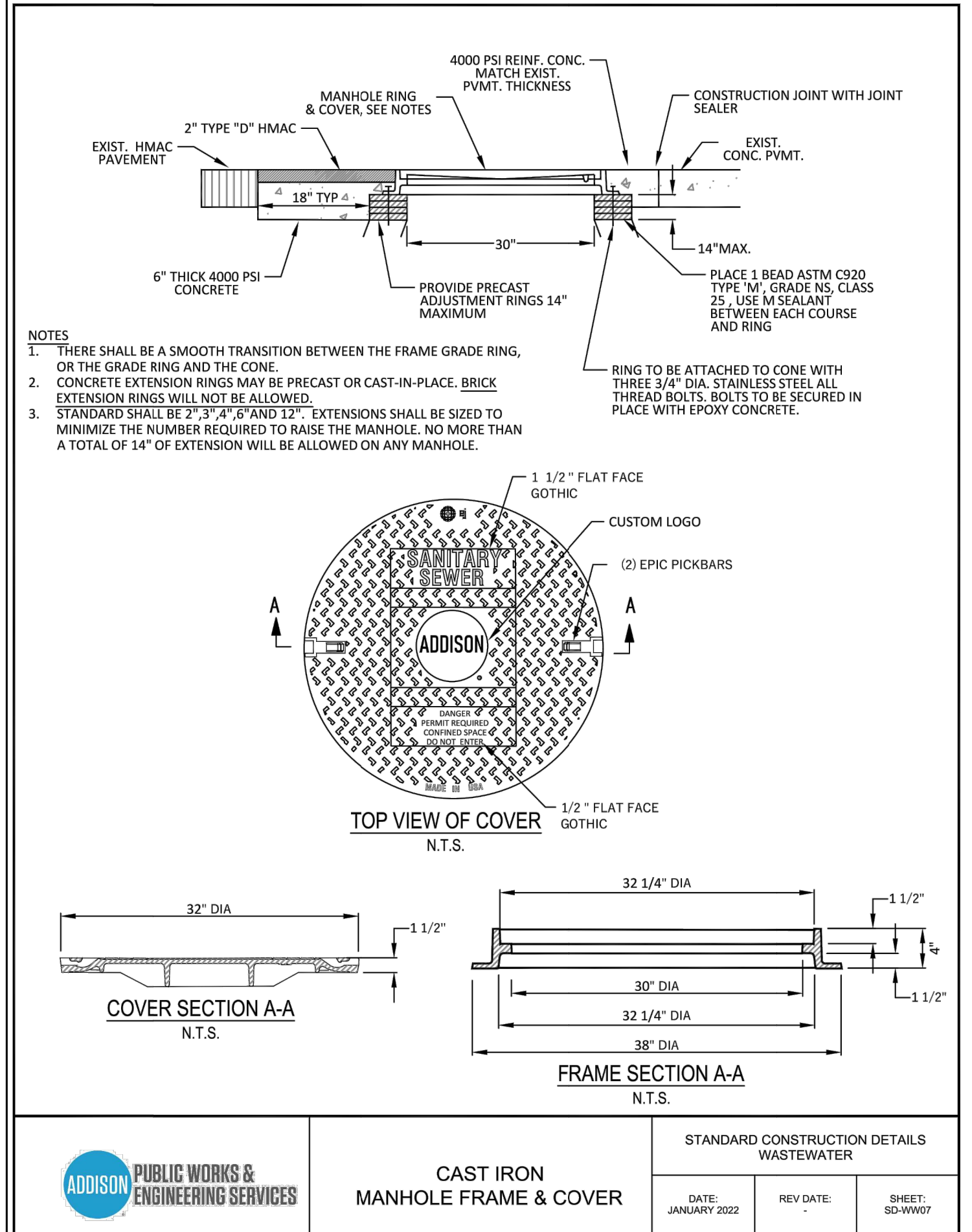
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DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: 1"=20'
FILE: PAVING REPAIR PLAN STA 0+00-7+00.dwg	SHEET NO: 12

SPECIAL NOTE:
 ALL CONCRETE MANHOLES SHALL BE COATED WITH A SPRAY EPOXY LINING SYSTEM, SUCH AS WARREN ENVIRONMENTAL EPOXY SYSTEMS, S-301-14 OR APPROVED EQUAL. NO POLYUREA TYPE COATINGS WILL BE ACCEPTED. MINIMUM THICKNESS OF 125 MILS



SURVEY CONTROL
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REV. NO.	DESCRIPTION	CHK. BY	DATE

STATE OF TEXAS
 DAVID RANKIN
 98312
 LICENSED PROFESSIONAL ENGINEER
 1/23/2023

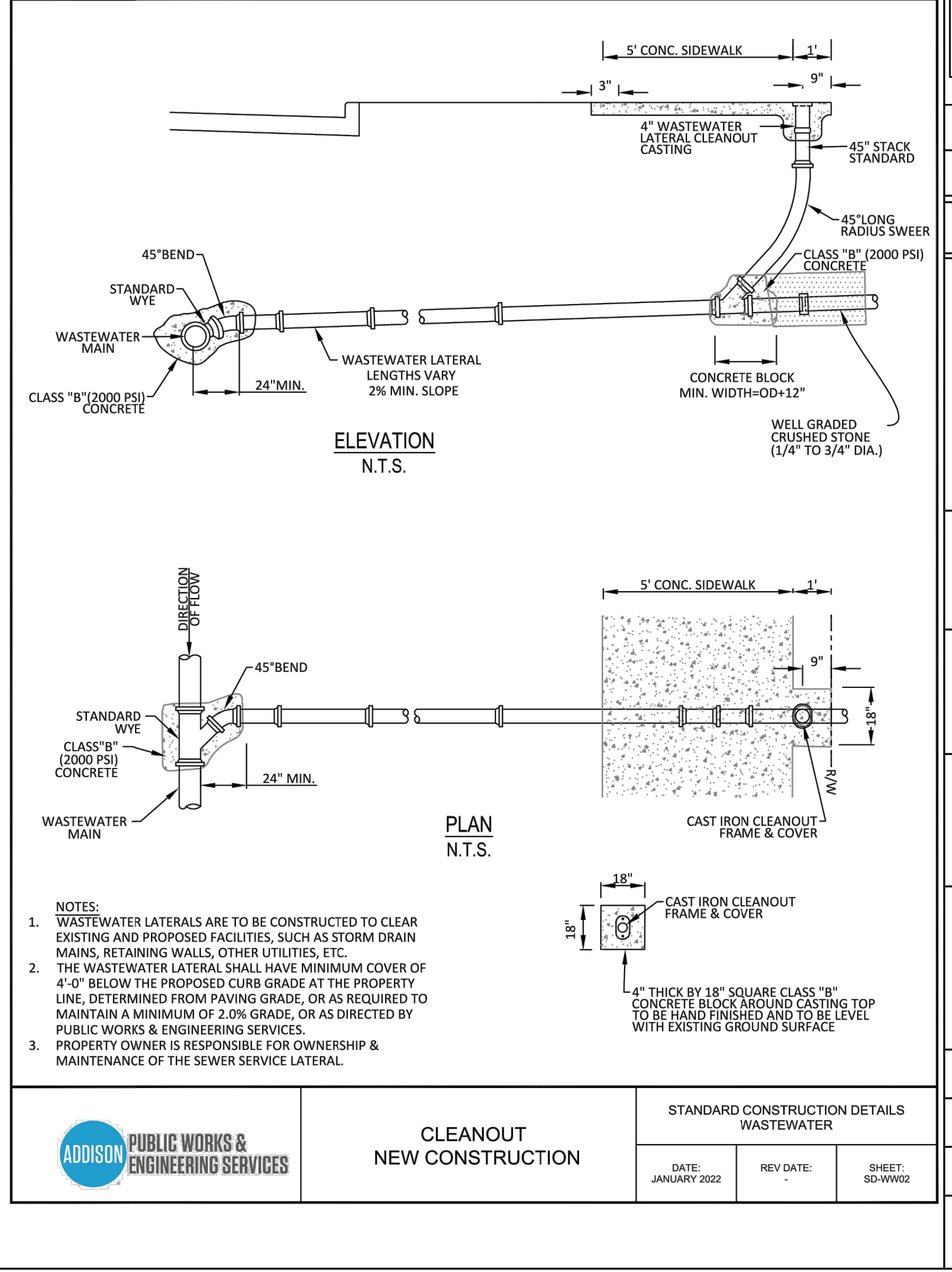
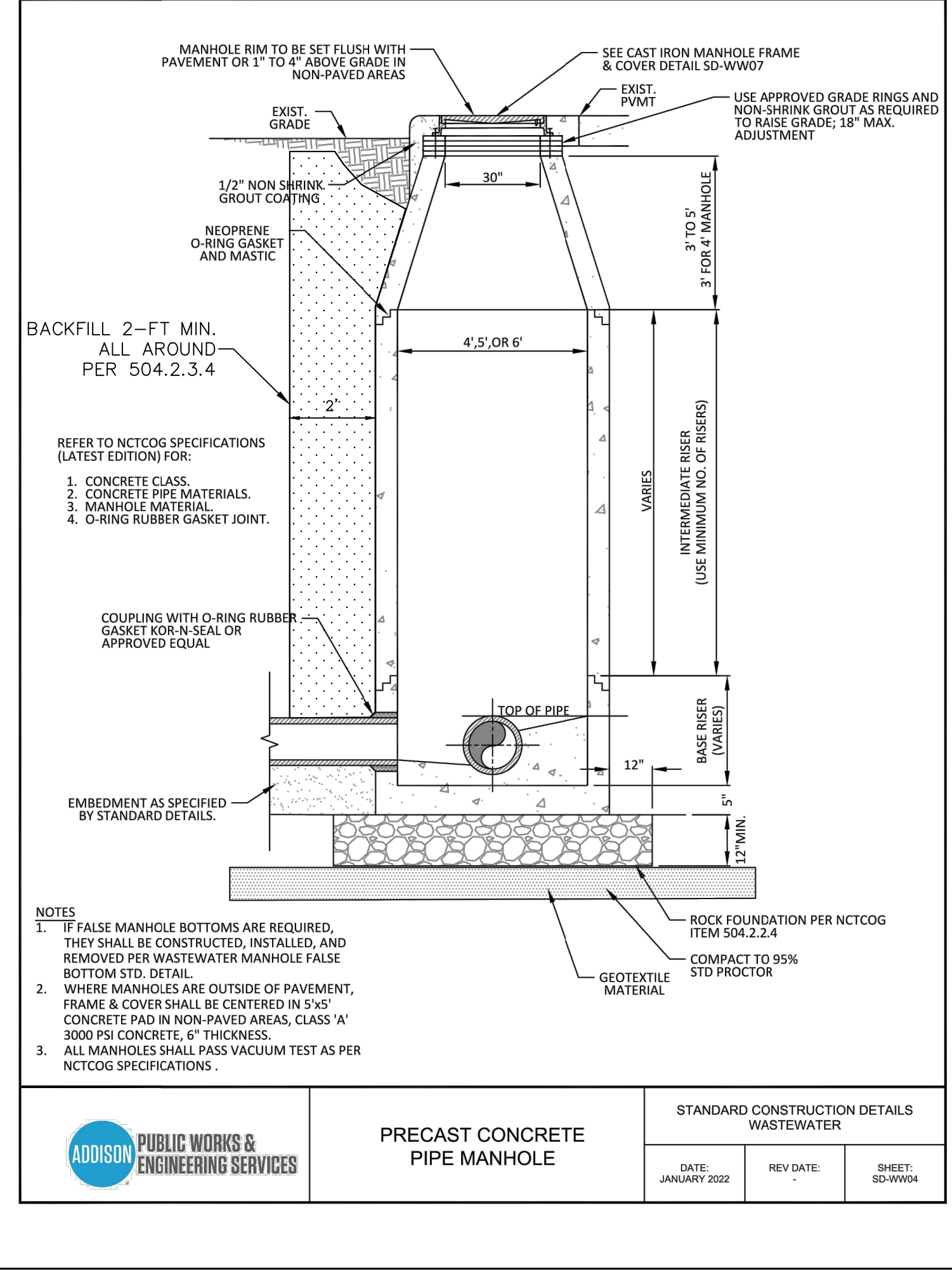
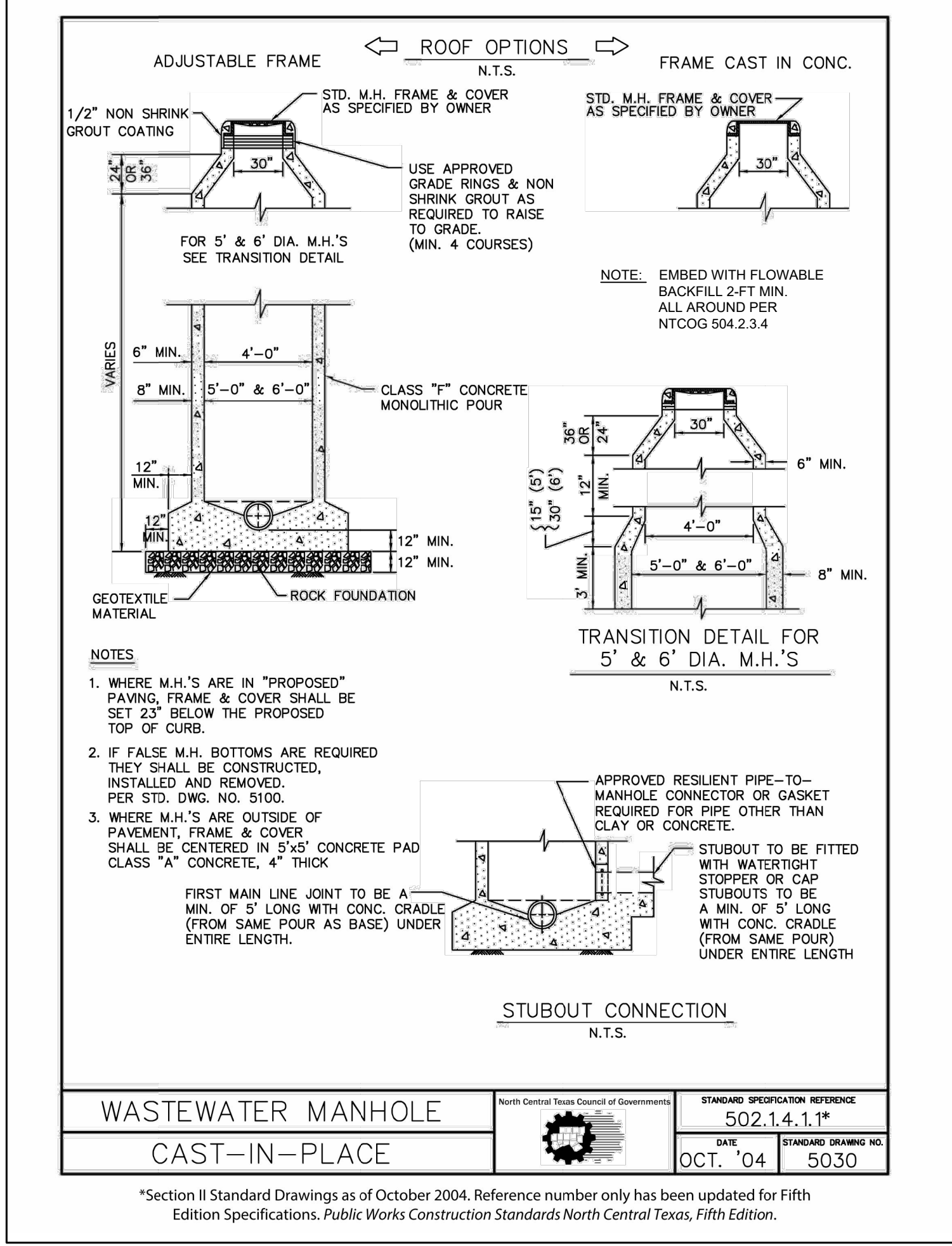
ADDISON, TEXAS PUBLIC WORKS & ENGINEERING SERVICES
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS
 PROJECT NO. 2021-04-C

WASTEWATER DETAILS

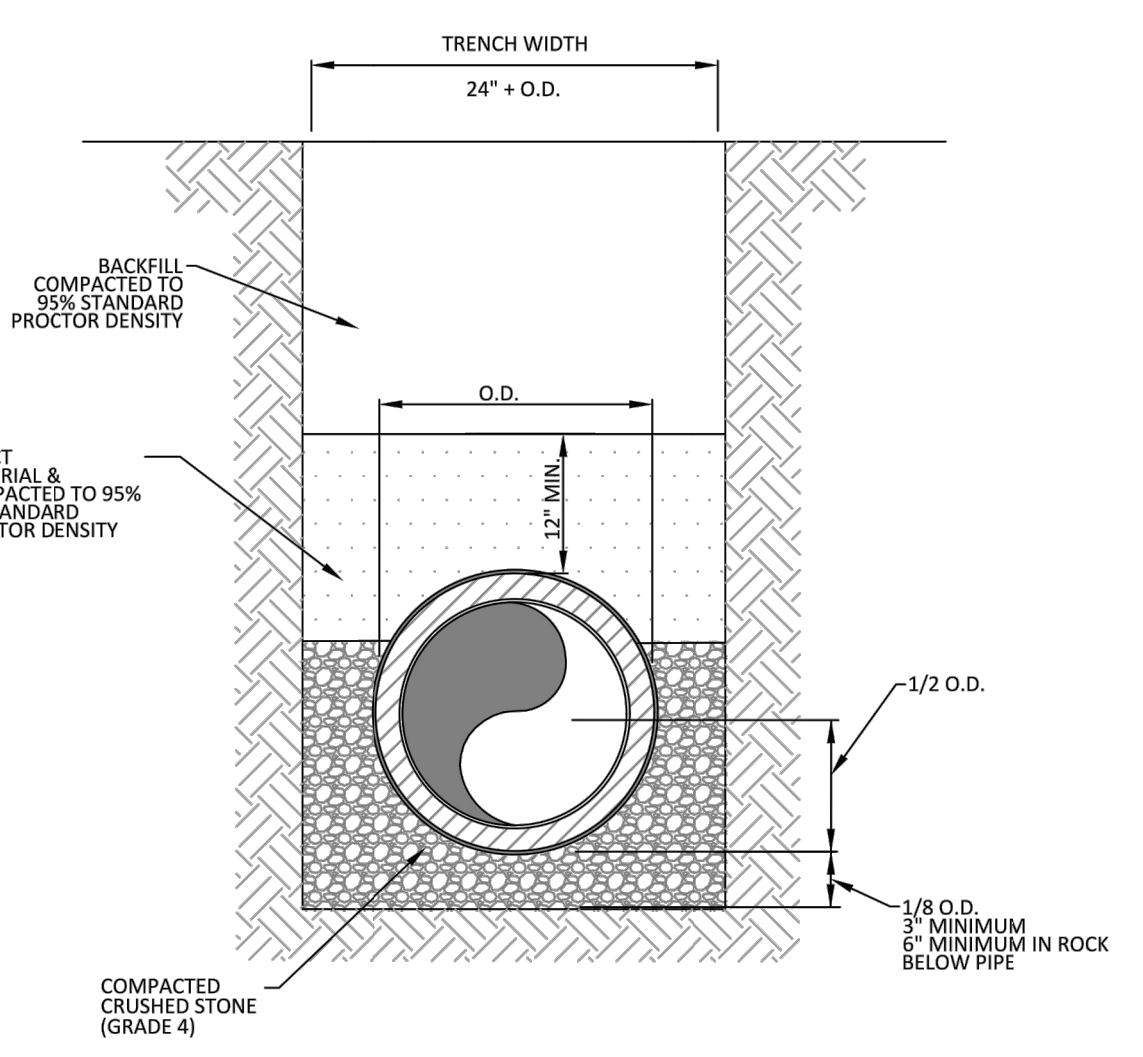
DEC ENGINEERING EXCELLENCE
 T.B.P.E. FIRM REGISTRATION #8996
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: DR DATE: 1/23/2023
 DRAWN BY: REP PROJECT NO: 532401
 CHECKED BY: DEG DRAWING SCALE: NTS

FILE: WASTEWATER DETAILS.dwg SHEET NO: 13



G:\1220\5324-01 Addison Lake Forest Drive\DWG\Details\ PLOTTED: Jan 23, 2023 9:25am Rodney Prince



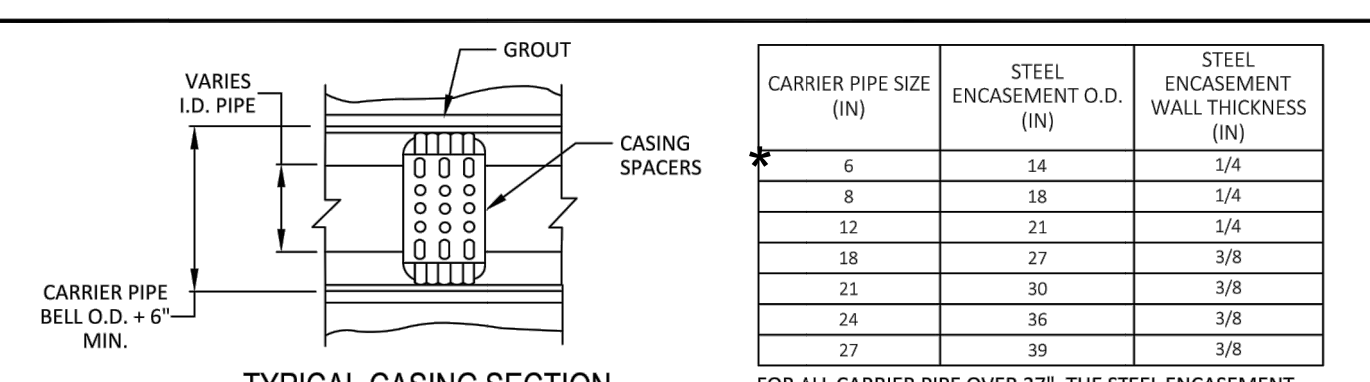
TYPICAL P.V.C. WATER MAIN EMBEDMENT
N.T.S.

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

P.V.C. WATER MAIN EMBEDMENT

STANDARD CONSTRUCTION DETAILS WASTEWATER

DATE: JANUARY 2022 REV DATE: SHEET: SD-W01

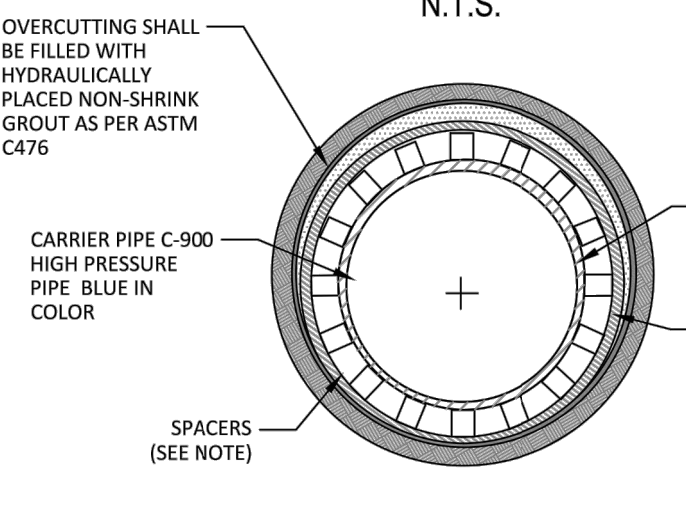


TYPICAL CASING SECTION
N.T.S.

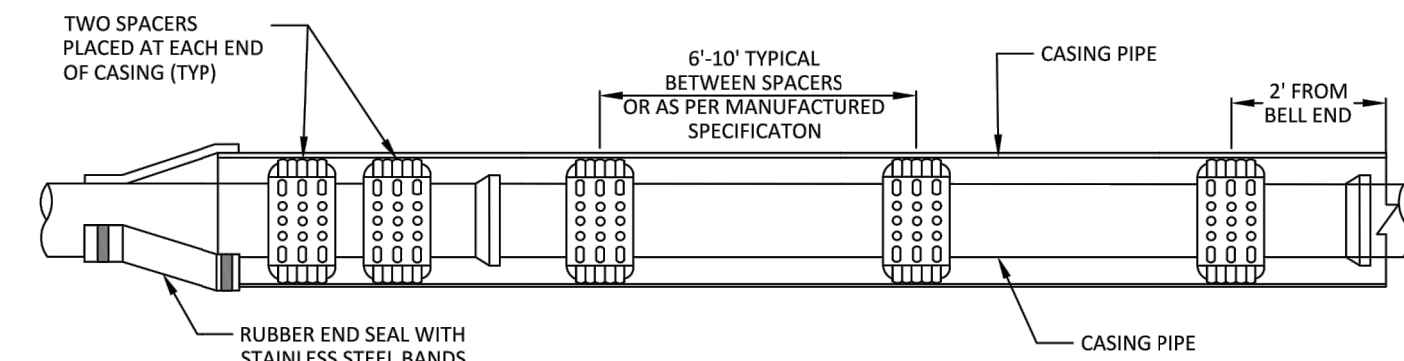
CARRIER PIPE SIZE (IN)	STEEL ENCASEMENT O.D. (IN)	STEEL ENCASEMENT WALL THICKNESS (IN)
6	14	1/4
8	18	1/4
12	21	1/4
18	27	3/8
21	30	3/8
24	36	3/8
27	39	3/8

FOR ALL CARRIER PIPE OVER 27", THE STEEL ENCASEMENT PIPE SHALL BE SIZED TO ACCOMMODATE THE APPROPRIATE SHALL

* NOTE: STEEL ENCASEMENT LESS THAN 18 INCH O.D. (I.E. 12 INCH O.D.) IS ACCEPTABLE FOR THIS PROJECT



WATER MAIN ENCASEMENT
N.T.S.



INSULATOR SPACING DETAIL
N.T.S.

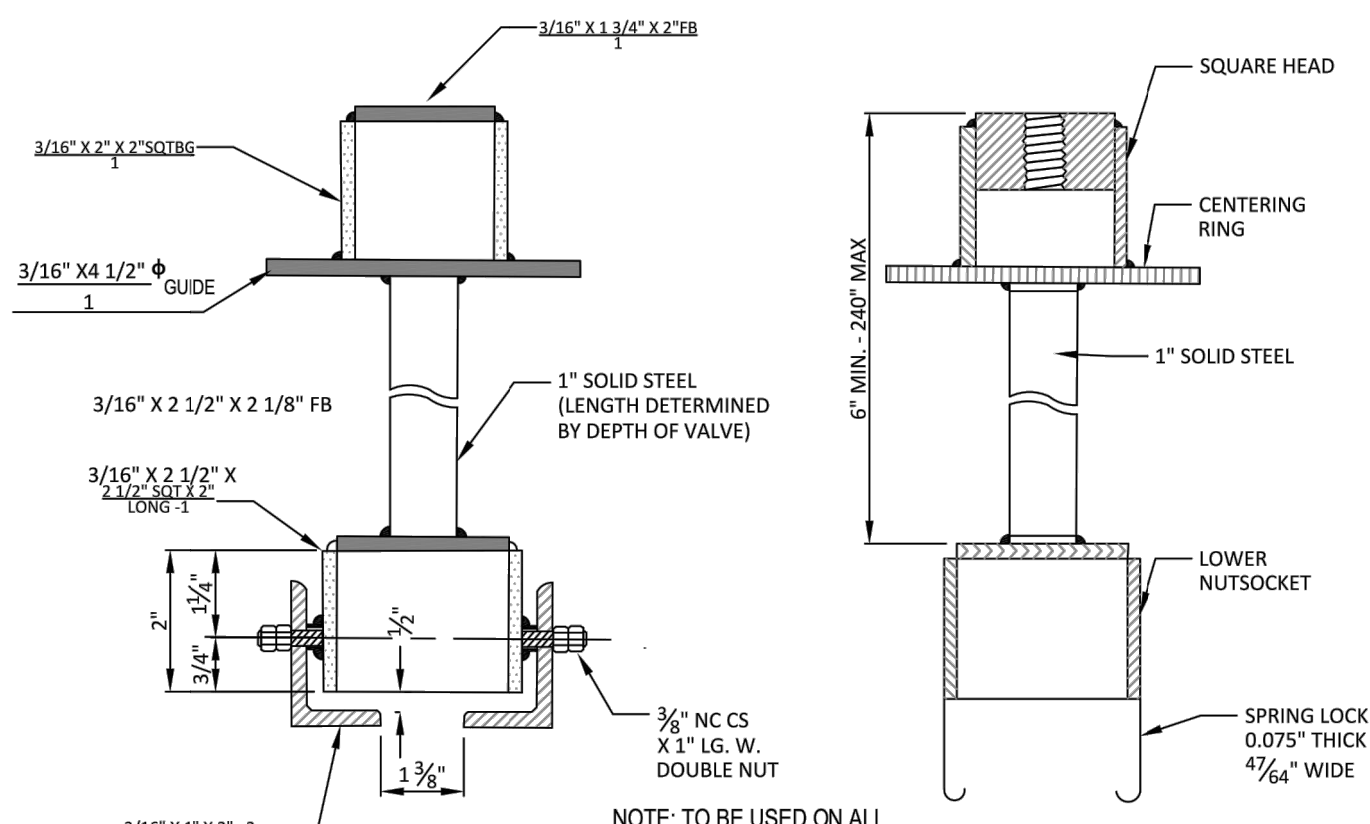
- HIGH DENSITY POLYETHYLENE SPACERS, RACI OR EQUAL, SHALL BE USED. WHERE NO CASING PIPE IS REQUIRED OVERCUTTING AROUND UTILITY SHALL BE FILLED WITH HYDRAULICALLY PLACED NON-SHRINK GROUT AS PER ASTM C476.
- ENCASEMENT PIPE SHALL BE HIGH DENSITY STEEL PIPE. ALL JOINTS TO BE WELDED 100%

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

CASING

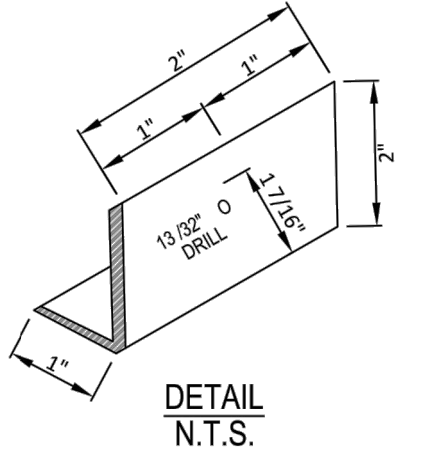
STANDARD CONSTRUCTION DETAILS WASTEWATER

DATE: JANUARY 2022 REV DATE: SHEET: SD-W03



TYPE-B VALVE EXTENSION
N.T.S.

SPRING LOCK VALVE EXTENSION
N.T.S.



ADDISON PUBLIC WORKS & ENGINEERING SERVICES

VALVE EXTENSION

STANDARD CONSTRUCTION DETAILS WATER

DATE: JANUARY 2022 REV DATE: SHEET: SD-W07

SURVEY CONTROL
CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871
 TEXAS ONE CALL/DIG TESS 1-811-344-8377
 ONCOR 1-888-313-6862
 AT&T 1-800-331-0500
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427
 ATMOS ENERGY 1-888-286-6700
 PATRICK MCKENZIE ATMOS EMERGENCY CONTACT 972-360-4428

REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS
 PUBLIC WORKS &
 ENGINEERING SERVICES
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS
 PROJECT NO. 2021-04-C

WATER DETAILS
(1 OF 3)

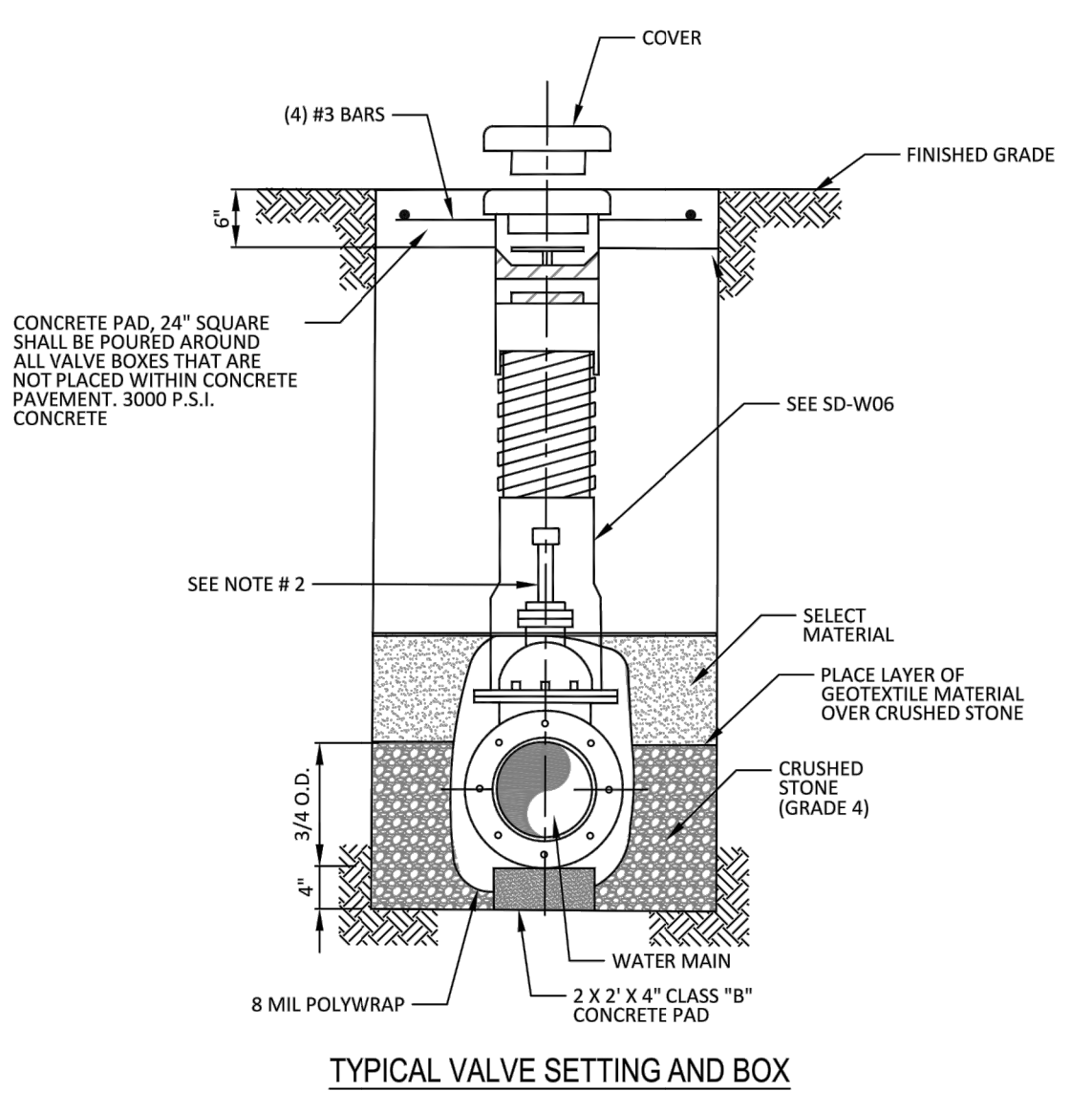
DEC ENGINEERING EXCELLENCE
 T.B.P.E. FIRM REGISTRATION #8996
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: DR DATE: 1/23/2023

DRAWN BY: REP PROJECT NO: 532401

CHECKED BY: DEG DRAWING SCALE: NTS

FILE: WATER DETAILS (3 OF 3).dwg SHEET NO: 14



TYPICAL VALVE SETTING AND BOX
N.T.S.

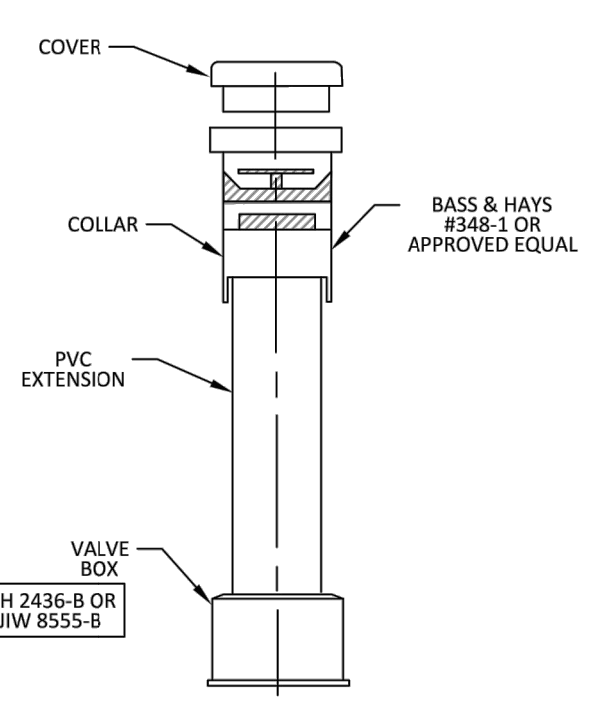
- NOTES:
- 4" THRU 12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
 - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHERE OPERATING NUT IS LOCATED IN EXCESS OF 5' BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO ENSURE THAT ITS TOP IS WITHIN 5' OF VALVE BOX LID.
 - BLUE "V" (3") CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
 - ALL IRON MATERIALS SHALL BE DOMESTIC. (MADE IN USA)

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

VALVE SETTING

STANDARD CONSTRUCTION DETAILS WASTEWATER

DATE: JANUARY 2022 REV DATE: 04-08-2017 SHEET: SD-W05



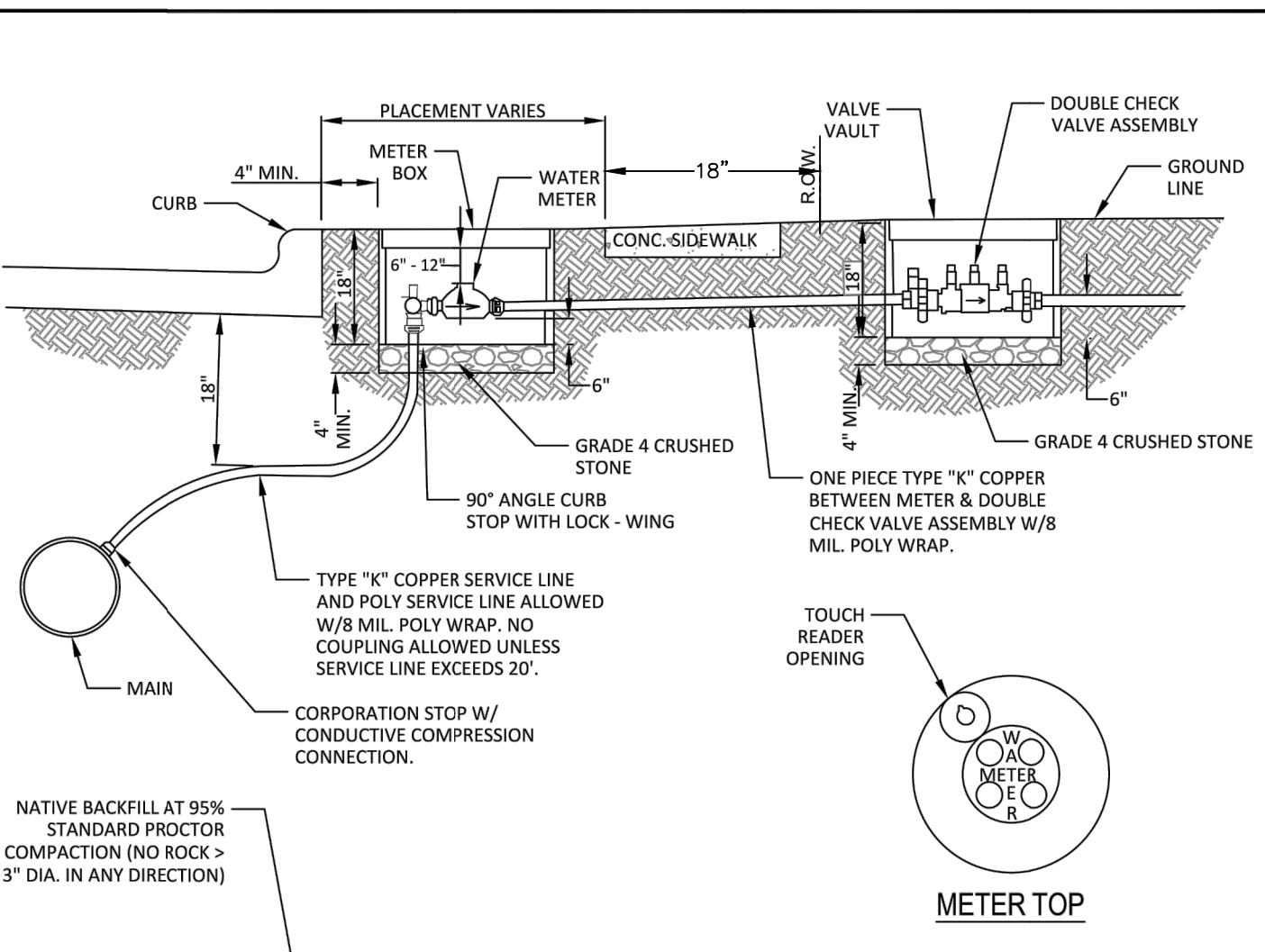
FOR ALL VALVES- 6" C-900 PVC
NTS

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

VALVE BOX WITH EXTENSION

STANDARD CONSTRUCTION DETAILS WATER

DATE: JANUARY 2022 REV DATE: SHEET: SD-W06



- GENERAL INSTALLATION NOTES:
- WATER METER SHALL BE PLACED IN CENTER OF LOT WITH THE WASTEWATER SERVICE TO BE LOCATED 10' DOWN STREAM.
 - METER AND BOX SHALL BE SET BY THE CONTRACTOR TO ADDISON STANDARDS IN ALL CASES.
 - THE METER BOX SHALL BE SET WITHIN THE R.O.W. OR A DEDICATED UTILITY EASEMENT. IN ALL CASES, THE METER BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC.
 - WATER SERVICES SHALL NOT BE CONNECTED TO DEAD END LINES OR FIRE HYDRANT LEADS WITHOUT PRIOR APPROVAL.
 - ALL MATERIALS SHALL CONFORM TO THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.

POLY SERVICE LINE ALLOWED	DFW PLASTICS, INC. DFWAWBC-24-1 RING & COVER					
	ENDTRACE CONNECTION	MIN. DIA.	COVER & RINGS	MIN. HT.	MIN. CAN WEIGHT	MIN. TOTAL WEIGHT
1 INCH	1 INCH	24 INCHES	20 1/8 INCHES	18 INCHES	17 LBS.	98 LBS.
2 INCH	2 INCH	28 INCHES	20 1/8 INCHES	18 INCHES	20 LBS.	127 LBS.

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

SERVICE CONNECTION WITH METER BOX

STANDARD CONSTRUCTION DETAILS WATER

DATE: JANUARY 2022 REV DATE: SHEET: SD-W12

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 PLOTTED: Jan 23, 2023 9:25am
 Rodney Prince

SPECIAL NOTE:
ALL CONCRETE MANHOLES SHALL BE COATED WITH A SPRAY EPOXY LINING SYSTEM, SUCH AS WARREN ENVIRONMENTAL EPOXY SYSTEMS, S-301-14 OR APPROVED EQUAL. NO POLYURIA TYPE COATINGS WILL BE ACCEPTED. MINIMUM THICKNESS OF 125 MILS

SURVEY CONTROL
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REV. NO.	DESCRIPTION	CHK. BY	DATE

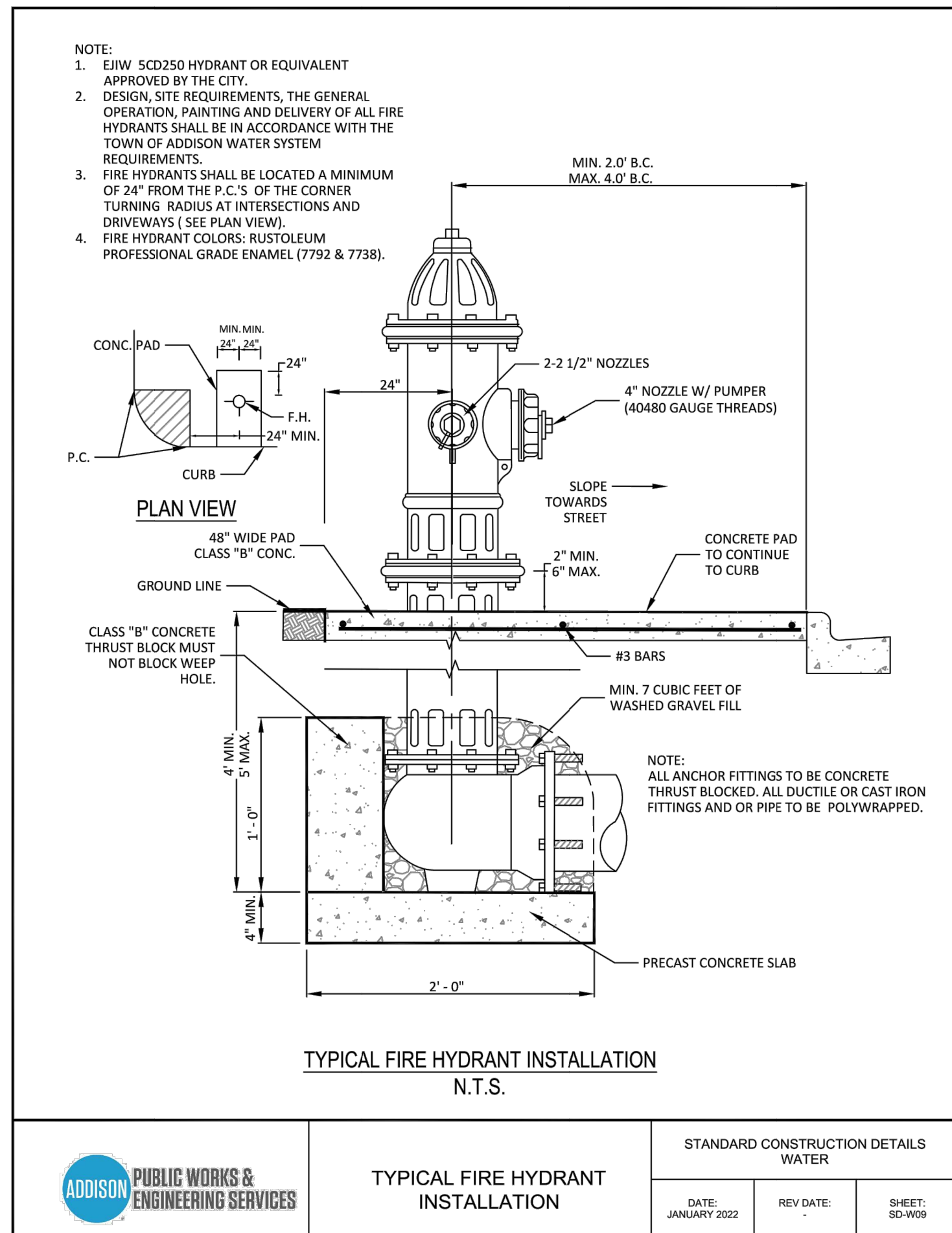
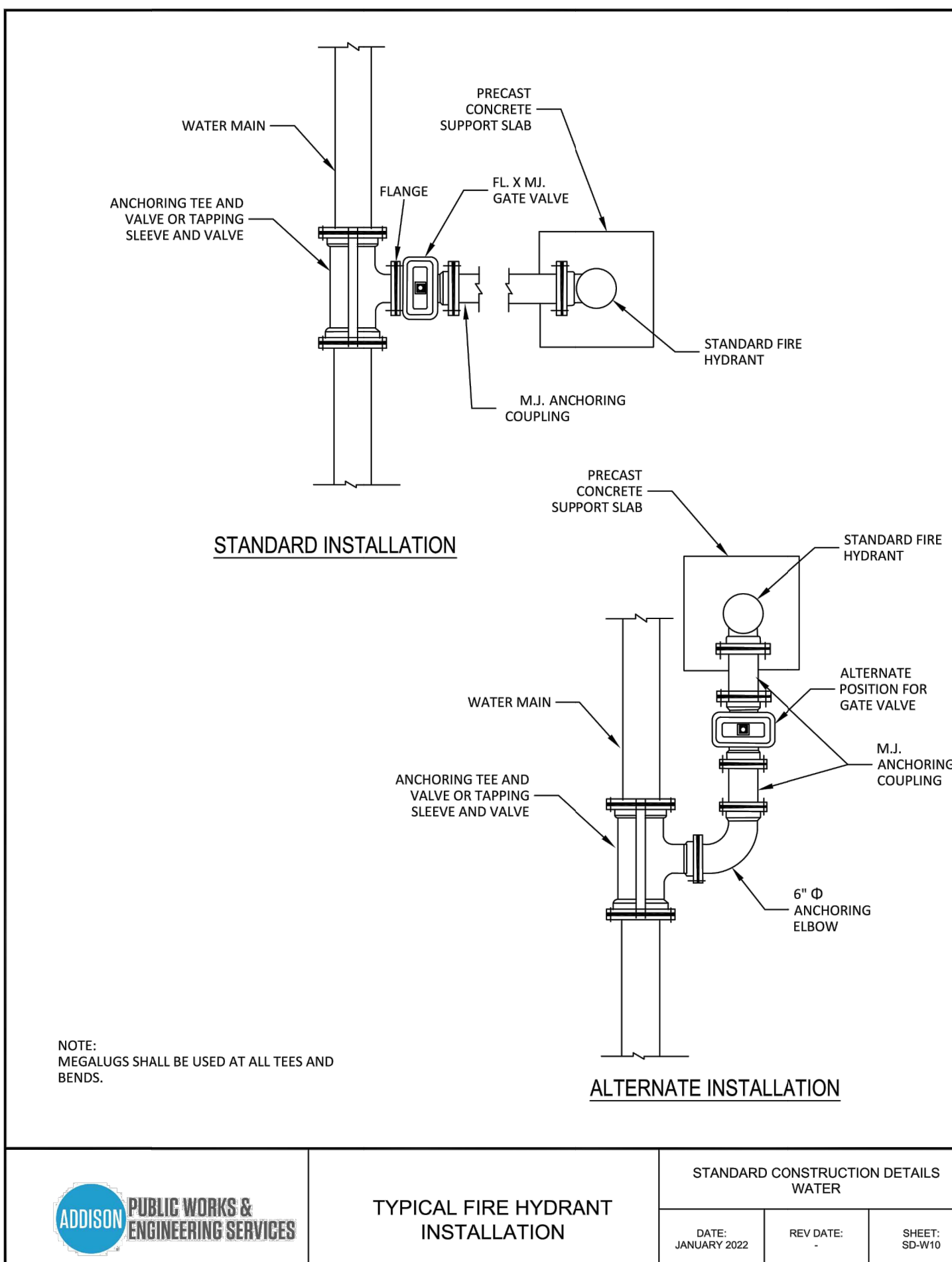
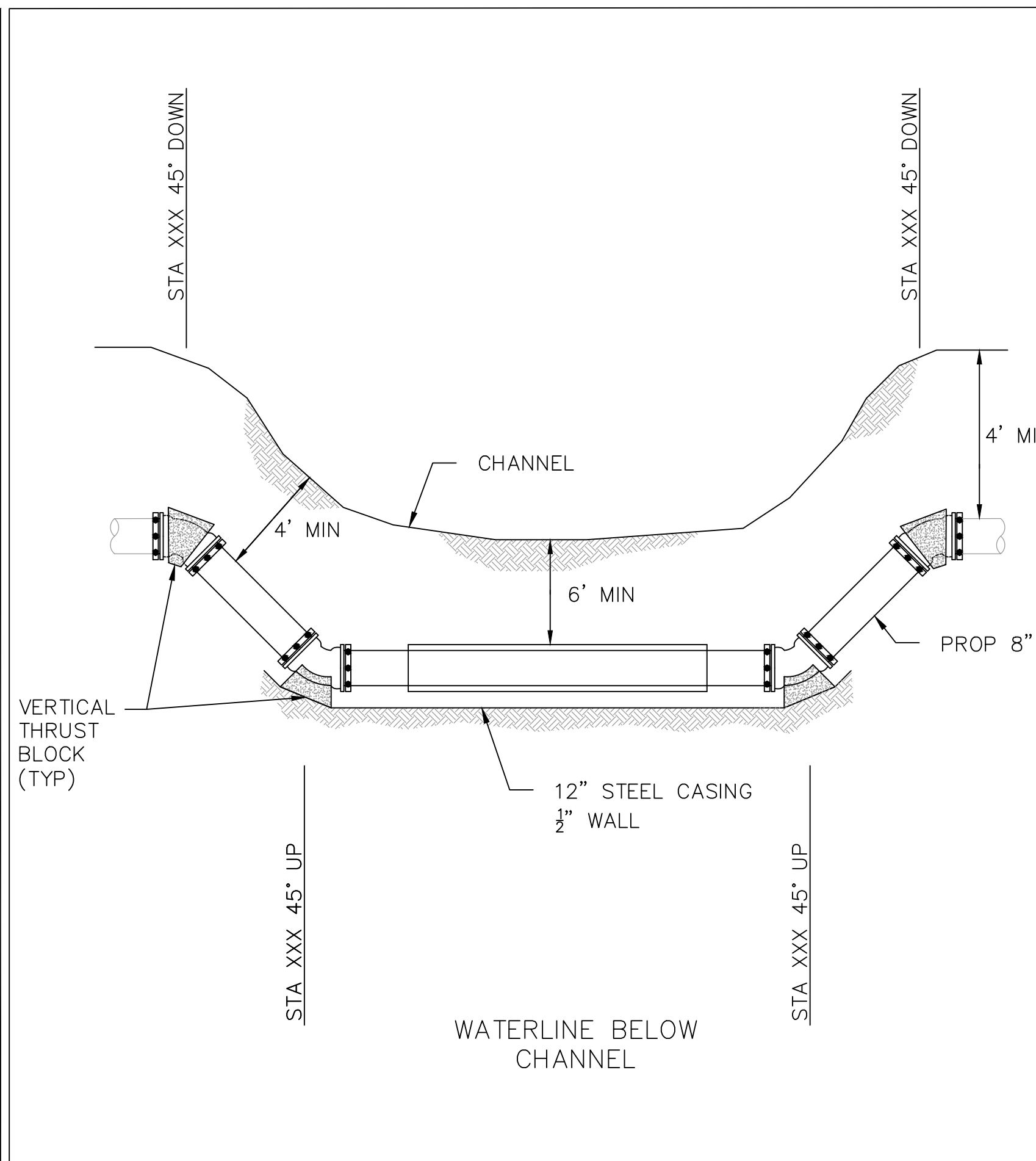


**ADDISON, TEXAS
PUBLIC WORKS &
ENGINEERING SERVICES**
LAKE FOREST DRIVE
WATER LINE UPGRADES AND WASTEWATER
IMPROVEMENTS
PROJECT NO. 2021-04-C

**WATER DETAILS
(3 OF 3)**

**DEC | ENGINEERING
EXCELLENCE**
T.B.P.E. FIRM REGISTRATION #8996
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: NTS
FILE: WATER DETAILS (3 OF 3).dwg	SHEET NO: 16



	TYPICAL FIRE HYDRANT INSTALLATION	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: JANUARY 2022	REV DATE: -	SHEET: SD-W09

	TYPICAL FIRE HYDRANT INSTALLATION	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: JANUARY 2022	REV DATE: -	SHEET: SD-W10

TEMPORARY WATER SERVICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 1. Temporary Water Service needed to maintain service during water main replacement project
- B. Deviations from this Specification
 1. None.
- C. Products Installed But Not Furnished Under This Section
 1. Fire Hydrant Meters

1.2 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment
 1. Measurement
 - a. Measurement for Temporary Water Services will be measured by:
 - 1) Lump sum
 2. Payment
 - a. The work performed and materials furnished in accordance with this Item and measured under "Measurement" will be paid for at the unit price bid for "Water Bypass System" of the type specified.
 3. The price bid shall include:
 - a. Temporary water service line
 - b. Connections
 - c. Fittings
 - d. Valves
 - e. Corporation stops
 - f. Temporary asphalt for crossings
 - g. Traffic Control
 - h. Disinfection
 - i. Removal of temporary services

1.3 REFERENCES

- A. Reference Standards
 1. NSF International
 - a. 61, Drinking Water System Components – Health Effects
 2. ASTM International (ASTM)
 - a. D3035, Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Scheduling
 1. Provide advance notice for service interruption and meet requirements of the Town of Addison.

1.1 SUBMITTALS

- A. Water Bypass plan, layout and sequence of construction.
- B. Resident and Town notification procedure.
- C. Temporary Fire Hydrant detail and layout.

PART 2 - PRODUCTS

2.1 OWNER-FURNISHED PRODUCTS

- A. Fire Hydrant Meters

2.2 EQUIPMENT, PRODUCT TYPE, AND MATERIALS

- A. Description
 1. Regulatory Requirements
 - a. All Temporary Water Service components in contact with potable water shall conform to the requirements of NSF 61.
 - B. Materials
 1. Service Couplings, Fittings, and Corporation Stops
 - a. Conform to NTCOG Technical Specifications Section 500.
 2. Service lines
 - a. Polyethylene tubing
 - b. Conform to ASTM D3035 and SDR 11
 3. Temporary Water Service Main
 - a. Galvanized steel pipe
 - b. Conform to Schedule 40.
 4. Driveway Approach
 - a. Asphalt
 - 1) Type B Asphalt in accordance with Section 32.12.16
- C. Design Criteria
 1. Service lines
 - a. 3/4-inch minimum pipe size
 - b. Minimum flow rate of 5 GPM at a dynamic pressure of 35 psi
 2. Temporary Water Service Main
 - a. 2-inch minimum pipe size

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General
 1. Install Temporary Water Services in accordance with provisions herein and in accordance with NTCOG and Town Standard Details as applicable.
 2. Perform disinfection test of temporary water service main and water services in accordance with NTCOG Section 500.

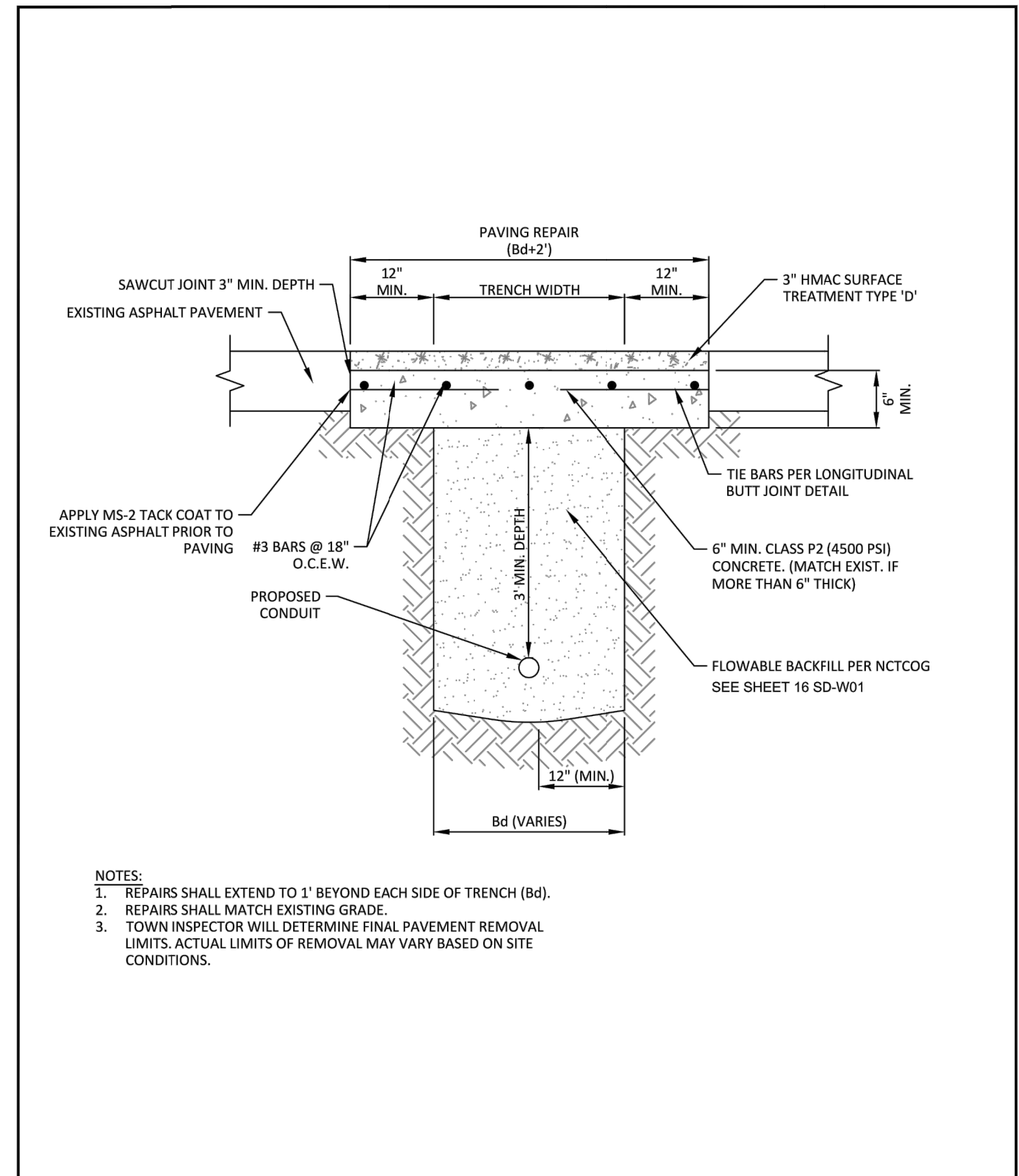
A. Temporary Water Service Installation

1. Connect to existing water supply
 - a. Fire hydrant
 - 1) Connect to fire hydrant with hydrant meter and 2-inch gate valve.
 - 2) Record water usage with a hydrant meter.
 2. Water service
 - a. Connect 3/4-inch water service to 2-inch temporary water service main.
 - b. Remove existing meters, tag with address and provide to the Town Inspector.
 - c. Connect 3/4-inch temporary water service to existing private service.
 - d. Cover domestic meter box with protective guard or barricade.
- B. Intersection and Driveway Approach Crossing for Temporary Water Service**
1. Crossing for Temporary Water Service Main
 - a. Cover temporary service line with sufficient asphalt to protect service line and to provide a driveable crossing.
 - b. If required to bury temporary service line due to high volume traffic, or other reasons required by the Town, excavate, embed and backfill in accordance with NTCOG Section 500.

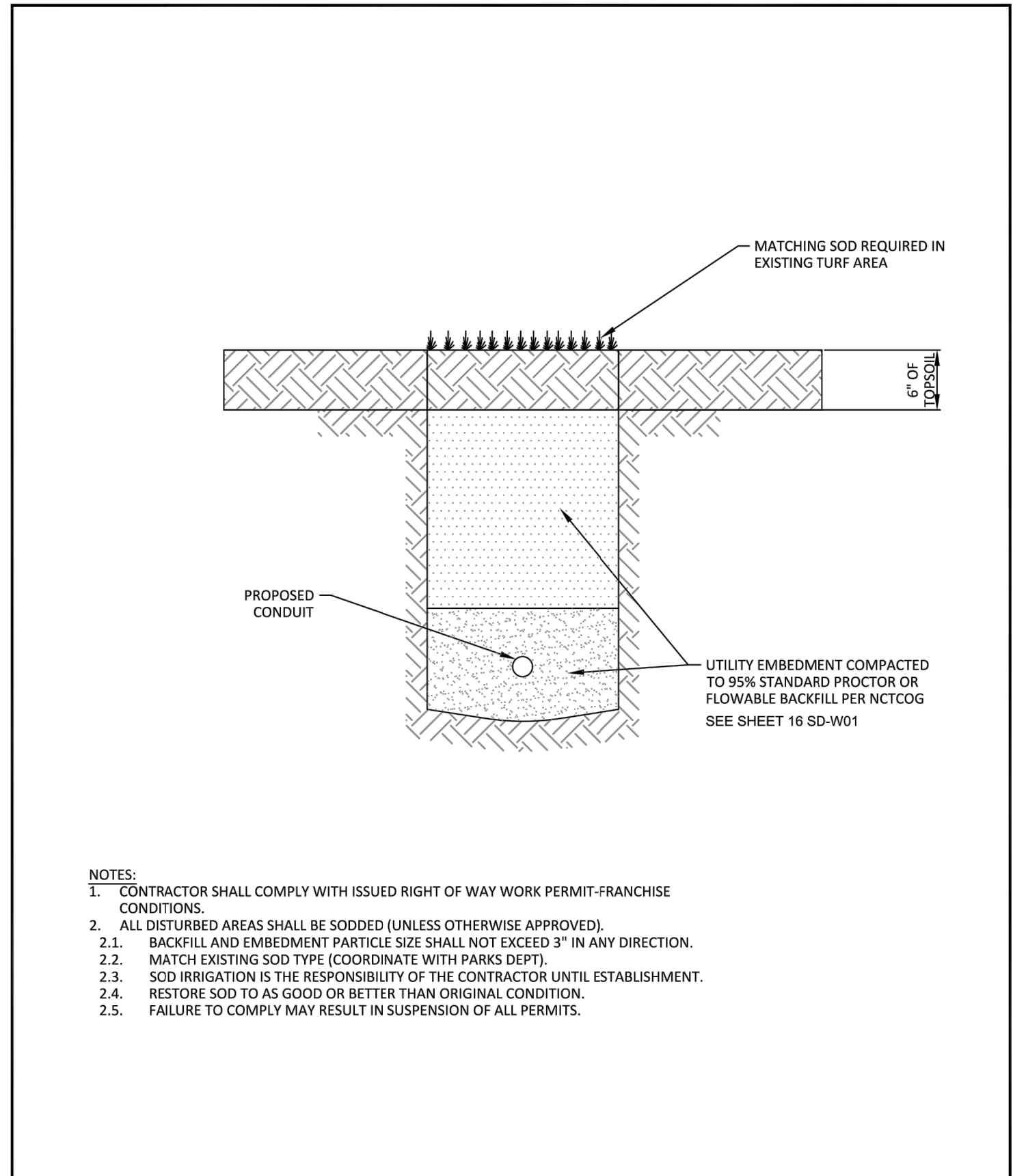
3.2 FIELD [or] SITE QUALITY CONTROL

- A. Field Tests and Inspections
 1. Check each water service installation for leaks with full flow through the curb stop at the time the main is tested in accordance with NTCOG Section 500.

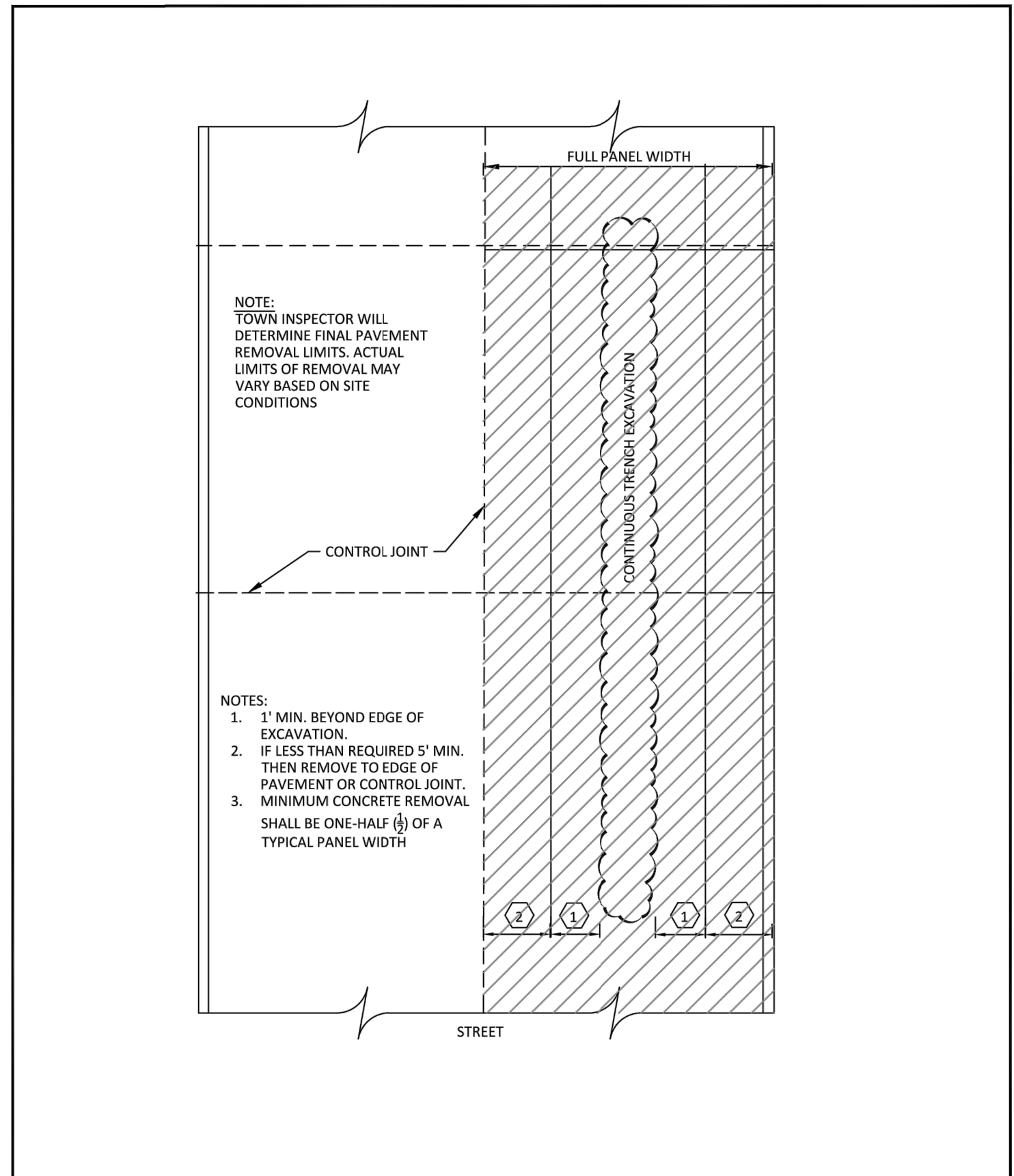
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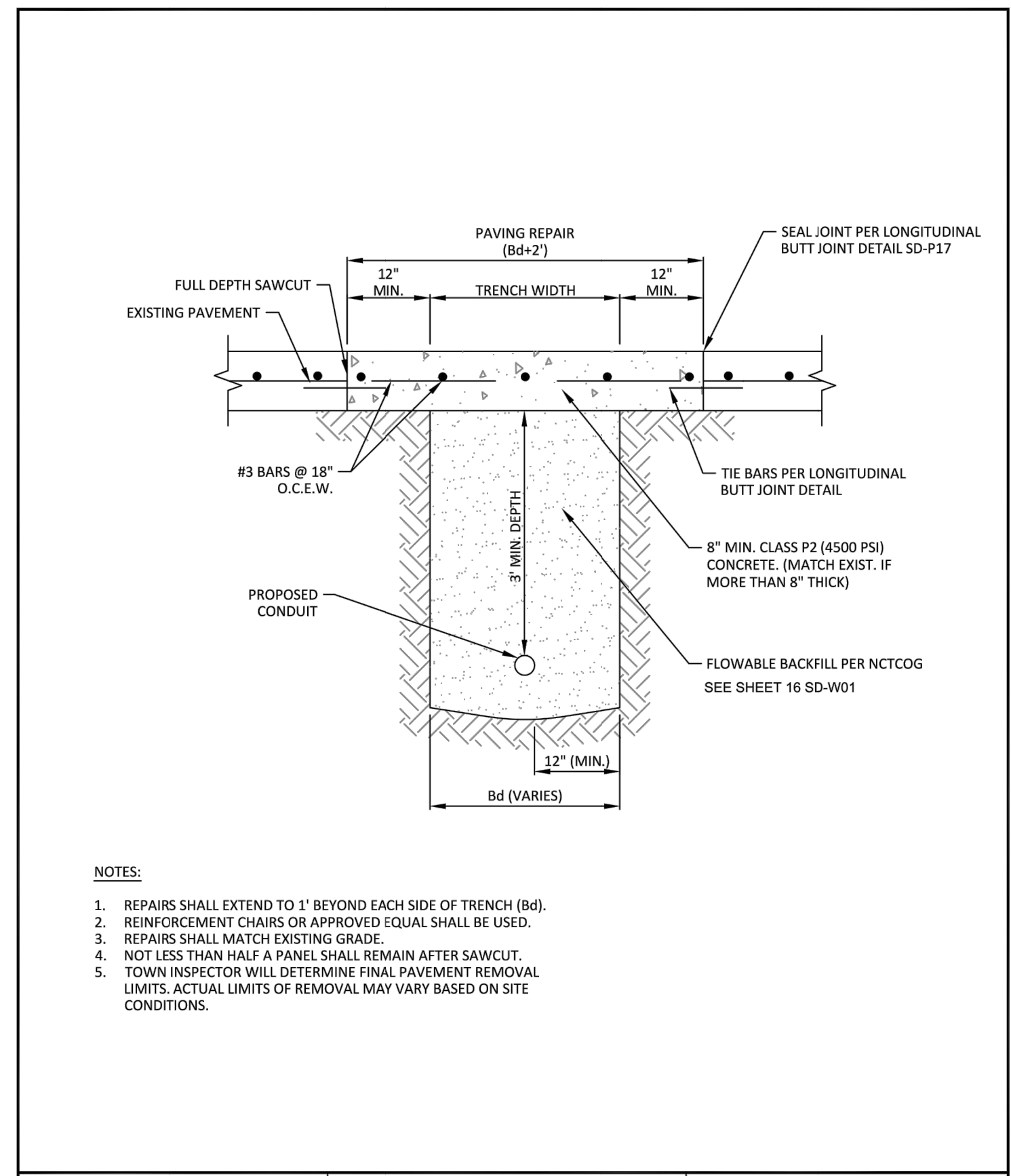
	UTILITY INSTALLATION BENEATH ASPHALT ROAD SURFACE	STANDARD CONSTRUCTION DETAILS FRANCHISE UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: JANUARY 2022	REV DATE:	SHEET: SD-U02



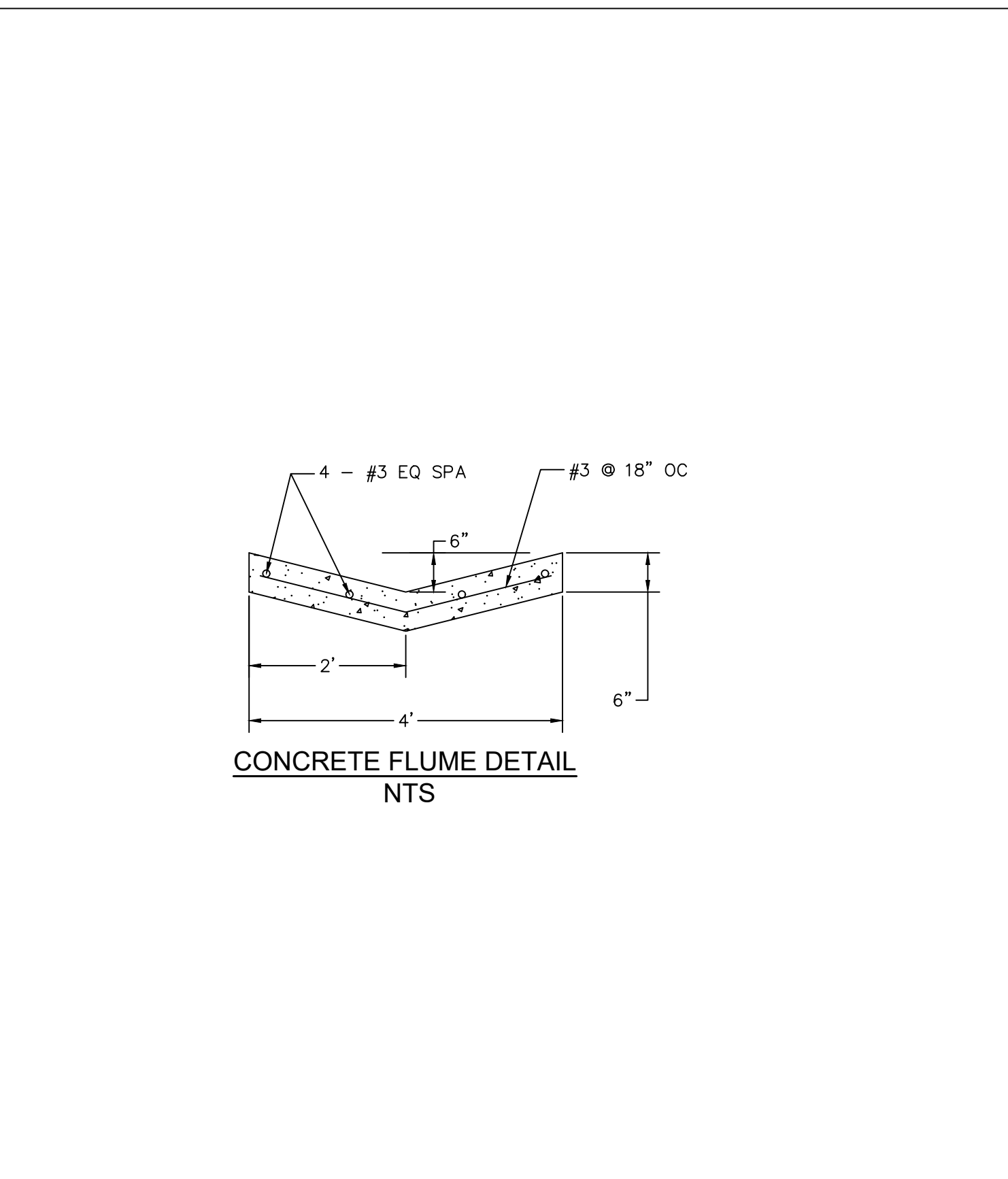
	UTILITY INSTALLATION WITHIN TURF AREAS	STANDARD CONSTRUCTION DETAILS FRANCHISE UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: JANUARY 2022	REV DATE:	SHEET: SD-U04



	CONCRETE STREET CUT REPAIRS EXAMPLE 2	STANDARD CONSTRUCTION DETAILS FRANCHISE UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: JANUARY 2022	REV DATE:	SHEET: SD-U06



	UTILITY INSTALLATION BENEATH CONCRETE ROAD SURFACE	STANDARD CONSTRUCTION DETAILS FRANCHISE UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: JANUARY 2022	REV DATE:	SHEET: SD-U01



SURVEY CONTROL CITY OF ADDISON MONUMENT NO. 31 (578.67') HELD FOR VERTICAL

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PATRICK MCKENZIE ATMOS EMERGENCY CONTACT	972-360-4428

REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS
PUBLIC WORKS & ENGINEERING SERVICES
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS
 PROJECT NO. 2021-04-C

PAVE DETAILS TRENCHLINE & RESTORATION



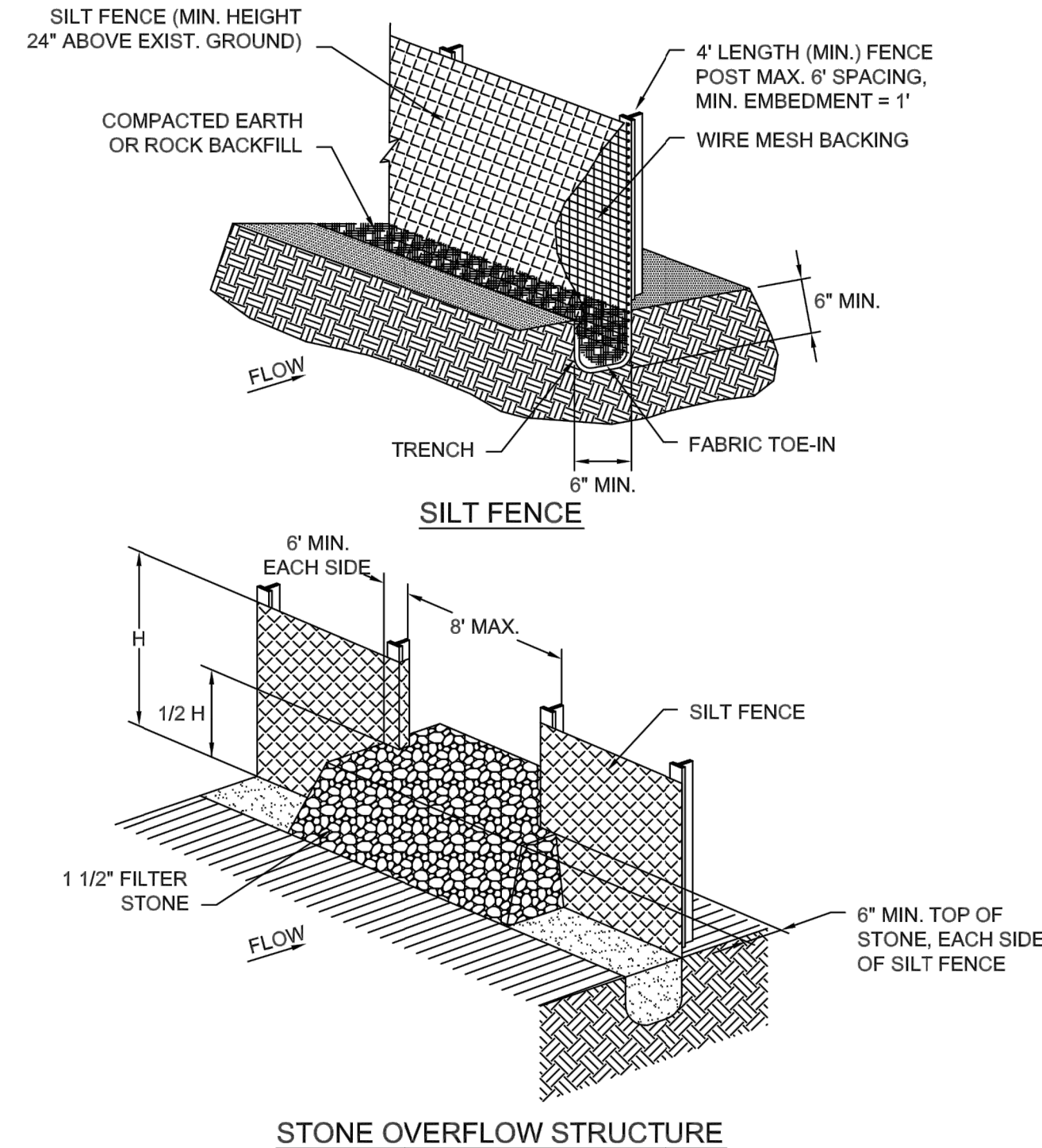
DESIGNED BY: DR	DATE: 1/23/2023
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CHECKED BY: DEG	DRAWING SCALE: NTS

FILE: EROSION CONTROL DETAILS .dwg	SHEET NO: 17
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 Rodney Prince

SILT FENCE GENERAL NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SILT FENCE

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.5*
	DATE OCT. '04
	STANDARD DRAWING NO. 1020B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

SILT FENCE

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.5*
	DATE OCT. '04
	STANDARD DRAWING NO. 1020A

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EROSION CONTROL DETAILS

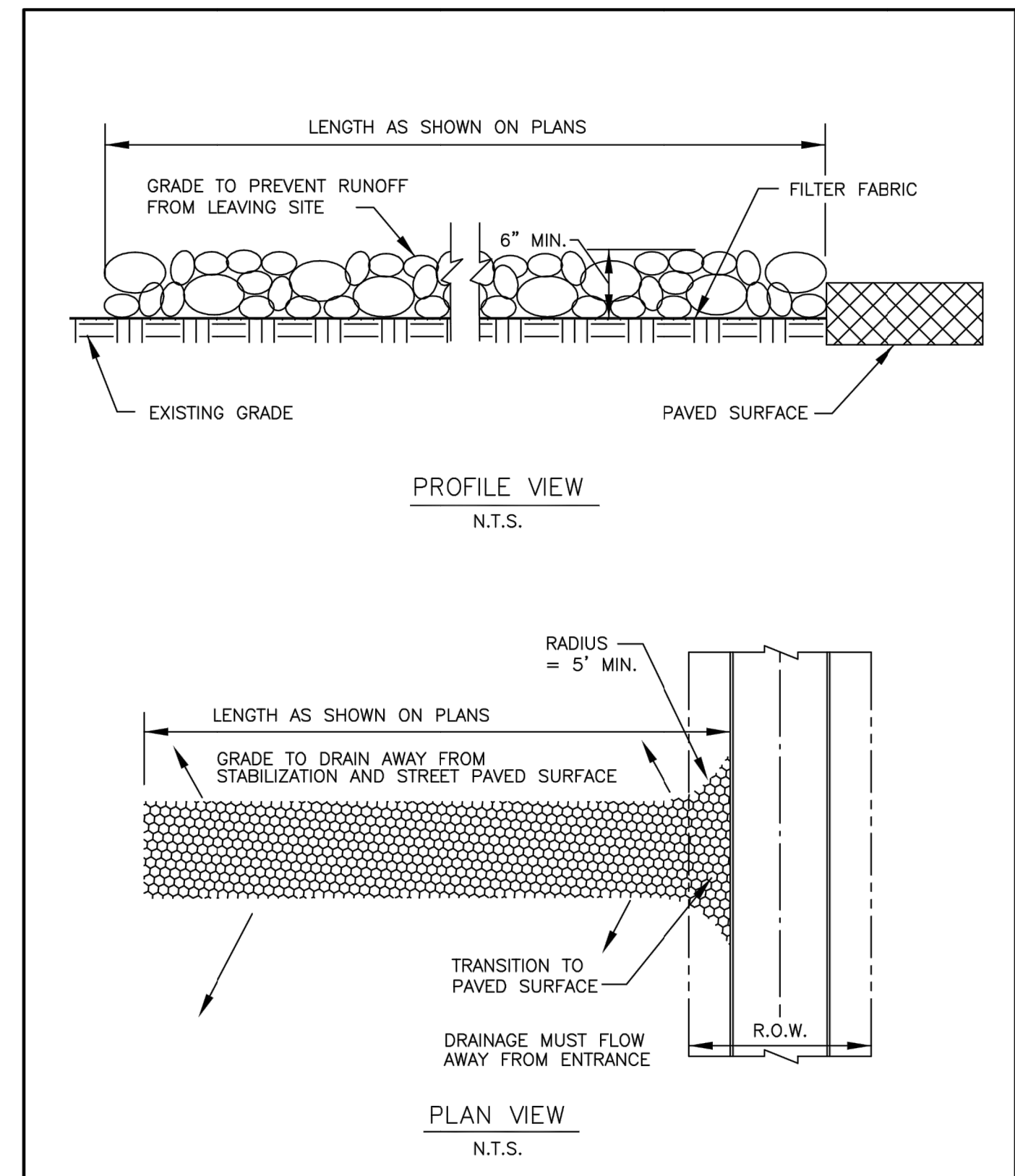


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FILE: EROSION CONTROL DETAILS .dwg SHEET NO: 18

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER COARSE AGGREGATE.
2. LENGTH SHALL BE AS SPECIFIED IN THE SWPPP.
3. THE THICKNESS SHALL NOT BE LESS THAN 12 INCHES.
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
8. PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS NECESSARY.
9. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.



STABILIZED CONSTRUCTION ENTRANCE

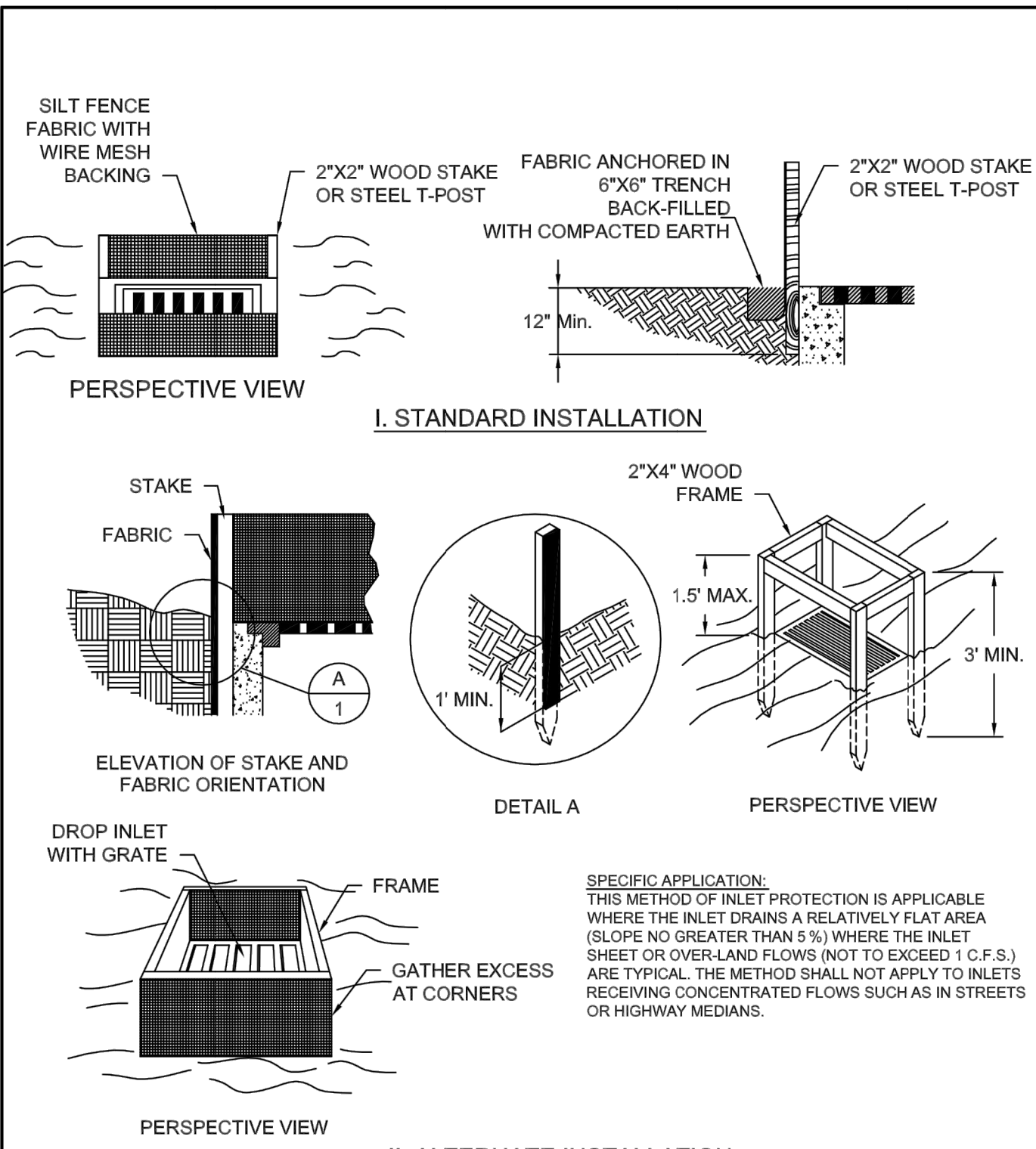
North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.11*
	DATE OCT. '04
	STANDARD DRAWING NO. 1070B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

STABILIZED CONSTRUCTION ENTRANCE

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.11*
	DATE OCT. '04
	STANDARD DRAWING NO. 1070A

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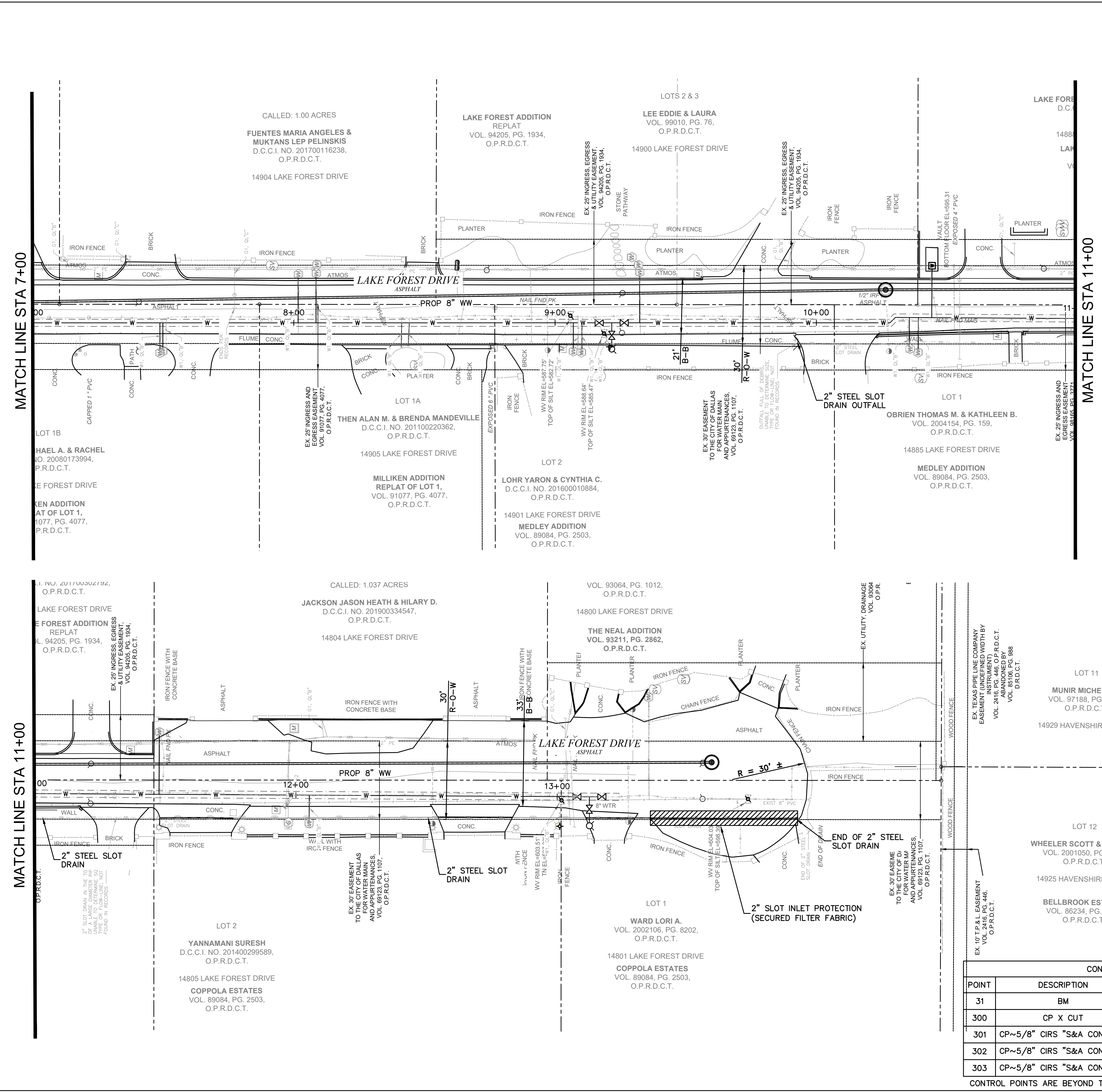
INLET PROTECTION FILTER BARRIER

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.14*
	DATE OCT. '04
	STANDARD DRAWING NO. 1120

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

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 Rodney Prince



LEGEND

- SOD REPLACEMENT
- SECURED FILTER FABRIC
- STABILIZED CONSTRUCTION ENTRANCE
- SLIT FENCE

CAUTION GAS !!!
 EXISTING GAS FACILITIES IN AREA. CONTRACTOR MUST FIELD VERIFY ALL LINES (ACTIVE AND ABANDONED)

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THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

PUBLIC WORKS & ENGINEERING SERVICES	972-450-2871
TEXAS ONE CALL/DIG TESS	1-811-344-8377
ONCOR	1-888-313-6862
AT&T	1-800-331-0500
SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
ATMOS ENERGY	1-888-286-6700
PATRICK MCKENZIE ATMOS EMERGENCY CONTACT	972-360-4428

REV. NO.	DESCRIPTION	CHK. BY	DATE

ADDISON, TEXAS
PUBLIC WORKS & ENGINEERING SERVICES
 LAKE FOREST DRIVE
 WATER LINE UPGRADES AND WASTEWATER IMPROVEMENTS
 PROJECT NO. 2021-04-C

EROSION CONTROL AND SOD PLAN
 (1 OF 2)

CONTROL POINT TABLE

POINT	DESCRIPTION	NORTHING	EASTING	ELEV.
31	BM	7,033,267.08	2,486,667.72	578.67'
300	CP X CUT	7,035,213.36	2,485,235.53	597.71'
301	CP~5/8" CIRS "S&A CONTROL"	7,035,231.48	2,485,967.37	574.83'
302	CP~5/8" CIRS "S&A CONTROL"	7,034,964.93	2,486,188.27	566.26'
303	CP~5/8" CIRS "S&A CONTROL"	7,034,693.15	2,486,197.41	566.89'

CONTROL POINTS ARE BEYOND THE LIMITS DRAWING AND OR NOT SHOWN

DESIGNED BY: DR	DATE: 1/23/2023
DRAWN BY: REP	PROJECT NO: 532401
CHECKED BY: DEG	DRAWING SCALE: 1"=20'
FILE: EROSION CONTROL AND SOD PLAN.dwg	SHEET NO: 20