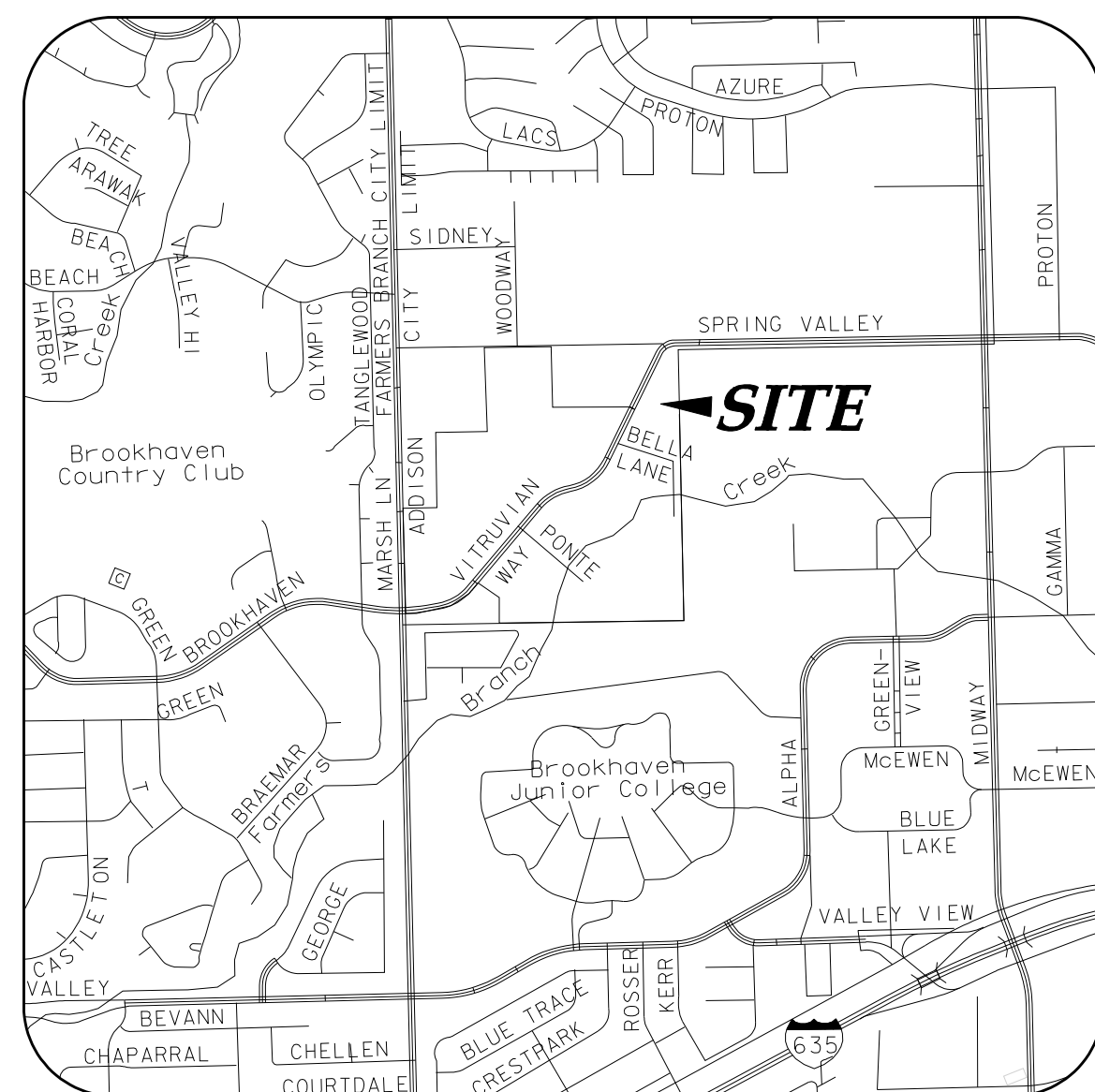


PLANS FOR THE CONSTRUCTION OF
SANITARY SEWER & WATER IMPROVEMENTS
TO SERVE VITRUVIAN TOWNHOMES
FOR
VITRUVIAN PARK PUBLIC INFRASTRUCTURE - PH. 9, BLOCK 701
TOWN OF ADDISON, TEXAS

TOWN PROJECT # 2022-03-C
TOWN BID # 22-114

<p><u>JOE CHOW</u> MAYOR</p> <p>GUILLERMO QUINTANILLA PAUL WALDEN TOM BRAUN LORI WARD KATHRYN WHEELER MARLIN WILLENSEN COUNCIL MEMBERS</p>	<p><u>WESLEY S. PIERSON</u> CITY MANAGER</p> <p><u>SHANNON HICKS</u> DIRECTOR OF PUBLIC WORKS & ENGINEERING</p>
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VICINITY MAP
NOT TO SCALE
(MAPSCO GRID 13 & 14)

SHEET INDEX

1	1	COVER SHEET
2	2	PRELIMINARY PLAT 1 OF 2
3	3	PRELIMINARY PLAT 2 OF 2
4	4	OVERALL LAYOUT & PROJECT CONTROL
5	5	GENERAL CONSTRUCTION NOTES, LEGEND & ABBREVIATIONS
6	6	EROSION & SEDIMENT CONTROL PLAN
7	7	EROSION & SEDIMENT CONTROL DETAILS
8	8	SANITARY SEWER & WATER GENERAL NOTES
9	9	SANITARY SEWER & WATER PLAN - SOUTH
10	10	SANITARY SEWER & WATER PLAN - CENTER
11	11	SANITARY SEWER & WATER PLAN - NORTH
12	12	SANITARY SEWER PROFILES - LINES B2.2 & B2.4
13	13	SANITARY SEWER PROFILES - LINE B4
14	14	SANITARY SEWER DETAILS
15	15	WATER PROFILES - LINE A12 & A13
16	16	WATER PROFILES - LINE D1
17	17	WATER PROFILES - LINE D2
18	18	WATER DETAILS
19	19	WATER DETAILS

CIVIL ENGINEER:
 ICON CONSULTING ENGINEERS, INC.
 2840 W. SOUTHLAKE BLVD., SUITE 110
 SOUTHLAKE, TEXAS 76092
 PH: (817) 552-6210
 CONTACT: BRUCE F. DUNNE, P.E.

SURVEYOR:
 KADLECK & ASSOCIATES,
 A DIVISION OF WESTWOOD
 2740 NORTH DALLAS PKWY., SUITE 280
 PLANO, TEXAS, 75093
 PH: (214) 473-4640
 CONTACT: LYNN KADLECK, R.P.L.S.

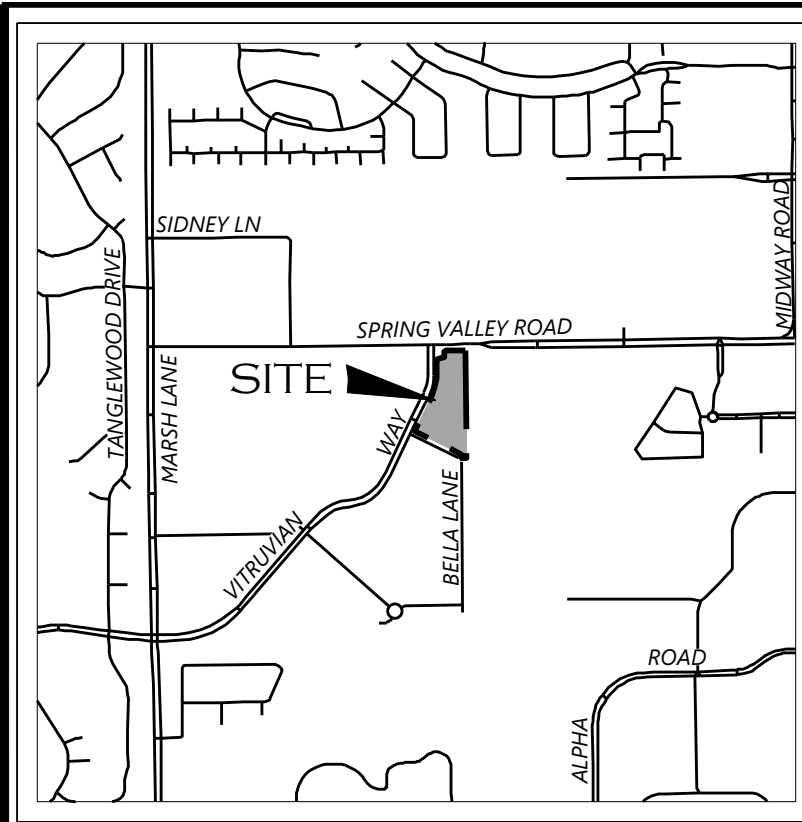
icon Consulting Engineers, Inc.
 Civil Engineers- Designers- Planners
 ENGINEERING FIRM REGISTRATION NUMBER F-9007

APRIL 7, 2023



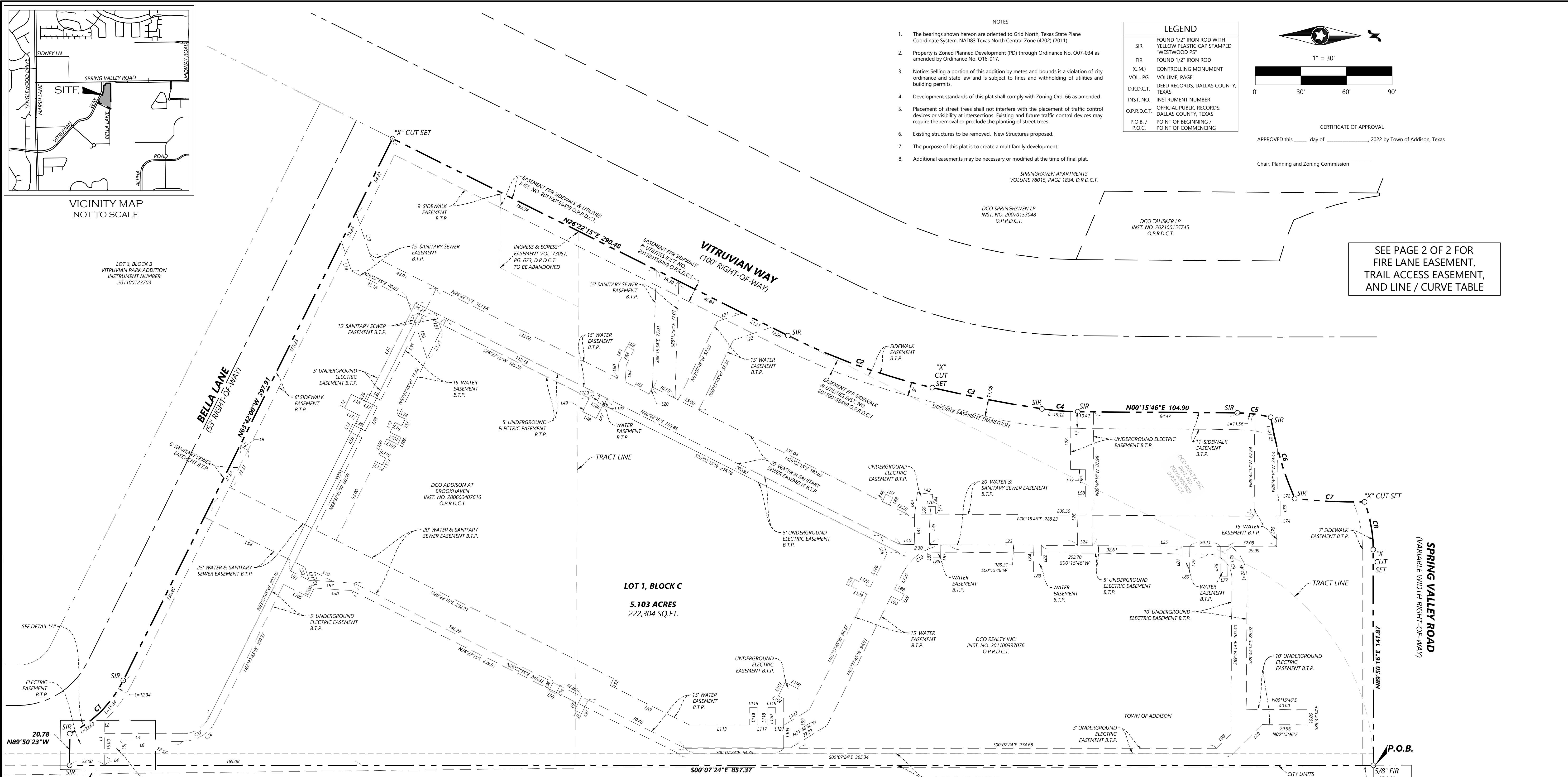
PROJECT NO. 5029-08

NO.	REVISION	BY	DATE
0	FOR CONSTRUCTION	ICE	07/12/22



VICINITY MAP NOT TO SCALE

LOT 3, BLOCK B
VITRUVIAN PARK ADDITION
INSTRUMENT NUMBER
201100123703

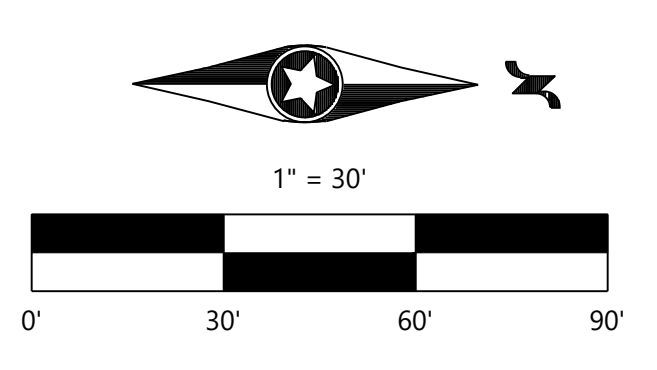


LOT 1, BLOCK C
5.103 ACRES
222,304 SQ.FT.

- NOTES
- The bearings shown hereon are oriented to Grid North, Texas State Plane Coordinate System, NAD83 Texas North Central Zone (4202) (2011).
 - Property is Zoned Planned Development (PD) through Ordinance No. 007-034 as amended by Ordinance No. 016-017.
 - Notice: Selling a portion of this addition by metes and bounds is a violation of city ordinance and state law and is subject to fines and withholding of utilities and building permits.
 - Development standards of this plat shall comply with Zoning Ord. 66 as amended.
 - Placement of street trees shall not interfere with the placement of traffic control devices or visibility at intersections. Existing and future traffic control devices may require the removal or preclude the planting of street trees.
 - Existing structures to be removed. New Structures proposed.
 - The purpose of this plat is to create a multifamily development.
 - Additional easements may be necessary or modified at the time of final plat.

LEGEND

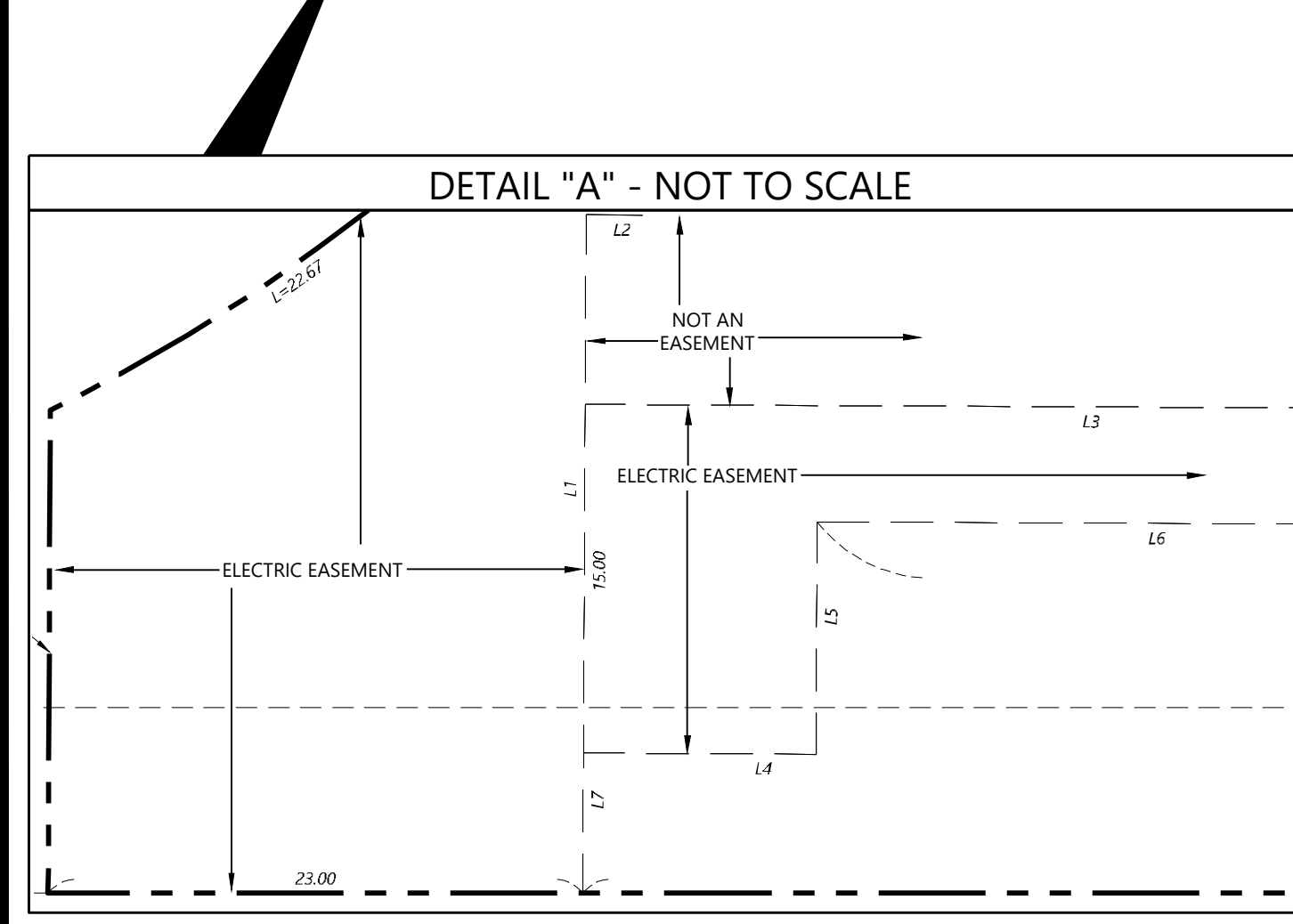
SIR	FOUND 1/2" IRON ROD WITH YELLOW PLASTIC CAP-STAMPED "WESTWOOD PS"
FIR	FOUND 1/2" IRON ROD
(C.M.)	CONTROLLING MONUMENT
VOL., PG.	VOLUME, PAGE
D.R.D.C.T.	DEED RECORDS, DALLAS COUNTY, TEXAS
INST. NO.	INSTRUMENT NUMBER
O.P.R.D.C.T.	OFFICIAL PUBLIC RECORDS, DALLAS COUNTY, TEXAS
P.O.B./	POINT OF BEGINNING /
P.O.C.	POINT OF COMMENCING



CERTIFICATE OF APPROVAL
APPROVED this ___ day of _____, 2022 by Town of Addison, Texas.

Chair, Planning and Zoning Commission

SEE PAGE 2 OF 2 FOR
FIRE LANE EASEMENT,
TRAIL ACCESS EASEMENT,
AND LINE / CURVE TABLE



OWNER'S CERTIFICATE
STATE OF TEXAS }
COUNTY OF DALLAS }

WHEREAS, DCO Addison at Brookhaven and DCO Realty, Inc., are the owners of a tract of land situated in the Noah Good Survey, Abstract No. 520, Town of Addison, Dallas County, Texas, said tract being all of a tract of land conveyed to DCO Addison at Brookhaven by deed recorded in County Clerk Instrument Number 200600407616, Official Public Records of Dallas County, Texas, being all of a tract of land conveyed to DCO Realty, Inc. by deed recorded in County Clerk Instrument Number 201100337076, Official Public Records of Dallas County, Texas, and all of a 0.433 acre tract of land conveyed from Town of Addison to DCO Realty, Inc. by deed recorded in Instrument Number 202100050683, Official Public Records, Dallas County, Texas; and being more particularly described as follows:

BEGINNING at a found 5/8 inch iron rod for the northwest corner of Lot 1, Block A, of the Villas at Parkside Phase I addition, an addition to the City of Addison as recorded in Volume 2003220, Page 5062, Official Public Records, Dallas County, Texas and being in the south right-of-way line of Spring Valley Road (variable width right-of-way);

THENCE South 00 degrees 07 minutes 24 seconds East, along the west line of said Lot 1, Block A, a distance of 857.37 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for corner and being the northeast corner of Bella Lane, as shown on the plat of Vitruvian Park Addition, an addition to the City of Addison as recorded in Instrument Number 201100123703, Official Public Records, Dallas County, Texas;

THENCE departing said west line of Lot 1, Block A and along the north right-of-way line of said Bella Lane, the following three (3) calls and distances:

- North 89 degrees 50 minutes 23 seconds West, a distance of 20.78 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for corner and the beginning of a non-tangent curve to the left;
- Along said non-tangent curve to the left having a central angle of 37 degrees 22 minutes 25 seconds, a radius of 77.50 feet, and an arc length of 50.55 feet (chord bears North 45 degrees 00 minutes 48 seconds West, a distance of 49.66 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" at the end of said curve;
- North 63 degrees 42 minutes 00 seconds West, a distance of 397.91 feet to a set "X" in concrete for corner at the intersection of said north right-of-way line of Bella Lane and the southeast right-of-way line of Vitruvian Way (variable width right-of-way);

THENCE North 26 degrees 22 minutes 15 seconds East departing said north line right-of-way line of Bella Lane and along said southeast right-of-way line of Vitruvian Way, a distance of 290.48 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the beginning of a tangent curve to the left, and being the south corner of said 0.433 acre tract of land;

CONTINUED...

CONTINUED...

THENCE with the southeast right-of-way line of Vitruvian Way and said 0.433 acre tract, the following six (6) calls and distances:

- Along said tangent curve to the left having a central angle of 13 degrees 21 minutes 54 seconds, a radius of 434.00 feet, and an arc length of 101.24 feet (chord bears North 19 degrees 41 minutes 18 seconds East, a distance of 101.01 feet) to a set "X" in concrete for the end of said curve and the beginning of a compound curve to the left;
- Along said compound curve to the left having a central angle of 04 degrees 19 minutes 47 seconds, a radius of 971.08 feet, and an arc length of 73.88 feet (chord bears North 10 degrees 50 minutes 28 seconds East, 73.36 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said curve and the beginning of a compound curve to the left;
- Along said compound curve to the left having a central angle of 08 degrees 29 minutes 14 seconds, a radius of 160.00 feet, and an arc length of 23.70 feet (chord bears North 04 degrees 25 minutes 58 seconds East, 23.68 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said curve;
- North 00 degrees 15 minutes 46 seconds East, a distance of 104.90 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the beginning of a tangent curve to the right;
- Along said tangent curve to the right having a central angle of 14 degrees 07 minutes 20 seconds, a radius of 90.00 feet, and an arc length of 22.18 feet (chord bears North 07 degrees 19 minutes 26 seconds East, 22.13 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said tangent curve to the right, and the beginning of a non-tangent curve to the left;
- Along said non-tangent curve to the left having a central angle of 13 degrees 43 minutes 01 second, a radius of 233.48 feet, and an arc length of 55.90 feet (chord bears North 73 degrees 26 minutes 28 seconds East, 55.76 feet) to a set "X" in concrete for the end of said non-tangent curve to the left, and the beginning of a non-tangent curve to the left; said corner being at the said southeast right-of-way line of Vitruvian Way and the south right-of-way line of said Spring Valley Road;

THENCE along said south right-of-way line of Spring Valley Road, the following three (3) calls and distances:

- Along said non-tangent curve to the left having a central angle of 07 degrees 56 minutes 56 seconds, a radius of 332.30 feet, and an arc length of 46.10 feet (chord bears North 02 degrees 38 minutes 16 seconds East, 46.06 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said non-tangent curve to the left and the beginning of non-tangent curve to the right;
- Along said non-tangent curve to the right having a central angle of 20 degrees 23 minutes 52 seconds, a radius of 90.00 feet, and an arc length of 32.04 feet (chord bears North 19 degrees 20 seconds East, 31.87 feet) to a set "X" in concrete for the end of said non-tangent curve to the right;
- North 89 degrees 50 minutes 16 seconds East, a distance of 141.87 feet to the **POINT-OF-BEGINNING**, containing **222,304 square feet** or **5.103 acres** of land

LOT 1, BLOCK A
VILLAS AT PARKSIDE PHASE I
VOLUME 95174, PAGE 4325

LAKEVIEW AT PARKSIDE PARTNERS, LTD
VOLUME 2003220, PAGE 5062

CITY OF FARMERS BRANCH
VOLUME 74063, PAGE 2159, D.R.D.C.T.

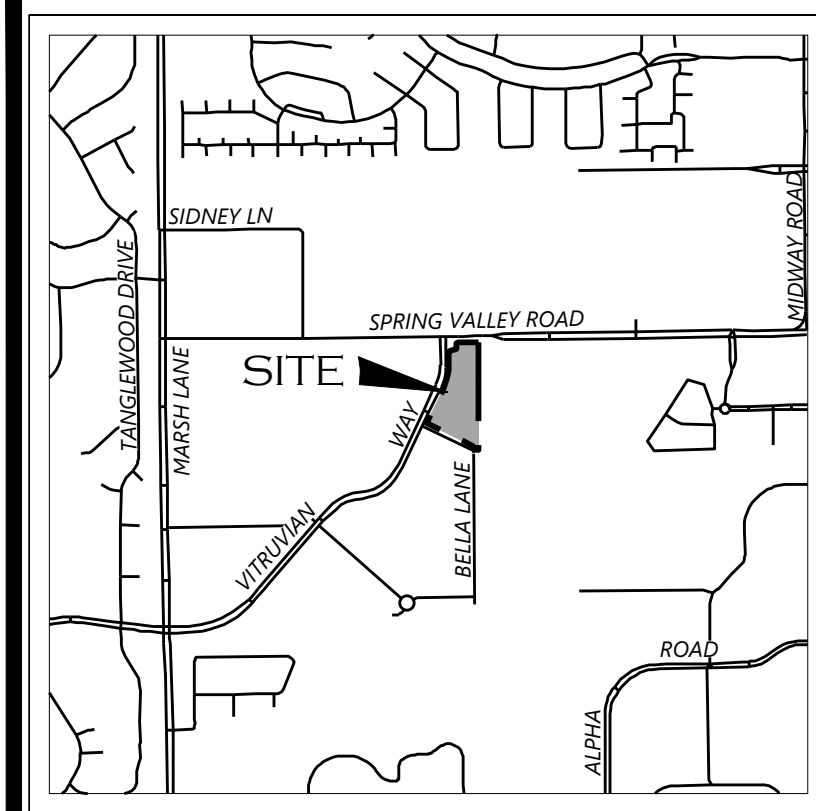
OWNER
DCO ADDISON AT BROOKHAVEN
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

OWNER
DCO REALTY INC.
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

SURVEYOR
Westwood
Phone (214) 473-4640 2901 Dallas Parkway, Suite 400
Toll Free (888) 937-5150 Plano, TX 75093
westwoodps.com

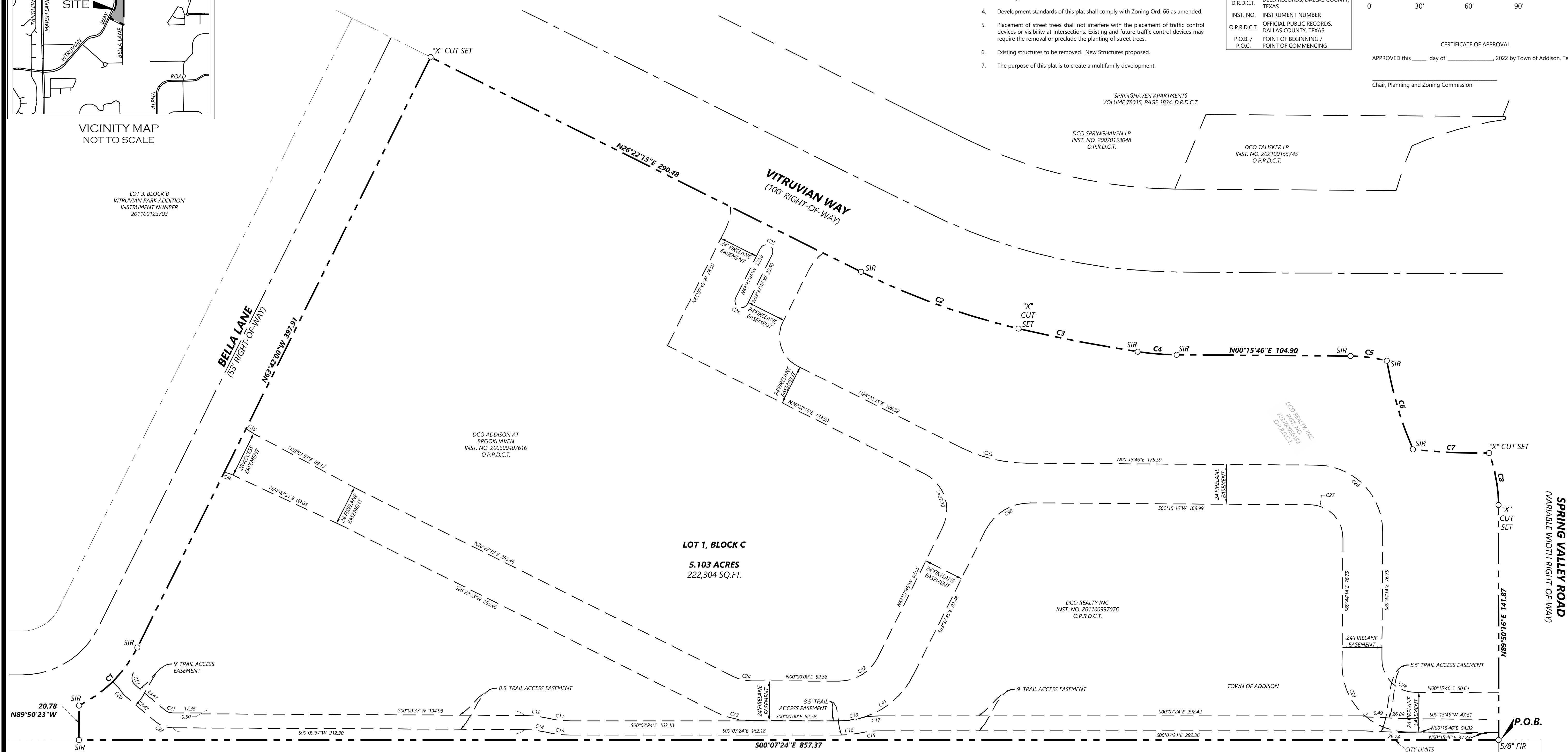
PRELIMINARY PLAT
VITRUVIAN PARK ADDITION
LOT 1, BLOCK C;
5.103 ACRES
OUT OF THE
NOAH GOOD SURVEY, ABSTRACT NO. 520
IN THE
TOWN OF ADDISON
DALLAS COUNTY, TEXAS
TOWN OF ADDISON PROJECT NO. PP2021-01

MAY 03, 2022 JOB NO. 0008445.06 VITRUVIAN PARK ADDITION



VICINITY MAP NOT TO SCALE

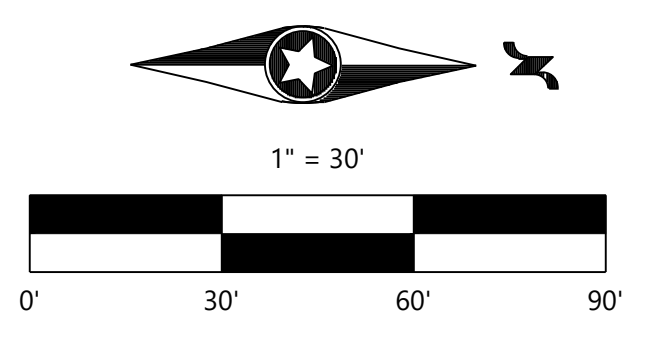
FIRE LANE ACCESS EASEMENT AND TRAIL ACCESS EASEMENT



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LEGEND

SIR	FOUND 1/2" IRON ROD WITH YELLOW PLASTIC CAP-STAMPED "WESTWOOD PS"
FIR	FOUND 1/2" IRON ROD
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P.O.B. / P.O.C.	POINT OF BEGINNING / POINT OF COMMENCING



CERTIFICATE OF APPROVAL
APPROVED this ___ day of _____, 2022 by Town of Addison, Texas.

Chair, Planning and Zoning Commission

Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction			
L1	29.19	S89°50'23"E	L21	17.60	N18°37'45"W	L41	19.28	N89°44'14"W	L61	12.52	N63°32'05"W	L81	17.50	S89°44'14"E	L101	10.00	S63°37'45"E	L121	5.83	S00°07'24"E	L141	5.00	S63°37'45"E	L161	5.00	S63°37'45"E
L2	2.43	N00°09'37"E	L22	26.39	N18°37'45"W	L42	14.94	S82°26'00"E	L62	5.00	S26°27'55"W	L82	17.50	S89°44'14"E	L102	3.81	N26°22'15"E	L122	19.38	N31°48'52"W	L142	11.50	N26°22'15"E	L162	5.00	S00°15'46"W
L3	51.31	N00°09'37"E	L23	97.30	N00°15'46"E	L43	10.00	S07°34'00"W	L63	11.52	N63°32'05"W	L83	5.00	S00°15'46"W	L103	32.93	S89°52'36"W	L123	11.50	N26°22'15"E	L143	5.00	N63°37'45"W	L163	5.00	S00°15'46"W
L4	10.00	N00°09'37"E	L24	10.00	N00°15'46"E	L44	14.31	S82°26'00"E	L64	10.78	N86°07'35"W	L84	17.50	S89°44'14"E	L104	6.88	N63°37'45"W	L124	5.00	N63°37'45"W	L144	5.00	N63°37'45"W	L164	5.00	S00°15'46"W
L5	10.00	S89°50'23"E	L25	121.00	N00°15'46"E	L45	18.64	N89°44'14"W	L65	17.72	N26°22'15"E	L85	8.60	S89°44'14"E	L105	19.00	N26°22'15"E	L125	11.50	N26°22'15"E	L145	5.00	N26°22'15"E	L165	5.00	S00°15'46"W
L6	41.31	N00°09'37"E	L26	32.00	N89°44'14"W	L46	13.32	S71°22'15"W	L66	5.28	N63°37'45"W	L86	5.00	S00°15'46"W	L106	5.00	N63°37'45"W	L126	24.48	N63°37'45"W	L146	5.00	N26°22'15"E	L166	5.00	S00°15'46"W
L7	6.03	S89°50'23"E	L27	10.00	N00°15'46"E	L47	10.00	S63°37'45"E	L67	5.00	S26°22'15"W	L87	8.60	S89°44'14"E	L107	8.00	S26°22'15"W	L127	5.00	S63°37'45"E	L147	5.00	S63°37'45"E	L167	5.00	S00°15'46"W
L8	9.50	N26°22'15"E	L28	38.06	N89°44'14"W	L48	10.00	S26°22'15"W	L68	5.28	N63°37'45"W	L88	7.00	N26°22'15"E	L108	8.00	S26°22'15"W	L128	5.00	S26°22'15"W	L148	5.00	S26°22'15"W	L168	5.00	S00°15'46"W
L9	6.00	S26°18'00"W	L29	26.57	S45°07'24"E	L49	10.00	N63°37'45"W	L69	5.05	N89°44'14"W	L89	5.00	N63°37'45"W	L109	11.50	N63°37'45"W	L129	5.00	S63°37'45"E	L149	5.00	S63°37'45"E	L169	5.00	S00°15'46"W
L10	14.43	N26°22'15"E	L30	24.88	S03°52'15"W	L50	189.39	S63°37'45"E	L70	5.00	S00°15'46"W	L90	7.00	N26°22'15"E	L110	5.00	N26°22'15"E	L130	5.00	S63°37'45"E	L150	5.00	S63°37'45"E	L170	5.00	S00°15'46"W
L11	11.00	S26°22'15"W	L31	4.63	S71°22'15"W	L51	13.48	N26°22'15"E	L71	5.05	N89°44'14"W	L91	10.00	S63°37'45"E	L111	5.00	S63°37'45"E	L131	5.00	S63°37'45"E	L151	5.00	S63°37'45"E	L171	5.00	S00°15'46"W
L12	10.00	N63°37'45"W	L32	5.00	S18°37'45"E	L52	5.00	S63°37'45"E	L72	2.51	N00°17'54"E	L92	5.00	S26°22'15"W	L112	5.00	N26°22'15"E	L132	5.00	N26°22'15"E	L152	5.00	S63°37'45"E	L172	5.00	S00°15'46"W
L13	11.00	N26°22'15"E	L33	9.63	S71°22'15"W	L53	58.38	N26°22'15"E	L73	10.00	S63°37'45"E	L93	10.00	S63°37'45"E	L113	39.41	S00°07'24"E	L133	5.00	S63°37'45"E	L153	5.00	S63°37'45"E	L173	5.00	S00°15'46"W
L14	72.67	N63°37'45"W	L34	5.00	S26°22'15"W	L54	73.83	S26°22'15"W	L74	2.50	N00°17'54"E	L94	6.00	S63°37'45"E	L114	11.60	S89°52'36"W	L134	5.00	S63°37'45"E	L154	5.00	S63°37'45"E	L174	5.00	S00°15'46"W
L15	5.00	S63°37'45"E	L35	82.48	S63°37'45"E	L55	5.00	S63°37'45"E	L75	20.30	N89°44'14"W	L95	5.00	S26°22'15"W	L115	5.00	S00°07'24"E	L135	5.00	S63°37'45"E	L155	5.00	S63°37'45"E	L175	5.00	S00°15'46"W
L16	5.00	N26°22'15"E	L36	5.00	N63°37'45"W	L56	41.40	N71°22'15"E	L76	19.54	S89°44'14"W	L96	6.00	S63°37'45"E	L116	11.60	S89°52'36"W	L136	5.00	S63°37'45"E	L156	5.00	S63°37'45"E	L176	5.00	S00°15'46"W
L17	7.08	N63°37'45"W	L37	9.50	S26°22'15"W	L57	11.40	N71°22'15"E	L77	5.00	S00°15'46"W	L97	29.78	S03°52'15"W	L117	7.00	S00°07'24"E	L137	5.00	S63°37'45"E	L157	5.00	S63°37'45"E	L177	5.00	S00°15'46"W
L18	20.56	S71°22'15"W	L38	17.52	N63°37'45"W	L58	5.00	N00°15'46"E	L78	19.54	S89°44'14"W	L98	13.36	S45°07'24"E	L118	11.60	S89°52'36"W	L138	5.00	S63°37'45"E	L158	5.00	S63°37'45"E	L178	5.00	S00°15'46"W
L19	29.38	S71°22'15"W	L39	9.50	N26°22'15"E	L59	17.98	N89°44'14"W	L79	17.50	S89°44'14"E	L99	39.11	S89°52'36"W	L119	5.00	S00°07'24"E	L139	5.00	S63°37'45"E	L159	5.00	S63°37'45"E	L179	5.00	S00°15'46"W
L20	5.00	S63°37'45"E	L40	9.56	S00°15'46"W	L60	9.71	N86°07'35"W	L80	5.00	S00°15'46"W	L100	10.00	N26°22'15"E	L120	11.60	S89°52'36"W	L140	5.00	S63°37'45"E	L160	5.00	S63°37'45"E	L180	5.00	S00°15'46"W

Curve #	Length	Radius	Delta	Chord Bearing	Chord Length
C1	50.55	77.50	037°22'25"	N 45°00'48" W	49.66
C2	101.24	434.00	013°21'54"	N 19°41'18" E	101.01
C3	73.38	971.08	004°19'47"	N 10°50'28" E	73.36
C4	23.70	160.00	008°29'14"	N 4°25'58" E	23.68
C5	22.18	90.00	014°07'20"	N 7°19'26" E	22.13
C6	55.90	233.48	013°43'01"	N 7°32'28" E	55.76
C7	46.10	332.30	007°56'56"	N 2°38'16" E	46.06
C8	32.04	90.00	020°23'52"	N 79°38'19" E	31.87
C9	25.13	16.00	090°00'00"	S 45°15'46" W	22.63
C10	37.87	36.96	063°53'31"	N 31°41'00" E	35.94
C11	13.50	58.50	013°13'14"	N 6°29'13" E	13.47
C12	15.02	66.50	012°56'13"	N 6°37'43" W	14.98
C13	15.46	67.00	013°13'14"	N 6°29'13" E	15.43
C14	13.10	58.00	012°56'13"	N 6°37'43" W	13.07
C15	12.01	58.00	011°51'56"	N 6°03'22" E	11.99
C16	12.22	59.00	011°51'56"	S 6°03'22" W	12.20
C17	8.51	67.00	007°16'37"	N 3°45'42" E	8.50
C18	15.83	50.50	017°57'30"	S 9°06'09" W	15.76
C19	8.29	5.50	086°20'51"	N 83°08'36" E	7.53

Curve #	Length	Radius	Delta	Chord Bearing	Chord Length
C20	5.83	14.50	023°01'49"	N 51°29'05" E	5.79
C21	5.21	7.50	039°48'36"	N 20°03'55" E	5.11
C22	11.46	16.50	039°48'36"	N 20°03'55" E	11.24
C23	12.57	4.00	180°00'02"	S 26°22'16" W	8.00
C24	12.57	4.00	180°00'02"	S 26°22'14" E	8.00
C25	41.18	90.38	026°06'29"	S 13°19'00" E	40.83
C26	62.83	40.00	090°00'00"	S 45°15'46" W	56.57
C27	31.42	20.00	090°00'00"	S 45°15'46" W	28.28
C28	31.42	20.00	090°00'00"	N 45°15'46" E	28.28
C29	62.83	40.00	090°00'00"	N 45°15'46" E	56.57
C30	33.45	30.00	063°53'31"	N 31°41'00" E	31.75
C31	55.53	50.00	063°37'45"	S 31°48'52" W	52.72
C32	28.87	26.00	063°37'45"	N 31°48'52" W	27.41
C33	23.01	50.00	026°22'15"	S 13°11'08" E	22.81
C34	11.97	26.00	026°22'15"	N 13°11'08" E	11.86
C35	5.58	21.50	014°52'19"	N 35°04'07" E	5.56
C36	5.58	21.50	014°52'20"	N 17°31'53" W	5.57
C37	26.72	24.00	063°47'22"	S 31°44'04" W	25.36
C38	26.72	24.00	063°47'22"	S 31°44'04" W	25.36

OWNER
DCO ADDISON AT BROOKHAVEN
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

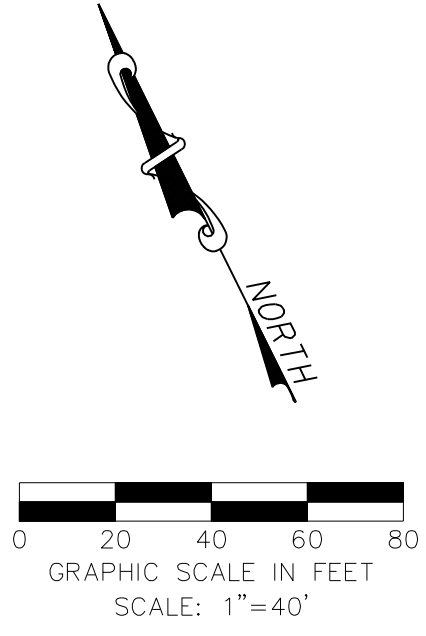
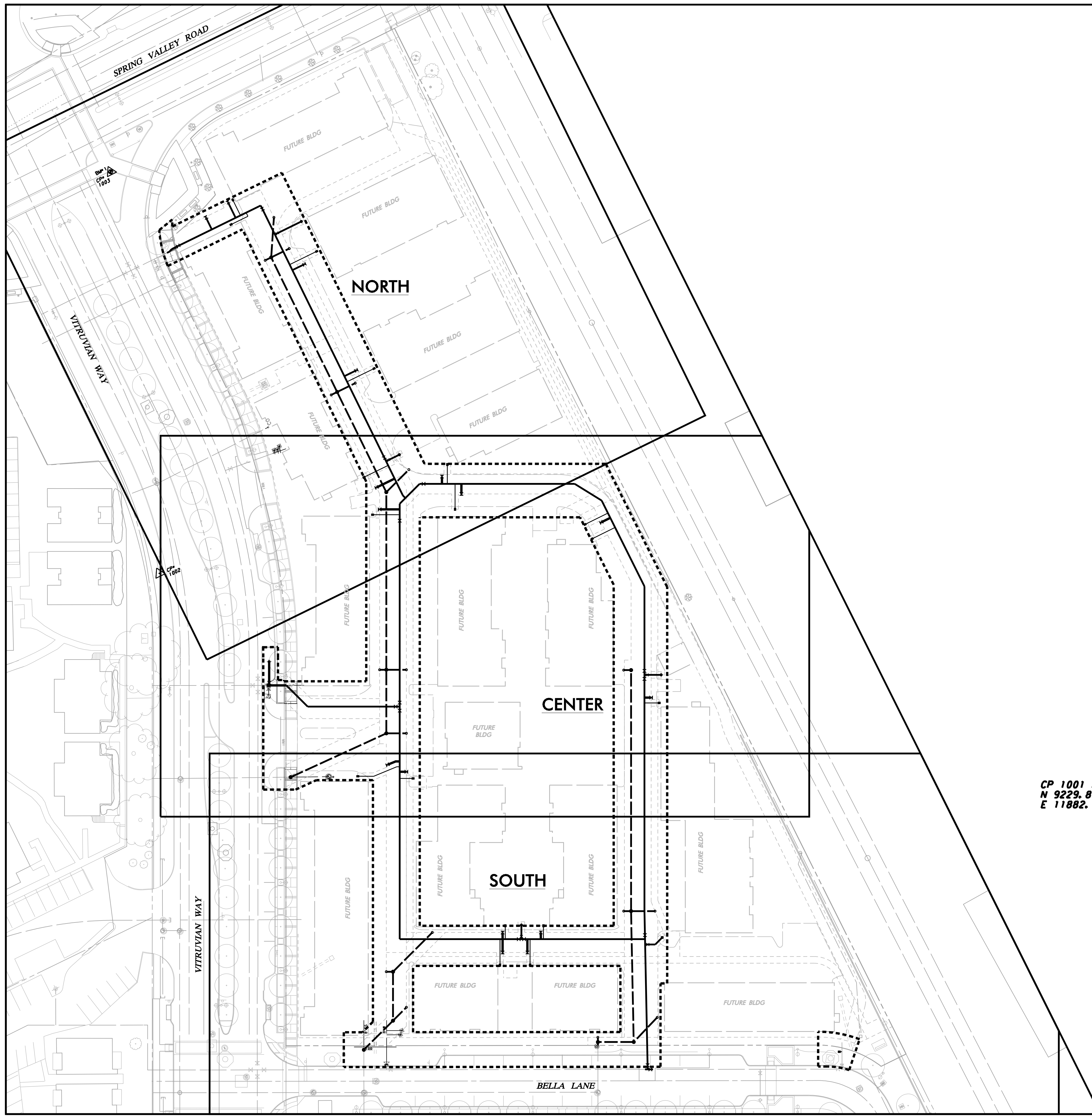
OWNER
DCO REALTY INC.
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

SURVEYOR
Westwood
Westwood Professional Services, Inc.
2901 Dallas Parkway, Suite 400
Plano, TX 75093
westwoodps.com

PRELIMINARY PLAT
VITRUVIAN PARK ADDITION
LOT 1, BLOCK C;
5.103 ACRES
OUT OF THE
NOAH GOOD SURVEY, ABSTRACT NO. 520
IN THE
TOWN OF ADDISON
DALLAS COUNTY, TEXAS
TOWN OF ADDISON PROJECT NO. PP2021-01

Phone (214) 473-4640
Toll Free (888) 937-5150
Westwood Professional Services, Inc.
TEPLS FIRM REGISTRATION NO. 111159
TEPLS FIRM REGISTRATION NO. 10074301

MAY 03, 2022 Job No. 0008445.06 VITRUVIAN PARK ADDITION



LEGEND
 LIMITS OF DISTURBANCE -----

CP 1001 XCUT
 N 9229.84
 E 11882.75

CP 1002 XCUT SO
 N 9627.92
 E 12036.40

CP 1003 XCUT
 N 9913.22
 E 12137.33

BM #1 REF. ELEVATION = 584.37
 "X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
 "X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.



NO.	REVISION	BY	DATE
1	TOA IRRIGATION MAIN RELOCATION BY OTHERS	ICE	07/12/22
0	FOR CONSTRUCTION	ICE	07/12/22

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
 Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
 Engineering Firm Registration Number F-9007

SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS
OVERALL LAYOUT & PROJECT CONTROL

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 7, 2023	AS NOTED		04

SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

GENERAL CONSTRUCTION NOTES

1. STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. THE GOVERNING AUTHORITIES' INFRASTRUCTURE AND WATER DEPARTMENT RECORDS, PLUMBING CODES, AND FIRE DEPARTMENT REGULATIONS SHALL TAKE PRECEDENT FOR ALL PUBLIC IMPROVEMENTS WHERE APPLICABLE. ALL OTHER PUBLIC CONSTRUCTION, NOT REGULATED BY THE GOVERNING AUTHORITY, SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS - NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, LATEST PRINTING AND AMENDMENTS THERETO, EXCEPT AS MODIFIED OR AMENDED BY THE PROJECT CONTRACT DOCUMENTS.

2. EXAMINATION OF SITE: THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INVESTIGATED AND SATISFIED HIMSELF AS TO THE CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT RESTRICTED TO THOSE BEARING UPON TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, ROADS AND UNCERTAINTIES OF WEATHER, OR SIMILAR PHYSICAL CONDITIONS AT THE SITE, CONDITIONS OF THE GROUND, THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING PERFORMANCE OF THE WORK. THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INSPECTED THE SITE OF THE WORK AND IS FAMILIAR WITH THE SOIL CONDITIONS TO BE ENCOUNTERED. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK. THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR ANY CONCLUSIONS OR INTERPRETATIONS MADE BY THE CONTRACTOR ON THE BASIS OF THE INFORMATION MADE AVAILABLE BY THE TOWN OF ADDISON.

3. SUBSURFACE INVESTIGATION: SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS, INCLUDING THE AMOUNT OF ROCK, IF ANY, IS THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO DETERMINE THE NATURE OF THE MATERIAL TO BE ENCOUNTERED. SOME SUBSURFACE EXPLORATION HAS BEEN PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD ON THE PROJECT AND IS PROVIDED FOR INFORMATIONAL PURPOSES. THE TOWN OF ADDISON AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOILS INFORMATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY THE CONTRACTOR, AS IN PROJECTING SOIL BEARING VALUES, ROCK PROFILES, SOILS STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER.

4. TOPOGRAPHIC SURVEY: TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN IS CORRECT, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TO THE SURVEY INFORMATION PROVIDED. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL SURVEY SHALL BE BORNE BY THE CONTRACTOR.

5. COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER, WHICH EXIST OR MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE TOWN OF ADDISON FOR RESOLUTION.

6. PUBLIC CONVENIENCE AND SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

MATERIALS STORED ON THE WORK SITE SHALL BE SO PLACED, AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED, AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITIES. THE MATERIALS EXCAVATED SHALL BE PLACED SO AS NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, GAS VALVES, MANHOLES, AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.

THE TOWN OF ADDISON RESERVES THE RIGHT TO REMEDY ANY NEGLIGENCE ON THE PART OF THE CONTRACTOR WITH REGARDS TO THE PUBLIC CONVENIENCE AND SAFETY WHICH MAY COME TO THE TOWN OF ADDISON'S ATTENTION, AFTER 24 HOURS NOTICE IN WRITING TO THE CONTRACTOR, SAVE IN CASES OF EMERGENCY, WHEN THE TOWN OF ADDISON SHALL HAVE THE RIGHT TO REMEDY ANY NEGLIGENCE WITHOUT NOTICE; AND, IN EITHER CASE, THE COST OF SUCH WORK DONE BY THE TOWN OF ADDISON SHALL BE DEDUCTED FROM THE MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ADDISON AND THE GOVERNING AUTHORITIES WHEN ANY STREET IS TO BE CLOSED OR OBSTRUCTED; SUCH NOTICE SHALL IN THE CASE OF MAJOR THOROUGHFARES OR STREETS UPON WHICH TRANSIT BY THE GOVERNING AUTHORITIES, KEEP ANY STREET OR STREETS IN CONDITION FOR UNOBSTRUCTED USE BY EMERGENCY SERVICES. WHERE THE CONTRACTOR IS REQUIRED TO CONSTRUCT TEMPORARY BRIDGES OR TO MAKE OTHER ARRANGEMENTS FOR CROSSING OVER DITCHES OR STREAMS, HIS RESPONSIBILITY FOR ACCIDENTS SHALL INCLUDE THE ROADWAY APPROACHES AS WELL AS THE STRUCTURES OF SUCH CROSSINGS.

7. STORM WATER POLLUTION PREVENTION PLAN (SWP3): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SWP3 WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SWP3 INCLUDES CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE SWP3) DURING PROJECT CONSTRUCTION.

8. PERMITS AND LICENSES: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHENEVER THE WORK UNDER THIS CONTRACT REQUIRES THE OBTAINING OF PERMITS FROM THE GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE ENGINEER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED.

9. BONDS: PERFORMANCE, PAYMENT AND MAINTENANCE BONDS WILL BE REQUIRED FROM THE CONTRACTOR FOR ALL WORK CONSIDERED TO BE "PUBLIC" IMPROVEMENTS. BONDS SHALL BE IN THE FORM AND IN THE AMOUNTS AS REQUIRED BY THE GOVERNING AUTHORITIES.

10. VENDOR'S CERTIFICATION: ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE A VENDOR'S CERTIFIED TEST REPORT. TEST REPORTS SHALL BE DELIVERED TO THE ENGINEER BEFORE PERMISSION WILL BE GRANTED FOR USE OF THE MATERIAL. ALL VENDOR'S TEST REPORTS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER, AND SHALL BE SUBJECT TO VERIFICATION BY TESTING OF SAMPLES OF MATERIALS AS RECEIVED FOR USE ON THE PROJECT. IN THE EVENT ADDITIONAL TESTS ARE REQUIRED, THEY SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR.

11. TESTING: THE TESTING AND CONTROL OF ALL MATERIALS USED IN THE WORK SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY, EMPLOYED AND PAID DIRECTLY BY THE TOWN OF ADDISON. IN THE EVENT THE RESULTS OF INITIAL TESTING DO NOT COMPLY WITH THE PLANS AND SPECIFICATIONS, SUBSEQUENT TESTS NECESSARY TO DETERMINE THE ACCEPTABILITY OF MATERIALS OR CONSTRUCTION SHALL BE FURNISHED AND PAID BY THE CONTRACTOR AS DIRECTED BY THE TOWN OF ADDISON. PAYMENT WILL BE MADE BY DEDUCTION FROM PAYMENT DUE THE CONTRACTOR.

12. INSPECTION: INSPECTION OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY AND PAID FOR BY THE TOWN OF ADDISON. THE CONTRACTOR SHALL PROVIDE ASSISTANCE BY PROVIDING EXCAVATION, TRENCH SAFETY, OR OTHER WORK NECESSARY TO FACILITATE INSPECTION ACTIVITIES, AND SHALL GIVE SUFFICIENT NOTICE WELL IN ADVANCE OF PENDING CONSTRUCTION ACTIVITIES TO THE TOWN OF ADDISON FOR SCHEDULING OF INSPECTION SERVICES.

13. SHOP DRAWINGS: THE CONTRACTOR SHALL PROVIDE, REVIEW, APPROVE AND SUBMIT ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE GOVERNING AUTHORITIES AND THE PROJECT CONTRACT DOCUMENTS IN ACCORDANCE WITH ITEM 1.28 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS - NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.

14. SURVEYING: ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LAND SURVEYOR TO PREFORM ALL SURVEY, LAYOUT AND MEASUREMENT WORK NECESSARY FOR THE COMPLETION OF THE PROJECT.

15. PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCHMARKS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PUBLIC SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

16. EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES, HOWEVER, THE TOWN OF ADDISON AND ENGINEER ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS, OR TO SHOW THEM IN THEIR EXACT LOCATION. SUCH FAILURE SHALL NOT BE CONSIDERED SUFFICIENT BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION FOR EXTRA WORK OR FOR INCREASING THE PAY QUANTITIES IN ANY MANNER WHATSOEVER, UNLESS THE OBSTRUCTION ENCOUNTERED IS SUCH AS TO REQUIRE CHANGES IN THE LINES OR GRADES, OR REQUIRE THE CONSTRUCTION OF SPECIAL WORK, FOR WHICH PROVISIONS ARE NOT MADE IN THE PLANS.

17. PROTECTION OF EXISTING UTILITIES: AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL SYSTEM (800-248-4545) MUST BE CONTACTED AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

THE LOCATION AND DIMENSIONS SHOWN ON THE PLANS RELATIVE TO EXISTING UTILITIES ARE BASED ON THE BEST RECORDS AND/OR FIELD INFORMATION AVAILABLE AND ARE NOT GUARANTEED BY THE TOWN OF ADDISON OR ENGINEER TO BE ACCURATE AS TO LOCATION AND DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF HIS ACTIVITIES IN ORDER THAT HE MAY NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL EXISTING UTILITIES, SERVICES AND STRUCTURES ENCOUNTERED, WHETHER OR NOT THEY ARE INDICATED ON THE PLANS. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. TO AVOID UNNECESSARY INTERFERENCE OR DELAYS, THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS, REPLACEMENTS AND CONSTRUCTIONS WITH THE APPROPRIATE GOVERNING AUTHORITIES, THEN OBTAIN WRITTEN AUTHORIZATION FROM THE ENGINEER. THE TOWN OF ADDISON WILL NOT BE LIABLE FOR DAMAGES DUE TO DELAY AS A RESULT OF THE ABOVE.

18. DAMAGE TO EXISTING FACILITIES: ALL UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. NOT DESIGNATED TO BE REMOVED BUT THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO A CONDITION AS GOOD AS OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK, SOLELY AT THE EXPENSE OF THE CONTRACTOR.

19. FIRE AND LIFE SAFETY SYSTEMS: CONTRACTOR SHALL NOT REMOVE, DISABLE OR DISRUPT EXISTING FIRE OR LIFE SAFETY SYSTEMS WITHOUT WRITTEN PERMISSION FROM THE GOVERNING AUTHORITY.

20. TRENCH SAFETY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY SYSTEM PLANS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF TEXAS, FOR THE IMPLEMENTATION OF SAFETY CONTROL MEASURES, MEETING THE REQUIREMENTS OF THE GOVERNING AUTHORITIES, THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

21. SAFETY RESTRICTIONS - WORK NEAR HIGH VOLTAGE LINES: THE FOLLOWING PROCEDURES WILL BE FOLLOWED REGARDING THE SUBJECT ITEM ON THIS CONTRACT:

A. A WARNING SIGN NOT LESS THAN FIVE INCHES BY SEVEN INCHES PAINTED YELLOW WITH BLACK LETTERS THAT ARE LEGIBLE AT 12 FEET SHALL BE PLACED INSIDE AND OUTSIDE VEHICLES SUCH AS CRANES, DERRICKS, POWER SHOVELS, DRILLING RIGS, PILE DRIVER, HOISTING EQUIPMENT OR SIMILAR APPARATUS. THE WARNING SIGN SHALL READ AS FOLLOWS: "WARNING - UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN SIX FEET OF HIGH VOLTAGE LINES."

B. EQUIPMENT THAT MAY BE OPERATED WITHIN TEN FEET OF HIGH VOLTAGE LINES SHALL HAVE AN INSULATING CAGE-TYPE OF GUARD ABOUT THE BOOM OR ARM, EXCEPT BACKHOES OR DIPPERS, AND INSULATOR LINKS ON THE LIFT HOOK CONNECTIONS.

C. WHEN NECESSARY TO WORK WITHIN SIX FEET OF HIGH VOLTAGE ELECTRIC LINES, NOTIFY THE POWER COMPANY WHO WILL ERECT TEMPORARY MECHANICAL BARRIERS, DE-ENERGIZE THE LINE OR RAISE OR LOWER THE LINE. THE WORK DONE BY THE POWER COMPANY SHALL BE AT THE EXPENSE OF THE CONTRACTOR. THE NOTIFYING DEPARTMENT SHALL MAINTAIN AN ACCURATE LOG OF ALL SUCH CALLS TO THE POWER COMPANY AND SHALL RECORD ACTION TAKEN IN EACH CASE.

D. THE CONTRACTOR IS REQUIRED TO MAKE ARRANGEMENTS WITH THE POWER COMPANY FOR THE TEMPORARY RELOCATION OR RAISING OF HIGH VOLTAGE LINES AT THE CONTRACTOR'S SOLE COST AND EXPENSE.

E. NO PERSON SHALL WORK WITHIN SIX FEET OF A HIGH VOLTAGE LINE WITHOUT PROTECTION HAVING BEEN TAKEN AS OUTLINED IN PARAGRAPH C. ABOVE.

22. TRAFFIC CONTROL: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND SUBMIT FOR APPROVAL BY THE GOVERNING AUTHORITIES, A TRAFFIC CONTROL PLAN, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS, OUTLINING TRAFFIC MANAGEMENT PROCEDURES TO BE PROVIDED DURING CONSTRUCTION. TRAFFIC CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

A. CONSTRUCTION SIGNING AND BARRICADES SHALL CONFORM WITH THE "2003 TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION.

B. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH BARRICADES, FLARES, FLAGMEN, ETC., FOR THE PROTECTION OF THE PUBLIC, EMPLOYEES AND THE WORK.

C. THE CONTRACTOR SHALL PERFORM HIS WORK IN SUCH A MANNER AS TO CREATE A MINIMUM OF INTERRUPTION TO ALL TRAFFIC ALONG ADJACENT ROADWAYS INCLUDING PEDESTRIAN. TWO WAY TRAFFIC MUST BE MAINTAINED ON ALL ROADWAYS AT ALL TIMES THROUGHOUT CONSTRUCTION UNLESS WRITTEN PERMISSION IS GRANTED BY THE GOVERNING AUTHORITIES.

D. ALL SIGNAGE, MARKINGS, LIGHTING, BARRICADES, FLAGMEN AND OTHER DEVICES AND PERSONNEL REQUIRED FOR TRAFFIC CONTROL DURING CONSTRUCTION OF THE PROJECT WILL BE INCLUDED IN THE CONTRACT AMOUNT.

E. ALL TRAFFIC CONTROL DEVICES USED DURING NIGHTTIME SHALL BE REFLECTORIZED, ILLUMINATED FROM WITHIN OR EXTERNALLY ILLUMINATED.

F. THE CONTRACTOR SHALL NOT REMOVE ANY REGULATORY SIGN, INSTRUCTIONAL SIGN, WARNING SIGN, STREET NAME SIGN OR ANY SIGNAL, WHICH CURRENTLY EXISTS, WITHOUT THE CONSENT OF THE GOVERNING AUTHORITIES.

G. THE CONTRACTOR SHALL MAINTAIN AND REPLACE WHERE NECESSARY ALL SIGNS, LIGHTS, MARKINGS AND TEMPORARY PAVEMENT THROUGHOUT THE CONSTRUCTION PERIOD.

H. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL MEASURES AT THE END OF CONSTRUCTION AND RESTORE UNIMPROVED PAVEMENT AND OTHER DISTURBED AREAS TO THEIR ORIGINAL CONDITION.

23. ACCESS TO ADJACENT PROPERTIES: ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE GOVERNING AUTHORITIES. THIS INCLUDES VEHICULAR AND PEDESTRIAN ACCESS.

24. ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL PRIVATE HALL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE TOWN OF ADDISON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ALL HALL ROADS, ACCESS ROADS, STAGING AREAS AND STORAGE AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT AT THE TIME THE CONTRACTOR COMMENCES WORK ON THE PROJECT.

25. PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS, WHICH ARE APPROVED BY THE TOWN OF ADDISON. DURING THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH THE PRESENT ZONING REQUIREMENTS OF THE GOVERNING AUTHORITIES IN THE USE OF VACANT PROPERTY FOR STORAGE PURPOSES. THE CONTRACTOR SHALL ALSO PROVIDE ADEQUATE BARRICADES, MARKERS AND LIGHTS TO PROTECT THE TOWN OF ADDISON, THE GOVERNING AUTHORITIES, THE PUBLIC AND THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.

26. WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT. LANDSCAPE SHALL NOT BE INSTALLED UNTIL THE AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL.

27. TEMPORARY ELECTRIC AND COMMUNICATIONS FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR INSTALLATION AND PURCHASING OF TEMPORARY ELECTRIC AND COMMUNICATIONS SERVICES FROM THE GOVERNING AUTHORITIES FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THESE SERVICES SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

28. FENCES: ALL FENCES ENCOUNTERED AND REMOVED DURING CONSTRUCTION, EXCEPT THOSE DESIGNATED TO BE REMOVED OR RELOCATED, SHALL BE RESTORED TO THE ORIGINAL OR BETTER THAN CONDITION UPON COMPLETION OF THE PROJECT. WHERE WIRE FENCING, EITHER WIRE MESH OR BARBED WIRE, IS TO BE CROSSED, THE CONTRACTOR SHALL SET CROSS-BRACED POSTS ON EITHER SIDE OF THE CROSSING. TEMPORARY FENCING SHALL BE ERECTED IN PLACE OF THE FENCING REMOVED WHENEVER THE WORK IS NOT IN PROGRESS, AND WHEN THE SITE IS VACATED OVERNIGHT AND/OR AT ALL TIMES TO PREVENT PERSONS AND/OR LIVESTOCK FROM ENTERING THE CONSTRUCTION AREA. THE COST OF FENCE REMOVAL, TEMPORARY CLOSURES AND REPLACEMENT SHALL BE INCLUDED IN THE CONTRACT.

29. DRAINAGE CHANNELS: WHERE EXISTING DRAINAGE CHANNELS ARE TEMPORARILY DISTURBED OR BLOCKED DURING CONSTRUCTION, A SUITABLE BYPASS SHALL BE PROVIDED AND THE ORIGINAL CHANNEL RESTORED TO THE ORIGINAL CONDITION, GRADE AND CROSS SECTION AFTER CONSTRUCTION IS COMPLETED.

30. COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THE PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.

31. CONDITION OF SITE DURING CONSTRUCTION: DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE SAME FROM ANY PORTION OF THE SITE. IF, IN THE OPINION OF THE TOWN OF ADDISON, SUCH MATERIAL, DEBRIS OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE, IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR UNDER HIS CONTRACT, OR WHERE SUFFICIENT CONTRACT FUNDS ARE UNAVAILABLE FOR THIS PURPOSE, THE CONTRACTOR OR HIS SURETY SHALL REIMBURSE THE TOWN OF ADDISON FOR ALL SUCH COSTS.

32. EXISTING ROADWAYS & MEDIANS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. ALL COSTS ASSOCIATED WITH MAINTAINING THE CLEANLINESS OF EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO MEDIANS/MEDIAN LANDSCAPING FROM DELIVERY VEHICLES, UTILITY EXCAVATIONS, ETC.

33. DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO CONTROL DUST ON THE PROJECT SITE BY SPRINKLING OF WATER, OR ANY OTHER METHODS APPROVED BY THE GOVERNING AUTHORITIES, AND SHALL PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED TO PREVENT DUST FROM BECOMING A NUISANCE TO THE ADJACENT PROPERTIES.

34. CLEAN-UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE TOWN OF ADDISON. THIS CLEAN UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.

35. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK WHICH HAS BEEN REJECTED OR CONDEMNED SHALL BE REPAIRED, OR IF IT CANNOT BE REPAIRED SATISFACTORILY, IT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY WITH THE GRADES SHOWN ON THE DRAWINGS OR AS PROVIDED, WORK DONE WITHOUT REQUIRED INSPECTION, OR ANY EXTRA OR UNCLASSIFIED WORK DONE WITHOUT WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT THE CONTRACTOR'S RISK, AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE TOWN OF ADDISON MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED, UNAUTHORIZED OR CONDEMNED WORK OR MATERIALS IMMEDIATELY AFTER RECEIVING NOTICE FROM THE TOWN OF ADDISON, THE TOWN OF ADDISON WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE DEFECTIVE WORK TO BE REMOVED OR REMOVED AND REPLACED, OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF FROM ANY MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR.

36. DISPOSITION AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS: ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO EXCESS MATERIAL AND UNSUITABLE MATERIALS SUCH AS LARGE ROCKS, REFUSE, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.

37. SODDING: THE CONTRACTOR SHALL PROVIDE SODDING, WATERING, FERTILIZING AND REQUIRED MAINTENANCE FOR THE GRASSING OF ALL UNPAVED AREAS OF DEDICATED RIGHT-OF-WAY, EASEMENTS, AND ALL OTHER DISTURBED AREAS OF CONSTRUCTION FOR THE PROJECT. SODDING SHALL ALSO BE PROVIDED IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN IN ORDER TO ESTABLISH A GRASS COVER ON DISTURBED AREAS SUBJECTED TO THE EROSION OF THE SOIL SURFACE.

38. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY THE PROJECT CONTRACT DOCUMENTS. THESE RECORD PRINTS WILL BE REVIEWED BY THE ENGINEER EACH MONTH PRIOR TO THE PRELIMINARY REVIEW OF CONTRACTOR'S REQUEST FOR PAYMENT. IF THE DRAWINGS ARE NOT COMPLETE, ACCURATE AND UP-TO-DATE, THE ENGINEER WILL NOT ACCEPT THE PAYMENT REQUEST. THE COMPLETED SET OF "RECORD" DRAWINGS MUST BE DELIVERED TO THE ENGINEER BEFORE REQUESTING FINAL PAYMENT.

ABBREVIATIONS

APPROX	APPROXIMATELY	G	GAS	R	RADIUS
ASPH	ASPHALT	GI	GRATE INLET	RGB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	GM	GAS METER	RCI	RECESSED CURB INLET
B-B	BACK TO BACK OF CURB	HDPE	HIGH DENSITY POLYETHYLENE PIPE	RCP	REINFORCED CONCRETE PIPE
BM	BENCHMARK	HDWL	HEADWALL	RCCP	REINFORCED CONCRETE CYLINDRICAL PIPE
BW	BOTTOM OF WALL	HMAC	HOT MIX ASPHALTIC CONCRETE	REC	RECESSED
CATV	CABLE TV	HORIZ	HORIZONTAL	REINF	REINFORCED
CFS	CUBIC FEET PER SECOND	HP	HIGH POINT	RL	RIDGE LINE
CI	CURB INLET	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	ROW	RIGHT OF WAY
CMP	CORRUGATED METAL PIPE	IRR	IRRIGATION	RT	RIGHT
CO	CLEANOUT	JB	JUNCTION BOX	SF	SQUARE FEET
CONC	CONCRETE	JT	JOINT	SD	STORM DRAIN
CONST	CONSTRUCT	LF	LINEAR FEET	SO	SQUARE
DCO	DOUBLE CLEANOUT	LP	LOW POINT	SS	SANITARY SEWER
DIA	DIAMETER	LT	LEFT	STA	STATION
DIP	DUCTILE IRON PIPE	MH	MANHOLE	SY	SQUARE YARD
DW	DOMESTIC WATER	N/A	NOT APPLICABLE	T	TELEPHONE
EL	ELEVATION	NG	NATURAL GROUND (EXISTING)	TC	TOP OF CURB
EMH	ELECTRIC MANHOLE	PC	POINT OF CURVATURE	TDUCT	TOP OF DUCT
EP	EDGE OF PAVEMENT	PCC	POINT OF COMPOUND CURVATURE	TG	TOP OF GROUND
EX	EXISTING	PI	POINT OF INTERSECTION	TMH	TELEPHONE MANHOLE
FC	FACE OF CURB	PIV	POST INDICATOR VALVE	TOS	TOP OF BANK
F-F	FACE TO FACE OF CURB	PL	PROPERTY LINE	TOB	TOE OF SLOPE
FFE	FINISHED FLOOR ELEVATION	PP	POWER POLE	TP	TOP OF PAVEMENT
FH	FIRE HYDRANT	PRC	POINT OF REVERSE CURVATURE	TIPIPE	TOP OF PIPE
FM	FORCE MAIN	PR	PROPOSED	TW	TOP OF WALL
FO	FIBER OPTICS	PT	POINT OF TANGENCY	TY	TYPICAL
FP	FINISHED PAD	PVC	POLYVINYL CHLORIDE PIPE	UGE	UNDERGROUND ELECTRIC
FPS	FEET PER SECOND	PWMT	PAVEMENT	VCP	VITRIFIED CLAY PIPE
FL	FLOW LINE	OC	ON CENTER EACH WAY	W	WATER
FUT	FUTURE	OHE	OVERHEAD ELECTRIC	WV	WATER VALVE
FW	FIRE WATER				

LEGEND

	EXISTING	PROPOSED	FUTURE		EXISTING	PROPOSED	FUTURE		EXISTING	PROPOSED	FUTURE
PROPERTY LINE			N/A	SANITARY SEWER LINE	8"SS	8"SS	8"SS	ELECTRIC TRANSFORMER	□	□	N/A
BUILDING				SANITARY SEWER MANHOLE	SSMH	SSMH		GAS METER	□	□	N/A
FINISH FLOOR ELEVATION	FFE=650.00	FFE=650.00	N/A	CLEANOUT	CO	CO		GAS LINE	G	G	N/A
SPOT ELEVATION	650.50	650.50	N/A	LIGHT POLE	*	*	N/A	AIR CONDITIONING UNIT	⊗	⊗	N/A
CURB				POWER POLE	⊙	⊙	N/A				
ASPHALT PAVEMENT			N/A	DOWN GUY	←	←	N/A				
RIDGE LINE	N/A	RL	N/A	SIGN	+	+	N/A				
SWALE OR VALLEY GUTTER			N/A	ACCESSIBLE PARKING	♿	♿	N/A				
CONTOUR LINE	675	675	674	RETAINING WALL			N/A				
STORM DRAIN	21"SD	21"SD		WOOD FENCE			N/A				
STORM DRAIN MANHOLE				SCREEN WALL FENCE			N/A				
CURB INLET				CHAIN LINK FENCE			N/A				
RECESSED CURB INLET				WIRE FENCE	×	×	N/A				
GRATE INLET			N/A	TREE	⊙	N/A	N/A				
WATER LINE	8"W	8"W	8"W	OVERHEAD WRES	OHW	N/A	N/A				
FIRE HYDRANT			N/A	OVERHEAD ELECTRIC LINE	OHE	OHE	N/A				
WATER VALVE			N/A	OVERHEAD TELEPHONE LINE	OHT	OHT	N/A				
WATER METER BOX			N/A	UNDERGROUND ELECTRIC LINE	UGE	UGE	N/A				
IRRIGATION METER	N/A	□	N/A	UNDERGROUND TELEPHONE LINE	UGT	UGT	N/A				
				UNDERGROUND CABLE LINE	CATV	CATV	N/A				
				ELECTRIC METER	EM	EM	N/A				



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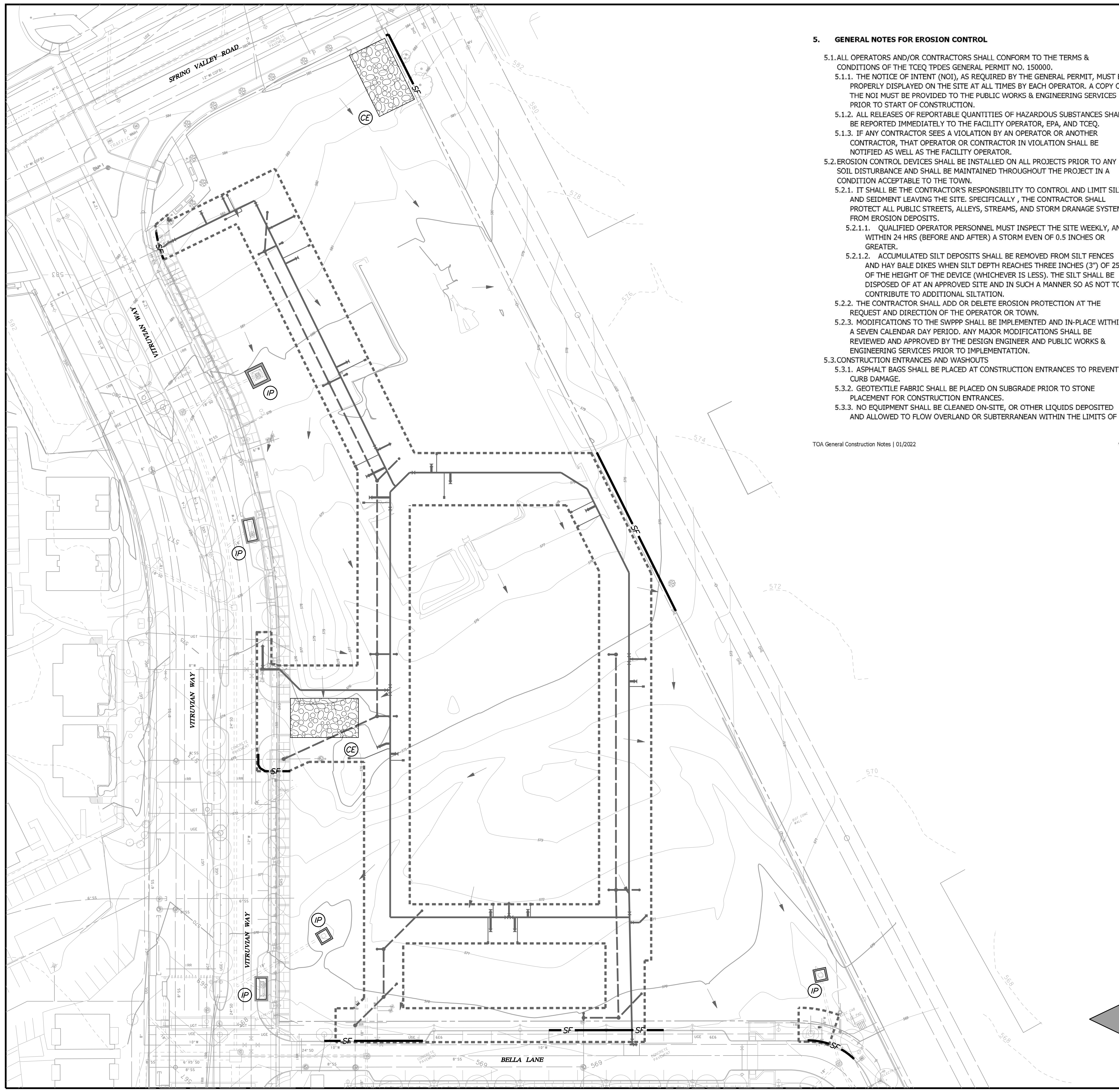
SANITARY SEWER & WATER IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

GENERAL CONSTRUCTION NOTES, LEGEND & ABBREVIATIONS

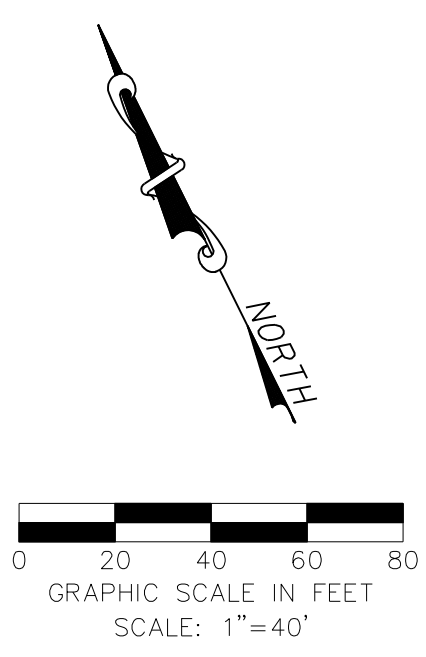
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5. GENERAL NOTES FOR EROSION CONTROL

- 5.1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS & CONDITIONS OF THE TCEQ TPDES GENERAL PERMIT NO. 150000.
- 5.1.1. 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.
- 5.1.2. ALL RELEASES OF REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA, AND TCEQ.
- 5.1.3. 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.
- 5.2. 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.
- 5.2.1. 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.
 - 5.2.1.1. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE WEEKLY, AND WITHIN 24 HRS (BEFORE AND AFTER) A STORM EVEN OF 0.5 INCHES OR GREATER.
 - 5.2.1.2. 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.
- 5.2.2. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
- 5.2.3. 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.
- 5.3. CONSTRUCTION ENTRANCES AND WASHOUTS
 - 5.3.1. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE.
 - 5.3.2. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.
 - 5.3.3. 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.
- 5.4. WASTE DISPOSAL
 - 5.4.1. 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.
 - 5.4.2. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- 5.5. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING, AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUND COVER 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.
- 5.6. SILT FENCE NOTES.
 - 5.6.1. 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.
 - 5.6.2. 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.
 - 5.6.2.1. 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.
 - 5.6.2.2. 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.
 - 5.6.3. 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.
 - 5.6.4. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



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LEGEND

- LIMITS OF DISTURBANCE
- INLET PROTECTION
- FINISHED SLOPE
- SPOT ELEVATION (TOP OF GROUND/PAVEMENT)
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE

NOTE: THIS AREA IS HIGHLY SENSITIVE TO EROSION AND ALL REQUIRED PRECAUTIONS, SHOWN OR NOT SHOWN, MUST BE STRICTLY ADHERED TO AND MAINTAINED AT ALL TIMES

BM #1 REF. ELEVATION = 584.37
 "X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
 "X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.



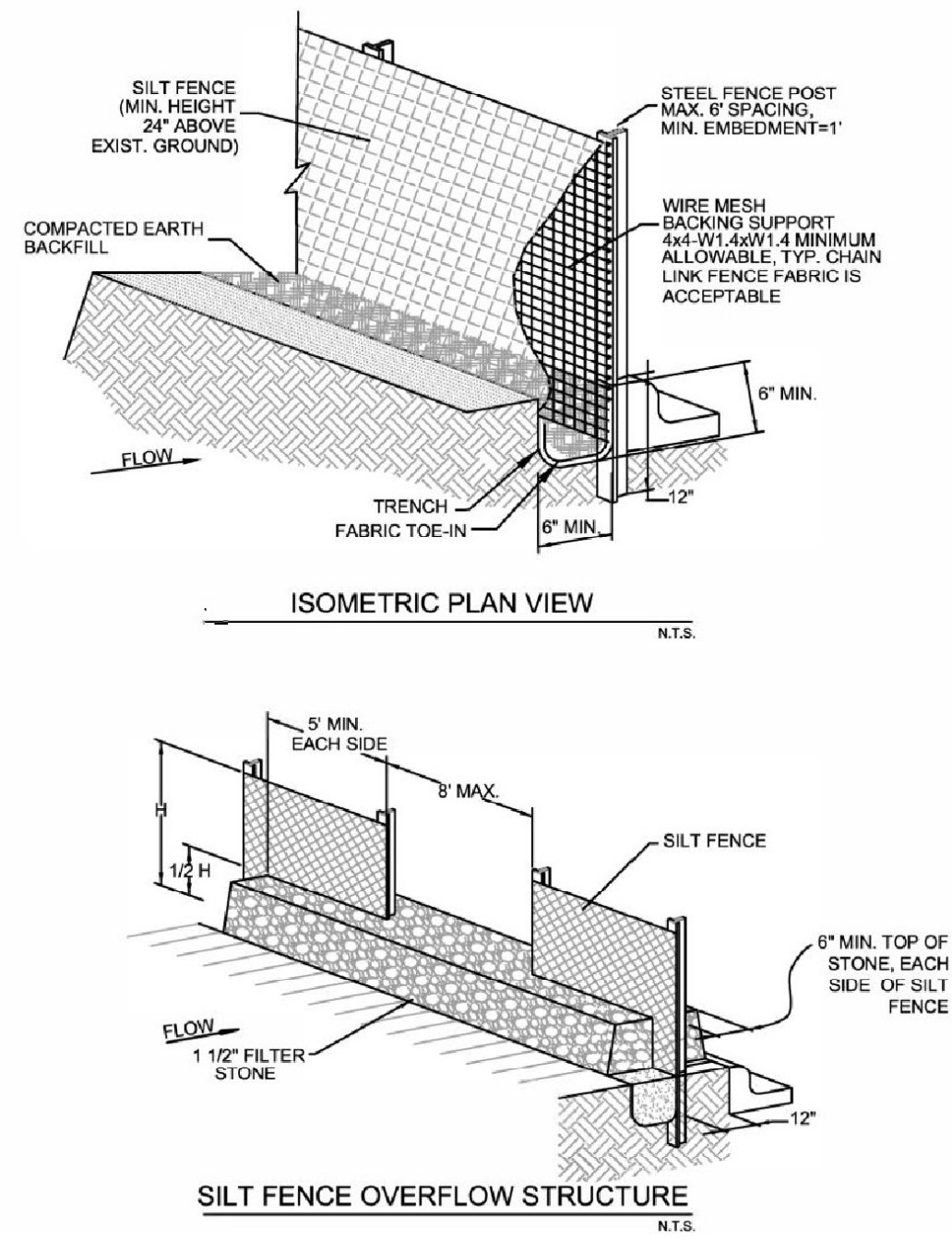
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
EROISION & SEDIMENT CONTROL PLAN

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



SILT FENCE GENERAL NOTES:

- DESIGN SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE OVERFLOW STRUCTURES SHALL BE INSTALLED. OVERFLOW STRUCTURES ARE REQUIRED AT ALL LOW POINTS AND AT A SPACING OF APPROXIMATELY 300 FEET WHERE NO LOW POINT IS APPARENT.
- DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE SILT FENCE IS TO BE TURNED UPSLOPE AT THE ENDS. UPSLOPE LENGTHS SHALL BE A MINIMUM OF 10 FEET.
- POST 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.
- 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.
- 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.
- 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.
- INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- 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.
- SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.5.

Revised 2018

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.11
- THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
- STONE SHALL BE 3 TO 5 INCH DIAMETER COURSE AGGREGATE. NO CRUSHED PORTLAND CEMENT CONCRETE ALLOWED.
- LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 50 FEET.
- THE WIDTH SHALL BE NO LESS THAN 20' FOR SITES LESS THAN 5 AC. AND 30' FOR SITES GREATER THAN 5 AC. AT ALL POINTS OF INGRESS OR EGRESS.
- 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.
- 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.
- THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- INSPECTION SHALL BE SPECIFIED IN THE SWPPP.

Revised 2018

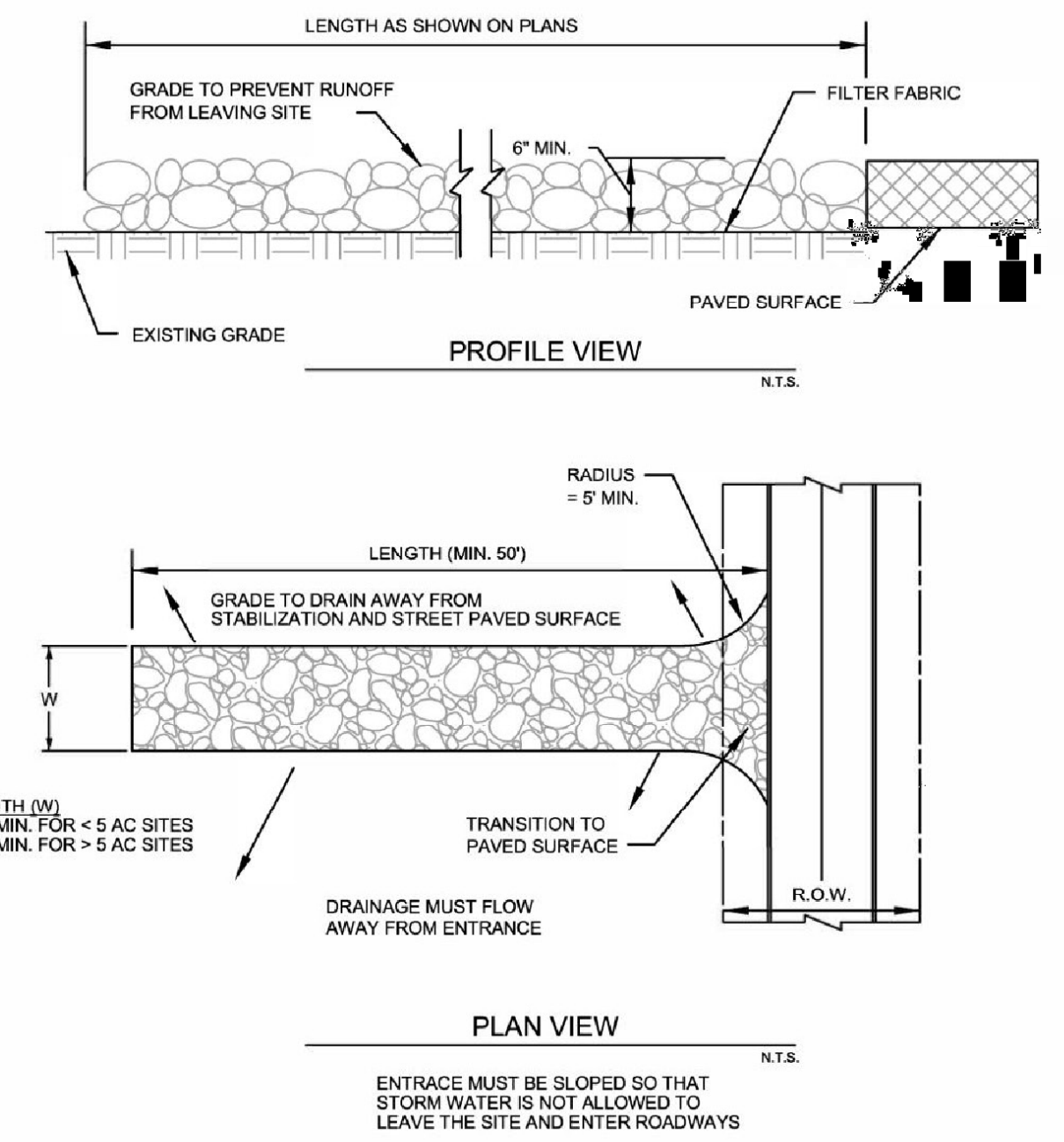
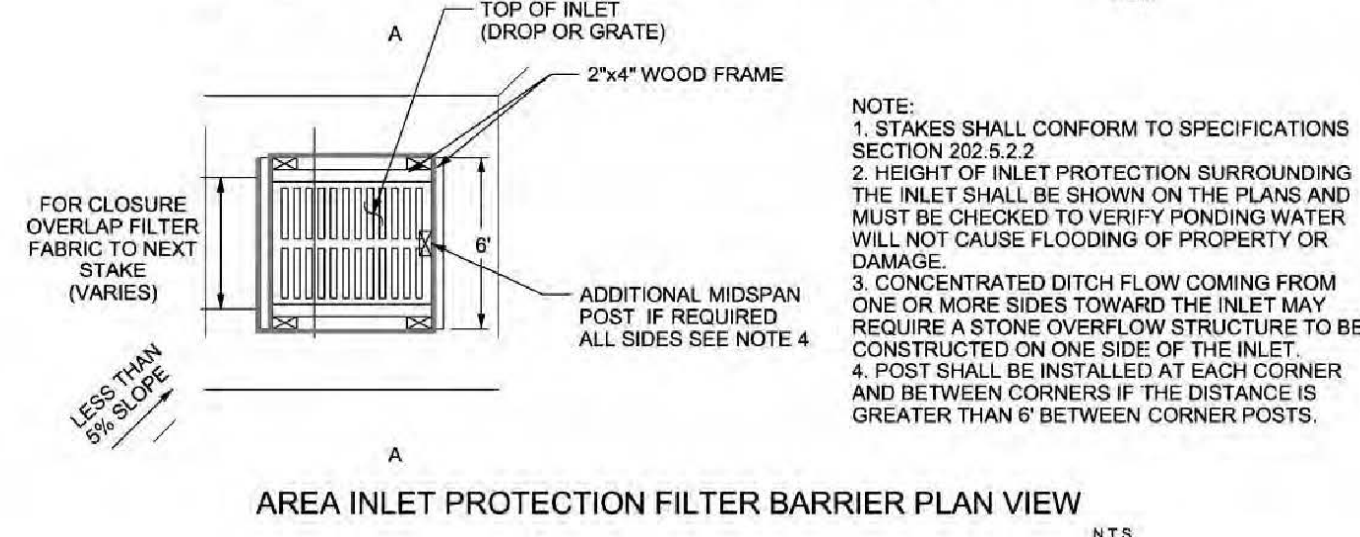
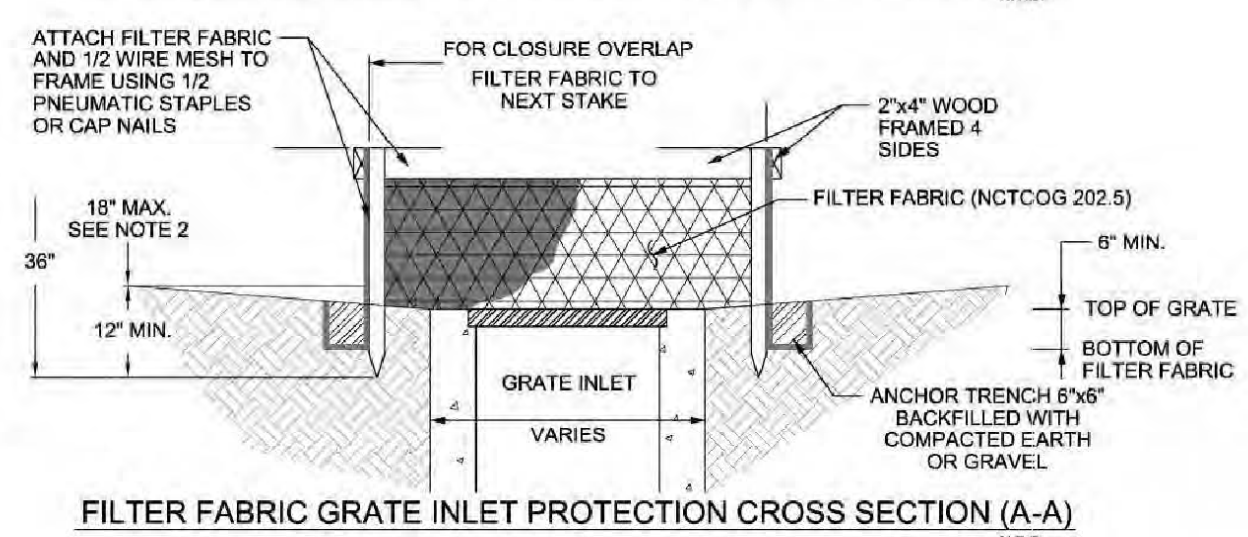
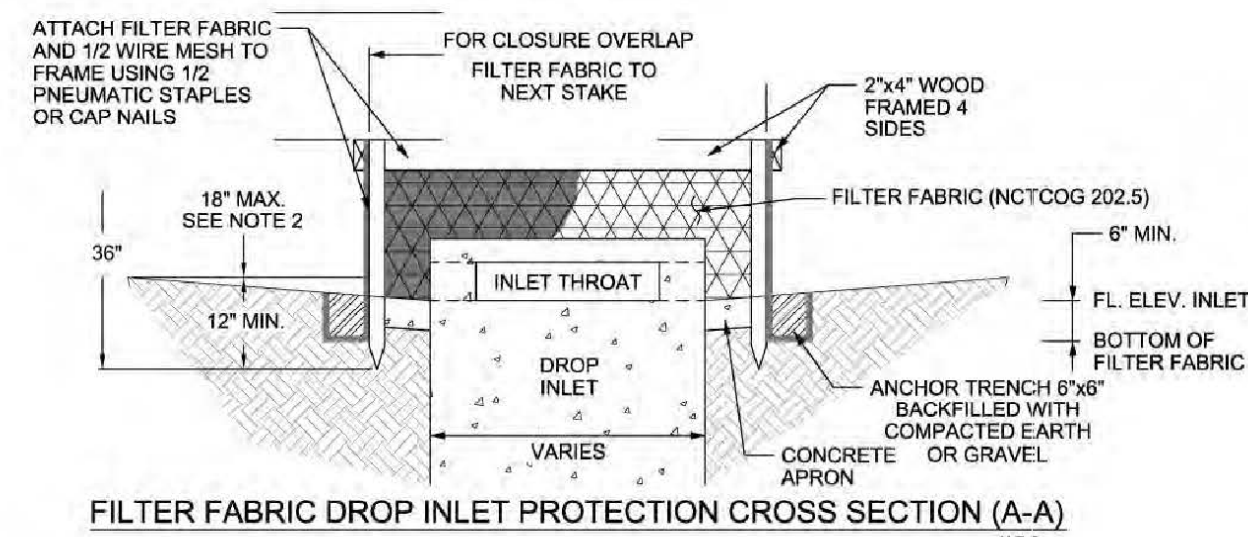


Figure 3.30 Schematics of Silt Fence

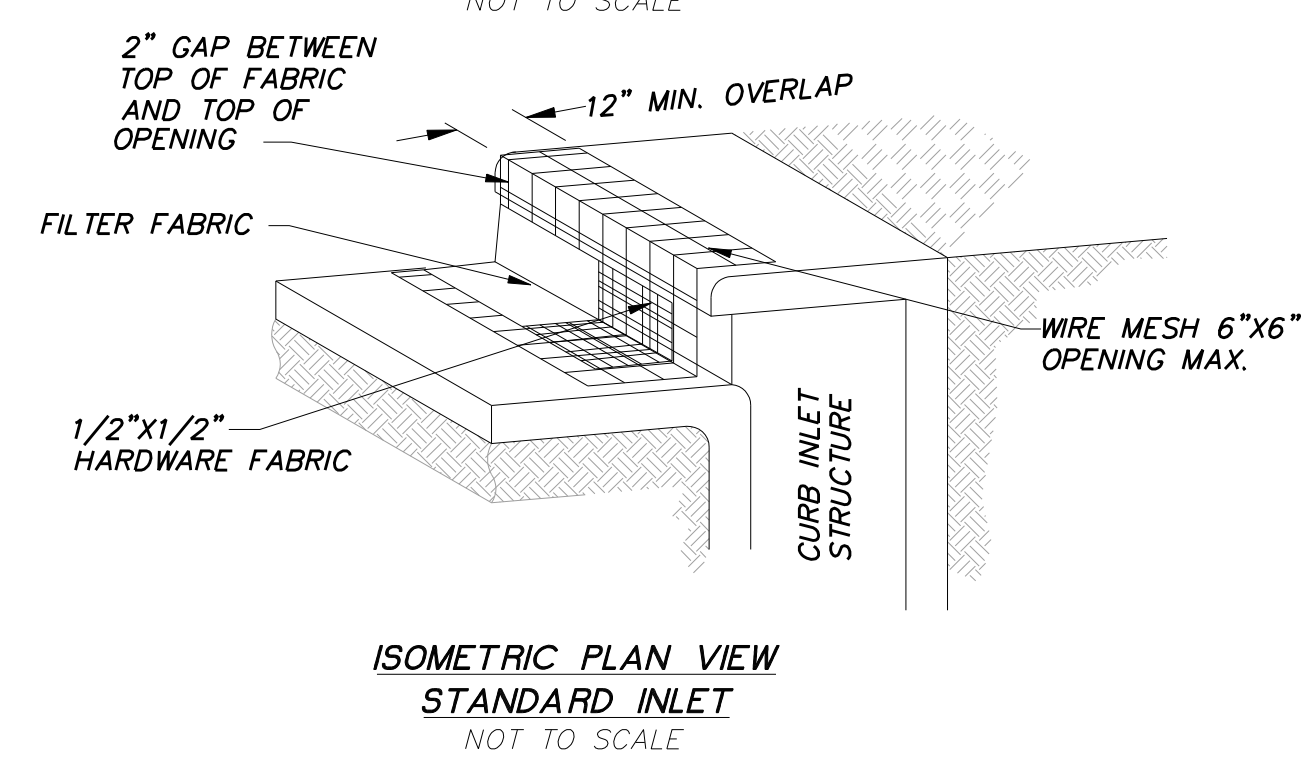
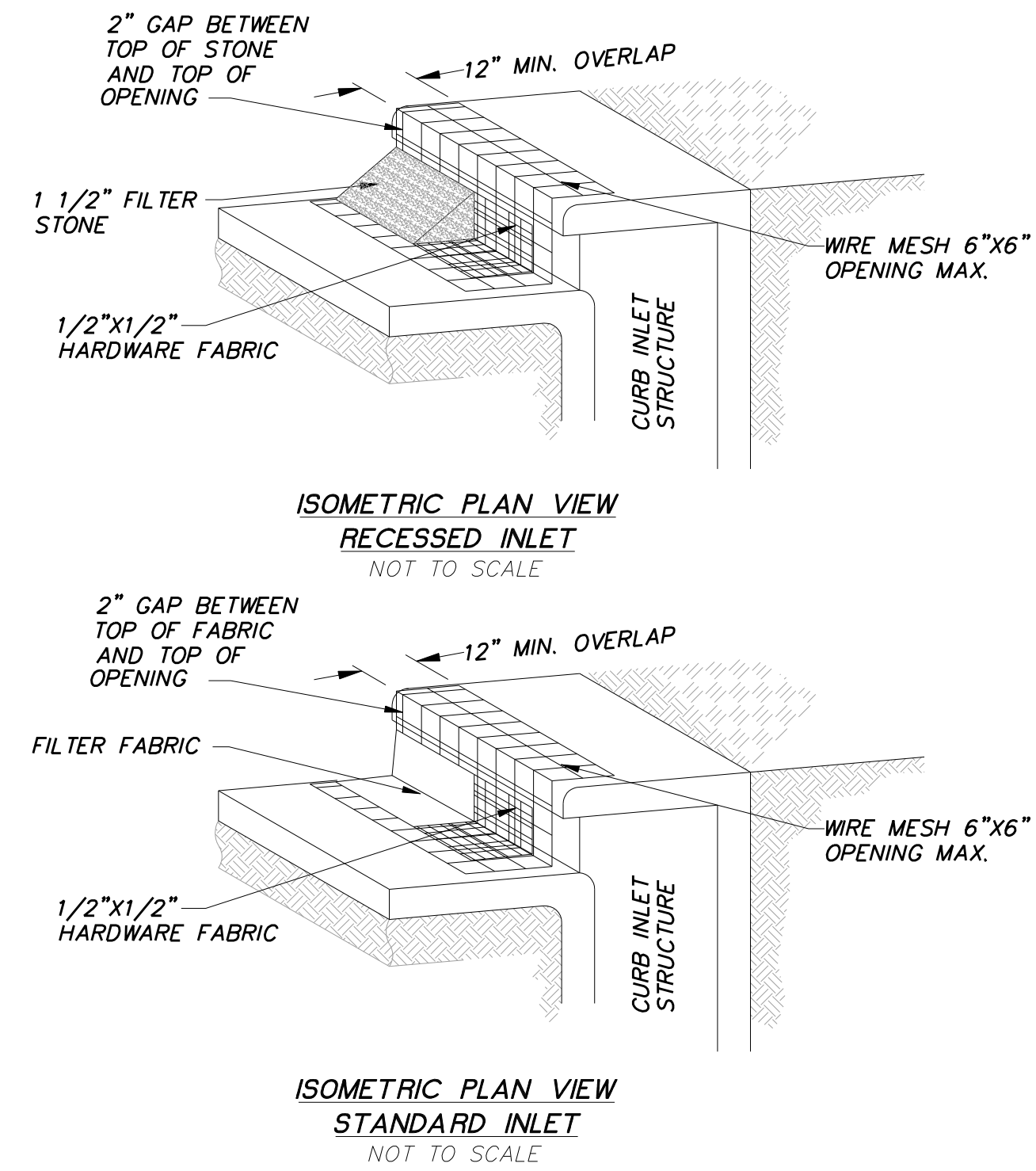
Figure 3.32 Schematics of Stabilized Construction Exit



- NOTE:
- STAKES SHALL CONFORM TO SPECIFICATIONS SECTION 202.5.2.2
 - HEIGHT OF INLET PROTECTION SURROUNDING THE INLET SHALL BE SHOWN ON THE PLANS AND MUST BE CHECKED TO VERIFY PONDING WATER WILL NOT CAUSE FLOODING OF PROPERTY OR DAMAGE.
 - CONCENTRATED DITCH FLOW COMING FROM ONE OR MORE SIDES TOWARD THE INLET MAY REQUIRE A STONE OVERFLOW STRUCTURE TO BE CONSTRUCTED ON ONE SIDE OF THE INLET
 - POST SHALL BE INSTALLED AT EACH CORNER AND BETWEEN CORNERS IF THE DISTANCE IS GREATER THAN 6' BETWEEN CORNER POSTS.

Revised 2019

Figure 3.12 Schematics of Filter Fabric Area Inlet Protection (Source: City of Plano BMP SP-4)



CURB INLET PROTECTION
NOT TO SCALE

NOTES:

- MATERIAL SPECIFICATIONS:**
 - CONCRETE BLOCK-ASTM C 139, CONCRETE MASONRY UNIT FOR CONSTRUCTION.
 - WIRE FABRIC-STANDARD GALVANIZED HARDWARE FABRIC WITH 1/2" BY 1/2" OPENINGS.
 - FILTER STONE-NCTCOG SPECIFICATION 2.1.8.(E).
 - WIRE MESH-WELDED WIRE FABRIC CONFORMING TO NCTCOG SPECIFICATION 2.2.7 MAXIMUM OPENING 6"x6".
- MAINTENANCE REQUIREMENTS:** CURB INLET PROTECTION SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAIN EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-HALF OF THE STORAGE DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE. CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.
- DO NOT USE A SEDIMENT FILTER TO CONTROL EROSION AROUND "Y" INLETS, UTILIZE SEDIMENT FENCES.
- EXTEND MESH, FABRIC AND FILTER STONE 12" BEYOND END OF INLET ON BOTH ENDS.



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SANITARY SEWER & WATER IMPROVEMENTS
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS

EROSION & SEDIMENT CONTROL DETAILS

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

SANITARY SEWER & WATER GENERAL NOTES:

1. REFER TO SHEET 4 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION AS PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS OF THE TOWN OF ADDISON.
3. PRIOR TO COMMENCING CONSTRUCTION, THE TOWN OF ADDISON, THE CONSULTING ENGINEERS, THE SUCCESSFUL CONTRACTOR, UTILITY COMPANIES, AND ANY OTHER AFFECTED PARTIES, SHALL CONVENE FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY PUBLIC UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

TOWN OF ADDISON (WATER, SEWER, SIGNALS)	ATMOS ENERGY (GAS)
ONCOR ELECTRIC DELIVERY	VERIZON / MCI
AT&T (SOUTHWESTERN BELL)	TIME-WARNER CABLE
CHARTER CABLE	
6. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER (FIVE SETS EACH), FOR APPROVAL OF ALL MATERIALS TO BE ADDED TO THE PUBLIC INFRASTRUCTURE, PRIOR TO INCORPORATING MATERIALS INTO THE JOB.
7. THE CONTRACTOR SHALL PROVIDE AND SUBMIT TO THE TOWN OF ADDISON (FOUR SETS EACH), AN APPROVED TRENCH SAFETY PLAN, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR THE INSTALLATION OF UTILITIES GREATER THAN FIVE (5) FEET IN DEPTH.
8. THE CONTRACTOR SHALL PROVIDE A MAINTENANCE BOND FOR PUBLIC INFRASTRUCTURE WORK. BONDS SHALL BE FOR A PERIOD OF TWO YEARS BEGINNING WITH THE DATE OF FINAL ACCEPTANCE BY THE TOWN.
9. THE CONTRACTOR SHALL FULLY COMPLY WITH, AND SUPPLEMENT AS NECESSARY, THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN WHILE CONDUCTING HIS ACTIVITIES ON THIS PROJECT.
10. THE TOWN OF ADDISON PUBLIC WORKS & ENGINEERING DEPARTMENT WILL APPROVE AND/OR DETERMINE THE TRAFFIC CONTROL PLAN AND WORKING HOURS. CONTACT THE CITY ENGINEER OR THE PUBLIC WORKS INSPECTOR AT (972) 450-2871.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, AND SUPPLEMENT AS NECESSARY, THE TRAFFIC CONTROL MEASURES ON THIS PROJECT, INCLUDING PROVIDING ADEQUATE FLAGMEN, SIGNAGE, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH THE "TEXAS MANUAL OF UNIFORM CONTROL DEVICES". THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE AN ALL-WEATHER DETOUR AROUND THE CONSTRUCTION SITE, INCLUDING PUBLIC NOTIFICATION, SIGNING AND ACCESSIBLE PEDESTRIAN ROUTES.
12. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR EGRESS TO PREVENT PUBLIC USE UNTIL THE WORK RECEIVES FINAL ACCEPTANCE.
13. THE CONTRACTOR SHALL COVER ALL OPEN EXCAVATIONS WITH ANCHORED STEEL PLATING, DURING NON-WORKING HOURS, ALONG EXISTING ROADWAYS AND TRAFFIC AREAS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION, INCLUDING PROVIDING ALL TEMPORARY STRUCTURES OR IMPROVEMENTS AS NECESSARY FOR THE SAFETY OF THE PUBLIC.
15. THE TOWN OF ADDISON WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ANY TEST THAT FAILS TO MEET CITY REQUIREMENTS SHALL BE RETESTED AT THE CONTRACTOR'S EXPENSE.
16. SITE GRADING, TO TOP OF PROPOSED SUBGRADE, SHALL BE COMPLETED BY OTHERS PRIOR TO CONSTRUCTION OF WATER AND SANITARY SEWER FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF THE SITE GRADING AFTER WATER & SANITARY SEWER CONSTRUCTION. ANY EXCESS OR UNSUITABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
17. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, GAS MAINS, TELEPHONE CABLES, ELECTRIC CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND, THE COST OF WHICH SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
18. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAIN OR SANITARY SEWER PIPING, THE CONTRACTOR SHALL ADJUST THE WATER LINE DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON THE PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.
19. THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, ELEVATION, CONFIGURATION, AND ANGLATION OF EXISTING WATER, SANITARY SEWER AND UTILITY LINES PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
20. ALL WATER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON'S WATER SYSTEM REQUIREMENTS.
21. ALL WATER MAINS TWELVE-INCH (12") DIAMETER AND SMALLER SHALL BE ANSI / AWWA C-900 PVC PRESSURE PIPE WITH CAST IRON O.D. EXCEPT WHEN A) WATER PIPE PENETRATES METER VAULT WALLS AND B) SPECIFIC WATER PIPE CROSSINGS AS REFERENCED ON WATER PROFILE SHEETS, IN WHICH CASES THE WATER PIPE SHALL BE CLASS 51 DUCTILE IRON, POLYETHYLENE WRAPPED. PIPE JOINTS SHALL BE RUBBER RING AND INTEGRAL THICKENED BELL, ASSEMBLED WITH A FACTORY SUPPLIED LUBRICANT. WATER MAINS SHALL HAVE A MINIMUM CLASS RATING OF 150-PSI FOR DOMESTIC USE AND A MINIMUM CLASS RATING OF 200-PSI FOR FIRE LINE APPLICATIONS. JOINT MATERIAL FOR PVC SHALL CONFORM TO ASTM F471.

22. EMBEDMENT FOR WATER MAINS SHALL COMPLY WITH NCTCOG CLASS "B+" EMBEDMENT OF CRUSHED STONE TO THE SPRING LINE OF THE PIPE, WITH SAND (12" MIN.) OVER THE PIPE. A LAYER OF GEO-TEXTILE FABRIC SHALL BE PLACED ON TOP OF THE STONE PRIOR TO THE PLACEMENT OF THE SAND.
23. THE MINIMUM COVER TO THE TOP OF THE PIPE MUST VARY WITH THE VALVE STEM. IN GENERAL, THE MINIMUM COVER BELOW THE TOP OF CURB AT STREET TO TOP OF THE PIPE SHOULD BE AS FOLLOWS:
 - A. LINES LARGER THAN SIXTEEN-INCH (16") SHALL HAVE A MINIMUM OF SIX FEET (6) OF COVER WHICH IS SUFFICIENT TO ALLOW WATER AND SEWER AND OTHER UTILITIES TO GO OVER THE LARGE MAIN.
 - B. TWELVE-INCH (12") AND SIXTEEN-INCH (16") MAINS SHALL HAVE A MINIMUM COVER OF FIVE FEET (5).
 - C. EIGHT-INCH (8") AND SMALLER MAINS SHALL HAVE A MINIMUM COVER OF FOUR FEET (4).
24. THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS. THE CONTRACTOR MAY PULL PIPE AS NEEDED AT THE BENDS WHERE THE DEFLECTION ANGLE OF THE PIPE DOES NOT MATCH THE ANGLE OF THE BEND PROVIDED THE PIPE DEFLECTION IS WITHIN TOLERABLE MANUFACTURERS LIMITS. THE COST FOR ADDITIONAL BENDS AND BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
25. ALL VALVES, DUCTILE IRON FITTINGS AND SPECIALS SHALL BE POLYETHYLENE WRAPPED.
26. HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY, HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES STANDARD DETAILS.
27. ALL FITTINGS SHALL BE DUCTILE IRON, FULL BODIED, MECHANICAL JOINT TYPE WITH RESTRAINING GLANDS, AND HAVE A MINIMUM RATED WORKING PRESSURE OF 250 PSI. FITTINGS SHALL BE WRAPPED WITH 8-MIL POLY PRIOR TO BACKFILL.
28. ALL VALVES AND FITTINGS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED. THRUST BLOCKING SHALL BE MINIMUM 3000 PSI CONCRETE AND BE ABLE TO WITHSTAND A MINIMUM 200 PSI TEST PRESSURE.
29. THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES STANDARD DETAILS. DO NOT COVER BELLS OR FLANGES WITH CONCRETE. THE CONTRACTOR SHALL REMOVE EXISTING THRUST BLOCKING OR RESTRAINTS WHERE NECESSARY TO ALLOW THE WORK TO PROCEED AND SHALL REPLACE THE THRUST BLOCKS WHERE REQUIRED. THE COST TO REMOVE, REPLACE OR PROVIDE THRUST BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
30. TRACER WIRE SHALL BE PLACED ON PIPE PRIOR TO EMBEDMENT. WIRE SHALL BE #12 PLASTIC COATED COPPER WIRE, TIED TO ALL VALVES AND FIRE HYDRANTS, AND EXTENDING TO SIX (6) INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND HYDRANTS.
31. FINISH BACKFILL SHALL BE NATIVE SOIL FREE OF ALL ROCKS AND CLOUDS GREATER THAN THREE INCHES IN DIAMETER, COMPACTED TO 95% STANDARD PROCTOR DENSITY, IN SIX (6) INCH MAXIMUM LOOSE LIFTS, WITH ZERO TO PLUS THREE, OPTIMUM MOISTURE.
32. NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE TOWN OF ADDISON.
33. THE CONTRACTOR WILL REMOVE EXISTING WATER METERS NOT USED FOR PROPOSED DEVELOPMENT. REMOVE METERS AND METER LIDS IN A WAY AS TO NOT DAMAGE THE METER OR LID AND DELIVER SALVAGED METERS TO THE TOWN OF ADDISON. CONTRACTOR SHALL KILL EXISTING DEADHEAD SERVICE FOR REMOVED METERS AT THE MAIN LINE.
34. AT ALL WATER & WASTEWATER MAIN CROSSINGS, THE PIPE SEGMENT OF EACH MAIN SHALL BE CENTERED AT THE CROSSING SUCH THAT THE JOINTS OF THE PIPES ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZINTALLY FROM THE CENTERLINE OF THE CROSSING.
35. ALL WASTEWATER MAIN PIPING SHALL MEET THE EXTRA STRENGTH REQUIREMENTS OF ASTM SPECIFICATION D3034 (SDR-35). PIPE SHALL HAVE THE BELL AND SPIGOT TYPE JOINTS, CONSISTING OF INTEGRAL WALL SECTION WITH FACTORY INSTALLED COMPRESSION RUBBER RING GASKET, SECURELY LOCKED IN BELL GROOVE TO PROVIDE POSITIVE SEAL UNDER ALL INSTALLATION CONDITIONS. PIPE SHALL BE LAID WITH THE BELL END ON THE UPSTREAM SIDE.
36. EMBEDMENT FOR WASTEWATER MAINS SHALL COMPLY WITH NCTCOG CLASS "B+" EMBEDMENT OR, IF INDICATED ON THE PLANS, CEMENT STABILIZED SAND EMBEDMENT PER THE TOWN OF ADDISON STANDARD DETAILS.
37. ALL SEWER MANHOLES WITH PRESSURE TYPE FRAME AND COVERS SHALL HAVE THE INTERIOR SURFACE COATED WITH AN EPOXY COATING (RAVEN 405 OR APPROVED EQUAL), MINIMUM 40 MILS THICKNESS, INSTALLED PER MANUFACTURE'S SPECIFICATIONS.
38. ALL EXISTING AND PROPOSED IMPROVEMENTS (VALVES, MANHOLES, FIRE HYDRANTS, WATER METERS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR.
39. THE CONTRACTOR SHALL STAMP A 2-INCH "W" AND A 2-INCH "S" IN THE CURB AT THE LOCATION OF THE WATER AND SEWER SERVICE LINES RESPECTIVELY. A 2-INCH "C" SHALL MARK CONDUITS CROSSING PAVEMENT, AND A 2-INCH "V" SHALL MARK WATER VALVES, WITH THE "POINT" OF THE "V" TOWARD THE VALVE.
40. WATERLINES SHALL BE TESTED BOTH BACTERIOLOGICALLY AND HYDROSTATICALLY. WATER MAINS SHALL BE HYROSTATICALLY TESTED AT 150 PSI FOR FOUR (4) HOURS. FIRE LINES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR (2) HOURS. ALL BLEEDER LINES SHALL BE REMOVED UPON COMPLETION OF TESTING BY REMOVING THE CORPORATION STOP AND INSTALLING A BRASS PLUG. HEAVILY CHLORINATED WATER (3.5 MGL OR GREATER FREE CHLORINE) RESULTING FROM WATER LINE STERILIZATION SHALL BE DIRECTED TO THE SANITARY SEWER AFTER THE MANDATORY CHLORINE RETENTION TIME (USUALLY 24 HOURS) UNLESS OTHERWISE NOTED.

41. ALL WASTEWATER MAINS SHALL BE CAMERA INSPECTED BY THE CONTRACTOR AFTER THE INSTALLATION OF ALL UTILITIES AND PRIOR TO FINAL ACCEPTANCE OF NEW WASTEWATER FACILITIES.
42. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ALL REQUIRED TESTS (PRESSURE, BACTERIOLOGICAL, BACKFLOW, VACUUM, MANDREL, VHS VIDEO OF SANITARY SEWER, ETC.) TO THE TOWN OF ADDISON.
43. THE CONTRACTOR SHALL CALL (972) 450-2847 TO REQUEST A FINAL WALK-THROUGH INSPECTION OF THE PUBLIC INFRASTRUCTURE WORK.
44. ANY ADJACENT PROPERTIES AFFECTED BY THE CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER.
45. BLUE REFLECTORIZED BUTTONS ARE TO BE INSTALLED IN THE CENTER OF THE DRIVE LANE NEAREST THE OUTSIDE CURB OPPOSITE ALL FIRE HYDRANTS.



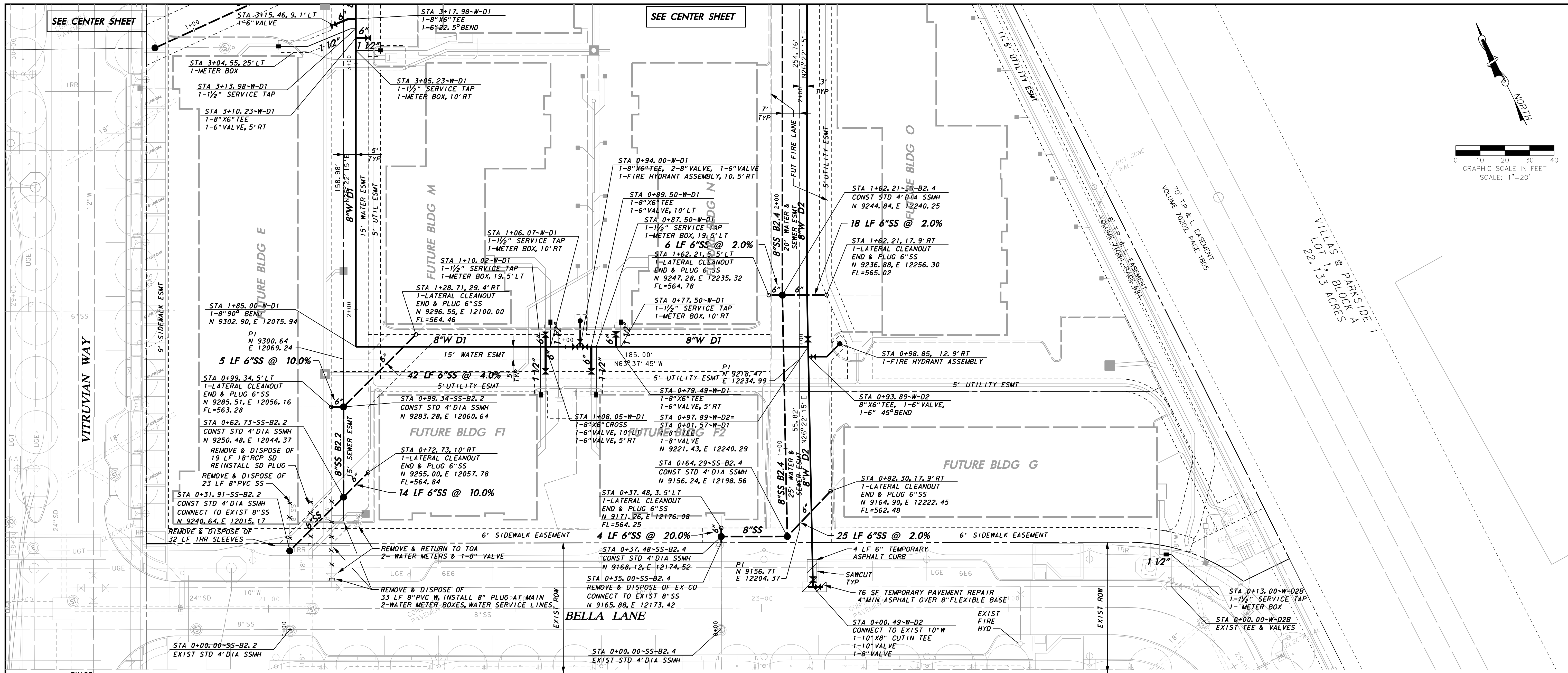
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
SANITARY SEWER & WATER GENERAL NOTES

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



LEGEND

REMOVE & DISPOSE OF EXISTING PAVEMENT

BM #1 REF. ELEVATION = 584.37
 "X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
 "X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.



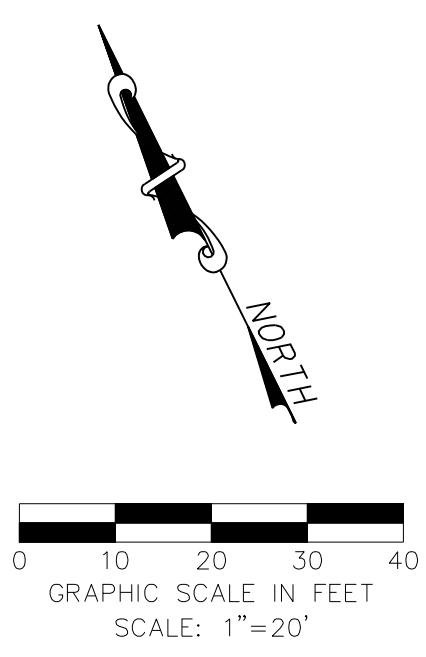
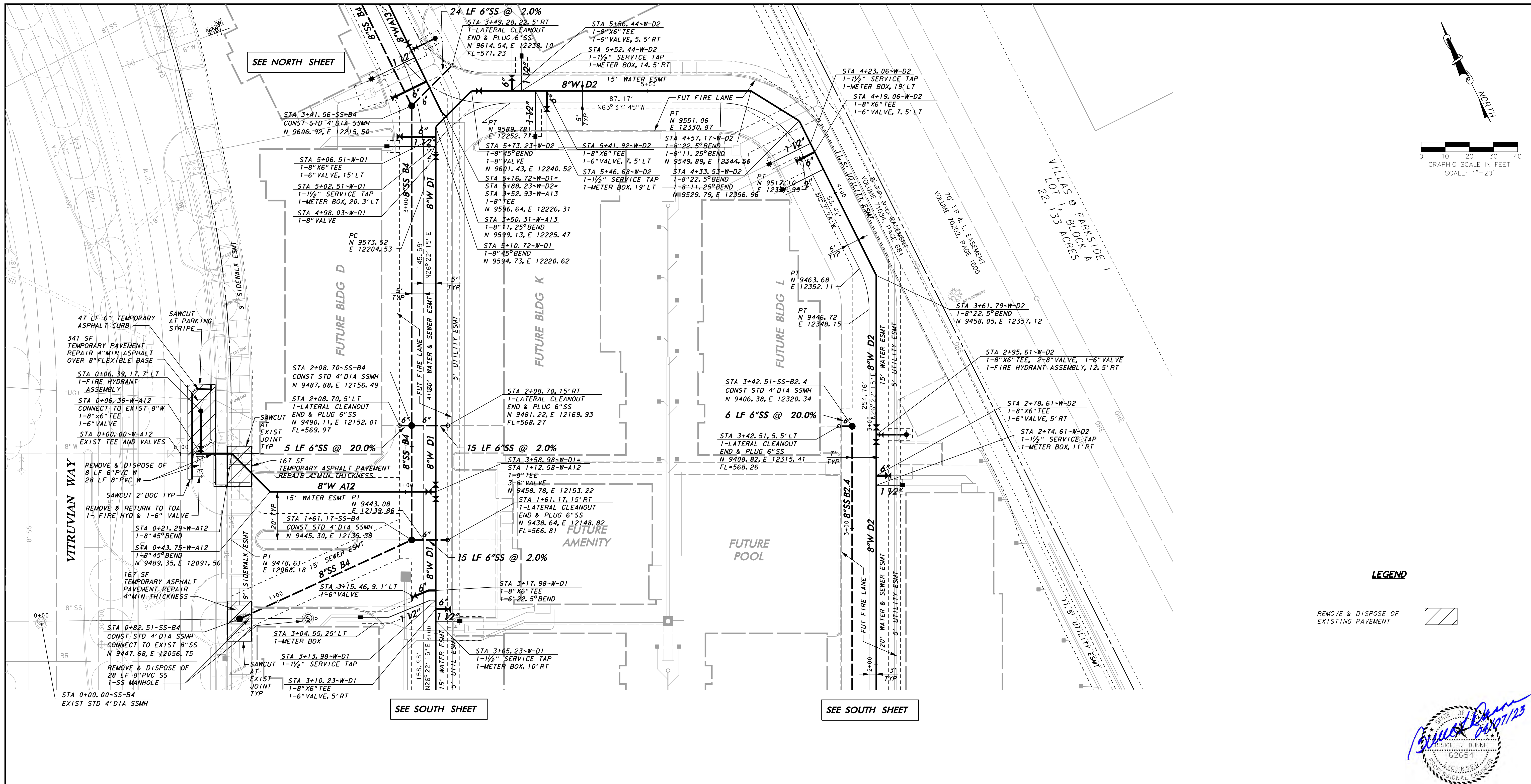
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
SANITARY SEWER & WATER PLAN SOUTH

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



LEGEND

REMOVE & DISPOSE OF EXISTING PAVEMENT



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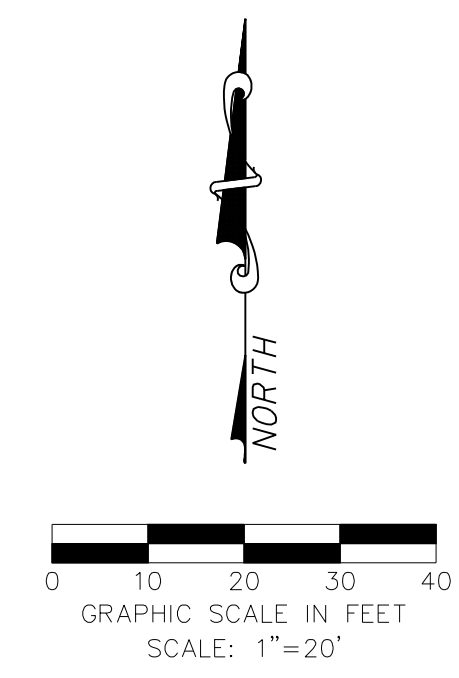
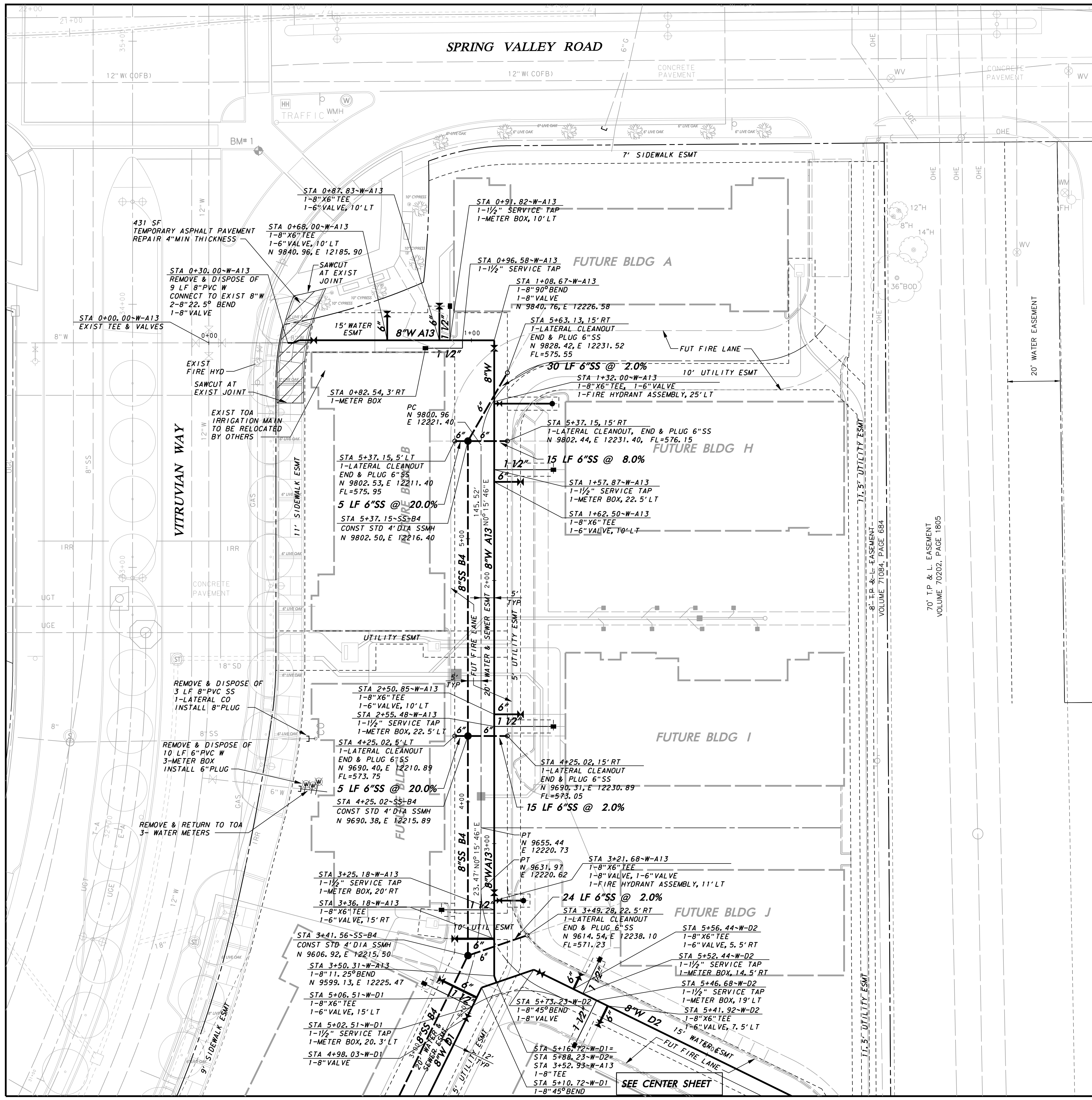
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
SANITARY SEWER & WATER PLAN CENTER

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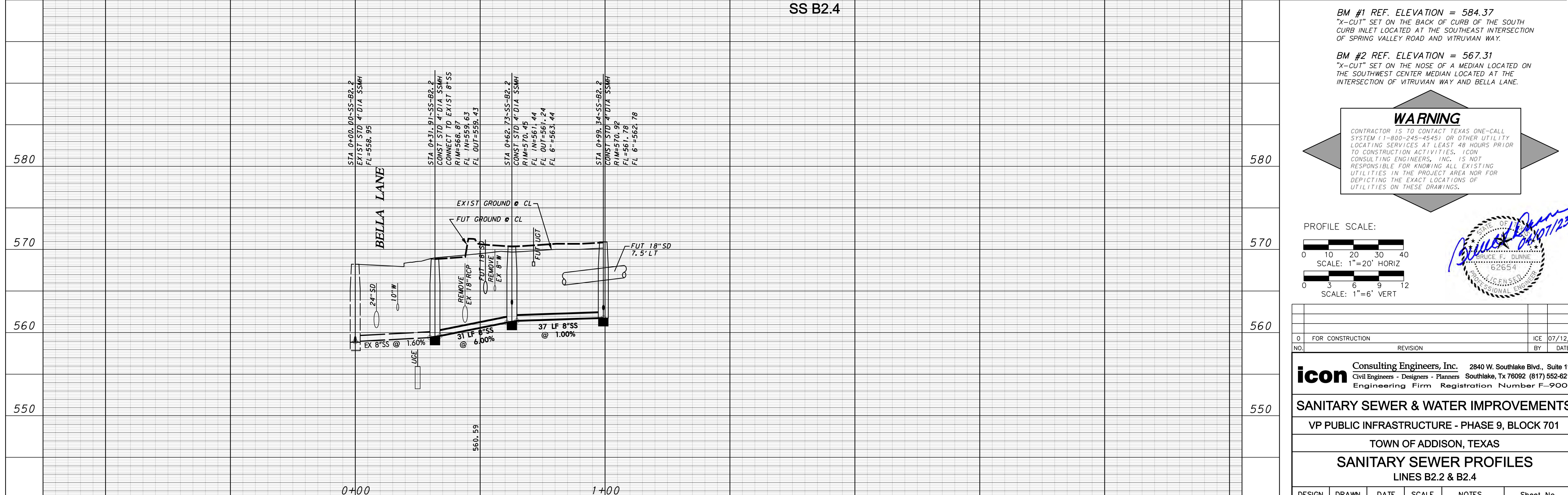
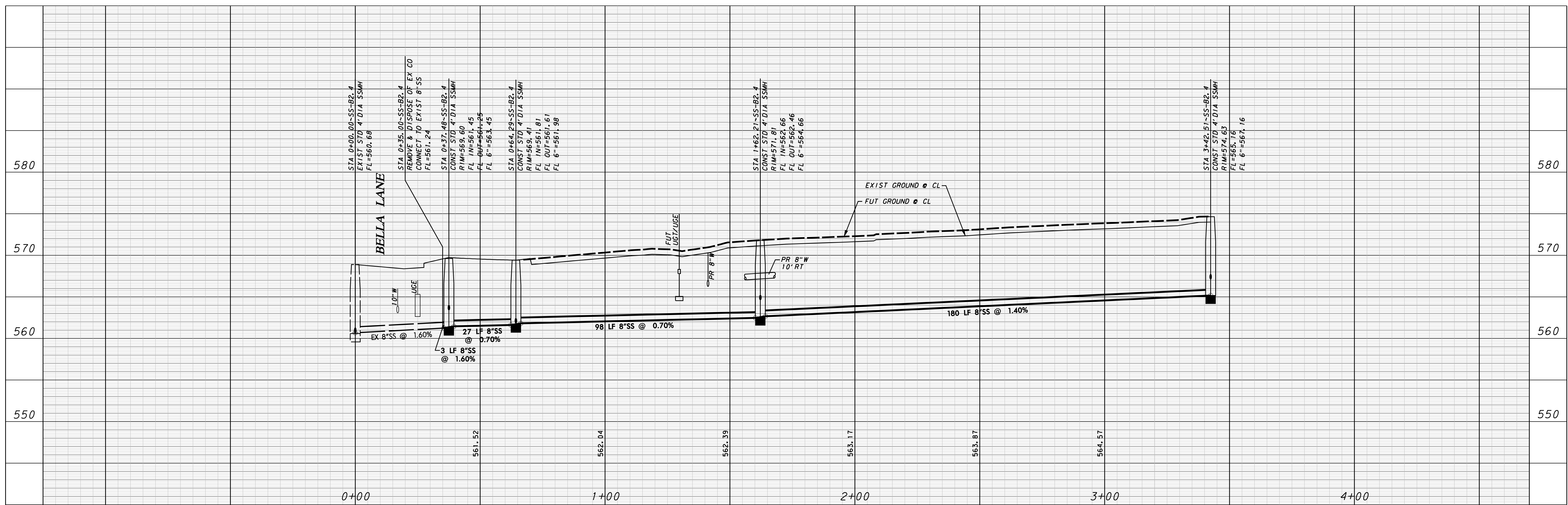
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SANITARY SEWER & WATER PLAN
NORTH

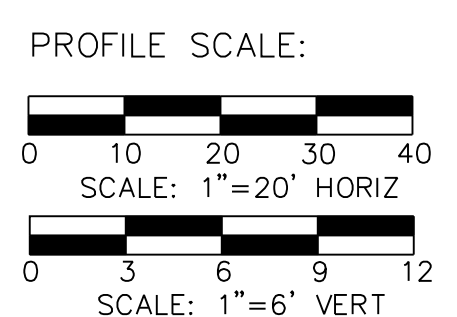
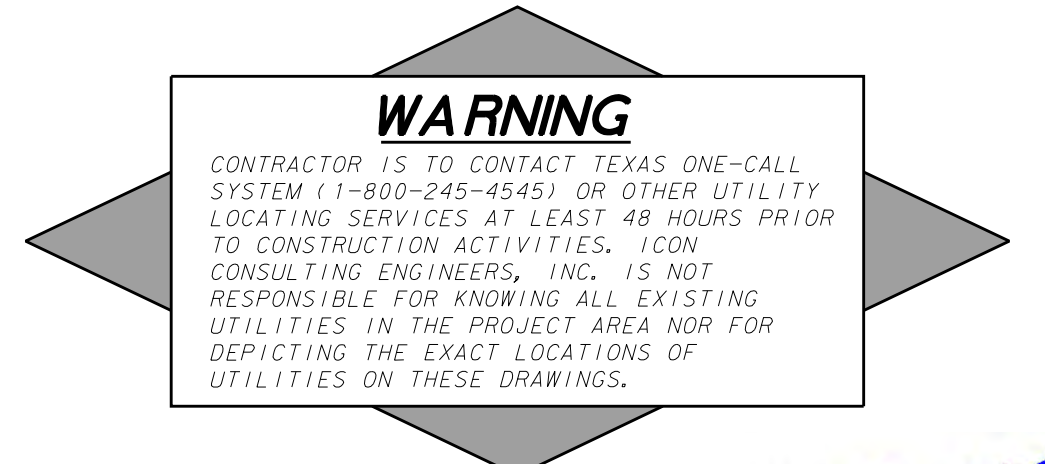
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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



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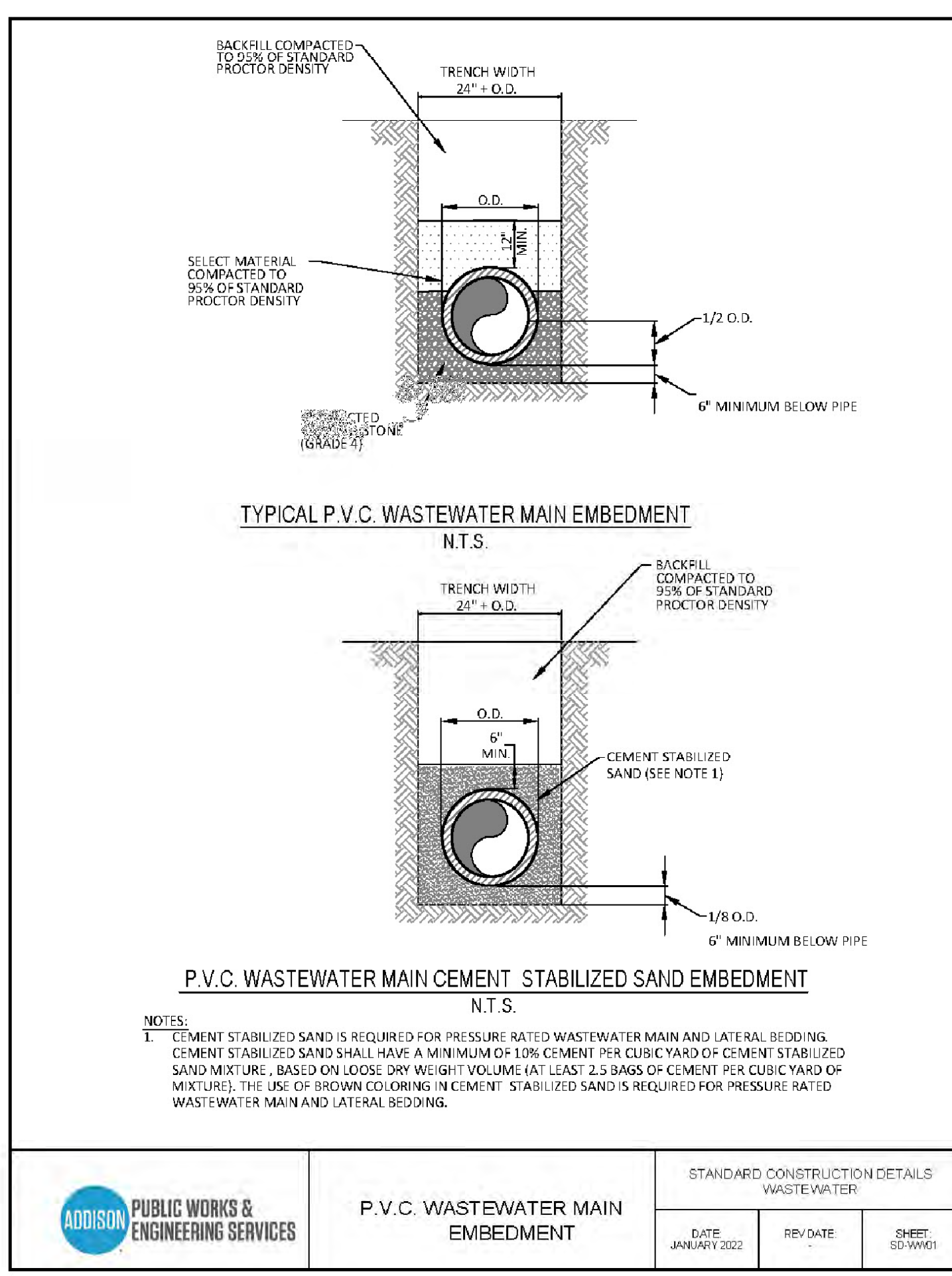
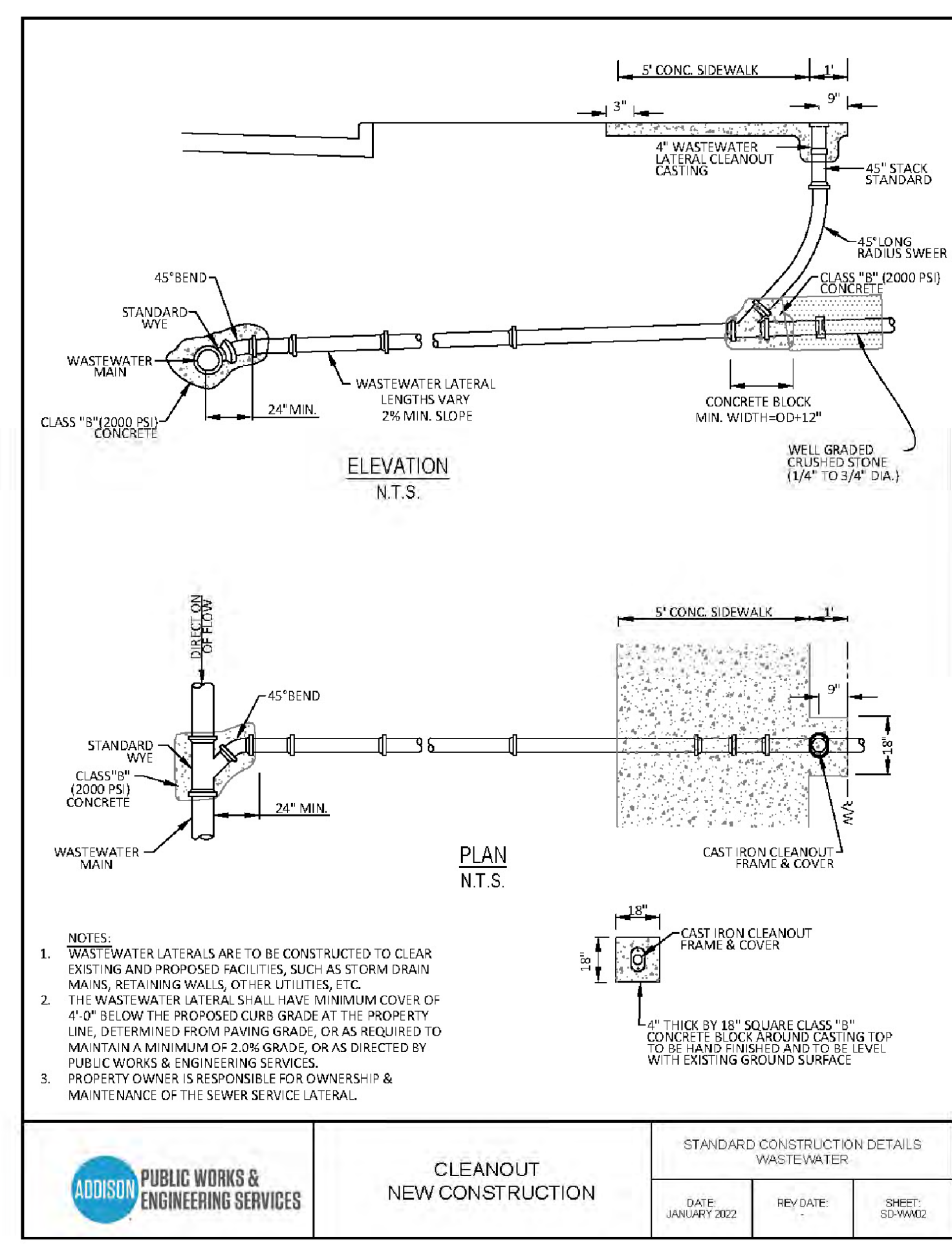
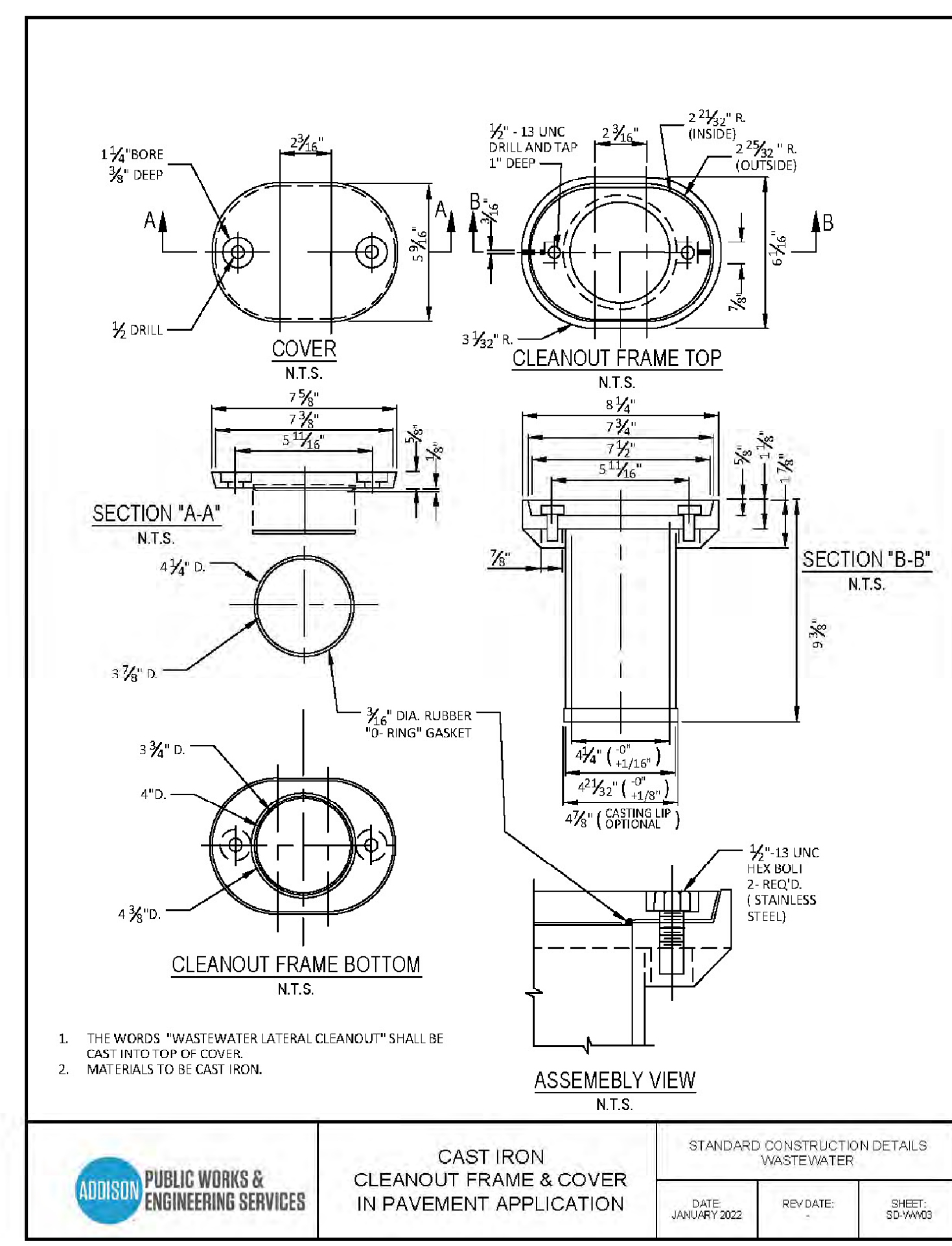
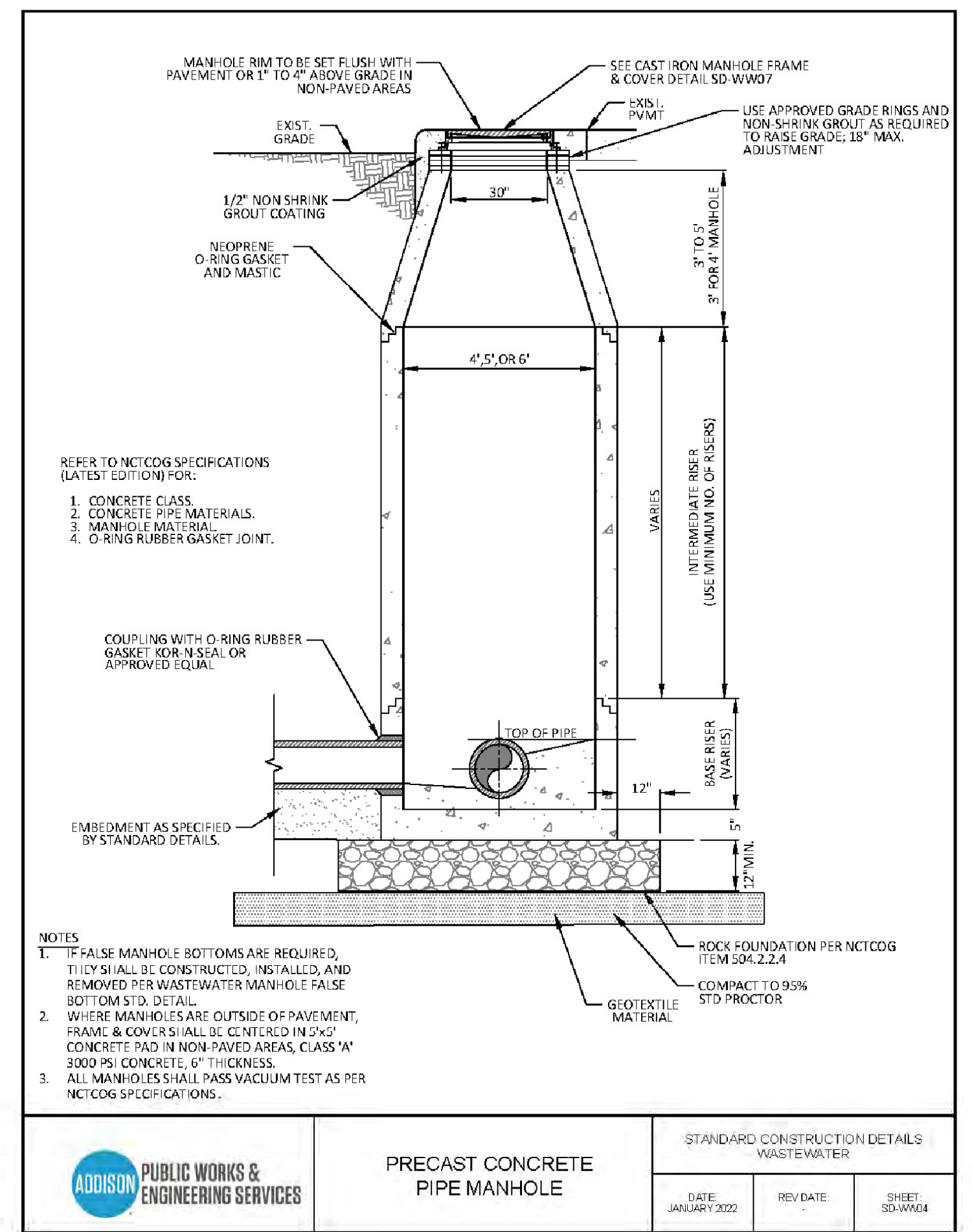
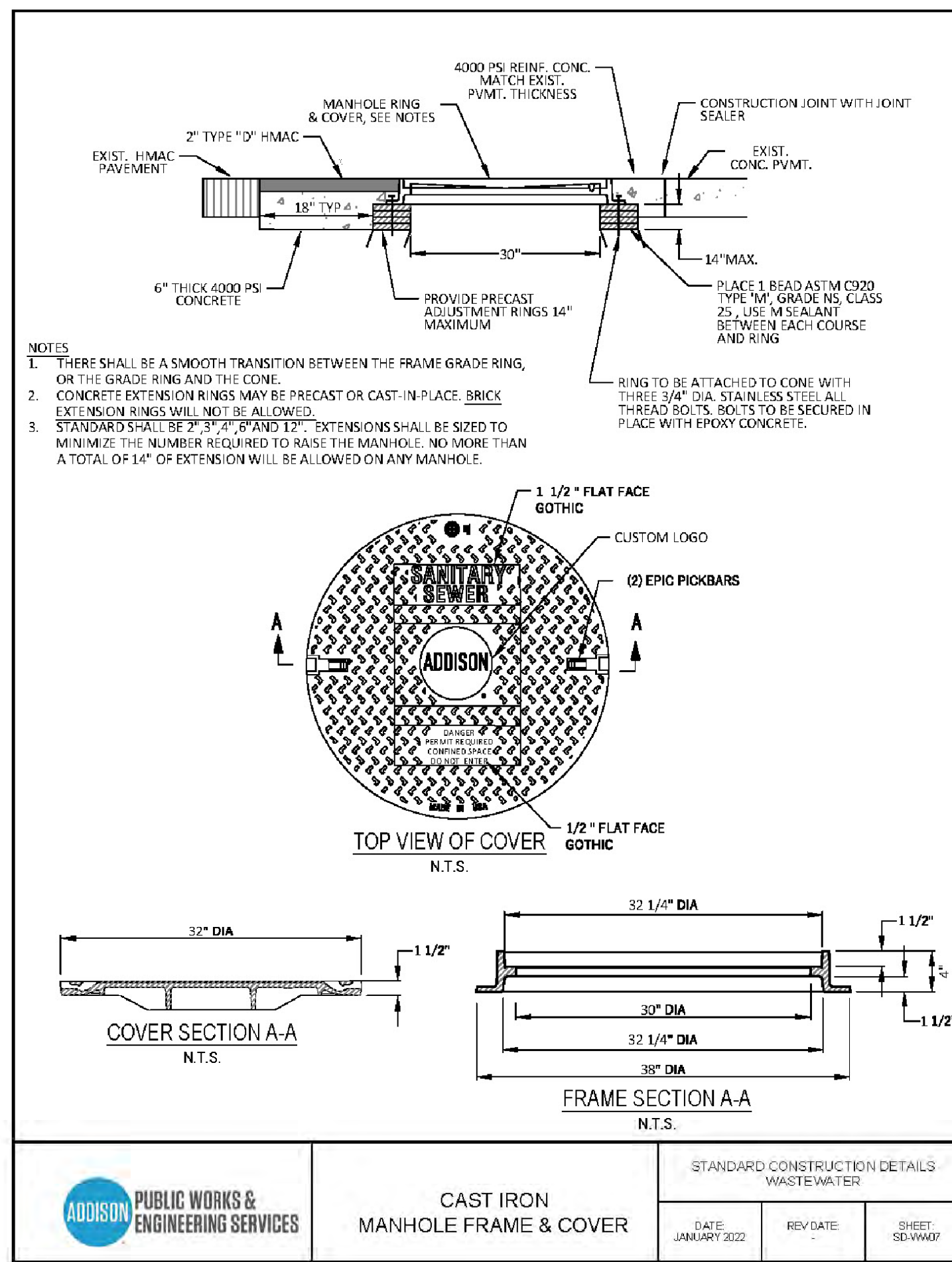
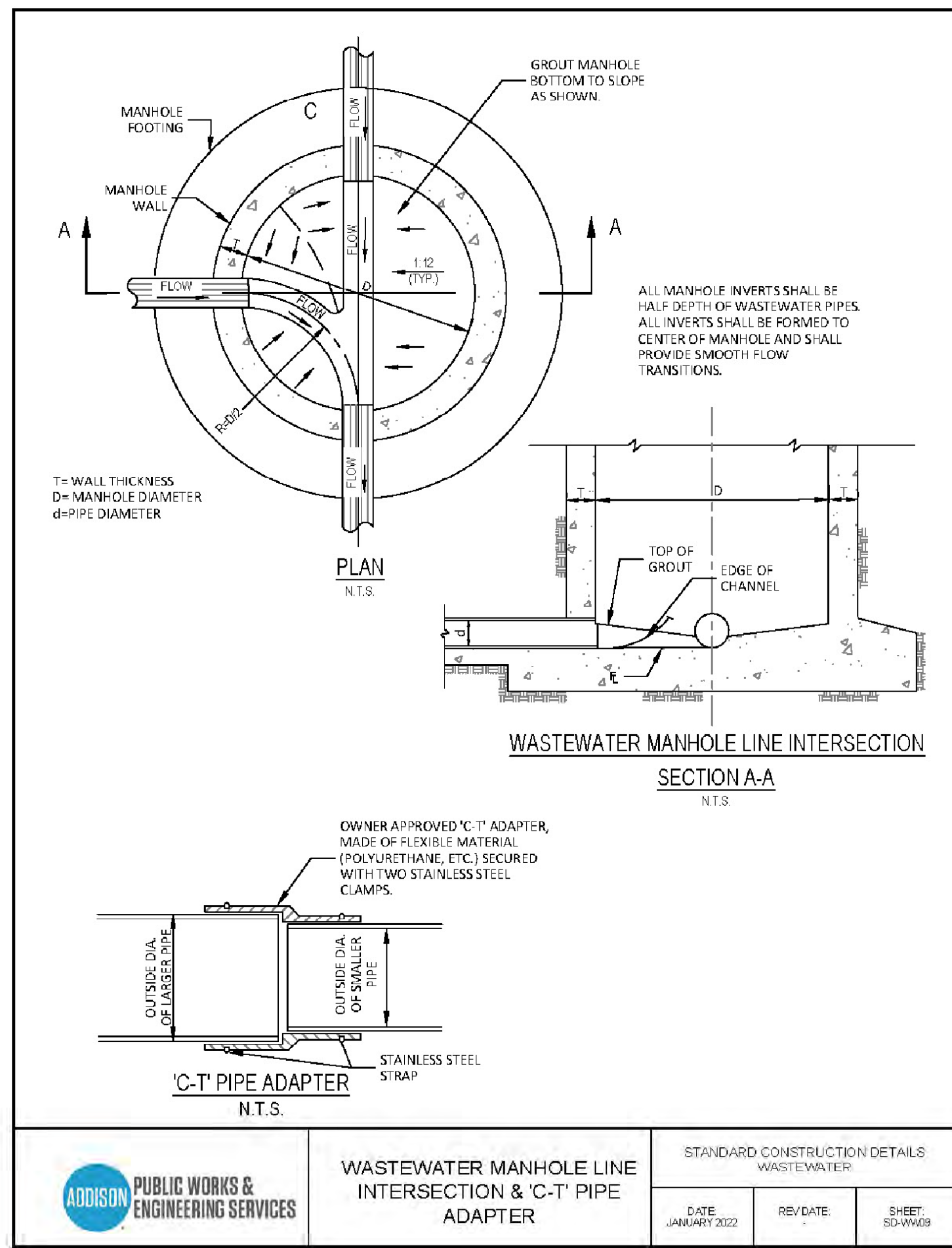
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
SANITARY SEWER PROFILES
 LINES B2.2 & B2.4

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



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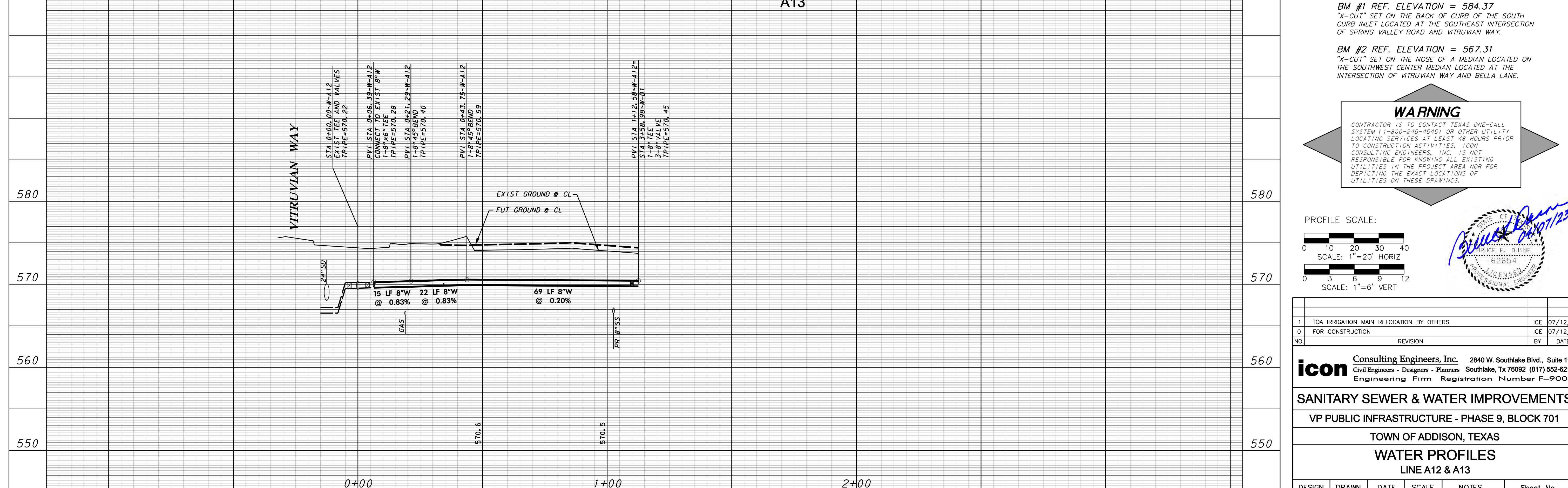
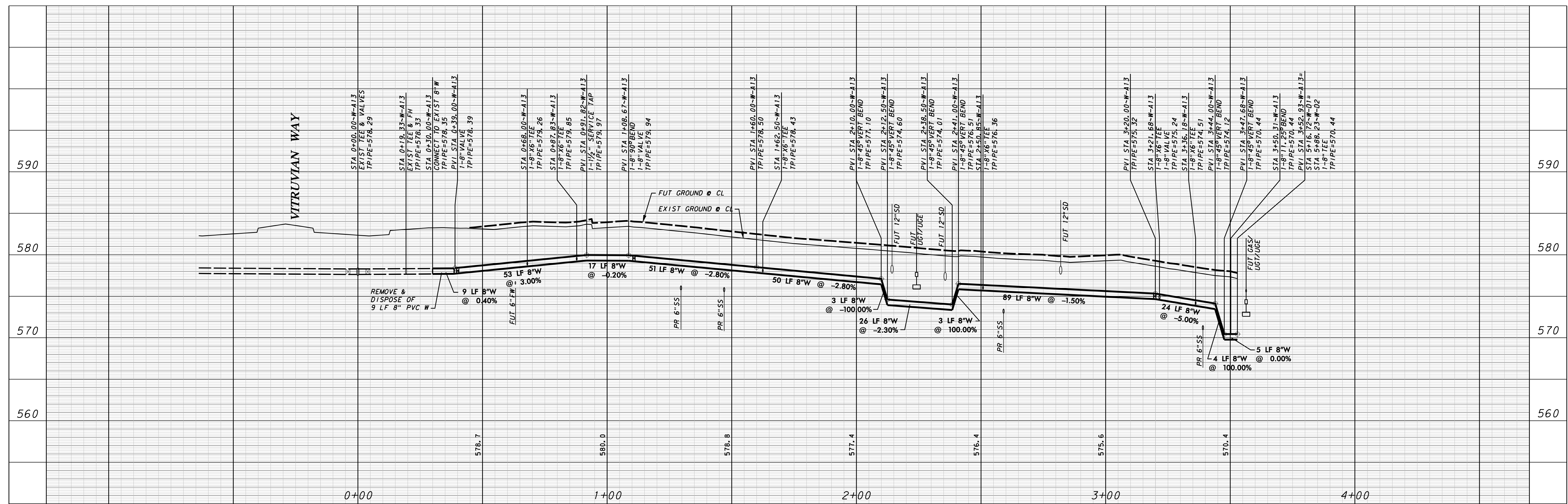
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SANITARY SEWER & WATER IMPROVEMENTS
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS

SANITARY SEWER DETAILS

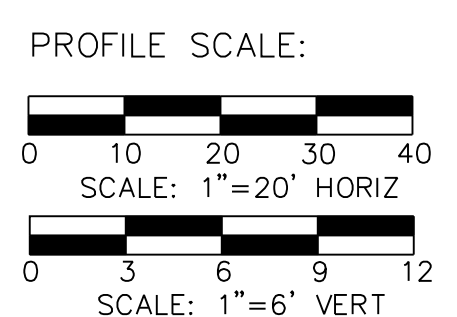
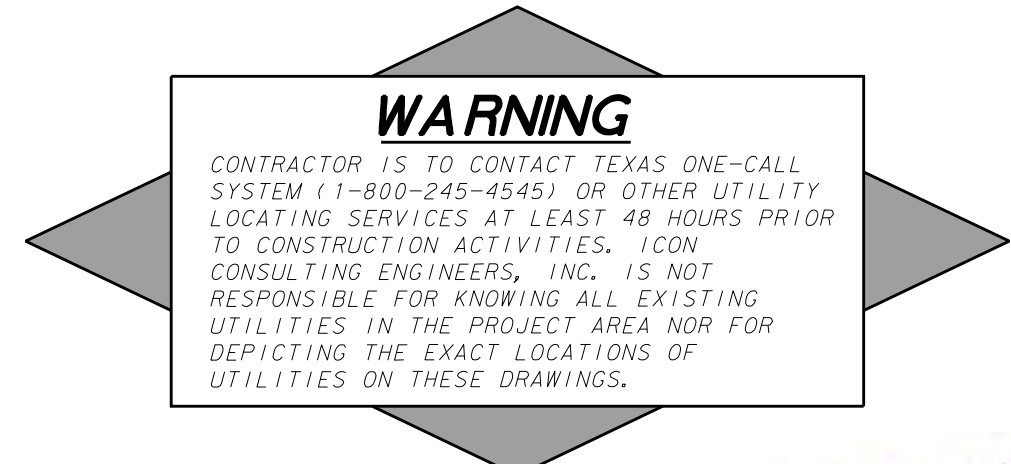
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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



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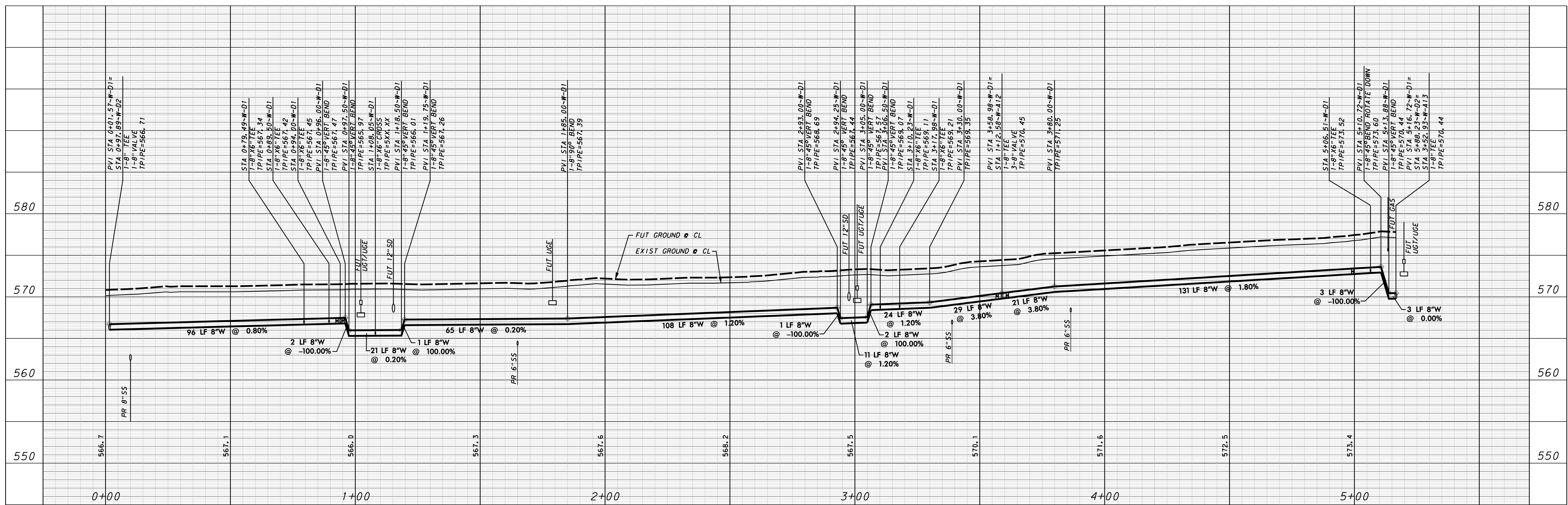
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SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
WATER PROFILES
 LINE A12 & A13

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SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



BM #1 REF. ELEVATION = 584.37
 "X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
 "X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.



NO.	REVISION	BY	DATE
0	FOR CONSTRUCTION	ICE	07/12/22

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
 Civil Engineers - Designers - Planners Southlake, TX 76092 (817) 552-6210
 Engineering Firm Registration Number F-9007

SANITARY SEWER & WATER IMPROVEMENTS
 VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
 TOWN OF ADDISON, TEXAS
WATER PROFILES
 LINE D1

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 7, 2023	AS NOTED		16

SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

UTILITY SUPPORT DETAIL
N.T.S.

WATER MAIN LOWERING DETAIL
N.T.S.

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

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

TYPE-B VALVE EXTENSION
N.T.S.

SPRING LOCK VALVE EXTENSION
N.T.S.

NOTE: TO BE USED ON ALL VALVES DEEPER THAN 5'-0".

DETAIL
N.T.S.

STANDARD CONSTRUCTION DETAILS
WATER

DATE: JANUARY 2022 REV. DATE: SHEET: SD-W17

VALVE BOX WITH EXTENSION

FOR ALL VALVES- 6" C-900 PVC NTS

STANDARD CONSTRUCTION DETAILS
WATER

DATE: JANUARY 2022 REV. DATE: SHEET: SD-W18

TYPICAL VALVE SETTING AND BOX

NOTES:
1. 4" THRU 12" A.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
2. 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.
3. BLUE 1/4" 18" CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
4. ALL IRON MATERIALS SHALL BE DOMESTIC. (MADE IN USA)

STANDARD CONSTRUCTION DETAILS
WASTEWATER

DATE: JANUARY 2022 REV. DATE: 04-08-2017 SHEET: SD-W19

SERVICE CONNECTION WITH METER BOX

POLY SERVICE LINE ALLOWED	ENDOTRACE CONNECTION	MIN. DIA.	COVER & RINGS	MIN. HT.	MIN. CAN WEIGHT	MIN. TOTAL WEIGHT
1 INCH	3 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.

STANDARD CONSTRUCTION DETAILS
WATER

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

TYPICAL FIRE HYDRANT INSTALLATION
N.T.S.

NOTE:
1. E.I.W. SCD250 HYDRANT OR EQUIVALENT APPROVED BY THE CITY.
2. DESIGN, SITE REQUIREMENTS, THE GENERAL ORIENTATION, PAINTING AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
3. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 24" FROM THE P.C.'S OF THE CORNER TURNING RADIUS AT INTERSECTIONS AND DRIVEWAYS (SEE PLAN VIEW).
4. FIRE HYDRANT COLORS: RUSTOLEUM PROFESSIONAL GRADE ENAMEL (7792 & 7738).

NOTE: ALL ANCHOR FITTINGS TO BE CONCRETE THRUST BLOCKED. ALL DUCTILE OR CAST IRON FITTINGS AND OR PIPE TO BE POLYWRAPPED.

STANDARD CONSTRUCTION DETAILS
WATER

DATE: JANUARY 2022 REV. DATE: SHEET: SD-W19

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

STANDARD CONSTRUCTION DETAILS
WASTEWATER

DATE: JANUARY 2022 REV. DATE: SHEET: SD-W18

BRUCE F. DUNNE
62654
PROFESSIONAL ENGINEER

NO.	REVISION	BY	DATE
0	FOR CONSTRUCTION	ICE	07/12/22

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, TX 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

SANITARY SEWER & WATER IMPROVEMENTS
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS

WATER DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 7, 2023	AS NOTED		18

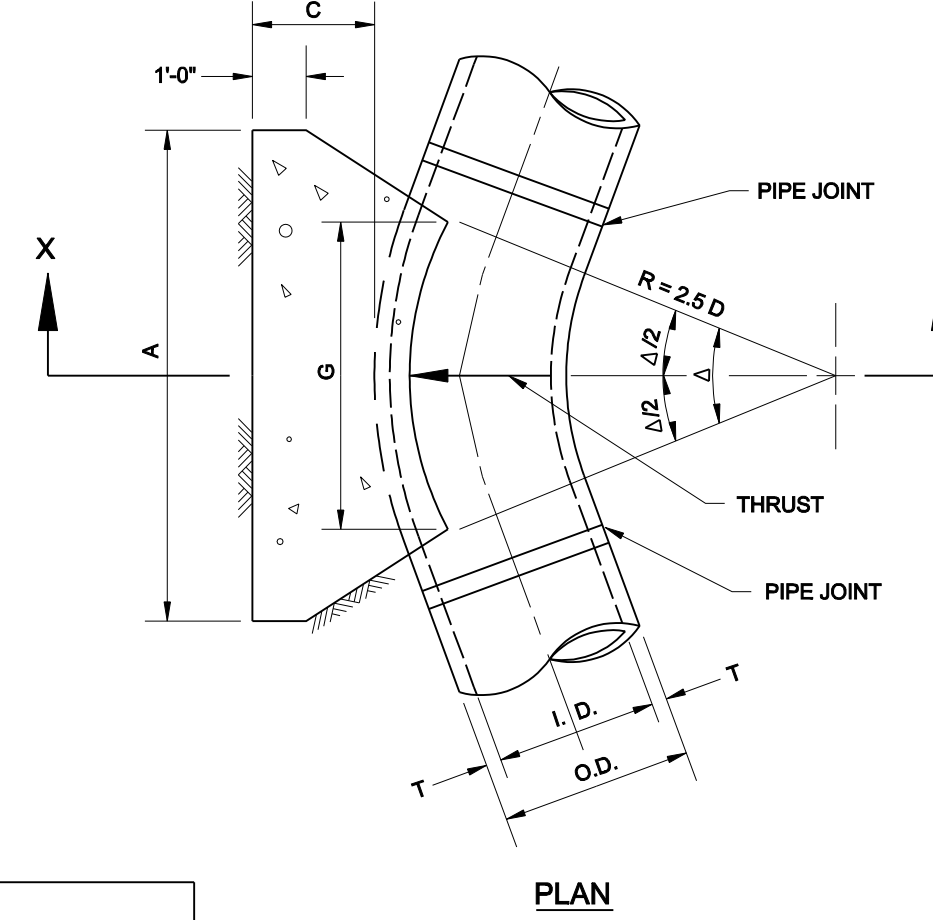
SANITARY SEWER & WATER IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

I.D. (IN.)	$\Delta = 30^\circ$									$\Delta = 45^\circ$								
	G (FT.)	THRUST (TONS)	EARTH			ROCK			G (FT.)	THRUST (TONS)	EARTH			ROCK				
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)		
4.6,8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4.6,8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1	
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3	
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6	
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.8	24.1	5.5	4.5	1.5	3.5	3.5	0.7	
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1	
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.8	
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6	
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2	
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3	
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9	
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0	
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2	
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7	
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9	
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6	
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6	
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5	

I.D. (IN.)	$\Delta = 67.50^\circ$									$\Delta = 90^\circ$								
	G (FT.)	THRUST (TONS)	EARTH			ROCK			G (FT.)	THRUST (TONS)	EARTH			ROCK				
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)		
4.6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4.6,8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2	
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5	
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0	
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5	
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1	
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3	
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3	
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8.7	
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4	
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1	
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	298.8	30.0	10.0	50.3	20.0	7.5	24.0	
66	17.1	285.3	26.0	11.0	48.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5	
72	18.7	339.5	28.5	12.0	67.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0	
78	20.2	398.5	31.0	13.0	95.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2	
84	21.8	462.1	33.5	14.0	134.4	22.0	10.5	46.5	84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8	
90	23.3	530.5	35.5	15.0	184.5	24.5	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2	
96	24.9	603.6	38.0	16.0	251.5	25.5	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1	

TABLES OF DIMENSIONS AND QUANTITIES

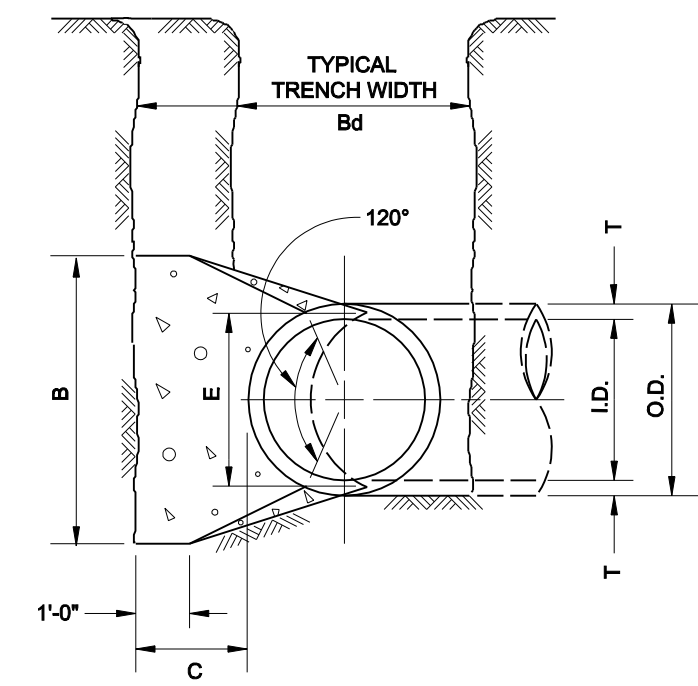
I.D. (IN.)	T (IN.)	$\Delta = 11.25^\circ$ (FT.)	$\Delta = 22.50^\circ$ (FT.)	E (FT.)
4.6,8	0.4	1.5	1.5	0.9
10,12	0.5	1.5	1.5	1.2
16,18	0.6	1.5	1.5	1.6
20	0.7	1.5	1.5	1.8
24	0.9	1.5	1.5	2.1
30	2.9	1.5	1.9	2.6
36	4.5	1.5	2.3	3.3
42	5.0	1.8	2.6	3.8
48	5.5	2.0	3.0	4.3
54	6.0	2.3	3.4	4.8
60	6.5	2.5	3.8	5.3
66	6.8	2.8	4.1	5.7
72	7.5	3.0	4.5	6.3
78	7.5	3.3	4.9	6.7
84	8.0	3.5	5.3	7.2
90	8.5	3.8	5.8	7.7
96	9.0	4.0	6.0	8.2



PLAN

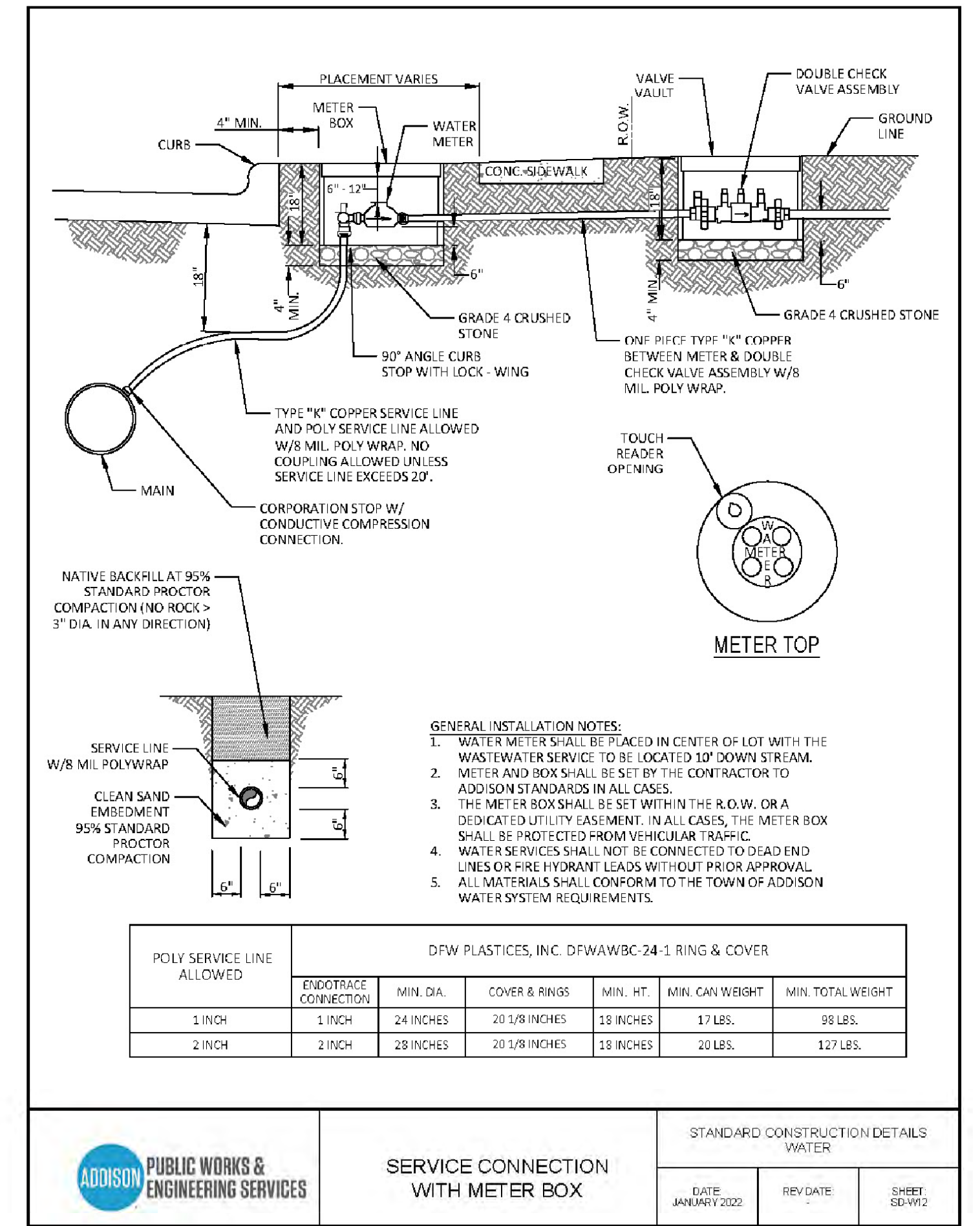
I.D. (IN.)	$\Delta = 11.25^\circ$									$\Delta = 22.50^\circ$								
	G (FT.)	THRUST (TONS)	EARTH			ROCK			G (FT.)	THRUST (TONS)	EARTH			ROCK				
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)		
4.6,8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1	4.6,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1	
10,12	0.6	2.2	1.5	1.5	0.1	1.0	1.5	0.1	10,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1	
16,18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2	16,18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3	
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	0.3	20	1.8	12.3	3.5	3.5	0.7	2.0	3.0	0.4	
24	1.1	8.9	3.0	3.5	0.5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5	
30	1.4	10.4	3.0	3.5	0.6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	
36	1.7	15.0	3.5	4.5	0.9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	
42	1.9	20.4	4.5	5.0	1.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1	
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	1.1	48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8	
54	2.5	33.7	6.0	6.0	3.0	3.0	6.0	1.4	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1	
60	2.7	41.6	6.0	7.0	3.8	3.0	7.0	1.8	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3	
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	2.7	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2	
72	3.3	59.9	7.5	8.0	6.3	4.0	8.0	3.3	72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1	
78	3.6	70.2	8.0	9.0	8.1	4.0	9.0	3.9	78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7	
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0	5.3	84	7.8	162.1	13.0	12.5	27.2	8.5	10.0	14.8	
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0	6.3	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7	
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0	7.4	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8	

TABLES OF DIMENSIONS AND QUANTITIES

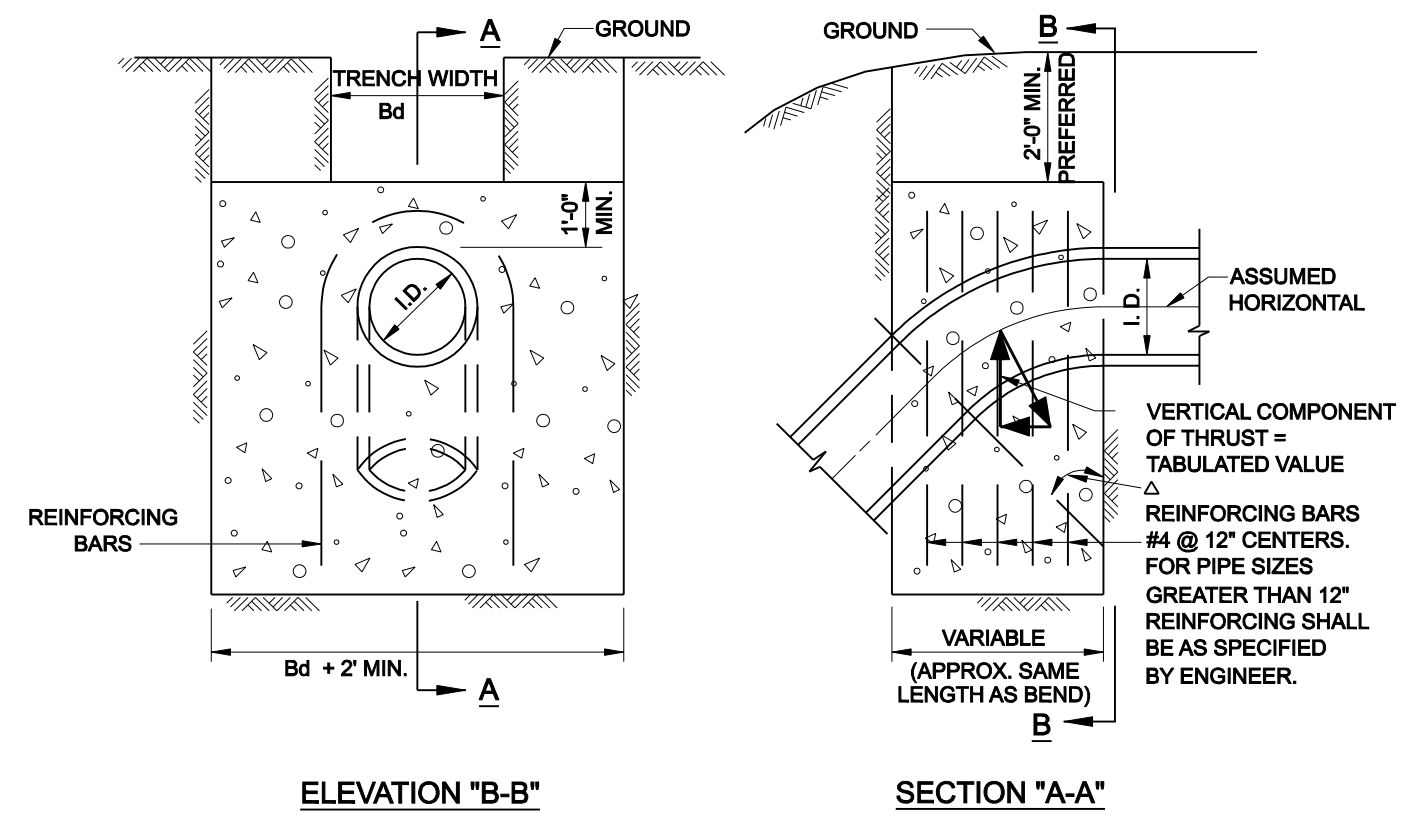


SECTION X-X

HORIZONTAL THRUST BLOCK



STANDARD CONSTRUCTION DETAILS WATER
 SERVICE CONNECTION WITH METER BOX
 DATE: JANUARY 2022 REV: DATE SHEET: SD-W12



ELEVATION "B-B"

SECTION "A-A"

I.D. (IN.)	11.25°			22.50°			30°			45°			67.50°			90°			I.D. (IN.)
	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	VOL. (C.Y.)	
4.6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4.6,8						
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12						
16,18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16,18						
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.5	20						
24	8.2	4.4	17.3	8.7	22.8	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24						
30	10.5	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30						
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	78.4	38.2	36						
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42						
48	26.5	13.2	51.9	26.0	67.9	33.9													