



Basin Area	Existing Input and Flow Summary			
	Area (ac)	Total IC (%)	SCS Weighted Curve Number	Tc-Total (min)
EX DA-1	1 5000	10 00	79 00	12 19
	Existing flow Summary			
EX DA-1	2-Year (cfs)	10-Year (cfs)	25-Year (cfs)	100-Year (cfs)
	2 74	5 78	8 11	12 48

NOTE: DISCHARGE CALCULATIONS DERIVED FROM BENTLEY PONDPACK HYDRAULIC MODELING SOFTWARE USING NRCS METHOD.

PRE-DEVELOPED TIME OF CONCENTRATION CALCULATIONS

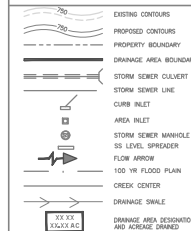
EX DA 1	$(0.42(nL)^{0.8}) / ((2 \text{ yr-24 hr rainfall})^{0.5}(s)^{0.4})$	$L/(60(16.1345)(s)^{0.5})$	$L/(60(20.3282)(s)^{0.5})$
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Length n	Sheet Flows		Concentrated Flows - Unpaired		Concentrated Flows - Paired	
	100.00	0.00	154.00	0.00	0.00	0.00
Diff. in elev.(e)	0.40		0.24	0.00	0.00	
Slopes=e/n	7.03		7.90	0.00	0.00	0.00
Tc	0.07	0.00	0.06	0.00	0.00	0.00
	11.44	0.00	7.75	0.00	0.00	0.00

Concentrated Flows - Channel		
Length	1.00	0.0
n	0.07	0.0
Velocity	21.59	0.0
Hydraulic R	1.00	0.0
Dff elev	1.00	
Slope	1.00	
Tc	0.00	#REF!

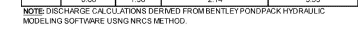
Dist/velocity	Sum
Pipe Flow	
	0.00
	0.00
	0.00
	12.19

LEGEND AND NOTES



NORTH ARROW



COA CASE NO: SP-2020-0364C



811

AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT

about 100.

RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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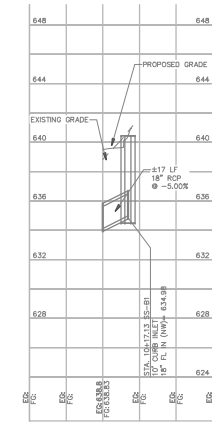
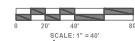
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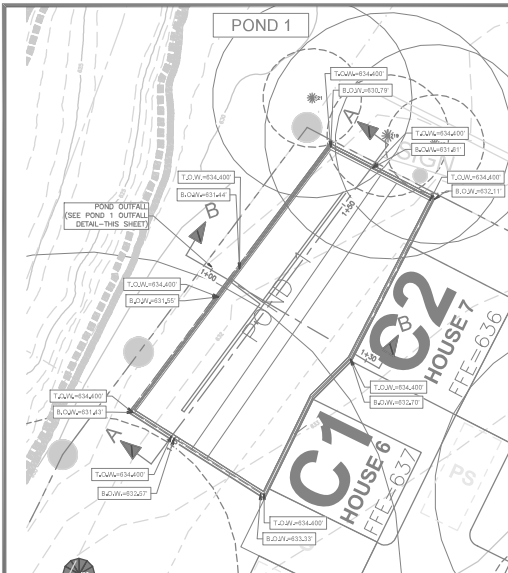
SHEET NO. **13** OF **37**



A keymap showing a residential neighborhood with a grid of streets. A black rectangle highlights a specific area in the center of the map, indicating the location of the study area. The map is labeled 'KEYMAP' in the top left corner.

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PAGE	19003839
SHEET NO.	

2020-0364C



Appendix R-3

Partial Sedimentation / Filtration Pond Calculations For Development Permits

Drainage Area Data		
Drainage Area to Control		0.59 ac.
Drainage Area Impervious Cover (IC)		45 %
Additional Capture Required (enter 1 for yes)		0
Capture Depth (CDD)(0.8" + (IC-20)/100)		0.80 ft.

Water Quality Control Calculations		
The Water Quality Control is to be PARTIAL Sedimentation/Filtration		
Site Area Draining to Pond		0.59 ac.
Total Area Draining to the Pond		0.59 ac.
Design Peak Flow Rate (Q25)		2.57 cfs.
Design Peak Flow Rate (Q100)		4.02 cfs.

Water Quality Volume (Q25)		Required	Provided
Water Quality Volume (Q25)	1071		1245 cf.
Maximum Ponding Depth above Sand Bed (H)		see table below	1.5 ft.
Sedimentation Pond Area	214		710 sf.
Sedimentation Pond Volume (≥ 20% WQV)	214		710 sf.
Filtration Pond Area (WQV)(4+1.33H)	201		535 sf.
Filtration Pond Volume	N/A		535 cf.

Water Quality Elevation		
Elevation of Splitter/Overflow Weir (± 0.02 elev)		631.00 ft. msl
Elevation of Top of Gabion Wall (WQ elev -0.5)		630.50 ft. msl

Sedimentation Pond						
Elevation * ft. msl	Depth ft.	Area S.F.	Area Ac.	Avg. Area S.F.	Incl. Vol. C.F.	Total Vol. C.F.
632.00	0.00	710	-	-	-	-
631.00	1.00	710	0.52	710	710	710

Filtration Pond						
Elevation * ft. msl	Depth ft.	Area S.F.	Area Ac.	Avg. Area S.F.	Incl. Vol. C.F.	Total Vol. C.F.
632.00	-	535	-	-	-	-
631.00	1.00	535	0.01	535	535	535

* in one foot or less increments

Appendix R-3 Partial Sedimentation / Filtration Pond Calculations For Development Permits

Drainage Area Data	
Drainage Area to Control	0.50 ac.
Drainage Area Impervious Cover (IC)	45 %
Additional Capture Required (enter 1 for yes)	0
Capture Depth (CDD)(0.8" + (IC-20)/100)	0.80 ft.

Water Quality Control Calculations	
The Water Quality Control is to be PARTIAL Sedimentation/Filtration	
Site Area Draining to Pond	0.5 ac.
Total Area Draining to the Pond	0.5 ac.
Design Peak Flow Rate (Q25)	3.17 cfs.
Design Peak Flow Rate (Q100)	5.03 cfs.

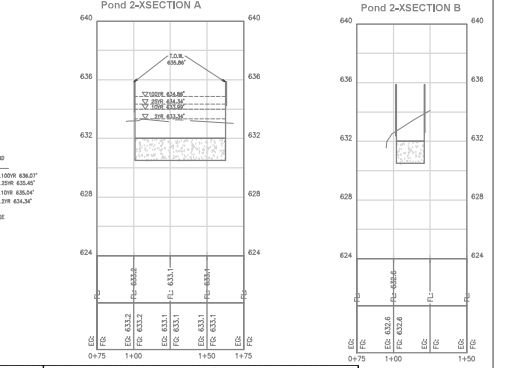
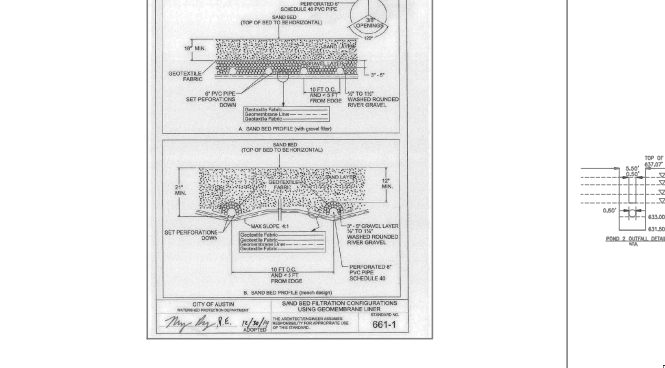
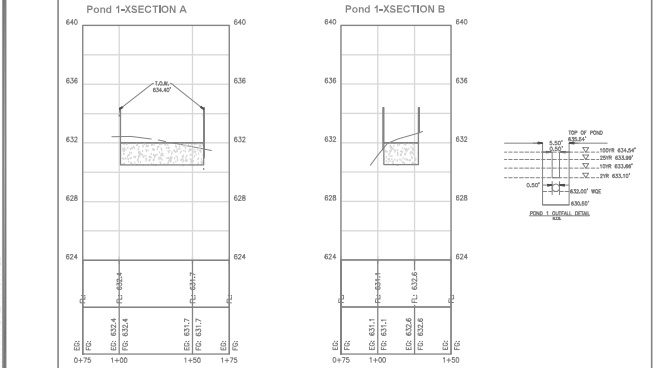
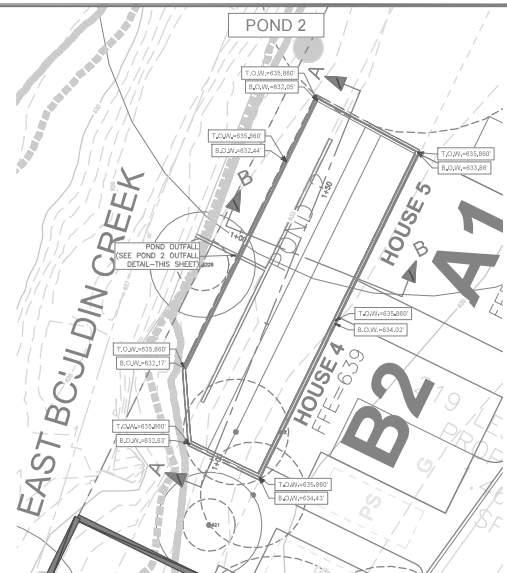
Water Quality Volume (Q25)		Required	Provided
Water Quality Volume (Q25)	908	908	1085 cf.
Maximum Ponding Depth above Sand Bed (H)	see table below	0.5 ft.	
Sedimentation Pond Area	192	553 sf.	
Sedimentation Pond Volume (≥ 20% WQV)	192	553 sf.	
Filtration Pond Area (WQV)(4+1.33H)	185	532 sf.	
Filtration Pond Volume	N/A	532 cf.	

Water Quality Elevation	
Elevation of Splitter/Overflow Weir (± 0.02 elev)	631.00 ft. msl
Elevation of Top of Gabion Wall (WQ elev -0.5)	630.50 ft. msl

Sedimentation Pond						
Elevation * ft. msl	Depth ft.	Area S.F.	Area Ac.	Avg. Area S.F.	Incl. Vol. C.F.	Total Vol. C.F.
631.00	0.00	553	-	-	-	-
631.00	1.00	553	0.01	553	553	553

Filtration Pond						
Elevation * ft. msl	Depth ft.	Area S.F.	Area Ac.	Avg. Area S.F.	Incl. Vol. C.F.	Total Vol. C.F.
631.00	-	532	-	-	-	-
631.00	1.00	532	0.01	532	532	532

* in one foot or less increments



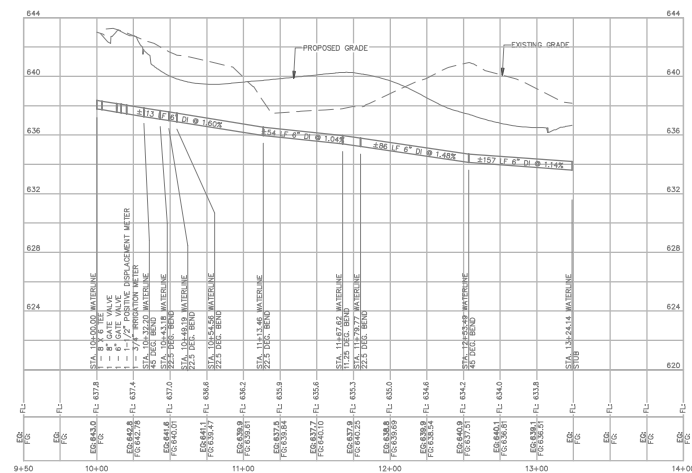
Broad Crested Weir

Weir #	Length (ft)	Weir Crest Elev. (ft)
Pond 1 Overflow Weir	5.00	633.39

Broad Crested Weir

Weir #	Length (ft)	Weir Crest Elev. (ft)
Pond 2 Overflow Weir	5.00	634.66

C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
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COA CASE NO: SP-2020-0364C

NOTICE:
 PRODUCTION SAFETY IS THE
 RESPONSIBILITY OF THE
 CREW. NEITHER THE OWNER
 NOR THE CREW SHALL BE
 HELD RESPONSIBLE FOR SAFETY OF
 ANY PERSONS ENGAGED IN
 THE WORK, OF ANY NATURE,
 OR OF ANY OTHER
 PERSONS.

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8701 W. HIGHWAY 71, SUITE 2010
AUSTIN, TEXAS 78736
PHONE: (409) 899-0536
WWW.KFMALC.COM
TYPE # P-200921

URBAN ATX
LESSIN LANE VILLAS
WASTEWATER
PLAN & PROFILE

February 16, 2021

SITE PLAN RELEASE Sheet 16 of 37

FILE NUMBER: SP-2020-0304C EXPIRATION DATE: _____

CASE MANAGER: ROSEMARY AWLA APPLICATION DATE: SEPT 23, 2020

APPROVED ADMINSTRATIVELY ON: _____

APPROVED BY PLANNING COMMISSION ON: _____

APPROVED BY CITY COUNCIL ON: _____

Under Section 112 of Chapter 256 Of The Austin City Code

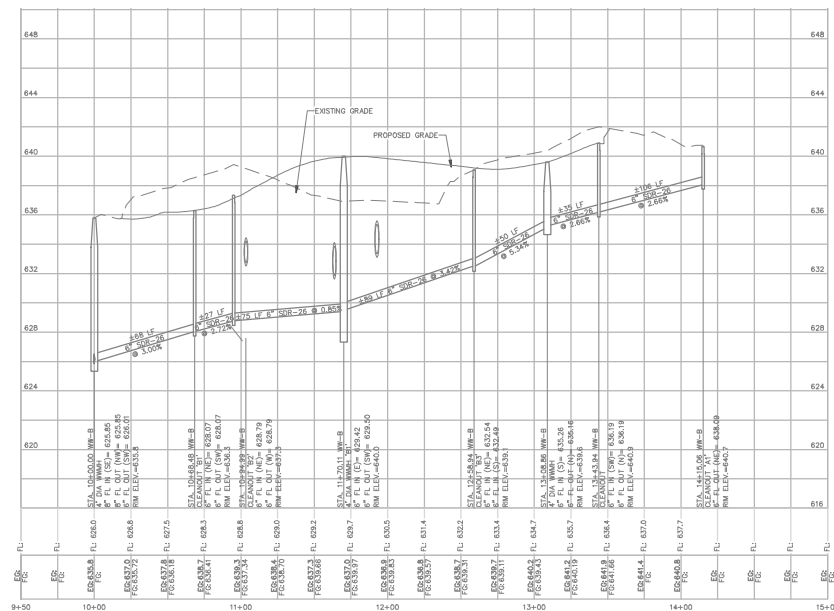
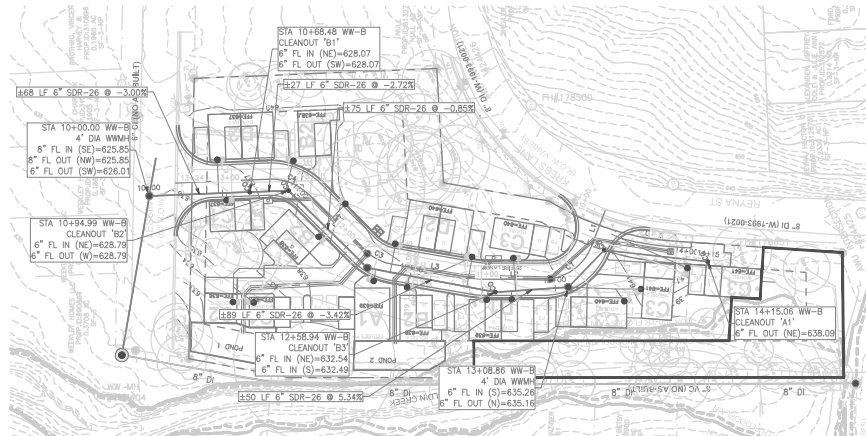
Director, Development Services Department

DATE OF RELEASE: _____ Zoning: _____

Rev 1 _____ Correction 1 _____
Rev 2 _____ Correction 2 _____
Rev 3 _____ Correction 3 _____

CM CH MZ
—
19003839
16 OF 37

COA CASE NO: SP-2020-0364C



	EXISTING CONTOURS
	PHASE BOUNDARY/ROW
	DOUBLE WATER SERVICE
	SINGLE WATER SERVICE
	WTR LN AS NOTED
	AUTOMATIC AIR RELEASE VALVE
	WTR BLOW OFF VALVE
	FIRE HYDRANT
	GATE VALVE AS NOTED
	EX. WATER METER
	ELECTRIC TRANSFORMER
	FITTINGS AS NOTED

WW FM LINE AS NOTED
WW FM CLEAN OUT
WW FLOW ARROW
WW MANHOLE AS NOTED
WW LINE AS NOTED

DOUBLE WASTEWATER SRVC

GRINDER PUMP

SINGLE WASTEWATER SRVC
SS LINE AS NOTED

STORM SEWER MANHOLE
SS BOX CULVERT AS NOTED
SS LATERAL FROM CURB OR
AREA INLET

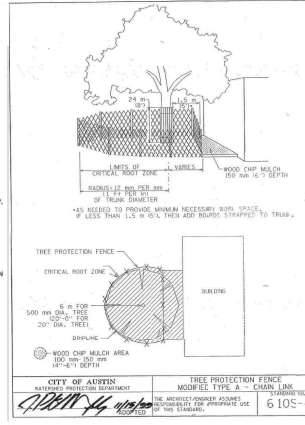
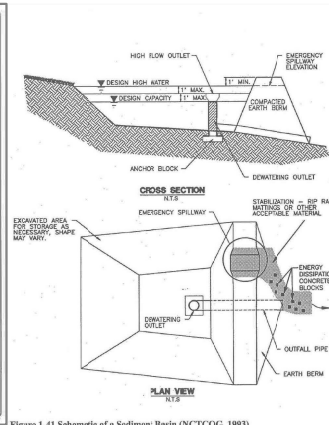
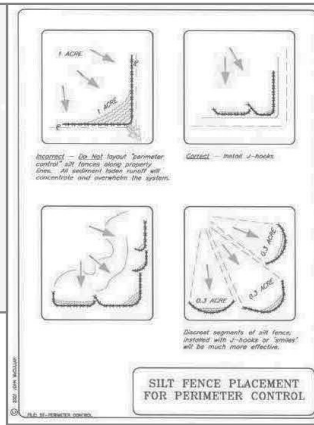
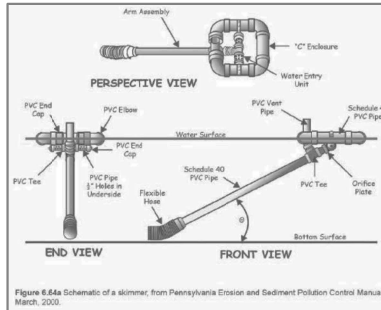
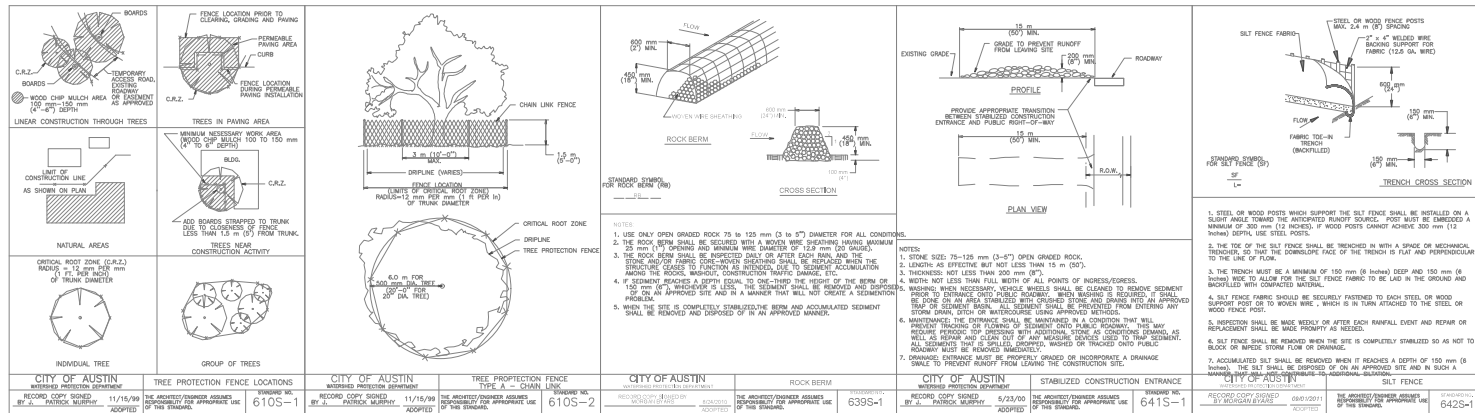
1. WARNING:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES
VERTICALLY AND HORIZONTALLY PRIOR TO
CONSTRUCTION. CONTRACTOR TO NOTIFY THE
ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

CITY OF AUSTIN INTERSECTIONS
WASTEWATER: A4330, A4337
WATER: 24426

0 20' 40' 80'

SCALE: 1" = 40'

VERTICAL SCALE 1" = 4'



Know what's below.
Call before you dig.

THE CITY OF AUSTIN
811
Know what's below.
Call before you dig.

NOTICE: CONSTRUCTION OF ANY TYPE IN THE CITY OF AUSTIN SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN ORDINANCES AND RULES. THE CITY OF AUSTIN SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TYPE OF CONSTRUCTION. THE CITY OF AUSTIN SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TYPE OF CONSTRUCTION.



LESSIN LANE VILLAS
221 LESSIN LANE
AUSTIN, TEXAS

URBAN ATX
LESSIN LANE VILLAS
EROSION SEDIMENTATION
AND TREE PROTECTION
DETAILS

DATE: February 14, 2021

CITY APPROVAL	
SITE PLAN RELEASE	
FILE NUMBER: SP-2023-03640	EXPIRATION DATE: SEPT 23, 2025
APPROVED ADMINISTRATIVELY ON: _____	
APPROVED BY PLANNING COMMISSION OR: _____	
APPROVED BY CITY COUNCIL ON: _____	
Under Section 112 of Chapter 206 of The Austin City Code	
Director, Development Services Department	
DATE OF RELEASE: _____	Zoning: _____
Rev 1: _____	Correction 1: _____
Rev 2: _____	Correction 2: _____
Rev 3: _____	Correction 3: _____
SHEET NO. 17 OF 37	



811
Know what's below.
Call before you dig.

CONSTRUCTION OF THE CITY OF AUSTIN IS THE RESPONSIBILITY OF THE CITY ENGINEER. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE CITY'S WATER AND SEWER SYSTEMS. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE CITY'S WATER AND SEWER SYSTEMS. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE CITY'S WATER AND SEWER SYSTEMS.

KEM
KEM ENGINEERING & CONSTRUCTION, P.C.
1100 N. MOULTON BLVD., SUITE 200
AUSTIN, TEXAS 78701
PH: 512.452.1234
FAX: 512.452.1235
WWW.KEM-ENG.COM

LESSIN LANE ALLIANCE
221 LESSIN LANE
AUSTIN, TEXAS

URBAN ATX
LESSIN LANE VILLAS
WATER DETAILS
SHEET

DATE February 14, 2021

SCALE 1" = 12"

DATE OF RELEASE: _____

Rev 1 _____

Rev 2 _____

Rev 3 _____

Rev 4 _____

Rev 5 _____

Rev 6 _____

Rev 7 _____

Rev 8 _____

Rev 9 _____

Rev 10 _____

Rev 11 _____

Rev 12 _____

Rev 13 _____

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Rev 260 _____

Rev 261 _____

Rev 262 _____

Rev 263 _____



Figure 1: Experimental setup. A participant is seated at a table, viewing a screen. The screen displays a horizontal line with a vertical line intersecting it. The vertical line is labeled 'Vertical line' and the horizontal line is labeled 'Horizontal line'. The participant is looking at the intersection point. The diagram is labeled 'Figure 1' and 'Experimental setup'.

