

REVISIONS

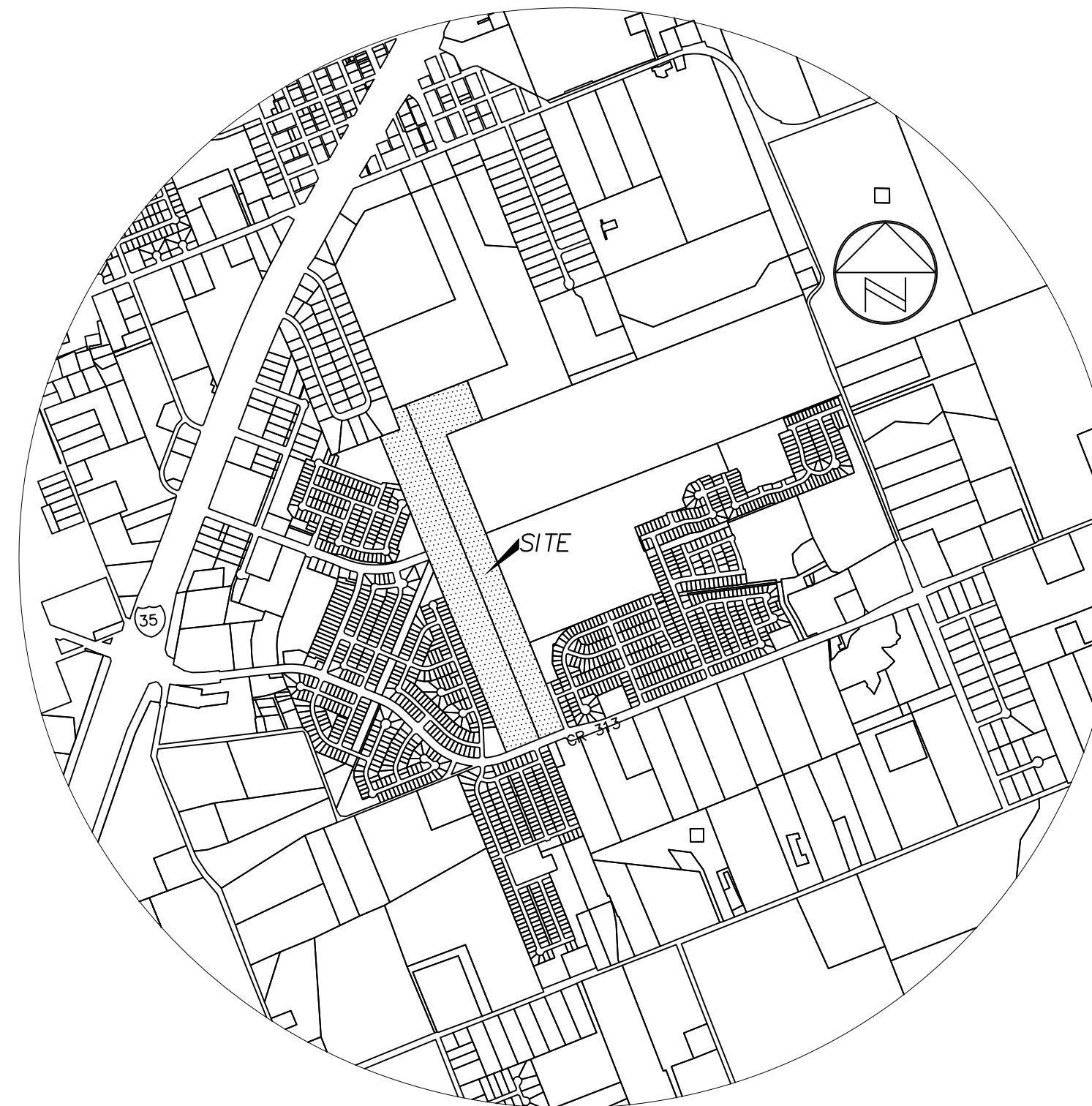
No.	DESCRIPTION	REVISE (R) DELETE (D) ADD (A)	TOTAL SHEETS IN PLAN	NET CHANGE IMPERV. COVER	SITE IMPERV. COVER	% IMP COVER	APPROVAL DATE

OWNERS NAME AND ADDRESS

SONWEST CO.
3571 FAR WEST BLVD.
SUITE 113
AUSTIN, TEXAS 78731
TEL.NO. (512) 738-1411

PRELIMINARY PLAT FOR SONTERRA WEST SECTION 12 SONTERRA MUNICIPAL UTILITY DISTRICT

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13	UTILITY LAYOUT (SHEET 1 OF 2)
14	UTILITY LAYOUT (SHEET 2 OF 2)



VICINITY MAP
NOT TO SCALE

IN
JARRELL, TEXAS
WILLIAMSON COUNTY

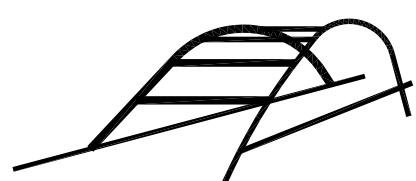
DECEMBER 2017

REVIEWED FOR COMPLIANCE WITH WILLIAMSON COUNTY REQUIREMENTS:

WILLIAMSON COUNTY ENGINEER _____

DATE _____

ENGINEER:



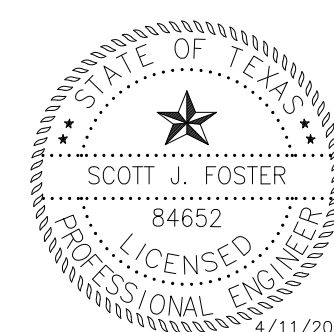
360 PROFESSIONAL SERVICES, INC.

TEXAS REGISTRATION F4932
P.O. BOX 3639
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4682
CONTACT: SCOTT J. FOSTER, P.E.

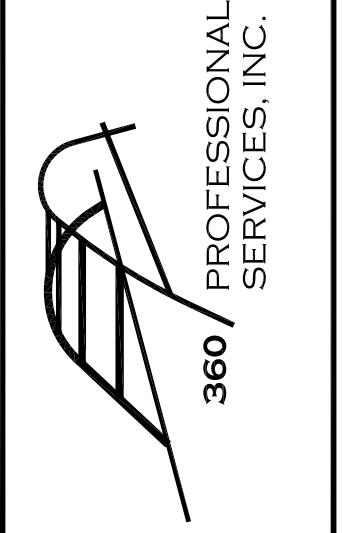
SURVEYOR:

LENZ & ASSOCIATES, INC.
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704
PHONE (512) 443-1174
CONTACT: TIMOTHY A. LENZ, RPLS

ENGINEER'S CERTIFICATION:



LICENSED PROFESSIONAL ENGINEER
REGISTRATION NO. 84652
360 PROFESSIONAL SERVICES, INC.
P.O. BOX 3639
CEDAR PARK, TEXAS 78630



**SONTERRA WEST
 SECTION 12
 JARRELL, TEXAS**

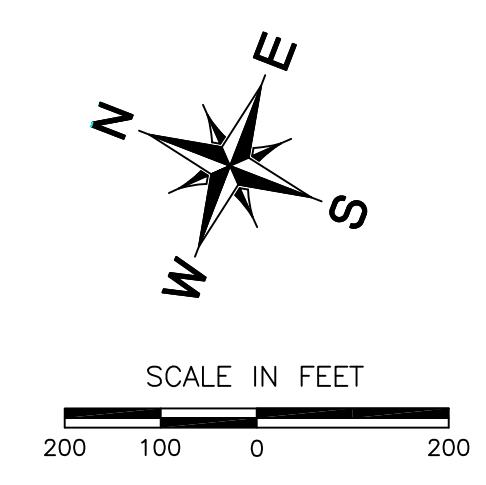
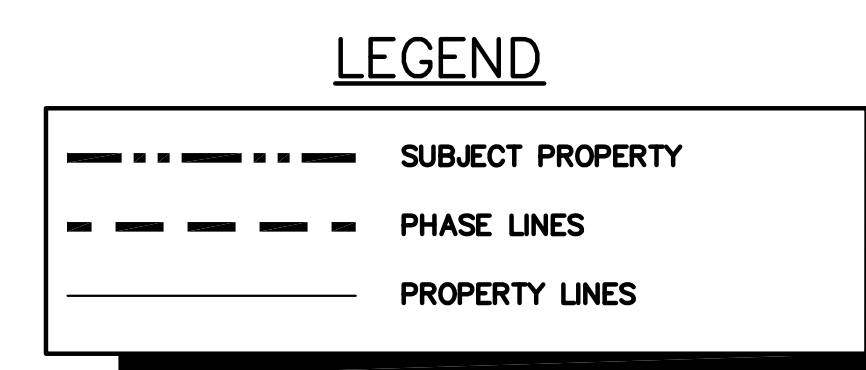
**OVERALL
 PRELIMINARY PLAT**

Scale: AS SHOWN
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 Checked by:
 Date: APRIL 2018
 Project No.

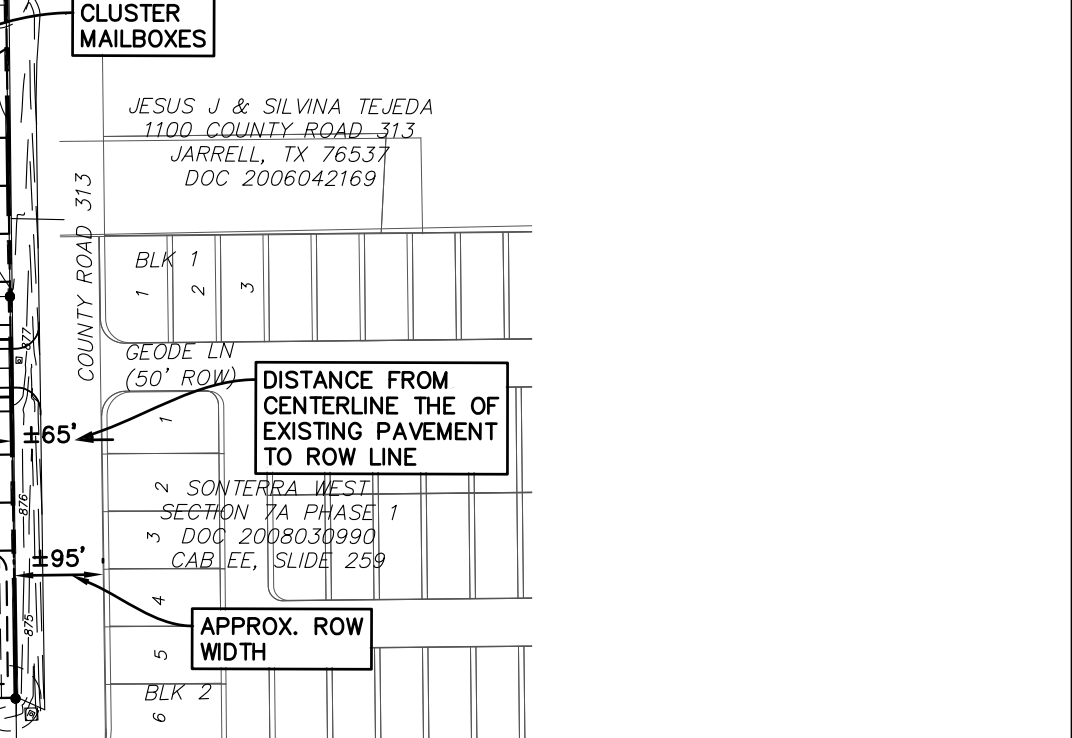
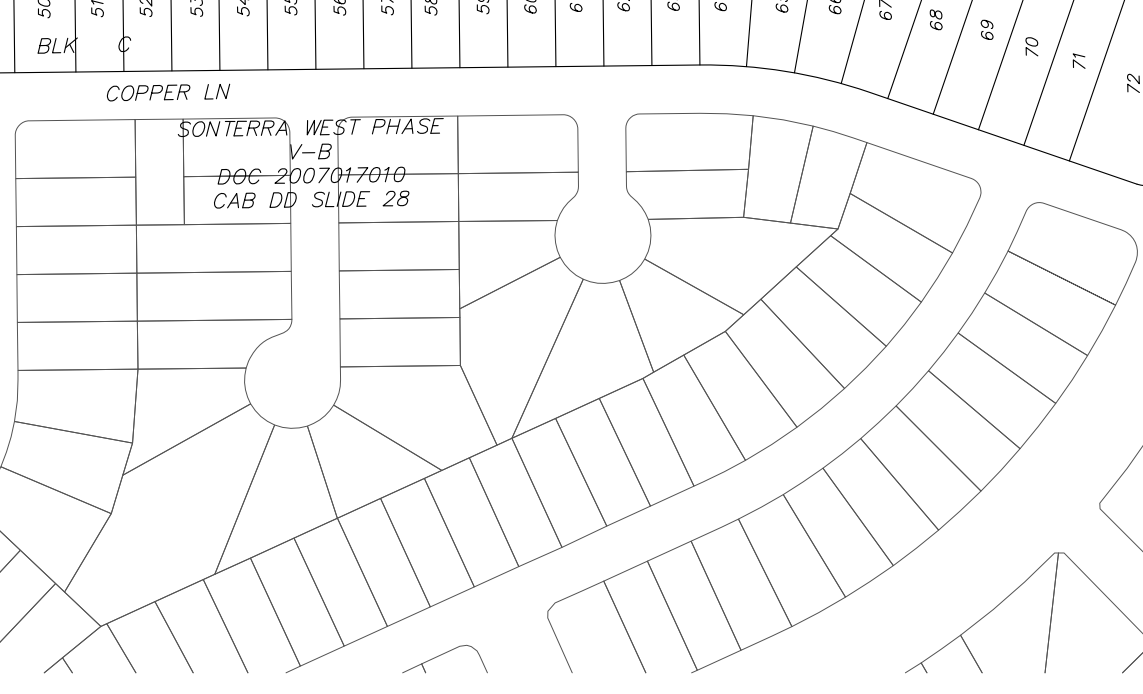
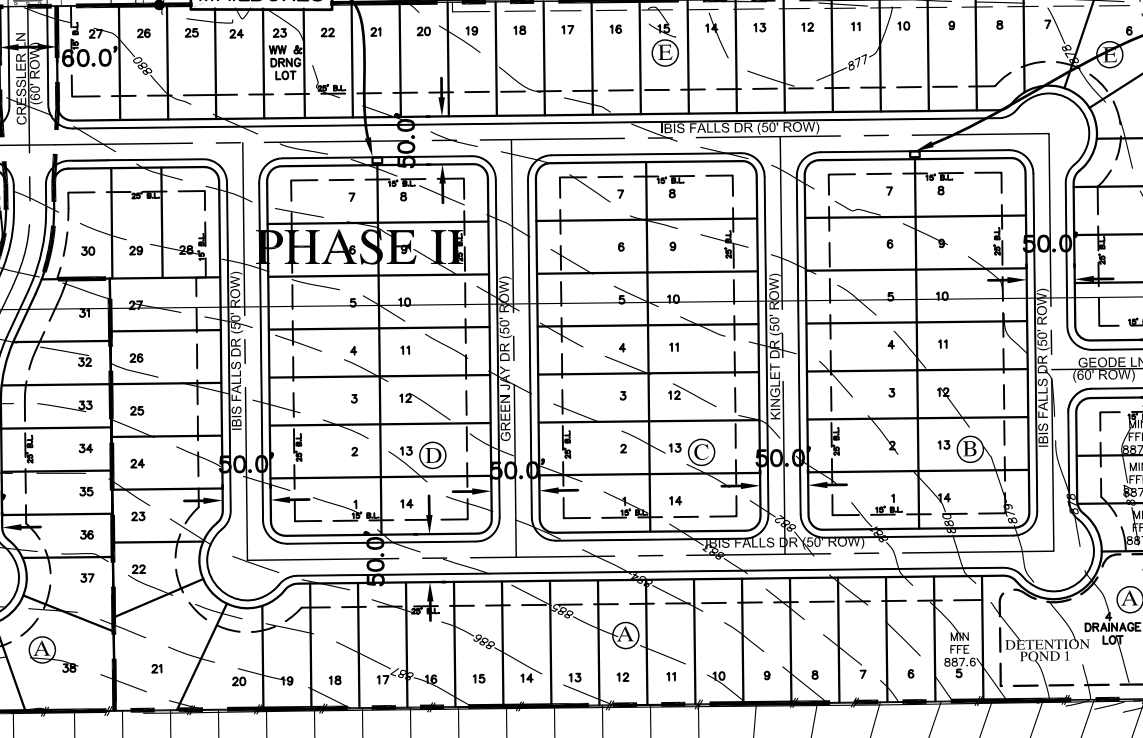
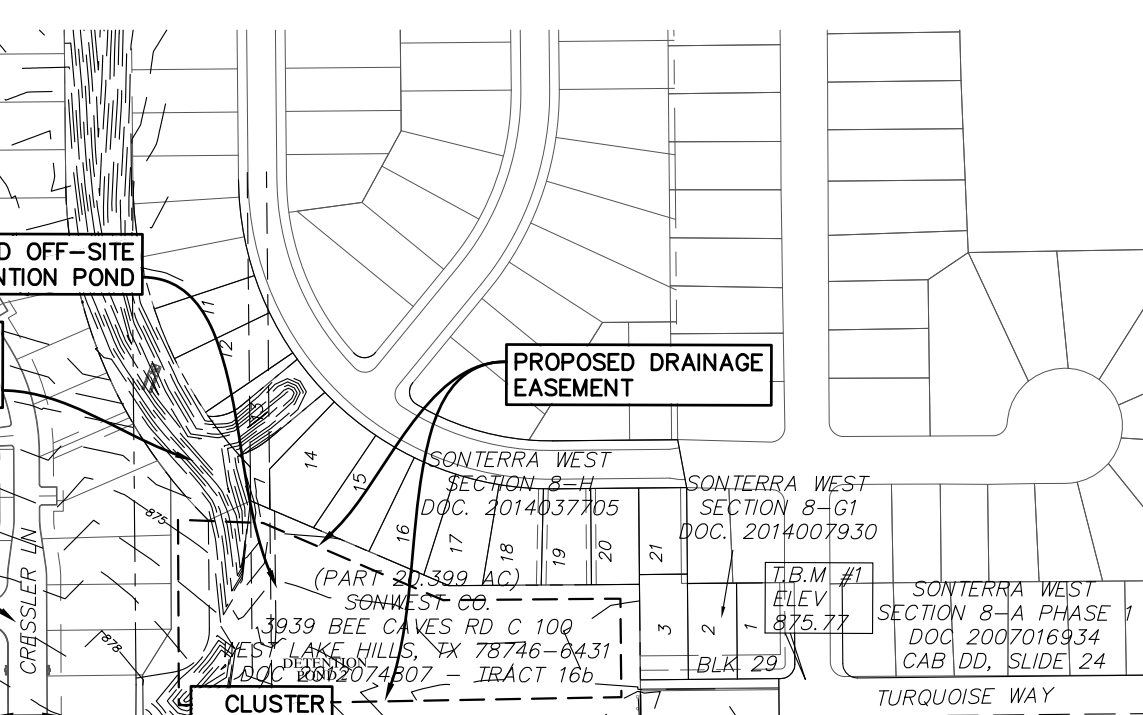
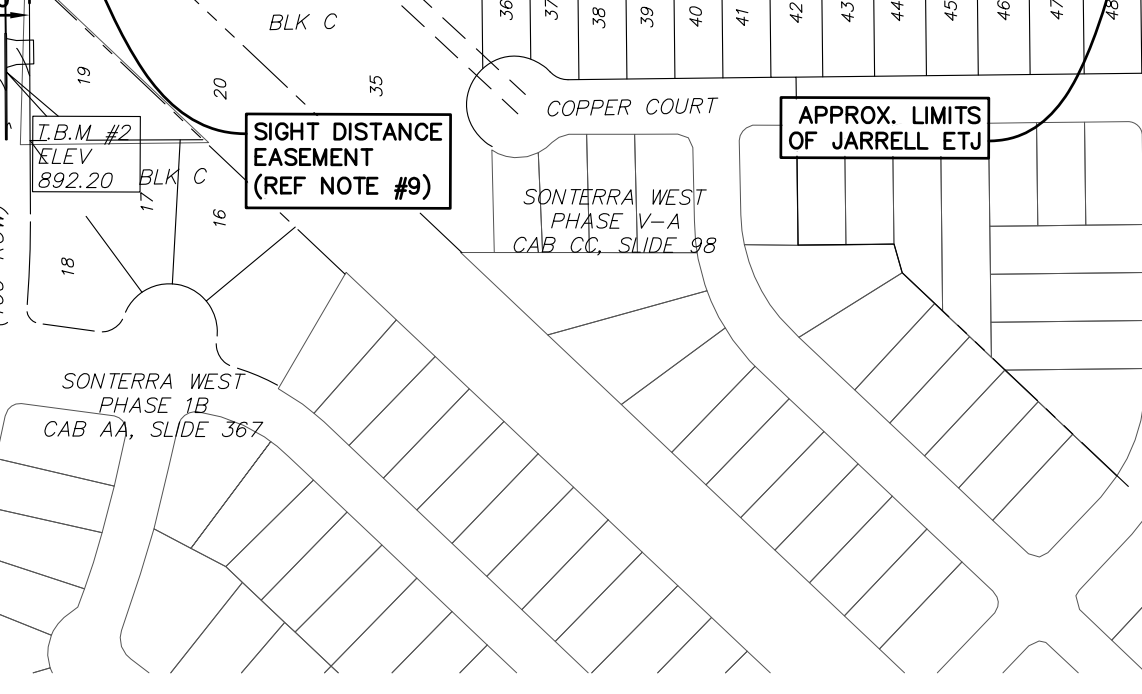
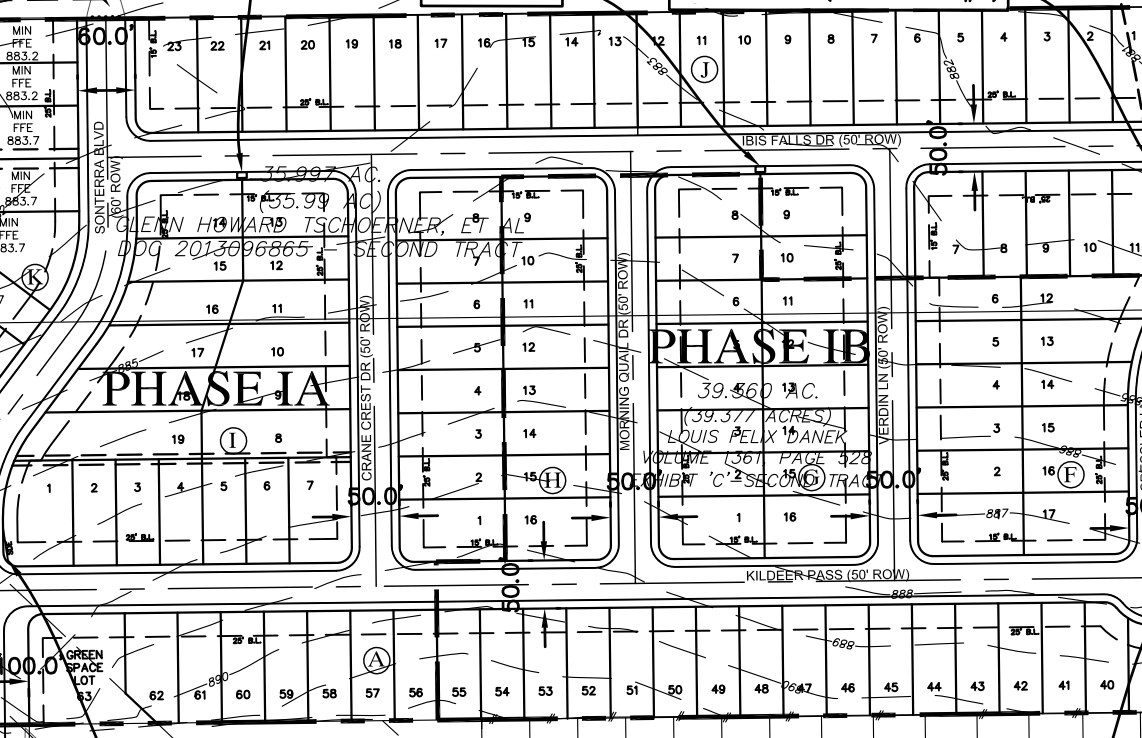
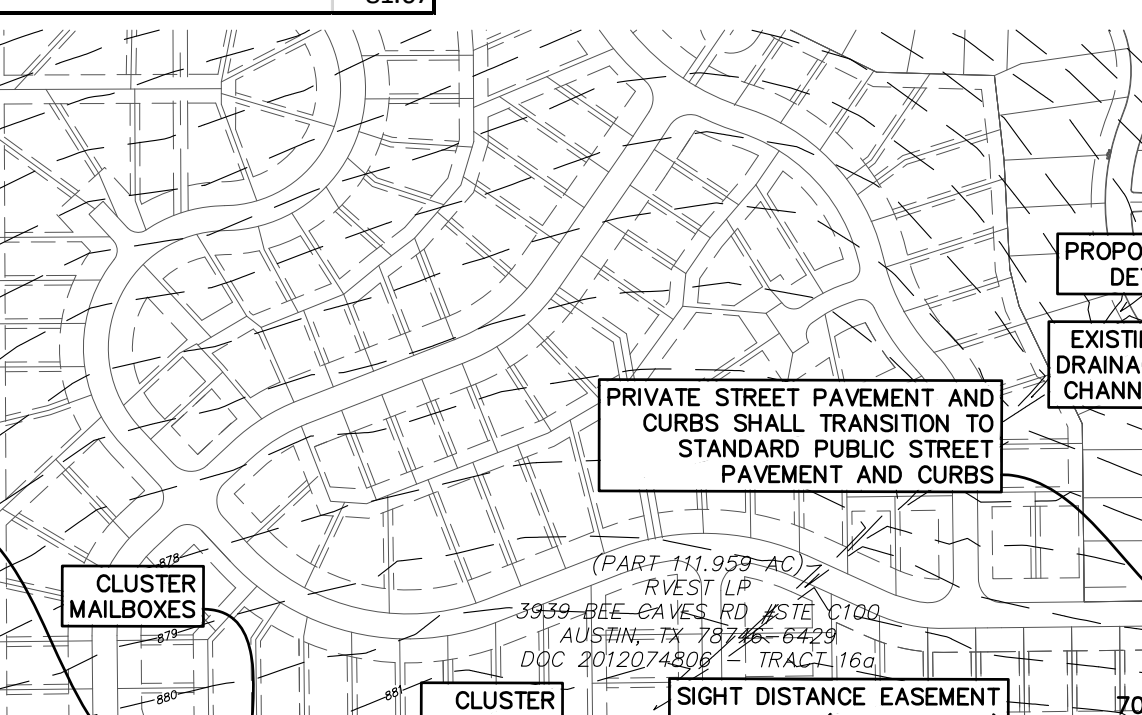
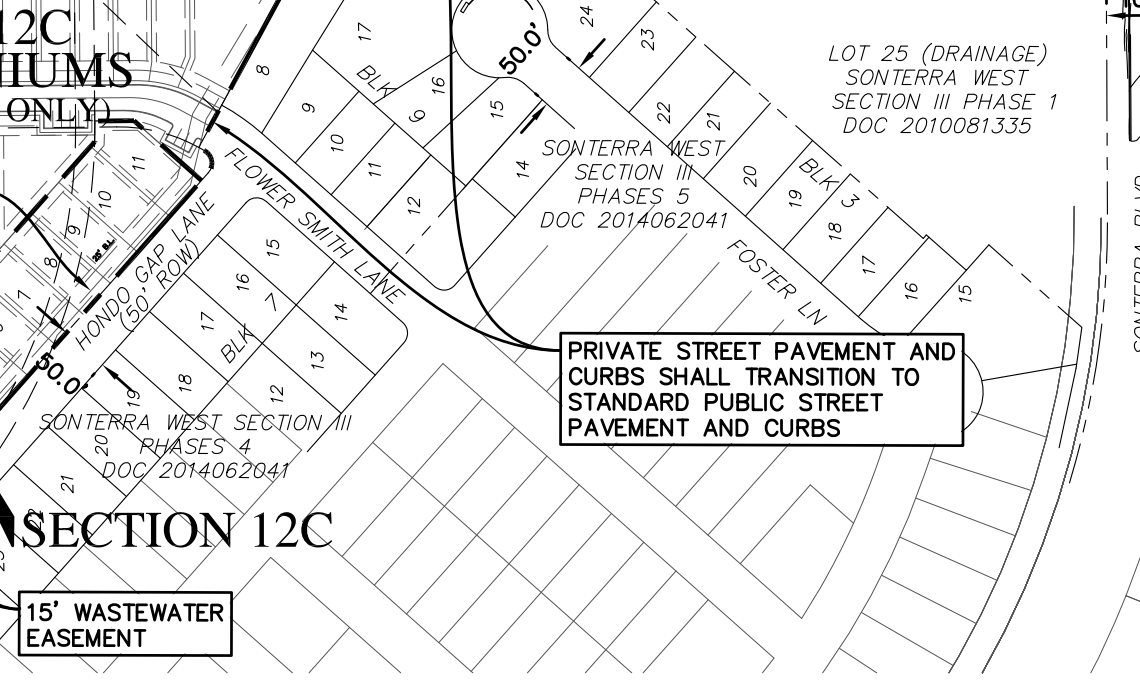
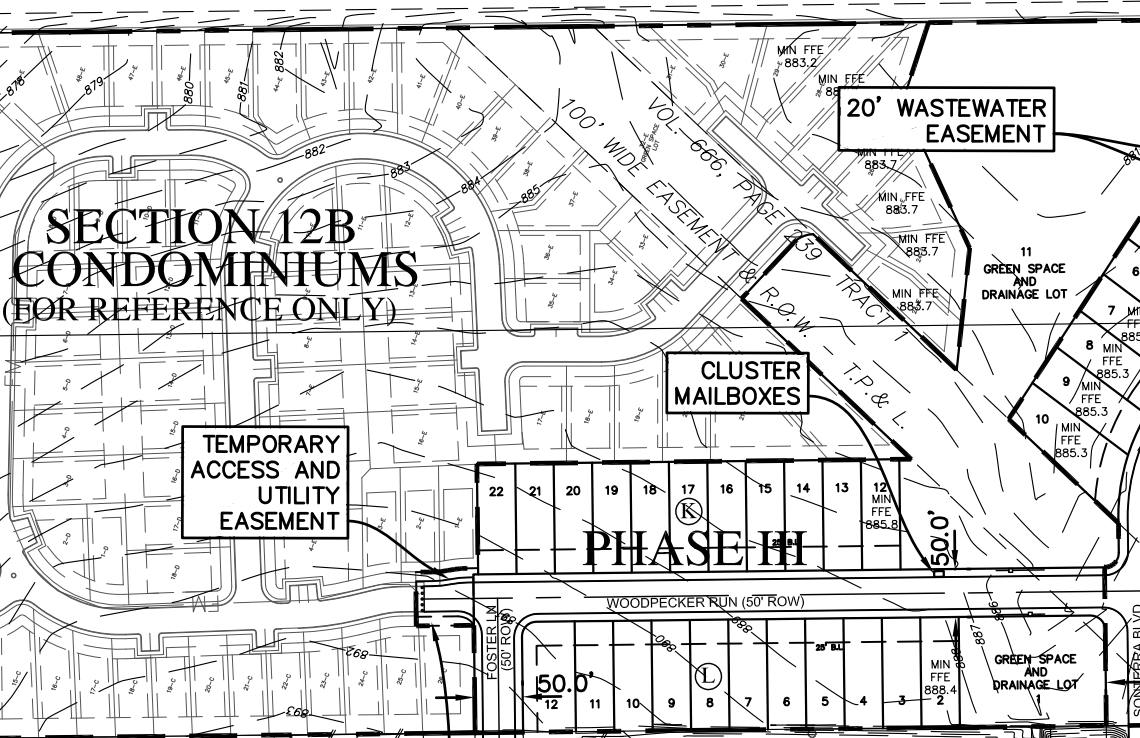
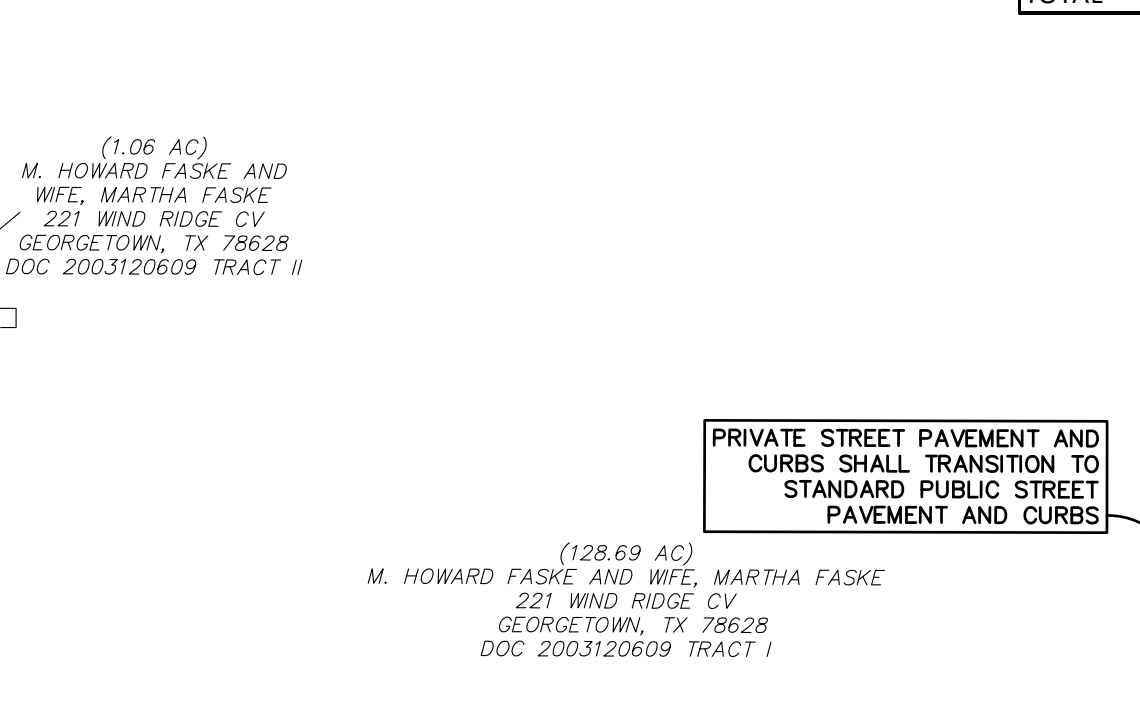
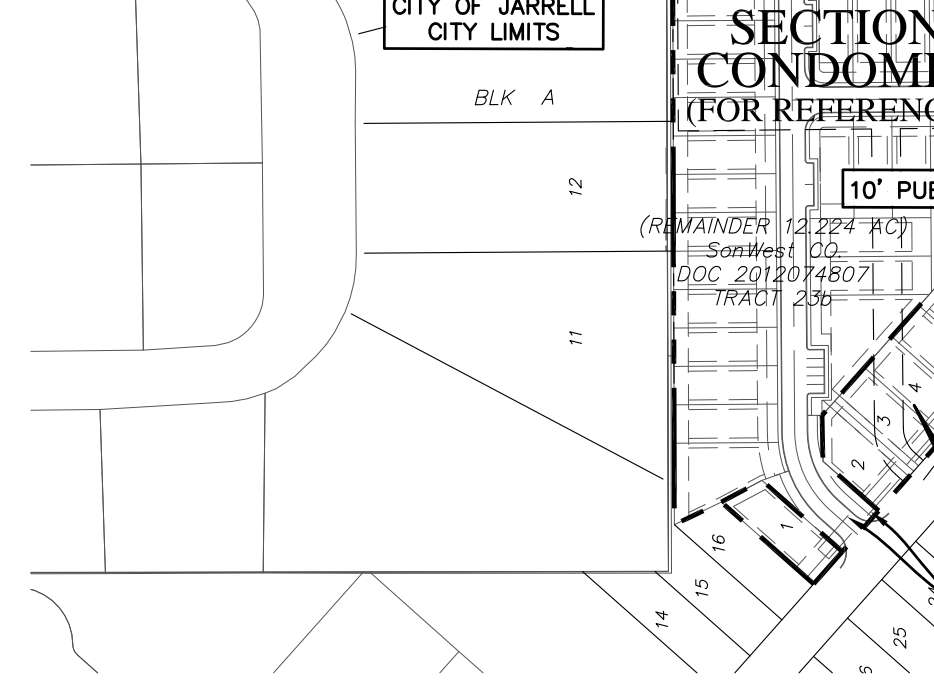
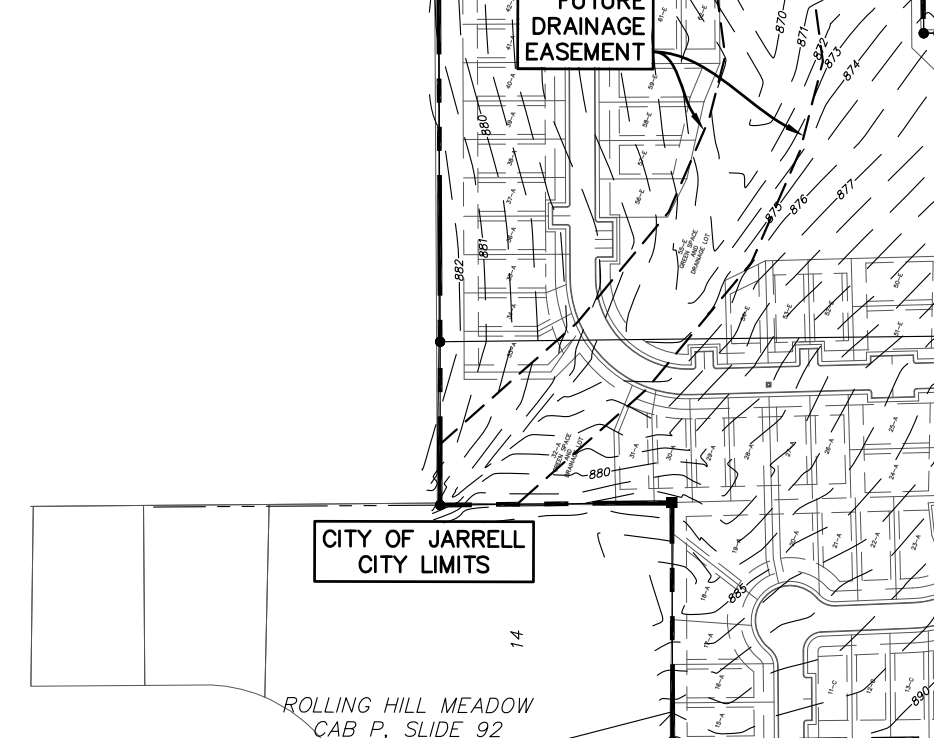
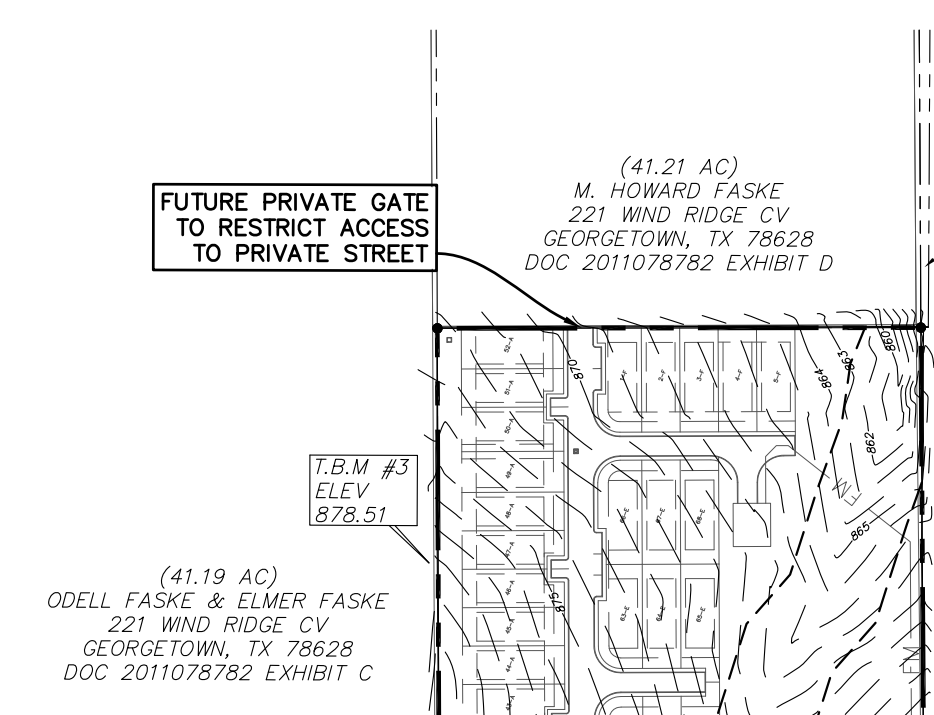
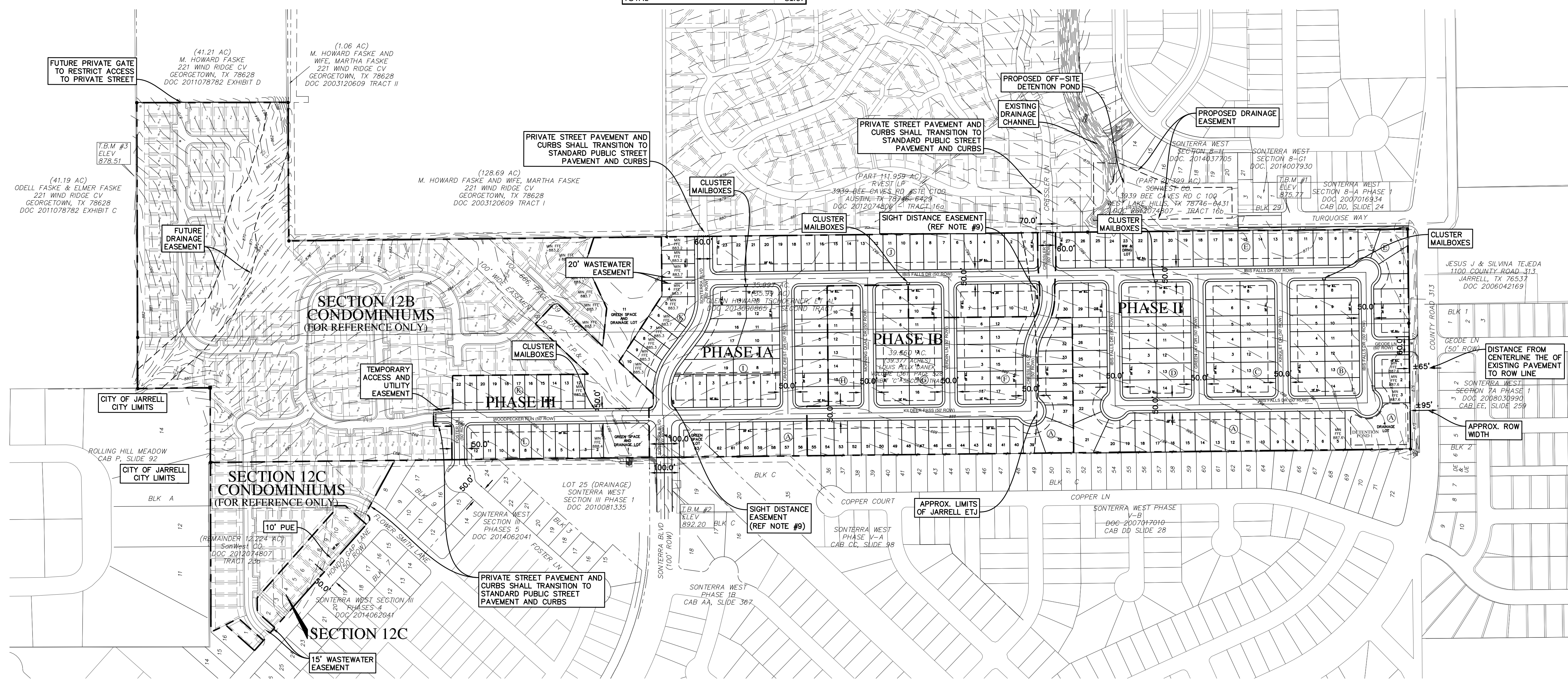
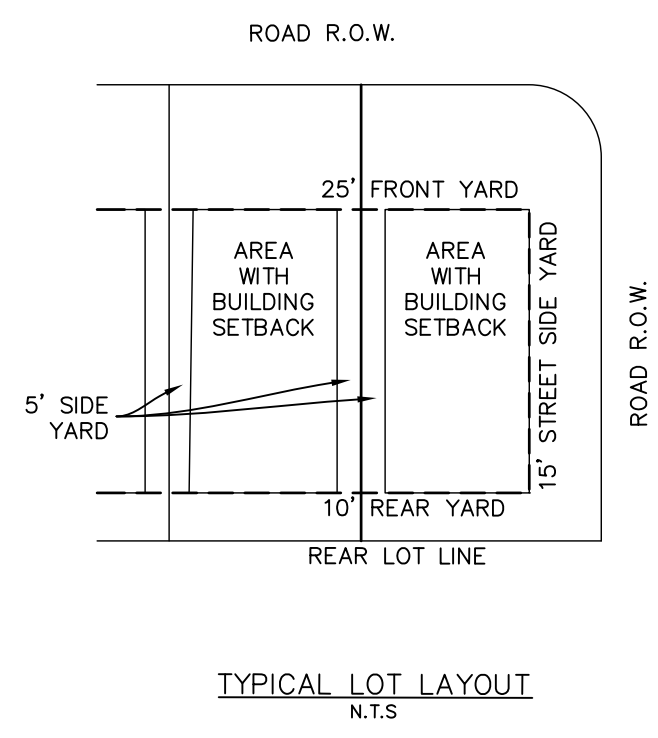
LOT SUMMARY	
PHASE IA (SEE NOTE 10)	
RESIDENTIAL LOTS	74
GREEN SPACE LOT	1
TOTAL	75
PHASE IB (SEE NOTE 10)	
RESIDENTIAL LOTS	59
TOTAL	59
PHASE II	
RESIDENTIAL LOTS	97
DRAINAGE AND WASTEWATER LOT	1
DRAINAGE LOT	1
TOTAL	99
PHASE III	
RESIDENTIAL LOTS	22
GREEN SPACE AND DRAINAGE LOTS	2
TOTAL	24
PHASE IA, IB, II, & III TOTAL	
RESIDENTIAL LOTS	252
NONRESIDENTIAL LOTS	5
SECTION 12C	
RESIDENTIAL LOTS	11
TOTAL	11
AREA (ACRES)	
PHASE IA	13.64
PHASE IB	9.82
PHASE II	19.24
PHASE III	6.57
SECTION 12B CONDOMINIUMS	26.09
SECTION 12C CONDOMINIUMS	4.44
SECTION 12C	1.27
TOTAL	81.07

STREET SUMMARY						
STREET NAME	LENGTH	ROW WIDTH	ROAD WIDTH	ROAD TYPE	DESIGN SPEED	
GEODE LN	141.0'	60'	40'	COLLECTOR	25 MPH	
IBIS FALLS DR (PHASE II)	2744.8'	50'	33'	LOCAL	25 MPH	
IBIS FALLS DR (PHASE I)	1170.2'	50'	33'	LOCAL	25 MPH	
KINGLET DR	435.0'	50'	33'	LOCAL	25 MPH	
GREEN JAY DR	435.0'	50'	33'	LOCAL	25 MPH	
CRESSLER LN	144.4'	60'	40'	COLLECTOR	25 MPH	
VERDIN LN	460.4'	50'	33'	LOCAL	25 MPH	
MORNING QUAIL DR	450.0'	50'	33'	LOCAL	25 MPH	
CRANE CREST DR	450.0'	50'	33'	LOCAL	25 MPH	
SONTERRA BLVD	210.7'	100'	51'	COLLECTOR	40 MPH	
	634.1'	60'	40'	COLLECTOR	25 MPH*	
KILDEER PASS	1228.0'	50'	33'	LOCAL	25 MPH	
WOODPECKER RUN (PHASE I)	45.0'	50'	33'	LOCAL	25 MPH	
WOODPECKER RUN (PHASE III)	709.0'	50'	33'	LOCAL	25 MPH	
FOSTER LN	156.9'	50'	33'	LOCAL	25 MPH	

*A waiver for a reduced speed was granted by Williamson Co.
 Cressler Ln transitions from Collector to Local Street at Ibis Falls Dr.

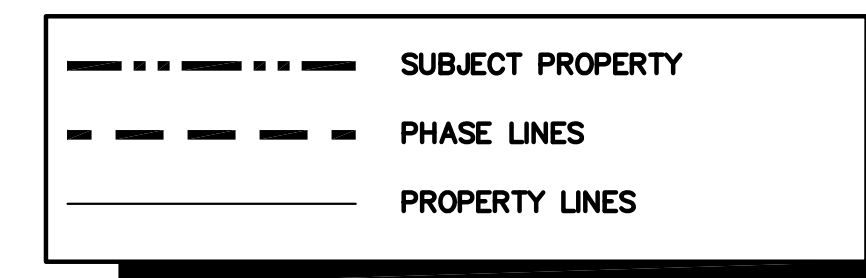


- NOTES:
- ALL LOTS SHALL HAVE A 25' BUILDING SETBACK FROM THE FRONT PROPERTY LINE.
 - WATER AND WASTEWATER SERVICE PROVIDED BY THE SONTERRA MUD.
 - ALL ROADS TO BE PUBLIC.
 - DRIVEWAYS FOR BLOCK A, LOTS 1-4 AND BLOCK E, LOTS 1-6 SHALL CONNECT ONLY TO ROAD B AND NOT TO CR 313.
 - DRIVEWAYS FOR BLOCK A, LOT 1 AND BLOCK E, LOT 1 SHALL CONNECT ONLY TO ROAD B AND NOT TO GEODE LANE.
 - NO PORTION OF THIS SITE IS LOCATED IN THE 100 YEAR FLOODPLAIN PER FIRM PANEL NO 48491C0150E DATED SEPTEMBER 26, 2008 FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS.
 - ALL CONCRETE SIDEWALKS TO BE ADA ACCESSIBLE AND CONSTRUCTED BY RESIDENTIAL HOME BUILDER AT TIME OF HOME CONSTRUCTION.
 - ALL SIDEWALKS ARE TO BE MAINTAINED BY THE ADJACENT OWNER.
 - SIGHT DISTANCE EASEMENT WILL BE REQUIRED AT FINAL PLATTING ON BLOCK I, LOT 1 AND BLOCK F, LOT 11.
 - PHASE 1A AND PHASE 1B TO BE CONCURRENTLY CONSTRUCTED AND PHASE LINE IS FOR PLATTING PURPOSES ONLY.

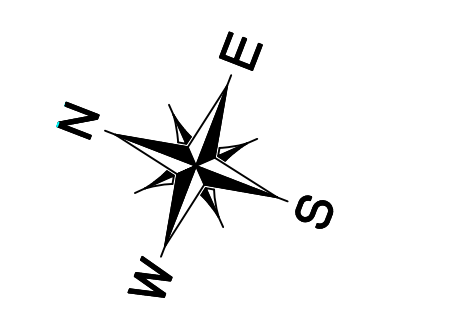


(PART 111.959 AC)
 RVEST LP
 3939 BEE CAVES RD, STE C100
 AUSTIN, TX 78746-6429
 DOC 2012074806 TRACT 16a

LEGEND

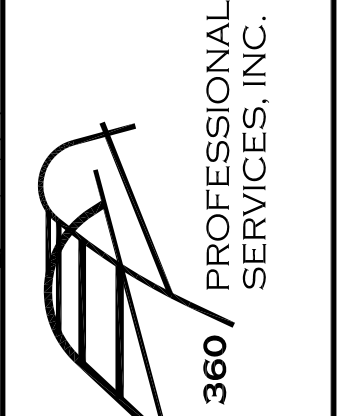


NOTES:
 1. SIGHT DISTANCE EASEMENT WILL BE REQUIRED AT FINAL PLATTING ON BLOCK I, LOT 1 AND BLOCK F, LOT 11.



SCALE IN FEET
 50 25 0 50

TEXAS REGISTRATION F4932
 P.O. BOX 3639
 CEDAR PARK, TEXAS 78613
 PHONE (512) 354-4622

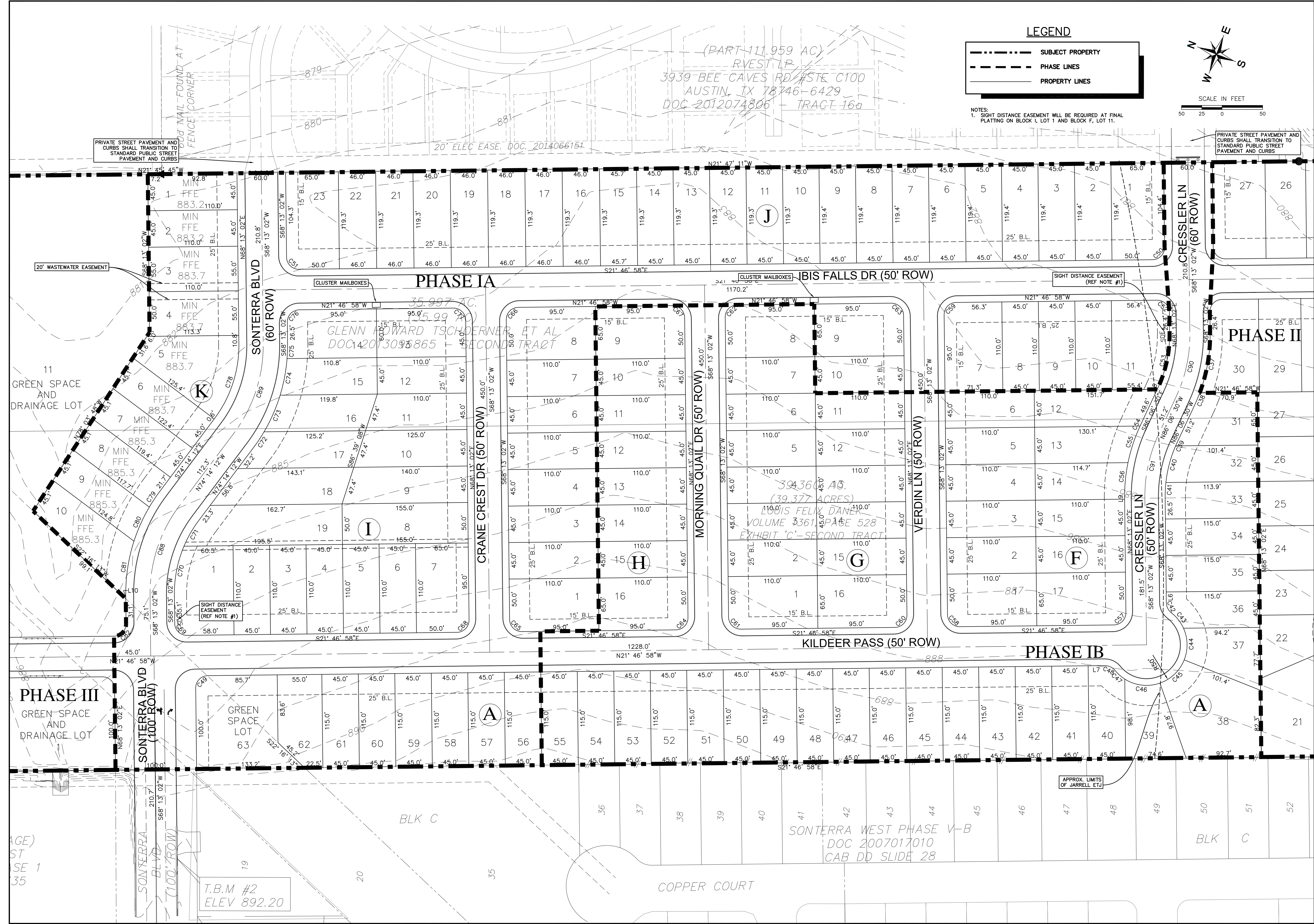


**SONTERRA WEST
 SECTION 12
 JARRELL, TEXAS**

**PRELIMINARY PLAT
 PHASE I**

Scale: AS SHOWN
 Designed by:
 Drawn by:
 Checked by:
 Date: APRIL 2018
 Project No.

SHEET
03



PRIVATE STREET PAVEMENT AND CURBS SHALL TRANSITION TO STANDARD PUBLIC STREET PAVEMENT AND CURBS

PRIVATE STREET PAVEMENT AND CURBS SHALL TRANSITION TO STANDARD PUBLIC STREET PAVEMENT AND CURBS

PHASE IA
 35.997 AC.
 GLENN HOWARD TSCHERNER ET AL
 DOC 12013093865 - SECOND TRACT

CLUSTER MAILBOXES
 BIS FALLS DR (50' ROW)

SIGHT DISTANCE EASEMENT (REF NOTE #1)

CRANE CREST DR (50' ROW)

MORNING QUAIL DR (50' ROW)

VERDIN LN (50' ROW)

KILDEER PASS (50' ROW)

PHASE IB

PHASE III

GREEN SPACE AND DRAINAGE LOT

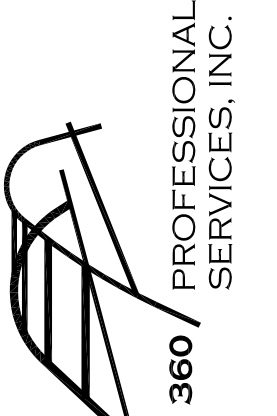
SONTERRA BLVD (100' ROW)

T.B.M #2
 ELEV 892.20

SONTERRA WEST PHASE V-B
 DOC 2007017010
 CAB DD SLIDE 28

COPPER COURT

AGE)
 ST
 SE 1
 35



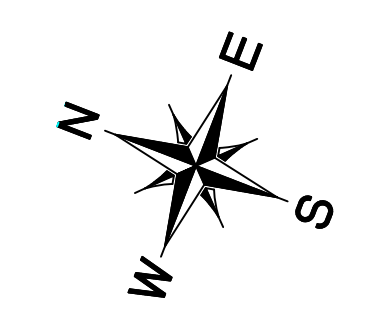
**SONTERRA WEST
 SECTION 12
 JARRELL, TEXAS**

**PRELIMINARY PLAT
 PHASE III**

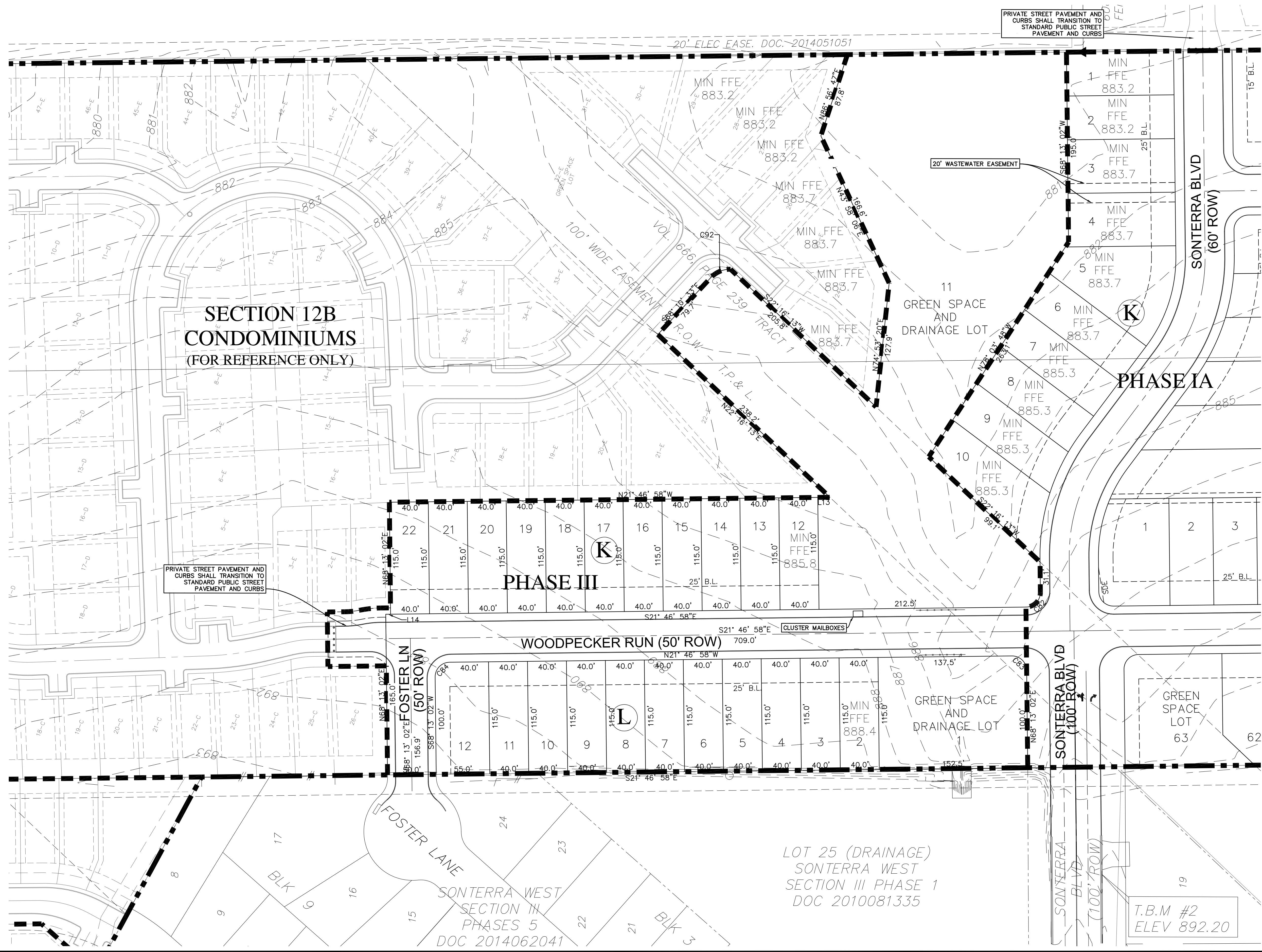
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 Date: APRIL 2018
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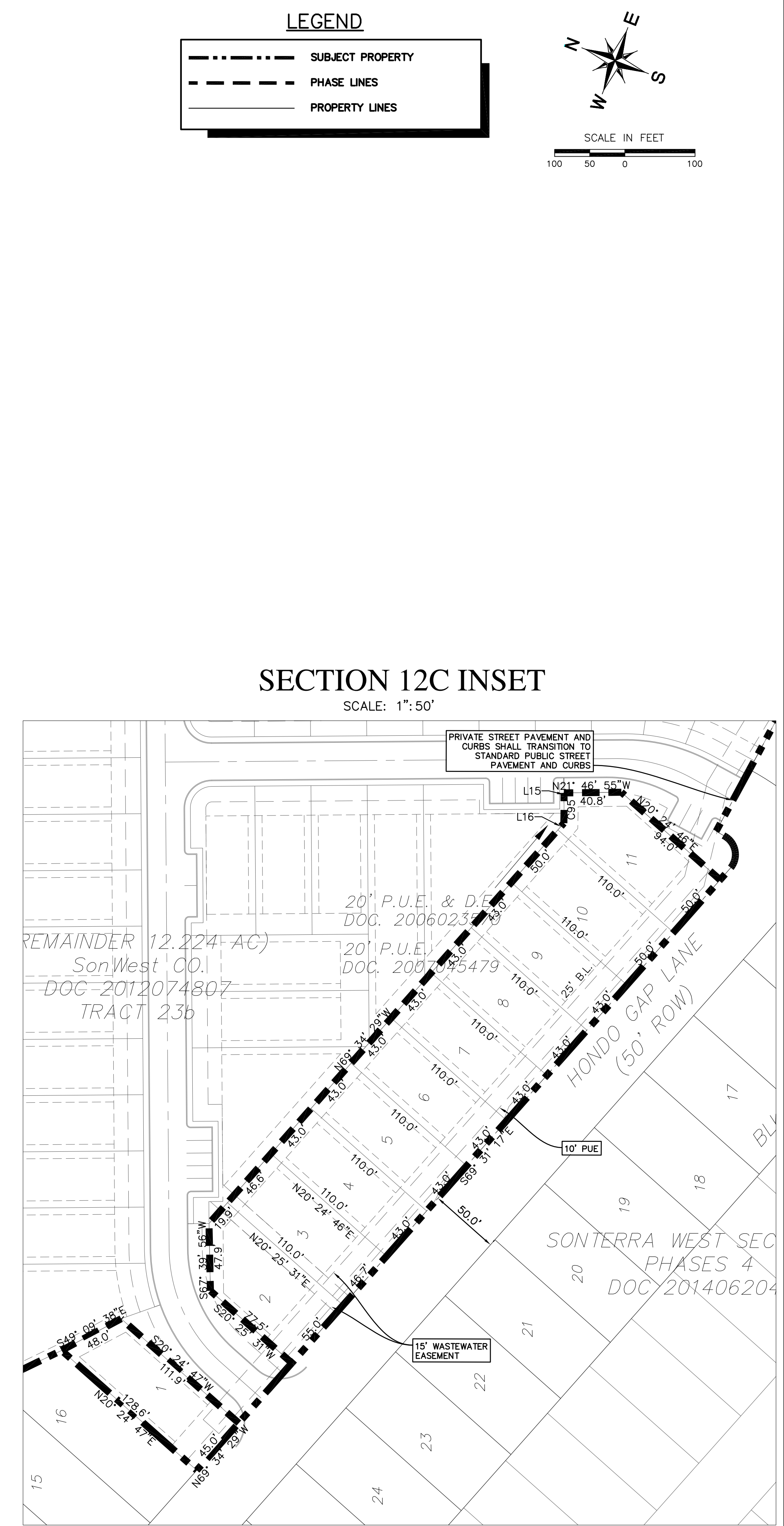
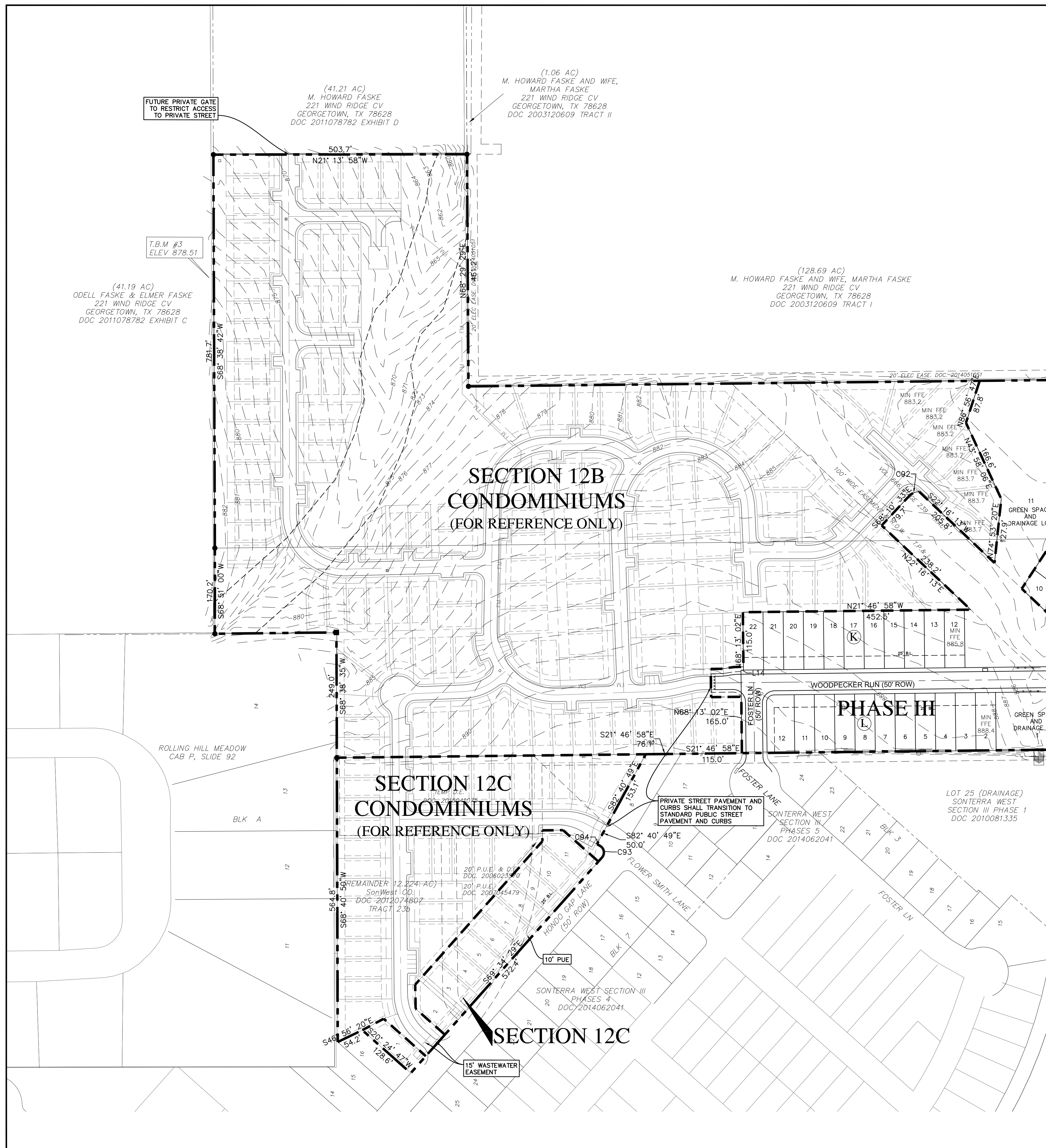
- SUBJECT PROPERTY
- PHASE LINES
- PROPERTY LINES



SCALE IN FEET
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\LAYOUT: 05 PHASE III PLOT DATE: 4/17/2018 1:53:20m PLOTTED BY: EAS
 \PROJECT: 22135 SONTERRA WEST SECTION 12 PHASE III
 \PLOT: 05 PHASE III
 \DATE: 4/17/2018 1:53:20m
 \PLOT: 05 PHASE III
 \DATE: 4/17/2018 1:53:20m



LEGEND

- SUBJECT PROPERTY
- - - PHASE LINES
- ___ PROPERTY LINES

N
E
W
S

SCALE IN FEET

100 50 0 100

TEXAS REGISTRATION F4932
P.O. BOX 3639
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4652

360 PROFESSIONAL SERVICES, INC.



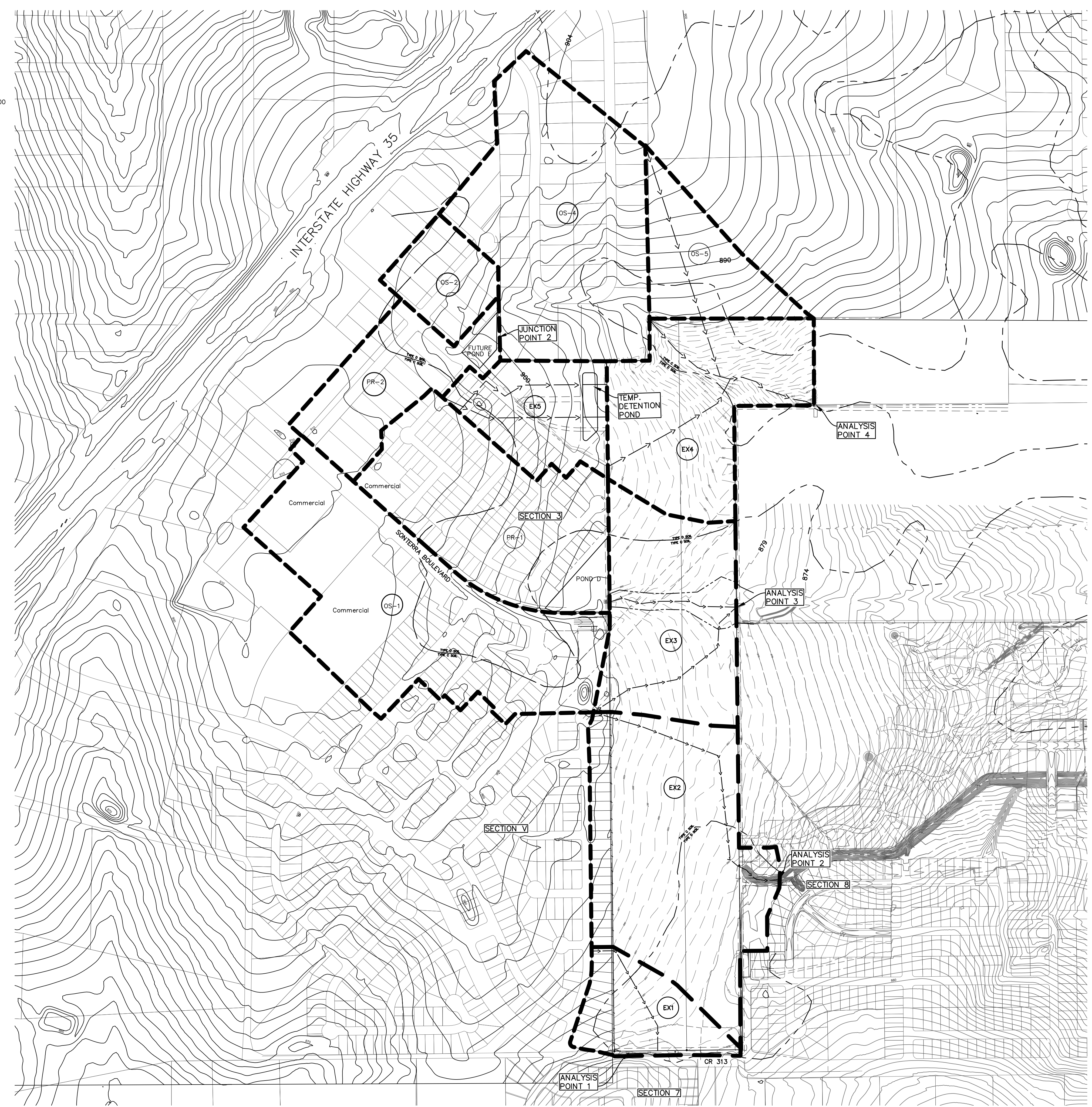
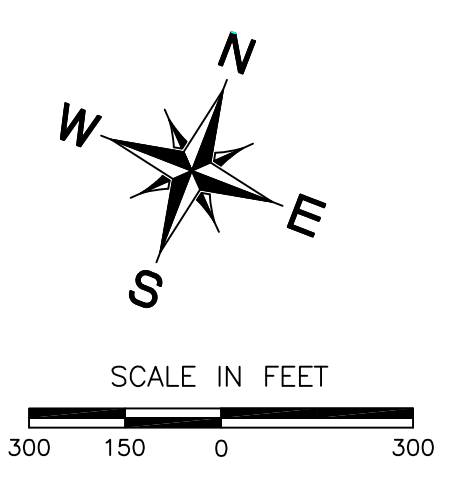
SONTERRA WEST
SECTION 12
JARRELL, TEXAS

PRELIMINARY PLAT
SECTION 12B & 12C

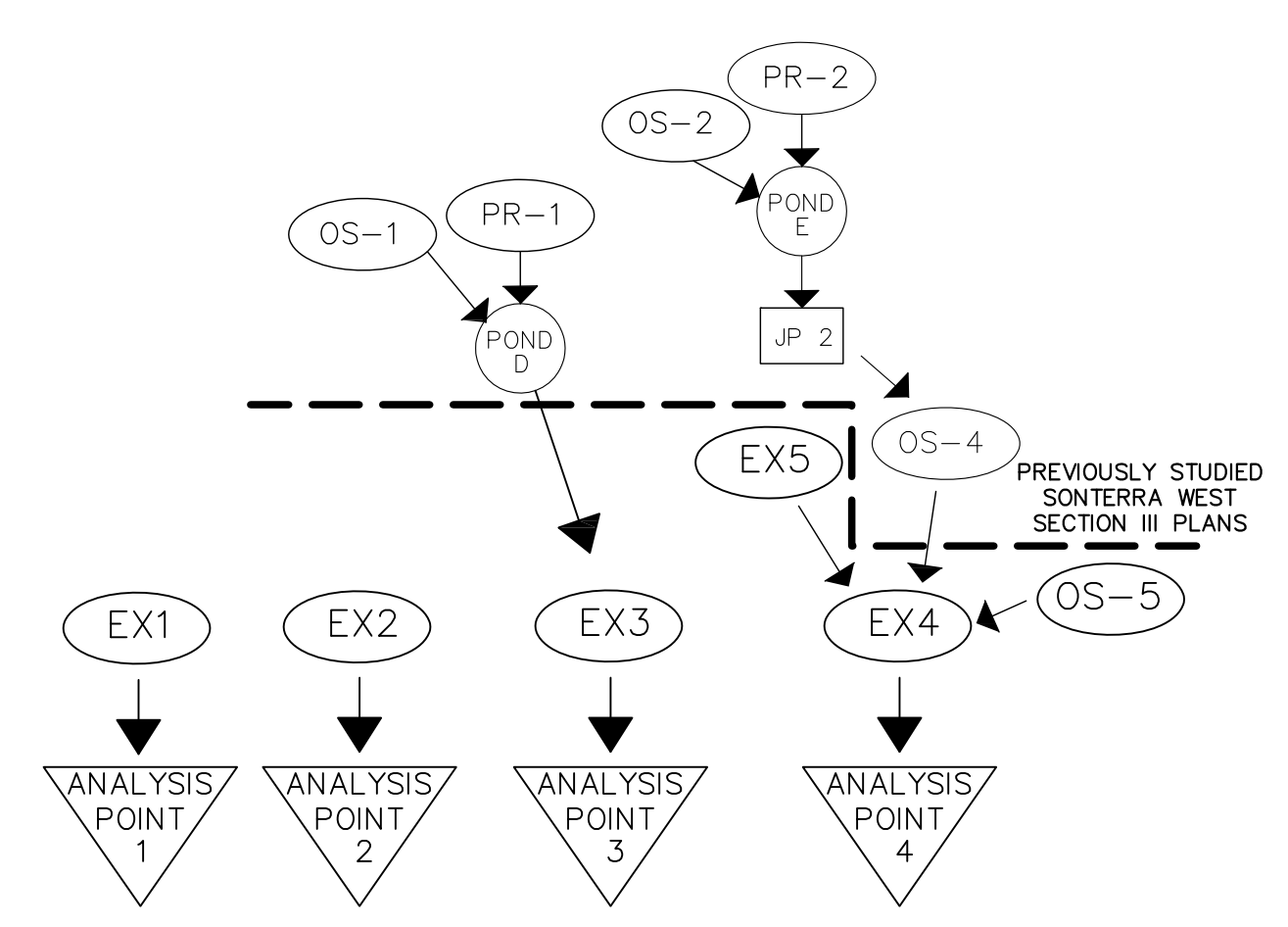
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Date: APRIL 2018
Project No.

SHEET
06

DATE: 04/18/2018 10:58:11 AM PLOT DATE: 04/18/2018 10:58:11 AM PLOTTED BY: tcarl



EXISTING CONDITIONS



EXISTING CONDITIONS - SCS METHOD SUMMARY										
Area ID	DA (ac.)	IC (ac.)	IC (%)	TOC (min.)	TOC (hr.)	CN	Q2	Q10	Q25	Q100
EX1	8.2	1.3	16%	24	0.40	85.3	12	26	26	47
EX2	33.0	2.1	6%	29	0.48	82.1	38	89	120	170
EX3	21.1	0.0	0%	34	0.56	79.6	20	50	68	98
EX4	22.6	0.0	0%	38	0.63	82.4	23	54	73	103
EX5	11.0	0.0	0%	35	0.59	83.4	12	28	37	52
OS-5	10.5	0.0	0%	30	0.49	83.1	13	29	38	54
TOTAL	106.3	3.5	3%							

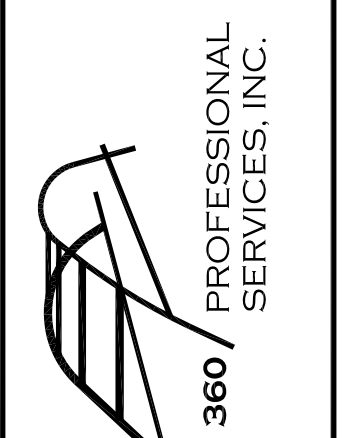
Existing CN Calculation Summary - SCS Methodology						
Drainage Basin	Soil Group	Cover Description	CN	Area (SF)	Area (Ac)	Product
EX1	C	Fair Condition Open Space	79		1.6	128.7
	C	Impervius Cover 1.8 Ac SF - 55% IC	98	80575	1.0	99.7
EX2	C	Fair Condition Open Space	79		18.6	1465.9
	C	Impervius Cover 3.9 Ac SF - 55% IC	98	169571.4	2.1	209.8
EX3	C	Fair Condition Open Space	79	802951	18.4	1456.2
	D	Fair Condition Open Space	84		2.7	223.0
EX4	C	Fair Condition Open Space	79	310964	7.1	564.0
	D	Fair Condition Open Space	84		15.4	1297.3
EX5	C	Fair Condition Open Space	79	53481	1.2	97.0
	D	Fair Condition Open Space	84		9.7	817.6
OS-5	C	Fair Condition Open Space	79	85950	2.0	155.9
	D	Fair Condition Open Space	84		8.5	713.7
					Totals	869.6
					CN	83.1

*DRAINAGE MODEL ASSUMES RELOCATION OF TEMPORARY DETENTION POND FROM SECTION 3, PHASE 6 (DRAINAGE AREA EX5)

**PER EXISTING PLAT REQUIREMENTS, DETENTION SERVING THE COMMERCIAL TRACTS WITHIN THE OS-2 AND PR-2 DRAINAGE AREAS WILL BE PROVIDED ON AN INDIVIDUAL BASIS UNLESS A REGIONAL STORMWATER DETENTION FACILITY IS CONSTRUCTED TO SERVE SOME OR ALL OF THE LOTS IN THE FUTURE. THUS, THE DRAINAGE MODEL ASSUMES FUTURE POND E HAS BEEN CONSTRUCTED.

- NOTES:
- ON-SITE DATA BY LENZ AND ASSOCIATES, INC DATED APRIL 2017. OTHER DATA SHOWN PROVIDED BY WILLIAMSON COUNTY, CAPCOG GIS, AND PAPE-DAWSON ENGINEERS, INC. NO WARRANTY IS EXPRESSED OR IMPLIED AS TO ITS ACCURACY.
 - REFER TO THE DRAINAGE REPORT OF ADDITIONAL INFORMATION.

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P.O. BOX 3639
CEDAR PARK, TEXAS 78613
PHONE (512) 354-4652

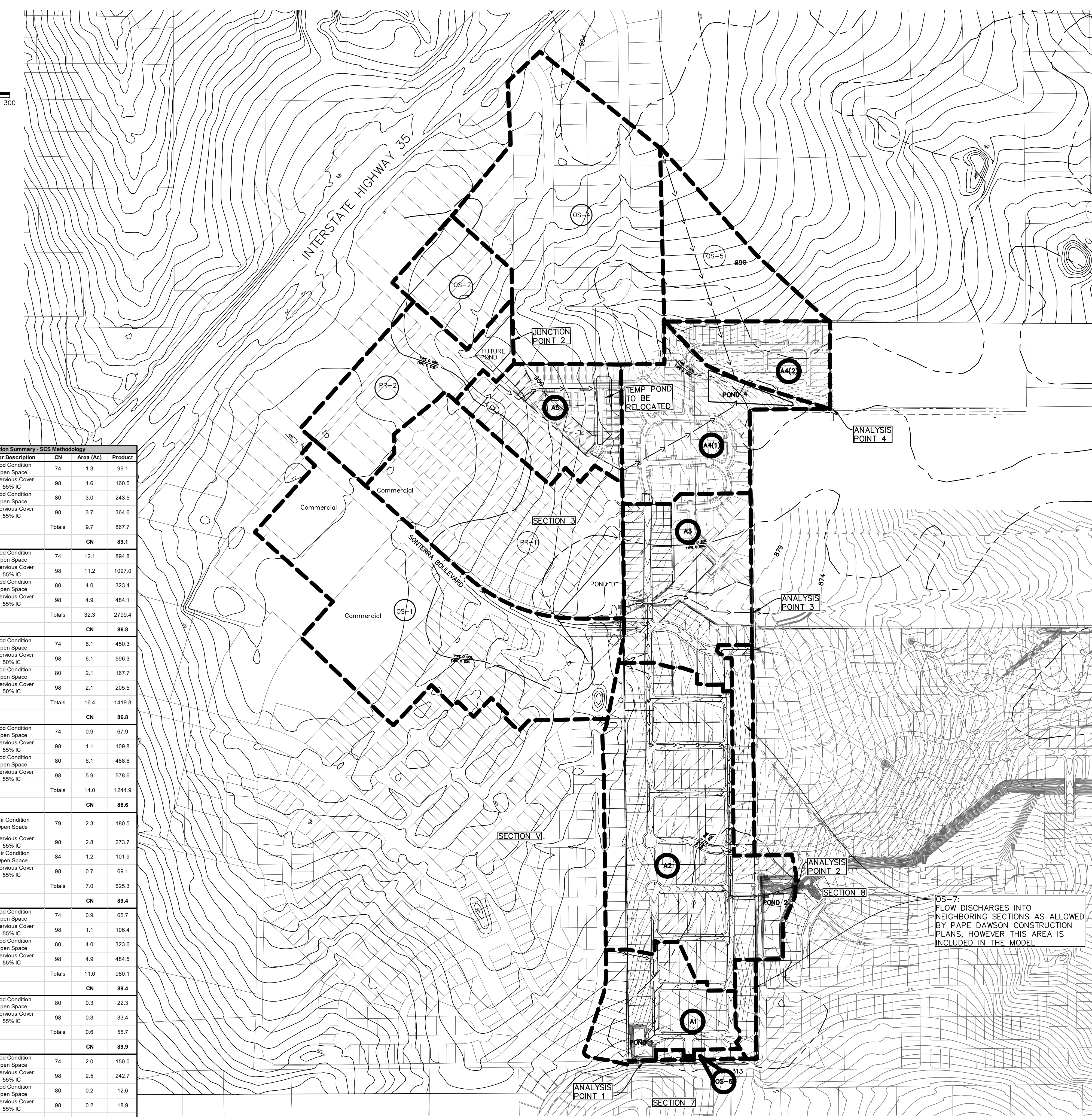
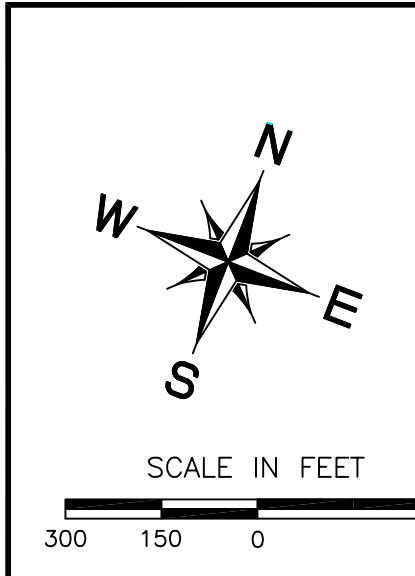


SONTERRA WEST
SECTION 12
JARRELL, TEXAS

OVERALL EXISTING
DRAINAGE AREA MAP

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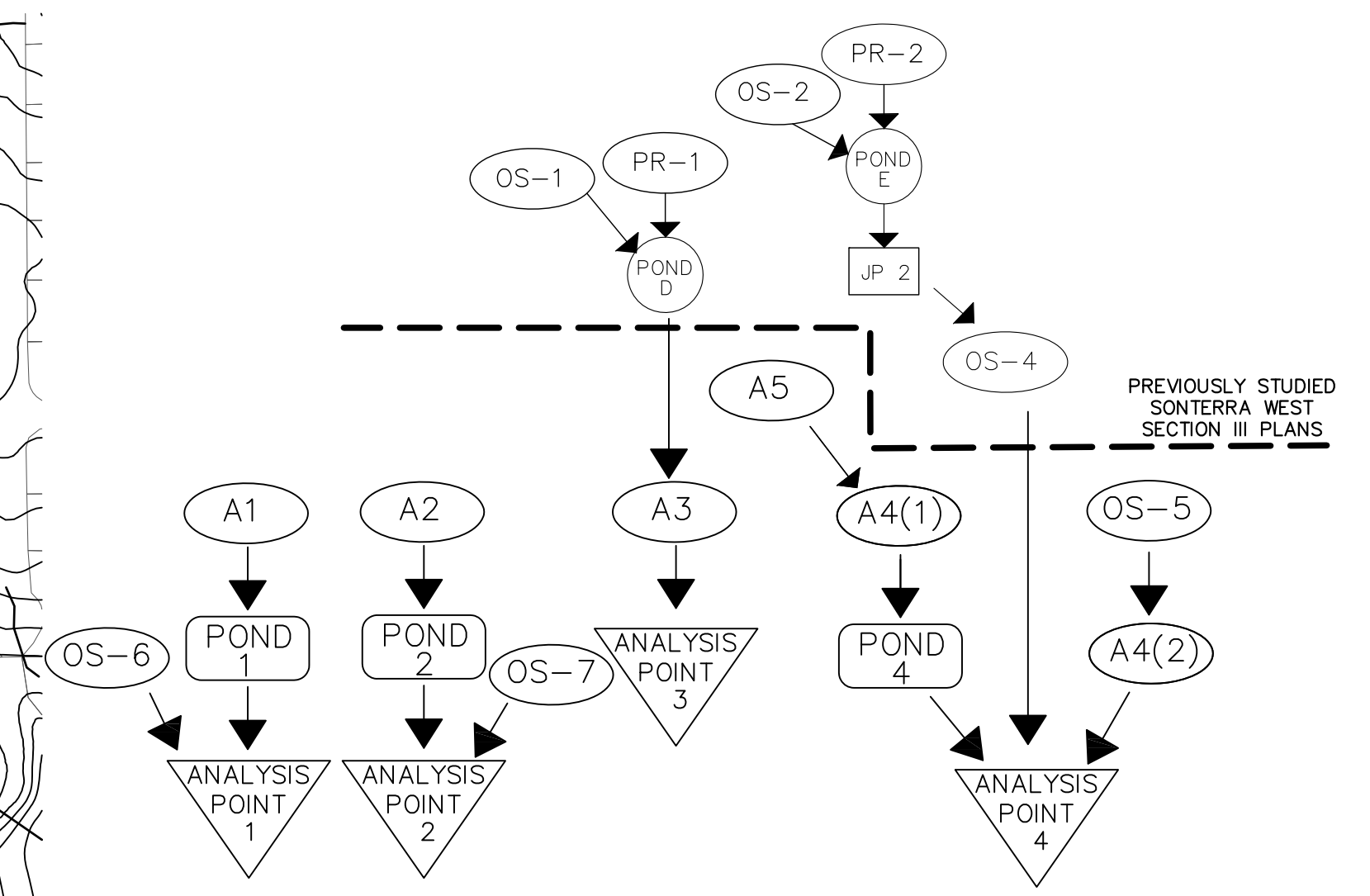
SHEET
08



Proposed CN Calculation Summary - SCS Methodology

Drainage Basin	Soil Group	Cover Description	CN	Area (Ac)	Product
A1	C	Good Condition Open Space	74	1.3	99.1
	C	Impervious Cover 55% IC	98	1.6	160.5
	D	Good Condition Open Space	80	3.0	243.5
	D	Impervious Cover 55% IC	98	3.7	364.6
	Totals			9.7	867.7
					CN 89.1
A2	C	Good Condition Open Space	74	12.1	894.8
	C	Impervious Cover 55% IC	98	11.2	1097.0
	D	Good Condition Open Space	80	4.0	323.4
	D	Impervious Cover 55% IC	98	4.9	484.1
	Totals			32.3	2799.4
					CN 86.8
A3	C	Good Condition Open Space	74	6.1	450.3
	C	Impervious Cover 50% IC	98	6.1	596.3
	D	Good Condition Open Space	80	2.1	167.7
	D	Impervious Cover 50% IC	98	2.1	205.5
	Totals			16.4	1419.8
					CN 86.8
A4(1)	C	Good Condition Open Space	74	0.9	67.9
	C	Impervious Cover 55% IC	98	1.1	109.8
	D	Good Condition Open Space	80	6.1	488.6
	D	Impervious Cover 55% IC	98	5.9	578.6
	Totals			14.0	1244.9
					CN 88.6
A4(2)	C	Fair Condition Open Space	79	2.3	180.5
	C	Impervious Cover 55% IC	98	2.8	273.7
	D	Fair Condition Open Space	84	1.2	101.9
	D	Impervious Cover 55% IC	98	0.7	69.1
	Totals			7.0	625.3
					CN 89.4
A5	C	Good Condition Open Space	74	0.9	65.7
	C	Impervious Cover 55% IC	98	1.1	106.4
	D	Good Condition Open Space	80	4.0	323.6
	D	Impervious Cover 55% IC	98	4.9	484.5
	Totals			11.0	980.1
					CN 89.4
OS-6	D	Good Condition Open Space	80	0.3	22.3
	D	Impervious Cover 55% IC	98	0.3	33.4
	Totals			0.6	55.7
					CN 89.9
OS-7	C	Good Condition Open Space	74	2.0	150.0
	C	Impervious Cover 55% IC	98	2.5	242.7
	D	Good Condition Open Space	80	0.2	12.6
	D	Impervious Cover 55% IC	98	0.2	18.9
	Totals			4.9	424.2
					CN 87.4

PROPOSED CONDITIONS



PROPOSED CONDITIONS - SCS METHOD SUMMARY

Area ID	DA (ac.)	IC (ac.)	IC (%)	TOC (min.)	TOC (hr.)	CN	Q2	Q10	Q25	Q100
A1	9.7	5.4	55%	21	0.35	89.1	17	34	44	61
A2	32.3	16.1	50%	34	0.57	86.8	42	90	117	162
A3	16.4	8.2	50%	23	0.39	86.8	25	54	70	97
A4(1)	14.0	7.0	50%	16	0.27	88.6	26	54	69	96
A4(2)	7.0	3.5	50%	18	0.30	89.4	13	26	34	47
A5	11.0	6.0	55%	20	0.33	89.4	20	40	52	71
OS-5	10.5	0.0	0%	30	0.49	83.1	13	29	38	54
OS-6	0.6	0.3	55%	8	0.13	89.9	1	3	4	5
OS-7	4.9	2.7	55%	10	0.17	87.4	10	21	27	37
TOTAL	106.3	46.6	44%							

ANALYSIS POINT FLOW DISCHARGE (CFS)

	ANALYSIS POINT FLOW DISCHARGE (CFS)			
	2 YR	10 YR	25 YR	100 YR
ANALYSIS POINT 1				
EXISTING	12	26	26	47
PROPOSED	9	15	20	42
ANALYSIS POINT 2				
EXISTING	38	89	120	170
PROPOSED	36	75	91	112
ANALYSIS POINT 3				
EXISTING	58	122	164	240
PROPOSED	55	111	147	214
ANALYSIS POINT 4				
EXISTING	113	247	321	445
PROPOSED	112	229	310	445

DETENTION POND ROUTING SUMMARY

POND 1				
STORM EVENT	INFLOW (CFS)	OUTFLOW (CFS)	WSEL	
2-YEAR	17	9	872.4	
10-YEAR	34	15	874.1	
25-YEAR	44	20	875.0	
100-YEAR	61	42	875.6	
POND 2				
STORM EVENT	INFLOW	OUTFLOW	WSEL	
2-YEAR	42	34	870.9	
10-YEAR	90	71	871.9	
25-YEAR	117	85	872.6	
100-YEAR	162	105	873.7	

*POND 4 PRELIMINARY VOLUME IS 5 AC-FT.
 *DRAINAGE MODEL ASSUMES RELOCATION OF TEMPORARY DETENTION POND FROM SECTION 3, PHASE 6 (DRAINAGE AREA A-5)
 *PER EXISTING PLAT REQUIREMENTS, DETENTION SERVING THE COMMERCIAL TRACTS WITHIN THE OS-2 AND PR-2 DRAINAGE AREAS WILL BE PROVIDED ON AN INDIVIDUAL BASIS UNLESS A REGIONAL STORMWATER DETENTION FACILITY IS CONSTRUCTED TO SERVE SOME OR ALL OF THE LOTS IN THE FUTURE. THUS, THE DRAINAGE MODEL ASSUMES FUTURE POND E HAS BEEN CONSTRUCTED.

OS-7: FLOW DISCHARGES INTO NEIGHBORING SECTIONS AS ALLOWED BY PAPE DAWSON CONSTRUCTION PLANS, HOWEVER THIS AREA IS INCLUDED IN THE MODEL.

- NOTES:**
- ON-SITE DATA BY LENZ AND ASSOCIATES, INC DATED APRIL 2017. OTHER DATA SHOWN PROVIDED BY WILLIAMSON COUNTY, CAPCOG GIS, AND PAPE-DAWSON ENGINEERS, INC. NO WARRANTY IS EXPRESSED OR IMPLIED AS TO ITS ACCURACY.
 - REFER TO THE DRAINAGE REPORT OF ADDITIONAL INFORMATION.

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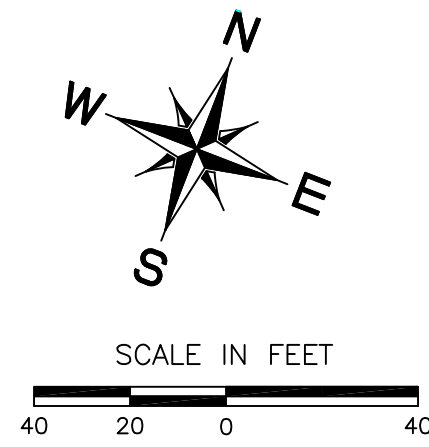
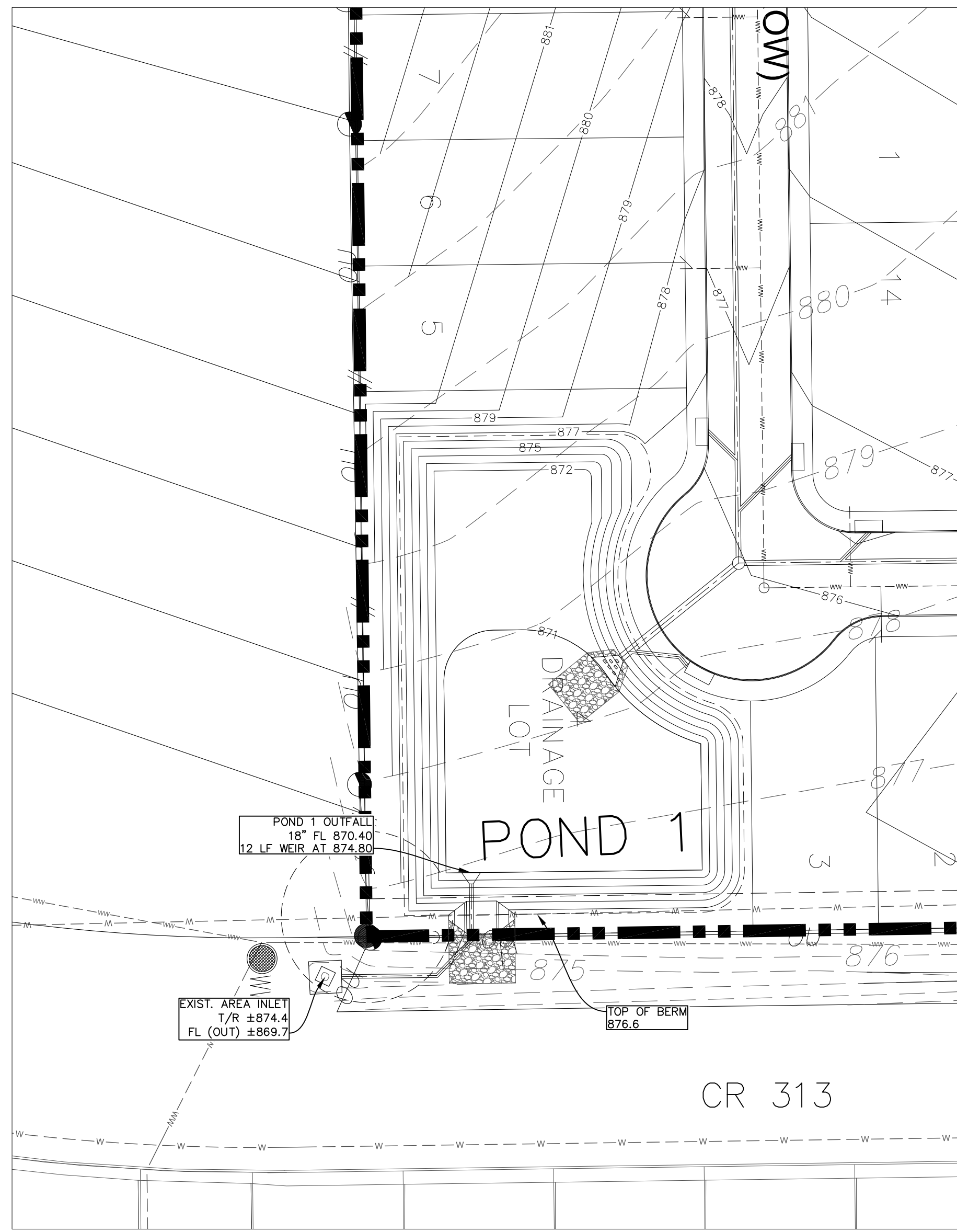
SONTERRA WEST SECTION 12 JARRELL, TEXAS

OVERALL PROPOSED DRAINAGE AREA MAP

Scale: AS SHOWN
 Designed by:
 Drawn by:
 Checked by:
 Date: APRIL 2018
 Project No.

SHEET
09

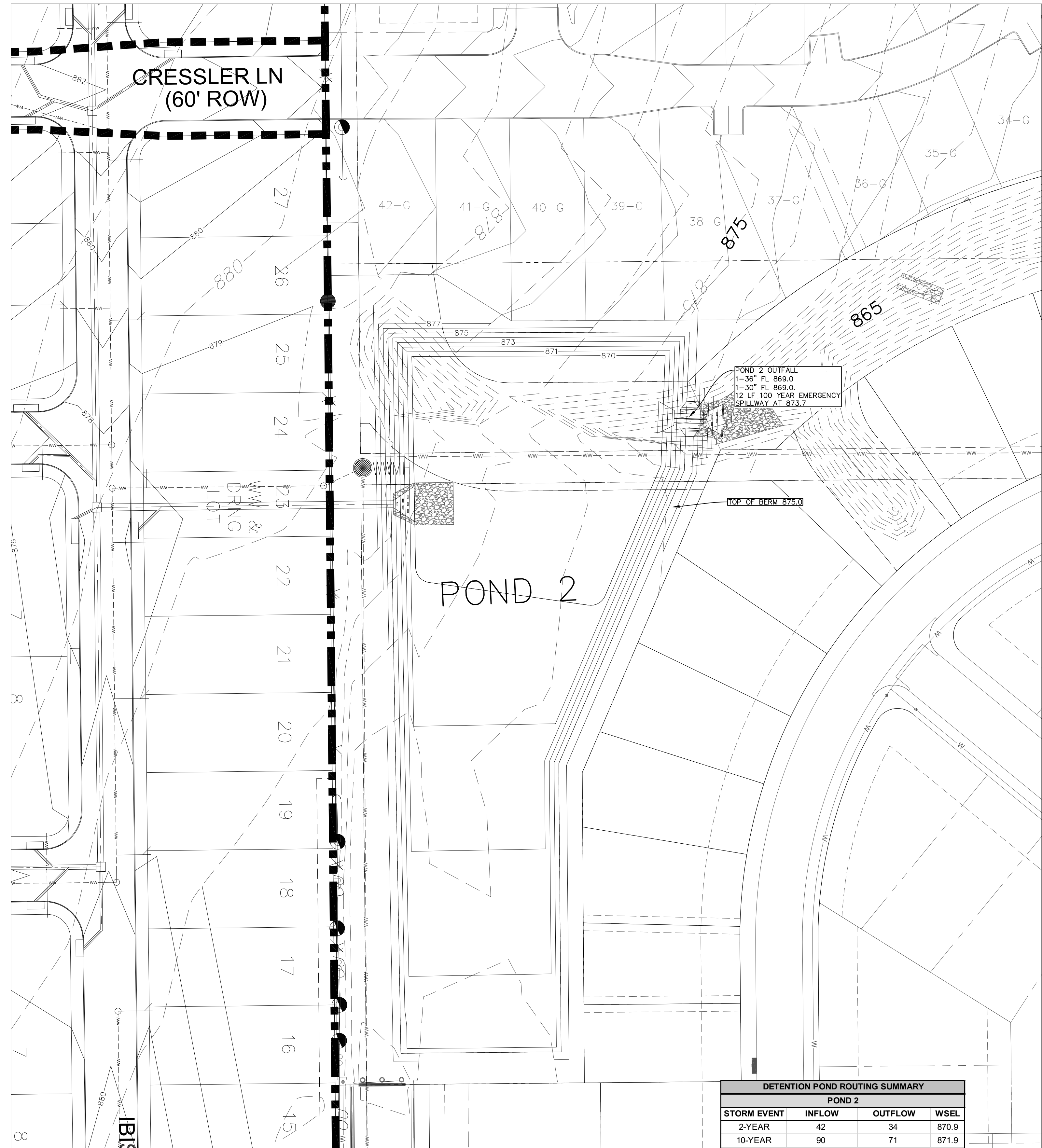
POND 1



DETENTION POND ROUTING SUMMARY			
POND 1			
STORM EVENT	INFLOW (CFS)	OUTFLOW (CFS)	WSEL
2-YEAR	17	9	872.4
10-YEAR	34	15	874.1
25-YEAR	44	20	875.0
100-YEAR	61	42	875.6

Detention Pond 1 Stage/Volume/Discharge							
STAGE (FT)	CONTOUR AREA (AC)	INCREMENTAL VOLUME (ac-ft)	CUMULATIVE VOLUME (ac-ft)	CUMULATIVE VOLUME (CF)	Pipe #1	Weir #1	TOTAL Q (cfs)
					size (in)	length (ft)	
					18" @ 870.4	12 LF @ 874.8	
870.4	0.000	0.000	0.000	0	0.0	0.0	0.0
871.0	0.190	0.063	0.063	2750	1.4	0.0	1.4
872.0	0.305	0.245	0.308	13410	7.8	0.0	7.8
873.0	0.342	0.323	0.631	27474	11.6	0.0	11.6
874.0	0.381	0.361	0.991	43184	14.4	0.0	14.4
875.0	0.421	0.400	1.391	60610	16.7	3.2	19.9
876.0	0.462	0.441	1.832	79818	18.7	47.3	66.1
876.6	0.491	0.286	2.118	92265	19.9	86.9	106.8

POND 2

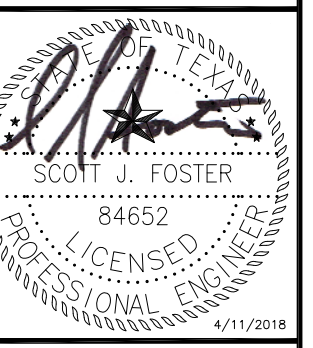


DETENTION POND ROUTING SUMMARY			
POND 2			
STORM EVENT	INFLOW	OUTFLOW	WSEL
2-YEAR	42	34	870.9
10-YEAR	90	71	871.9
25-YEAR	117	85	872.6
100-YEAR	162	105	873.7

Detention Pond 2 Stage/Volume/Discharge							
STAGE (FT)	CONTOUR AREA (AC)	INCREMENTAL VOLUME (ac-ft)	CUMULATIVE VOLUME (ac-ft)	CUMULATIVE VOLUME (CF)	Pipe #1	Pipe #2	TOTAL Q (cfs)
					size (in)	size (in)	
					1-36" @ 869	1-30" @ 869	
869.0	0.000	0.000	0.000	0	0.0	0.0	0.0
870.0	0.521	0.174	0.174	7558	5.6	5.0	10.5
871.0	0.765	0.638	0.812	35367	20.1	17.6	37.7
872.0	0.972	0.865	1.677	73061	41.7	31.3	72.9
873.0	1.196	1.082	2.759	120180	53.8	39.2	93.0
874.0	1.371	1.282	4.041	176020	63.7	45.8	109.4
875.0	1.455	1.411	5.452	237495	72.2	51.5	123.7

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SONTERRA WEST
SECTION 12
JARRELL, TEXAS

DETENTION POND
SCHEMATICS

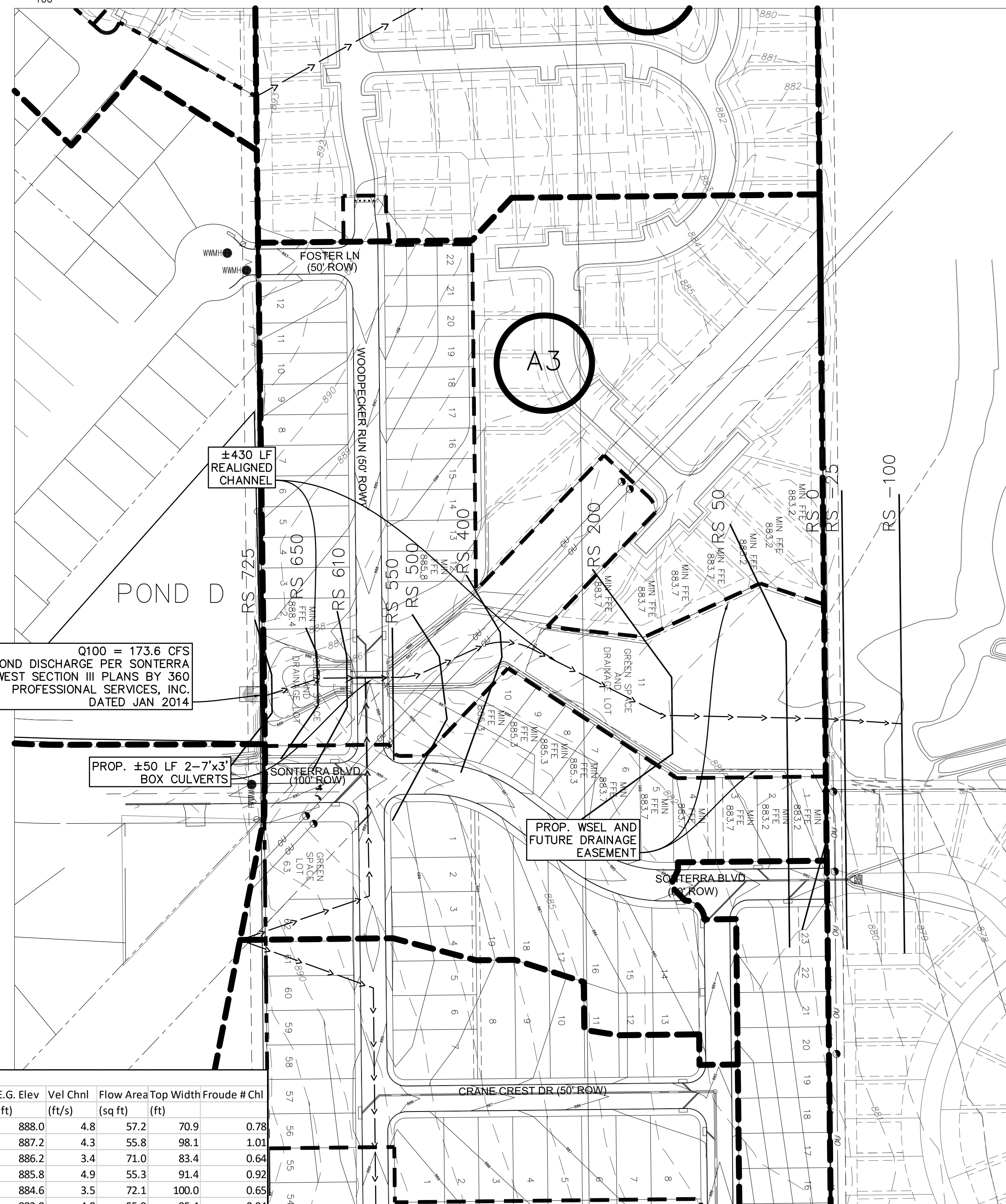
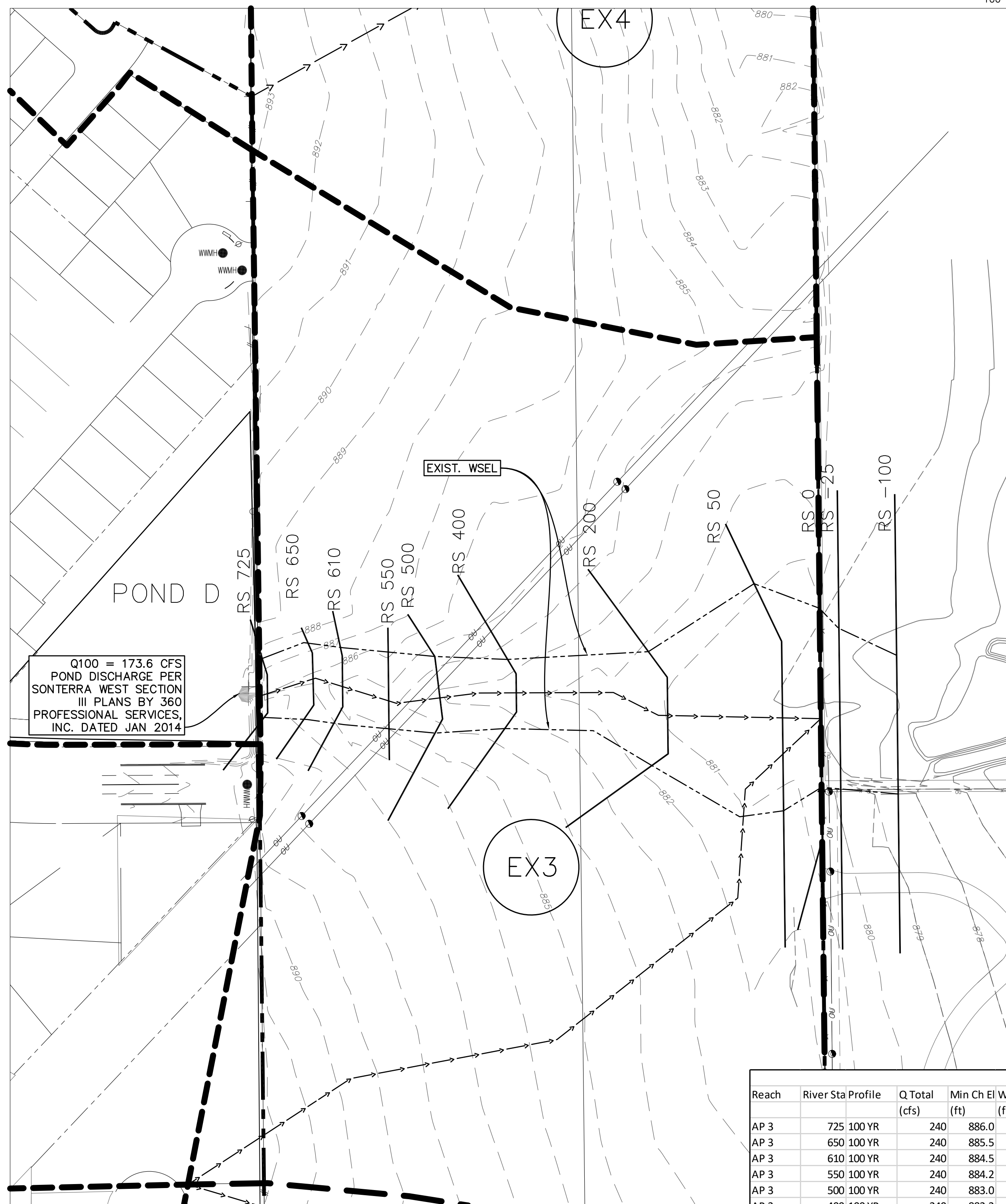
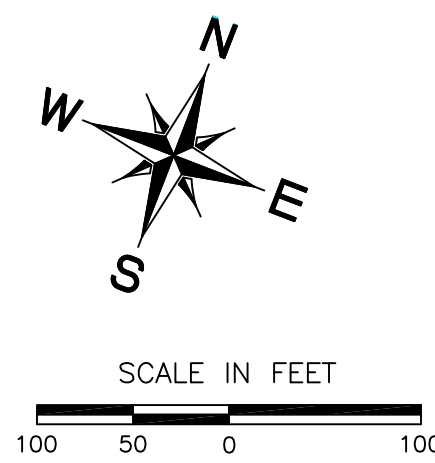
Scale: AS SHOWN
Designed by:
Drawn by:
Checked by:
Date: APRIL 2018
Project No.

SHEET
10

DATE: 4/17/2018 10:58:58 AM PROJECT: SONTERRA WEST SECTION 12 JARRELL, TEXAS DRAWN BY: JEFFREY W. HARRIS CHECKED BY: SCOTT J. FOSTER DATE: 4/17/2018 10:58:58 AM PROJECT: SONTERRA WEST SECTION 12 JARRELL, TEXAS

EXISTING CONDITIONS

PROPOSED CONDITIONS



Existing											
Reach	River Sta Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	Vel Chnl	Flow Area	Top Width	Froude #	Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(sq ft)	(ft)		
AP 3	725 100 YR	240	886.0	887.7	887.6	888.0	4.8	57.2	70.9	0.78	
AP 3	650 100 YR	240	885.5	886.9	886.9	887.2	4.3	55.8	98.1	1.01	
AP 3	610 100 YR	240	884.5	886.0	886.2	886.2	3.4	71.0	83.4	0.64	
AP 3	550 100 YR	240	884.2	885.5	885.5	885.8	4.9	55.3	91.4	0.92	
AP 3	500 100 YR	240	883.0	884.4	884.6	884.6	3.5	72.1	100.0	0.65	
AP 3	400 100 YR	240	882.3	883.5	883.5	883.8	4.8	55.9	95.4	0.94	
AP 3	200 100 YR	240	880.9	881.8	882.0	882.0	3.8	90.5	168.4	0.71	
AP 3	50 100 YR	240	880.3	881.2	881.2	881.2	1.8	138.5	311.0	0.44	
AP 3	0 100 YR	240	880.1	880.7	880.7	880.9	3.2	75.8	241.8	1	
AP 3	-25 100 YR	240	878.9	879.5	879.5	879.8	4.2	67.8	151.6	0.95	
AP 3	-100 100 YR	240	877.5	878.24	878.18	878.35	2.71	93.41	273.31	0.75	
Proposed											
Reach	River Sta Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	Vel Chnl	Flow Area	Top Width	Froude #	Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(sq ft)	(ft)		
AP 3	725 100 YR	214	886	887.3	887.3	887.7	5.0	43.9	62.4	0.98	
AP 3	650 100 YR	214	883.9	886.5	886.5	886.5	2.0	104.8	53.8	0.26	
AP 3	610 100 YR	214	883.1	886.3	884.7	886.5	3.8	56.9	44.6	0.37	
AP 3	595 Culvert										
AP 3	550 100 YR	214	882.9	884.5	884.5	885.3	7.0	30.5	30.1	1	
AP 3	500 100 YR	214	882.5	883.9	884.0	884.0	2.7	79.8	71.4	0.45	
AP 3	400 100 YR	214	882.25	883.3	883.2	883.5	3.8	57.0	84.1	0.8	
AP 3	200 100 YR	214	880.9	881.7	881.9	881.9	2.6	82.4	167.6	0.65	
AP 3	50 100 YR	214	880.3	881.2	881.2	881.2	1.7	130.5	260.8	0.4	
AP 3	0 100 YR	214	880.1	880.8	880.8	880.9	3.3	64.4	193.8	1.02	
AP 3	-25 100 YR	214	878.9	879.5	879.5	879.7	4.0	61.7	146.6	0.96	
AP 3	-100 100 YR	214	877.5	878.22	878.15	878.32	2.6	86.44	266.82	0.74	

Q TOTAL MODELED IN HEC-RAS IS THE 100-YEAR STORM EVENT FLOW FROM THE OVERALL POND PACK MODEL. REF. SHEETS 08 AND 09.

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SONTERRA WEST SECTION 12
JARRELL, TEXAS

HEC-RAS CHANNEL SCHEMATIC

Scale: AS SHOWN
 Designed by: _____
 Drawn by: _____
 Checked by: _____
 Date: APRIL 2018
 Project No. _____

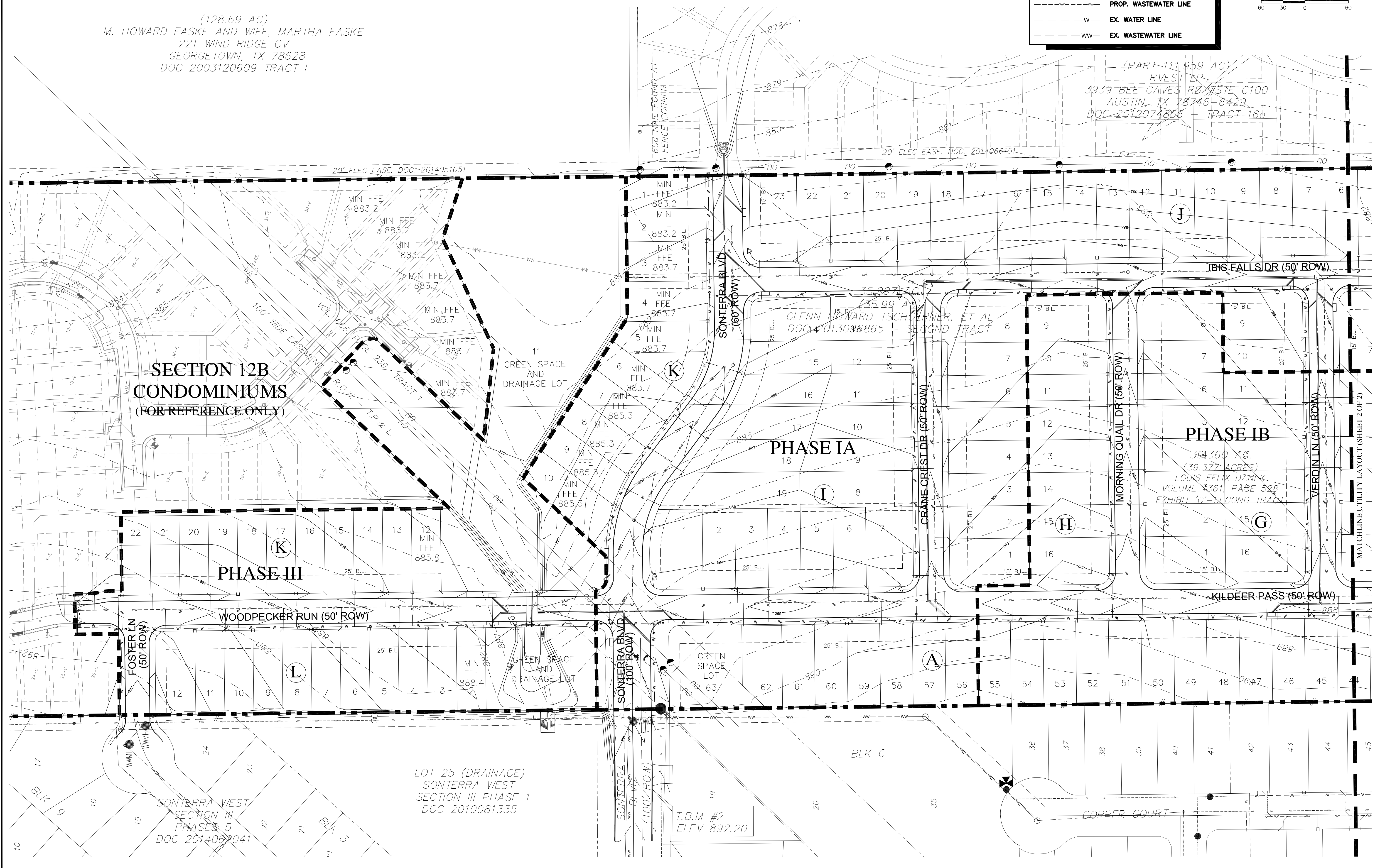
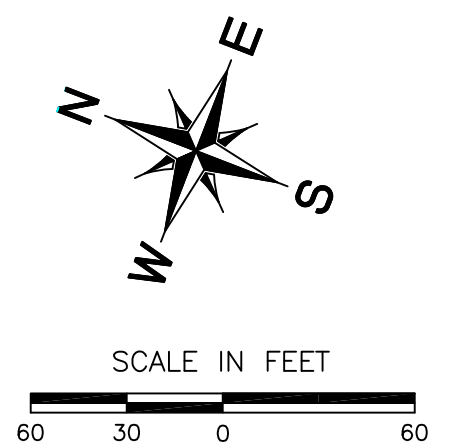
SHEET
11

PROJECT DATE: 4/1/2018 1:30:25 PM
 PROJECT LOCATION: SONTERRA WEST SECTION 12, JARRELL, TEXAS
 DRAWING NO.: 11
 REVISIONS: 1-2/18 1:30:25 PM 11-HEC-RAS CHAN SCHEMATIC

(128.69 AC)
 M. HOWARD FASKE AND WIFE, MARTHA FASKE
 221 WIND RIDGE CV
 GEORGETOWN, TX 78628
 DOC 2003120609 TRACT 1

LEGEND

	SUBJECT PROPERTY
	PHASE LINES
	PROPERTY LINES
	PROP. WATER LINE
	PROP. WASTEWATER LINE
	EX. WATER LINE
	EX. WASTEWATER LINE



**SECTION 12B
 CONDOMINIUMS
 (FOR REFERENCE ONLY)**

PHASE III

PHASE IA

PHASE IB

LOT 25 (DRAINAGE)
 SONTERRA WEST
 SECTION III PHASE 1
 DOC 2010081335

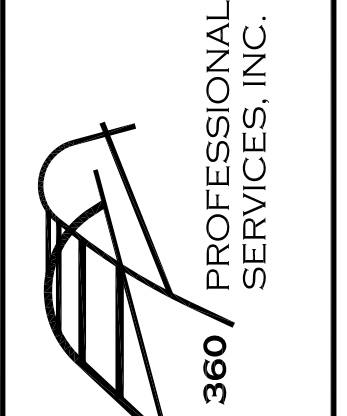
T.B.M #2
 ELEV 892.20

(PART 111.959 AC)
 RVEST LP
 3939 BEE CAVES RD #STE C100
 AUSTIN, TX 78746-6429
 DOC 2012074886 TRACT 166

35.99 AC
 GLENN HOWARD TSCHOLNER, ET AL
 DOC 2013095865 - SECOND TRACT

39.360 AC
 (39.377 ACRES)
 LOUIS FELIX DANEK
 VOLUME 3361, PAGE 528
 EXHIBIT 'C' - SECOND TRACT

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SCOTT J. FOSTER
 84652
 LICENSED PROFESSIONAL ENGINEER
 4/1/2018

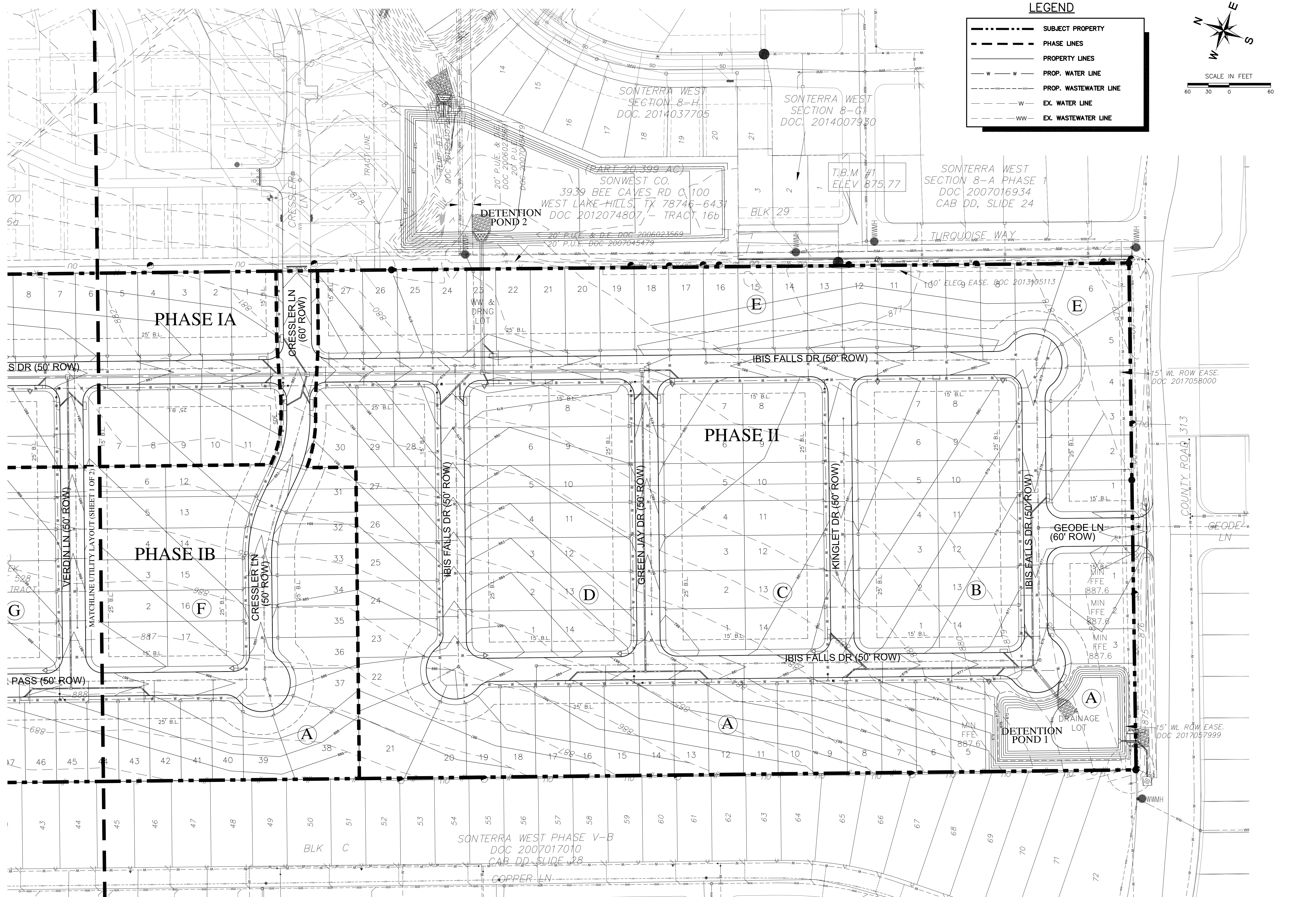
**SONTERRA WEST
 SECTION 12
 JARRELL, TEXAS**

**UTILITY LAYOUT
 (SHEET 1 OF 2)**

Scale: AS SHOWN
 Designed by:
 Drawn by:
 Checked by:
 Date: APRIL 2018
 Project No.

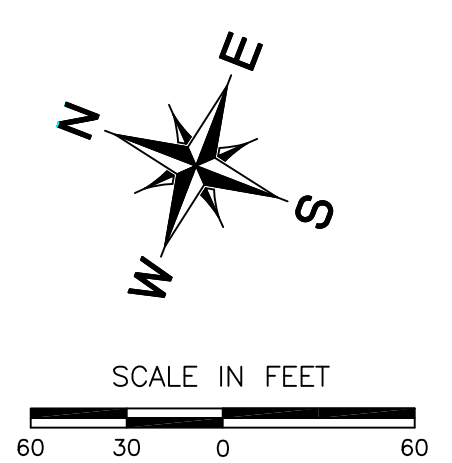
SHEET
 13

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 LAYOUT: 13 Utility PLOT DATE: 4/1/2018 3:36pm PLOT D BY: cml
 WAGES: \$17.50/hr

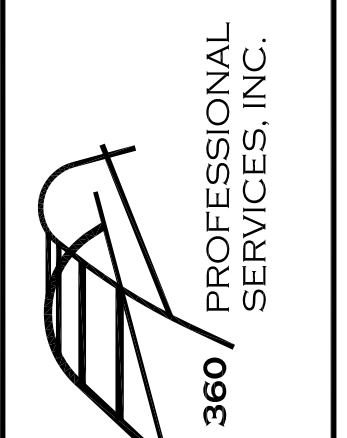


LEGEND

--- (thick dashed line)	SUBJECT PROPERTY
- - - (medium dashed line)	PHASE LINES
— (solid line)	PROPERTY LINES
— W — (line with 'W' markers)	PROP. WATER LINE
- - - W - - - (dashed line with 'W' markers)	PROP. WASTEWATER LINE
— W — (line with 'W' markers)	EX. WATER LINE
- - - W - - - (dashed line with 'W' markers)	EX. WASTEWATER LINE



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**SONTERRA WEST
 SECTION 12
 JARRELL, TEXAS**

**UTILITY LAYOUT
 (SHEET 2 OF 2)**

Scale: AS SHOWN
 Designed by:
 Drawn by:
 Checked by:
 Date: APRIL 2018
 Project No.

SHEET
 14

DATE: 4/11/18 11:14 AM USER: jfoster PROJECT: SONTERRA WEST SECTION 12 UTILITY LAYOUT SHEET 2 OF 2 PLOT DATE: 4/11/2018 3:16 PM PLOT BY: jfoster