



**AGENDA
CITY COUNCIL
WORK SESSION
REGULAR MEETING
JULY 16, 2020
6:30 PM**

The Joshua City Council will hold a Work Session at 6:30 p.m. and a Regular Meeting, immediately following the Work Session, in the Council Chambers at the Joshua City Hall, located at 101 S. Main St., Joshua, Texas on July 16, 2020. This meeting is closed to the public and subject to the open meeting laws of the State of Texas.

City facilities are closed to the public in response to a health emergency specifically Coronavirus Disease (COVID-19). This meeting is available via live stream.

Join Zoom Meeting:

<https://us02web.zoom.us/j/88642234690?pwd=OUhFcnRpMUM3Y2ZaOTRIRnlxZUhXUT09>

Meeting ID: 886 4223 4690 Password: 458180

A member of the public who would like to submit a question on any item listed on this agenda may do so via the following options:

- Online: An online speaker card may be found on the city's website (cityofjoshuatx.us) on the Agenda/Minutes/Recordings page. Speaker cards received will be read during the meeting in the order received by the City Secretary.
- By phone: Please call 817/558-7447 ext. 2003 and provide your name, address, and question. Your question will be read by the City Secretary in the order they are received.

A. CALL TO ORDER AND ANNOUNCE A QUORUM PRESENT

B. BUDGET WORKSHOP

1. Discuss the FY 2020-2021 Budget Workshop. (Staff Resource: J. Jones)
2. Discuss the 2020 Budget and Tax Rate Adoption Rate Calendar. (Staff Resource: J. Jones)

C. WORK SESSION

1. Review and discuss questions related to the budget report and financial statement for June 2020. (Staff Resource: J. Jones)
2. Review and discuss information related to drainage issues affecting specific commercial businesses at 609-613 N. Broadway. (Staff Resource: J. Jones)
3. Review and discuss the terms of the City Board Members and Commissioners. (Staff Resource: A Holloway)
4. Questions regarding Regular Session agenda items.

D. PUBLIC FORUM, PRESENTATIONS AND RECOGNATION:

The City Council invites citizens to speak on any topic. However, unless the item is specifically noted on this agenda, the City Council is required under the Texas Open Meetings Act to limit its response to responding with a statement of specific factual information, reciting the City's existing policy, or directing the person making the inquiry to visit with City Staff about the issue. No Council deliberation is permitted. Each person will have 3 minutes to speak.

E. CONSENT AGENDA

1. Consider approval of minutes from the City Council Meeting held on June 18, 2020. (Staff Resource: A. Holloway)
2. Consider approval of a resolution of the City of Joshua, Texas, designating Scott Porter as employee to calculate the no-new-revenue tax rate in accordance with the Texas Tax Code. (Staff Resource: A. Holloway)
3. Consider approval of a Memorandum of Understanding between the City of Joshua and the Joshua Independent School District outlining services provided and responsibilities of the Joshua Police Department and the Joshua Independent School District; and authorizing the Mayor to sign. (Staff Resource: S. Short)
4. Consider approval of an Interlocal Agreement for Water Utilities Facilities Relocations and Maintenance between Johnson County Special Utility District and the City of Joshua relative to the Cooper Valley Phase 5. (Staff Resource: A. Maldonado)

F. REGULAR AGENDA

1. Public hearing on the request for zoning change from Agricultural District to R-1, Single Family Residential District on a 1.59 acre tract of land generally located at the southwest corner of Conveyor Drive and County Road 800-A, locally known as 510 Conveyor Drive, Joshua, Texas 76058. (Staff Resource: A. Maldonado)

Staff Presentation

Owner's Presentation

Those in Favor

Those Against

Owner's Rebuttal

2. Discuss, consider, and take action on an Ordinance amending the official zoning map of the City of Joshua, Texas, by changing the zoning on property located at 510 Conveyor Drive in the City of Joshua, Texas, consisting of approximately 1.59 acres of land more particularly described as abstract 145 J.H. Cooper Survey in the City of Joshua, Johnson County, Texas, from Agricultural District (A) to Single-Family- Residential District (R-1); repealing all conflicting ordinances; providing a severability clause; providing for a penalty; providing for publication; and providing an effective date. (Staff Resource: A. Maldonado)
3. Discuss, consider, and take action on an Ordinance of the City Council of the city of Joshua, Texas, amending subpart (6) of subsection (A), "Generally," of section 10.3.1, "Easements," contained in the City's Subdivision Ordinance, exhibit "A" to Article 10.02.001. "Subdivision Ordinance." Of Chapter 10, "Subdivision Regulation," of the Code of Ordinances of the City of Joshua, Texas; making findings; providing for severability, savings and repealing clauses; providing for penalties; providing an effective date; and providing for the publication of the caption hereof. (Staff Resource: A. Maldonado)
4. Discuss, consider, and take action on a waiver application filed by Sherry Kemp regarding the height requirements of a privacy fence. (Staff Resource: A. Maldonado)

5. Discuss, consider, and take action on an agreement between the City of Joshua and Johnson County for Election Services for the November 3, 2020 General Election; and authorize the Mayor to sign all necessary documents. (Staff Resource: A. Holloway)

G. STAFF REPORT

June 2020

1. Police Department Report
2. Fire Department Report
3. Municipal Court Report
4. Public Works Report
5. Parks Report
6. Development Services Report
7. City Secretary Report

H. FUTURE AGENDA ITEMS/REQUESTS BY COUNCILMEMBERS TO BE ON NEXT AGENDA

Councilmembers shall not comment upon, deliberate, or discuss any item that is not on the agenda. Councilmembers shall not make routine inquiries about operations or project status on an item that is not posted. Any Councilmember may, however, state an issue and a request that this issue be placed on a future agenda.

I. ADJOURNMENT

The City Council reserves the right to meet in Executive Session closed to the public at any time in the course of this meeting to discuss matters listed on the agenda, as authorized by the Texas Open Meetings Act, Texas Government Code, Chapter 551, including 551.071 (private consultation with the attorney for the City); 551.072 (discussing purchase, exchange, lease or value of real property); 551.074 (discussing personnel or to hear complaints against personnel); and 551.087 (discussing economic development negotiations). Any decision held on such matters will be taken or conducted in Open Session following the conclusion of the Executive Session.

Pursuant to Section 551.127, Texas Government Code, one or more Councilmembers may attend this meeting remotely using videoconferencing technology. The video and audio feed of the videoconferencing equipment can be viewed and heard by the public at the address posted above as the location of the meeting. A quorum will be physically present at the posted meeting location of City Hall.

In compliance with the Americans with Disabilities Act, the City of Joshua will provide reasonable accommodations for disabled persons attending this meeting. Requests should be received at least 24 hours prior to the scheduled meeting by contacting the City Secretary's office at 817/558-7447.

CERTIFICATE:

I hereby certify that the above agenda was posted on or before the 10th day of July, 2020, by 12:00 p.m. on the official bulletin board at Joshua City Hall, 101 S. Main, Joshua, Texas.

Alice Holloway
City Secretary

City of Joshua
Financial Statement
As of June 30, 2020

7/8/2020 8:38 AM

100 - General Fund	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% of Budget	Budget Remaining
Revenue Summary							
Tax Revenue	99,740.97	83,275.42	16,465.55	3,043,718.88	3,431,685.00	88.69%	387,966.12
Charges for Services	41,377.90	41,544.88	(166.98)	373,325.25	498,600.00	74.87%	125,274.75
Licenses, Permits & Fees	63,424.77	33,045.52	30,379.25	406,392.10	422,705.00	96.14%	16,312.90
Grants & Contributions	200.00	41.65	158.35	475.00	500.00	95.00%	25.00
Intergovernmental Revenues	0.00	13,859.17	(13,859.17)	8,821.01	166,310.00	5.30%	157,488.99
Fines & Forfeitures	0.00	0.00	0.00	1,211.12	0.00	0.00%	(1,211.12)
Investment Earnings	0.00	224.91	(224.91)	3,551.58	2,700.00	131.54%	(851.58)
Miscellaneous	95,785.68	6,518.22	89,267.46	199,849.57	78,250.00	255.40%	(121,599.57)
Transfers In	32,540.00	41,312.50	(8,772.50)	97,620.00	195,250.00	50.00%	97,630.00
Revenue Totals	<u>333,069.32</u>	<u>219,822.27</u>	<u>113,247.05</u>	<u>4,134,964.51</u>	<u>4,796,000.00</u>	<u>86.22 %</u>	<u>661,035.49</u>
Expense Summary							
Contract & Professional Services	48,959.11	51,438.20	(2,479.09)	512,411.17	646,720.00	79.23%	134,308.83
Utilities	13,893.15	34,222.02	(20,328.87)	116,322.28	247,210.00	47.05%	130,887.72
Community Events	1,500.00	10,000.00	(8,500.00)	10,142.91	20,000.00	50.71%	9,857.09
Miscellaneous	35,239.39	21,610.03	13,629.36	256,196.72	350,850.00	73.02%	94,653.28
Repair & Maintenance	16,004.33	23,348.65	(7,344.32)	185,831.58	280,975.00	66.14%	95,143.42
Personnel	228,969.19	195,819.74	33,149.45	1,604,120.18	2,558,830.00	62.69%	954,709.82
Debt Service	0.00	2,600.00	(2,600.00)	2,950.00	4,000.00	73.75%	1,050.00
Transfers Out	0.00	0.00	0.00	0.00	297,455.00	0.00%	297,455.00
Supplies	6,364.60	24,944.37	(18,579.77)	204,145.78	304,440.00	67.06%	100,294.22
Capital Outlay	1,925.00	3,579.40	(1,654.40)	173,579.14	251,165.00	69.11%	77,585.86
Expense Totals	<u>352,854.77</u>	<u>367,562.41</u>	<u>(14,707.64)</u>	<u>3,065,699.76</u>	<u>4,961,645.00</u>	<u>61.79 %</u>	<u>1,895,945.24</u>

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100 - General Fund	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% of Budget	Budget Remaining
Tax Revenue							
100-4000 GF Property Tax	24,340.25	12,632.00	11,708.25	2,224,897.47	2,255,715.00	98.63%	30,817.53
100-4001 GF Property Tax Penalty	1,842.62	0.00	1,842.62	8,362.17	0.00	0.00%	(8,362.17)
100-4002 GF Prop Tax Interest Income	846.88	0.00	846.88	7,104.09	0.00	0.00%	(7,104.09)
100-4003 City Sales Taxes	65,341.16	66,866.99	(1,525.83)	619,908.89	802,725.00	77.23%	182,816.11
100-4005 Mixed Beverage Tax	0.00	49.98	(49.98)	4,653.15	600.00	775.53%	(4,053.15)
100-4006 Franchise Taxes	7,370.06	3,726.45	3,643.61	178,793.11	372,645.00	47.98%	193,851.89
Tax Revenue Totals	99,740.97	83,275.42	16,465.55	3,043,718.88	3,431,685.00	88.69%	387,966.12
Charges for Services							
100-4008 ESD Incentive	857.59	0.00	857.59	6,780.82	0.00	0.00%	(6,780.82)
100-4008 ESD Contract Fee	12,750.00	12,744.90	5.10	114,750.00	153,000.00	75.00%	38,250.00
100-4102 Rabies Vouchers	90.00	49.98	40.02	800.00	600.00	133.33%	(200.00)
100-4108 Trash Collection Service Charges	27,680.31	28,750.00	(1,069.69)	250,994.43	345,000.00	72.75%	94,005.57
Charges for Services Totals	41,377.90	41,544.88	(166.98)	373,325.25	498,600.00	74.87%	125,274.75
Licenses, Permits & Fees							
100-4100 Permits/Fees	54,748.75	20,825.00	33,923.75	320,856.99	250,000.00	128.34%	(70,856.99)
100-4101 Fines/Court Fees	7,270.25	10,412.50	(3,142.25)	74,312.76	125,000.00	59.45%	50,687.24
100-4105 Gas Well Fees	0.00	0.00	0.00	100.00	26,000.00	0.38%	25,900.00
100-4109 Utility Penalties	0.00	618.50	(618.50)	(21.32)	7,425.00	(0.29%)	7,446.32
100-4110 Utility Admin Fee	1,105.74	1,189.52	(83.78)	9,998.48	14,280.00	70.02%	4,281.52
100-4115 Local Truancy and Prevention	264.74	0.00	264.74	1,005.14	0.00	0.00%	(1,005.14)
100-4116 Municipal Jury Fund	5.29	0.00	5.29	20.05	0.00	0.00%	(20.05)
100-4117 Time Payment Reimbursement	30.00	0.00	30.00	120.00	0.00	0.00%	(120.00)
Licenses, Permits & Fees Totals	63,424.77	33,045.52	30,379.25	406,392.10	422,705.00	96.14%	16,312.90

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100 - General Fund	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% of Budget	Budget Remaining
Grants & Contributions							
100-4203 General Fund Donations	200.00	41.65	158.35	475.00	500.00	95.00%	25.00
Grants & Contributions Totals	200.00	41.65	158.35	475.00	500.00	95.00%	25.00
Intergovernmental Revenues							
100-4400 Police Department Grants	0.00	0.00	0.00	1,395.00	0.00	0.00%	(1,395.00)
100-4401 Fire Department Grants	0.00	13,859.17	(13,859.17)	5,963.00	166,310.00	3.59%	160,347.00
100-4404 LEOSE/Continuing Education	0.00	0.00	0.00	1,463.01	0.00	0.00%	(1,463.01)
Intergovernmental Revenues Totals	0.00	13,859.17	(13,859.17)	8,821.01	166,310.00	5.30%	157,488.99
Fines & Forfeitures							
100-4501 PD Forfeiture Fund	0.00	0.00	0.00	1,211.12	0.00	0.00%	(1,211.12)
Fines & Forfeitures Totals	0.00	0.00	0.00	1,211.12	0.00	0.00%	(1,211.12)
Investment Earnings							
100-4600 Interest Income	0.00	224.91	(224.91)	3,551.58	2,700.00	131.54%	(851.58)
Investment Earnings Totals	0.00	224.91	(224.91)	3,551.58	2,700.00	131.54%	(851.58)
Miscellaneous							
100-4901 Misc. Revenue	95,785.68	6,518.22	89,267.46	199,849.57	78,250.00	255.40%	(121,599.57)
Miscellaneous Totals	95,785.68	6,518.22	89,267.46	199,849.57	78,250.00	255.40%	(121,599.57)
Transfers In							
100-4917 Transfer from Type A EDC	5,000.00	0.00	5,000.00	15,000.00	30,000.00	50.00%	15,000.00
100-4918 Transfer from Type B EDC	27,540.00	41,312.50	(13,772.50)	82,620.00	165,250.00	50.00%	82,630.00
Transfers In Totals	32,540.00	41,312.50	(8,772.50)	97,620.00	195,250.00	50.00%	97,630.00
Revenue Totals	333,069.32	219,822.27	113,247.05	4,134,964.51	4,796,000.00	86.22%	661,035.49

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100 - General Fund Police Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Utilities	1,557.01	1,939.64	(382.63)	12,364.19	23,285.00	53.10%	10,920.81
Miscellaneous	0.00	33.33	(33.33)	369.60	400.00	92.40%	30.40
Personnel	90,050.67	72,236.96	17,813.71	653,825.58	953,900.00	68.54%	300,074.42
Supplies	1,839.16	2,757.63	(918.47)	30,799.49	33,100.00	93.05%	2,300.51
Repair & Maintenance	8,065.40	4,607.19	3,458.21	49,410.87	55,300.00	89.35%	5,889.13
Contract & Professional Services	1,499.70	1,057.91	441.79	68,927.94	70,000.00	98.47%	1,072.06
Capital Outlay	0.00	2,415.70	(2,415.70)	32,221.04	68,605.00	46.97%	36,383.96
Police Department Totals	<u>103,011.94</u>	<u>85,048.36</u>	<u>17,963.58</u>	<u>847,918.71</u>	<u>1,204,590.00</u>	<u>70.39%</u>	<u>356,671.29</u>

100 - General Fund Public Works	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Supplies	1,386.43	14,407.15	(13,020.72)	102,303.23	172,955.00	59.15%	70,651.77
Repair & Maintenance	3,575.59	6,514.50	(2,938.91)	41,339.05	78,205.00	52.86%	36,865.95
Capital Outlay	1,925.00	0.00	1,925.00	129,075.58	156,345.00	82.56%	27,269.42
Utilities	426.38	566.44	(140.06)	3,717.16	6,800.00	54.66%	3,082.84
Personnel	74,525.52	15,274.07	59,251.45	160,277.60	206,340.00	77.68%	46,062.40
Contract & Professional Services	99.29	1,686.82	(1,587.53)	17,956.28	20,250.00	88.67%	2,293.72
Public Works Totals	<u>81,938.21</u>	<u>38,448.98</u>	<u>43,489.23</u>	<u>454,668.90</u>	<u>640,895.00</u>	<u>70.94%</u>	<u>186,226.10</u>

100 - General Fund Municipal Court	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	(4,900.49)	7,269.04	(12,169.53)	54,982.71	94,715.00	58.05%	39,732.29
Supplies	124.08	154.10	(30.02)	595.23	1,850.00	32.17%	1,254.77
Contract & Professional Services	2,289.29	2,969.27	(679.98)	28,335.21	35,635.00	79.52%	7,299.79
Repair & Maintenance	192.15	166.60	25.55	1,346.47	2,000.00	67.32%	653.53

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Miscellaneous	0.00	499.80	(499.80)	199.36	6,000.00	3.32%	5,800.64
Municipal Court Totals	(2,294.97)	11,058.81	(13,353.78)	85,458.98	140,200.00	60.96%	54,741.02

100 - General Fund Development Services	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	34,242.70	12,396.97	21,845.73	142,796.33	160,585.00	88.92%	17,788.67
Supplies	189.67	304.07	(114.40)	2,868.63	3,650.00	78.59%	781.37
Repair & Maintenance	73.43	458.15	(384.72)	1,736.22	5,500.00	31.57%	3,763.78
Contract & Professional Services	419.29	1,006.75	(587.46)	12,984.20	12,085.00	107.44%	(899.20)
Utilities	87.62	296.54	(208.92)	1,082.28	3,560.00	30.40%	2,477.72
Miscellaneous	144,146.44	41.67	144,104.77	144,146.44	500.00	28829.29%	(143,646.44)
Development Services Totals	179,159.15	14,504.15	164,655.00	305,614.10	185,880.00	164.41%	(119,734.10)

100 - General Fund Animal Control	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	10,701.94	7,735.91	2,966.03	81,292.06	103,335.00	78.67%	22,042.94
Supplies	895.80	878.92	16.88	7,045.11	10,550.00	66.78%	3,504.89
Repair & Maintenance	619.67	2,399.16	(1,779.49)	13,215.55	28,800.00	45.89%	15,584.45
Utilities	1,044.84	1,275.73	(230.89)	9,216.85	15,315.00	60.18%	6,098.15
Contract & Professional Services	501.58	824.79	(323.21)	5,449.52	9,900.00	55.05%	4,450.48
Animal Control Totals	13,763.83	13,114.51	649.32	116,219.09	167,900.00	69.22%	51,680.91

100 - General Fund General Non-Departmental	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Transfers Out	0.00	0.00	0.00	0.00	297,455.00	0.00%	297,455.00
Contract & Professional Services	16,339.28	14,844.96	1,494.32	93,973.21	99,020.00	94.90%	5,046.79
Debt Service	0.00	2,600.00	(2,600.00)	2,950.00	4,000.00	73.75%	1,050.00

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Miscellaneous	158.33	3,425.00	(3,266.67)	57,744.02	93,455.00	61.79%	35,710.98
Personnel	0.00	0.00	0.00	3,774.63	4,000.00	94.37%	225.37
General Non-Departmental Totals	<u>16,497.61</u>	<u>20,869.96</u>	<u>(4,372.35)</u>	<u>158,441.86</u>	<u>497,930.00</u>	<u>31.82%</u>	<u>339,488.14</u>

100 - General Fund Mayor & Council	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	0.00	1,000.00	(1,000.00)	228.00	2,000.00	11.40%	1,772.00
Supplies	0.00	87.50	(87.50)	90.85	1,050.00	8.65%	959.15
Mayor & Council Totals	<u>0.00</u>	<u>1,087.50</u>	<u>(1,087.50)</u>	<u>318.85</u>	<u>3,050.00</u>	<u>10.45%</u>	<u>2,731.15</u>

100 - General Fund Fire Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Utilities	2,541.82	2,850.10	(308.28)	22,401.12	34,215.00	65.47%	11,813.88
Personnel	23,149.83	34,805.99	(11,656.16)	139,385.27	462,355.00	30.15%	322,969.73
Supplies	1,466.03	4,132.15	(2,666.12)	32,768.06	49,600.00	66.06%	16,831.94
Repair & Maintenance	1,593.73	4,081.70	(2,487.97)	26,145.51	49,000.00	53.36%	22,854.49
Contract & Professional Services	863.26	1,939.37	(1,076.11)	17,347.14	23,280.00	74.52%	5,932.86
Capital Outlay	0.00	0.00	0.00	12,282.52	12,245.00	100.31%	(37.52)
Miscellaneous	34.90	1,336.97	(1,302.07)	10,183.52	16,050.00	63.45%	5,866.48
Fire Department Totals	<u>29,649.57</u>	<u>49,146.28</u>	<u>(19,496.71)</u>	<u>260,513.14</u>	<u>646,745.00</u>	<u>40.28%</u>	<u>386,231.86</u>

100 - General Fund Park Maintenance	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	(55,568.22)	6,010.21	(61,578.43)	0.00	79,595.00	0.00%	79,595.00
Repair & Maintenance	150.00	2,528.23	(2,378.23)	34,911.17	30,350.00	115.03%	(4,561.17)
Supplies	39.71	982.94	(943.23)	11,410.93	11,800.00	96.70%	389.07
Utilities	2,325.10	21,052.66	(18,727.56)	19,712.07	89,115.00	22.12%	69,402.93

City of Joshua
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Capital Outlay	0.00	1,163.70	(1,163.70)	0.00	13,970.00	0.00%	13,970.00
Contract & Professional Services	0.00	24.99	(24.99)	19.20	300.00	6.40%	280.80
Park Maintenance Totals	<u>(53,053.41)</u>	<u>31,762.73</u>	<u>(84,816.14)</u>	<u>66,053.37</u>	<u>225,130.00</u>	<u>29.34%</u>	<u>159,076.63</u>

100 - General Fund Community Service	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Miscellaneous	5,057.91	3,021.58	2,036.33	37,881.76	49,365.00	76.74%	11,483.24
Contract & Professional Services	26,648.13	26,666.67	(18.54)	221,721.46	320,000.00	69.29%	98,278.54
Utilities	3,674.80	3,741.83	(67.03)	28,961.73	44,920.00	64.47%	15,958.27
Community Events	1,500.00	10,000.00	(8,500.00)	10,142.91	20,000.00	50.71%	9,857.09
Repair & Maintenance	0.00	0.00	0.00	459.50	690.00	66.59%	230.50
Community Service Totals	<u>36,880.84</u>	<u>43,430.08</u>	<u>(6,549.24)</u>	<u>299,167.36</u>	<u>434,975.00</u>	<u>68.78%</u>	<u>135,807.64</u>

100 - General Fund Administration	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Personnel	56,767.24	39,090.59	17,676.65	367,558.00	492,005.00	74.71%	124,447.00
Supplies	423.72	1,239.91	(816.19)	16,264.25	19,885.00	81.79%	3,620.75
Repair & Maintenance	1,734.36	2,593.12	(858.76)	17,267.24	31,130.00	55.47%	13,862.76
Utilities	2,235.58	2,499.08	(263.50)	18,866.88	30,000.00	62.89%	11,133.12
Miscellaneous	(114,158.19)	13,251.68	(127,409.87)	5,672.02	185,080.00	3.06%	179,407.98
Contract & Professional Services	299.29	416.67	(117.38)	45,697.01	56,250.00	81.24%	10,552.99
Administration Totals	<u>(52,698.00)</u>	<u>59,091.05</u>	<u>(111,789.05)</u>	<u>471,325.40</u>	<u>814,350.00</u>	<u>57.88%</u>	<u>343,024.60</u>
Expense Totals	<u>352,854.77</u>	<u>367,562.41</u>	<u>(14,707.64)</u>	<u>3,065,699.76</u>	<u>4,961,645.00</u>	<u>61.79%</u>	<u>1,895,945.24</u>

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100 - General Fund Community Service	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-01-5404 CS Contract Services	26,648.13	26,666.67	(18.54)	221,721.46	320,000.00	69.29%	98,278.54
100-01-5711 CS Street Lights	3,674.80	3,741.83	(67.03)	28,961.73	44,920.00	64.47%	15,958.27
100-01-5800 CS Holiday Events	1,500.00	10,000.00	(8,500.00)	10,142.91	20,000.00	50.71%	9,857.09
100-01-5900 CS Library Operating	1,775.00	1,772.08	2.92	17,750.00	21,265.00	83.47%	3,515.00
100-01-5901 CS McPherson House	0.00	0.00	0.00	459.50	690.00	66.59%	230.50
100-01-5902 CS Cle-Tran	0.00	0.00	0.00	0.00	6,600.00	0.00%	6,600.00
100-01-5903 CS Clean-Up And Recycling	2,400.83	0.00	2,400.83	6,525.45	6,500.00	100.39%	(25.45)
100-01-5905 CS Quarterly City Newsletter	882.08	1,249.50	(367.42)	13,306.31	15,000.00	88.71%	1,693.69
100-01-5906 CS Crud Cruiser	0.00	0.00	0.00	300.00	0.00	0.00%	(300.00)
Community Service Totals	36,880.84	43,430.08	(6,549.24)	299,167.36	434,975.00	68.78%	135,807.64

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100 - General Fund General Non-Departmental	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-02-5160 ND Dues & Subscriptions	0.00	0.00	0.00	3,774.63	4,000.00	94.37%	225.37
100-02-5402 ND Legal Services	6,189.50	4,165.00	2,024.50	58,309.87	50,000.00	116.62%	(8,309.87)
100-02-5403 ND Ordinance Codification	0.00	99.96	(99.96)	0.00	1,200.00	0.00%	1,200.00
100-02-5420 ND Central Appraisal District	10,149.78	10,580.00	(430.22)	30,449.34	42,320.00	71.95%	11,870.66
100-02-5421 ND County Assessor -	0.00	0.00	0.00	5,214.00	5,500.00	94.80%	286.00
100-02-5500 ND Debt Service & Reports	0.00	2,600.00	(2,600.00)	2,950.00	4,000.00	73.75%	1,050.00
100-02-5940 ND Liability Insurance	0.00	0.00	0.00	18,272.25	24,950.00	73.24%	6,677.75
100-02-5941 ND Property Insurance	0.00	0.00	0.00	20,663.25	27,405.00	75.40%	6,741.75
100-02-5942 ND Unrestricted Reserves	0.00	0.00	0.00	12,669.91	0.00	0.00%	(12,669.91)
100-02-5943 ND Technology	0.00	3,425.00	(3,425.00)	3,887.25	41,100.00	9.46%	37,212.75
100-02-5945 ND COVID-19	158.33	0.00	158.33	2,251.36	0.00	0.00%	(2,251.36)
100-02-5979 Transfer To Capital	0.00	0.00	0.00	0.00	297,455.00	0.00%	297,455.00
General Non-Departmental Totals	16,497.61	20,869.96	(4,372.35)	158,441.86	497,930.00	31.82%	339,488.14

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100 - General Fund Mayor & Council	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-03-5150 M/C Training & Travel	0.00	1,000.00	(1,000.00)	228.00	2,000.00	11.40%	1,772.00
100-03-5220 M/C Office Supplies	0.00	4.17	(4.17)	10.00	50.00	20.00%	40.00
100-03-5262 M/C Events & Awards	0.00	83.33	(83.33)	80.85	1,000.00	8.09%	919.15
Mayor & Council Totals	0.00	1,087.50	(1,087.50)	318.85	3,050.00	10.45%	2,731.15

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100 - General Fund Administration	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-04-5110 AD Salaries	49,404.23	30,559.67	18,844.56	308,466.44	397,395.00	77.62%	88,928.56
100-04-5111 AD Overtime	0.00	0.00	0.00	98.60	0.00	0.00%	(98.60)
100-04-5112 AD Worker's Comp	0.00	0.00	0.00	684.11	900.00	76.01%	215.89
100-04-5117 AD Longevity Pay	0.00	0.00	0.00	1,820.00	2,000.00	91.00%	180.00
100-04-5120 AD PayrollTaxes	683.18	449.86	233.32	5,220.99	5,850.00	89.25%	629.01
100-04-5130 AD Benefits	3,644.39	4,497.78	(853.39)	27,333.84	53,995.00	50.62%	26,661.16
100-04-5140 AD TMRS	2,865.44	1,858.28	1,007.16	18,279.17	24,165.00	75.64%	5,885.83
100-04-5150 AD Training & Travel	170.00	1,500.00	(1,330.00)	2,980.68	5,000.00	59.61%	2,019.32
100-04-5160 AD Dues & Memberships	0.00	208.33	(208.33)	2,474.17	2,500.00	98.97%	25.83
100-04-5161 AD Surety Bonds	0.00	16.67	(16.67)	200.00	200.00	100.00%	0.00
100-04-5212 AD Reference Materials	0.00	124.95	(124.95)	0.00	1,500.00	0.00%	1,500.00
100-04-5220 AD Office Supplies	236.27	333.20	(96.93)	4,747.95	4,000.00	118.70%	(747.95)
100-04-5221 AD Printing	0.00	95.37	(95.37)	324.97	1,145.00	28.38%	820.03
100-04-5222 AD Postage	187.45	219.91	(32.46)	812.15	2,640.00	30.76%	1,827.85
100-04-5240 AD Election Expenses	0.00	0.00	0.00	7,097.07	5,000.00	141.94%	(2,097.07)
100-04-5250 AD Office Equip & Furniture	0.00	466.48	(466.48)	3,282.11	5,600.00	58.61%	2,317.89
100-04-5330 AD Building R & M	890.02	1,666.00	(775.98)	10,203.20	20,000.00	51.02%	9,796.80
100-04-5350 AD Office Equipment R & M	844.34	927.12	(82.78)	7,064.04	11,130.00	63.47%	4,065.96
100-04-5402 AD IT Services	299.29	416.67	(117.38)	3,718.14	5,000.00	74.36%	1,281.86
100-04-5403 AD Accounting & Audit	0.00	0.00	0.00	21,350.00	26,000.00	82.12%	4,650.00
100-04-5404 AD Contract Services	0.00	0.00	0.00	7,878.87	5,000.00	157.58%	(2,878.87)
100-04-5410 AD Software Maintenance	0.00	0.00	0.00	12,750.00	20,250.00	62.96%	7,500.00
100-04-5710 AD Utilities	2,076.90	2,284.91	(208.01)	17,679.28	27,430.00	64.45%	9,750.72
100-04-5750 AD Mobile Technology	158.68	214.17	(55.49)	1,187.60	2,570.00	46.21%	1,382.40
100-04-5909 AD Miscellaneous	0.00	149.10	(149.10)	976.78	1,790.00	54.57%	813.22
100-04-5931 AD Publishing Legal Notices	248.75	833.33	(584.58)	4,695.24	10,000.00	46.95%	5,304.76

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100 - General Fund Administration	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-04-5932 AD Engineering Service	(84,320.94)	7,892.67	(92,213.61)	0.00	94,750.00	0.00%	94,750.00
100-04-5933 AD Planning	(30,086.00)	4,376.58	(34,462.58)	0.00	52,540.00	0.00%	52,540.00
100-04-5934 AD Gas Well Inspection	0.00	0.00	0.00	0.00	26,000.00	0.00%	26,000.00
Administration Totals	<u>(52,698.00)</u>	<u>59,091.05</u>	<u>(111,789.05)</u>	<u>471,325.40</u>	<u>814,350.00</u>	<u>57.88%</u>	<u>343,024.60</u>

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100 - General Fund Police Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-05-5110 PD Salaries	77,162.47	58,613.18	18,549.29	530,793.84	762,200.00	69.64%	231,406.16
100-05-5111 PD Overtime	447.74	2,083.33	(1,635.59)	12,168.46	25,000.00	48.67%	12,831.54
100-05-5112 PD Worker's Comp	0.00	0.00	0.00	13,949.76	18,405.00	75.79%	4,455.24
100-05-5117 PD Longevity Pay	0.00	0.00	0.00	2,320.00	3,860.00	60.10%	1,540.00
100-05-5120 PD Payroll Taxes	1,301.58	892.81	408.77	10,060.89	11,610.00	86.66%	1,549.11
100-05-5130 PD Benefits	6,742.02	5,942.62	799.40	48,422.11	71,340.00	67.88%	22,917.89
100-05-5140 PD TMRS	4,396.86	3,680.43	716.43	31,786.38	47,860.00	66.42%	16,073.62
100-05-5150 PD Training & Travel	0.00	1,016.26	(1,016.26)	3,630.14	12,200.00	29.76%	8,569.86
100-05-5160 PD Dues/Memberships	0.00	0.00	0.00	594.00	825.00	72.00%	231.00
100-05-5161 PD Surety Bonds	0.00	8.33	(8.33)	100.00	100.00	100.00%	0.00
100-05-5180 PD Citizens Police Academy	0.00	0.00	0.00	0.00	500.00	0.00%	500.00
100-05-5213 PD Uniforms	443.83	433.16	10.67	2,942.33	5,200.00	56.58%	2,257.67
100-05-5215 PD Law Enforcement	12.50	333.20	(320.70)	3,209.44	4,000.00	80.24%	790.56
100-05-5217 PD Criminal Investigation	1,305.00	458.33	846.67	5,652.45	5,500.00	102.77%	(152.45)
100-05-5218 PD Awards	0.00	12.50	(12.50)	0.00	150.00	0.00%	150.00
100-05-5220 PD Office Supplies	53.38	229.17	(175.79)	1,838.99	2,750.00	66.87%	911.01
100-05-5222 PD Postage	24.45	41.67	(17.22)	717.26	500.00	143.45%	(217.26)
100-05-5250 PD Equipment & Furniture	0.00	999.60	(999.60)	12,709.06	12,000.00	105.91%	(709.06)
100-05-5260 PD Vests/Safety Equipment	0.00	250.00	(250.00)	3,729.96	3,000.00	124.33%	(729.96)
100-05-5310 PD Fuel, Oil & Service	928.94	1,666.67	(737.73)	12,708.33	20,000.00	63.54%	7,291.67
100-05-5310 PD Vehicle R & M	5,889.79	1,082.90	4,806.89	17,736.23	13,000.00	136.43%	(4,736.23)
100-05-5320 PD Equipment R & M	243.50	83.33	160.17	1,413.76	1,000.00	141.38%	(413.76)
100-05-5330 PD Building R & M	1,003.17	1,774.29	(771.12)	17,552.55	21,300.00	82.41%	3,747.45
100-05-5351 PD Copier/Support	675.41	541.45	133.96	4,856.21	6,500.00	74.71%	1,643.79
100-05-5402 PD IT Services	349.29	516.46	(167.17)	3,995.69	6,200.00	64.45%	2,204.31
100-05-5404 PD Contract Services	475.00	0.00	475.00	45,874.56	43,000.00	106.69%	(2,874.56)

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100 - General Fund Police Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-05-5408 PD Reporting System	0.00	0.00	0.00	14,201.48	14,300.00	99.31%	98.52
100-05-5600 PD Capital Outlay >\$5,000	0.00	2,415.70	(2,415.70)	0.00	29,000.00	0.00%	29,000.00
100-05-5601 PD Capital Outlay <\$5,000	0.00	0.00	0.00	22,620.22	30,000.00	75.40%	7,379.78
100-05-5611 PD Principal Payments	0.00	0.00	0.00	8,000.00	8,290.00	96.50%	290.00
100-05-5612 PD Interest Expense	0.00	0.00	0.00	1,600.82	1,315.00	121.74%	(285.82)
100-05-5710 PD Utilities	1,117.98	1,248.25	(130.27)	8,877.13	14,985.00	59.24%	6,107.87
100-05-5750 PD Mobile Technology	439.03	691.39	(252.36)	3,487.06	8,300.00	42.01%	4,812.94
100-05-5909 PD Miscellaneous	0.00	33.33	(33.33)	369.60	400.00	92.40%	30.40
Police Department Totals	103,011.94	85,048.36	17,963.58	847,918.71	1,204,590.00	70.39%	356,671.29

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100 - General Fund Public Works	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-06-5110 PW Salaries	58,566.92	12,086.75	46,480.17	124,063.75	157,175.00	78.93%	33,111.25
100-06-5111 PW Overtime	377.61	149.94	227.67	1,221.89	1,800.00	67.88%	578.11
100-06-5112 PW Worker's Comp	1,028.04	0.00	1,028.04	7,180.14	9,570.00	75.03%	2,389.86
100-06-5117 PW Longevity Pay	340.00	0.00	340.00	696.00	410.00	169.76%	(286.00)
100-06-5120 PW Payroll Taxes	1,144.72	181.48	963.24	2,468.58	2,360.00	104.60%	(108.58)
100-06-5130 PW Benefits	9,418.04	1,980.87	7,437.17	16,745.21	23,780.00	70.42%	7,034.79
100-06-5140 PW TMRS	3,650.19	741.70	2,908.49	7,674.61	9,645.00	79.57%	1,970.39
100-06-5150 PW Training & Travel	0.00	133.33	(133.33)	227.42	1,600.00	14.21%	1,372.58
100-06-5213 PW Uniforms	153.13	499.80	(346.67)	3,481.33	6,000.00	58.02%	2,518.67
100-06-5220 PW Office Supplies	0.00	24.99	(24.99)	190.04	300.00	63.35%	109.96
100-06-5261 PW Equipment Rental	0.00	124.95	(124.95)	564.65	1,500.00	37.64%	935.35
100-06-5270 PW Street Supplies &	1,233.30	13,757.41	(12,524.11)	98,067.21	165,155.00	59.38%	67,087.79
100-06-5310 PW Fuel, Oil & Service	1,042.42	1,256.58	(214.16)	7,285.39	15,085.00	48.30%	7,799.61
100-06-5310 PW Vehicle R & M	186.39	1,082.90	(896.51)	3,993.91	13,000.00	30.72%	9,006.09
100-06-5320 PW Equipment R & M	2,100.08	2,472.34	(372.26)	16,966.92	29,680.00	57.17%	12,713.08
100-06-5330 PW Building R & M	246.70	1,161.20	(914.50)	6,687.26	13,940.00	47.97%	7,252.74
100-06-5331 PW Sign R & M	0.00	483.14	(483.14)	6,047.21	5,800.00	104.26%	(247.21)
100-06-5332 PW Minor Tools	0.00	41.67	(41.67)	358.36	500.00	71.67%	141.64
100-06-5350 PW Office Equipment R & M	0.00	16.67	(16.67)	0.00	200.00	0.00%	200.00
100-06-5402 PW IT Services	99.29	170.76	(71.47)	1,956.41	2,050.00	95.43%	93.59
100-06-5404 PW Contract Service	0.00	1,516.06	(1,516.06)	15,999.87	18,200.00	87.91%	2,200.13
100-06-5600 PW Capital Outlay >\$5,000	0.00	0.00	0.00	19,585.00	34,875.00	56.16%	15,290.00
100-06-5601 PW Capital Outlay <\$5,000	1,925.00	0.00	1,925.00	5,614.00	17,590.00	31.92%	11,976.00
100-06-5611 PW Principal Payments	0.00	0.00	0.00	87,119.29	86,885.00	100.27%	(234.29)
100-06-5612 PW Interest Expense	0.00	0.00	0.00	16,757.29	16,995.00	98.60%	237.71
100-06-5710 PW Building Utilities	276.36	416.50	(140.14)	2,978.60	5,000.00	59.57%	2,021.40

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100 - General Fund Public Works	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-06-5750 PW Mobile Technology	150.02	149.94	0.08	738.56	1,800.00	41.03%	1,061.44
Public Works Totals	81,938.21	38,448.98	43,489.23	454,668.90	640,895.00	70.94%	186,226.10

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100 - General Fund Municipal Court	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-07-5110 MC Salaries	(4,309.42)	5,797.87	(10,107.29)	43,965.12	75,395.00	58.31%	31,429.88
100-07-5111 MC Overtime	1.46	50.00	(48.54)	165.56	600.00	27.59%	434.44
100-07-5112 MC Worker's Comp	0.00	0.00	0.00	146.40	175.00	83.66%	28.60
100-07-5117 MC Longevity Pay	0.00	0.00	0.00	852.00	940.00	90.64%	88.00
100-07-5120 MC Payroll Taxes	(150.30)	87.28	(237.58)	832.24	1,135.00	73.33%	302.76
100-07-5130 MC Benefits	(192.37)	792.59	(984.96)	5,285.87	9,515.00	55.55%	4,229.13
100-07-5140 MC TMRS	(249.86)	357.96	(607.82)	2,668.20	4,655.00	57.32%	1,986.80
100-07-5150 MC Training & Travel	0.00	166.67	(166.67)	912.32	2,000.00	45.62%	1,087.68
100-07-5160 MC Dues & Memberships	0.00	0.00	0.00	55.00	100.00	55.00%	45.00
100-07-5161 MC Surety Bonds	0.00	16.67	(16.67)	100.00	200.00	50.00%	100.00
100-07-5220 MC Office Supplies	9.78	16.66	(6.88)	133.58	200.00	66.79%	66.42
100-07-5221 MC Printing	0.00	54.14	(54.14)	0.00	650.00	0.00%	650.00
100-07-5222 MC Postage	114.30	83.30	31.00	461.65	1,000.00	46.17%	538.35
100-07-5350 MC Office Equipment R & M	192.15	166.60	25.55	1,346.47	2,000.00	67.32%	653.53
100-07-5401 MC IT Service	89.29	102.87	(13.58)	1,835.21	1,235.00	148.60%	(600.21)
100-07-5402 MC Legal Services	0.00	499.80	(499.80)	2,500.00	6,000.00	41.67%	3,500.00
100-07-5404 MC Judge Contract Services	2,200.00	2,200.00	0.00	22,000.00	26,400.00	83.33%	4,400.00
100-07-5410 MC Warrant Collection Fee	0.00	166.60	(166.60)	2,000.00	2,000.00	100.00%	0.00
100-07-5910 MC Warrant Entry Fees	0.00	499.80	(499.80)	199.36	6,000.00	3.32%	5,800.64
Municipal Court Totals	(2,294.97)	11,058.81	(13,353.78)	85,458.98	140,200.00	60.96%	54,741.02

City of Joshua
Financial Statement
As of June 30, 2020

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100 - General Fund Development Services	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-08-5110 DS Salaries	28,942.66	10,146.95	18,795.71	118,462.94	131,950.00	89.78%	13,487.06
100-08-5111 DS Overtime	31.75	41.67	(9.92)	96.32	500.00	19.26%	403.68
100-08-5112 DS Worker's Comp	0.00	0.00	0.00	356.37	300.00	118.79%	(56.37)
100-08-5117 DS Longevity Pay	0.00	0.00	0.00	444.00	555.00	80.00%	111.00
100-08-5120 DS Payroll Taxes	486.90	150.72	336.18	2,115.22	1,960.00	107.92%	(155.22)
100-08-5130 DS Benefits	3,000.88	1,188.69	1,812.19	13,471.86	14,270.00	94.41%	798.14
100-08-5140 DS TMRS	1,680.51	619.04	1,061.47	7,001.82	8,050.00	86.98%	1,048.18
100-08-5150 DS Training & Travel	0.00	233.24	(233.24)	370.00	2,800.00	13.21%	2,430.00
100-08-5160 DS Dues & Memberships	0.00	16.66	(16.66)	277.80	200.00	138.90%	(77.80)
100-08-5161 DS Surety Bonds	100.00	0.00	100.00	200.00	0.00	0.00%	(200.00)
100-08-5213 DS Uniforms	0.00	66.64	(66.64)	243.54	800.00	30.44%	556.46
100-08-5220 DS Office Supplies	0.00	74.97	(74.97)	244.17	900.00	27.13%	655.83
100-08-5221 DS Printing	0.00	58.31	(58.31)	443.95	700.00	63.42%	256.05
100-08-5222 DS Postage	73.00	33.32	39.68	311.82	400.00	77.96%	88.18
100-08-5250 DS Office Equip & Furniture	116.67	70.83	45.84	1,625.15	850.00	191.19%	(775.15)
100-08-5310 DS Vehicle R & M	0.00	41.65	(41.65)	37.16	500.00	7.43%	462.84
100-08-5310 DS Fuel, Oil & Service	73.43	124.95	(51.52)	743.06	1,500.00	49.54%	756.94
100-08-5330 DS Building R & M	0.00	291.55	(291.55)	956.00	3,500.00	27.31%	2,544.00
100-08-5402 DS IT Services	99.29	107.04	(7.75)	3,019.20	1,285.00	234.96%	(1,734.20)
100-08-5403 DS Code Enforcement	0.00	524.79	(524.79)	6,300.00	6,300.00	100.00%	0.00
100-08-5404 DS Contract Services	320.00	208.25	111.75	3,065.00	2,500.00	122.60%	(565.00)
100-08-5406 DS Nuisance Abatement	0.00	166.67	(166.67)	600.00	2,000.00	30.00%	1,400.00
100-08-5710 DS Utilities	0.00	208.25	(208.25)	458.66	2,500.00	18.35%	2,041.34
100-08-5750 DS Mobile Technology	87.62	88.29	(0.67)	623.62	1,060.00	58.83%	436.38
100-08-5910 DS Property Liens	0.00	41.67	(41.67)	0.00	500.00	0.00%	500.00
100-08-5932 DS Engineering Service	92,069.94	0.00	92,069.94	92,069.94	0.00	0.00%	(92,069.94)

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100 - General Fund Development Services	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-08-5933 DS Planning	52,076.50	0.00	52,076.50	52,076.50	0.00	0.00%	(52,076.50)
Development Services Totals	179,159.15	14,504.15	164,655.00	305,614.10	185,880.00	164.41%	(119,734.10)

City of Joshua
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100 - General Fund Animal Control	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-09-5110 AC Salaries	8,785.68	6,058.18	2,727.50	60,815.98	78,780.00	77.20%	17,964.02
100-09-5111 AC Overtime	111.96	166.67	(54.71)	1,614.09	2,000.00	80.70%	385.91
100-09-5112 AC Worker's Comp	0.00	0.00	0.00	1,976.34	2,600.00	76.01%	623.66
100-09-5117 AC Longevity Pay	0.00	0.00	0.00	1,152.00	1,155.00	99.74%	3.00
100-09-5120 AC Payroll Taxes	139.96	93.43	46.53	1,256.05	1,215.00	103.38%	(41.05)
100-09-5130 AC Benefits	1,140.24	834.24	306.00	8,308.10	10,015.00	82.96%	1,706.90
100-09-5140 AC TMRS	524.10	366.81	157.29	3,804.22	4,770.00	79.75%	965.78
100-09-5150 AC Training & Travel	0.00	208.25	(208.25)	2,165.28	2,500.00	86.61%	334.72
100-09-5160 AC Dues & Memberships	0.00	8.33	(8.33)	100.00	100.00	100.00%	0.00
100-09-5161 AC Surety Bonds	0.00	0.00	0.00	100.00	200.00	50.00%	100.00
100-09-5213 AC Uniforms	0.00	83.33	(83.33)	435.64	1,000.00	43.56%	564.36
100-09-5220 AC Office Supplies	0.00	62.47	(62.47)	461.77	750.00	61.57%	288.23
100-09-5222 AC Postage	100.80	41.65	59.15	372.55	500.00	74.51%	127.45
100-09-5250 AC Office Equip & Furniture	0.00	208.33	(208.33)	1,656.60	2,500.00	66.26%	843.40
100-09-5280 AC Micro Chips	795.00	291.55	503.45	1,590.00	3,500.00	45.43%	1,910.00
100-09-5282 AC Medical Supplies	0.00	24.99	(24.99)	2,408.55	300.00	802.85%	(2,108.55)
100-09-5284 AC Rabies Vouchers	0.00	166.60	(166.60)	120.00	2,000.00	6.00%	1,880.00
100-09-5310 AC Fuel, Oil & Service	67.70	83.30	(15.60)	1,093.33	1,000.00	109.33%	(93.33)
100-09-5310 AC Vehicle R & M	0.00	141.61	(141.61)	524.89	1,700.00	30.88%	1,175.11
100-09-5320 AC Equipment R & M	0.00	41.65	(41.65)	0.00	500.00	0.00%	500.00
100-09-5330 AC Animal Food	356.85	300.00	56.85	2,714.37	3,600.00	75.40%	885.63
100-09-5330 AC Building R & M	195.12	1,832.60	(1,637.48)	8,882.96	22,000.00	40.38%	13,117.04
100-09-5402 AC IT Services	309.29	349.86	(40.57)	2,812.41	4,200.00	66.96%	1,387.59
100-09-5404 AC Contract Services	192.29	183.26	9.03	1,960.45	2,200.00	89.11%	239.55
100-09-5408 AC Professional Services	0.00	291.67	(291.67)	676.66	3,500.00	19.33%	2,823.34
100-09-5710 AC Utilities	906.36	1,175.77	(269.41)	8,293.65	14,115.00	58.76%	5,821.35

City of Joshua
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100 - General Fund Animal Control	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-09-5750 AC Mobile Technology	138.48	99.96	38.52	923.20	1,200.00	76.93%	276.80
Animal Control Totals	13,763.83	13,114.51	649.32	116,219.09	167,900.00	69.22%	51,680.91

City of Joshua
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100 - General Fund Fire Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-10-5110 FD Salaries	19,099.20	25,648.45	(6,549.25)	99,631.89	333,530.00	29.87%	233,898.11
100-10-5111 FD Overtime	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
100-10-5112 FD Worker's Comp	0.00	0.00	0.00	7,854.38	9,200.00	85.37%	1,345.62
100-10-5117 FD Longevity Pay	0.00	0.00	0.00	284.00	760.00	37.37%	476.00
100-10-5120 FD Payroll Taxes	301.74	377.96	(76.22)	1,855.02	4,915.00	37.74%	3,059.98
100-10-5130 FD Benefits	575.10	2,773.47	(2,198.37)	4,209.67	33,295.00	12.64%	29,085.33
100-10-5140 FD TMRS	1,109.79	1,555.30	(445.51)	5,659.70	20,225.00	27.98%	14,565.30
100-10-5150 FD Training & Travel	0.00	1,711.81	(1,711.81)	1,183.36	20,550.00	5.76%	19,366.64
100-10-5160 FD Dues & Memberships	1,575.00	406.50	1,168.50	4,116.94	4,880.00	84.36%	763.06
100-10-5180 FD Incentive	489.00	2,082.50	(1,593.50)	10,563.00	25,000.00	42.25%	14,437.00
100-10-5181 FD Staff Immunizations	0.00	250.00	(250.00)	0.00	3,000.00	0.00%	3,000.00
100-10-5182 FD Insurance (VFIS)	0.00	0.00	0.00	4,908.00	7,000.00	70.11%	2,092.00
100-10-5183 FD ESD Incentive	0.00	0.00	0.00	(880.69)	0.00	0.00%	880.69
100-10-5213 FD Uniforms	297.18	499.80	(202.62)	3,383.24	6,000.00	56.39%	2,616.76
100-10-5218 FD Awards	0.00	125.00	(125.00)	781.81	1,500.00	52.12%	718.19
100-10-5220 FD Office Supplies	134.61	83.33	51.28	1,104.47	1,000.00	110.45%	(104.47)
100-10-5222 FD Postage	0.00	8.33	(8.33)	15.27	100.00	15.27%	84.73
100-10-5264 FD Radios & Mics	0.00	83.33	(83.33)	0.00	1,000.00	0.00%	1,000.00
100-10-5290 FD Fire Fighting Supplies	795.09	374.85	420.24	5,635.39	4,500.00	125.23%	(1,135.39)
100-10-5291 FD EMS Supplies	97.00	833.33	(736.33)	2,116.91	10,000.00	21.17%	7,883.09
100-10-5293 FD Personal Protective Equip	142.15	2,040.85	(1,898.70)	19,730.97	24,500.00	80.53%	4,769.03
100-10-5296 FD Fire Prevention Program	0.00	83.33	(83.33)	0.00	1,000.00	0.00%	1,000.00
100-10-5310 FD Fuel, Oil & Service	401.71	749.70	(347.99)	3,750.56	9,000.00	41.67%	5,249.44
100-10-5310 FD Vehicle R & M	558.75	2,082.50	(1,523.75)	11,122.71	25,000.00	44.49%	13,877.29
100-10-5320 FD Equipment R & M	307.31	166.60	140.71	1,766.02	2,000.00	88.30%	233.98
100-10-5330 FD Building R & M	30.00	666.40	(636.40)	7,535.95	8,000.00	94.20%	464.05

City of Joshua
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100 - General Fund Fire Department	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-10-5350 FD Office Equipment R & M	295.96	416.50	(120.54)	1,970.27	5,000.00	39.41%	3,029.73
100-10-5402 FD IT Services	349.26	375.00	(25.74)	4,113.54	4,500.00	91.41%	386.46
100-10-5404 FD Contract Services	514.00	1,564.37	(1,050.37)	13,233.60	18,780.00	70.47%	5,546.40
100-10-5611 FD Principal Payments	0.00	0.00	0.00	11,840.29	11,815.00	100.21%	(25.29)
100-10-5612 FD Interest Expense	0.00	0.00	0.00	442.23	430.00	102.84%	(12.23)
100-10-5710 FD Utilities	2,068.32	2,368.63	(300.31)	18,435.58	28,435.00	64.83%	9,999.42
100-10-5750 FD Mobile Technology	473.50	481.47	(7.97)	3,965.54	5,780.00	68.61%	1,814.46
100-10-5908 FD Emergency Management	34.90	1,311.97	(1,277.07)	9,975.18	15,750.00	63.33%	5,774.82
100-10-5909 FD Miscellaneous	0.00	25.00	(25.00)	208.34	300.00	69.45%	91.66
Fire Department Totals	29,649.57	49,146.28	(19,496.71)	260,513.14	646,745.00	40.28%	386,231.86

City of Joshua
Financial Statement
As of June 30, 2020

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100 - General Fund Park Maintenance	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
100-11-5110 PK Salaries	(41,586.92)	4,604.77	(46,191.69)	0.00	59,880.00	0.00%	59,880.00
100-11-5111 PK Overtime	(1,920.24)	187.42	(2,107.66)	0.00	2,250.00	0.00%	2,250.00
100-11-5112 PK Worker's Comp	(1,028.04)	0.00	(1,028.04)	0.00	2,000.00	0.00%	2,000.00
100-11-5117 PK Longevity Pay	(340.00)	0.00	(340.00)	0.00	480.00	0.00%	480.00
100-11-5120 PK Payroll Taxes	(889.30)	71.51	(960.81)	0.00	930.00	0.00%	930.00
100-11-5130 PK Benefits	(7,137.56)	792.59	(7,930.15)	0.00	9,515.00	0.00%	9,515.00
100-11-5140 PK TMRS	(2,666.16)	291.45	(2,957.61)	0.00	3,790.00	0.00%	3,790.00
100-11-5150 PK Training & Travel	0.00	62.47	(62.47)	0.00	750.00	0.00%	750.00
100-11-5213 PK Uniforms	34.98	124.95	(89.97)	631.04	1,500.00	42.07%	868.96
100-11-5220 PK Office Supplies	0.00	12.50	(12.50)	89.05	150.00	59.37%	60.95
100-11-5261 PK Equipment Rental	0.00	12.49	(12.49)	0.00	150.00	0.00%	150.00
100-11-5270 PK Park Supplies & Materials	4.73	833.00	(828.27)	10,690.84	10,000.00	106.91%	(690.84)
100-11-5275 PK Field Supplies & Materials	0.00	333.20	(333.20)	1,647.05	4,000.00	41.18%	2,352.95
100-11-5310 PK Vehicle R & M	0.00	41.65	(41.65)	470.21	500.00	94.04%	29.79
100-11-5310 PK Fuel, Oil & Service	112.35	166.60	(54.25)	971.94	2,000.00	48.60%	1,028.06
100-11-5320 PK Equipment R & M	13.65	125.00	(111.35)	1,204.63	1,500.00	80.31%	295.37
100-11-5330 PK Building R & M	0.00	124.95	(124.95)	448.36	1,500.00	29.89%	1,051.64
100-11-5331 PK Minor Tools	0.00	8.33	(8.33)	0.00	100.00	0.00%	100.00
100-11-5335 PK Dept Building R & M	24.00	62.50	(38.50)	784.54	750.00	104.61%	(34.54)
100-11-5340 PK Irrigation R & M	0.00	1,666.00	(1,666.00)	29,384.44	20,000.00	146.92%	(9,384.44)
100-11-5402 PK IT Services	0.00	24.99	(24.99)	19.20	300.00	6.40%	280.80
100-11-5600 PK Capital Outlay >\$5,000	0.00	1,163.70	(1,163.70)	0.00	13,970.00	0.00%	13,970.00
100-11-5710 PK Dept Utilities	292.83	485.22	(192.39)	2,925.28	5,825.00	50.22%	2,899.72
100-11-5715 PK Park Utilities	1,959.56	20,440.00	(18,480.44)	16,198.30	81,760.00	19.81%	65,561.70
100-11-5720 PK Gas	0.00	49.98	(49.98)	0.00	600.00	0.00%	600.00
100-11-5750 PK Mobile Technology	72.71	77.46	(4.75)	588.49	930.00	63.28%	341.51

City of Joshua
Financial Statement
As of June 30, 2020

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100 - General Fund Park Maintenance	Current Month Actual	Current Month Budget	Budget Variance	YTD Actual	Annual Budget	% Budget Used	Budget Remaining
Park Maintenance Totals	(53,053.41)	31,762.73	(84,816.14)	66,053.37	225,130.00	29.34%	159,076.63
Expense Totals	352,854.77	367,562.41	(14,707.64)	3,065,699.76	4,961,645.00	61.79%	1,895,945.24



**MINUTES
CITY COUNCIL
REGULAR MEETING
JUNE 18, 2020
6:30 PM**

City Council Present: Joe Hollarn, Mayor; Rick DePriest, Place 1; Mike Kidd, Place 2; Angela Nichols, Place 3; Robert Purdom, Place 4; Jerry Moore, Place 5; and Scott Kimble, Place 6.

City Council Absent: NA

City Staff Present: Josh Jones, City Manager; Mike Peacock, Asst. City Manager; Aaron Maldonado, Development Services Director; Terry Welch, City Attorney; and Alice Holloway, City Secretary.

City facilities are closed to the public in response to a health emergency specifically Coronavirus Disease (COVID-19). This meeting is available via live stream.

Join Zoom Meeting

https:

<https://us02web.zoom.us/j/81963878245?pwd=VVVycjhTai9OeXY4VUthYmtkZVNUOT09>

Meeting ID: 819 6387 8245 Password: 943153

A member of the public who would like to submit a question on any item listed on this agenda may do so via the following options:

- Online: An online speaker card may be found on the city's website (cityofjoshuatx.us) on the Agenda/Minutes/Recordings page. Speaker cards received will be read during the meeting in the order received by the City Secretary.
- By phone: Please call 817/558-7447 ext. 2003 and provide your name, address, and question. Your question will be read by the City Secretary in the order they are received.

A. CALL TO ORDER AND ANNOUNCE A QUORUM PRESENT

B. WORK SESSION

1. Review and discuss questions related to the budget report and financial statement for May 2020.
(Staff Resource: J. Jones)

City Manager Jones stated that we are about 2 percent ahead of schedule in sales tax.

2. Review and discuss information related to drainage issues affecting specific commercial businesses at 609- 613 N. Broadway. (Staff Resource: M. Peacock)

Asst. City Manager Peacock stated the drainage issue was brought to the City's attention in 2015. He stated that things exacerbated during the construction of Wildwood Development, until the entire infrastructure was complete, but the problem existed prior to the development. In addition, he stated that in 2015, the City believed that it was possible to enforce the guidelines, but we learned that we had

very little enforcement authority. He stated that he talked to Mr. Wright and asked him to help resolve the problem. He stated that he did some of the requested items, but not all.

Asst. City Manager Peacock stated that the drainage issue is on private property. He stated that he asked TCEQ for assistance, but they would not be part of a civil issue.

Mrs. Julie Pool stated that they have dealt with this issue for many years. She stated that they have been in Joshua around 15 years, but the increase of flooding started after the Wildwood Development started. In addition, she stated that in the last 12-24 months, it has gotten so much worse. She stated that in 2019, they had \$16,000 dollars in damages from flooding.

Councilmember Kimble asked if the sandbags are still in place. Mr. Sid Pruitt, owner of building, stated that a lot of dirt work has been done and the City supplied sandbags to help with the flooding.

Mrs. Melinda Wolff-Foster stated that she purchased the property in 2009. She stated that in Sept 2015, a large berm was installed by Mr. Wright and after the berm was installed, they began to experience flooding. In addition, she stated that both the City Manager and Asst. City Manager assured her that the issue would be resolved. She stated that when the Wildwood Development started, they began to experience a new and extreme intensity.

Mrs. Melinda Wolff-Foster stated by mid-May, they were facing safety issues with their clients. In addition, she stated that over the last 5 years, she had communicated with city management with countless calls, meetings, and emails. She stated that the city had made assurances time and time again, but never followed through on them.

Councilmember Moore asked why is it the city should be involved. Mrs. Melinda Wolff-Foster answered because of the emails between her and the City Manager & Asst. City Manager.

Mayor Hollarn asked Mrs. Melinda Wolff-Foster to confirm that the flooding did not start until the berm was installed. Melinda Wolff-Foster confirmed that was correct. Mayor Hollarn asked why it is the City's responsibility when Mr. Wright put in a berm on his private property. Melinda Wolff-Foster stated because of the City ordinance.

Asst. City Manager Peacock stated that the ordinance is overridden by the Local Government Code and it mandates that TCEQ must be a participant in any civil litigation, which is the only option allowed in the Local Government Code. He stated that TCEQ has declined to be involved. In addition, he stated that the City has no legal authority to make him take down the berm; however he did remove the section where it directed water towards the Pet Pines building.

Councilmember Kidd asked if the ordinance in 2015 had anything in it that stated that it was illegal at that time. He also asked if the City has changed anything since then.

Councilmember Kidd asked how he got away with changing the water flow.

Asst. City Manager Peacock stated that the Local Government Code overrides the city ordinance and it states that it is a civil issue.

City Attorney Welch stated that neighboring property owners always have the option to sue the adjacent property owner. In addition, he stated that the City does not have any rights in this issue; it must be between property owners.

Councilmember Moore asked the participants if anyone has filed litigation against Wildwood Development since everyone agrees that they created the issue. Mrs. Julie Pool stated that they were told that Wildwood was untouchable and that the City was going to handle it.

Mrs. Melinda Wolff-Foster stated that she was told that Wildwood met all of city requirements. In addition, she stated that they have worked hard to try to come up with a solution and try to come up with a way the City could help them.

Mayor Hollarn stated that the City tries to find ways to help and sometimes we cannot. He stated that there are only limited situations where we can spend city funds.

Asst. City Manager Peacock stated he would be happy to reach out to TCEQ again. In addition, he stated that they might need to reach out to some of the state representatives and ask for their assistance.

Councilmember DePriest asked if there is any grant money available to assist with the issue. Asst. City Manager Peacock stated that he will look into it.

Mayor Hollarn asked City Attorney Welch to prepare a letter to TCEQ asking them to get involved. In addition, Mayor Hollarn stated that he will call State Rep. Dewayne Burns and ask for assistance.

3. Questions regarding Regular Session agenda items.

NA

C. PUBLIC FORUM, PRESENTATIONS AND RECOGNITION:

The City Council invites citizens to speak on any topic. However, unless the item is specifically noted on this agenda, the City Council is required under the Texas Open Meetings Act to limit its response to responding with a statement of specific factual information, reciting the City's existing policy, or directing the person making the inquiry to visit with City Staff about the issue. No Council deliberation is permitted. Each person will have 3 minutes to speak.

1. Introduction of Shawn Fullagar, Sergeant for the Joshua Police Department.

Mayor Hollarn stated that at the request of Police Chief Short, this item is pulled from the agenda.

D. CONSENT AGENDA

1. Consider approval of minutes from the City Council Meeting held on May 21, 2020. (Staff Resource: A. Holloway)
2. Consider ratifying the City Manager's approval of a Development Agreement between the City of Joshua and Joshua Development Company, Ltd. regarding Phase 3B of the Joshua Meadows Addition. (Staff Resource: M. Peacock)

Councilmember Kimble moved to approve the Consent Agenda. Councilmember Moore seconded the motion. The motion passed unanimously.

E. REGULAR AGENDA

1. Public hearing on the request for zoning change from Single-Family Residential (R-1) to Single-Family Residential-Large Lot (R1L) on a 2.00 acre tract of land located at 109 Little Brook Road, legally known as Lot 1-R-3 Little Brook Estates, an addition to the City of Joshua, Johnson County, Texas 76058.
 - a. Staff Presentation
 - b. Owner's Presentation
 - c. Those in Favor
 - d. Those Against
 - e. Owner's Rebuttal

Mayor Hollarn opened the public hearing at 7:32 p.m.

Development Services Director Maldonado stated the property owners have submitted a zoning change request and asking that it be changed from Single Family Residential (R-1) to Single-Family Residential-Large (R1L). He stated that this will allow them to have a stable. In addition, he stated that the zoning request is in compliance with the future land use map.

Development Services Director Maldonado stated that the Planning & Zoning Commission recommended approval on June 1, 2020 and staff recommends approval.

Danica Flew, owner of property, stated that all their neighbors have large lots and some of them have animals. She stated they have one horse that they currently board. No one spoke in favor or against.

After no more discussion or comments, Mayor Hollarn closed the public hearing at 7:35 p.m.

2. Discuss, consider, and take action on the request for zoning change from Single-Family Residential (R-1) to Single-Family Residential-Large Lot (R1L) on a 2.00 acre tract of land located at 109 Little Brook Road, legally known as Lot 1-R-3 Little Brook Estates, an addition to the City of Joshua, Johnson County, Texas 76058. (Staff Resource: A. Maldonado)

Councilmember Moore thanked the owners for going thru the process. Danica Flew stated that they are happy to comply.

Councilmember Purdom moved to approve the request for zoning change from Single-Family Residential (R-1) to Single-Family Residential-Large Lot (R1L) on a 2.00 acre tract of land located at 109 Little Brook Road, legally known as Lot 1-R-3 Little Brook Estates, an addition to the City of Joshua, Johnson County, Texas 76058. Councilmember Kidd seconded the motion. The motion passed unanimously.

3. Public hearing on the adoption of a new Zoning Ordinance, to be contained in Chapter 14, "Zoning." Of the Code of Ordinances of the City of Joshua, Texas, and repealing the existing Zoning Ordinance in its entirety, currently found in Chapter 14, "Zoning," of the Code of Ordinances of the City of Joshua, Texas.
 - a. Staff Presentation
 - b. Those in Favor
 - c. Those Against
 - d. Staff Rebuttal

Mayor Hollarn opened the public hearing at 7:37 p.m.

Karen Mitchell, Planning Consultant, stated she was going to cover everything that was changed from the last meeting.

The following items were discussed:

- Added a requirement for Planned Development District for manufacturing Housing
- Changed site plan requirements so they can be administrative approved
- Fence Ordinance will be a standalone ordinance
- Enlarging the Heritage Preservation District area
- Removing the hyperlinks and change section 5.2 to read: for uses not listed in the table of permitted uses, the City Administration will review the use to determine if there is a similar use to what is being proposed. If there is no similar use to what is being proposed, the applicant may request for the use to be added to the table of permitted uses. The City Administration will recommend to the planning and zoning commission, the appropriate

district or districts that the proposed use should be allowed in. The City Council upon recommendation of the Planning And Zoning Commission shall have final authority on determining the use and location.

- Added section for outside storage and display
- Amendments 3.1.4d to: Upon the receipt of the report and recommendation of the Planning and Zoning Commission of an application to rezone property or to amend the zoning ordinance, not previously scheduled, the City Council shall schedule the application or amendment for public hearing and shall give notice of the time and place of the hearing by one publication in the official newspaper at least fifteen days prior to such hearing.

Mrs. Mitchell thanked the CC and staff for working on this ordinance.

Mayor Hollarn closed the public hearing at 7:51 p.m.

4. Discuss, consider, and take action on the adoption of a new Zoning Ordinance, to be contained in Chapter 14, "Zoning." Of the Code of Ordinances of the City of Joshua, Texas, and repealing the existing Zoning Ordinance in its entirety, currently found in Chapter 14, "Zoning," of the Code of Ordinances of the City of Joshua, Texas. (Staff Resource: J. Jones)

Mayor Hollarn asked if the citizens who are going to be apart of the Heritage Preservation District going to have to do anything. Mrs. Mitchell stated that if they change the appearance or rebuilt the house, then they will. In addition, she stated that this is to accommodate the area and allow mix uses in the area.

Councilmember Purdom questioned the wording in section 2.4.3 (c)-Terms-Each Commission shall be appointed for a two year term beginning October 1st. No members shall serve for more than four consecutive terms or eight years (whichever is less), and may be reappointment by the Council for additional terms. Mayor Hollarn asked to remove the last sentence. City Attorney Welch stated that once there is a break in terms, the clock starts ticking again.

Councilmember Purdom questioned the wording in section -2.5.2- The member must serve full term of three years unless removed as provided below. City Attorney Welch stated that all boards are 2 years. In addition, he stated that it is a good idea to have all boards terms start October 1.

Mayor Hollarn asked that the term limits in section 2.5.1 (B3) be changed from 12 years to 8 years.

Councilmember Purdom moved to approve the adoption of a new Zoning Ordinance, to be contained in Chapter 14, "Zoning." Of the Code of Ordinances of the City of Joshua, Texas, and repealing the existing Zoning Ordinance in its entirety, currently found in Chapter 14, "Zoning," of the Code of Ordinances of the City of Joshua, Texas. Councilmember Nichols seconded the motion. The motion passed unanimously.

5. Discuss, consider, and take action on an Ordinance of the City Council of the City of Joshua, Texas, establishing a Homestead Tax Exemption in the amount of five percent (5%) of the appraised value of the homestead; making findings; and providing an effective date. (Staff Resource: J. Jones)

Councilmember Moore moved to approve an Ordinance of the City Council of the City of Joshua, Texas, establishing a Homestead Tax Exemption in the amount of five percent (5%) of the appraised value of the homestead; making findings; and providing an effective date. Councilmember Kidd seconded the motion. The motion passed unanimously.

6. Discuss and consider ratifying the Type A Board's approval of Rumfield's reimbursement for construction of downtown public improvements. (Staff Resource: J. Jones)

Councilmember Moore moved to ratify the Type A Board's approval of Rumfield's reimbursement for construction of downtown public improvements. Councilmember Nichols seconded the motion.

The motion passed unanimously.

F. STAFF REPORT

May 2020

1. Police Department Report
2. Fire Department Report
3. Municipal Court Report
4. Public Works Report
5. Parks Report
6. Development Services Report
7. City Secretary Report

G. FUTURE AGENDA ITEMS/REQUESTS BY COUNCILMEMBERS TO BE ON NEXT

AGENDA *Councilmembers shall not comment upon, deliberate, or discuss any item that is not on the agenda. Councilmembers shall not make routine inquiries about operations or project status on an item that is not posted. Any Councilmember may, however, state an issue and a request that this issue be placed on a future agenda.*

The following items were requested to be on the next agenda:

- 1) City Board and Commission Report with terms
- 2) Budget Schedule

H. ADJOURNMENT

Mayor Hollarn adjourned the meeting at 8:46 pm.

Joe Hollarn, Mayor

ATTEST:

Alice Holloway, TRMC
City Secretary

Approved: July 16, 2020



City Council Agenda July 16, 2020

Agenda Item:E2

Ordinance

(Action Item)

Agenda Description:

Discuss, consider, and take action on a ordinance of the City Council of the City of Joshua, Texas, designating Scott Porter as employee to calculate the no-new revenue Tax Rate and the Voter Approval Tax Rate in accordance with the Texas Tax Code.

Background Information:

After the passing of Senate Bill 2, each taxing unit's governing body is required to designate an officer or employee by August 1st, to calculate the no-new-revenue and the voter-approval tax rates for the taxing unit. In addition, as per Property Tax Code Section 26.04 (c), the designated person will also certify the accuracy of the Tax Rate Calculations worksheets.

Financial Information:

NA

City Contact and Recommendations:

Josh Jones, City Manager

Alice Holloway, City Secretary

Staff recommends approval of resolution.

Attachments:

- 1) Resolution

CITY OF JOSHUA
ORDINANCE NO. _____

**AN ORDINANCE OF THE CITY OF JOSHUA DESIGNATING PERSON TO
FULFILL DUTIES IMPOSED BY TAX CODE CHAPTER 26**

WHEREAS, the 86th Texas Legislature in Regular Session, amended Tax Code § 26.04 which requires each governing body, as part of the tax rate adoption process to designate an officer or employee to do certain tasks, including the calculation of the relevant tax rates and the preparation of notices for publication; and

WHEREAS, the Joshua City Council has designated by contract the Tax Assessor-Collector of the County of Johnson as the unit's Tax Assessor-Collector pursuant to Chapter 6 of the Texas Tax Code; and

WHEREAS, said Tax Assessor/Collector, pursuant to state statute, is required to maintain coursework on all aspects of property taxation including tax rate calculation and adoption;

NOW THEREFORE, BE IT ENACTED BY THE GOVERNING BODY OF THE CITY OF JOSHUA THAT: Scott Porter, as Tax Assessor-Collector is hereby and herewith designated by the Joshua City Council as the person to perform the required calculation of the relevant tax rates and the preparation of notices for publication.

THIS ORDINANCE will take effect immediately for tax year 2020 forward until modified or repealed.

Dated this 16th day of July, 2020.

Joe Hollarn, Mayor

Attested:

Alice Holloway, City Secretary



City Council Agenda July 16, 2020

Agenda Item: E3

Agreement

(Action Item)

Agenda Description:

Discuss, consider, and take action on a Memorandum of Understanding between the City of Joshua and the Joshua Independent School District outlining services provided and responsibilities of the Joshua Police Department and the Joshua Independent School District; and authorizing the Mayor to sign.

Background Information:

The purpose of this MOU is to set out a common understanding of the policies and procedures that the Joshua Police Department and the Joshua ISD Police Department will follow in providing police service to Joshua ISD schools in Joshua, Johnson County and/or The State of Texas. This MOU is a formal agreement to clarify jurisdiction, define parameters and areas of responsibilities, and to establish a spirit of cooperation to enhance the services that both agencies provide to the citizens residing within the city limits of Joshua, Texas, in accordance with the provisions of the ***Texas Education Code, Section 37.081.***

This MOU requires annual renewal and extends the current agreement through July 31, 2021

Financial Information:

There is no anticipated financial impact.

City Contact and Recommendations:

Shaun Short, Chief of Police

Staff recommends approval

Attachments:

Memorandum of Understanding

MEMORANDUM of UNDERSTANDING

Between

CITY OF JOSHUA, on behalf of its POLICE DEPARTMENT

AND

**JOSHUA INDEPENDENT SCHOOL DISTRICT, on behalf of its POLICE
DEPARTMENT**

This Memorandum of Understanding (MOU) is being executed by the Joshua Independent School District, on behalf of its Police Department, in conjunction with the City of Joshua, on behalf of its Police Department. These departments agree to abide by the terms and provisions of this MOU throughout the duration of this agreement.

PURPOSE

The purpose of this MOU is to set out a common understanding of the policies and procedures that the Joshua Police Department, and the Joshua ISD Police Department will follow in providing police service to Joshua ISD schools in Joshua, Johnson County and/or The State of Texas. This MOU is a formal agreement to clarify jurisdiction, define parameters and areas of responsibilities, and to establish a spirit of cooperation to enhance the services that both agencies provide to the citizens residing within the city limits of Joshua, Texas, in accordance with the provisions of the *Texas Education Code, Section 37.081*.

MISSION

The mission of this MOU is to provide better utilization of resources by the Joshua Police Department and Joshua ISD Police Department. Further, it will substantially increase cooperation between these two departments eliminating waste of public resources and resulting in better accumulation of crime analysis data and ultimately providing the safest environment possible for the school children of Joshua ISD and reducing crime in Joshua, Texas.

TERMS OF AGREEMENT

This agreement shall be in full force and effect from the date of the last party to sign this Agreement until July 31, 2021. This agreement may be renewed annually upon approval by both parties. Either party may terminate this agreement upon giving written notice thirty (30) days prior to the date of termination.

SERVICES PROVIDED AND RESPONSIBILITIES OF THE JOSHUA POLICE DEPARTMENT

- The Joshua Police Department will assume primary jurisdiction and serve as the lead agency for any law enforcement action originating or ending in the Joshua city limits except those where the incident occurs exclusively on and involving property owned, leased, rented or otherwise under the control of the Joshua ISD School Board. The Joshua Police Department will retain primary jurisdiction if any of its officers discharges a firearm, is alleged to have

caused serious bodily injury or death or are the victim of an assault resulting in serious bodily injury or death.

- The department may defer jurisdiction to Joshua ISD Police in any instance when it is deemed by the Joshua Police Department to enhance police service to the community.
- Media requests for press releases involving police incidents where the Joshua ISD Police Department has primary jurisdiction will be referred to the Joshua ISD. Records that are property of the City of Joshua are subject to the Texas Public Information Act and will be released in accordance with city policy.
- The Joshua Police Department will provide assistance to the Joshua ISD Police Department in accordance with the provisions of the GREATER DALLAS-FORT WORTH REGIONAL LAW ENFORCEMENT MUTUAL AID TASK FORCE AGREEMENT
- The Joshua Police Department agrees to notify the Joshua ISD Police Department of any warrant service initiated by the department occurring on a Joshua campus except those for Class C misdemeanors or those resulting from a traffic stop initiated on a public roadway.
- The Joshua Police Department agrees to participate in the initial law enforcement response to any major police incident including an active shooter, barricaded person or hostage incident occurring on a Joshua ISD property in the City of Joshua. The Joshua Police Department may assume initial command of these incidents until a representative from the JISD Police Department is available on scene.
- The Joshua Police Department will respond to and assume the role of lead agency to any incident occurring on Joshua ISD property occurring while no JISD Police officer is on-duty. Joshua ISD Police will be notified of the incident as soon as practicable.
- The Joshua Police Department will share intelligence information it develops regarding any JISD campus with the Joshua ISD Police Department.
- Whenever practicable the Joshua Police Department will provide to the Joshua ISD Police Department emergency assistance at their property within the City of Joshua. When significant resources are required for a prolonged period of time or a special event is planned the request should be made to the Chief of Police or designee.
- Planned Special Events utilizing on-duty Joshua Police Officers may require reimbursement for costs incurred to the City of Joshua.

SERVICES PROVIDED AND RESPONSIBILITIES OF THE JOSHUA INDEPENDENT SCHOOL DISTRICT POLICE DEPARTMENT:

- The Joshua ISD Police Department will have primary law enforcement jurisdiction within the city limits of Joshua involving property owned, leased, rented or otherwise under the control of the Joshua ISD School Board.
- Media requests for press releases involving police incidents where the Joshua Police Department has primary jurisdiction will be referred to the City of Joshua. Records that are property of the Joshua ISD are subject to the Texas Public Information Act and will be released in accordance with Board policy.
- The Joshua ISD Police Department will provide assistance to the Joshua Police Department in accordance with the provisions of the GREATER DALLAS-FORT WORTH REGIONAL LAW ENFORCEMENT MUTUAL AID TASK FORCE AGREEMENT
- The Joshua ISD Police Department may provide traffic control, management or enforcement that enhances the safety of their campuses on any road owned by the city where it is adjacent

to a Joshua ISD School campus and other roads while they are being utilized as a JISD school bus stop. The district will assume liability for any costs associated with such action. This agreement does not limit the authority of the Joshua ISD Police Department's officers granted by state law.

- Any citation issued by the Joshua ISD Police Department for a class C offense occurring in the City of Joshua will be referred to the Joshua Municipal Court for prosecution. Citations issued will be delivered and turned into the court clerk within 24 hours of issuance.
- The Joshua ISD Police Department must implement and make available to the Joshua Police Department a traffic enforcement and pursuit policy that aligns with those of the Joshua Police Department.
- The Joshua ISD Police Department will provide monthly statistics describing traffic stop locations, violations and warning for violations within the city limits of Joshua.
- Whenever practicable the Joshua ISD Police Department will provide the Joshua Police Department emergency assistance as requested. When significant resources are needed, request should be made to the Chief of Police or designee.
- The Joshua ISD Police Department agrees to notify the Joshua Police Department of any warrant service initiated by the department and occurring in the city of Joshua except those for Class C misdemeanors, those resulting from a traffic stop or those occurring on property owned, leased, rented or otherwise under the control of the Joshua ISD School Board.
- The Joshua ISD Police Department will share intelligence information it develops regarding crime related to the City of Joshua with the Joshua Police Department.

ASSIGNMENT

Neither party shall assign, transfer, or sub-contract any of its rights, burdens, duties, or obligations under this Agreement without the prior written permission of the other party to this Agreement.

CITY LIABILITY

The City understands and agrees that the City, its employees, servants, agents, and representatives shall at no time represent themselves to be employees, servants, agents, and/or representatives of the School District. The City shall not be required to indemnify nor defend the School District for any liability arising out of the wrongful acts of employees or agents of the School District to the extent allowed by Texas law.

SCHOOL DISTRICT LIABILITY

The School District understands and agrees that the District, its employees, servants, agents, and representatives shall at no time represent themselves to be employees, servants, agents, and/or representatives of the City. The District shall not be required to indemnify nor defend City for any liability arising out of the wrongful acts of employees or agents of City to the extent allowed by Texas law.

SEVERABILITY

Nothing contained in this agreement shall waive the respective immunities of the City of Joshua and Joshua Independent School District.

The validity of this Agreement and/or any of its terms or provisions, as well as the rights and duties of the parties hereto, shall be governed by the laws of the State of Texas. In the event that any portion of this Agreement shall be found to be contrary to law, it is the intent of the parties hereto that the remaining portions shall remain valid and in full force and effect to the extent possible.

SIGNATORIES

For City of Joshua :

Chief of Police
Joshua Police Department

Date

ATTEST:

City Manager
City of Joshua

Date

Approved as to form:

City Attorney
City of Joshua

Date

For the Joshua Independent School District:

Board President
Joshua ISD

Date

ATTEST:

Board Secretary
Joshua ISD

Approved as to form:

School Attorney
Joshua ISD

Date



City Council Agenda July 16, 2020

Agenda Item: E4

Agreement

(Action Item)

Agenda Description:

Consider approval of the Interlocal Agreement between Johnson County Special Utility District and the City of Joshua concerning water utilities facilities relocation and maintenance for Cooper Valley Phase 5.

Background Information:

The City of Joshua has approved a planned development for single-family residential on more or less of 17.722 acres known as Cooper Valley Phase 5. All new developments past and present have warranted an agreement to allow for placement of water facilities in the ROW. Areas agreed upon would be relocation, adjustment or removal should any capital projects take place in the future. Others areas covered are responsibilities of construction, cost and maintenance.

Financial Information:

N/A

City Contact and Recommendations:

Aaron Maldonado, Development Services Director
Staff recommends approval

Attachments:

- 1) Interlocal Agreement

INTERLOCAL AGREEMENT – JCSUD AND THE CITY OF JOSHUA
WATER UTILITIES FACILITIES RELOCATION AND MAINTENANCE
COOPER VALLEY PHASE 5

This **INTERLOCAL AGREEMENT FOR WATER UTILITIES FACILITIES RELOCATION AND MAINTENANCE** (“Agreement”) relative to the Cooper Valley Phase 5 Development in the City of Joshua is entered into by and between Johnson County Special Utility District (“JCSUD”) and the City of Joshua, Texas (“Joshua” or the “City”), to be effective as of the last date of execution by JCSUD and Joshua (the “Effective Date”). JCSUD and Joshua may be referred to herein individually as a “Party” or collectively as the “Parties.”

WHEREAS, JCSUD is a conservation and reclamation district created pursuant to Section 59, Article XVI of the Texas Constitution and operating under Chapters 49 and 65 of the Texas Water Code; and

WHEREAS, Joshua is a home-rule city acting under its charter adopted pursuant to Article XI, Section 5 of the Texas Constitution and Chapter 9 of the Local Government Code, as amended; and

WHEREAS, on or about 07/17/2008 , the City approved a planned development for single-family residential development on 17.722 acres, more or less, to be known as the Cooper Valley Phase 5 Development (the “Development”), and a legal description of such property is attached hereto as Exhibit A and incorporated by reference; and

WHEREAS, on or about June 23,2020, JCSUD approved a planned development for single-family residential development consisting of 69 lot(s), without offsite improvements, to be known as the Cooper Valley Phase 5 Development (the “Development”), an overall water facilities layout of said development is attached hereto as Exhibit B and incorporated by reference; and

WHEREAS, Joshua may act to take on certain capital projects (the “Projects”) such as roadway extensions or other right-of-way adjustments as designated by Joshua relative to the Development for the intended purpose of improved public access, including but not limited to additional lane capacity, storm drainage improvements, curbing, etc.; and

WHEREAS, such Projects relative to the Development may necessitate the adjustment, removal, and/or relocation of certain water utilities facilities belonging to JCSUD, including but not limited to engineering, easement acquisition costs, and construction to relocate JCSUD utility lines along, within, or across any right-of-way within the City; and

WHEREAS, JCSUD is willing to work with the City to permit the relocation necessary for such projects relative to the Development, according to the terms and conditions set forth herein, including but not limited to reimbursement for any relocation.

NOW, THEREFORE, in consideration of the mutual promises set forth herein and for other good and valuable consideration the receipt and sufficiency of which being hereby acknowledged, the Parties agree as follows:

I. RELOCATION

1. Area and Facilities Subject to Relocation. The Parties agree that the Projects relative to the Development will be thoroughly described and defined in any Project plans as submitted along with the City's formal request for relocation of waterline facilities.
2. Responsibility for Construction. The Parties agree that JCSUD shall be responsible for conducting necessary engineering, inspection, and/or surveying of the area to which the water utilities facilities will be relocated, and acquiring easements for the relocation. The Parties agree that JCSUD shall review and approve the construction plans and provide inspection during construction. JCSUD agrees that Joshua may assign the necessary engineering, and/or subcontract any relocation work to any contractor, including to the general contractor selected by Joshua to undertake all or part of the Projects.
3. Construction Notice. After the Effective Date, Joshua agrees to provide written notice authorizing JCSUD to begin performing work for any relocation ("Construction Notice"). JCSUD agrees to perform such work diligently, and to conclude the relocation within one (1) year from the date of JCSUD's receipt of the Construction Notice ("Completion Date"). However, the Completion Date shall be extended for delays caused by events outside JCSUD's control, including but not limited to a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood, adverse weather, or other act of God, sabotage, interference by Joshua, including suspension under Section II of this Agreement, or any third party with JCSUD's ability to proceed with any relocation, or any other event in which JCSUD has exercised all due care in the prevention thereof so that the causes or other events are beyond the control and without the fault or negligence of JCSUD.

II. REIMBURSEMENT

1. Costs. Joshua agrees to reimburse JCSUD for any and all costs associated incurred by it with any water utilities facilities relocation relative to the Development, including, but not limited to, engineering, design, surveying, permitting, legal, and other consulting costs, costs of acquiring easements, oversight costs associated with JCSUD's internal administration and staff, and any and all construction and inspection costs.
 - i. The Parties agree that the estimated costs constitute a reasonable estimate of the costs of any relocation. The Parties acknowledge that the costs may increase or decrease from the total amount but such increase or decrease shall not relieve Joshua of the duty to reimburse JCSUD. If JCSUD anticipates an increase in the estimated costs of more than five percent (5%), then JCSUD or its engineer will provide a change order to Joshua identifying the amount of the anticipated change and the reason for the anticipated change ("Change Order"). JCSUD agrees to use reasonable efforts to provide any Change Order to Joshua within fourteen (14) days of the date that JCSUD, or its engineer, determines that an increase in costs is anticipated.

- ii. In the event JCSUD elects to assign any relocation construction to Joshua for administration by Joshua's general contractor in accordance with Section I.2. of this Agreement, the Parties agree that Joshua may pay its general contractor directly rather than reimbursing JCSUD for costs incurred by the general contractor.
 - iii. Joshua will not be responsible for the incremental construction costs, as reasonably determined by JCSUD's engineer, resulting from the improvement, upgrading, oversizing, or betterment (the "Betterment") of existing facilities; provided, however, that nothing herein shall prohibit JCSUD from electing to improve or otherwise better its facilities simultaneously with any relocation. The expected incremental construction costs associated with the Betterment shall be listed and itemized in writing by JCSUD.
 - iv. Where JCSUD's policies, rules, and procedures, then in effect, require a particular line to be of a different size than the existing line which is subject to relocation (including JCSUD's minimum line size policy), the Parties acknowledge and agree that meeting the requirements of such a policy, rule or procedure will not be considered Betterment and the costs of such change will not be within the Betterment costs.
2. Invoices. JCSUD agrees to account for any relocation costs using JCSUD's established accounting procedures. JCSUD will submit invoices for work performed on an incremental basis throughout any relocation. JCSUD will provide documentation in support of the invoices as reasonably requested in writing by Joshua.
3. Payment of Invoices. Joshua will pay the invoices submitted by JCSUD within thirty (30) days of Joshua's receipt of the invoice. If Joshua disputes any amount of an invoice, Joshua agrees to pay the full amount of the invoice and to submit notice, in writing, to JCSUD of the amount Joshua disputes and the reason for such dispute within thirty (30) days of receipt of the invoice. Invoices for which no such timely notification is received shall be deemed accepted by Joshua as true and correct. The Parties shall seek to resolve all such disputes expeditiously and in good faith.
4. Failure to Pay Invoices. Joshua agrees that the failure to pay any invoice within sixty (60) days of receipt of the invoice will constitute a material breach of this Agreement and will entitle JCSUD to all remedies available in law or in equity, including, but not limited to, termination of this Agreement. All late payments shall bear interest at the lesser rate of 1.5% per month or the highest rate permissible under applicable law, calculated daily and compounded monthly. Joshua shall also reimburse JCSUD for all costs incurred in collecting any late payments, including, without limitation, attorneys' fees. In addition to all other remedies available, JCSUD shall be entitled to suspend any Project if Joshua fails to pay any invoice when due hereunder and such failure continues for sixty (60) days following written notice thereof.

III. MAINTENANCE

The Parties agree that JCSUD shall be the entity of record to repair its distribution lines and all related facilities as needed to maintain normal operations. Joshua agrees that JCSUD may place, construct, maintain and operate new water utilities facilities for the Development in Joshua's right-of-way or easements; however, in the event that Joshua thereafter desires the relocation of those water utilities facilities, Joshua shall be responsible for the costs associated with such relocation, and JCSUD and Joshua will coordinate the relocation process. JCSUD may utilize appropriate Joshua contractors or in-house forces on a "cost plus" basis when such use is available without causing delay or harm to Joshua.

IV. BENEFIT

Absent this Agreement, JCSUD would seek to install all distribution/collection lines and related facilities within an easement at every opportunity since JCSUD is subject to the City's demand to relocate utilities when Joshua engages a capital project where its placement will be in conflict with the existing location of JCSUD's utilities within the City right-of-way. This Agreement enables JCSUD to comply with the City's development standards whereby water and sewer facilities are planned and installed within the jurisdictional area of the City and its rights-of-way to optimize land use to the benefit of Joshua and its development planning relative to the Development. Accordingly, Joshua assures that JCSUD water and sewer facilities may be located within the City right-of-way and while other utilities may cross over, Joshua shall ensure no other utilizes run along JCSUD's facilities closer than two feet (2') from JCSUD's facilities so that normal maintenance is not impeded.

V. MISCELLANEOUS

1. Notices. Notices shall be in writing and delivered personally, or mailed by registered mail or certified mail, return receipt requested, postage prepaid, or transmitted by facsimile transmission (receipt of such transmission to be acknowledged by the recipient) to the Parties at their respective addresses shown below:

Johnson County Special Utility District
Attn. Peter Kampfer, General Manager
P.O. Box 509
Cleburne, TX 76033
(817) 760-5200

City of Joshua
Attn: Josh Jones, City Manager
101 S. Main St.
Joshua, TX 76058
(817) 558-7447

2. Compliance with Applicable Laws. The Parties agree that they will comply with all federal and state laws, rules, and regulations applicable to construction associated with the Projects and any relocation.

3. Disclaimer of Indemnification. The Parties agree that neither of them may indemnify the other under Texas state law for any reason, including any tort or other claim for (i) any injury or death of any person; (ii) any loss or damage to a vehicle or other personal property; or (iii) any loss or damage to any real property.
4. Governing Laws. This Agreement shall be governed by and construed and enforced under the laws of the State of Texas.
5. Venue. The obligations and undertakings of each of the Parties to this Agreement shall be performed in Johnson County, Texas. The parties expressly agree that all judicial proceedings to enforce any of the provisions of this Agreement shall take place in Johnson County, Texas.
6. Third Party Beneficiaries. The Parties agree that there are no third party beneficiaries to this Agreement.
7. Attorneys' Fees. Except as provided in Section II of this Agreement, each Party shall bear its own attorneys' fees and costs related to this Agreement.
8. Entire Agreement. This Agreement contains the entire agreement of the Parties with respect to the subject matter of the Agreement. No agreement, statement, or promise made by any Party or to any employee, agent, or officer of any Party that is not contained in this Agreement shall be valid, binding, or of any force or effect.
9. Exhibits. All Exhibits hereto are incorporated as if set forth in their entirety in this Agreement.
10. Amendment. Any amendments to this Agreement must be in writing and signed by all the Parties.
11. Successors and Assigns. This Agreement shall be binding upon the parties hereto and their respective successors, heirs, representatives, and assigns. Notwithstanding the foregoing, no Party to this Agreement may assign their rights or obligations under this Agreement without the written consent of the other Parties.
12. Construction. This Agreement shall be deemed drafted equally by the Parties hereto. The language of all parts of this Agreement shall be construed as a whole according to its fair meaning, and any presumption or principle that the language herein is to be construed against either Party shall not apply. When required by context, the gender of words in this Agreement includes the masculine, feminine, and neuter genders and the singular includes the plural (and vice-versa). The headings in this Agreement are for convenience only and shall not affect the interpretation of this Agreement.
13. Severability. Should any provision of this Agreement be declared void by a court of competent jurisdiction, the remaining provisions of this Agreement shall remain in full force and effect.
14. Authority. The respective signatories to this Agreement represent that they are authorized to sign this Agreement on behalf of their respective Party, and that such signatory has

received the necessary approval of its governing body to execute this Agreement on the Party's behalf.

15. Execution. This Agreement may be executed in multiple counterparts, each of which shall constitute an original, and all of which counterparts, when taken together, shall constitute one and the same Agreement. The Parties agree that delivery of a signed counterpart, or the signed Agreement or amendment by facsimile or electronic mail, shall be deemed the same as the delivery of an original document.

16. Enforceability. The Parties acknowledge and agree that this Agreement is a written contract stating the essential terms of the Parties' agreement for providing goods and services under Subchapter I of Chapter 271 of the Texas Local Government Code.

17. Waiver. Any waiver by any Party of its rights with respect to a default or requirement under this Agreement will not be deemed a waiver of any subsequent default or other matter.

**JOHNSON COUNTY
SPECIAL UTILITY DISTRICT**

By: _____
Name: _____
Title: _____
Date: _____

ATTEST:

Name: _____

[SEAL]

CITY OF JOSHUA, TEXAS

By: _____
Name: _____
Title: _____
Date: _____

ATTEST:

Name: _____

[SEAL]

EXHIBIT A

(Cooper Valley Phase 5 Property Legal Description)

LEGAL DESCRIPTION

A TRACT OF LAND OUT OF THE MCKINNEY & WILLIAMS SURVEY, ABSTRACT NO. 636, JOHNSON COUNTY, TEXAS, BEING A PORTION OF THAT 24.405 ACRE TRACT CONVEYED TO CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC BY SPECIAL WARRANTY DEED RECORDED IN VOLUME 3584, PAGE 42, DEED RECORDS, JOHNSON COUNTY, TEXAS, AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A FOUND 1/2" STEEL ROD AT THE SOUTHEAST CORNER OF LOT 10X, BLOCK 10, COOPER VALLEY, PHASE 2-B2, AN ADDITION TO THE CITY OF JOSHUA, JOHNSON COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN VOLUME 10, PAGE 66, DRAWER D, PLAT RECORDS, JOHNSON COUNTY, TEXAS, AND IN THE WEST LINE OF THAT TRACT CONVEYED TO CLIFFORD WAYNE SHIPLEY ET AL, BY WARRANTY DEED RECORDED IN VOLUME 2018, PAGE 420 OF SAID DEED RECORDS;

THENCE SOUTH 00°29'49" EAST ALONG THE WEST LINE OF SAID SHIPLEY TRACT AND THE EAST LINE OF SAID CROSS TIMBERS TRACT, 1,142.24 FEET TO A POINT IN THE CENTERLINE OF STADIUM DRIVE;

THENCE SOUTH 89°25'13" WEST ALONG THE SOUTH LINE OF SAID CROSS TIMBERS TRACT AND THE CENTERLINE OF SAID STADIUM DRIVE, 584.96 FEET TO THE SOUTHEAST CORNER OF THAT 1.0431 ACRE TRACT CONVEYED TO THE JOSHUA INDEPENDENT SCHOOL DISTRICT (JISD) BY SPECIAL WARRANTY DEED RECORDED IN VOLUME 4524, PAGE 326, OF SAID DEED RECORDS;

THENCE NORTH 00°27'08" WEST ALONG THE EAST LINE OF SAID JISD TRACT, 699.08 FEET TO A SET 1/2" STEEL ROD AT THE NORTHEAST CORNER THEREOF;

THENCE SOUTH 89°31'38" WEST ALONG THE NORTH LINE OF SAID JISD TRACT, AT 65.00 FEET PASSING THE NORTHWEST CORNER THEREOF AND CONTINUING ALONG THE NORTH RIGHT-OF-WAY LINE OF HENDERSON STREET, A 50 FEET WIDE PUBLIC STREET AND THE SOUTH LINE OF SAID CROSS TIMBERS TRACT, IN ALL 484.12 FEET TO SET 1/2" STEEL ROD AT THE WESTERLY SOUTHWEST CORNER OF SAID CROSS TIMBERS TRACT AND THE SOUTHEAST CORNER OF THAT TRACT CONVEYED TO JIMMY ROSS SHIPLEY BY DEED RECORDED IN VOLUME 704, PAGE 574 OF SAID DEED RECORDS;

THENCE NORTH 00°28'48" WEST ALONG THE WEST LINE OF SAID CROSS TIMBERS TRACT AND THE EAST LINE OF SAID SHIPLEY TRACT, AND THE EAST LINE OF THAT TRACT CONVEYED TO FREDDIE DUKE AND WIFE, CHERYL DUKE BY WARRANTY DEED RECORDED IN VOLUME 1242, PAGE 192, OF SAID DEED RECORDS, 280.87 FEET TO A FOUND 1/2" STEEL ROD AT THE SOUTHWEST CORNER OF LOT 17, BLOCK 8, COOPER VALLEY, PHASE 3A, AN ADDITION TO THE CITY OF JOSHUA, JOHNSON COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN VOLUME 10, PAGE 613, DRAWER E, OF SAID PLAT RECORDS;

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NORTH 84°03'21" EAST, 130.68 FEET TO A FOUND 1/2" STEEL ROD;

NORTH 00°06'31" WEST, 33.95 FEET TO A FOUND 1/2" STEEL ROD;

NORTH 81°43'55" EAST, 166.87 FEET TO A SET 1/2" STEEL ROD IN THE EAST RIGHT-OF-WAY LINE OF ALEXANDRIA LANE, A 50 FEET WIDE PUBLIC STREET, AND IN A CURVE TO THE LEFT WHOSE RADIUS BEARS SOUTH 76°34'09" WEST, 625.00 FEET;

ALONG THE EAST RIGHT-OF-WAY LINE OF SAID ALEXANDRIA LANE AND ALONG SAID CURVE TO THE LEFT THROUGH A CENTRAL ANGLE OF 01°56'09", AN ARC LENGTH OF 21.12 FEET (LONG CHORD BEARS NORTH 14°23'56" WEST, 21.11 FEET) TO A SET 1/2" STEEL ROD AT THE END OF THIS CURVE;

NORTH 15°22'00" WEST ALONG THE EAST RIGHT-OF-WAY LINE OF SAID ALEXANDRIA LANE, 2.20 FEET TO A FOUND 1/2" STEEL ROD;

NORTH 89°30'11" EAST, 120.36 FEET TO A FOUND 1/2" STEEL ROD AT THE SOUTHEAST CORNER OF LOT 28, BLOCK 11 OF SAID COOPER VALLEY, PHASE 3A;

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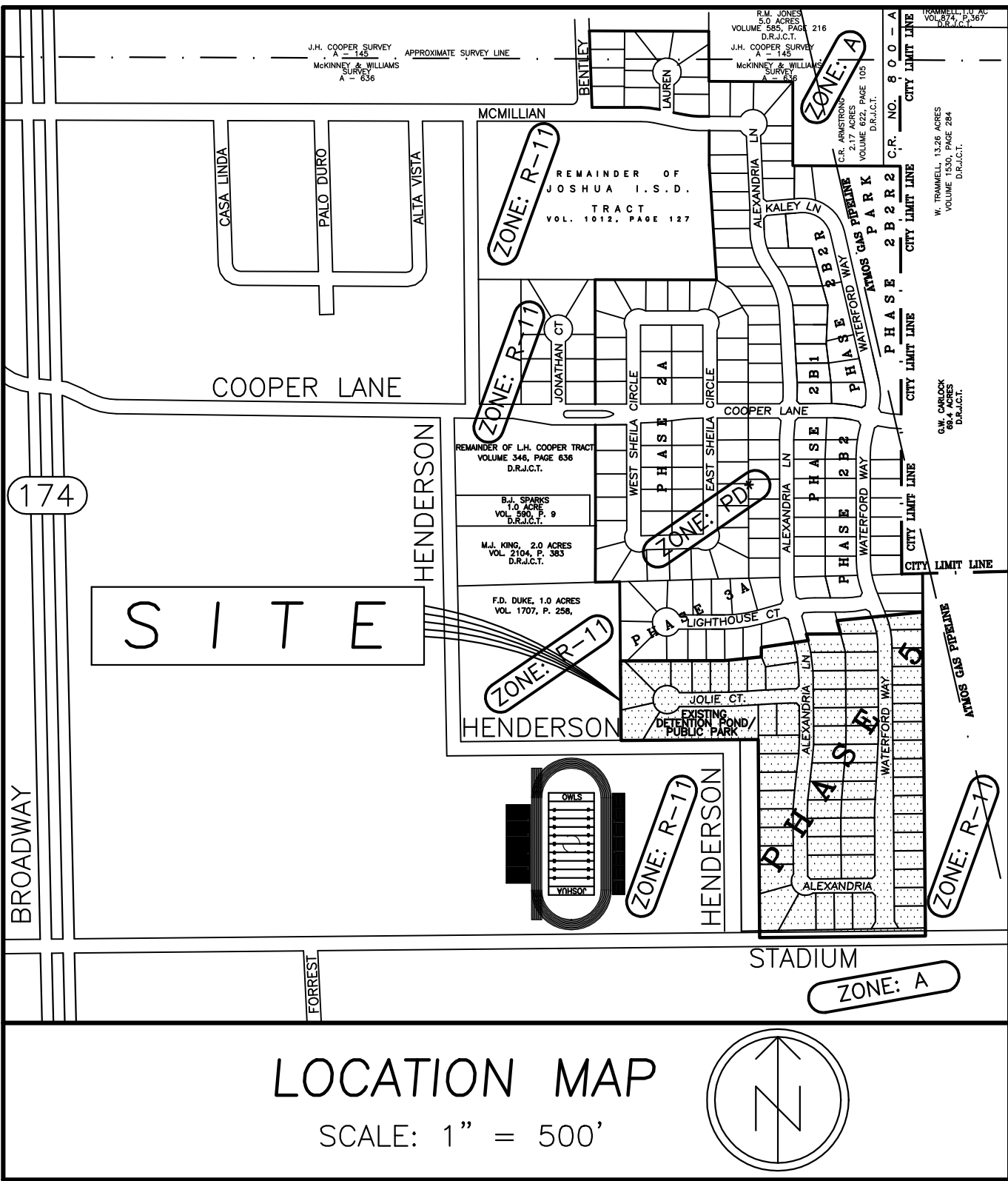
THENCE NORTH 84°17'36" EAST ALONG THE SOUTH LINE OF SAID COOPER VALLEY, PHASE 2-B2, 303.93 FEET TO THE POINT OF BEGINNING AND CONTAINING 17.722 ACRES (771,963 SQUARE FEET) OF LAND, MORE OR LESS.

EXHIBIT B

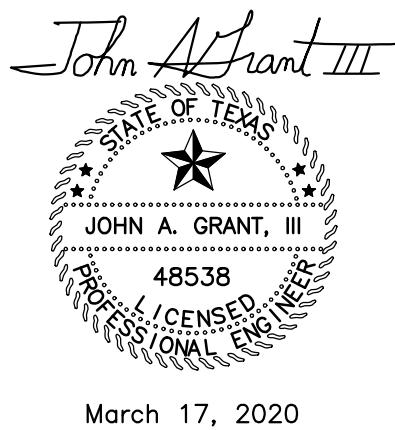
(Cooper Valley Phase 5 JCSUD Approved Water Facilities Layout)

THE CITY OF JOSHUA, TEXAS
CONSTRUCTION PLANS
FOR
COOPER VALLEY, PHASE 5
GRADING, PAVING, DRAINAGE,
SEWER AND WATER IMPROVEMENTS

MARCH 2020



DEVELOPER:
CROSS TIMBERS REAL ESTATE
6654 LAUREL VALLEY DRIVE
FORT WORTH, TEXAS 76132
817-294-3834



INDEX TO SHEETS

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10	SANITARY SEWER SERVICE CROSS SECTIONS
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12 - 13	(NOT USED)
STORM DRAIN SHEETS (SD1 - SD9):	
SD1	HYDRAULIC DRAINAGE AREA EXISTING CONDITIONS
SD2	HYDRAULIC DRAINAGE AREA POST-PROJECT CONDITIONS
SD3	HYDROLOGIC / HEC-HMS CALCULATIONS / RESULTS
SD4	DRAINAGE AREA MAP / CALCULATIONS
SD5	DRAINAGE AREA MAP / CALCULATIONS
SD6	100-YR DESIGN STORM HYDRAULIC GRADE CALCULATIONS
SD7	25-YR DESIGN STORM HYDRAULIC GRADE CALCULATIONS
SD8	STORM DRAIN A
SD9	STORM DRAIN A & B
14 - 15	SEWER AND WATER DETAILS
16	STREET DETAILS
17	EROSION CONTROL
18	STREET LIGHT PLAN
19	TRENCH SAFETY
20	CURB RAMP DETAILS
21	STORM DRAIN DETAILS
22	LOT GRADING PLAN, SHEET 1 OF 2
23	LOT GRADING PLAN, SHEET 2 OF 2
24	STREET SIGN PLAN

Grant Engineering, Inc.

Engineers Surveyors Planners
3244 Hemphill Street Fort Worth, Texas 76110-4014 817-923-3131

ENGINEERING FIRM REGISTRATION F-4313
SURVEYING FIRM REGISTRATION: 100919-00

COOPER VALLEY, PHASE 5

LEGAL DESCRIPTION

A TRACT OF LAND OUT OF THE MCKINNEY & WILLIAMS SURVEY, ABSTRACT NO. 636, JOHNSON COUNTY, TEXAS, BEING A PORTION OF THAT 24.405 ACRE TRACT CONVEYED TO CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC BY SPECIAL WARRANTY DEED RECORDED IN VOLUME 3584, PAGE 42, DEED RECORDS, JOHNSON COUNTY, TEXAS, AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

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AREA TABLE

TOTAL AREA THIS PHASE 17.722 ACRES
RESIDENTIAL LOTS (69) 12.9279 ACRES
1 DRAINAGE TRACT 0.9829 ACRES
INTERNAL STREET AREA 3.4588 ACRES
R/W DEDICATION FOR STADIUM DRIVE 0.3522 ACRES

LEGEND

B.L. = BUILDING LINE
U.E. = UTILITY EASEMENT
D.E. = DRAINAGE EASEMENT
S.S.E. = SANITARY SEWER EASEMENT
◄ = STREET NAME CHANGE

= TREE CANOPY OR INDIVIDUAL TREE

FRONT BUILDING LINES ARE 25' EXCEPT AS NOTED

15' SIDE STREET BUILDING LINES AT LOTS 25, 36 & 49, BLOCK 8 AND LOTS 1, 14 & 15, BLOCK 11

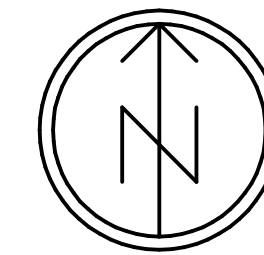
FRONT YARD UTILITY EASEMENTS ARE 10', REAR YARD UTILITY EASEMENTS ARE 7.5' EACH SIDE OF LOT LINE

LINE TABLE

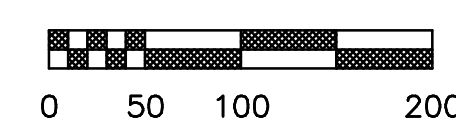
LINE	BEARING	LENGTH
L1	N 84°03'21" E	130.68
L2	N 00°08'31" W	33.95
L3	N 81°43'55" E	166.87
L4	N 15°22'00" W	2.20
L5	N 89°30'11" E	120.36
L6	N 15°22'00" W	78.38
L7	N 84°17'36" E	303.93
L8		
L9		
L10		
L11		
L12		
L13	S 21°22'00" E	2.88
L14	S 31°36'36" E	29.03
L15	S 30°18'59" W	29.28
L16	S 45°29'49" E	14.14
L17	S 44°30'11" W	14.14
L18	S 45°28'29" E	14.14
L19	S 44°31'31" W	25.00
L20	S 06°30'11" W	134.86
L21	S 89°30'11" W	56.60
L22	S 45°29'49" E	14.14
L23	S 44°30'11" W	14.14
L24	S 89°30'11" W	21.60
L25	S 00°29'49" E	20.39
L26	S 22°45'11" E	37.53

CURVE DATA

CURVE	RADIUS	DELTA	LENGTH
C1	625.00	01°58'09"	21.12
C2			
C3			
C4	286.79	20°52'11"	104.46
C5	600.00	01°42'00"	17.80
C6	575.00	03°35'00"	35.98
C7	600.00	03°35'00"	37.52
C8	566.50	01°42'00"	16.81
C9	600.00	06°57'19"	72.84
C10	600.00	07°00'00"	73.30
C11	1225.60	04°15'47"	91.19
C12	2451.25	04°39'05"	199.00
C13	600.00	13°08'59"	137.70



SCALE: 1" = 100'



OWNER:

CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC
DAN THOMAS, PRESIDENT
6029 FOREST HIGHLANDS DRIVE
FORT WORTH, TEXAS 76132
817-294-3834 VOICE
817-294-4270 FAX
dan@danthomashomes.com

ENGINEER & SURVEYOR:

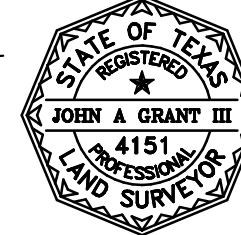
GRANT ENGINEERING, INC.
3244 HEMPHILL STREET
FORT WORTH, TEXAS 76110
817-923-3131 VOICE
817-923-4141 FAX
jagrnt3@aol.com

SURVEYOR'S CERTIFICATE

I, JOHN A. GRANT, III, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND, AND THAT THE CORNER MONUMENTS SHOWN HEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH THE SUBDIVISION REGULATIONS OF THE CITY OF JOSHUA, TEXAS.

Dec. 4, 2015

JOHN A. GRANT, III
REGISTERED PROFESSIONAL
LAND SURVEYOR 4151



CITY OF JOSHUA APPROVAL

REVIEWED FOR PRELIMINARY APPROVAL:

PLANNING & ZONING COMMISSION, CHAIRPERSON DATE

ATTEST:

CITY SECRETARY DATE

APPROVED FOR PREPARATION OF PRELIMINARY PLAT:

MAYOR, CITY OF JOSHUA DATE

ATTEST:

CITY SECRETARY DATE

SUB-DIVIDER'S STATEMENT

THE DEVELOPER WILL COMPLY WITH THE CITY REQUIREMENTS IN THE PROPOSED SUBDIVISION AND ALL SUCH PROPOSALS SHALL CONFORM TO OR EXCEED THE STANDARDS FOR SUCH IMPROVEMENTS PRESCRIBED BY THE CITY.

EXECUTED THIS _____ DAY OF _____, 2018.

DAN THOMAS, PRESIDENT
CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC

GENERAL PLAT NOTES:

1. THIS PROPERTY IS LOCATED WITHIN THE CITY LIMITS OF JOSHUA, JOHNSON COUNTY, TEXAS.
2. PROVISIONS SHALL BE MADE FOR DRAINAGE EASEMENTS AND STRUCTURES, AND ALL DRAINS, DRAINAGE STRUCTURES AND APPURTENANCES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. DRAINAGE DATA AND CALCULATIONS SHALL BE PRESENTED TO PUBLIC WORKS WITH THE FINAL PLAT.
3. SEWER AND WATER WILL BE PROVIDED BY JOHNSON COUNTY SPECIAL UTILITIES DISTRICT.
4. THE MINIMUM FRONT YARD SETBACK IS 25 FEET EXCEPT ON LOTS 30 - 34, AND LOTS 44 - 46, BLOCK 8, WHERE IT IS 20 FEET. THE MINIMUM SIDE YARD SETBACK ALONG STREETS IS 15 FEET. THE MINIMUM SIDE YARD SETBACK ALONG INTERIOR LOTS IS 5 FEET. THE MINIMUM REAR YARD SETBACK IS 7.5 FEET.
5. ALL PAVING MATERIALS AND COMPACTION REQUIREMENTS SHALL MEET CITY OF JOSHUA SUBDIVISION RULES AND REGULATIONS.
6. THE PAVED SURFACE OF THE STREETS SHALL BE 30 FEET WIDE (FACE OF CURB TO FACE OF CURB) WITH A 0.5 FEET WIDE CURB ON EACH SIDE.
7. FIRE HYDRANT SPACING SHALL NOT EXCEED 500 FEET ON CENTERS.
8. ALL WATER MAIN FITTINGS ARE TO BE RESTRAINED IN ACCORDANCE WITH JOHNSON COUNTY SPECIAL UTILITY DISTRICT SPECIFICATIONS.
9. A WAIVER OF CLAIM FOR DAMAGES AGAINST THE CITY OCCASIONED BY THE ESTABLISHMENT OF GRADES OR THE ALTERATION OF THE SURFACE OF ANY PORTION OF EXISTING STREETS AND ALLEYS TO CONFORM TO THE GRADES ESTABLISHED IN THIS SUBDIVISION.
10. NO PART OF THE SUBJECT PROPERTY LIES WITHIN THE 100-YEAR FLOODPLAIN ACCORDING TO THE FEMA MAP DESIGNATED: ZONE X, COMMUNITY 480682, PANEL 0160-U, EFFECTIVE DATE 12-04-12.
11. CONTOURS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, AND GENERALLY ARE ON TWO FEET INTERVALS.
12. THIS PLAT DOES NOT ALTER OR REMOVE DEED RESTRICTIONS, IF ANY, ON THIS PROPERTY.
13. THIS PROPERTY MAY BE SUBJECT TO CHARGES RELATED TO IMPACT FEES, AND THE APPLICANT SHOULD CONTACT THE CITY REGARDING ANY APPLICABLE FEES DUE.

*NOTE: PROPOSED LOT 1, BLOCK 11, AND PROPOSED LOT 10, BLOCK 10, DO NOT MEET THE MINIMUM LOT AREA REQUIREMENTS PER THE PLANNED DEVELOPMENT DISTRICT ZONING.

AFTER THE PRELIMINARY PLAT IS APPROVED, IT IS THE INTENTION OF CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC, TO COMBINE SAID LOT 1, BLOCK 11 WITH ADJACENT PORTION OF LOT 1X, BLOCK 13, COOPER VALLEY, PHASE 2-B2, VIA A REPLAT. SAID LOT 10, BLOCK 10, WILL BE COMBINED WITH LOT 10X, BLOCK 10, SAID COOPER VALLEY, PHASE 2-B2.

ZONING:

THIS PROPERTY IS ZONED "PLANNED DEVELOPMENT DISTRICT" AND THIS PRELIMINARY PLAT REPRESENTS ALL OF PHASE 3B, PHASE 5, AND PHASE 6 OF THE APPROVED CONCEPT PLAN PER ORDINANCE NO. 527-2011.

PRELIMINARY PLAT

LOTS 24-49, BLOCK 8; LOTS 10-26, BLOCK 10;
LOTS 1-27, BLOCK 11
COOPER VALLEY, PHASE 5
AN ADDITION TO THE CITY OF JOSHUA
JOHNSON COUNTY, TEXAS

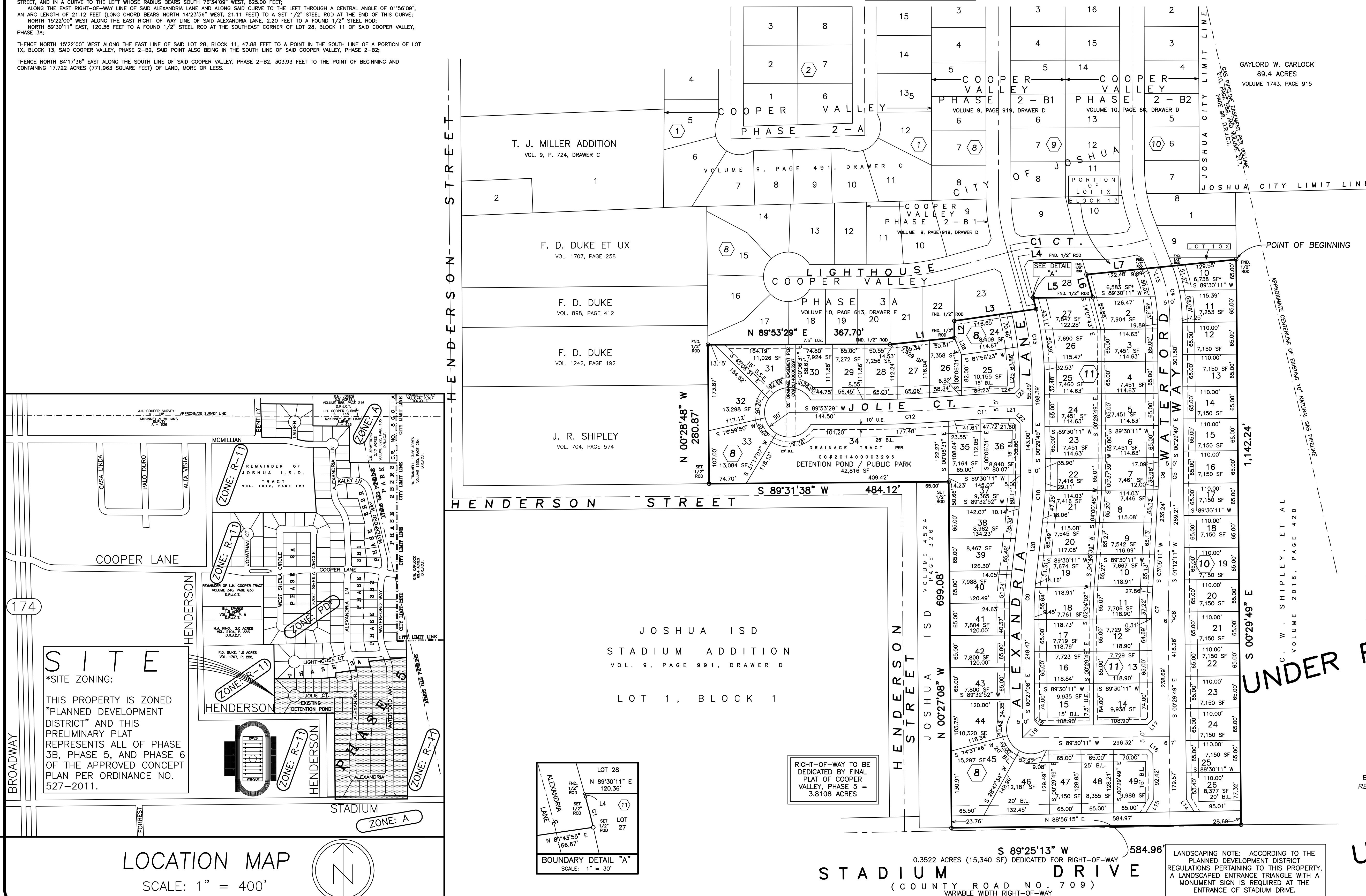
OUT OF THE
MCKINNEY & WILLIAMS SURVEY, ABSTRACT NO. 636
JOHNSON COUNTY, TEXAS

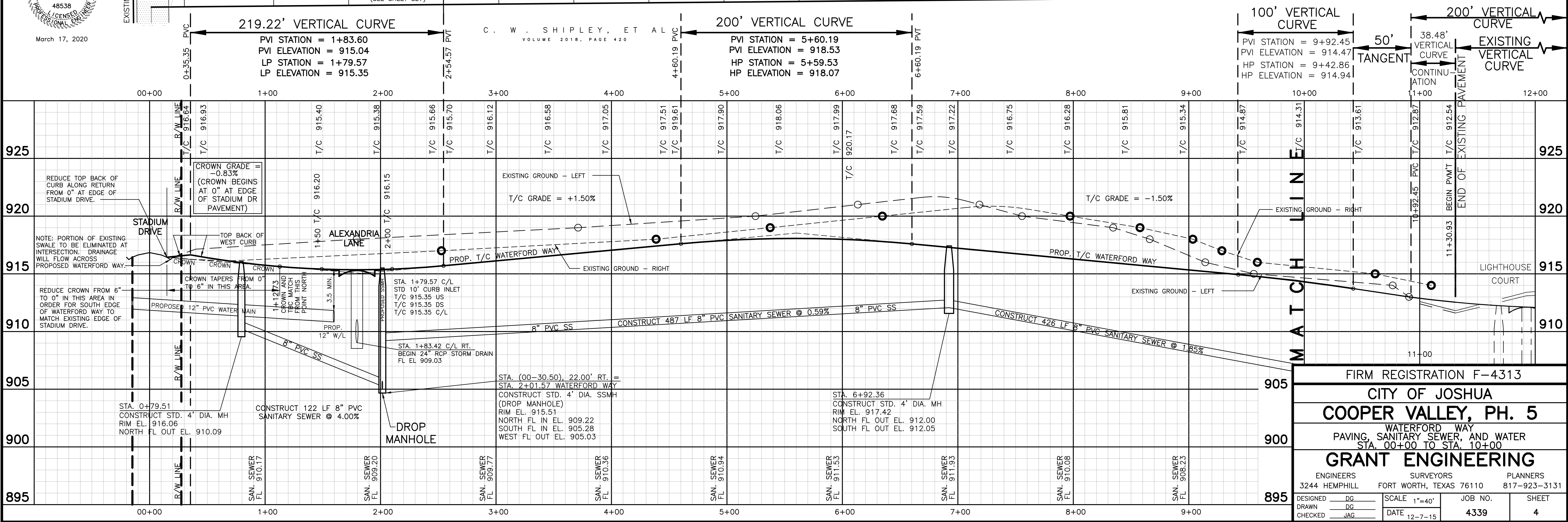
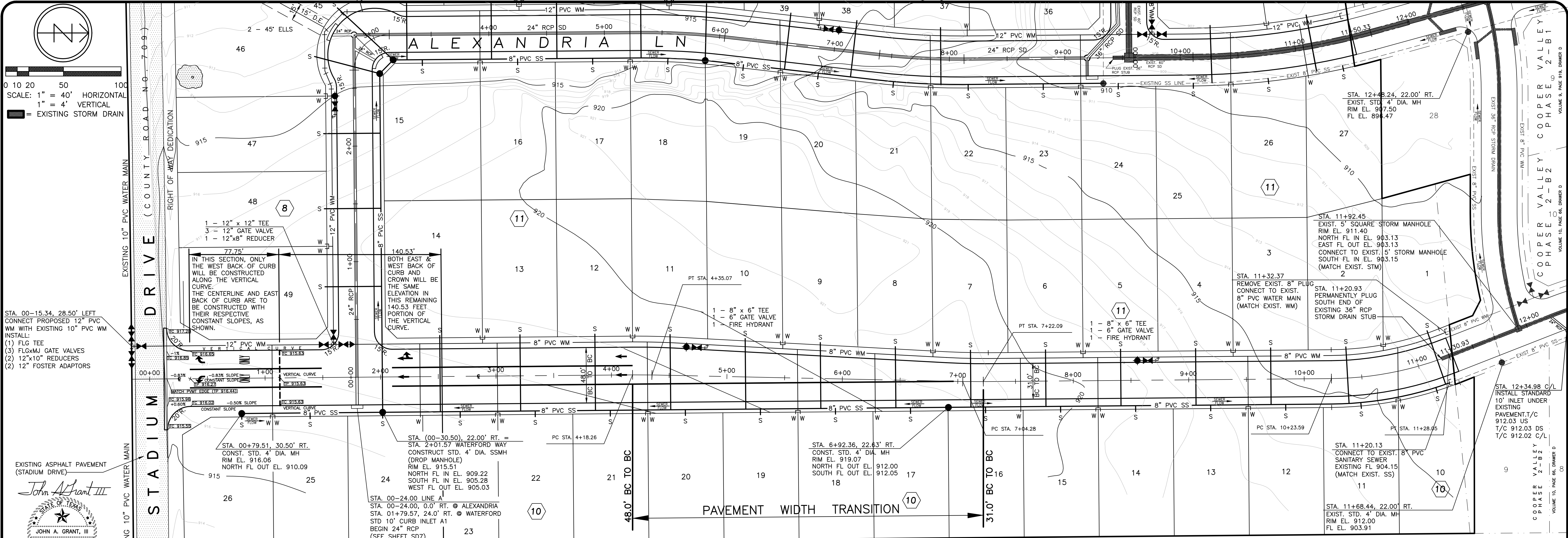
BEING A PORTION OF THAT 24.405 ACRE TRACT CONVEYED TO CROSS TIMBERS REAL ESTATE AND DEVELOPMENT, LLC BY SPECIAL WARRANTY DEED RECORDED IN VOLUME 3584, PAGE 42, DEED RECORDS, JOHNSON COUNTY, TEXAS

JUNE, 2018

Grant Engineering, Inc.

Engineers Surveyors Planners
3244 Hemphill Street Fort Worth, Texas 76110-4014 817-923-3131
Firm No. 100919-00





FIRM REGISTRATION F-4313

CITY OF JOSHUA

COOPER VALLEY, PH. 5

PAVING, SANITARY SEWER, AND WATER

STA. 00+00 TO STA. 10+00

GRANT ENGINEERING

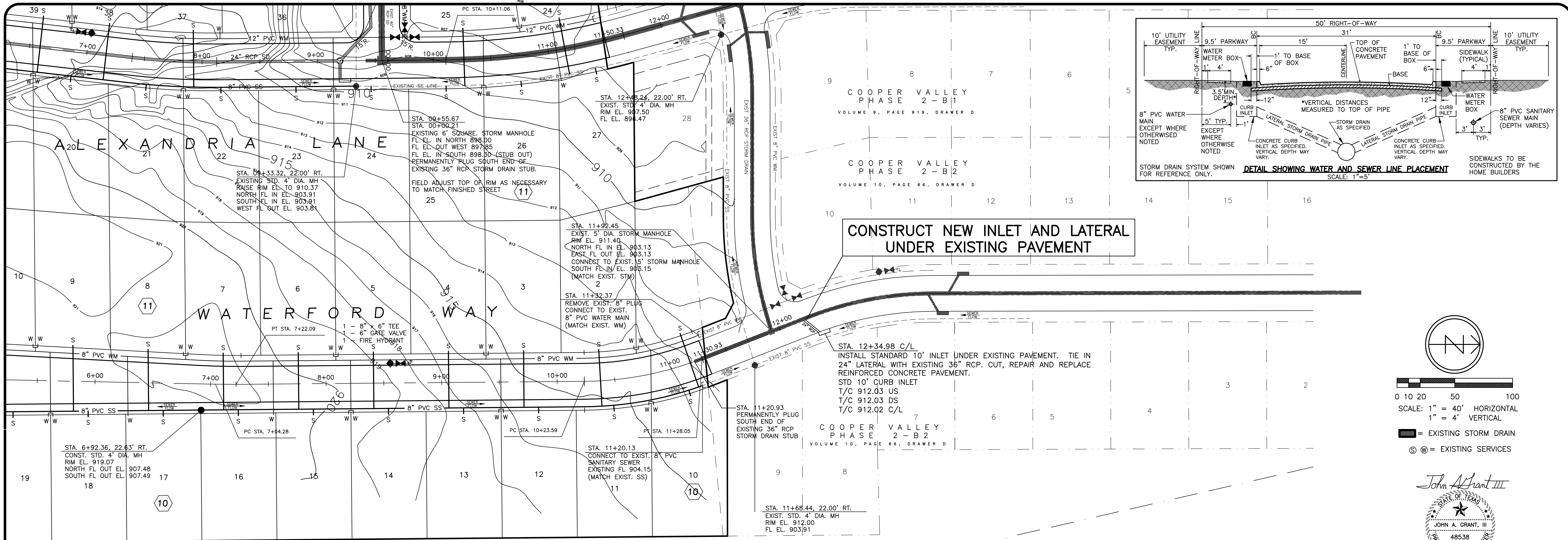
ENGINEERS SURVEYORS PLANNERS

3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

DESIGNED BY DC SCALE 1"=40' JOB NO. SHEET

DRAWN BY DC DATE 12-7-15 4339 4

CHECKED BY JAG

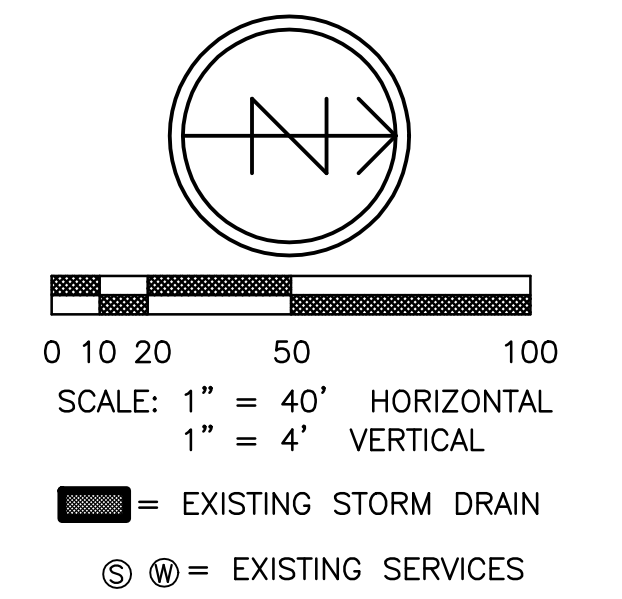


200' VERTICAL CURVE
PVI STATION = 5+60.19
PVI ELEVATION = 918.53
HP STATION = 5+59.53
HP ELEVATION = 918.07

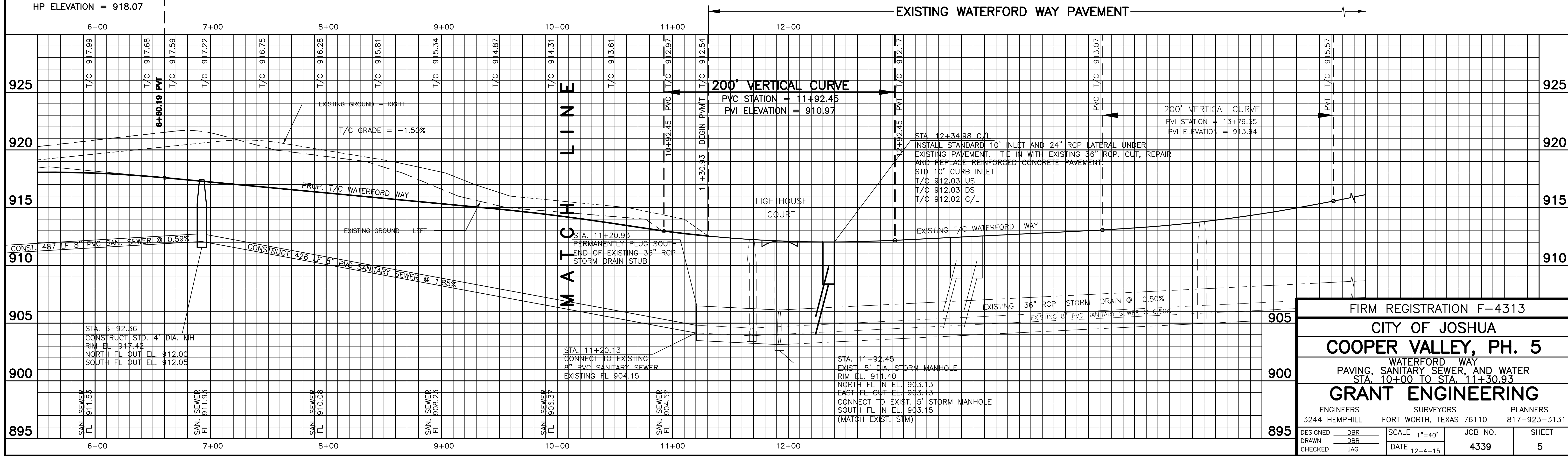
C. W. SHIPLEY, ET AL
VOLUME 2018, PAGE 420

COOPER VALLEY
PHASE 2-B2
VOLUME 10, PAGE 66, DRAWER D

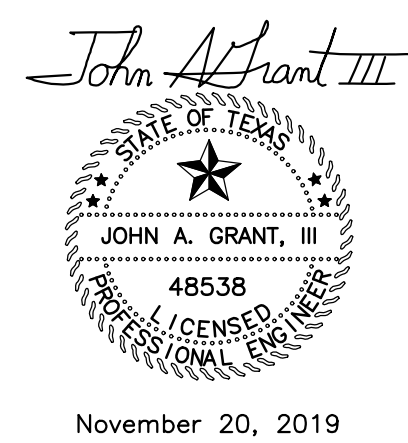
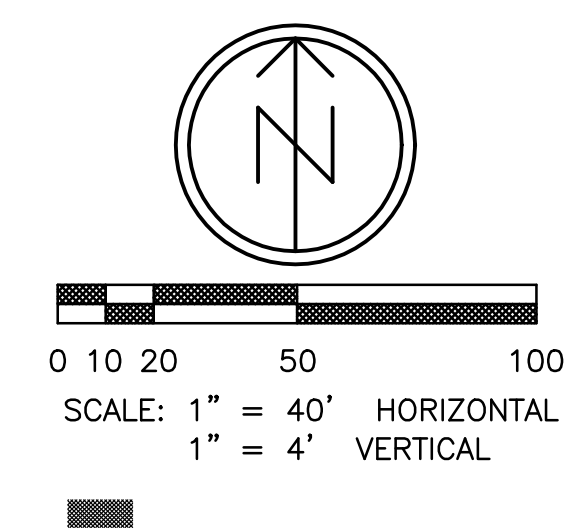
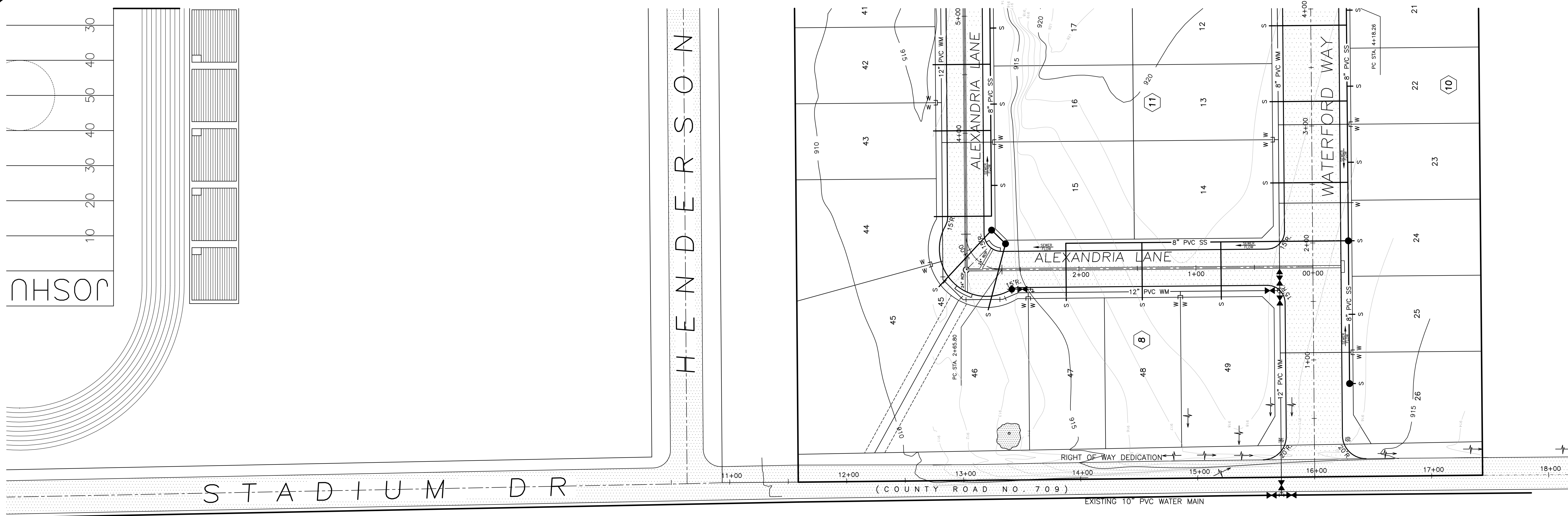
GAYLORD W. CARLOCK
VOLUME 1743, PAGE 915



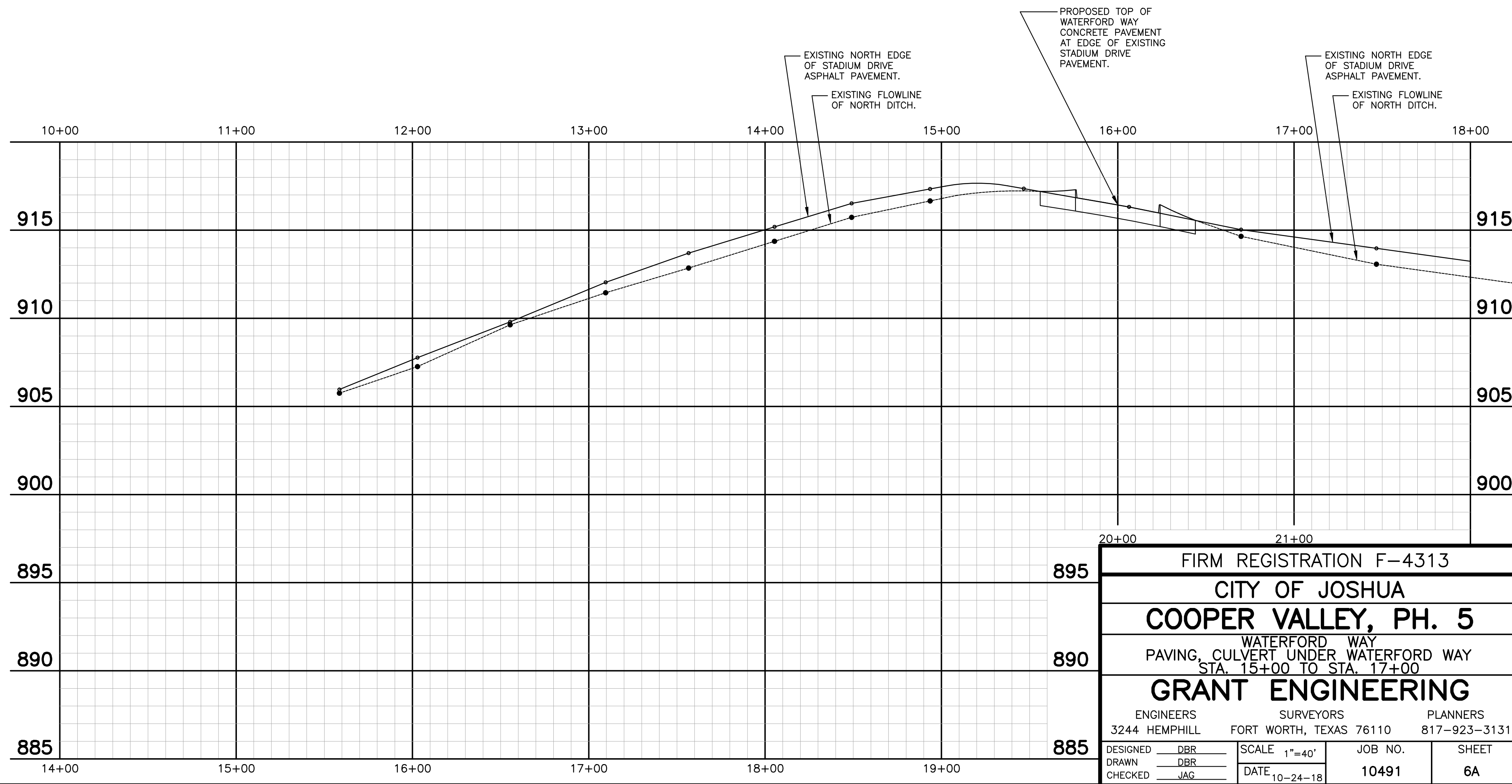
John A. Grant III
STATE OF TEXAS
JOHN A. GRANT, III
48538
LICENSED PROFESSIONAL ENGINEER
October 10, 2019



FIRM REGISTRATION F-4313			
CITY OF JOSHUA			
COOPER VALLEY, PH. 5			
WATERFORD WAY PAVING, SANITARY SEWER, AND WATER STA. 10+00 TO STA. 11+30.93			
GRANT ENGINEERING			
ENGINEERS	SURVEYORS	PLANNERS	
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131	
DESIGNED DBR	SCALE 1"=40'	JOB NO.	SHEET
DRAWN DBR	DATE 12-4-15	4339	5
CHECKED JAG			

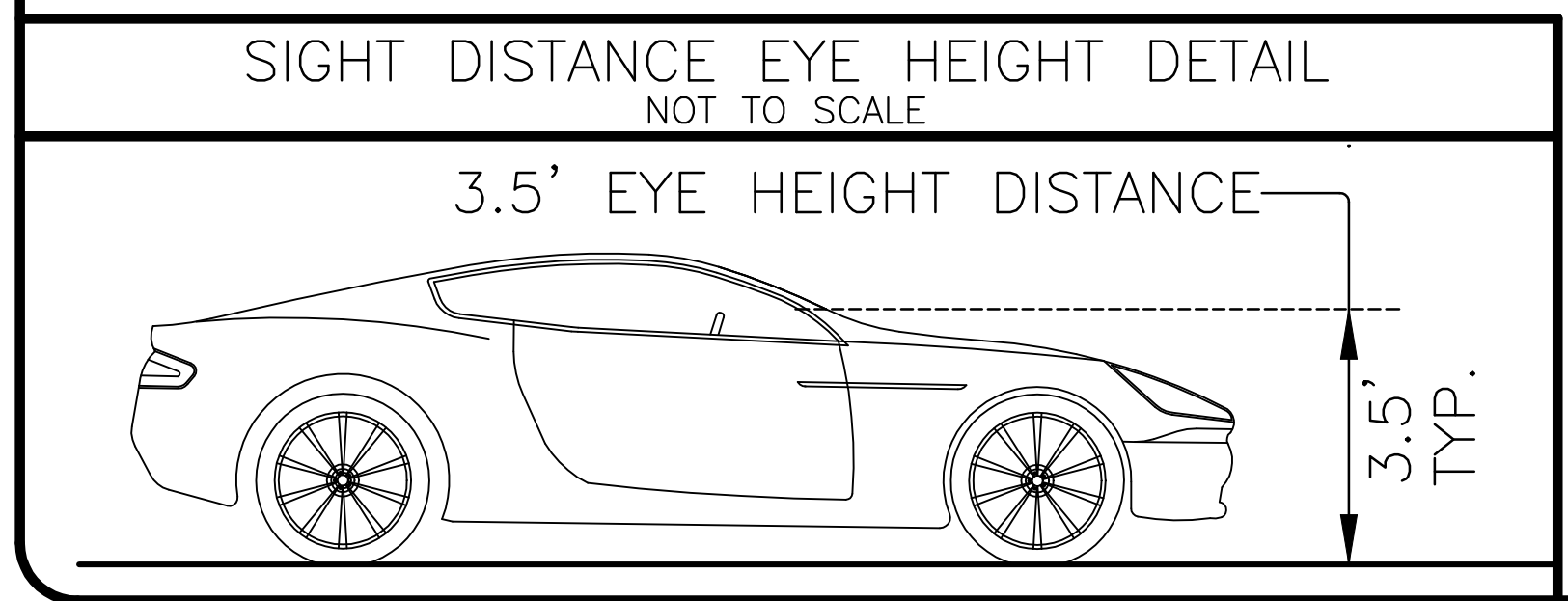
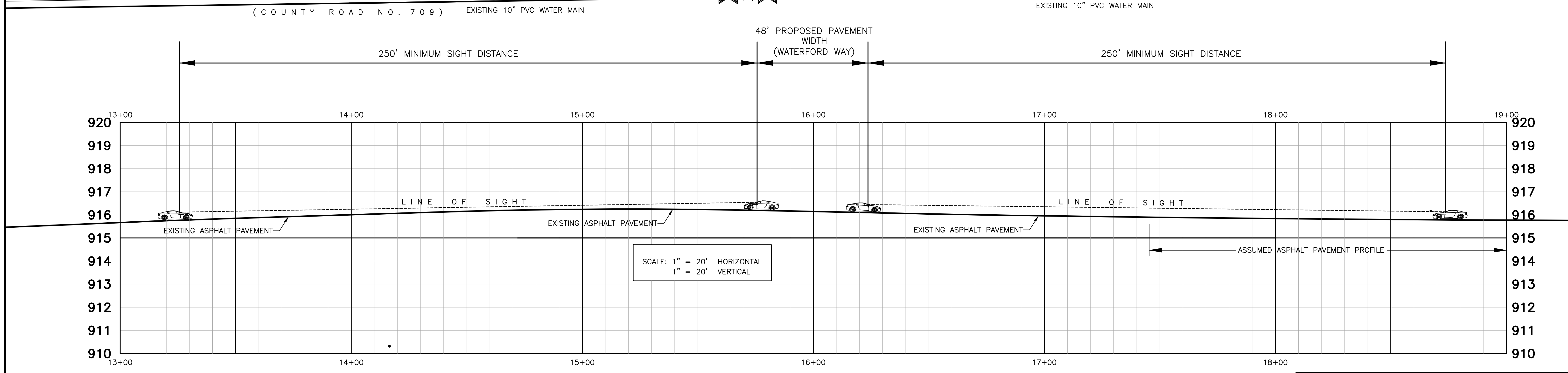
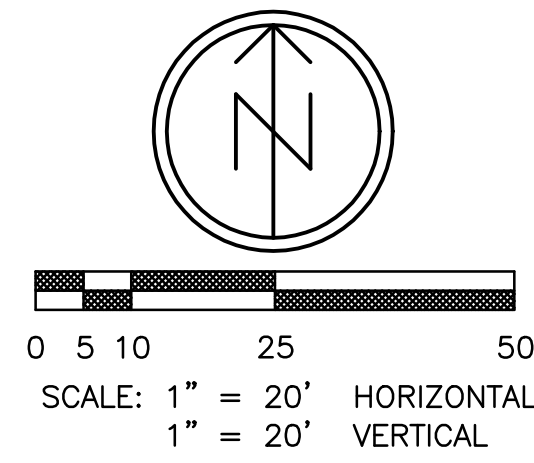
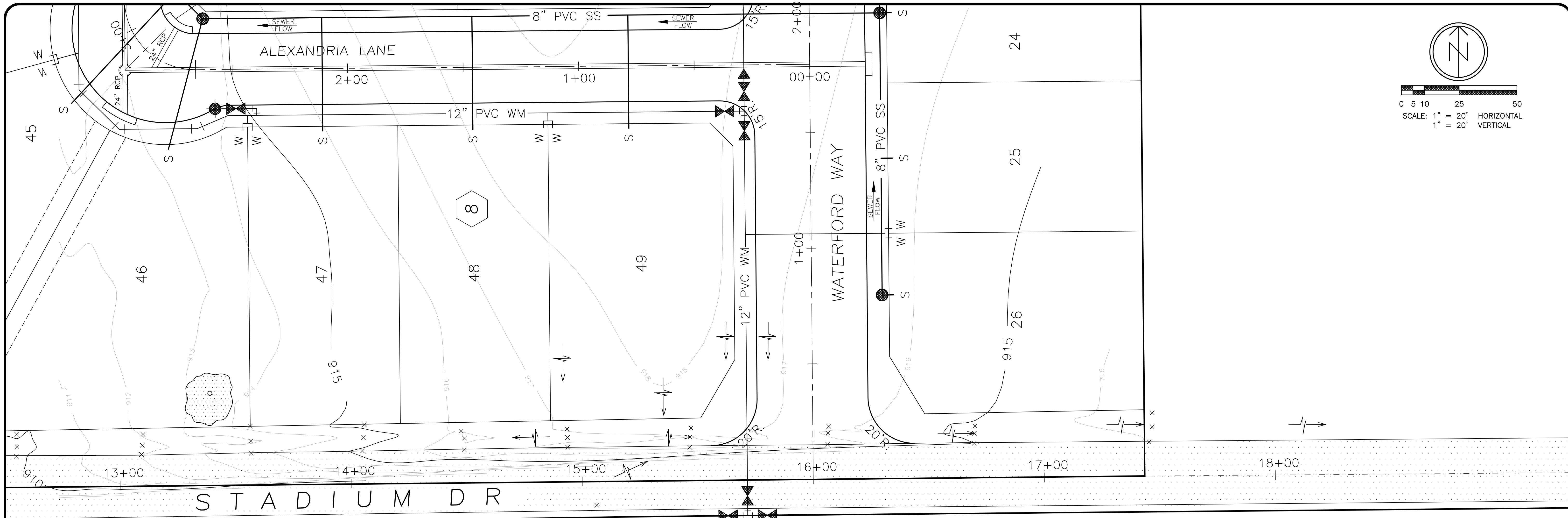


November 20, 2019



FIRM REGISTRATION F-4313			
CITY OF JOSHUA			
COOPER VALLEY, PH. 5			
WATERFORD WAY			
PAVING, CULVERT UNDER WATERFORD WAY			
STA. 15+00 TO STA. 17+00			
GRANT ENGINEERING			
ENGINEERS		SURVEYORS	
3244 HEMPHILL		FORT WORTH, TEXAS 76110	
PLANNERS		817-923-3131	
DESIGNED	DBR	SCALE	1"=40'
DRAWN	DBR	JOB NO.	10491
CHECKED	JAG	DATE	10-24-18
		SHEET	6A

REVISED: 2-13-19; 7-30-19; 10-10-19; 11-20-19



John A. Grant III
STATE OF TEXAS
★
JOHN A. GRANT, III
48538
LICENSED PROFESSIONAL ENGINEER
December 2, 2019

FIRM REGISTRATION F-4313			
CITY OF JOSHUA			
COOPER VALLEY, PH. 5			
SIGHT DISTANCE ALONG STADIUM DRIVE AT WATERFORD WAY INTERSECTION STA. 13+00 TO STA. 19+00			
GRANT ENGINEERING			
ENGINEERS 3244 HEMPHILL	SURVEYORS FORT WORTH, TEXAS 76110	PLANNERS 817-923-3131	
DESIGNED DBR	SCALE 1"=40'	JOB NO.	SHEET
DRAWN DBR	DATE 10-24-18	10491	6-B
CHECKED JAG			



DITCH CAPACITY

$Q = \frac{1.486}{n} AR^{2/3} s$

$n = 0.025$

$A = 6.25$

$P = 10.31$

$R = 0.61$

$R^{2/3} = 0.72$

$AR^{2/3} = 4.48$

$s = 1.34\%$ (0.0134)

$s^{1/2} = 0.12$

$Q = \frac{1.486}{0.025} \times 4.48 \times 0.12$

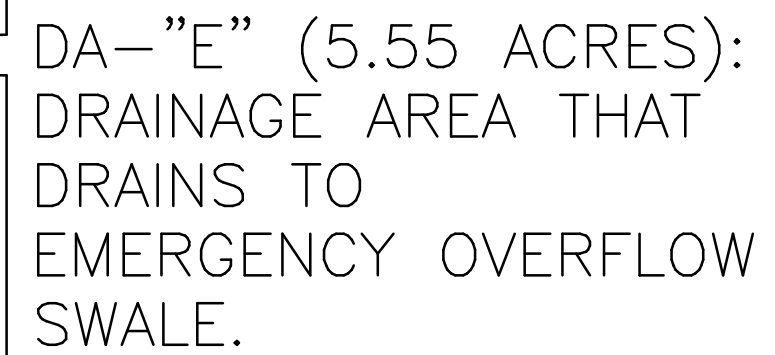
$Q_{100} = 31.95 \text{ cfs}$

$Q_{100}(\text{required}) = 30.44 \text{ cfs}$

NOTE: NO SOLID FENCE OR ANY OTHER STRUCTURE THAT BLOCKS THE FLOW OF WATER IS TO BE CONSTRUCTED WITHIN THE DRAINAGE EASEMENT. WOOD STOCKADE FENCING IS ALLOWED AS LONG AS STORMWATER CAN PASS THROUGH IT.



0.6	5.38	10	5.71	7.50	9.14	18.42	24.19	29.49
-----	------	----	------	------	------	-------	-------	-------



DRAINAGE AREA CALCULATIONS (POST DEVELOPMENT)

DRAINAGE AREA	C	AREA acres	t _c minutes	i ₅ in/hr	i ₂₅ in/hr	i ₁₀₀ in/hr	Q ₅ cfs	Q ₂₅ cfs	Q ₁₀₀ cfs ¹⁰⁰
DA-1*	0.6	5.55	10	5.71	7.50	9.14	19.01	24.98	30.44

John A. Grant III

STATE OF TEXAS
★
JOHN A. GRANT, III
48538
LICENSED PROFESSIONAL ENGINEER

December 6, 2019

CITY OF JOSHUA
COOPER VALLEY
PHASE 5

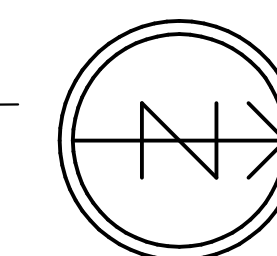
EMERGENCY OVERFLOW SWALE
LOTS 45 & 46, BLK 8

GRANT ENGINEERING, INC.

ENGINEERS	SURVEYORS	PLANNERS
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131

DESIGNED <u>DBR</u>	SCALE <u>AS NOTED</u>	JOB NO. 4339-PH 5	SHEET 7B
DRAWN <u>DBR</u>	DATE <u>10-09-19</u>		
CHECKED <u>JAG</u>			

REVISÉ: 11-22-19; 12-6-19

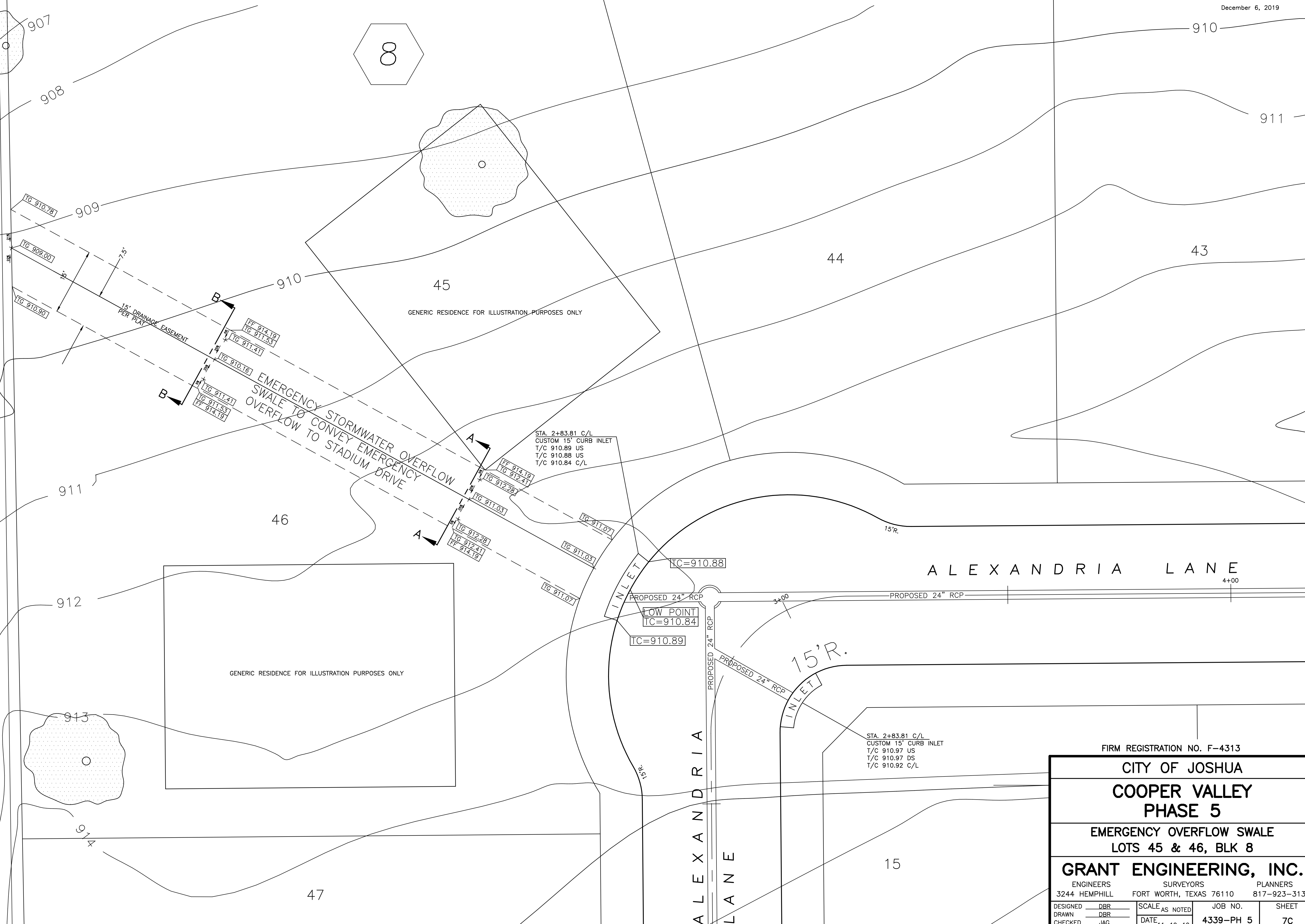


SCALE: 1" = 10'



December 6, 2019

STADIUM DRIVE
(COUNTY ROAD NO. 709)
RIGHT OF WAY DEDICATION



FIRM REGISTRATION NO. F-4313

CITY OF JOSHUA
COOPER VALLEY
PHASE 5

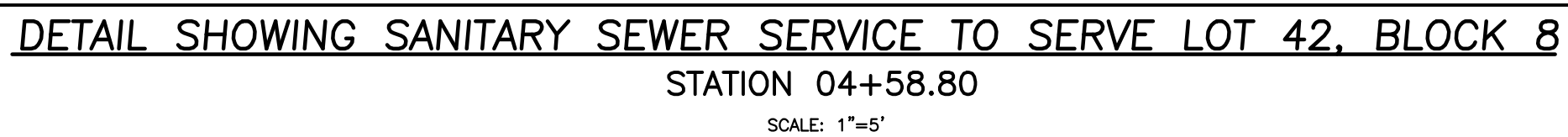
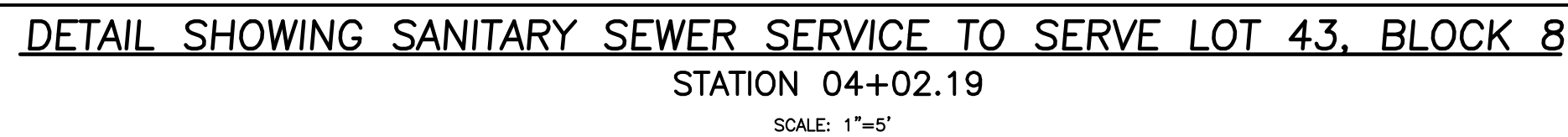
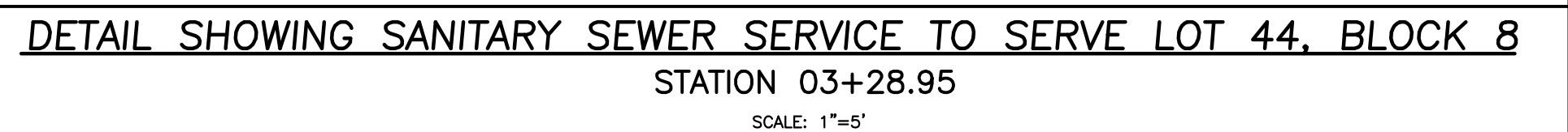
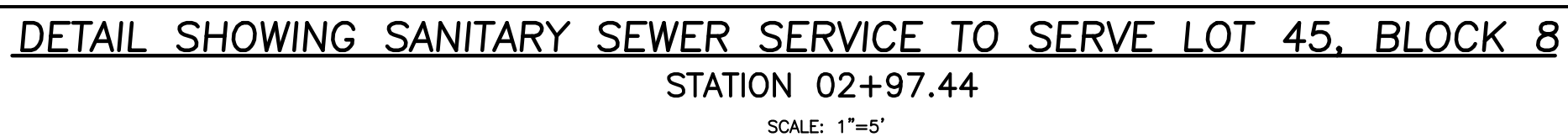
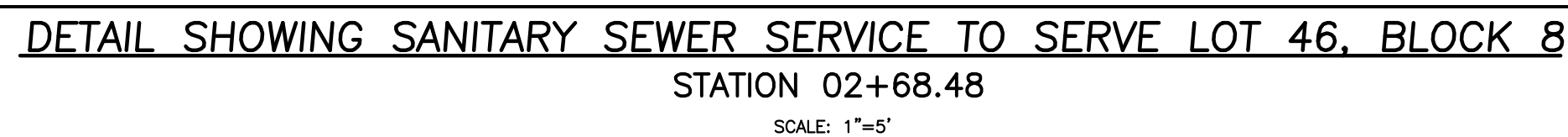
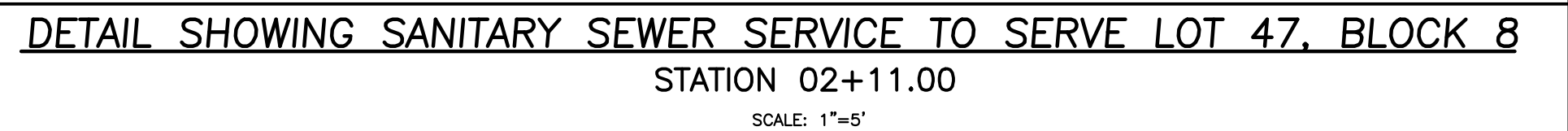
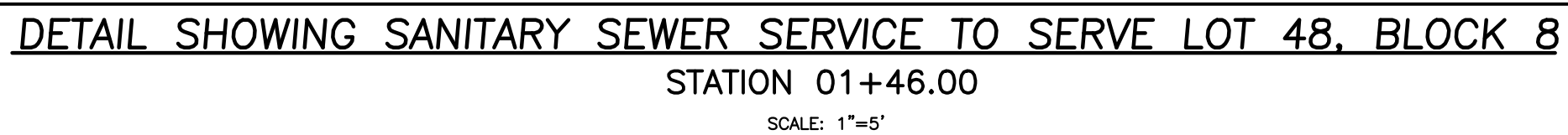
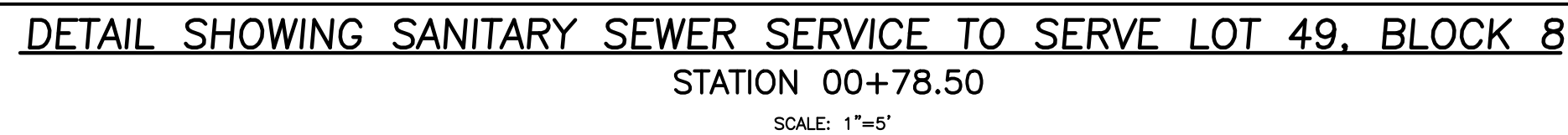
EMERGENCY OVERFLOW SWALE
LOTS 45 & 46, BLK 8

GRANT ENGINEERING, INC.

ENGINEERS	SURVEYORS	PLANNERS
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131

DESIGNED	DBR	SCALE	AS NOTED	JOB NO.	SHEET
DRAWN	DBR	DATE	11-19-19	4339-PH 5	7C
CHECKED	JAG				

REVISED: 12-2-19



CAUTION--NOTICE TO CONTRACTOR

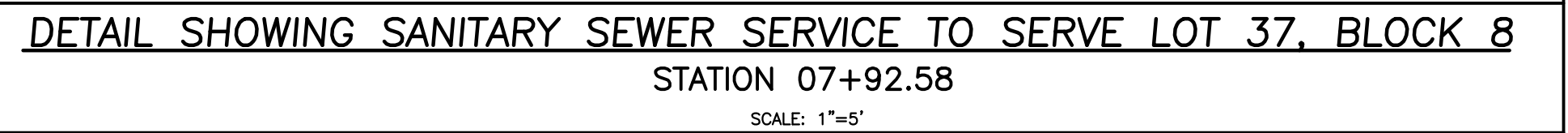
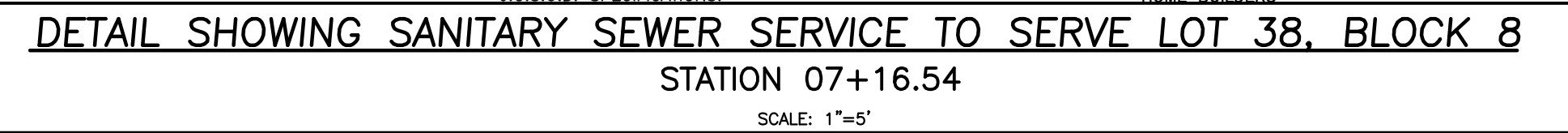
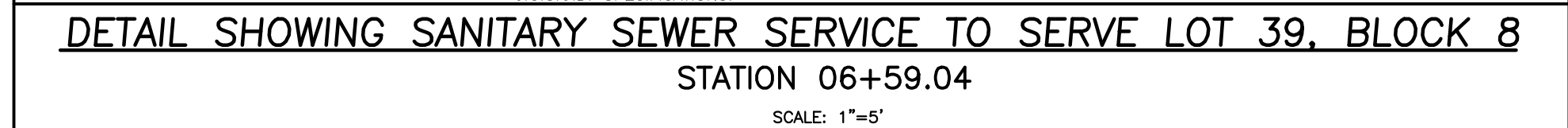
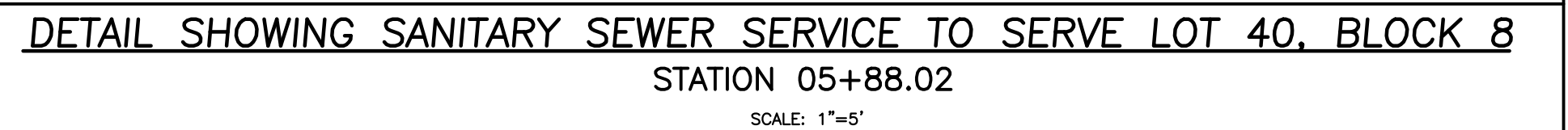
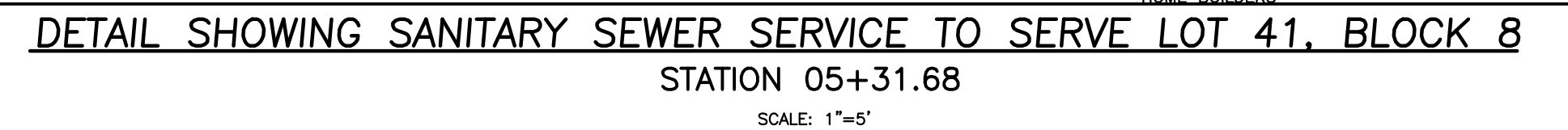
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETELY CORRECT. CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES TO AVOID ANY CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

WARNING TO CONTRACTOR:

CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. GRANT ENGINEERING IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

DESIGNED <u>DBR</u>	SCALE AS NOTED	JOB NO. 4339	SHEET 9
DRAWN <u>DBR</u>			
CHECKED <u>JAG</u>			

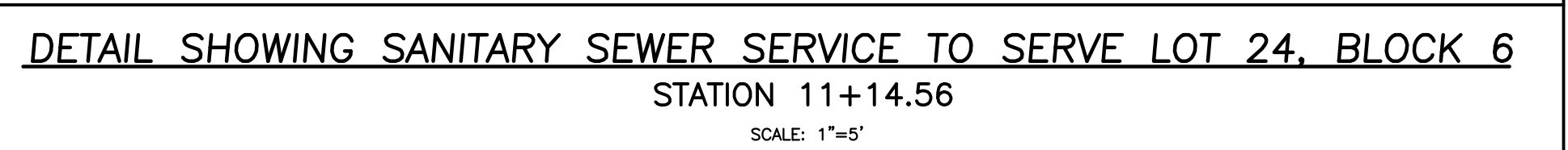
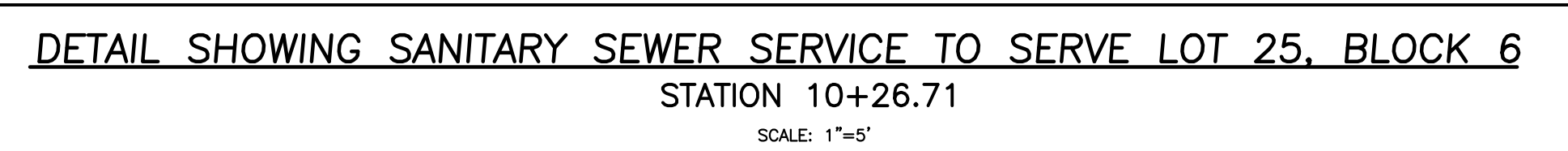
REVISÉ: 3-17-20



CAUTION--NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

WARNING TO CONTRACTOR:
CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY
LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION
ACTIVITY. GRANT ENGINEERING IS NOT RESPONSIBLE FOR
KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT
LOCATIONS OF UTILITIES ON DRAWINGS.



FIRM REGISTRATION F-4313

CITY OF JOSHUA

**COOPER VALLEY
PHASE 5**

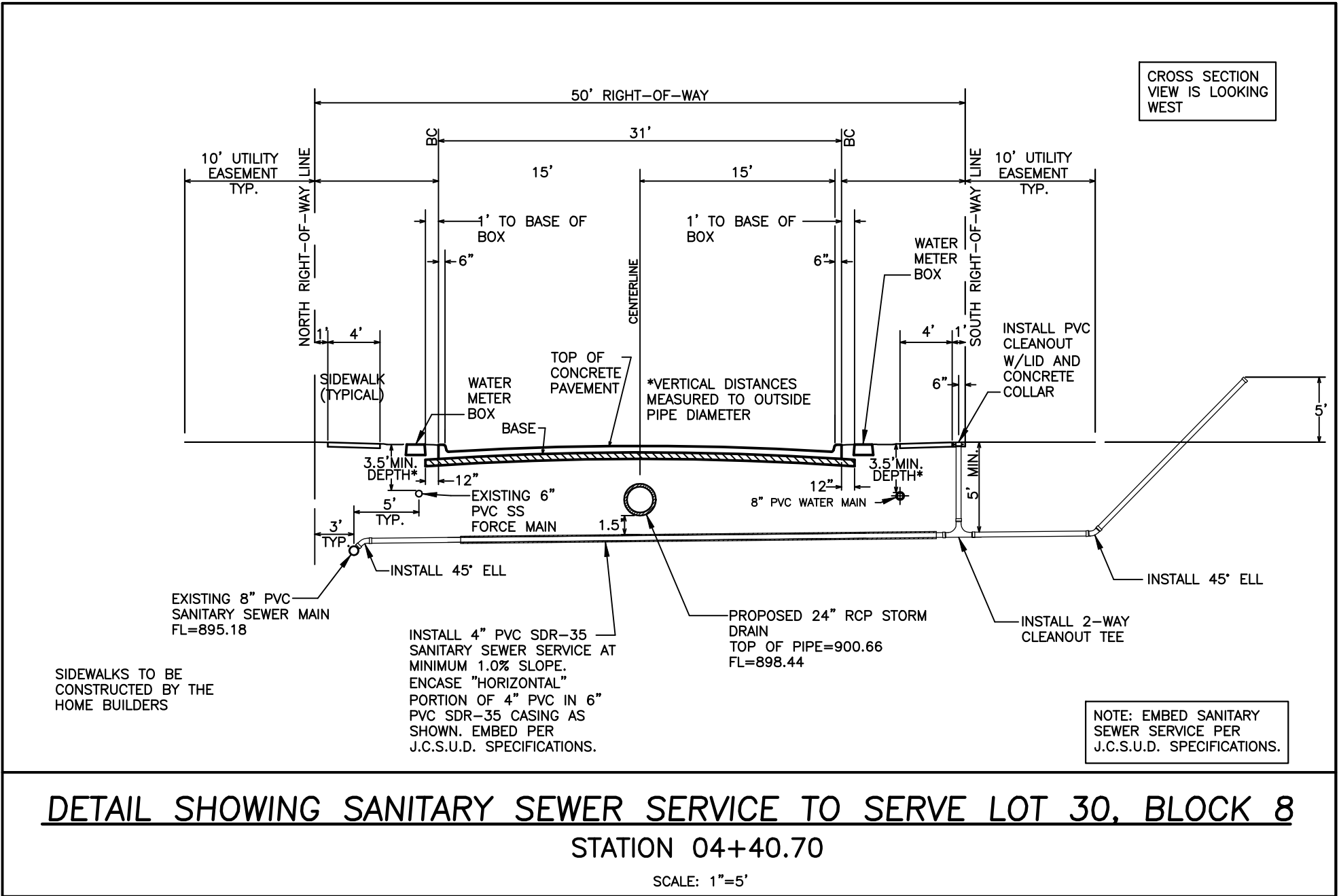
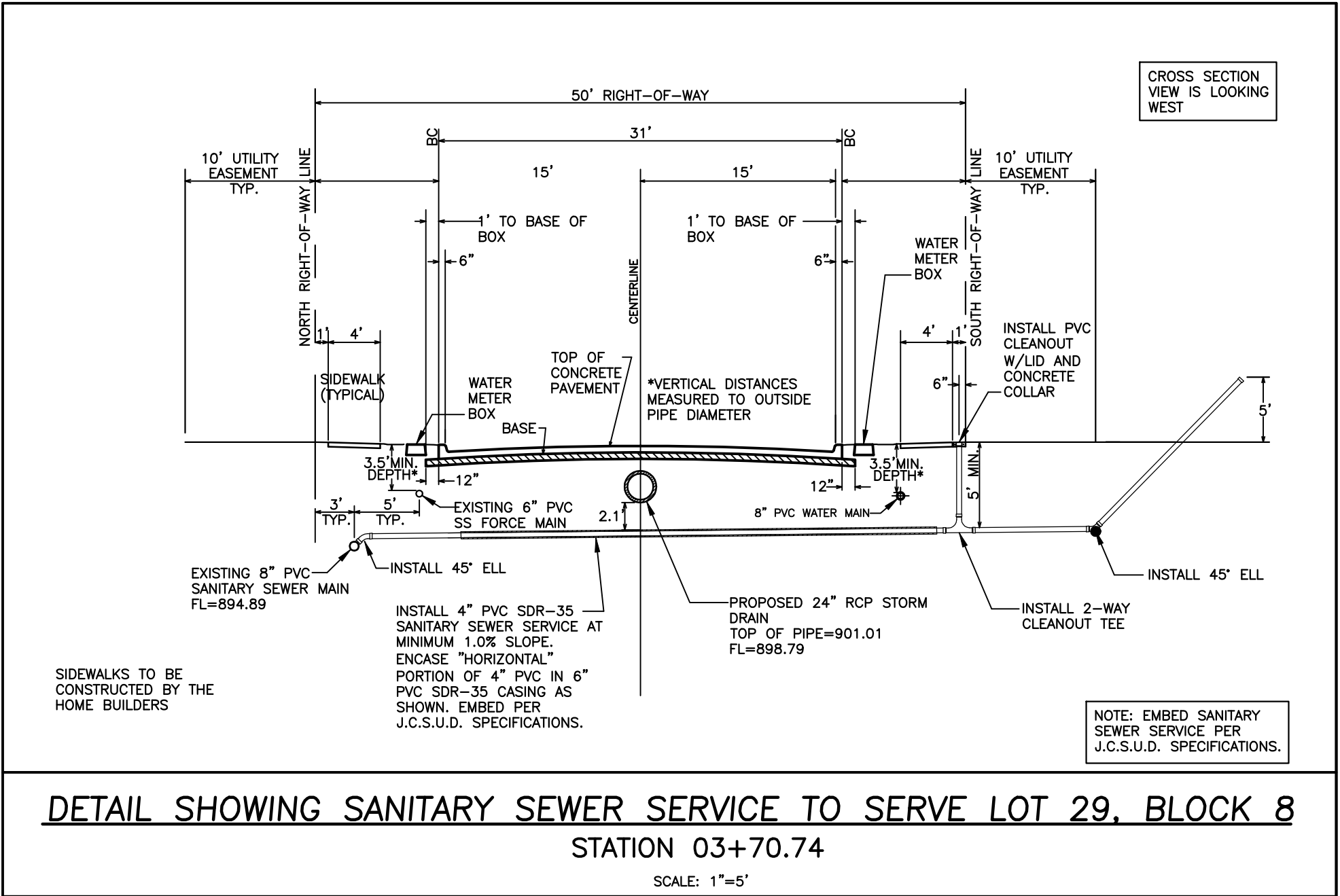
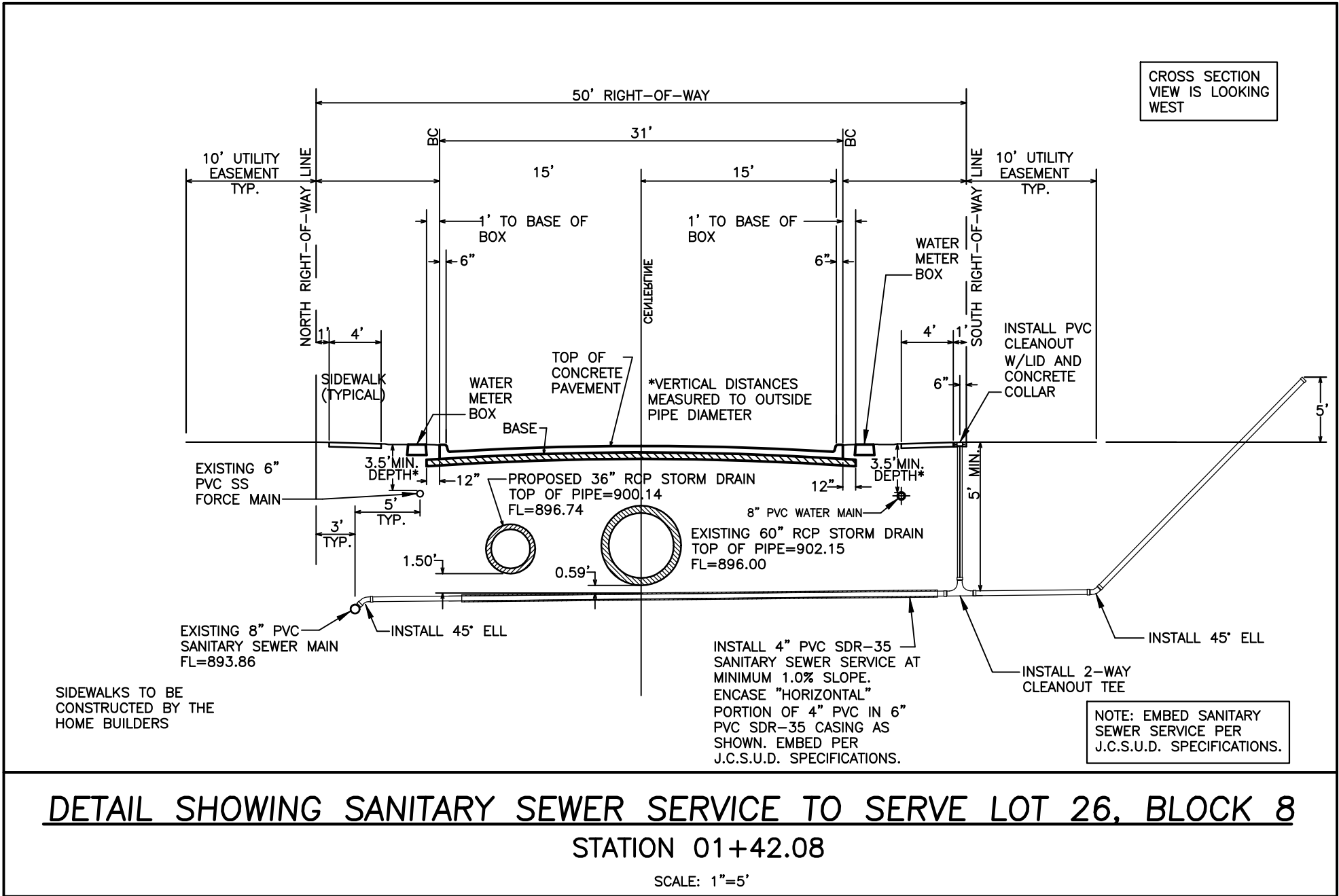
**ALEXANDRIA LANE
SANITARY SEWER SERVICE
CROSSING STORM DRAIN**

GRANT ENGINEERING

ENGINEERS	SURVEYORS	PLANNERS
HEMPHILL	FORT WORTH, TEXAS	817-923-31
ED DBR	SCALE AS NOTED	JOB NO.
ED DBR	DATE	12-2-19
ED JAG	4339	10

REVISÉD: 3-17-20

JOLIE COURT



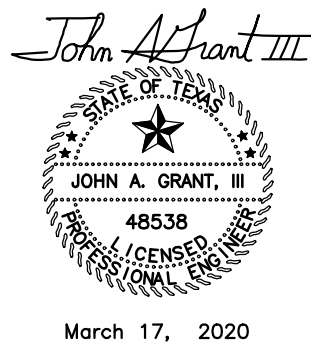
- BENCH MARKS
1. NORTH RIM OF SANITARY SEWER MANHOLE AT THE INTERSECTION OF JOHNATHAN COURT AND COOPER LANE
ELEVATION: 921.44
 2. TOP OF GAS RISER AT LOTS 12 & 13, BLOCK 6
ELEVATION: 918.36

CAUTION-NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

WARNING TO CONTRACTOR:

CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. GRANT ENGINEERING IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.



FIRM REGISTRATION F-4313			
CITY OF JOSHUA			
COOPER VALLEY			
PHASE 5			
JOLIE COURT			
SANITARY SEWER SERVICE			
CROSSING STORM DRAIN			
GRANT ENGINEERING			
ENGINEERS	SURVEYORS	PLANNERS	
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131	
DESIGNED DBR	SCALE AS NOTED	JOB NO.	SHEET
DRAWN DBR	DATE	4339	11
CHECKED JAG			

REVISED: 3-17-20

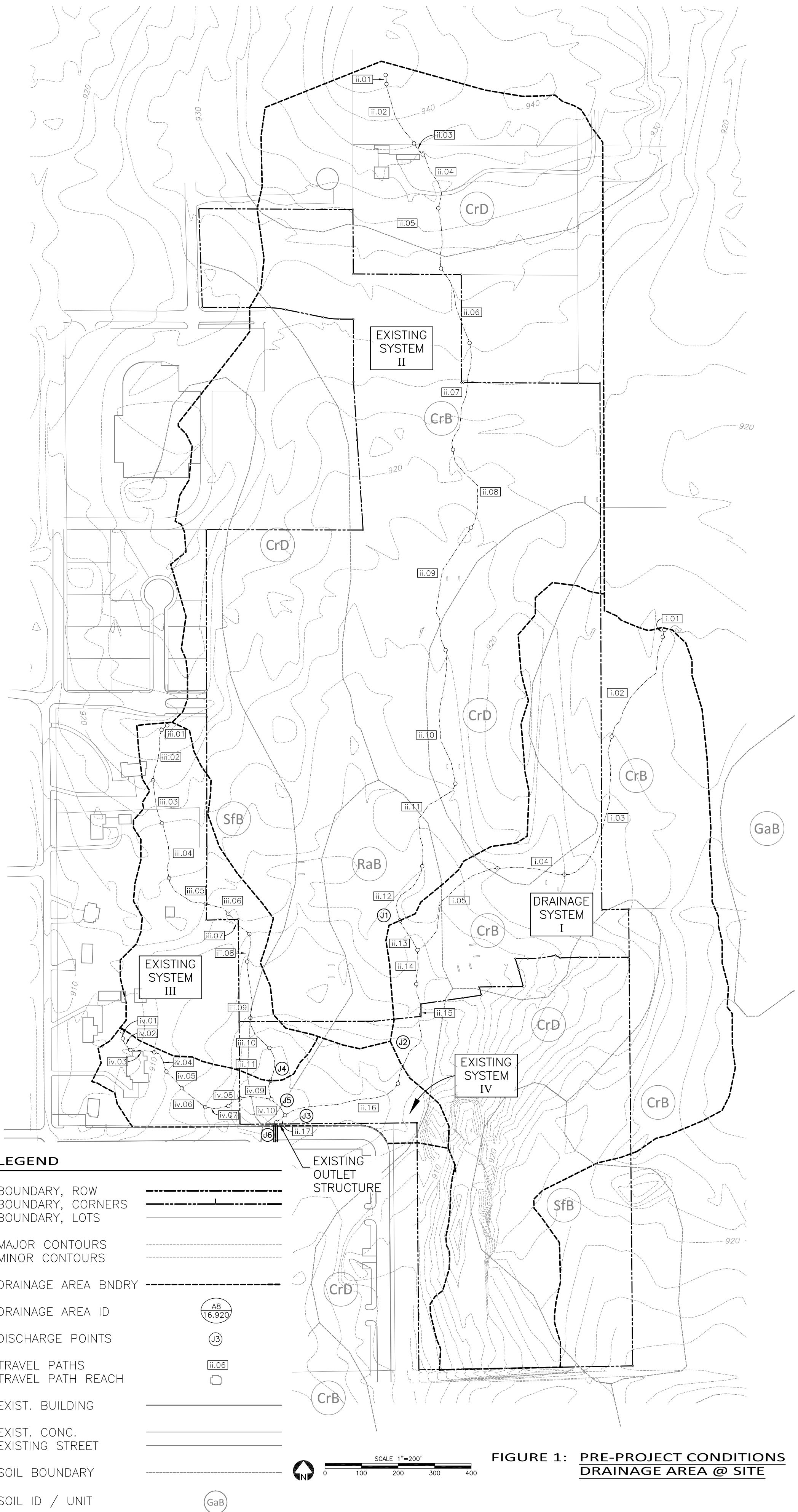


TABLE 1: DRAINAGE SYSTEM I: DETERMINATION OF TIME OF CONCENTRATION

ID	REACH DESCRIPTION	LENGTH	SLOPE	PIPE DIAMETER	MANNING'S n-VALUE	VELOCITY	TRAVEL TIME	Tc
i.01	Overland Flow	15	0.0050	n/a	0.400	n/a	n/a	8.00 min
i.02	Shallow, Un-paved	318	0.0100	n/a	n/a	1.61	197.1 sec	3.29 min
i.03	Channelized	426	0.0140	n/a	0.030	1.63	261.4 sec	4.36 min
i.04	Channelized	181	0.0110	n/a	0.030	3.00	60.4 sec	1.01 min
i.05	Channelized	335	0.0184	n/a	0.030	3.49	96.0 sec	1.60 min
i.06	Channelized	117	0.0100	n/a	0.030	2.57	45.5 sec	0.76 min
ii.14	Channelized	291	0.0275	n/a	0.030	10.09	28.8 sec	0.48 min
ii.15	Channelized	325	0.0100	n/a	0.030	6.08	53.4 sec	0.89 min
ii.16	Channelized	45	0.0100	n/a	0.030	6.08	7.4 sec	0.12 min
Σ Length =		1,293					Tc = 20.50 min Use: 20.50 min TL = 13.74 min	

TABLE 2: DRAINAGE SYSTEM II: DETERMINATION OF TIME OF CONCENTRATION

ID	REACH DESCRIPTION	LENGTH	SLOPE	PIPE DIAMETER	MANNING'S n-VALUE	VELOCITY	TRAVEL TIME	Tc
ii.01	Overland Flow	15	0.0080	n/a	0.400	n/a	n/a	6.63 min
ii.02	Shallow, Un-paved	182	0.0250	n/a	n/a	2.55	71.4 sec	1.19 min
ii.03	Channelized	34	0.0589	n/a	0.030	3.56	9.6 sec	0.16 min
ii.04	Channelized	162	0.0123	n/a	0.030	1.69	95.7 sec	1.59 min
ii.05	Shallow, Un-paved	145	0.0207	n/a	n/a	2.32	62.5 sec	1.04 min
ii.06	Channelized	216	0.0139	n/a	0.030	3.36	64.4 sec	1.07 min
ii.07	Channelized	298	0.0213	n/a	0.030	3.75	79.4 sec	1.32 min
ii.08	Channelized	237	0.0084	n/a	0.030	2.92	81.1 sec	1.35 min
ii.09	Channelized	358	0.0065	n/a	0.030	2.75	130.3 sec	2.17 min
ii.10	Channelized	368	0.0055	n/a	0.030	2.67	137.7 sec	2.29 min
ii.11	Channelized	270	0.0148	n/a	0.030	3.88	69.6 sec	1.16 min
ii.12	Channelized	172	0.0100	n/a	0.030	3.77	45.6 sec	0.76 min
Σ Length =		2,487					Tc = 20.75 min Use: 20.75 min TL = 13.90 min	

TABLE 3: DRAINAGE SYSTEM III: DETERMINATION OF TIME OF CONCENTRATION

ID	REACH DESCRIPTION	LENGTH	SLOPE	PIPE DIAMETER	MANNING'S n-VALUE	VELOCITY	TRAVEL TIME	Tc
iii.01	Overland Flow	15	0.0080	n/a	0.400	n/a	n/a	6.63 min
iii.02	Shallow, Un-paved	140	0.0260	n/a	n/a	2.58	54.40 sec	0.90 min
iii.03	Channelized	116	0.0344	n/a	0.030	2.93	39.5 sec	0.66 min
iii.04	Shallow, Un-paved	149	0.0134	n/a	n/a	1.87	79.8 sec	1.33 min
iii.05	Shallow, Un-paved	128	0.0156	n/a	n/a	2.02	63.5 sec	1.06 min
iii.06	Channelized	65	0.0308	n/a	0.030	2.72	23.9 sec	0.40 min
iii.07	Channelized	75	0.0267	n/a	0.030	4.01	18.7 sec	0.31 min
iii.08	Channelized	77	0.0278	n/a	0.030	4.10	18.8 sec	0.31 min
iii.09	Channelized	148	0.0122	n/a	0.030	3.52	42.0 sec	0.70 min
iii.10	Channelized	97	0.0412	n/a	0.030	6.76	14.4 sec	0.24 min
iii.11	Channelized	90	0.0278	n/a	0.030	6.31	14.3 sec	0.24 min
Σ Length =		1,122					Tc = 12.77 min Use: 12.77 min TL = 8.56 min	

TABLE 4: DRAINAGE SYSTEM IV: DETERMINATION OF TIME OF CONCENTRATION

ID	REACH DESCRIPTION	LENGTH	SLOPE	PIPE DIAMETER	MANNING'S n-VALUE	VELOCITY	TRAVEL TIME	Tc
iv.01	Overland Flow	15	0.0060	n/a	0.400	n/a	n/a	7.44 min
iv.02	Shallow, Un-paved	40	0.0070	n/a	n/a	1.35	29.6 sec	0.49 min
iv.03	Channelized	60	0.0333	n/a	0.030	1.54	39.1 sec	0.65 min
iv.04	Shallow, Un-paved	62	0.0323	n/a	n/a	2.90	21.4 sec	0.36 min
iv.05	Shallow, Un-paved	57	0.0357	n/a	n/a	3.05	18.7 sec	0.31 min
iv.06	Shallow, Un-paved	77	0.0260	n/a	n/a	2.60	29.6 sec	0.49 min
iv.07	Shallow, Un-paved	60	0.0260	n/a	n/a	2.60	23.1 sec	0.38 min
iv.08	Shallow, Un-paved	35	0.0514	n/a	n/a	3.66	9.6 sec	0.16 min
iv.09	Shallow, Un-paved	85	0.0235	n/a	n/a	2.47	34.4 sec	0.57 min
iv.10	Shallow, Un-paved	53	0.0378	n/a	n/a	3.14	16.9 sec	0.28 min
Σ Length =		697					Tc = 11.14 min Use: 11.14 min TL = 7.46 min	

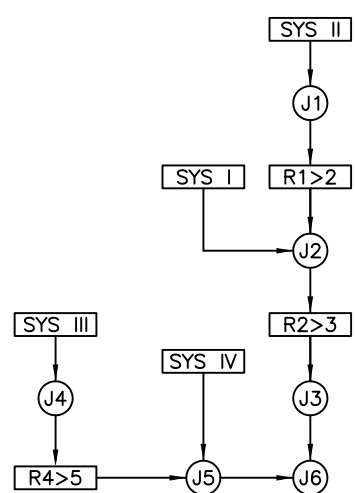


FIGURE 2: HMS SCHEMATIC @ EXISTING CONDITIONS

TABLE 5: DRAINAGE SYSTEM I: CURVE NUMBER DETERMINATION

LAND USE	SOIL UNIT	HYDRO GROUP	DRAINAGE AREA	CN	CN*A
Open Area / Offsite	CrD	D	0.556	80.00	44.497
Project Site / Undeveloped	CrD	D	8.159	80.00	652.706
Open Area / Offsite	CrB	D	8.170	80.00	653.621
Project Site / Undeveloped	CrB	D	6.192	80.00	495.335
Project Site / Undeveloped	RaB	B	1.483	61.00	90.446
Project Site / Undeveloped	SfB	B	2.702	61.00	164.824
TOTALS			27.259	77.08	2101.429
			USE:	77.10	

TABLE 6: DRAINAGE SYSTEM II: CURVE NUMBER DETERMINATION

LAND USE	UNIT	SOIL GROUP	HYDRO AREA	DRAINAGE CN	CN*A
Gravel Road	CrD	D	0.393	91.00	35.775
Paved Road	CrD	D	0.073	98.00	7.181
Bldg. / Roof	CrD	D	0.131	98.00	12.859
Open Area / Offsite	CrD	D	7.848	80.00	627.844
Open Area / School	CrD	D	2.866	80.00	229.290
Sidewalk / Drive	CrD	D	0.341	98.00	33.443
Project Site / Undeveloped	CrD	D	12.794	80.00	1023.508
TOTALS			52.090	77.74	4049.614
			USE:	77.70	

TABLE 7: DRAINAGE SYSTEM III: CURVE NUMBER DETERMINATION

LAND USE	UNIT	SOIL GROUP	HYDRO AREA	DRAINAGE CN	CN*A
Project Site / Undeveloped	CrD	D	0.661	80.00	52.891
Bldg. / Roof	SfB	B	0.056	98.00	5.466
Project Site / Undeveloped	CrD	D	0.661	80.00	52.891
Bldg. / Roof	SfB	B	0.056	98.00	5.466
Open Area / Offsite	SfB	B	4.695	61.00	286.370
Project Site / Undeveloped	SfB	B	1.019	61.00	62.132
TOTALS			6.430	63.27	406.860
			USE:	63.30	

TABLE 8: DRAINAGE SYSTEM IV: CURVE NUMBER DETERMINATION

LAND USE	UNIT	SOIL GROUP	HYDRO AREA	DRAINAGE CN	CN*A
Open Area / Offsite	CrD	D	1.000	80.00	79.982
Project Site / Undeveloped	CrD	D	1.537	80.00	122.974
Open Area / Offsite	CrD	D	0.005	80.00	0.374
Project Site / Undeveloped	CrD	D	0.477	80.00	38.147
Open Area / Offsite	RaB	B	0.168	61.00	10.248
Open Area / Pond Site	RaB	B	0.965	61.00	58.863
Project Site / Undeveloped	RaB	B	0.657	61.00	40.094
Bldg. / Roof	SfB	B	0.092	98.00	9.018
Sidewalk / Drive	SfB	B	0.056	98.00	5.447
Open Area / Offsite	SfB	B	1.544	61.00	94.170
Project Site / Undeveloped	SfB	B	0.109	61.00	6.651
TOTALS			4.072	64.59	263.013
			USE:	64.60	

TABLE 9: EXISTING DRAINAGE SYSTEM SUMMARY OF HEC-HMS INPUT DATA

SYSTEM ID	DRAINAGE AREA ac	DRAINAGE AREA m ²	Tc min	TLAG min	CN	Ia
I	27.262	0.042596	20.50	13.74	77.10	0.5940
II	52.090	0.081391	20.75	13.90	77.70	0.5740
III	6.430	0.010047	12.77	8.56	63.30	1.1596
IV	4.072	0.006363	11.14	7.46	64.60	1.0960
	89.854	0.140398			75.89	0.6353

CITY OF JOSHUA

COOPER VALLEY
PHASE 5

HYDROLOGIC DRAINAGE AREA
EXISTING CONDITIONS

GRANT ENGINEERING

ENGINEERS SURVEYORS PLANNERS
3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

DESIGNED GLM	SCALE	JOB NO.	SHEET
DRAWN GLM	DATE 3-15-20	4339	SD1
CHECKED GLM			

[illegible]

ID	REACH DESCRIPTION	LENGTH	SLOPE	DIAMETER	n-VALUE	VELOCITY	TIME	Tc	
ia.01	Overland Flow	25	0.0045	n/a	0.400	n/a	n/a	12.55 min	
ia.02	Shallow, Un-paved	50	0.0050	n/a	n/a	1.14	43.8 sec	0.73 min	
ia.03	Shallow, Un-paved	117	0.0341	n/a	n/a	2.98	39.3 sec	0.65 min	
ia.04	Shallow, Un-paved	155	0.0258	n/a	n/a	2.59	59.8 sec	1.00 min	
ia.05	Shallow, Un-paved	199	0.0201	n/a	n/a	2.29	87.0 sec	1.45 min	
ia.06	Shallow, Un-paved	99	0.0100	n/a	n/a	1.61	61.4 sec	1.02 min	
ia.07	Street Flow	464	0.0060	n/a	0.017	3.17	146.2 sec	2.44 min	
ia.08	Pipe	604	0.0050	36	0.013	6.67	90.5 sec	1.51 min	
ia.09	Pipe	496	0.0050	36	0.013	6.67	74.3 sec	1.24 min	
ia.10	Pipe	100	0.0050	36	0.013	6.67	21.1 sec	0.33 min	
ia.11	Pipe	105	0.0050	36	0.013	6.67	15.7 sec	0.26 min	
ia.12	Pipe	18	0.0050	36	0.013	6.67	2.7 sec	0.04 min	
ia.13	Pipe	262	0.0050	36	0.013	6.67	39.2 sec	0.65 min	
ia.14	Pipe	25	0.0050	36	0.013	6.67	3.7 sec	0.06 min	
ia.12	Pipe	272	0.0670	60	0.013	34.33	7.9 sec	0.13 min	
ia.13	Pipe	225	0.0050	60	0.013	9.38	24.0 sec	0.40 min	
Σ Length =		2,241					Σ TC =	24.18 min	
								Use:	24.18 min
								TL =	16.20 min

ID	REACH DESCRIPTION	LENGTH	SLOPE	DIAMETER	n-VALUE	VELOCITY	TIME	Tc	
ii.01	Overland Flow	25	0.0045	n/a	0.400	n/a	n/a	12.55 min	
ii.02	Shallow, Un-paved	65	0.0278	n/a	n/a	2.69	24.2 sec	0.40 min	
ii.03	Shallow, Un-paved	60	0.0333	n/a	n/a	2.94	20.4 sec	0.34 min	
ii.04	Shallow, Un-paved	132	0.0229	n/a	n/a	2.44	54.1 sec	0.90 min	
ii.05	Street Flow	339	0.0250	n/a	0.017	6.48	52.3 sec	0.87 min	
ii.06	Street Flow	288	0.0110	n/a	0.017	4.30	67.0 sec	1.12 min	
ii.07	Street Flow	525	0.0050	n/a	0.017	2.90	181.2 sec	3.02 min	
ii.08	Street Flow	186	0.0200	n/a	0.017	5.79	32.1 sec	0.53 min	
ii.09	Pipe	139	0.0182	36	0.013	12.73	10.9 sec	0.18 min	
ii.10	Pipe	127	0.0053	36	0.013	6.87	18.5 sec	0.31 min	
ii.11	Pipe	132	0.0050	42	0.013	7.36	17.9 sec	0.30 min	
ii.12	Pipe	142	0.0014	6x3	0.013	4.26	33.3 sec	0.56 min	
ii.13	Pipe	82	0.0014	6x3	0.013	4.26	19.2 sec	0.32 min	
Σ Length =		2,242					Σ Tc =	21.41 min	
								Use:	21.41 min
								TL =	14.34 min

ID	REACH DESCRIPTION	LENGTH	SLOPE	DIAMETER	n-VALUE	VELOCITY	TRAVEL TIME	Tc	
iii.i01	Overland Flow	25	0.0050	n/a	0.400	n/a	n/a	12.04 min	
iii.i02	Shallow, Un-paved	27	0.0050	n/a	n/a	1.14	23.7 sec	0.39 min	
iii.i03	Channelized	63	0.0207	n/a	0.060	1.40	45.1 sec	0.75 min	
iii.i04	Shallow, Un-paved	51	0.0392	n/a	n/a	3.19	16.0 sec	0.27 min	
iii.i05	Shallow, Un-paved	187	0.0267	n/a	n/a	2.64	70.9 sec	1.18 min	
iii.i06	Shallow, Un-paved	99	0.0190	n/a	n/a	2.22	44.5 sec	0.74 min	
iii.i07	Shallow, Un-paved	110	0.0200	n/a	n/a	2.28	48.2 sec	0.80 min	
Σ Length =		562					Σ Tc =	16.18 min	
								Use:	16.18 min
								TL =	10.84 min

[illegible]

LAND USE	UNIT	GROUP	AREA	CN	CN/A
Paved Road	CrD	D	0.073	98.00	7.170
Bldg. / Roof	CrD	D	0.131	98.00	12.859
Open Area / Offsite	CrD	D	7.848	80.00	627.844
Open Area / School	CrD	D	0.000	80.00	0.000
Sidewalk / Drive	CrD	D	0.341	98.00	33.443
Project Site / Developed	CrD	D	2.281	87.00	198.484
Paved Road	CrB	D	0.156	98.00	15.253
Open Area / Offsite	CrB	D	12.525	80.00	1001.991
Open Area / School	CrB	D	0.726	80.00	58.047
Project Site / Developed	CrB	D	17.693	87.00	1539.256
Bldg. / Roof	SfB	B	0.066	98.00	6.464
Sidewalk / Drive	SfB	B	0.138	98.00	13.482
Open Area / School	SfB	B	0.370	61.00	22.593
Open Area / Offsite	CrD	D	0.001	80.00	0.097
Project Site / Developed	CrD	D	6.779	87.00	589.797
Open Area / Offsite	CrD	D	0.551	80.00	44.113
Project Site / Developed	CrD	D	2.924	87.00	254.370
Project Site / Developed	RaB	B	0.605	75.00	45.351
Open Area / Offsite	SfB	B	0.000	61.00	0.028
Project Site / Developed	SfB	B	0.683	75.00	51.230
TOTALS			54.285	83.96	4557.646
			USE:	84.00	

LAND USE	UNIT	GROUP	AREA	CN	CN*A
Open Area / Offsite	CrD	D	1.050	80.00	83.990
Project Site / Developed	B	D	8.531	87.00	742.199
Open Area / Offsite	CrB	D	0.018	80.00	1.439
Project Site / Developed	CrB	D	2.393	87.00	208.166
Project Site / Developed	RaB	B	4.751	75.00	356.302
Paved Road	SfB	B	0.042	98.00	4.077
Bldg. / Roof	SfB	B	0.102	98.00	9.952
Open Area / Offsite	SfB	B	3.674	61.00	224.097
Residential @ 1/4 ac Lots	SfB	B	0.662	75.00	49.676
Sidewalk / Drive	SfB	B	0.004	98.00	0.419
Project Site / Developed	SfB	B	3.100	75.00	232.525
		TOTALS	24.326	78.63	1912.843
			USE:	78.60	

LAND USE		UNIT	SOIL GROUP	HYDRO AREA	DRAINAGE	
					CN	CN*A
Project Site	/ Developed	CrD	D	0.523	87.00	45.489
Project Site	/ Developed	CrD	D	0.884	87.00	76.926
Open Area	/ Offsite	CrD	D	0.005	80.00	0.374
Open Area	/ Offsite	RaB	B	0.168	61.00	10.248
Project Site	/ Developed	RaB	B	0.010	75.00	0.748
Open Area	/ Pond Site	RaB	B	0.988	61.00	60.268
Bldg.	/ Roof	SfB	B	0.120	98.00	11.766
Sidewalk	/ Drive	SfB	B	0.056	98.00	5.447
Open Area	/ Offsite	SfB	B	4.083	61.00	249.092
Project Site	/ Developed	SfB	B	0.464	75.00	34.804
TOTALS				6.778	66.34	449.674
				USE:	66.30	

LAND USE	UNIT	SOIL GROUP	HYDRO AREA	DRAINAGE CN	CN/A
Project Site / Developed	CrD	D	2.620	87.00	227.937
Project Site / Developed	CrD	D	2.052	87.00	178.500
Open Area / Offsite	CrD	D	0.005	80.00	0.384
Project Site / Developed	SfB	B	3.476	75.00	260.686
		TOTALS	5.532	79.45	439.507
			USE:	79.70	

AREA	DRAINAGE AREA		T _c	T _{LAG}		
ID	ac	m ²	min	min	CN	CN ^A
I	54.285	0.084820	26.49	17.75	84.00	0.8140
II	24.326	0.038010	21.41	14.34	78.60	0.5445
III	6.778	0.010591	16.18	10.84	66.30	0.1066
IV	6.357	0.009932	16.85	11.29	79.30	0.5221
	91.745	0.143352			80.93	0.5089

CITY OF JOSHUA			
COOPER VALLEY PHASE 5			
HYDROLOGIC DRAINAGE AREA POST-PROJECT CONDITIONS			
GRANT ENGINEERING			
ENGINEERS 3244 HEMPHILL		SURVEYORS FORT WORTH, TEXAS 76110	
		PLANNERS 817-923-3131	
DRAWN CHECKED	GLM GLM	SCALE DATE 3-15-20	JOB NO. 4339
			SHEET SD2

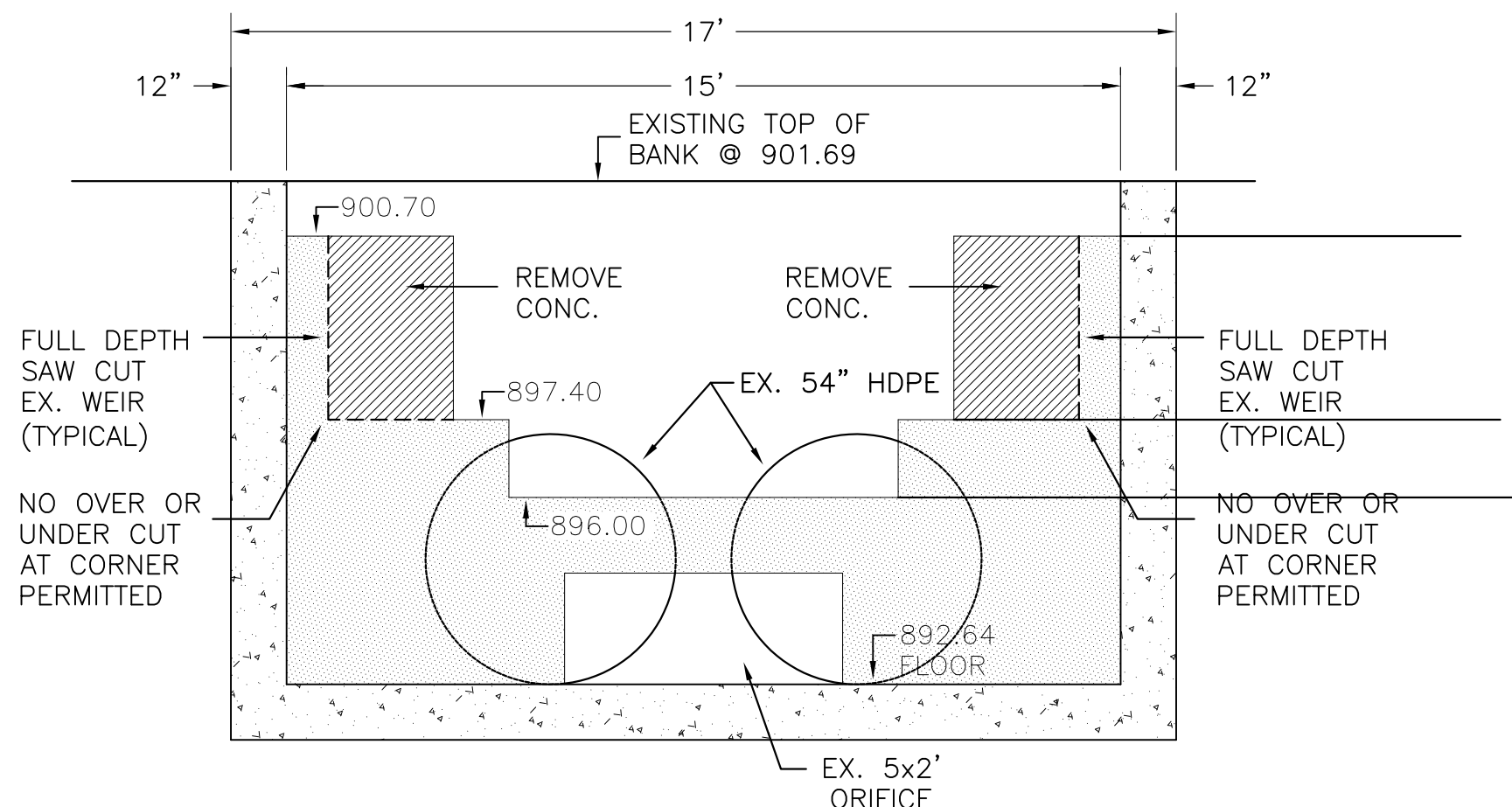


FIGURE 1: FRONT VIEW / DEMOLITION
OUTLET STRUCTURE

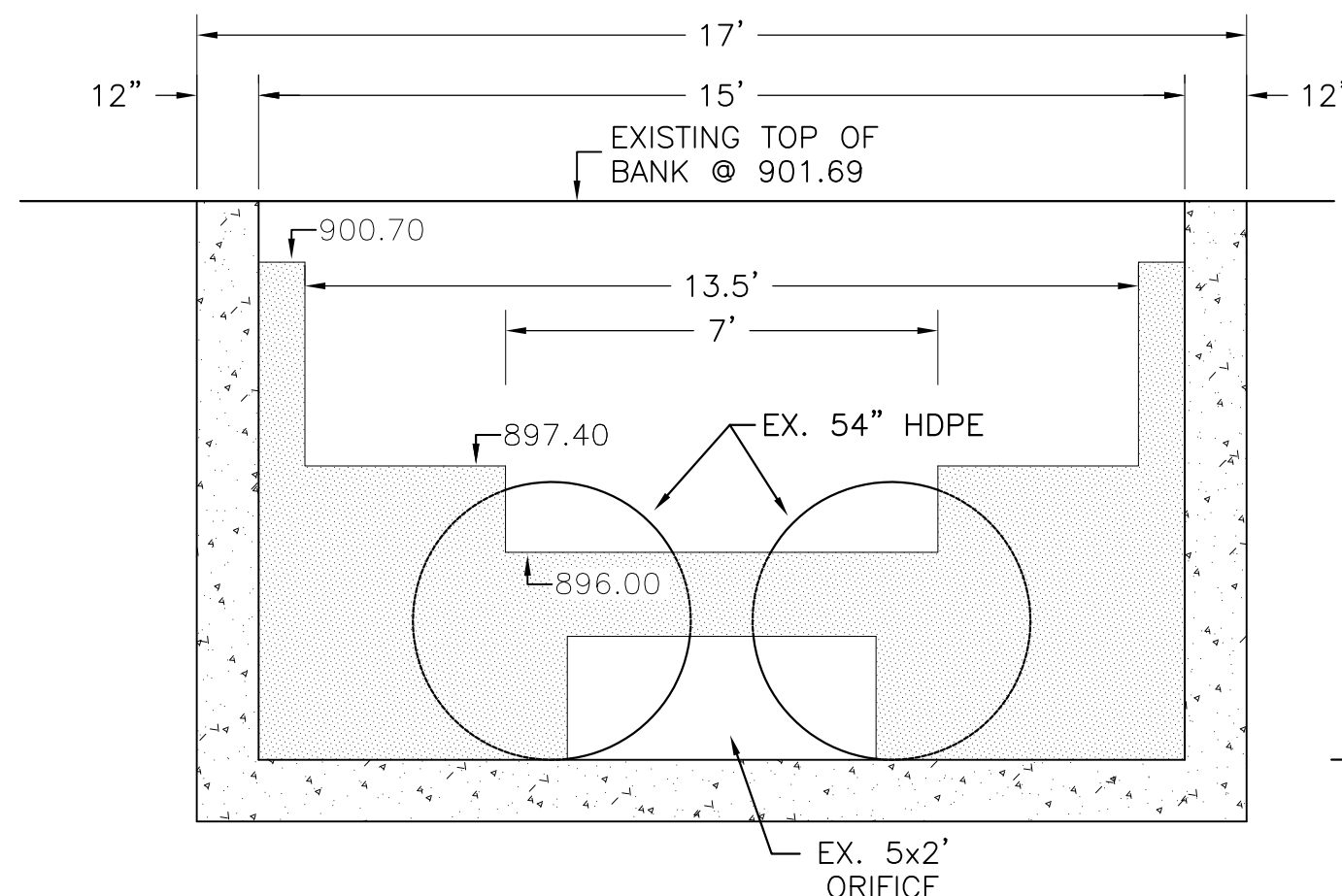


FIGURE 2: FRONT VIEW
REVISED OUTLET STRUCTURE

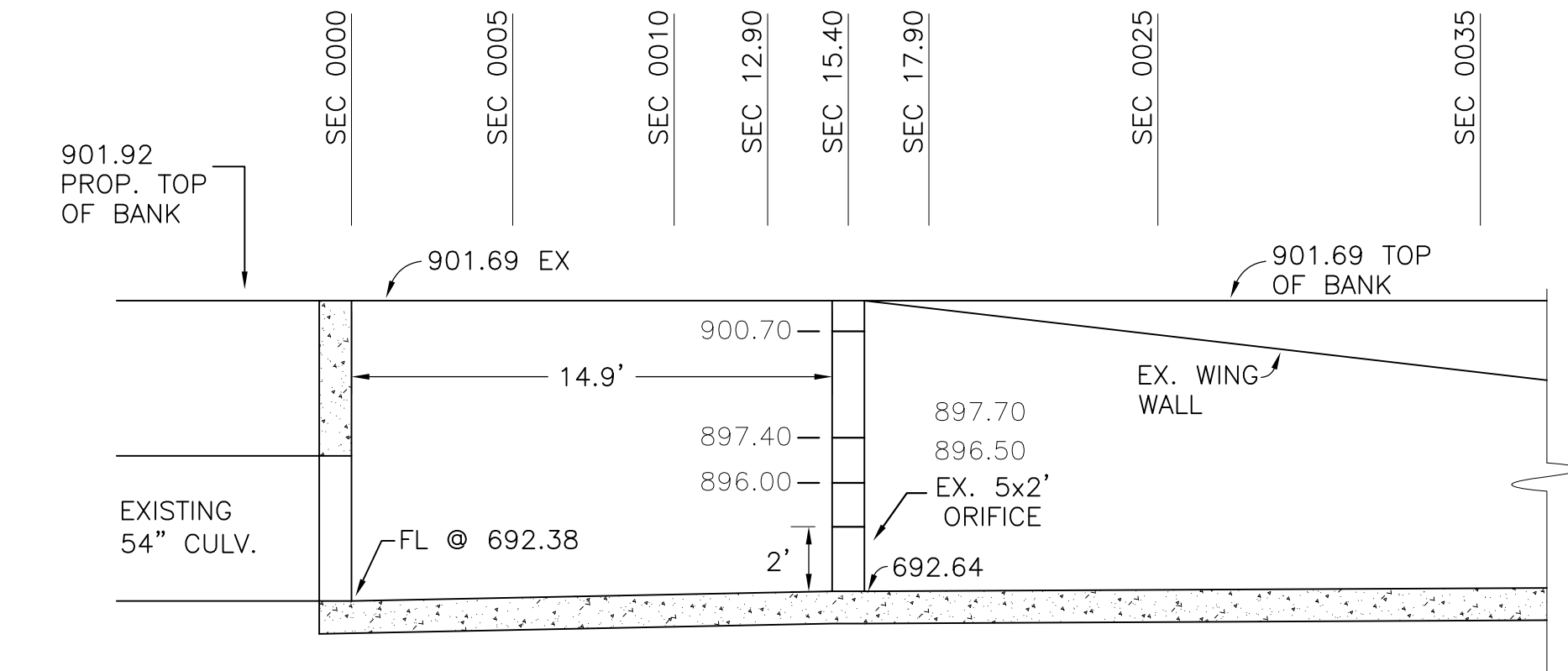


FIGURE 3: PROFILE VIEW
EXISTING OUTLET STRUCTURE

TABLE 1: WATER SURFACE ELEVATION
@ EXISTING 2-54" RCP CULVERT AT
INLET CONTROL (i.e. STARTING WSE)

WSE	FLOW DEPTH	CRITICAL DEPTH	CRITICAL AREA	WIDTH	FLOW	TOTAL	FLOW DEPTH	@WEIR FLOW	FLOW	TOTAL
Y	Y _c	A _c	T	Q _c	2*Q _c	Y	Q _o	2*Q _o		
892.38	0.00	0.000	0.000	0.000	0.000	---	---	---	0.000	0.000
892.50	0.12	0.080	0.064	1.189	0.084	---	---	---	0.167	0.167
893.00	0.62	0.413	0.731	2.599	2.198	---	---	---	4.395	4.395
893.50	1.12	0.747	1.731	3.348	7.064	---	---	---	14.127	14.127
894.00	1.62	1.080	2.935	3.844	14.554	---	---	---	29.109	29.109
894.50	2.12	1.413	4.276	4.177	24.548	---	---	---	49.095	49.095
895.00	2.62	1.747	5.706	4.386	36.933	---	---	---	73.866	73.866
895.50	3.12	2.080	7.188	4.487	51.623	---	---	---	103.246	103.246
896.00	3.62	2.413	8.687	4.488	68.575	---	---	---	137.149	137.149
896.50	4.12	2.747	10.169	4.389	87.832	---	---	---	175.665	175.665
897.00	4.62	3.080	11.601	4.183	109.629	4.62	117.892	235.783	219.258	219.258
897.50	5.12	3.413	12.944	3.852	134.640	5.12	129.733	259.466	259.466	259.466
898.00	5.62	3.747	14.151	3.360	164.788	5.62	140.580	281.160	281.160	281.160
898.50	6.12	4.080	15.156	2.618	206.932	6.12	150.648	301.297	301.297	301.297
899.00	6.62	4.413	15.833	1.237	321.429	6.620	160.085	320.169	320.169	320.169
899.50	7.12	4.747	---	---	---	---	7.120	168.995	337.990	337.990
900.00	7.62	5.080	---	---	---	---	7.620	177.459	354.917	354.917
900.50	8.12	5.413	---	---	---	---	8.120	185.537	371.072	371.072
901.00	8.62	5.747	---	---	---	---	8.620	193.277	386.553	386.553
901.50	9.12	6.080	---	---	---	---	9.120	200.719	401.437	401.437
901.69	9.31	6.207	---	---	---	---	9.310	203.475	406.950	406.950
902.00	9.62	6.413	---	---	---	---	9.620	207.894	415.789	415.789
903.00	10.62	7.080	---	---	---	---	10.620	221.550	443.100	443.100

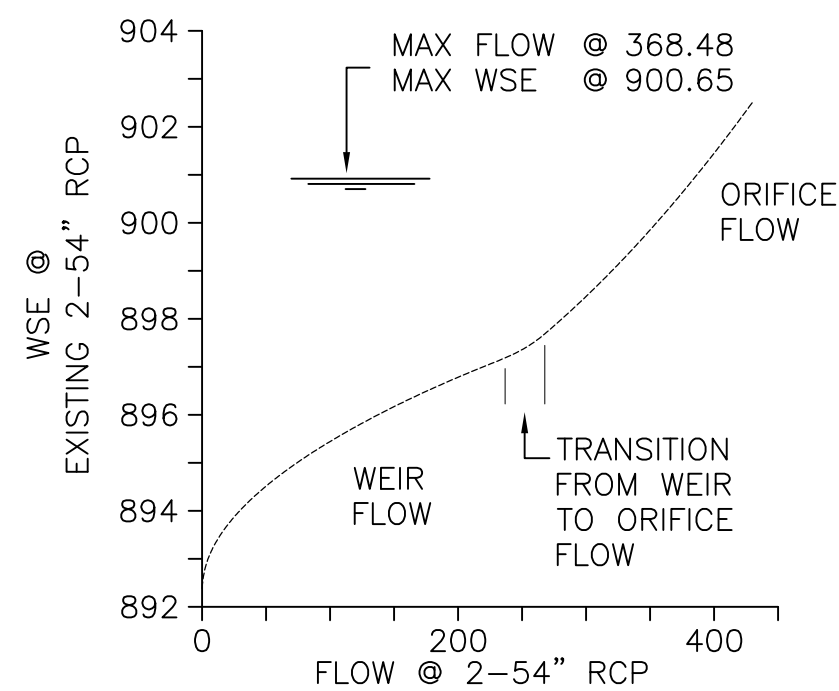


FIGURE 4: WSE @ 2-54" RCP
EXISTING CONDITIONS

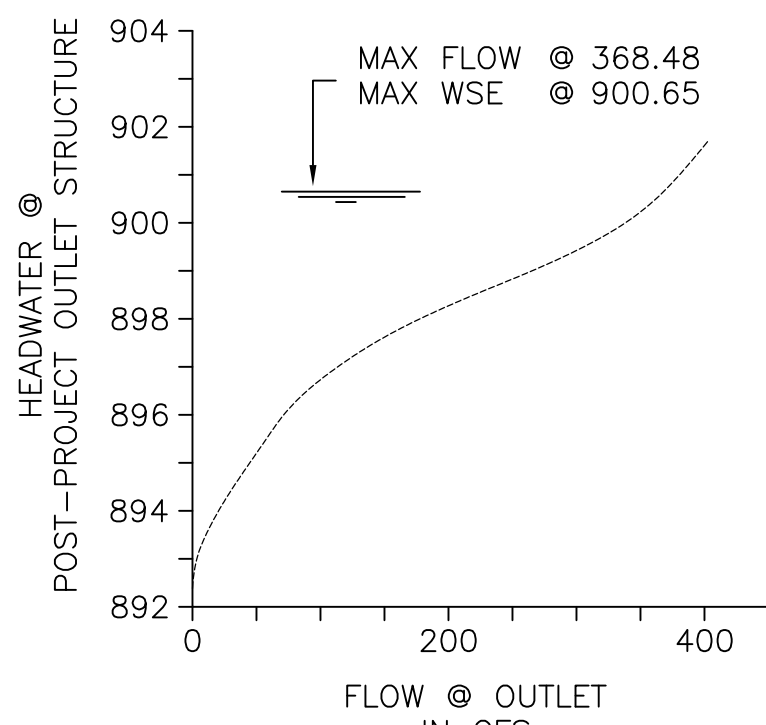


FIGURE 5: RATING CURVE
@ OUTLET STRUCTURE
POST-PROJECT CONDITIONS

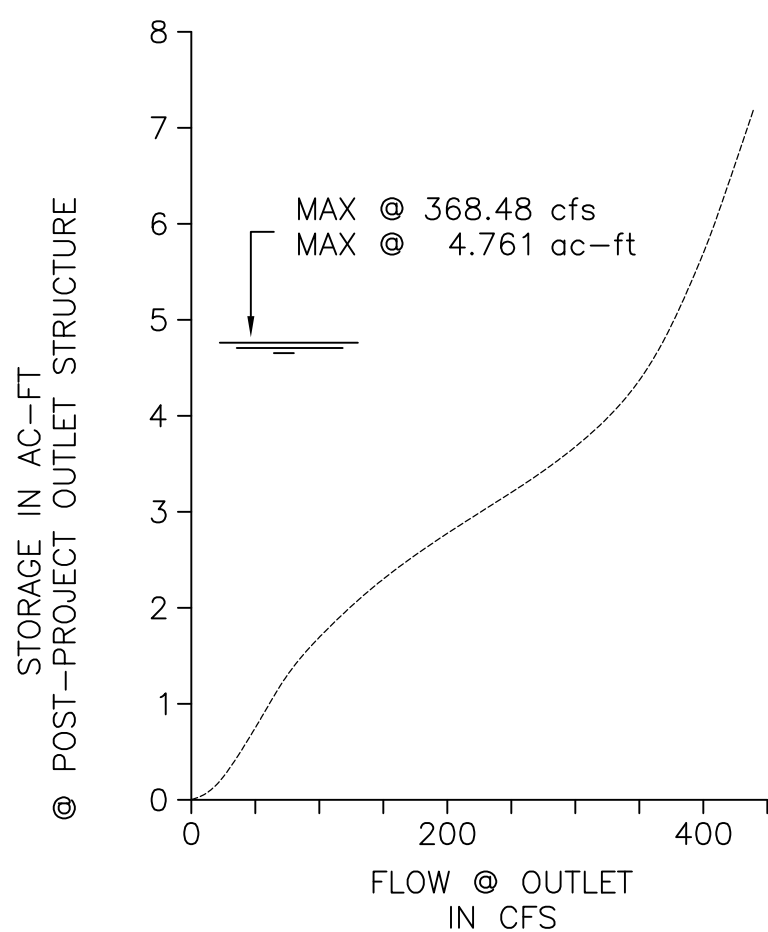


FIGURE 6: STORAGE INDICATION CURVE
@ OUTLET STRUCTURE
POST-PROJECT CONDITIONS

TABLE 2: WATER SURFACE ELEVATION
HEC-RAS RESULTS @ SECTION 0035

FLOW	WSE	CRITICAL WSE	ENERGY GRADE ELEV.	ENERGY GRADE SLOPE	CHANNEL VELOCITY	FLOW AREA	TOP WIDTH	FROUDE NUMBER
0.17	892.80	892.80	892.80	0.001205	0.38	0.44	15.00	0.39
4.40	893.14	892.90	893.15	0.000190	0.79	5.57	15.00	0.23
14.13	893.71	893.07	893.73	0.000096	1.00	14.19	15.00	0.18
29.11	894.39	893.25	894.42	0.000074	1.19	24.43	15.00	0.16
49.10	895.16	893.46	895.19	0.000065	1.37	35.89	15.00	0.16
73.87	896.14	893.67	896.17	0.000053	1.46	50.59	15.00	0.14
103.25	896.81	893.90	896.86	0.000061	1.70	60.73	15.00	0.15
137.15	897.44	894.14	897.50	0.000072	1.96	70.04	15.00	0.16
175.67	897.99	894.38	898.07	0.000086	2.24	78.39	15.00	0.17
219.26	898.50	894.64	898.60	0.000103	2.55	85.98	15.00	0.19
259.47	898.93	894.86	899.05	0.000119	2.81	92.41	15.00	0.20
281.16	899.15	894.98	899.28	0.000125	2.94	95.84	16.10	0.20
301.30	899.42	895.08	899.56	0.000125	3.02	100.42	17.94	0.21
320.17	899.69	895.18	899.83	0.000123	3.07	105.51	19.79	0.21
337.99	899.97	895.27	900.12	0.000119	3.10	111.41	21.74	0.20
354.92	900.31	895.35	900.45	0.000111	3.09	119.06	24.03	0.20
371.07	900.72	895.43	900.86	0.000099	3.02	129.60	26.87	0.19
386.55	901.18	895.50	901.30	0.000086	2.92	142.51	29.99	0.18
401.44	901.66	895.57	901.77	0.000073	2.80	157.81	33.30	0.17
406.95	901.85	895.59	901.96	0.000068	2.74	164.45	34.64	0.16
415.79	902.16	895.64	902.26	0.000061	2.66	175.30	36.73	0.15
443.10	903.15	895.76	903.23	0.000043	2.39	215.12	43.53	0.13

TABLE 3: RATING / STORAGE INDICATION CURVE
POST-PROJECT OUTLET STRUCTURE

WSE	FLOW	AREA	ΔVOL	ΣVOLUME
ft	cfs	ft ²	ft ³	ac
892.38	0.000	494	0	0.000
892.50	0.049	596	65	0.002
893.00	2.215	1021	404	0.011
893.50	10.161	5392	1603	0.048
894.00	20.070	12472	4466	0.150
894.50	31.769	23433	8976	0.356
895.00	44.682	24581	12004	0.632
895.50	57.779	25745	12582	0.921
896.00	70.377	26925	13168	1.223
896.50	88.400	28129	13764	1.539
897.00	112.833	29354	14371	1.869
897.50	140.948	30599	14988	2.213
898.00	176.452	31864	15616	2.571
898.50	219.260	33150	16253	2.944
899.00	266.288	34460	16902	3.332
899.50	307.022	36015	17619	3.737
900.00	339.694	37987	18500	4.162
900.50	362.983	40841	19707	4.614
901.00	380.827	42313	20788	5.091
901.50	396.619	42887	21300	5.580
901.69	402.322	43204	21526	5.768
902.00	411.246	43838	21841	6.078
903.00	439.052	52348	48093	7.182

TABLE 4: RAINFALL INTENSITIES AND DEPTH
EXISTING & POST-PROJECT CONDITIONS

TIME min	2-yr		5-yr		10-yr		25-yr		100-yr	
	in/hr	in	in/hr	in	in/hr	in	in/hr	in	in/hr	in
5	5.988	0.50	7.037	0.59	7.830	0.65	8.777	0.73	10.891	0.91
10	4.676	0.78	5.709	0.95	6.428	1.07	7.303	1.22	9.144	1.52
15	3.870	0.97	4.834	1.21	5.486	1.37	6.293	1.57	7.927	1.98
30	2.613	1.31	3.378	1.69	3.884	1.94	4.532	2.27	5.770	2.88
60	1.646	1.65	2.181	2.18	2.536	2.54	3.010	3.01	3.867	3.87
120	0.992	1.98	1.334	2.67	1.564	3.13	1.887	3.77	2.440	4.88
180	0.728	2.18	0.984	2.95	1.159	3.48	1.410	4.23	1.829	5.49
360	0.424	2.54	0.575	3.45	0.682	4.09	0.841	5.05	1.096	6.58
720	0.244	2.93	0.332	3.98	0.396	4.75	0.495	5.94	0.647	7.76
1440	0.140	3.36	0.190	4.57	0.228	5.48	0.289	6.93	0.379	9.09

TABLE 5: HEC-HMS RESULTS
EXISTING & POST-PROJECT CONDITIONS

STORM EVENT	PRE-PROJECT CONDITIONS	POST-PROJECT CONDITIONS		
		POND INFLOW	POND DISCHARGE	MAXIMUM WSE
2-yr	83.16 cfs	102.31 cfs	80.82 cfs	896.29
5-yr	146.36 cfs	167.62 cfs	142.88 cfs	897.53
10-yr	196.88 cfs	218.67 cfs	194.79 cfs	898.21
25-yr	276.08 cfs	295.01 cfs	269.79 cfs	899.04
100-yr	411.25 cfs	425.28 cfs	368.48 cfs	900.65

CITY OF JOSHUA

**COOPER VALLEY
PHASE 5**

HYDROLOGIC / HEC-HMS
CALCULATIONS / RESULTS

GRANT ENGINEERING

ENGINEERS SURVEYORS PLANNERS
3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

DESIGNED	GLM	SCALE	JOB NO.	SHEET
DRAWN	GLM			
CHECKED	GLM	DATE 3-15-20	4339	SD3

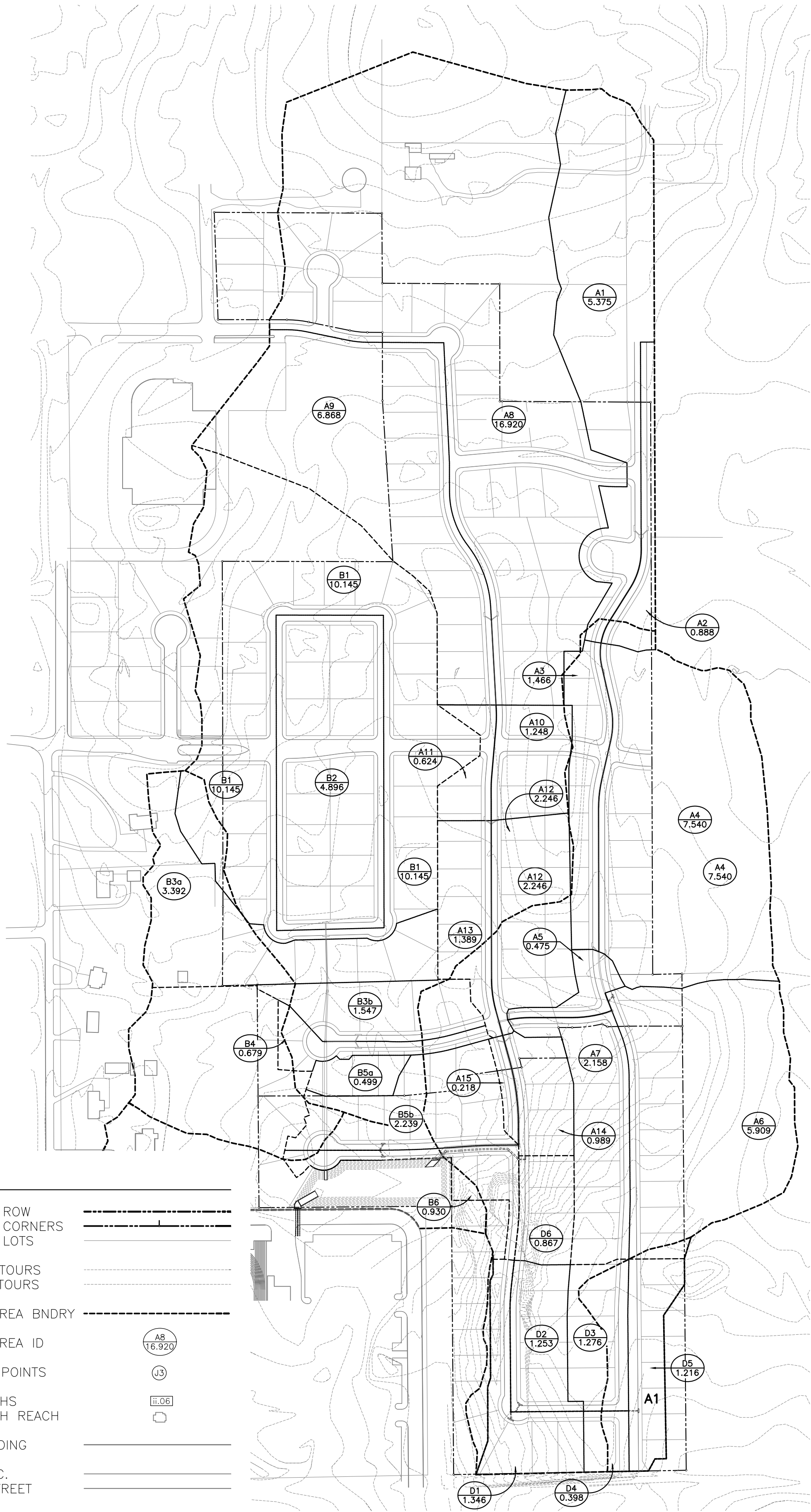


TABLE 1: SUMMARY OF DRAINAGE AREA SYSTEM I
ALEXANDRIA @ LIGHTHOUSE
DETERMINATION OF COMPOSITE C
POST-PROJECT CONDITIONS

ID	DESCRIPTION	AREA (sf)	AREA (ac)	C	C*A (ac)
A1	③ STA 22+50.00, 15.50' LFT, WATERFORD ~1/4 ac Residential Lots Open Area / Undeveloped Totals	176658 57469 234127	4.056 1.319 5.375	0.600 0.300 0.526	2.433 0.396 2.829
A2	③ STA 22+50.00, 15.50' RGT, WATERFORD ~1/4 ac Residential Lots Open Area / Undeveloped Totals	27161 11505 38667	0.624 0.264 0.888	0.600 0.300 0.511	0.374 0.079 0.453
A3	③ 11+70.91, 15.50' LFT, WATERFORD ~1/4 ac Residential Lots	63847	1.466	0.600	0.879
A4	③ 11+70.91, 15.50' RGT, WATERFORD ~1/4 ac Residential Lots Open Area / Undeveloped Totals	106359 222038 328397	2.442 5.097 7.539	0.600 0.300 0.397	1.465 1.529 2.994
A5	③ 13+26.00, 15.50' LFT, LIGHTHOUSE CT. ~1/4 ac Residential Lots	20705	0.475	0.600	0.285
A6	③ 13+32.00, 15.50' RGT, LIGHTHOUSE CT. ~1/4 ac Residential Lots Open Area / Undeveloped Totals	43173 212406 255579	1.032 4.876 5.909	0.600 0.300 0.352	0.619 1.463 2.082
A7	③ 13+32.00, 15.50' RGT, LIGHTHOUSE CT. ~1/4 ac Residential Lots	94632	2.158	0.600	1.295
A8	③ STA 20+28.00, 15.50' RGT, ALEXANDRIA LANE ~1/4 ac Residential Lots Open Area / Undeveloped Totals	364305 372734 737039	8.363 8.557 16.920	0.600 0.300 0.448	5.018 2.567 7.585
A9	③ STA 20+28.00, 15.50' LFT, ALEXANDRIA LANE ~1/4 ac Residential Lots School / Athletic Field Totals	150898 148256 299153	3.464 3.403 6.868	0.600 0.300 0.451	2.078 1.021 3.100
A10	③ STA 15+13.00, 15.50' RGT, ALEXANDRIA LANE ~1/4 ac Residential Lots	54342	1.248	0.600	0.749
A11	③ STA 15+13.00, 15.50' LFT, ALEXANDRIA LANE ~1/4 ac Residential Lots	27189	0.624	0.600	0.375
A12	③ STA 9+60.00, 15.50' LFT, ALEXANDRIA LANE (N) ~1/4 ac Residential Lots	97819	2.246	0.600	1.347
A13	③ STA 9+60.00, 15.50' RGT, ALEXANDRIA LANE (N) ~1/4 ac Residential Lots	60502	1.389	0.600	0.833
A14	③ STA 9+60.00, 15.50' LFT, ALEXANDRIA LANE (S) ~1/4 ac Residential Lots	43075	0.989	0.600	0.593
A15	③ STA 9+60.00, 15.50' RGT, ALEXANDRIA LANE (S) ~1/4 ac Residential Lots	9507	0.218	0.600	0.131

TABLE 1: SUMMARY OF INTERNAL DRAINAGE AREA
POST-PROJECT CONDITIONS

SYSTEM I: ALEXANDRIA @ LIGHTHOUSE	AREA (sf)	AREA (ac)	Tc (min)	C	C*A (ac)
A1 ③ STA 22+50.00, 15.50' LFT, WATERFORD	234127	5.375	---	0.526	2.829
A2 ③ STA 22+50.00, 15.50' RGT, WATERFORD	38667	0.888	---	0.511	0.453
A3 ③ 11+70.91, 15.50' LFT, WATERFORD	63847	1.466	---	0.600	0.879
A4 ③ 11+70.91, 15.50' RGT, WATERFORD	328397	7.539	---	0.397	2.994
A5 ③ 13+26.00, 15.50' LFT, LIGHTHOUSE CT.	20705	0.475	---	0.600	0.285
A6 ③ 13+32.00, 15.50' RGT, LIGHTHOUSE CT.	255579	5.867	---	0.415	2.434
A7 ③ 13+32.00, 15.50' RGT, LIGHTHOUSE CT.	94632	2.172	---	0.600	1.303
A8 ③ STA 20+28.00, 15.50' RGT, ALEXANDRIA LANE	737039	16.920	---	0.448	7.585
A9 ③ STA 20+28.00, 15.50' LFT, ALEXANDRIA LANE	299153	6.868	---	0.451	3.100
A10 ③ STA 15+13.00, 15.50' RGT, ALEXANDRIA LANE	54342	1.248	---	0.600	0.749
A11 ③ STA 15+13.00, 15.50' LFT, ALEXANDRIA LANE	27189	0.624	---	0.600	0.375
A12 ③ STA 9+60.00, 15.50' LFT, ALEXANDRIA LANE (N)	97819	2.246	---	0.600	1.347
A13 ③ STA 9+60.00, 15.50' RGT, ALEXANDRIA LANE (N)	60502	1.389	---	0.600	0.833
A14 ③ STA 9+60.00, 15.50' LFT, ALEXANDRIA LANE (S)	43075	0.989	---	0.600	0.593
A15 ③ STA 9+60.00, 15.50' RGT, ALEXANDRIA LANE (S)	9507	0.218	---	1.600	0.349
A1-4 ③ ~100' N WATERFORD & LIGHTHOUSE	665037	15.267	22.630	0.469	7.156
A5&7 ③ ALEXANDRIA & LIGHTHOUSE CT.	115337	2.648	15.000	0.600	1.589
A8-15 ③ LIGHTHOUSE & ALEXANDRIA LANE	1328627	30.501	25.550	0.490	14.931

SYSTEM II: JOLLIE @ DETENTION POND (W)	AREA (sf)	AREA (ac)	Tc (min)	C	C*A (ac)
B1 ③ STA 36+05.00, 15.50' RGT, SHELIA CIRCLE (S)	441929	10.145	---	0.544	5.519
B2 ③ STA 36+05.00, 15.50' LFT, SHELIA CIRCLE (S)	213253	4.896	---	0.600	2.937
B3a ③ STA 26+51.69 LINE E - AREA DRAIN	147741	3.392	---	0.452	1.533
B3b ③ STA 9+31.17, 15.50' LFT, LIGHTHOUSE COURT	67381	1.547	---	0.600	0.928
B4 ③ STA 9+31.17, 15.50' RGT, LIGHTHOUSE COURT	29589	0.679	---	0.600	0.408
B5a ③ STA 3+50.00, 15.50' RGT, JOLLIE COURT	21729	0.499	---	0.600	0.299
B5b ③ STA 3+50.00, 15.50' LFT, JOLLIE COURT	97551	2.239	---	0.600	1.344
B6 ③ STA 9+20.17, 15.50' RGT, WATERFORD	40495	0.930	---	0.600	0.558
B1-4 ③ STA 36+05.00, 15.50' LFT, SHELIA CIRCLE (SOUTH)	899893	20.659	15.420	0.548	11.325

SYSTEM IV: JOLLIE @ DETENTION POND (E)	AREA (sf)	AREA (ac)	Tc (min)	C	C*A (ac)
D1 ③ STA 2+96.00, 18.10 LFT., ALEXANDRIA LN	58653	1.346	15.000	0.600	0.808
D2 ③ STA 2+96.00, 25.34 RGT., ALEXANDRIA LN	54588	1.253	15.000	0.600	0.752
D3 ③ STA 0+00.00, 15.5', LFT., ALEXANDRIA LN	55575	1.276	15.000	0.600	0.766
D4 ③ STA 0+00.00, 15.5' RGT., ALEXANDRIA LN	17334	0.398	15.000	0.600	0.239
D5 ③ STA 0-24.00 ALEXANDRIA LN	52976	1.216	15.000	0.600	0.730
D6 ③ STA 9+20.00, ALEXANDRIA 15.5', RGT.	37763	0.867	15.000	0.600	0.520
D3-5 ③ ALEXANDRIA LN @ WATERFORD	125885	2.890	15.000	0.600	1.734

TABLE 2: SUMMARY OF DRAINAGE AREA SYSTEM II
NORTHWEST POND @ JOLLIE
DETERMINATION OF COMPOSITE C
POST-PROJECT CONDITIONS

ID	DESCRIPTION	AREA (sf)	AREA (ac)	C	C*A (ac)
B1	B1 ③ STA 36+05.00, 15.50' RGT, SHELIA CIRCLE (S) ~1/4 ac Residential Lots Building, Roof Paving Open Area / Athletic Field Open Area / Undeveloped Totals	337960 3215 7492 66698 26564 441929	7.758 0.074 0.172 1.531 0.610 10.145	0.600 0.900 0.900 0.300 0.300 0.544	4.655 0.066 0.155 0.459 0.183 5.519
B2	③ STA 36+05.00, 15.50' LFT, SHELIA CIRCLE (S) ~1/4 ac Residential Lots	213253	4.896	0.600	2.937
B3a	③ STA 26+51.69 LINE E - AREA DRAIN ~1/4 ac Residential Lots Building, Roof Open Area / Undeveloped Totals	72347 1208 74186 147741	1.661 0.028 1.703 3.392	0.600 0.900 0.300 0.452	0.997 0.025 0.511 1.532
B3b	③ STA 9+31.17, 15.50' LFT, LIGHTHOUSE COURT ~1/4 ac Residential Lots	67381	1.547	0.600	0.928
B4	③ STA 9+31.17, 15.50' RGT, LIGHTHOUSE COURT ~1/4 ac Residential Lots	29589	0.679	0.600	0.408
B5a	③ STA 3+50.00, 15.50' RGT, JOLLIE COURT ~1/4 ac Residential Lots	21729	0.499	0.600	0.299
B5b	③ STA 3+50.00, 15.50' LFT, JOLLIE COURT ~1/4 ac Residential Lots	97551	2.239	0.600	1.344
B6	③ STA 9+20.17, 15.50' RGT, WATERFORD ~1/4 ac Residential Lots	40495	0.930	0.600	0.558

TABLE 2: SUMMARY OF DRAINAGE AREA SYSTEM IV
NORTHEAST POND @ JOLLIE
DETERMINATION OF COMPOSITE C
POST-PROJECT CONDITIONS

ID	DESCRIPTION	AREA (sf)	AREA (ac)	C	C*A (ac)
D1	③ STA 2+96.00, 18.10 LFT., ALEXANDRIA LN ~1/4 ac Residential Lots	58653	1.346	0.600	0.808
D2	③ STA 2+96.00, 25.34 RGT., ALEXANDRIA LN ~1/4 ac Residential Lots	54588	1.253	0.600	0.752
D4	③ STA 0+00.00, 15.5', LFT., ALEXANDRIA LN ~1/4 ac Residential Lots	55575	1.276	0.600	1.347
D3	③ STA 0+00.00, 15.5' RGT., ALEXANDRIA LN ~1/4 ac Residential Lots	17334	0.398	0.600	0.752
D5	③ STA 0-24.00 ALEXANDRIA LN ~1/4 ac Residential Lots	52976	1.216	0.600	0.766
D6	③ STA 9+20.00, ALEXANDRIA 15.5', RGT. ~1/4 ac Residential Lots	37763	0.867	0.600	0.520

CITY OF JOSHUA

COOPER VALLEY
PHASE 5

DRAINAGE AREA MAP / CALCULATIONS

GRANT ENGINEERING

ENGINEERS SURVEYORS PLANNERS
3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

DESIGNED GLM	SCALE	JOB NO.	SHEET
DRAWN GLM	DATE 3-15-20	4339	SD4
CHECKED GLM			

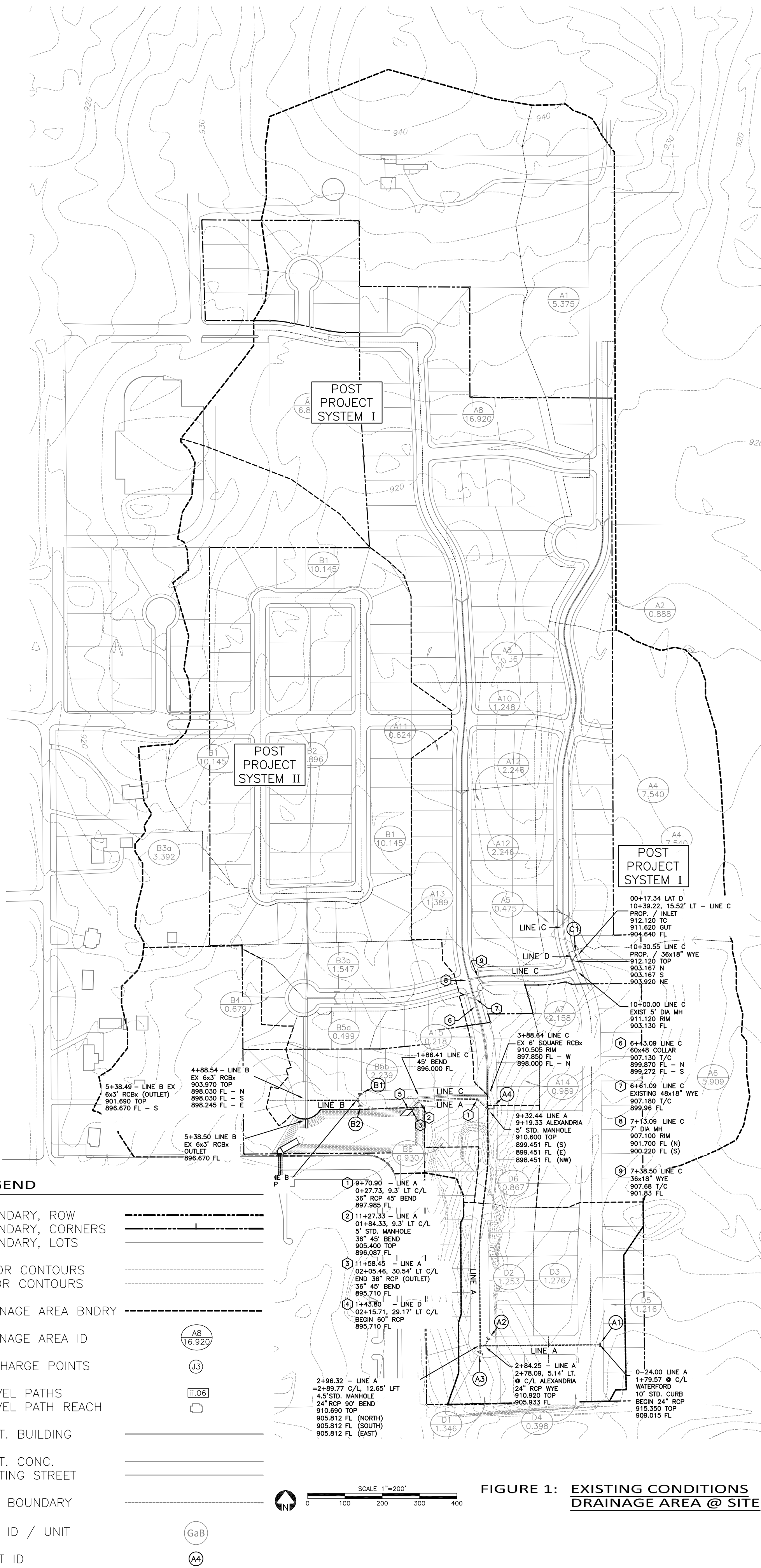


TABLE 1: SUMMARY OF DRAINAGE AREAS / INLETS PROPOSED CONDITIONS

AREA ID	INLET ID	DESCRIPTION	AREA		C	C*A
			sf	ac		
D3-5	A1	D3-5 @ ALEXANDRIA LN @ WATERFORD	125885	2.890	0.600	1.7340
D1	A2	D1 @ STA 2+96.00, 18.10 LFT., ALEXANDRIA LN	58653	1.346	0.600	0.8079
D2	A3	D2 @ STA 2+96.00, 25.34 RGT., ALEXANDRIA LN	54588	1.253	0.600	0.7519
D6	A4	D6 @ STA 9+20.00, ALEXANDRIA 15.5', RGT.	37763	0.867	0.600	0.5201
A6	C1	A6 @ 13+32.00, 15.50' RGT, LIGHTHOUSE CT.	255579	5.867	0.600	3.5204

TABLE 2: SUMMARY OF FLOWS @ PROPOSED INLETS PROPOSED CONDITIONS

AREA ID	INLET ID	DESCRIPTION	AREA		RUNOFF COEFF.	C*A	Tc	i	25-yr FLOW	i	100-yr FLOW
			sf	ac							
D3-5	A1	D3-5 @ ALEXANDRIA LN @ WATERFORD	125885	2.890	0.600	1.734	15.00	6.417	11.127	7.927	13.745
D1	A2	D1 @ STA 2+96.00, 18.10 LFT., ALEXANDRIA LN	58653	1.346	0.600	0.808	15.00	6.417	5.184	7.927	6.404
D2	A3	D2 @ STA 2+96.00, 25.34 RGT., ALEXANDRIA LN	54588	1.253	0.600	0.752	15.00	6.417	4.825	7.927	5.960
D6	A4	D6 @ STA 9+20.00, ALEXANDRIA 15.5', RGT.	37763	0.867	0.600	0.520	15.00	6.417	3.338	7.927	4.123
A6	C1	A6 @ 13+32.00, 15.50' RGT, LIGHTHOUSE CT.	255579	5.867	0.600	3.520	15.00	6.417	22.590	7.927	27.906

TABLE 3: INLETS IN A SAG / 25-YEAR EVENT CALCULATIONS

INLET ID	STATION	LOCATION STREET	AREA	RUNOFF COEF.	Tc	i	25-yr FLOW	CARRY OVER FLOW	SPILL OVER FLOW	DESIGN FLOW	So	CRITICAL DEPTH	Yo	Yo	α	W	H	Do	Qo
			(ac)	---	(min)	(in/hr)	(cfs)	(ft/ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
A1	STA 0-24.00	ALEXANDRIA LANE	2.890	0.600	15.00	6.417	11.127	0.000	0.000	11.127	0.0100	0.288	0.538	0.538	0.333	1.500	0.500	0.432	1.113
A2	STA 2+84.25	ALEXANDRIA LANE	1.346	0.600	15.00	6.417	5.184	0.000	0.000	5.184	0.0100	0.273	0.273	0.273	0.333	1.500	0.500	0.260	0.518
A3	STA 2+96.32	ALEXANDRIA LANE	1.253	0.600	15.00	6.417	4.825	0.000	0.000	4.825	0.0100	0.165	0.667	0.667	0.333	1.500	0.500	0.247	0.482
C1	STA 9+32.44	ALEXANDRIA LANE	0.867	0.600	15.00	6.417	3.338	0.000	0.000	3.338	0.0100	0.129	0.520	0.520	0.333	1.500	0.500	0.194	0.334

TABLE 3: INLETS IN A SAG / 25-YEAR EVENT CALCULATIONS (CONTINUED)

INLET ID	STATION	LOCATION STREET	25-yr FLOW	Yo	MAX	CNTRL.	CAP.	CAP.	Qc	Do	INLET	L	Qc	CARRY	%Q	COMMENTS
			(cfs)	DEPTH	GUTTER DEPTH	@INLET	@WEIR	@ORIFICE	TOTAL CAP.	DEPTH @u/s	CAPACITY Qc/L	(ft)	INLET CAP.	OVER	CAP.	
A1	STA 0-24.00	ALEXANDRIA LANE	11.127	0.432	0.783	1.116	ORIFICE	46.241	25.022	25.022	0.432	2.502	10.00	25.02	0.00	100.0%
A2	STA 2+84.25	ALEXANDRIA LANE	5.184	0.208	0.783	1.116	ORIFICE	64.447	37.534	37.534	0.208	2.502	15.00	37.53	0.00	100.0%
A3	STA 2+96.32	ALEXANDRIA LANE	4.825	0.198	0.990	1.323	ORIFICE	83.179	41.778	41.778	0.198	2.785	15.00	41.78	0.00	100.0%
C1	STA 9+32.44	ALEXANDRIA LANE	3.338	0.194	0.990	1.323	ORIFICE	59.682	27.852	27.852	0.194	2.785	10.00	27.85	0.00	100.0%

TABLE 4: INLETS IN A SAG / 100-YEAR EVENT CALCULATIONS

INLET ID	STATION	LOCATION STREET	100-yr FLOW	RUNOFF COEF.	Tc	i	100-yr FLOW	CARRY OVER FLOW	SPILL OVER FLOW	DESIGN FLOW	So	CRITICAL DEPTH	Yo	Yo	α	W	H	Do	Qo
			(cfs)	---	(min)	(in/hr)	(cfs)	(ft/ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
A1	STA 0-24.00	ALEXANDRIA LANE	2.890	0.600	15.00	7.927	13.745	0.000	0.000	13.745	0.0100	0.331	0.538	0.538	0.333	1.500	0.500	0.497	1.375
A2	STA 2+84.25	ALEXANDRIA LANE	1.346	0.600	15.00	7.927	6.404	0.000	0.000	6.404	0.0100	0.160	0.273	0.273	0.333	1.500	0.500	0.239	0.427
A3	STA 2+96.32	ALEXANDRIA LANE	1.253	0.600	15.00	7.927	5.960	0.000	0.000	5.960	0.0100	0.152	0.667	0.667	0.333	1.500	0.500	0.228	0.397
C1	STA 9+32.44	ALEXANDRIA LANE	0.867	0.600	15.00	7.927	4.123	0.000	0.000	4.123	0.0100	0.148	0.520	0.520	0.333	1.500	0.500	0.223	0.412

TABLE 4: INLETS IN A SAG / 100-YEAR EVENT CALCULATIONS (CONTINUED)

INLET ID	STATION	LOCATION STREET	AREA	Yo	MAX	CNTRL.	CAP.	CAP.	Qc	Do	INLET	L	Qc	CARRY	%Q	COMMENTS
			(ac)	DEPTH	GUTTER DEPTH	@INLET	@WEIR	@ORIFICE	TOTAL CAP.	DEPTH @u/s	CAPACITY Qc/L	(ft)	INLET CAP.	OVER	CAP.	
A1	STA 0-24.00	ALEXANDRIA LANE	13.745	0.497	0.783	1.116	ORIFICE	46.241	25.022	25.022	0.497	2.502	10.00	25.02	0.00	100.0%
A2	STA 2+84.25	ALEXANDRIA LANE	6.404	0.239	0.783	1.116	ORIFICE	64.447	37.534	37.534	0.239	2.502	15.00	37.53	0.00	100.0%
A3	STA 2+96.32	ALEXANDRIA LANE	5.960	0.228	0.990	1.323	ORIFICE	83.179	41.778	41.778	0.228	2.785	15.00	41.78	0.00	100.0%
C1	STA 9+32.44	ALEXANDRIA LANE	4.123	0.223	0.990	1.323	ORIFICE	59.682	27.852	27.852	0.223	2.785	10.00	27.85	0.00	100.0%

TABLE 5: INLETS ON GRADE / 25-YEAR EVENT CALCULATIONS

INLET ID	STATION/DESCRIPTION	AREA ID	AREA	C	Tc	SLOPE	n	i	25-yr FLOW	CARRY OVER	SPLIT FLOW	DESIGN FLOW	STREET CAPACITY	CAP. @ROW	Yo	Sp	Qo/Lo	Lo	PROVIDED L	L/Lo	INLET CAPACITY	CARRY OVER
A4	STA 9+32.44	ALEXANDRIA LANE	D6	0.867	0.600	15.00	0.01500	0.017	6.417	3.338	0.000	3.752	12.167	25.973	0.277	8.590	0.898	4.177	10.000	2.394	3.752	0.000

TABLE 6: INLETS IN A SAG / 100-YEAR EVENT CALCULATIONS (CONTINUED)

INLET ID	STATION/DESCRIPTION	AREA ID	AREA	C	Tc	SLOPE	n	i	100-yr FLOW	CARRY OVER	SPLIT FLOW	DESIGN FLOW	STREET CAPACITY	CAP. @ROW	Yo	Sp	Qo/Lo	Lo	PROVIDED L	L/Lo	INLET CAPACITY	CARRY OVER
A4	STA 9+32.44	ALEXANDRIA LANE	D6	0.867	0.600	15.00	0.01500	0.017	6.417	3.338	0.000	3.752	12.167	25.973	0.277	8.590	0.898	4.177	10.000	2.394	3.752	0.000

CITY OF JOSHUA

COOPER VALLEY
PHASE 5

DRAINAGE AREA MAP / CALCULATIONS

GRANT ENGINEERING

ENGINEERS SURVEYORS PLANNERS
3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

DESIGNED GLM	SCALE	JOB NO.	SHEET
DRAWN GLM	DATE	4339	SD5
CHECKED GLM	3-15-20		

TABLE 1: DESIGN HGL @ 100-yr

DOWNSTREAM			UPSTREAM			LENGTH	DRAINAGE AREA										i 100-yr in/hr	Q 100-YR cfs	100-yr BY- PASS cfs	100-yr DESIGN FLOW cfs	
STA	FL ELEV	HYDRAULIC STRUCTURE	STA	FL ELEV	HYDRAULIC STRUCTURE		INCREMENTAL		TOTAL AREA	INCREMENTAL		TOTAL C*A	INLET TIME	Tc @u/s	VEL. fps	TRAVEL TIME min					Tc @d/s
ft	ft		ft	ft			ID	AREA	ac	C	C*A	ac	min	10a							min
1	-	-	2	-	-	3	4	5	6	7	8	9	10			11	12				
LINE A - ALEXANDRIA TO JOLLIE / DETENTION POND																					
2+84.25	905.93	24" WYE	0+24.00	909.02	INLET	308.25	D3-5	2.89	2,890	0.60	1,734	1,734	15.00	15.00	4.38	1.17	16.17	7.927	13.75	0.00	13.75
2+96.32	905.81	4.5" STD MH	2+84.25	905.93	24" WYE	12.07	D2	1.249	4,139	0.60	0.749	2,483	15.00	16.17	6.08	0.03	16.21	7.692	19.10	0.00	19.10
9+32.44	899.45	5" STD MH	2+96.32	905.81	4.5" STD MH	636.12	D1	1,351	5,490	0.60	0.811	3,294	15.00	16.21	8.06	1.32	17.52	7.686	25.32	0.00	25.32
9+70.90	897.99	30" - 45" BEND	9+32.44	898.45	5" STD MH	38.46	D6	0.867	6,357	0.60	0.520	3,814	15.00	17.52	4.02	0.16	17.68	7.441	28.38	0.00	28.38
11+27.33	896.09	5" STD MH	9+70.90	897.99	30" - 45" BEND	156.43	---	0	6,357	0.00	0.000	3,814	---	17.68	4.02	0.65	18.33	7,413	28.27	0.00	28.38
11+58.45	895.71	OUTLET	11+27.33	896.09	5" STD MH	31.12	---	0	6,357	0.00	0.000	3,814	---	18.33	4.02	0.13	18.46	7,299	27.84	0.00	28.38
LATERAL A2 @ LINE A																					
0+00.00	905.93	24" WYE	0+20.64	906.35	INLET	20.64	D2	1.249	1,249	0.60	0.749	0,749	15.00	15.00	1.89	0.18	15.18	7,927	5.94	0.00	5.94
LATERAL A3 @ LINE A																					
0+00.00	905.81	4.5" STD MH	0+18.76	906.19	INLET	18.76	D1	1,351	1,351	0.60	0.811	0,811	15.00	15.00	2.05	0.15	15.15	7,927	6.43	0.00	6.43
LATERAL A4 @ LINE A																					
0+00.00	899.45	5" STD MH	0+15.50	899.76	INLET	15.50	D6	0.867	0,867	0.60	0.520	0,520	15.00	15.00	1.31	0.20	15.20	7,927	4.12	0.00	4.12
LINE B - STA 3+80 TO 4+90 JOLLIE CT																					
4+88.54	898.25	24" @ 6x3" RCBx	3+49.71	898.94	24" WYE	138.83	B5b-6	3,169	3,169	0.60	1,901	1,901	15.00	15.00	4.80	0.48	15.48	7,927	15.07	0.00	15.07
5+38.50	896.67	Outlet	4+88.54	898.03	24" @ 6x3" RCBx	49.96	B1-5a	21,157	24,326	0.60	12,694	14,596	21.09	21.09	5.56	0.15	21.24	6,859	100.10	0.00	100.10
LATERAL B1 @ LINE B																					
0+00.00	898.94	24" WYE	0+17.33	899.29	INLET	17.33	B5b	2,239	2,239	0.60	1,343	1,343	15.00	15.00	3.39	0.09	15.09	7,927	10.65	0.00	10.65
LATERAL B2 @ LINE B																					
0+00.00	898.94	4.5" STD MH	0+17.33	899.29	INLET	17.33	D1	1,351	1,351	0.60	0.811	0,811	15.00	15.00	2.05	0.14	15.14	7,927	6.43	0.00	6.43
EXISTING LINE C - JOLLIE; ALEXANDRIA; TO WATERFORD																					
10+30.55	903.17	36x18" WYE	10+31.55	903.17	u/s 36" RCP	1.00	A1-4	15,269	15,269	0.47	7,161	7,161	25.55	25.55	6.34	0.00	25.55	6,260	44.83	0.00	44.83
10+00.00	903.13	5" STD MH	10+30.55	903.17	36x18" WYE	30.55	A6	5,909	21,178	0.35	2,080	9,241	15.00	25.55	8.18	0.06	25.61	6,260	57.85	0.00	57.85
7+38.50	901.83	36x18" WYE	10+00.00	903.13	5" STD MH	261.50	---	---	21,178	---	---	9,241	---	25.61	8.18	0.53	26.15	6,252	57.78	0.00	57.85
7+13.09	901.70	7" MH	7+38.50	901.83	36x18" WYE	25.41	A5&7	2,633	23,811	0.60	1,580	10,821	15.00	26.15	9.47	0.04	26.19	6,189	66.97	0.00	66.97
6+61.09	899.96	48" WYE	7+13.09	900.22	7" MH	52.40	A8-15	28,627	52,481	0.55	15,711	26,532	22.63	26.19	13.06	0.07	26.26	6,184	164.07	0.00	164.07
6+43.06	899.27	48x60 Collar	6+61.09	899.96	48" WYE	18.03	---	---	52,481	---	---	26,532	---	26.26	13.06	0.02	26.28	6,176	163.86	0.00	164.07
3+88.64	898.00	7" RCBx	6+43.06	899.87	48x60 Collar	254.42	---	---	52,481	---	---	26,532	---	26.28	8.36	0.51	26.79	6,173	163.79	0.00	164.07
1+86.41	896.00	60"-1/4 BEND	3+88.64	897.85	7" RCBx	202.23	---	---	52,481	---	---	26,532	---	26.79	8.36	0.40	27.19	6,114	162.23	0.00	164.07
1+45.25	895.71	OUTLET	1+86.41	896.00	60"-1/4 BEND	41.16	---	---	52,481	---	---	26,532	---	27.19	8.36	0.08	27.27	6,069	161.01	0.00	164.07
LATERAL C2 @ WATERFORD & LIGHTHOUSE																					
0+00.00	903.17	36x18" WYE	0+17.33	904.64	INLET	17.33	A6	5,909	5,909	0.47	2,771	2,771	15.00	15.00	6.99	0.04	15.04	7,927	21.97	0.00	21.97

TABLE 1: DESIGN HGL @ 100-yr (Continued)

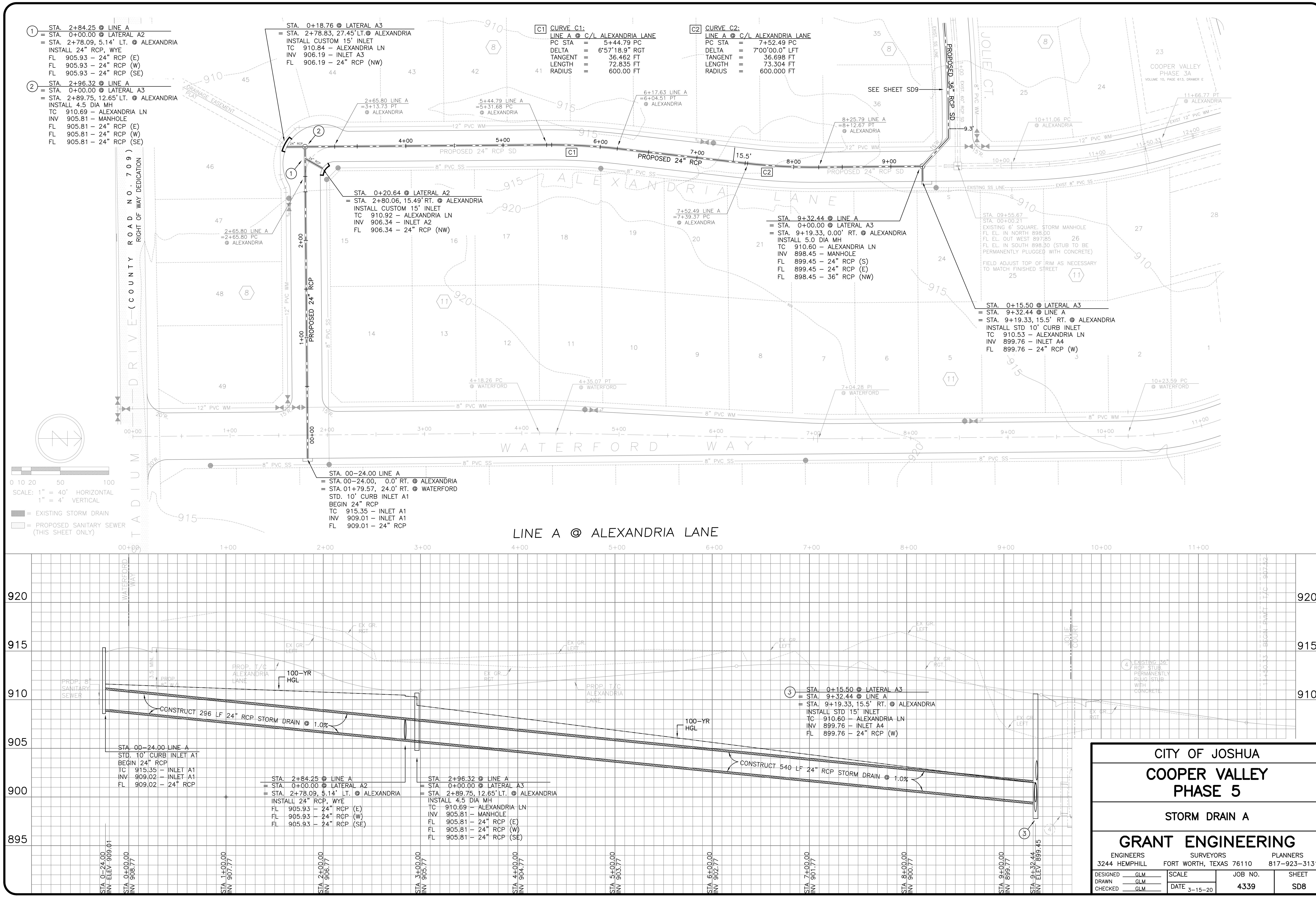
DOWNSTREAM			UPSTREAM		LENGTH	BARRELS		STORM DRAIN GEOMETRY			n	Sf	So	FLOW REGIME	HGL @d/s	HGL @u/s	VEL (FULL)	VEL (FULL)	Hv @d/s	Hv @u/s	MINOR LOSS CASE	Kj	Kj @V1	Kj @V2	Kj*Hv	MINOR HL	DESIGN HGL	INVERT ELEV		CRITICAL ELEV		
STA	FL ELEV	HYDRAULIC STRUCTURE	STA	FL ELEV		HYDRAULIC STRUCTURE	PIPE DIA.	BOX SPAN	SIZE RISE	d/s																		u/s				
ft	ft		ft	ft			in	ft	ft	ft/ft																		ft/ft				
1		—	2	ft	—	3	NO.	TYPE	19	19	20	21	—	ft	22	fps	fps	24	25	26	27	ft	28	ft	ft	29	ft	30	ft	32	33	34
LINE A - ALEXANDRIA TO JOLLIE / DETENTION POND																																
2+84.25	905.93	24" WYE	-0+24.00	909.02	INLET	308.25	1	PIPE	24	0.00	0.00	0.013	0.00369	0.01000	FULL	910.47	911.61	4.375	0.000	0.297	0.000	vi	1.250	1.250	0.000	0.372	0.372	911.978	905.933	909.015	915.350	
2+96.32	905.81	4.5" STD MH	2+84.25	905.93	24" WYE	12.07	1	PIPE	24	0.00	0.00	0.013	0.00713	0.01002	FULL	910.28	910.37	6.081	0.000	0.574	0.761	v	0.750	1.000	0.750	0.571	0.100	910.469	905.812	905.933	910.920	
9+32.44	899.45	5" STD MH	2+96.32	905.81	4.5" STD MH	636.12	1	PIPE	24	0.00	0.00	0.013	0.01252	0.01000	FULL	901.45	909.42	8.059	6.081	1.008	0.574	iv	0.250	1.000	0.250	0.144	0.865	910.283	899.451	905.812	910.690	
1+70.90	897.99	30" — 1/4 BEND	9+32.44	898.45	5" STD MH	38.46	1	PIPE	36	0.00	0.00	0.013	0.00181	0.01219	MIXED	901.28	901.33	---	---	---	---	iv	---	---	---	---	0.100	901.428	897.985	898.454	910.600	
11+27.33	896.09	5" STD MH	9+70.90	897.99	30" — 1/4 BEND	156.43	1	PIPE	36	0.00	0.00	0.013	0.00181	0.01213	FULL	900.89	901.18	4.015	4.015	0.250	0.250	v	0.750	1.000	0.750	0.188	0.100	901.277	896.087	897.985	---	
11+58.45	895.71	OUTLET	11+27.33	896.09	5" STD MH	31.12	1	PIPE	36	0.00	0.00	0.013	0.00181	0.01211	FULL	900.65	900.71	4.015	4.015	0.250	0.250	iva	0.250	1.000	0.250	0.063	0.188	900.894	895.710	896.087	905.860	
LATERAL A2 @ LINE A																																
0+00.00	905.93	24" WYE	0+20.64	906.35	INLET	20.64	1	PIPE	24	0.00	0.00	0.013	0.00069	0.02001	FULL	910.47	910.48	1.891	0.000	0.056	0.000	vi	1.250	1.250	0.000	0.069	0.100	910.583	905.933	906.346	910.690	
LATERAL A3 @ LINE A																																
0+00.00	905.81	4.5" STD MH	0+18.76	906.19	INLET	18.76	1	PIPE	24	0.00	0.00	0.013	0.00081	0.01999	FULL	910.28	910.30	2.045	0.000	0.065	0.000	vi	1.250	1.250	0.000	0.081	0.100	910.398	905.812	906.187	910.690	
LATERAL A4 @ LINE A																																
0+00.00	899.45	5" STD MH	0+15.50	899.76	INLET	15.50	1	PIPE	24	0.00	0.00	0.013	0.00033	0.02000	PART.	901.43	901.43	---	---	---	---	vi	---	---	---	---	0.100	901.528	899.451	899.761	910.600	
LINE B - **STA 3+80 TO 4+90 JOLLIE CT																																
4+88.54	898.25	24" @ 6x3' RCBx	3+49.71	898.94	24" WYE	138.83	1	PIPE	24	0.00	0.00	0	0.00000	0.00500	MIXED	900.84	900.84	---	---	---	---	v	---	---	---	---	0.100	900.943	898.245	898.939	902.970	
5+38.50	896.67	OUTLET	4+88.54	898.03	24" @ 6x3' RCBx	49.96	1	BOX	0	6.00	3.00	0.013	0.00237	0.02722	MIXED	900.65	900.74	---	---	---	---	v	---	---	---	---	0.100	900.843	896.670	898.030	904.120	
LATERAL B1 @ LINE B																																
0+00.00	898.94	24" WYE	0+17.33	899.29	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00222	0.02002	MIXED	900.94	900.94	---	---	---	---	vi	---	---	---	---	0.100	901.044	898.939	899.286	902.970	
LATERAL B2 @ LINE B																																
0+00.00	898.94	4.5" STD MH	0+17.33	899.29	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00081	0.02002	MIXED	900.94	900.94	---	---	---	---	vi	---	---	---	---	0.100	901.044	898.939	899.286	910.690	
EXISTING LINE C - JOLLIE; ALEXANDRIA; TO WATERFORD																																
10+30.55	903.17	36x18" WYE	10+31.55	903.17	u/s 36" RCP	1.00	1	PIPE	36	0.00	0.00	0.013	0.00452	0.00300	FULL	911.36	911.36	6.342	0.000	0.625	0.000	x	0.000	0.000	0.000	0.000	0.000	911.360	903.167	903.170	912.200	
10+00.00	903.13	5" STD MH	10+30.55	903.17	36x18" WYE	30.55	1	PIPE	36	0.00	0.00	0.013	0.00752	0.00421	FULL	910.55	910.78	8.184	6.342	1.040	0.625	v	0.750	1.000	0.750	0.468	0.572	911.355	903.130	903.167	912.200	
7+38.50	901.83	36x18" WYE	10+00.00	903.13	5" STD MH	261.50	1	PIPE	36	0.00	0.00	0.013	0.00752	0.00917	FULL	907.81	909.77	8.184	8.184	1.040	1.040	iva	0.250	1.000	0.250	0.260	0.780	910.554	901.830	903.130	911.120	
7+13.09	901.70	7" MH	7+38.50	901.83	36x18" WYE	25.41	1	PIPE	36	0.00	0.00	0.013	0.01008	0.00512	FULL	906.94	907.19	9.474	8.184	1.394	1.040	v	0.750	1.000	0.750	0.780	0.614	907.807	901.700	901.830	911.130	
6+61.09	899.96	48" WYE	7+13.09	900.22	7" MH	52.00	1	PIPE	48	0.00	0.00	0.013	0.01305	0.00500	FULL	903.96	904.64	13.575	9.474	2.647	1.394	iva	0.250	1.000	0.250	0.348	2.298	906.937	899.960	900.220	911.130	
6+43.06	899.27	48x60 Collar	6+61.09	899.96	48" WYE	18.03	1	PIPE	48	0.00	0.00	0.013	0.01305	0.03816	PART.	903.16	903.16	---	---	---	---	v	---	---	---	---	0.100	903.255	899.272	899.960	907.130	
3+88.64	898.00	7" RCBx	6+43.06	899.87	48x60 Collar	254.42	1	PIPE	60	0.00	0.00	0.013	0.00397	0.00735	PART.	901.19	903.06	---	---	---	---	E_1,2	---	---	---	---	0.100	903.155	898.000	899.870	907.130	
1+86.41	896.00	60"—1/4 BEND	3+88.64	897.85	7" RCBx	202.23	1	PIPE	60	0.00	0.00	0.013	0.00397	0.00915	PART.	900.75	900.81	---	---	---	---	iva	---	---	---	---	0.100	900.912	896.000	897.850	910.505	
1+45.25	895.71	OUTLET	1+86.41	896.00	60"—1/4 BEND	41.16	1	PIPE	60	0.00	0.00	0.013	0.00397	0.00705	PART.	900.65	900.65	---	---	---	---	v	---	---	---	---	0.100	900.750	895.710	896.000	905.800	
LATERAL C2 @ WATERFORD & LIGHTHOUSE																																
0+00.00	903.17	36x18" WYE	0+17.33	904.64	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00943	0.08500	FULL	910.55	910.72	6.993	0.000	0.759	0.000	vl	1.250	1.250	0.000	0.949	0.949	911.667	903.167	904.640	912.120	

TABLE 1: DESIGN HGL @ 25-yr

DOWNSTREAM			UPSTREAM			LENGTH	DRAINAGE AREA										100-yr BY- PASS	100-yr DESIGN FLOW			
STA	FL ELEV	HYDRAULIC STRUCTURE	STA	FL ELEV	HYDRAULIC STRUCTURE		INCREMENTAL		TOTAL AREA	INCREMENTAL C	C*A	TOTAL C*A	INLET TIME	Tc @u/s	VEL. fps	TRAVEL TIME min			Tc @d/s	i 100-yr in/hr	Q 100-YR cfs
ft	ft		ft	ft			ID	AREA	ac	ac	C	C*A	ac	min					min	100-yr	
1	—	—	2	—	—	3	4	5	6	7	8	9	10	10a	—	11	12	—	—	17	18
LINE A - ALEXANDRIA TO JOLLIE / DETENTION POND																					
2+84.25	905.93	24" WYE	-0+24.00	909.02	INLET	308.25	D3-5	2.89	2.890	0.60	1.734	1.734	15.00	15.00	3.54	1.45	16.45	6.417	11.13	0.00	11.13
2+96.32	905.81	4.5" STD MH	2+84.25	905.93	24" WYE	12.07	D2	1.249	4.139	0.60	0.749	2.483	15.00	16.45	4.87	0.04	16.49	6.166	15.31	0.00	15.31
9+32.44	899.45	5" STD MH	2+96.32	905.81	4.5" STD MH	636.12	D1	1.351	5.490	0.60	0.811	3.294	15.00	16.49	6.46	1.64	18.13	6.159	20.29	0.00	20.29
9+70.90	897.99	30" - 1/4 BEND	9+32.44	898.45	5" STD MH	38.46	D6	0.867	6.357	0.60	0.520	3.814	15.00	18.13	3.18	0.20	18.33	5.901	22.51	0.00	22.51
11+27.33	896.09	5" STD MH	9+70.90	897.99	30" - 1/4 BEND	156.43	---	0	6.357	0.00	0.000	3.814	---	18.33	3.18	0.82	19.15	5.872	22.40	0.00	22.51
11+58.45	895.71	OUTLET	11+27.33	896.09	5" STD MH	31.12	---	0	6.357	0.00	0.000	3.814	---	19.15	3.18	0.16	19.32	5.753	21.94	0.00	22.51
LATERAL A2 @ LINE A																					
0+00.00	905.93	24" WYE	0+20.64	906.35	INLET	20.64	D2	1.249	1.249	0.60	0.749	0.749	15.00	15.00	1.53	0.22	15.22	6.417	4.81	0.00	4.81
LATERAL A3 @ LINE A																					
0+00.00	905.81	4.5" STD MH	0+18.76	906.19	INLET	18.76	D1	1.351	1.351	0.60	0.811	0.811	15.00	15.00	1.66	0.19	15.19	6.417	5.20	0.00	5.20
LATERAL A4 @ LINE A																					
0+00.00	899.45	5" STD MH	0+15.50	899.76	INLET	15.50	D6	0.867	0.867	0.60	0.520	0.520	15.00	15.00	1.06	0.24	15.24	6.417	3.34	0.00	3.34
LINE B - STA 3+80 TO 4+90 JOLLIE CT																					
4+88.54	898.25	24" @ 6x3' RCBx	3+49.71	898.94	24" WYE	138.83	B5b-6	3.169	3.169	0.60	1.901	1.901	15.00	15.00	3.88	0.60	15.60	6.417	12.20	0.00	12.20
5+38.50	896.67	OUTLET	4+88.54	898.03	24" @ 6x3' RCBx	49.96	B1-5a	21.157	24.326	0.60	12.694	14.596	21.09	21.09	4.45	0.19	21.28	5.494	80.18	0.00	80.18
LATERAL B1 @ LINE B																					
0+00.00	898.94	24" WYE	0+17.33	899.29	INLET	17.33	B5b	2.239	2.239	0.60	1.343	1.343	15.00	15.00	2.74	0.11	15.11	6.417	8.62	0.00	8.62
LATERAL B2 @ LINE B																					
0+00.00	898.94	4.5" STD MH	0+17.33	899.29	INLET	17.33	D1	1.351	1.351	0.60	0.811	0.811	15.00	15.00	1.66	0.17	15.17	6.417	5.20	0.00	5.20
EXISTING LINE C - JOLLIE; ALEXANDRIA; TO WATERFORD																					
10+30.55	903.17	36x18" WYE	10+31.55	903.17	u/s 36" RCP	1.00	A1-4	15.269	15.269	0.47	7.161	7.161	25.55	25.55	5.05	0.00	25.55	4.985	35.70	0.00	35.70
10+00.00	903.13	5" STD MH	10+30.55	903.17	36x18" WYE	30.55	A6	5.909	21.178	0.35	2.080	9.241	15.00	25.55	6.52	0.08	25.63	4.985	46.07	0.00	46.07
7+38.50	901.83	36x18" WYE	10+00.00	903.13	5" STD MH	261.50	---	---	21.178	---	---	9.241	---	25.63	6.52	0.67	26.30	4.977	45.99	0.00	46.07
7+13.09	901.70	7" MH	7+38.50	901.83	36x18" WYE	25.41	A5&7	2.633	23.811	0.60	1.580	10.821	15.00	26.30	7.52	0.06	26.36	4.910	53.13	0.00	53.13
6+61.09	899.96	48" WYE	7+13.09	900.22	7" MH	52.00	A8-15	28.67	52.481	0.55	15.711	26.532	22.63	26.36	10.36	0.08	26.44	4.905	130.13	0.00	130.13
6+43.06	899.27	48x60 Collar	6+61.09	899.96	48" WYE	18.03	---	---	52.481	---	---	26.532	---	26.44	10.36	0.03	26.47	4.896	129.91	0.00	130.13
3+88.64	898.00	7' RCBx	6+43.06	899.87	48x60 Collar	254.42	---	---	52.481	---	---	26.532	---	26.47	6.63	0.64	27.11	4.894	129.84	0.00	130.13
1+86.41	896.00	60"-1/4 BEND	3+88.64	897.85	7' RCBx	202.23	---	---	52.481	---	---	26.532	---	27.11	6.63	0.51	27.62	4.832	128.20	0.00	130.13
1+45.25	895.71	OUTLET	1+86.41	896.00	60"-1/4 BEND	41.16	---	---	52.481	---	---	26.532	---	27.62	6.63	0.10	27.72	4.784	126.93	0.00	130.13
LATERAL C2 @ WATERFORD & LIGHTHOUSE																					
0+00.00	903.17	36x18" WYE	0+17.33	904.64	INLET	17.33	A6	5.909	5.909	0.47	2.771	2.771	15.00	15.00	5.66	0.05	15.05	6.417	17.78	0.00	17.78

TABLE 1: DESIGN HGL @ 25-yr (Continued)

DOWNSTREAM			UPSTREAM			LENGTH	BARRELS		STORM DRAIN GEOMETRY			n	Sf	So	FLOW REGIME	HGL @d/s	HGL @u/s	VEL (FULL)	VEL (FULL)	Hv @d/s	Hv @u/s	MINOR LOSS CASE	Kj	Kj @V1	Kj @V2	Kj*Hv	MINOR HL	DESIGN HGL	INVERT		CRITICAL ELEV
STA	FL ELEV	HYDRAULIC STRUCTURE	STA	FL ELEV	HYDRAULIC STRUCTURE				PIPE DIA.	BOX SIZE																			d/s	SPAN	
ft	ft		ft	ft			ft	NO.	TYPE	in	ft	ft	ft/ft	ft/ft	—	ft	fps	fps	fps	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
1	—	—	2	—	—	3	—	—	19a	19b	19c	20	21	—	—	22	23	24	25	26	27	ft	28	ft	ft	29	30	31	32	33	34
LINE A - ALEXANDRIA TO JOLLIE / DETENTION POND																															
2+84.25	905.93	24" WYE	-0+24.00	909.02	INLET	308.25	1	PIPE	24	0.00	0.00	0.013	0.00242	0.01000	PART. 907.49	910.01	---	---	---	---	vi	---	---	---	---	0.100	910.105	905.933	909.015	915.350	
2+96.32	905.81	4.5" STD MH	2+84.25	905.93	24" WYE	12.07	1	PIPE	24	0.00	0.00	0.013	0.00458	0.01002	PART. 907.39	907.39	---	---	---	---	v	---	---	---	---	0.100	907.491	905.812	905.933	910.920	
9+32.44	899.45	5" STD MH	2+96.32	905.81	4.5" STD MH	636.12	1	PIPE	24	0.00	0.00	0.013	0.00804	0.01000	PART. 900.93	907.29	---	---	---	---	iv	---	---	---	---	0.100	907.391	899.451	905.812	910.690	
9+70.90	897.99	30" - 1/4 BEND	9+32.44	898.45	5" STD MH	38.46	1	PIPE	36	0.00	0.00	0.013	0.00114	0.01219	PART. 899.28	899.59	---	---	---	---	iv	---	---	---	---	0.100	899.692	897.985	898.454	910.600	
11+27.33	896.09	5" STD MH	9+70.90	897.99	30" - 1/4 BEND	156.43	1	PIPE	36	0.00	0.00	0.013	0.00114	0.01213	MIXED 899.17	899.18	---	---	---	---	v	---	---	---	---	0.100	899.283	896.087	897.985	---	
11+58.45	895.71	OUTLET	11+27.33	896.09	5" STD MH	31.12	1	PIPE	36	0.00	0.00	0.013	0.00114	0.01211	MIXED 899.04	899.07	---	---	---	---	iva	---	---	---	---	0.100	899.174	895.710	896.087	905.860	
LATERAL A2 @ LINE A																															
0+00.00	905.93	24" WYE	0+20.64	906.35	INLET	20.64	1	PIPE	24	0.00	0.00	0.013	0.00045	0.02001	PART. 907.49	907.49	---	---	---	---	vi	---	---	---	---	0.100	907.591	905.933	906.346	910.690	
LATERAL A3 @ LINE A																															
0+00.00	905.81	4.5" STD MH	0+18.76	906.19	INLET	18.76	1	PIPE	24	0.00	0.00	0.013	0.00053	0.01999	PART. 907.39	907.39	---	---	---	---	vi	---	---	---	---	0.100	907.491	905.812	906.187	910.690	
LATERAL A4 @ LINE A																															
0+00.00	899.45	5" STD MH	0+15.50	899.76	INLET	15.50	1	PIPE	24	0.00	0.00	0.013	0.00022	0.02000	PART. 899.89	900.20	---	---	---	---	vi	---	---	---	---	0.100	900.297	899.451	899.761	910.600	
LINE B - STA 3+80 TO 4+90 JOLLIE CT																															
4+88.54	898.25	24" @ 6x3" RCBx	3+49.71	898.94	24" WYE	138.83	1	PIPE	24	0.00	0.00	0	0.00000	0.00500	PART. 899.50	899.50	---	---	---	---	v	---	---	---	---	0.100	899.600	898.245	898.939	902.970	
5+38.50	896.67	OUTLET	4+88.54	898.03	24" @ 6x3" RCBx	49.96	1	BOX	0	6.00	3.00	0.013	0.00152	0.02722	PART. 899.40	899.40	---	---	---	---	v	---	---	---	---	0.100	899.500	896.670	898.030	904.120	
LATERAL B1 @ LINE B																															
0+00.00	898.94	24" WYE	0+17.33	899.29	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00145	0.02002	PART. 899.65	899.99	---	---	---	---	vi	---	---	---	---	0.100	900.095	898.939	899.286	902.970	
LATERAL B2 @ LINE B																															
0+00.00	898.94	4.5" STD MH	0+17.33	899.29	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00053	0.02002	PART. 899.60	899.83	---	---	---	---	vi	---	---	---	---	0.100	899.931	898.939	899.286	910.690	
EXISTING LINE C - JOLLIE; ALEXANDRIA; TO WATERFORD																															
10+30.55	903.17	36x18" WYE	10+31.55	903.17	u/s 36" RCP	1.00	1	PIPE	36	0.00	0.00	0.013	0.00287	0.00300	FULL 908.63	908.63	5.051	0.000	0.396	0.000	x	0.000	0.000	0.000	0.000	0.000	908.630	903.167	903.170	912.200	
10+30.55	903.13	5" STD MH	10+30.55	903.17	36x18" WYE	30.55	1	PIPE	36	0.00	0.00	0.013	0.00477	0.00121	FULL 908.12	908.26	6.517	5.051	0.660	0.396	v	0.750	1.000	0.750	0.297	0.362	908.627	903.130	903.167	912.200	
7+38.50	901.83	36x18" WYE	10+00.00	903.13	5" STD MH	261.50	1	PIPE	36	0.00	0.00	0.013	0.00477	0.00497	FULL 906.38	907.62	6.517	6.517	0.660	0.660	iva	0.250	1.000	0.250	0.165	0.495	908.119	901.830	903.130	911.120	
7+13.09	901.70	7" MH	7+38.50	901.83	36x18" WYE	25.41	1	PIPE	36	0.00	0.00	0.013	0.00635	0.00512	FULL 905.83	905.99	7.517	6.517	0.877	0.660	v	0.750	1.000	0.750	0.495	0.383	906.376	901.700	901.830	911.130	
6+61.09	899.96	48" WYE	7+13.09	900.22	7" MH	52.00	1	PIPE	48	0.00	0.00	0.013	0.00821	0.00500	FULL 903.96	904.39	10.355	7.517	1.665	0.877	iva	0.250	1.000	0.250	0.219	1.446	905.833	899.960	900.220	911.130	
6+43.06	899.27	48x60 Collar	6+61.09	899.96	48" WYE	18.03	1	PIPE	48	0.00	0.00	0.013	0.00821	0.03816	PART. 902.71	902.71	---	---	---	---	v	---	---	---	---	0.100	902.812	899.272	899.960	907.130	
3+88.64	898.00	7" RCBx	6+43.06	899.87	48x60 Collar	254.42	1	PIPE	60	0.00	0.00	0.013	0.00250	0.00735	PART. 900.74	902.61	---	---	---	---	E_1.2	---	---	---	---	0.100	902.712	898.000	899.870	907.130	
1+86.41	896.00	60"-1/4 BEND	3+88.64	897.85	7" RCBx	202.23	1	PIPE	60	0.00	0.00	0.013	0.00250	0.00915	PART. 899.14	900.42	---	---	---	---	iva	---	---	---	---	0.100	900.516	896.000	897.850	910.505	
1+45.25	895.71	OUTLET	1+86.41	896.00	60"-1/4 BEND	41.16	1	PIPE	60	0.00	0.00	0.013	0.00250	0.00705	PART. 899.04	899.04	---	---	---	---	v	---	---	---	---	0.100	899.140	895.710	896.000	905.800	
LATERAL C2 @ WATERFORD & LIGHTHOUSE																															
0+00.00	903.17	36x18" WYE	0+17.33	904.64	INLET	17.33	1	PIPE	24	0.00	0.00	0.013	0.00618	0.08500	FULL 910.55	910.66	5.661	0.000	0.498	0.000	vl	1.250	1.250	0.000	0.622	0.622	911.283	903.167	904.640	912.120	



① STA. 2+84.25 @ LINE A
= STA. 0+00.00 @ LATERAL A2
= STA. 2+78.09, 5.14' LT. @ ALEXANDRIA
INSTALL 24" RCP, WYE
FL 905.93 - 24" RCP (E)
FL 905.93 - 24" RCP (W)
FL 905.93 - 24" RCP (SE)

② STA. 2+96.32 @ LINE A
= STA. 0+00.00 @ LATERAL A3
= STA. 2+89.75, 12.65' LT. @ ALEXANDRIA
INSTALL 4.5 DIA MH
TC 910.69 - ALEXANDRIA LN
INV 905.81 - MANHOLE
FL 905.81 - 24" RCP (E)
FL 905.81 - 24" RCP (W)
FL 905.81 - 24" RCP (SE)

STA. 0+18.76 @ LATERAL A3
= STA. 2+78.83, 27.45' LT. @ ALEXANDRIA
INSTALL CUSTOM 15" INLET
TC 910.84 - ALEXANDRIA LN
INV 906.19 - INLET A3
FL 906.19 - 24" RCP (NW)

C1 CURVE C1:
LINE A @ C/L ALEXANDRIA LANE
PC STA = 5+44.79 PC
DELTA = 6°57'18.9" RGT
TANGENT = 36.462 FT
LENGTH = 72.835 FT
RADIUS = 600.00 FT

C2 CURVE C2:
LINE A @ C/L ALEXANDRIA LANE
PC STA = 7+52.49 PC
DELTA = 7°00'00.0" LFT
TANGENT = 36.698 FT
LENGTH = 73.304 FT
RADIUS = 600.000 FT

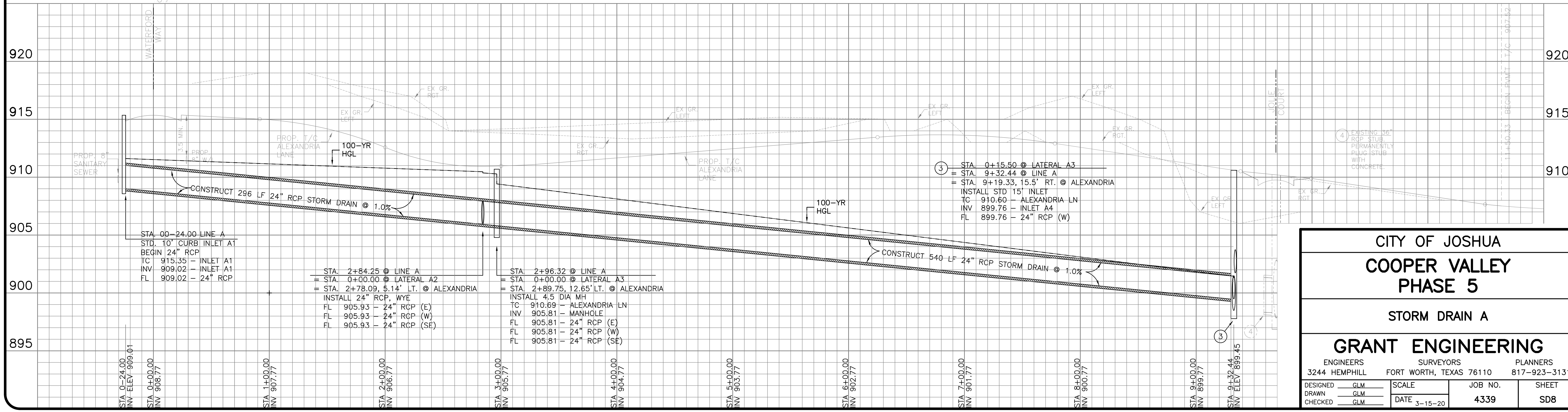
STA. 0+20.64 @ LATERAL A2
= STA. 2+80.06, 15.49' RT. @ ALEXANDRIA
INSTALL CUSTOM 15" INLET
TC 910.92 - ALEXANDRIA LN
INV 906.34 - INLET A2
FL 906.34 - 24" RCP (NW)

STA. 9+32.44 @ LINE A
= STA. 0+00.00 @ LATERAL A3
= STA. 9+19.33, 0.00' RT. @ ALEXANDRIA
INSTALL 5.0 DIA MH
TC 910.60 - ALEXANDRIA LN
INV 898.45 - MANHOLE
FL 899.45 - 24" RCP (S)
FL 899.45 - 24" RCP (E)
FL 899.45 - 36" RCP (NW)

STA. 0+15.50 @ LATERAL A3
= STA. 9+32.44 @ LINE A
= STA. 9+19.33, 15.5' RT. @ ALEXANDRIA
INSTALL STD 10" CURB INLET
TC 910.53 - ALEXANDRIA LN
INV 899.76 - INLET A4
FL 899.76 - 24" RCP (W)

STA. 00-24.00 LINE A
= STA. 00-24.00, 0.0' RT. @ ALEXANDRIA
= STA. 01+79.57, 24.0' RT. @ WATERFORD
STD. 10" CURB INLET A1
BEGIN 24" RCP
TC 915.35 - INLET A1
INV 909.01 - INLET A1
FL 909.01 - 24" RCP

LINE A @ ALEXANDRIA LANE



CITY OF JOSHUA

COOPER VALLEY
PHASE 5

STORM DRAIN A

GRANT ENGINEERING

ENGINEERS
3244 HEMPHILL

SURVEYORS
FORT WORTH, TEXAS 76110

PLANNERS
817-923-3131

DESIGNED
GLM

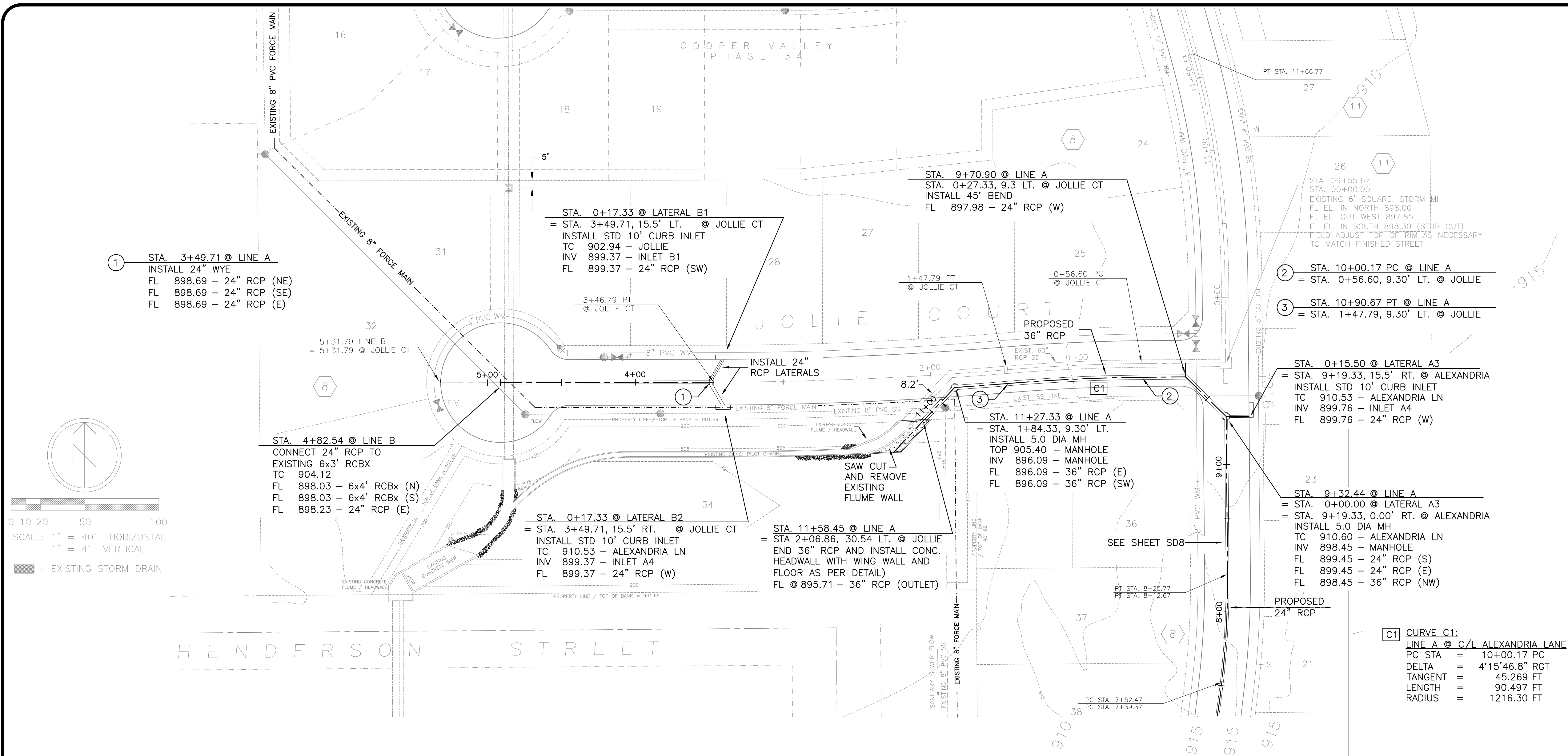
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CHECKED
GLM

SCALE
DATE 3-15-20

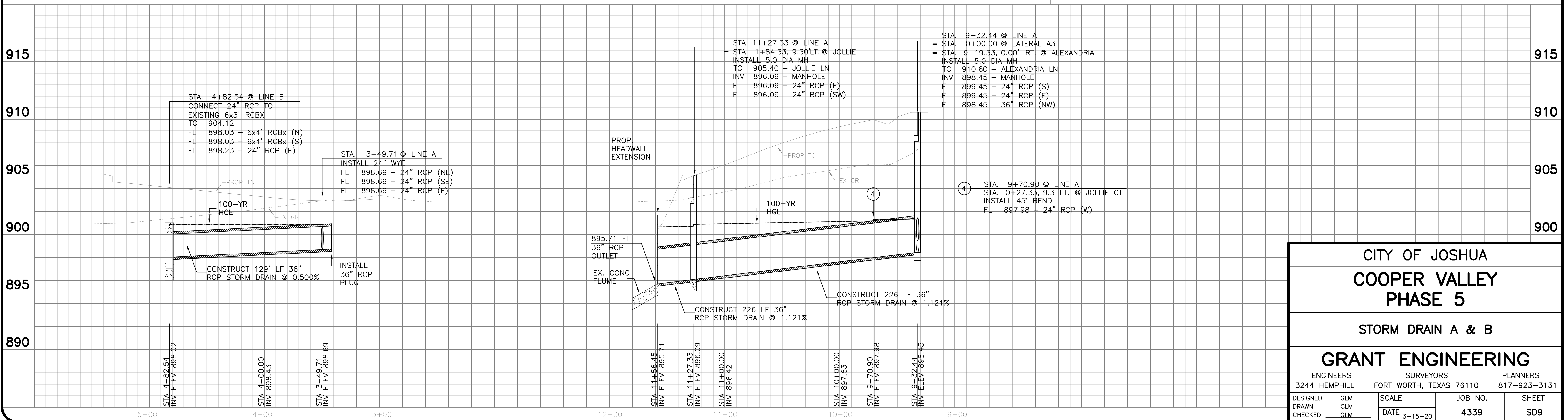
JOB NO.
4339

SHEET
SD8

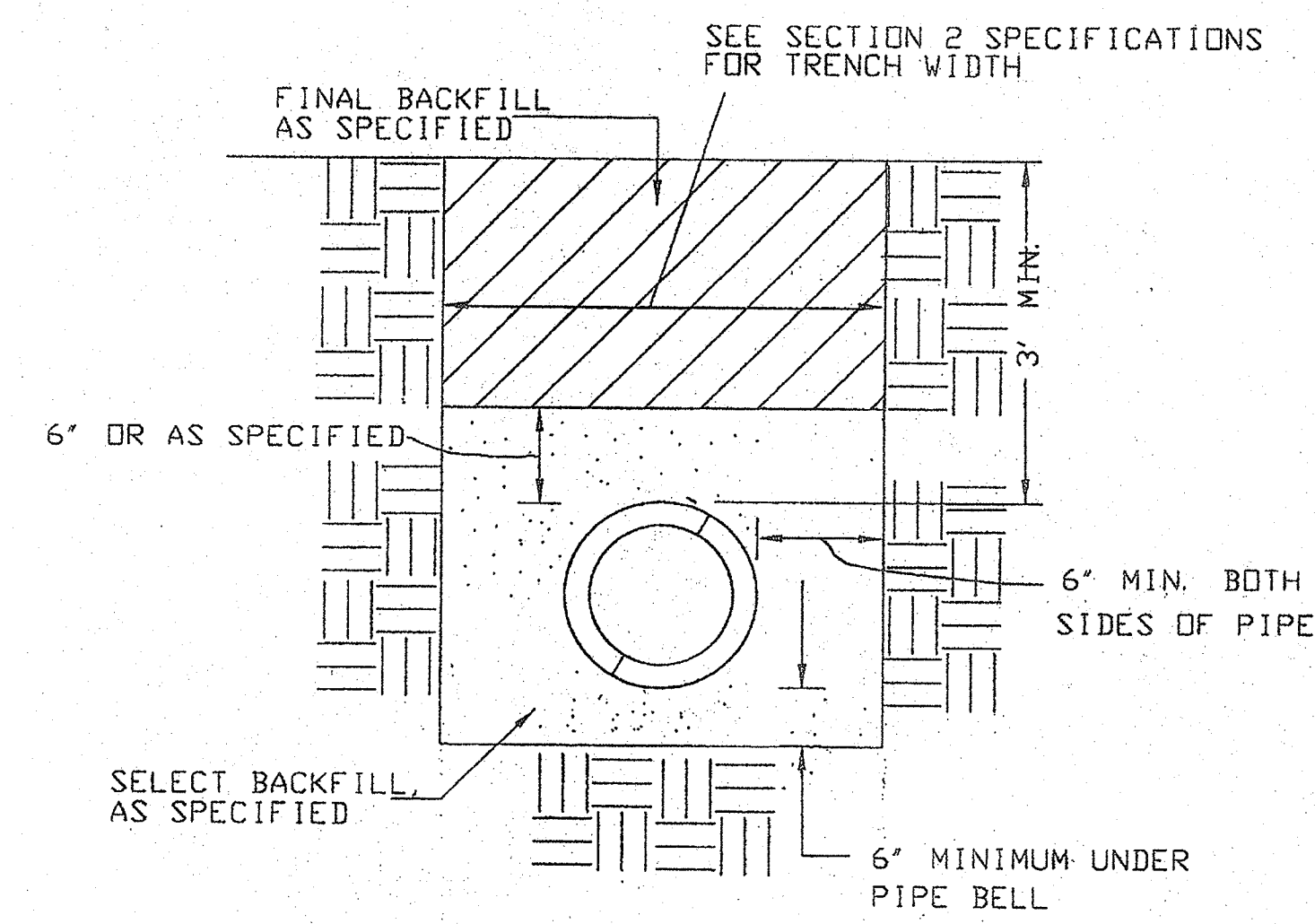


LINE B @ JOLLIE COURT

LINE A @ JOLLIE COURT

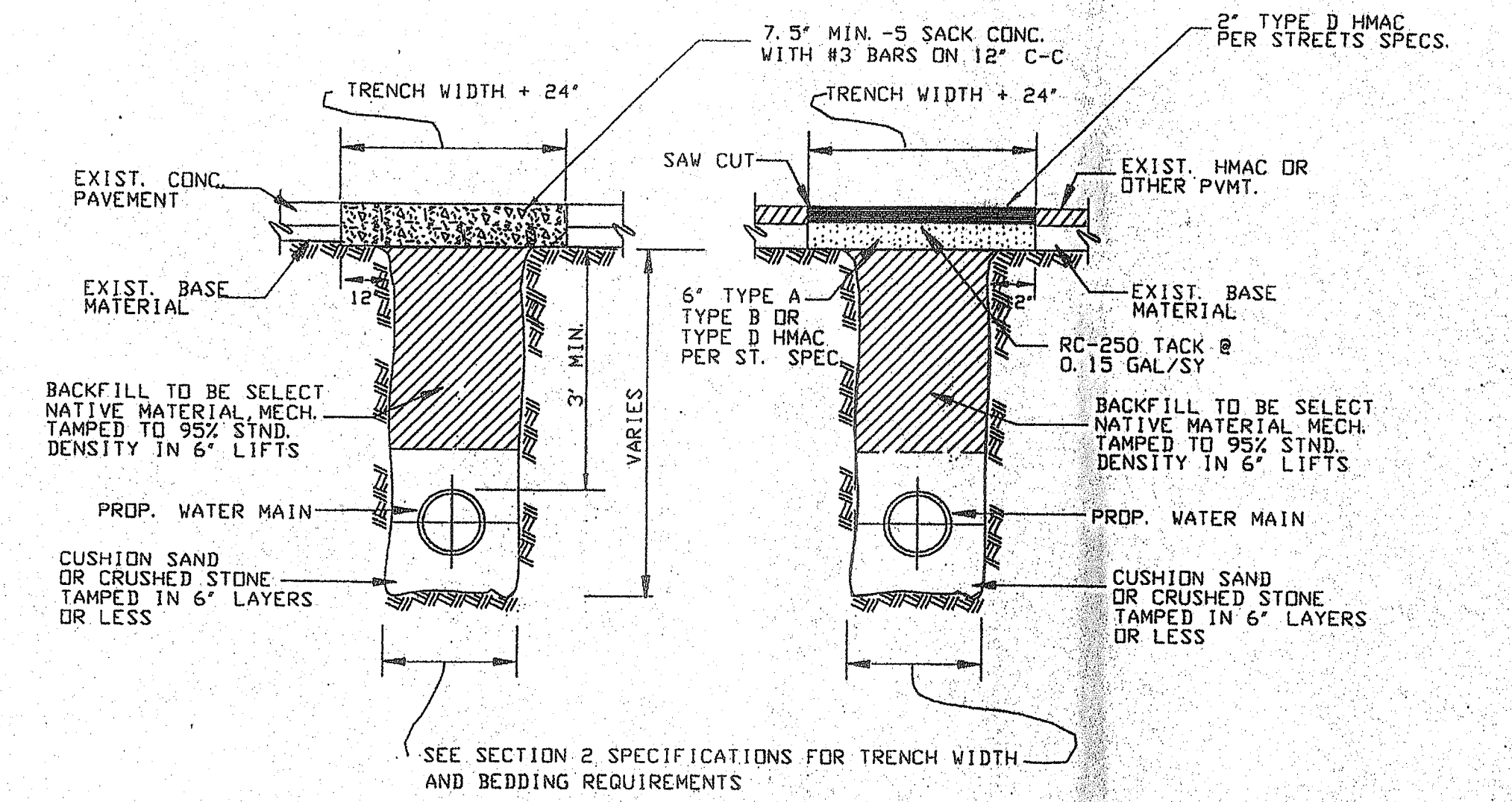


CITY OF JOSHUA			
COOPER VALLEY PHASE 5			
STORM DRAIN A & B			
GRANT ENGINEERING			
ENGINEERS 3244 HEMPHILL	SURVEYORS FORT WORTH, TEXAS 76110	PLANNERS 817-923-3131	
DESIGNED GLM	SCALE DATE 3-15-20	JOB NO. 4339	SHEET SD9



TRENCH & BACKFILL DETAIL

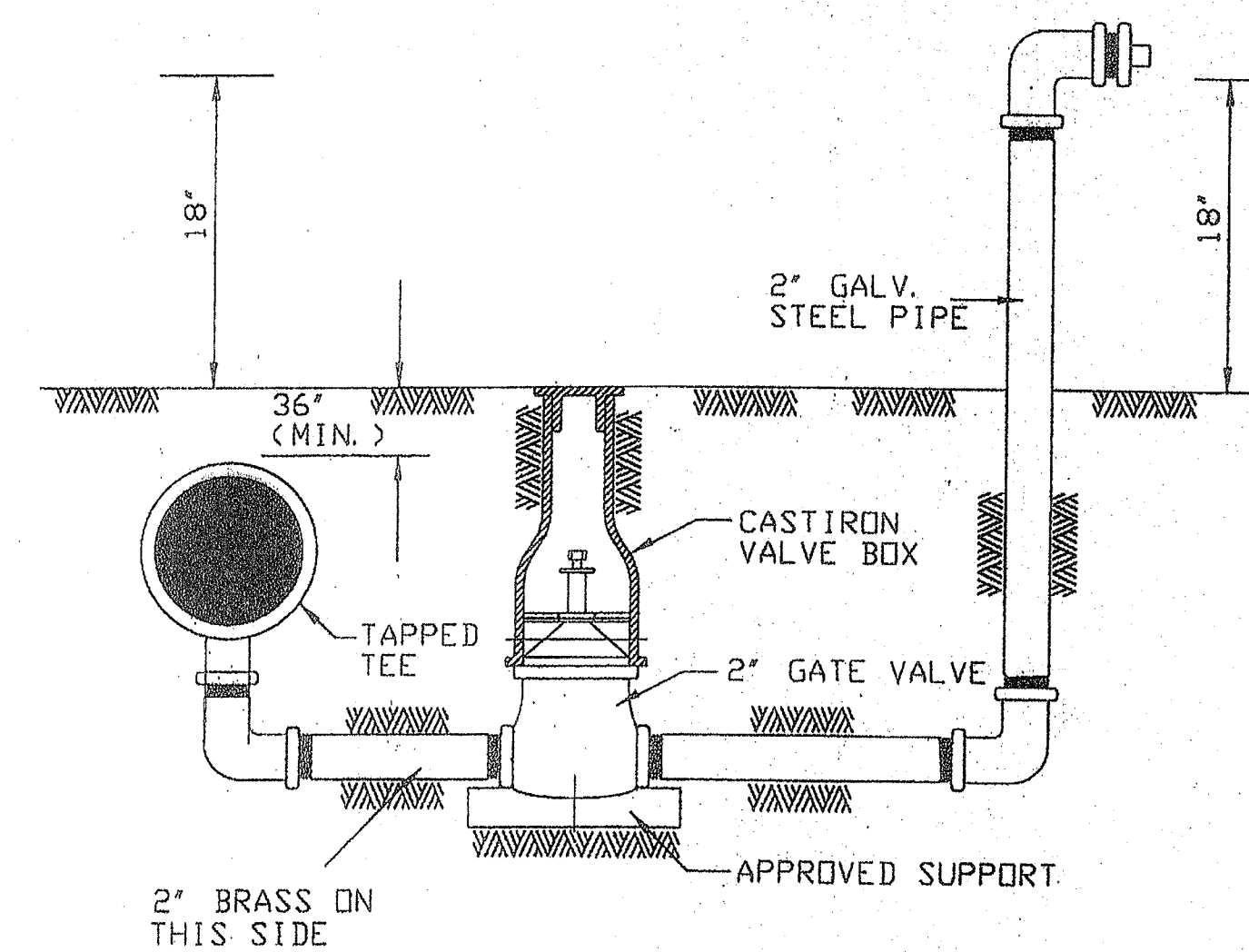
JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 2 OF 13



CONCRETE STREET ASPHALT STREET

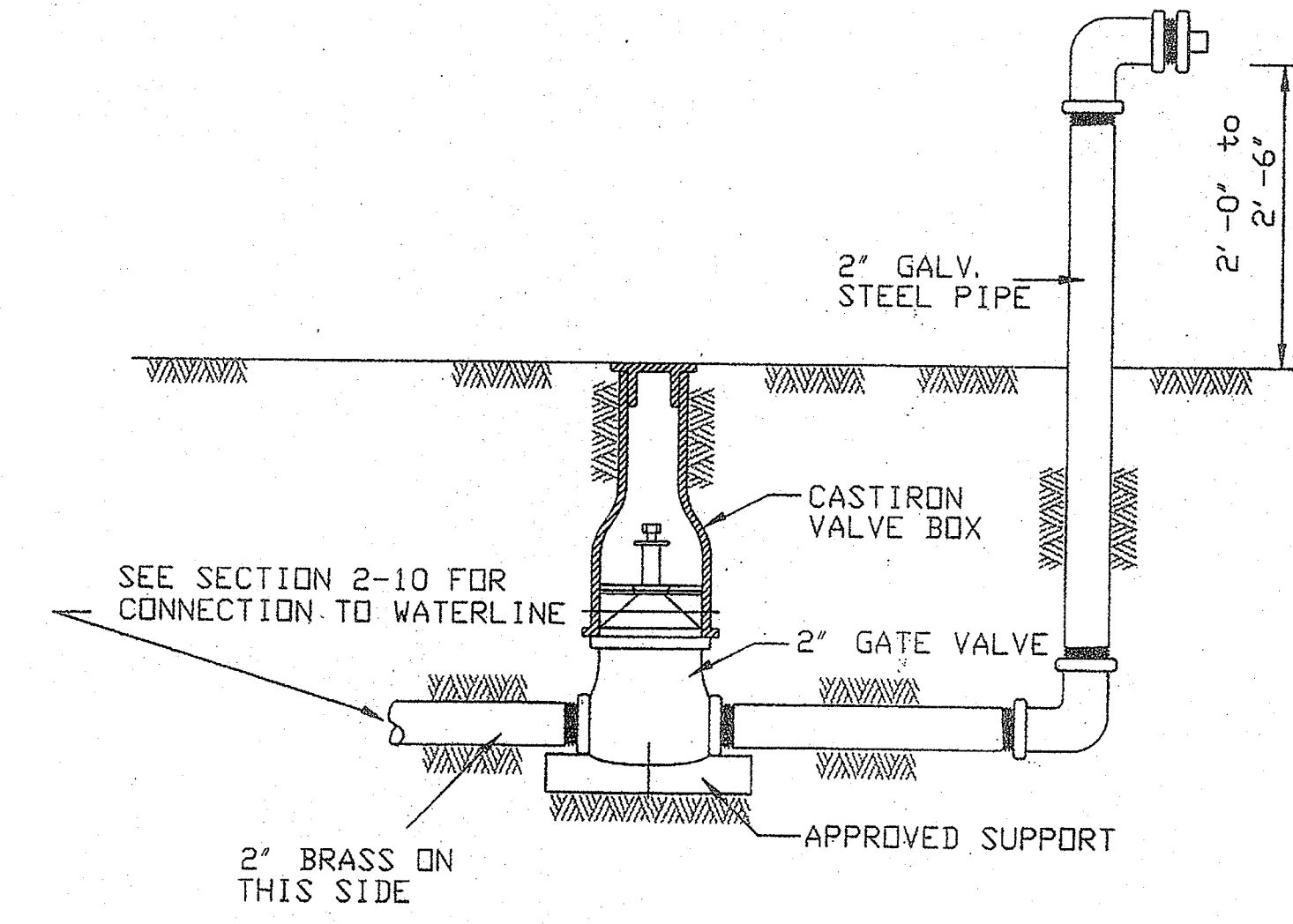
BACKFILL UNDER PROPOSED & EXISTING PAVEMENT

JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 3 OF 13



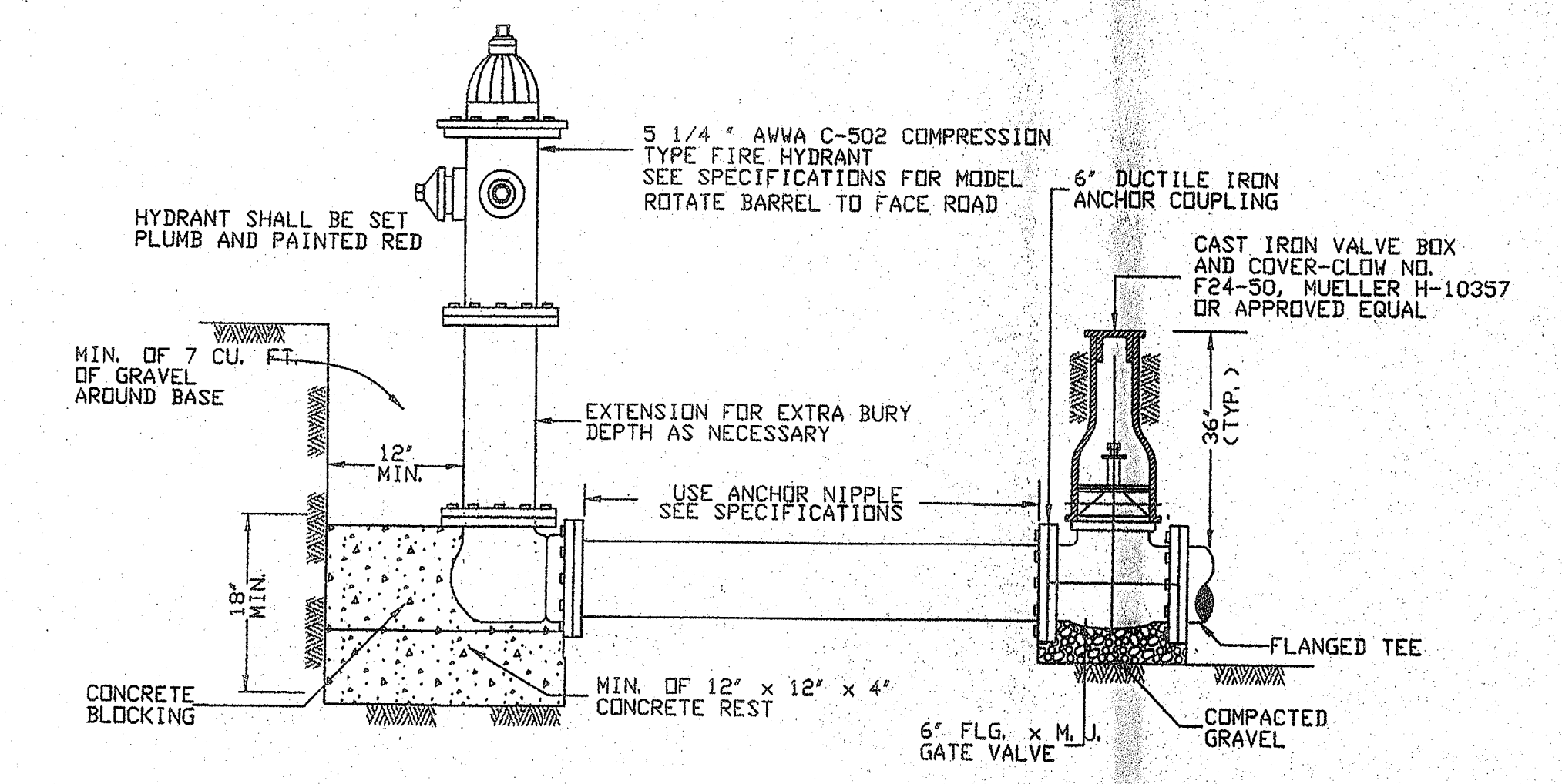
BLOW OFF VALVE

JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 4 OF 13



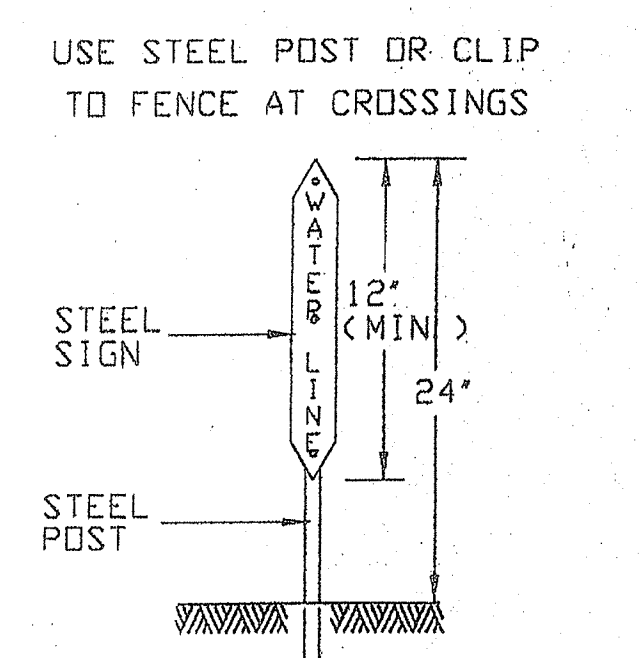
FLUSH VALVE

JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 5 OF 13



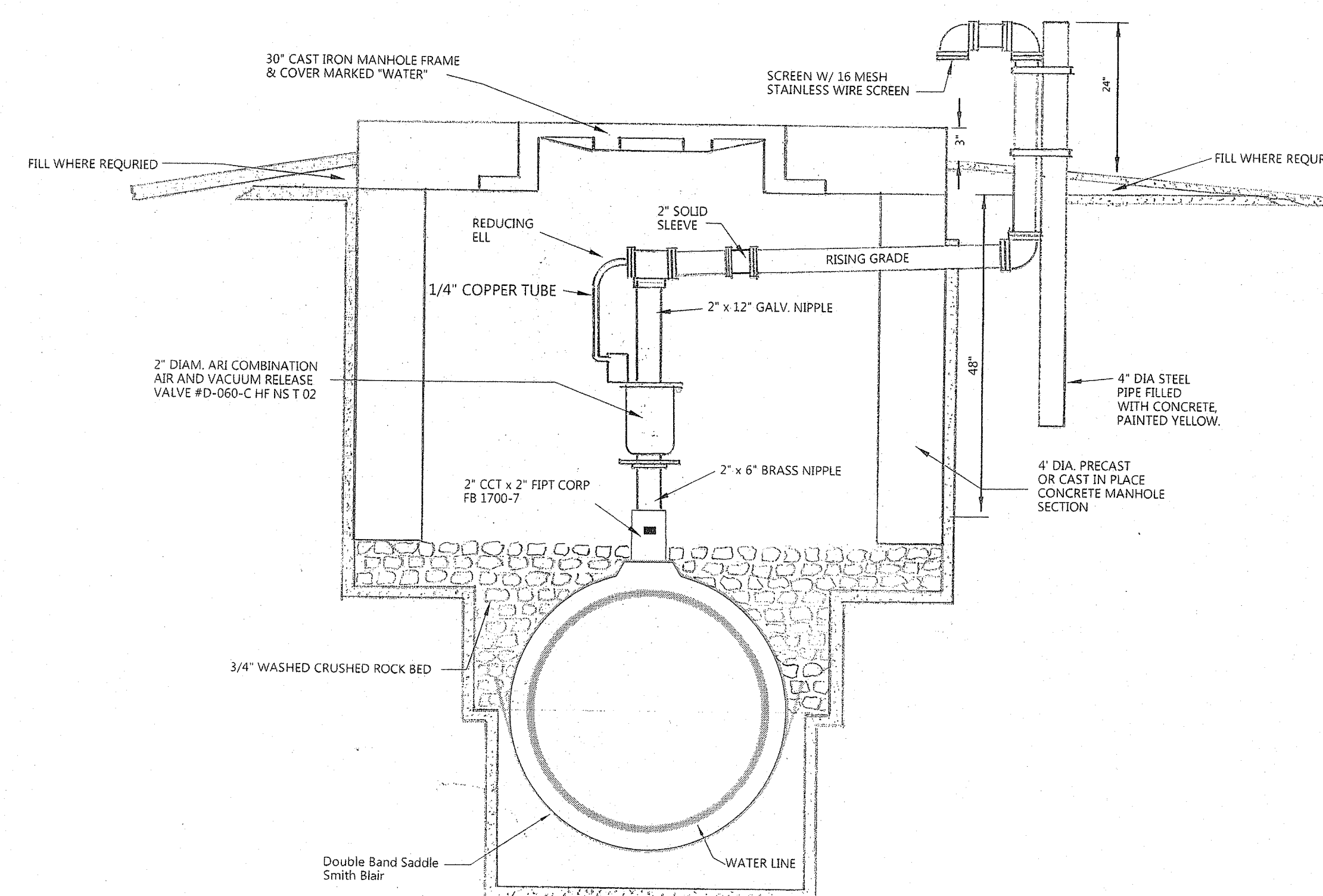
FIRE HYDRANT

JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 6 OF 13



LINE MARKER

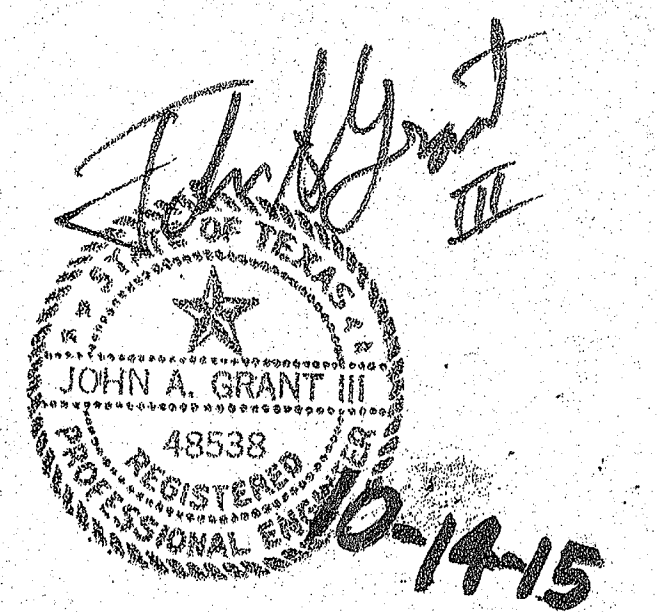
JOHNSON COUNTY RURAL WATER SUPPLY STANDARD DETAIL NOT TO SCALE PAGE 7 OF 13



AIR RELIEF VALVE

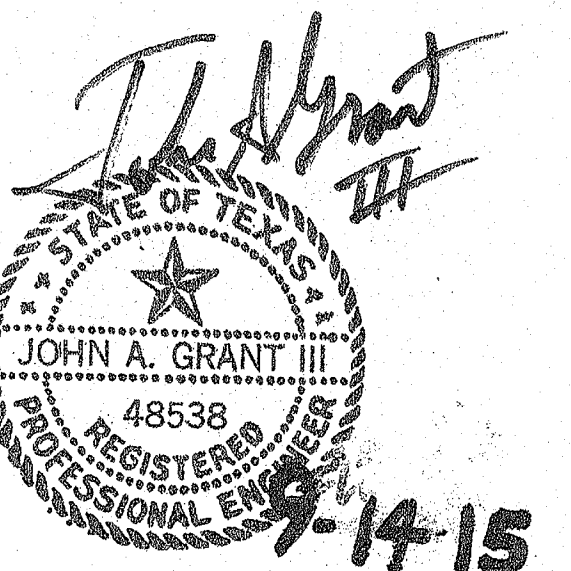
*Note: 3" Air Relief and smaller do not require the 1/4" Copper Tube.

Johnson County Special Utility District Standard Detail Not To Scale Page 1 of 13



NOTE: ALL FITTINGS TO BE CONSTRAINED.

CITY OF JOSHUA			
COOPER VALLEY PHASE 2-B2R			
SEWER AND WATER DETAILS			
GRANT ENGINEERING			
ENGINEERS	SURVEYORS	PLANNERS	
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131	
DESIGNED JAG	SCALE AS NOTED	JOB NO.	SHEET
DRAWN DR	DATE 5-4-07	4339-PH-2B	14 OF
CHECKED JAG			



NOTE: ALL FITTINGS TO BE CONSTRAINED.

CITY OF JOSHUA
COOPER VALLEY
PHASE 2-B2R

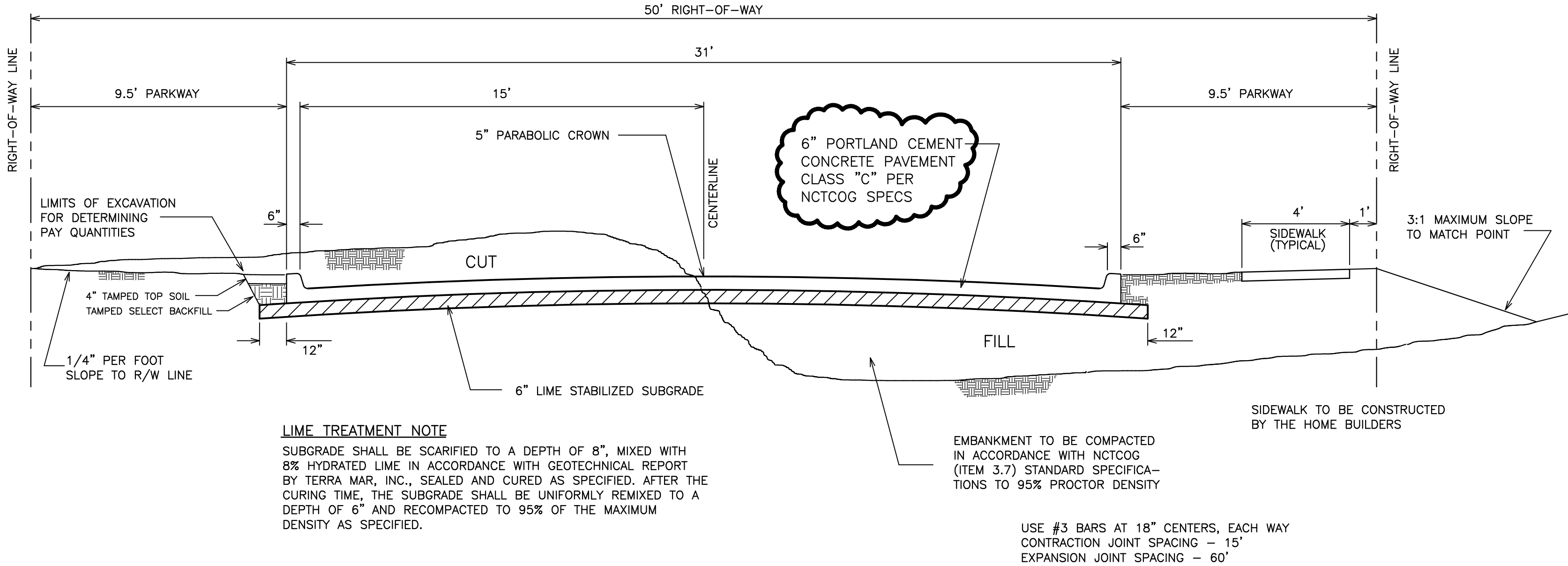
SEWER AND WATER DETAILS

GRANT ENGINEERING

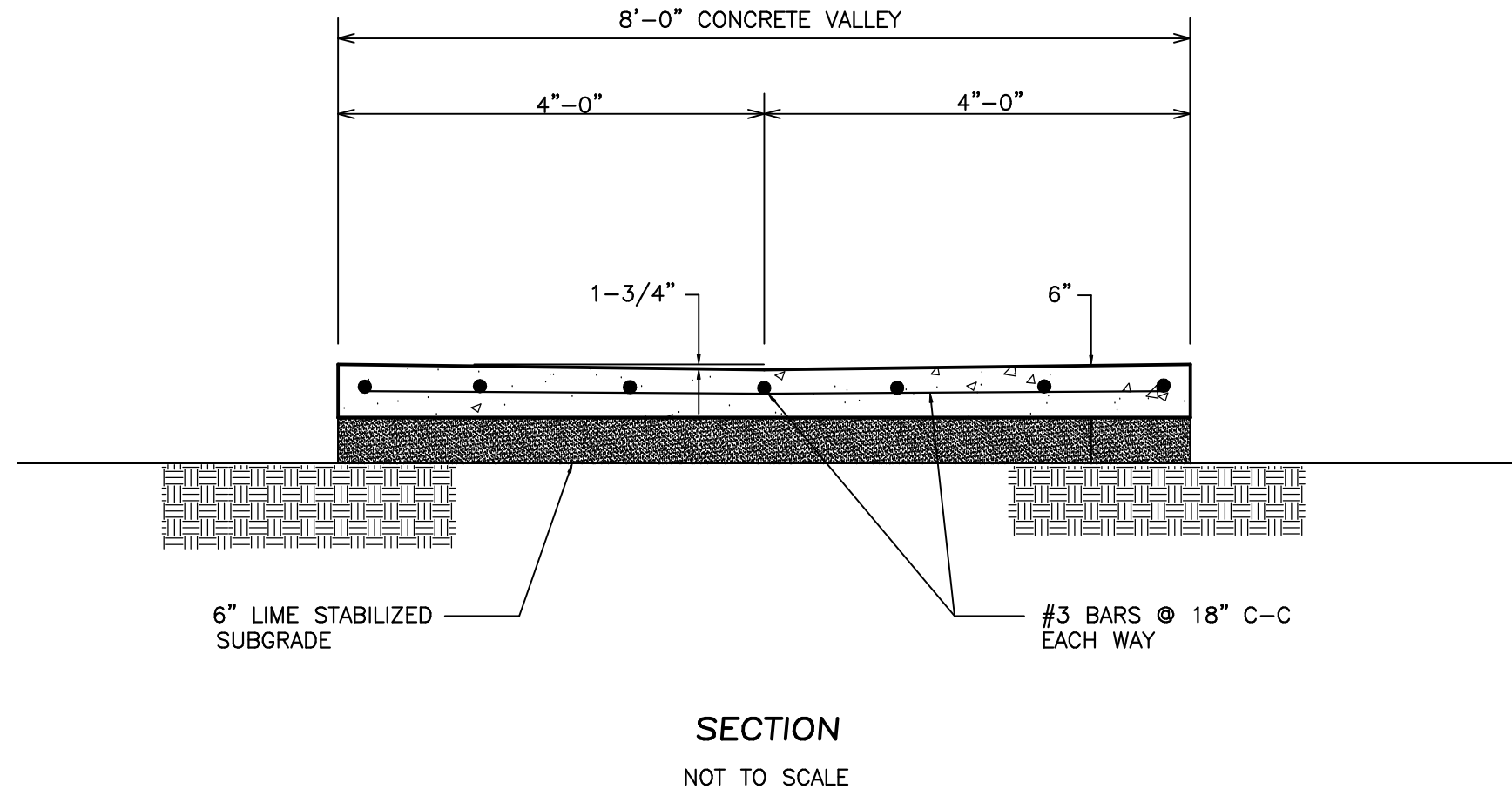
ENGINEERS	SURVEYORS	PLANNERS
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131

DESIGNED	JAG	SCALE AS NOTED	JOB NO.	SHEET
DRAWN	DR			
CHECKED	JAG			
		DATE	4339-PH-2B	15 OF
		5-4-07		

NOTE: ALL PAVEMENT WITHIN COOPER VALLEY PHASE 5 IS TO BE CONCRETE.

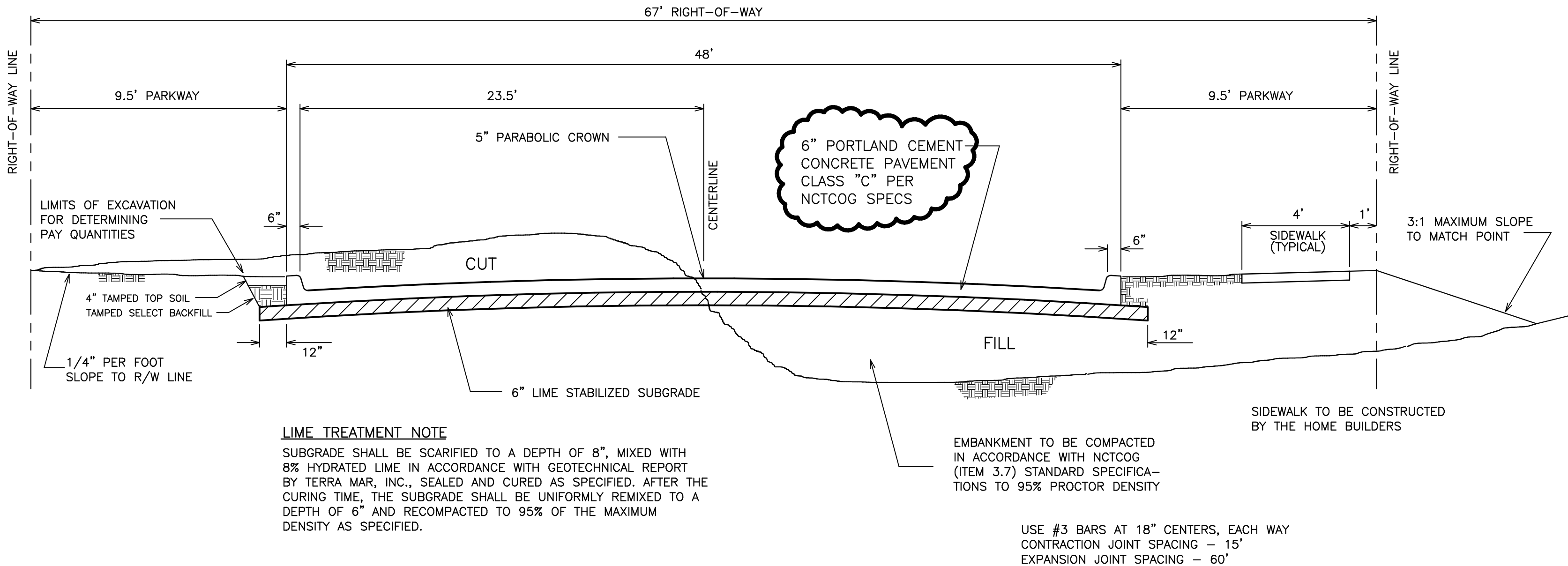


TYPICAL ROADWAY SECTION

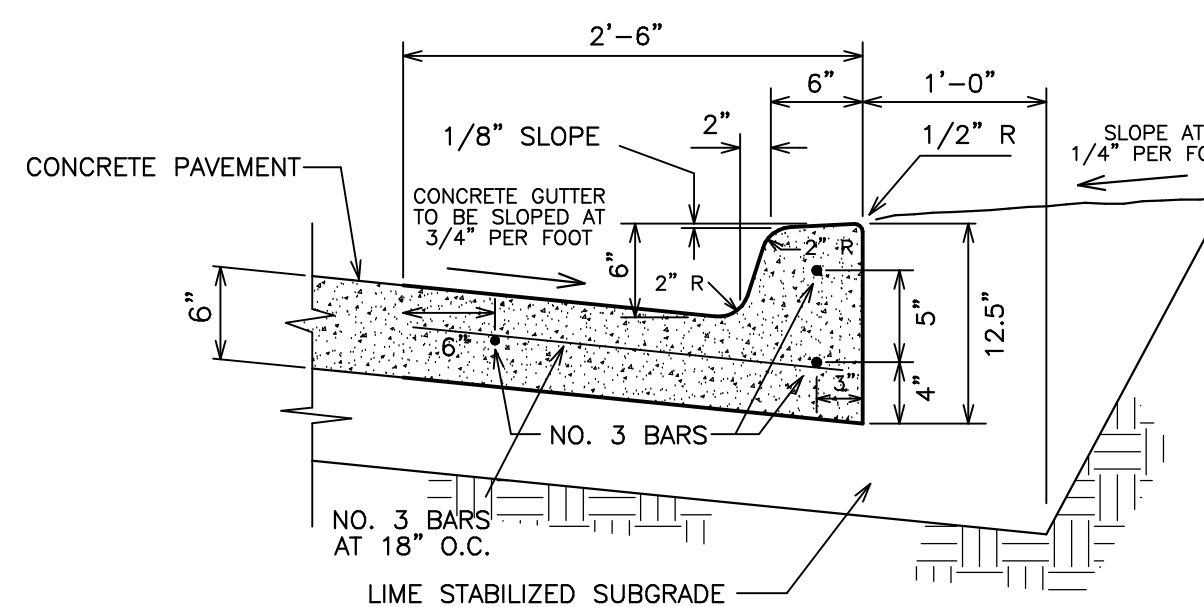


CONCRETE VALLEY DETAILS

NOTE: ALL PAVEMENT WITHIN COOPER VALLEY PHASE 5 IS TO BE CONCRETE.



ROADWAY SECTION AT 67' RIGHT OF WAY SECTION



CURB SECTION

NOT TO SCALE

FIRM REGISTRATION F-4313

CITY OF JOSHUA

COOPER VALLEY
PHASE 5

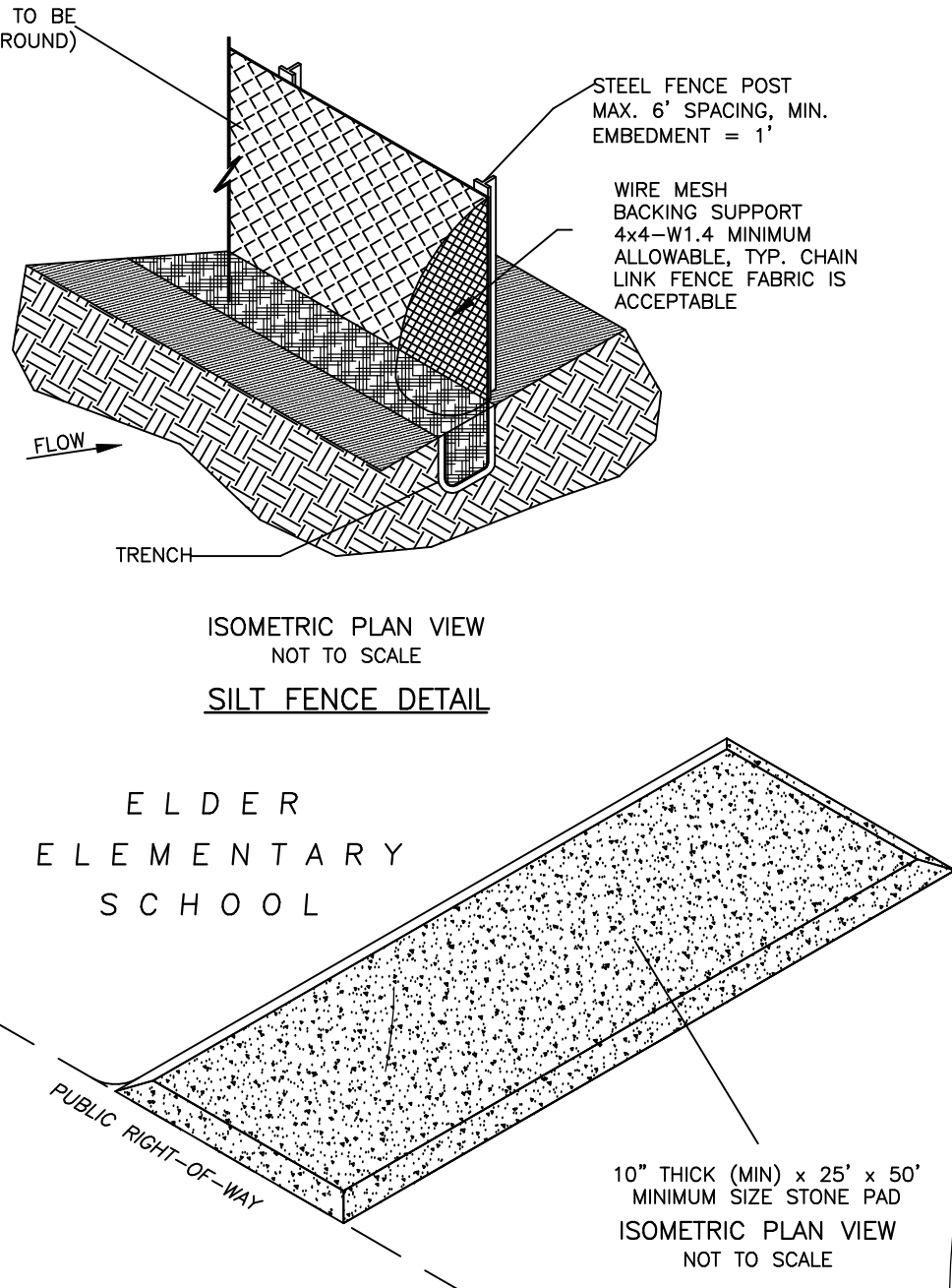
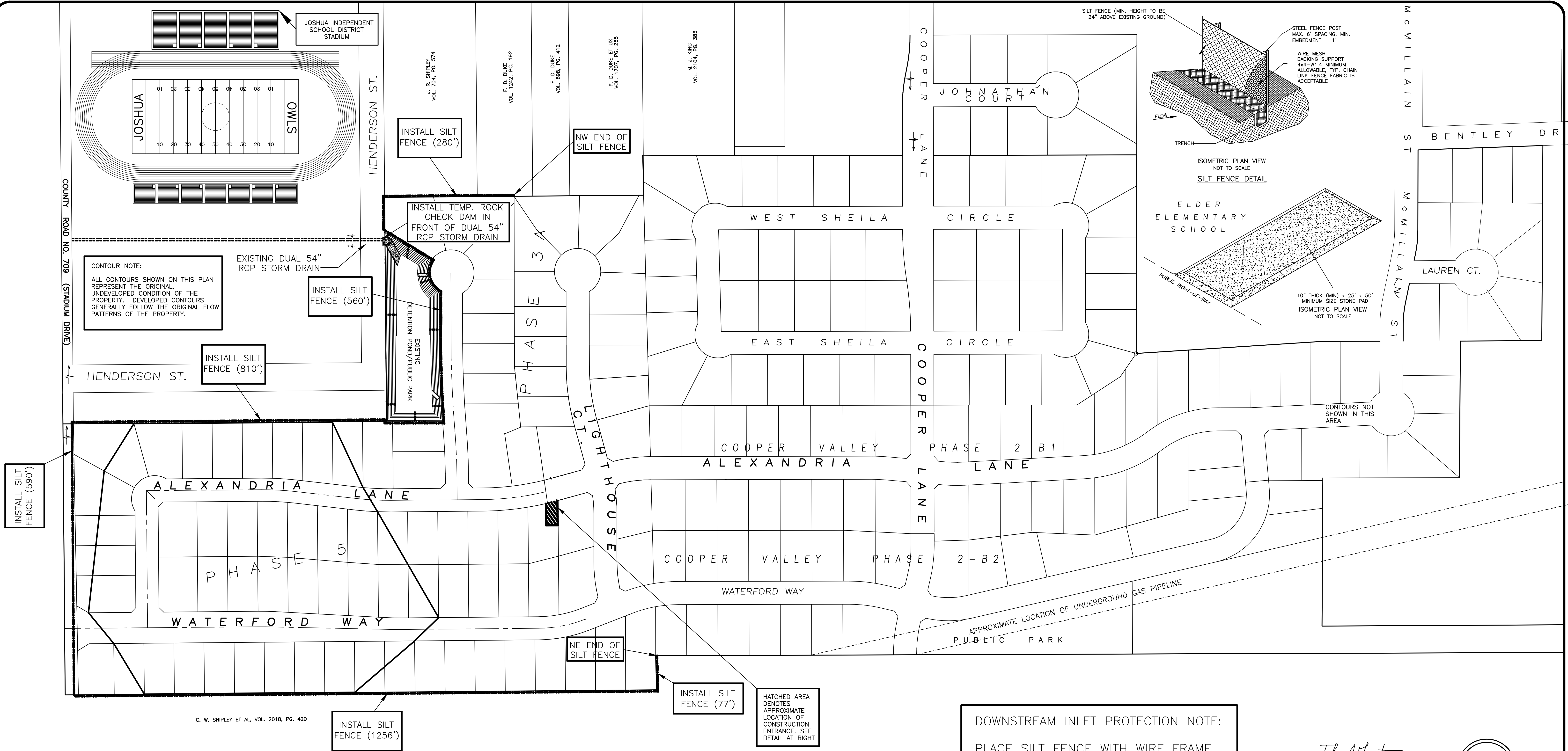
STREET DETAILS

GRANT ENGINEERING

ENGINEERS	SURVEYORS	PLANNERS
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131

DESIGNED <u>JAG</u>	SCALE <u>AS NOTED</u>	JOB NO.	SHEET
DRAWN <u>DBR</u>	DATE <u>12-7-15</u>	4339-ST	16
CHECKED <u>JAG</u>			

REVISED: 5-20-10: 9-11-15: 10-14-15: 4-25-18: 7-11-19

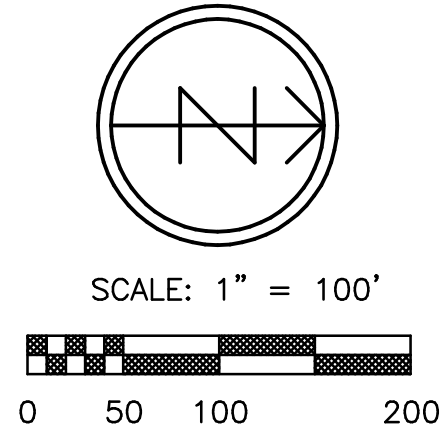
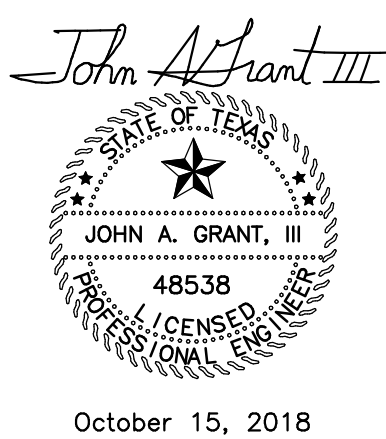


- GENERAL NOTES
- NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THIS PLAN, AND APPROVAL HAS BEEN GRANTED BY THE CITY OF JOSHUA.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
 - THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE.
 - ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
 - CONTRACTOR SHALL PREVENT ANY SILTATION FROM ENTERING THE STORM SEWER SYSTEM. ALL INLETS AND INLET OPENINGS SHALL BE FULLY ENCIRCLED WITH SILT FENCE DURING AND AFTER CONSTRUCTION OF INLET.
 - MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
 - THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ON SITE INSPECTION.
 - CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
 - THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH CONSTRUCTION ACTIVITIES RELATED TO EROSION CONTROL AS SHOWN OR NOTED HEREON SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN IN THE SITE WORK SPECIFICATION, AS WELL AS THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS SITE, AND BECOME FAMILIAR WITH THEIR CONTENTS.
 - ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
 - OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
 - DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
 - DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST TWENTY-ONE DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
 - DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED WITHIN FOURTEEN DAYS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER REMOVAL OF ALL ACCUMULATED SILT IN THE STORM SEWER SYSTEM AND ALONG SILT FENCES.
 - SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE.
 - ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH U.S.E.P.A. STORM WATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE WITHIN THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
 - THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS.
 - WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR USE OFF OF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT EPA STORM WATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO ANY EXPORT OF MATERIALS, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT WITH ANY LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE SITE WILL BE PROPERLY PERMITTED WHEN REQUIRED AND DESCRIBE THE EROSION CONTROL MEASURES WHICH WILL BE USED. AT A MINIMUM, EROSION CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (HAY BALES OR SILT FENCES) ON ALL DOWN SLOPES AND SIDE SLOPE BOUNDARIES OF ANY DISTURBED AREA, PLUS PROVISIONS FOR REVEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.

DOWNSTREAM INLET PROTECTION NOTE:

PLACE SILT FENCE WITH WIRE FRAME OVER DOWNSTREAM INLETS. MONITOR INLET PROTECTION SCREEN ROUTINELY AND ESPECIALLY AFTER EACH RAIN EVENT TO CLEAR ANY BLOCKAGES, REPAIR OR REPLACE SCREENING AS NEEDED TO PROTECT STORM DRAIN SYSTEM.

INLET PROTECTION SCREENS MUST BE REMOVED AT END OF CONSTRUCTION ACTIVITIES.



FIRM REGISTRATION NUMBER: F-4313

CITY OF JOSHUA			
COOPER VALLEY PHASE 5			
EROSION CONTROL PLAN			
GRANT ENGINEERING			
ENGINEERS	SURVEYORS	PLANNERS	
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131	
DESIGNED	DBR	SCALE	JOB NO.
DRAWN	DBR	DATE	4339
CHECKED	JAG		17

CODE OF FEDERAL REGULATIONS PART 1926-OCCUPATIONAL SAFETY AND HEALTH STANDARDS

Subpart P - Excavations, Trenching, & Shoring

1926.650 GENERAL PROTECTION REQUIREMENTS

(a) Walkways, runways, and sidewalks shall be kept clear of excavated material or other obstructions and no sidewalks shall be undermined unless shored to carry a minimum live load of one hundred and twenty-five (125) pounds per square foot.

(b) If planks are used for raised walkways, runways, or sidewalks, they shall be laid parallel to the length of the walk and fastened together against displacement.

(c) Planks shall be uniform in thickness and all exposed ends shall be provided with beveled cleats to prevent tripping.

(d) Raised walkways, runways, and sidewalks shall be provided with plank steps on strong stringers. Ramps, used in lieu of steps, shall be provided with cleats to insure a safe walking surface.

(e) All employees shall be protected with personal protective equipment for the protection of the head, eyes, respiratory organs, hands, feet, and other parts of the body as set forth in Subpart E of this part.

(f) Employees exposed to vehicular traffic shall be provided with and shall be instructed to wear warning vests marked with or made of reflectized or high visibility material.

(g) Employees subjected to hazardous dusts, gases, fumes, mists, or atmospheres deficient in oxygen, shall be protected with approved respiratory protection as set forth in Subpart D of this part.

(h) No person shall be permitted under loads handled by power shovels, excavators, or other equipment, or in the vicinity thereof, until the necessary precautions have been taken to safeguard the employees.

(i) Daily inspections of excavations shall be made by a competent person. If evidence of possible cave-ins or slides is apparent, all work in the excavation shall cease until the necessary precautions have been taken to safeguard the employees.

1926.651 SPECIFIC EXCAVATION REQUIREMENTS

(a) Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, telephone, water, fuel, electric lines, etc., will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation.

(b) When the stability of adjoining buildings or walls is endangered by excavations, shoring, bracing, or underpinning shall be provided as necessary to insure their safety. Such shoring, bracing, or underpinning shall be inspected daily or more often, as conditions warrant, by a competent person and the protection effectively maintained.

(c) Diversion ditches, dikes, or other suitable means shall be used to prevent surface water from entering an excavation and to provide adequate drainage of the area adjacent to the excavation. Water shall not be allowed to accumulate in an excavation.

(d) It is necessary to place or operate power shovels, derricks, trucks, materials, or other heavy objects on a level above and near an excavation, the side of the excavation shall be sheet-piled, shored, and braced as necessary to resist the extra pressure due to such superimposed loads.

(e) When mobile equipment is utilized or allowed adjacent to excavations, substantial stop logs or barricades shall be installed, if possible, the grade should be away from the excavation.

(f) Adequate barrier physical protection shall be provided at all remotely located excavations. All walls, pits, shafts, etc., shall be barricaded and must comply with the requirements of Subpart E of this part.

(g) Supporting systems, i.e., piling, cribbing, shoring, etc., shall be designed by a qualified engineer and must comply with the requirements of Subpart E of this part.

(h) When tie rods are used to restrain the

top of sheeting or other retaining systems, the rods shall be securely anchored well back of the angle of repose. When tight sheeting or sheet piling is used, full loading due to ground water table shall be assumed, unless prevented by weep holes or drains or other means. Additional stringers, ties, and bracing shall be provided to allow for any necessary temporary removal of individual supports.

(i) All slopes shall be excavated to at least the angle of repose except for areas where solid rock allows for line drilling or pre-splitting.

(j) The angle of repose shall be flattened when an excavation has water conditions, silty materials, loose boulders, and areas where erosion, deep frost action, and slide planes appear.

(k) In excavations which employees may be required to enter, excavated or other material shall be effectively stored and retained at least 2 feet or more from the edge of the excavation.

(l) As an alternative to the clearance prescribed in paragraph (j)(1) of this section, the employer may use effective barriers or other effective retaining devices in lieu thereof in order to prevent excavated or other materials from falling into the excavation.

(m) Sides, slopes, and faces of all excavations shall meet accepted engineering requirements by scaling, benching, battering, rock bolting, wire meshing, or other equally effective means. Special attention shall be given to slopes which may be adversely affected by weather or moisture conditions.

(n) Support systems shall be planned and designed by a qualified person when excavation is in excess of 20 feet in depth, adjacent to structures, employees, or subject to vibration or ground water.

(o) Materials used for sheeting, sheet piling, cribbing, bracing, shoring, and underpinning shall be in good serviceable condition, and timbers shall be sound, free from large or loose knots, and of proper dimensions.

(p) Special precautions shall be taken in shoring or shoring the sides of excavations adjacent to a previously backfilled excavation or a fill, particularly when the separation is less than the depth of the excavation. Particular attention also shall be paid to joints and seams of material comprising a face and the slope of such seams and joints.

(q) Except in hard rock, excavations below the level of the base of footing of any foundation or retaining wall shall not be permitted, unless the wall is underpinned, and all other precautions taken to insure the stability of the adjacent walls for the protection of employees involved in excavation work or in the vicinity thereof.

(r) If the stability of adjoining buildings or walls is endangered by excavations, shoring, bracing, or underpinning shall be provided as necessary to insure their safety. Such shoring, bracing, or underpinning shall be inspected daily or more often, as conditions warrant, by a competent person and the protection effectively maintained.

(s) Diversion ditches, dikes, or other suitable means shall be used to prevent surface water from entering an excavation and to provide adequate drainage of the area adjacent to the excavation. Water shall not be allowed to accumulate in an excavation.

(t) It is necessary to place or operate power shovels, derricks, trucks, materials, or other heavy objects on a level above and near an excavation, the side of the excavation shall be sheet-piled, shored, and braced as necessary to resist the extra pressure due to such superimposed loads.

(u) When mobile equipment is utilized or allowed adjacent to excavations, substantial stop logs or barricades shall be installed, if possible, the grade should be away from the excavation.

(v) Adequate barrier physical protection shall be provided at all remotely located excavations. All walls, pits, shafts, etc., shall be barricaded and must comply with the requirements of Subpart E of this part.

(w) Supporting systems, i.e., piling, cribbing, shoring, etc., shall be designed by a qualified engineer and must comply with the requirements of Subpart E of this part.

(x) When tie rods are used to restrain the

shafts, etc., shall be back filled.

(y) If possible, dust conditions shall be kept to a minimum by the use of water, soil, calcium chloride, oil, or other means.

(z) In locations where oxygen deficiency or gaseous conditions are possible, air in the excavation shall be tested. Controls, or at least forklifts, shall be used to assure acceptable atmospheric conditions. When flammable gases are present, adequate ventilation shall be provided or sources of ignition shall be eliminated.

(aa) Attended emergency rescue equipment, such as breathing apparatus, a safety harness and line, basket stretcher, etc., shall be readily available where adverse atmospheric conditions may exist or develop in an excavation.

(ab) Where employees or equipment are required or permitted to cross over excavations, walkways or bridges with standard guardrails shall be provided.

(ac) Where ramps are used for employees or equipment, they shall be designed and constructed by qualified persons in accordance with accepted engineering requirements.

(ad) All loaders used on excavation operations shall be in accordance with the requirements of Subpart E of this part.

1926.652 SPECIFIC TRENCHING REQUIREMENTS

(a) Banks more than 5 feet high shall be sloped back to a stable slope, or some other equivalent means of protection shall be provided where employees may be exposed to moving ground or cave-ins. Refer to Table P-1 as a guide in sloping of banks.

(b) Sides of trenches in unstable or soft material, 3 feet or more in depth, shall be shored, sheeted, braced, sloped, or otherwise supported by means of sufficient strength to protect the employees working within them. See Tables P-1 and P-2.

(c) Sides of trenches in hard or compact soil, including embankments, shall be shored or otherwise supported when the trench is more than 5 feet deep, and 8 feet or more in length, in lieu of shoring, the sides of the trench above the 5-foot level may be sloped to prevent collapse, but shall not be steeper than 1:1 foot-to-one foot.

(d) When the outside diameter of a pipe is greater than 6 feet, a bench of 4-foot minimum shall be provided at the toe of the sloped portion.

(e) Materials used for sheeting and sheet piling, bracing, shoring, and underpinning, shall be in good serviceable condition, and timbers shall be sound and free from large or loose knots, and shall be designed and installed so as to be effective to the bottom of the excavation.

(f) Additional precautions by way of shoring and bracing shall be taken to prevent slides or cave-ins when excavations or trenches are made in locations adjacent to backfilled excavations, or where excavations are subjected to vibrations from railroad or highway traffic, the operation of machinery, or any other source.

(g) Employees entering the bottom pit holes shall be protected by the installation of a removable-type casing of sufficient strength to resist shifting of the surrounding earth. Such temporary protection shall be provided for full depth of that part of each pit hole which is above the ball. A lifeline, suitable for instant rescue and securely fastened to a shoulder harness, shall be worn by each employee entering the shafts. This lifeline shall be individually manned and separate from any line used to remove materials excavated from the bottom.

(h) Minimum requirements for trench timbering shall be in accordance with Table P-2.

(i) Slopes and diagonal shores in a wood shoring system shall not be subjected to compressive stress in excess of values given by the following formula:

$S = 1300 - 20L/D$
Maximum ratio L/D=50

Where:
L = Length, unsupported, in inches
D = Least side of the timber in inches
S = Allowable stress in pounds per square inch of cross-section

(h) When employees are required to be in trenches 4 feet deep or more, an adequate means of exit, such as a ladder or steps, shall be provided, and located so as to require no more than 25 feet of lateral travel.

(i) Bracing or shoring of trenches shall be carried along with the excavation.

(j) Cross braces or trench jacks shall be placed in true horizontal position, be spaced vertically, and be secured to prevent sliding, falling, or kickouts.

(k) Portable trench boxes or sliding trench shields may be used for the protection of personnel in lieu of a shoring system, or sloping. Where such trench boxes or shields are used, they shall be designed, constructed, and maintained in a manner which will provide protection equal to or greater than the sheeting or shoring required for the trench.

(l) Backfilling and removal of trench supports shall progress together from the bottom of the trench. Jacks or braces shall be released slowly and, in unstable soil, ropes shall be used to pull out the jacks or braces from above after employees have cleared the trench.

(m) All loaders used on excavation operations shall be in accordance with the requirements of Subpart E of this part.

(n) "Accepted engineering requirements" or "practices" - those requirements or practices which are compatible with standards required by a registered architect, a registered professional engineer, or other duly licensed or recognized authority.

(o) "Angle of repose" - The greatest angle above the horizontal plane at which a material will lie without sliding.

(p) "Bank" - A mass of soil rising above a digging level.

(q) "Battered excavation" - A part of a shaft or footing excavation, usually near the bottom and bell-shaped, i.e., an enlargement of the cross-section above.

(r) "Braces (trench)" - The horizontal members of the shoring system whose ends bear against the uprights or stringers.

(s) "Cave-in" - Any man-made cavity or depression in the earth's surface, including its sides, walls, or faces, formed by earth removal and providing unsupported earth conditions by reasons of the excavation. If installed forms or similar structures reduce the depth-to-width relationship, an excavation may become a trench.

(t) "Cave-in" - See paragraph (s) of this section.

(u) "Hard compact soil" - All earth materials not classified as running or unstable.

(v) "Kickouts" - Accidental release or failure of a shoring or bracing.

(w) "Sheet pile" - A pile, or sheeting, that may form one of a continuous interlocking line, or a row of timber, concrete, or steel piles, driven in close contact to provide a tight wall to resist the lateral pressure of water, adjacent earth, or other materials.

(x) "Sides" - Walls, or "Faces" - The vertical or inclined earth surfaces formed as a result of excavation work.

(y) "Slope" - The angle with the horizontal at which a particular earth material will stand indefinitely without movement.

(z) "Stringers (wales)" - The horizontal members of a shoring system whose sides bear against the uprights or earth.

(aa) "Trench" - A narrow excavation made below the surface of the ground. In general, the depth is greater than the width, but the width of a trench is not greater than 15 feet.

(ab) "Trench jack" - Screw or hydraulic type jacks used as cross bracing in a trench shoring system.

(ac) "Trench shield" - A shoring system composed of steel plates and bracing, welded or bolted together, which support the walls of a trench from the ground level to the trench bottom and which can be moved along as work progresses.

(ad) "Unstable soil" - Earth material, other than tundra, that because of its nature or the influence of related conditions, cannot be depended upon to remain in place without extra support, such as would be furnished by a system of shoring.

(ae) "Uprights" - The vertical members of a shoring system.

(af) "Wales" - See paragraph (m) of this section.

(ag) "Walls" - See paragraph (k) of this section.

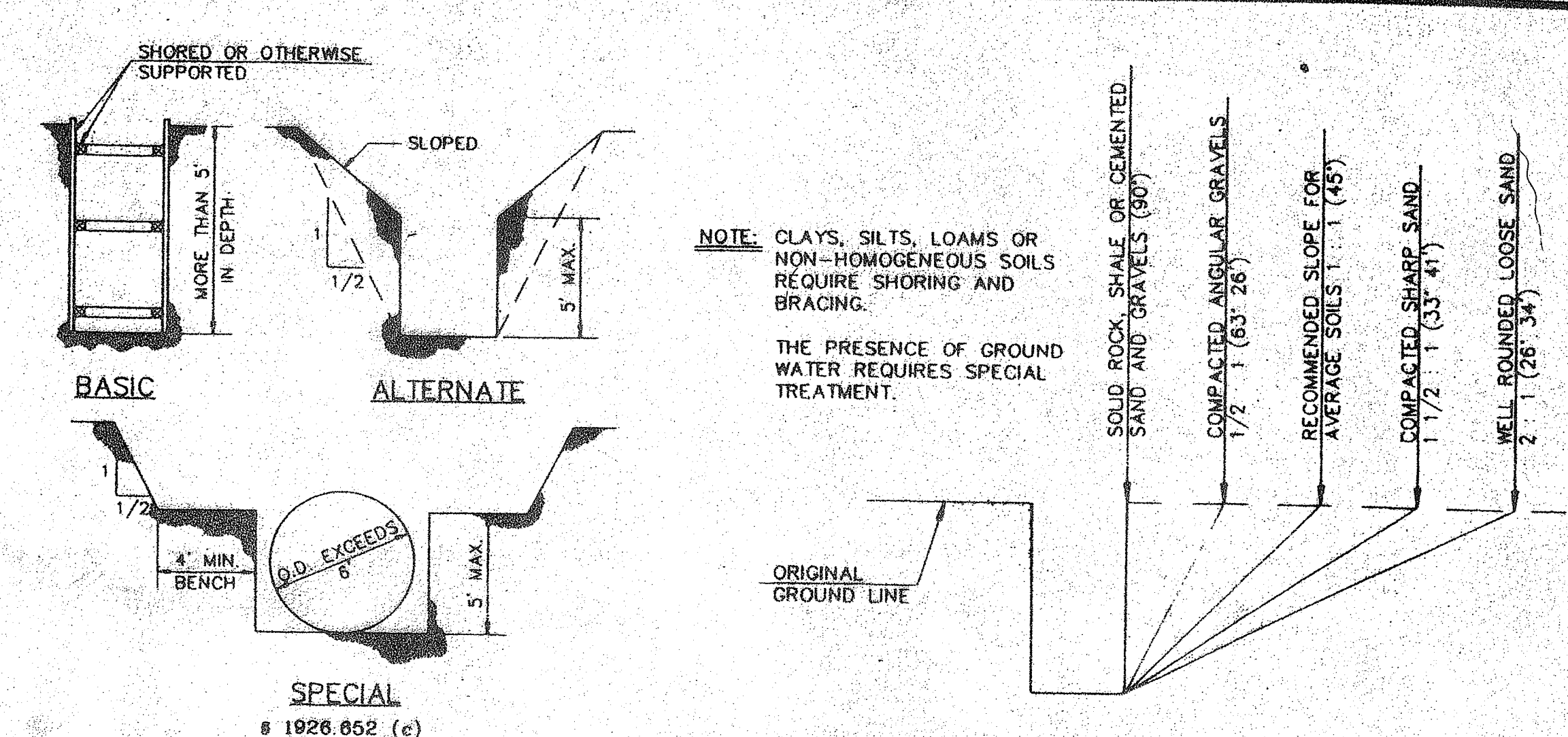


TABLE P-1
APPROXIMATE ANGLE OF REPOSE FOR SLOPING SIDES OF EXCAVATIONS

DEPTH OF TRENCH FEET	KIND OR CONDITION OF EARTH	SIZE AND SPACING OF MEMBERS									
		UPRIGHTS		STRINGERS		CROSS BRACES*					
		MINIMUM DIMENSION	MAXIMUM SPACING	MINIMUM DIMENSION	MAXIMUM SPACING	WIDTH OF TRENCH		VERT		HORIZ.	
		INCHES	FEET	INCHES	FEET	3 TO 6 FEET	6 TO 9 FEET	9 TO 12 FEET	12 TO 15 FEET	FEET	FEET
5 TO 10	HARD, COMPACT	3 X 4 OR 2 X 6	6	4 X 6	4	2 X 6	4 X 4	4 X 6	6 X 6	6 X 8	4
	LIKELY TO CRACK	3 X 4 OR 2 X 6	3	4 X 6	4	2 X 6	4 X 4	4 X 6	6 X 6	6 X 8	4
	SOFT, SANDY, OR FILLED	3 X 4 OR 2 X 6	CLOSE SHEETING	4 X 6	4	4 X 4	4 X 6	6 X 6	6 X 8	8 X 8	4
	HYDROSTATIC PRESSURE	3 X 4 OR 2 X 6	CLOSE SHEETING	6 X 8	4	4 X 4	4 X 6	6 X 6	6 X 8	8 X 8	4
10 TO 15	HARD	3 X 4 OR 2 X 6	4	4 X 6	4	4 X 4	4 X 6	6 X 6	6 X 8	8 X 8	4
	LIKELY TO CRACK	3 X 4 OR 2 X 6	2	4 X 6	4	4 X 4	4 X 6	6 X 6	6 X 8	8 X 8	4
	SOFT, SANDY, OR FILLED	3 X 4 OR 2 X 6	CLOSE SHEETING	4 X 6	4	4 X 6	6 X 6	6 X 8	8 X 8	8 X 10	4
	HYDROSTATIC PRESSURE	3 X 6	CLOSE SHEETING	8 X 10	4	4 X 6	6 X 6	6 X 8	8 X 8	8 X 10	4
15 TO 20	ALL KINDS OR CONDITIONS	3 X 6	CLOSE SHEETING	4 X 12	4	4 X 12	8 X 8	8 X 8	8 X 10	10 X 10	4
OVER 20	ALL KINDS OR CONDITIONS	3 X 6	CLOSE SHEETING	6 X 8	4	4 X 12	8 X 8	8 X 10	10 X 10	10 X 12	4

* Trench jacks may be used in lieu of or in combination with cross braces. Shoring is not required in solid rock, hard shale, or hard slag. Where desirable, steel sheet piling and bracing of equal strength may be substituted for wood.

TABLE P-2
TRENCH SHORING - MINIMUM REQUIREMENTS

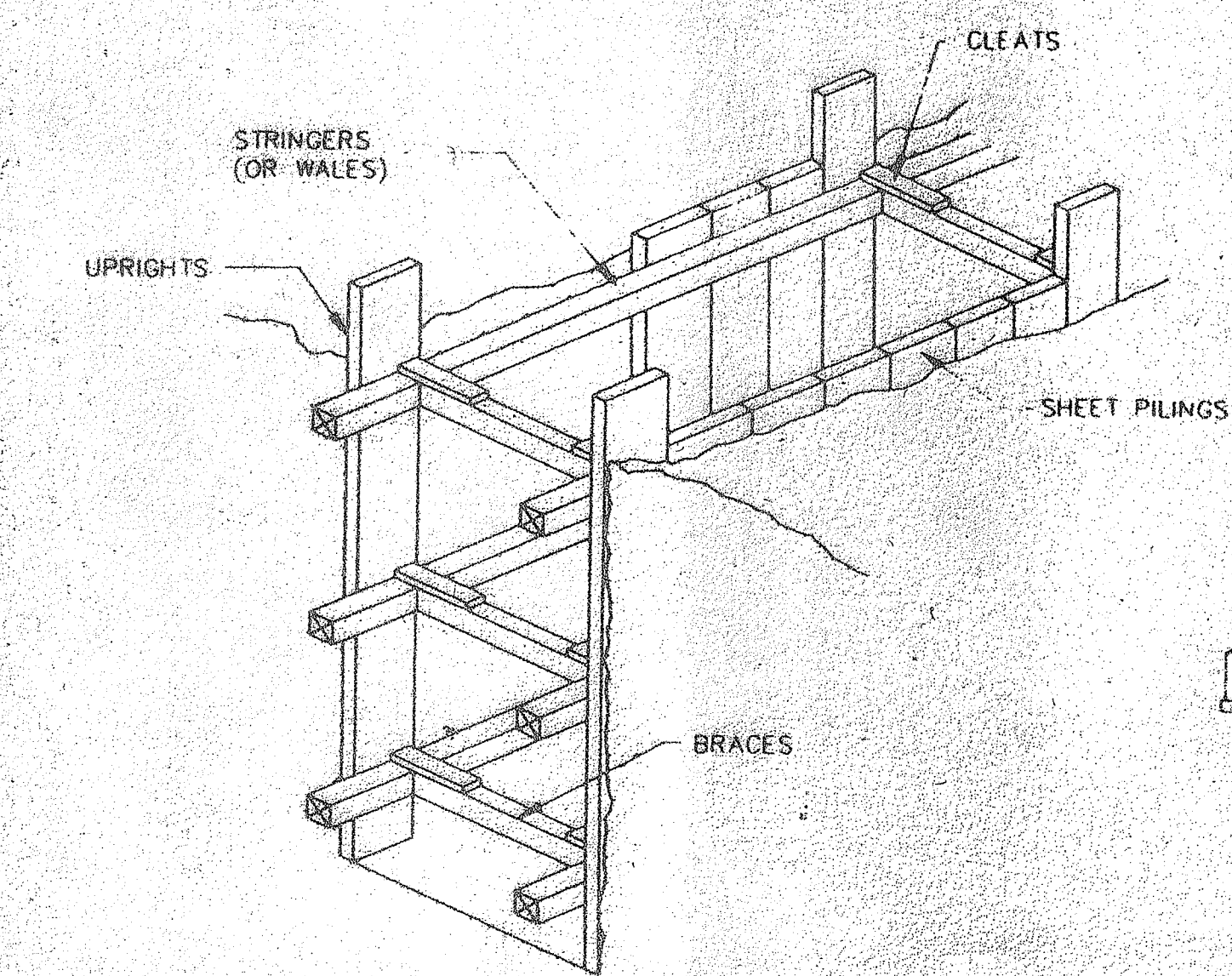


FIGURE 2
ONE EXAMPLE OF SEVERAL TYPES OF SHEETING

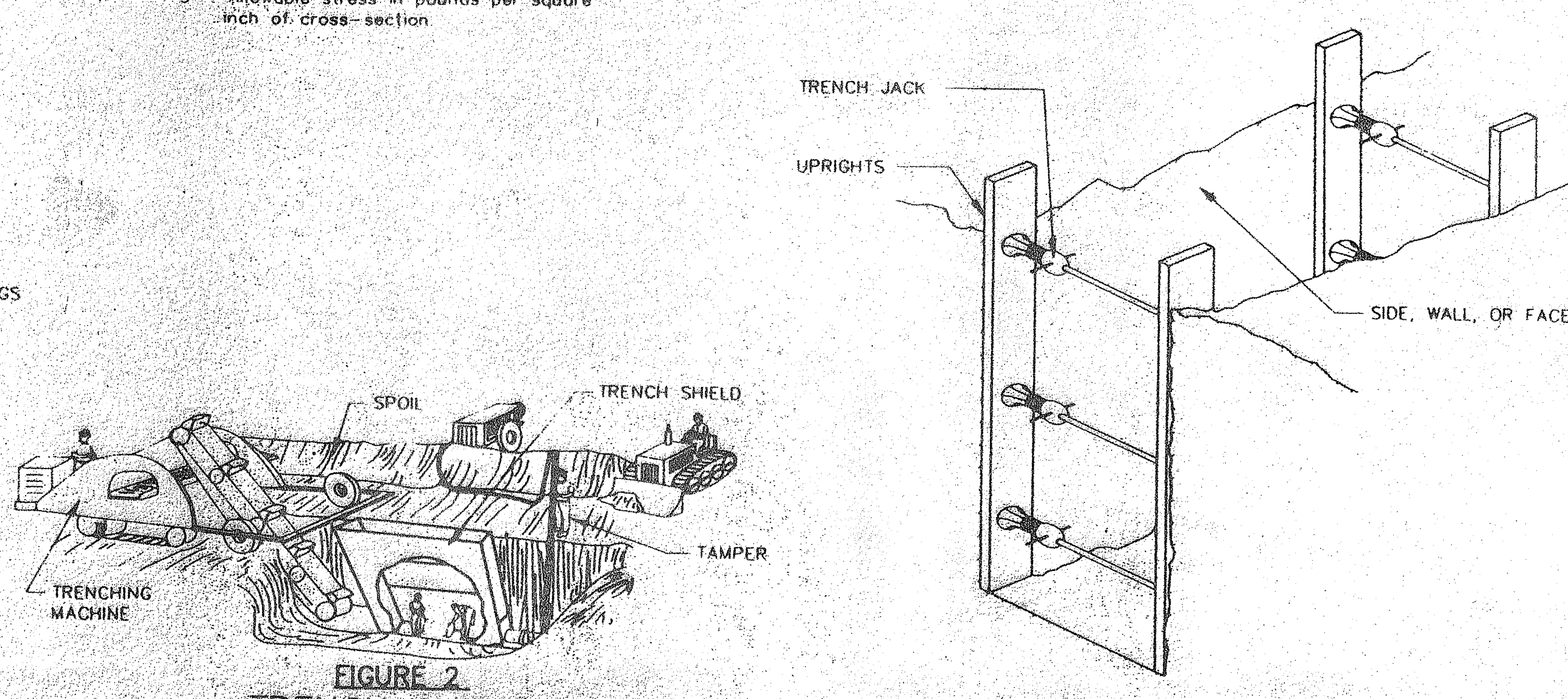


FIGURE 3
TRENCH JACKS IN TRUE HORIZONTAL POSITION AND SPACED VERTICALLY

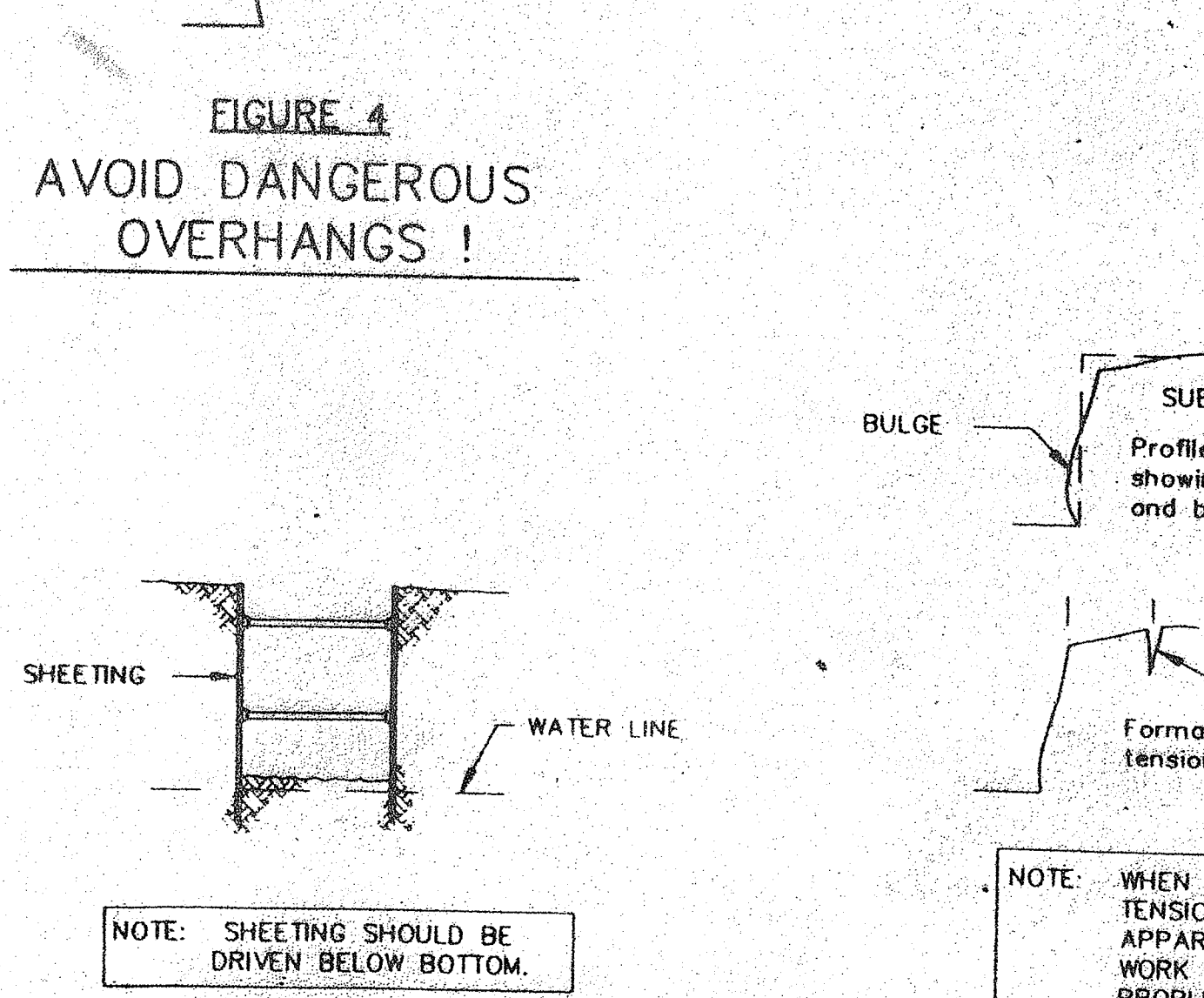


FIGURE 4
EXCAVATION BOTTOM BELOW WATER LINE

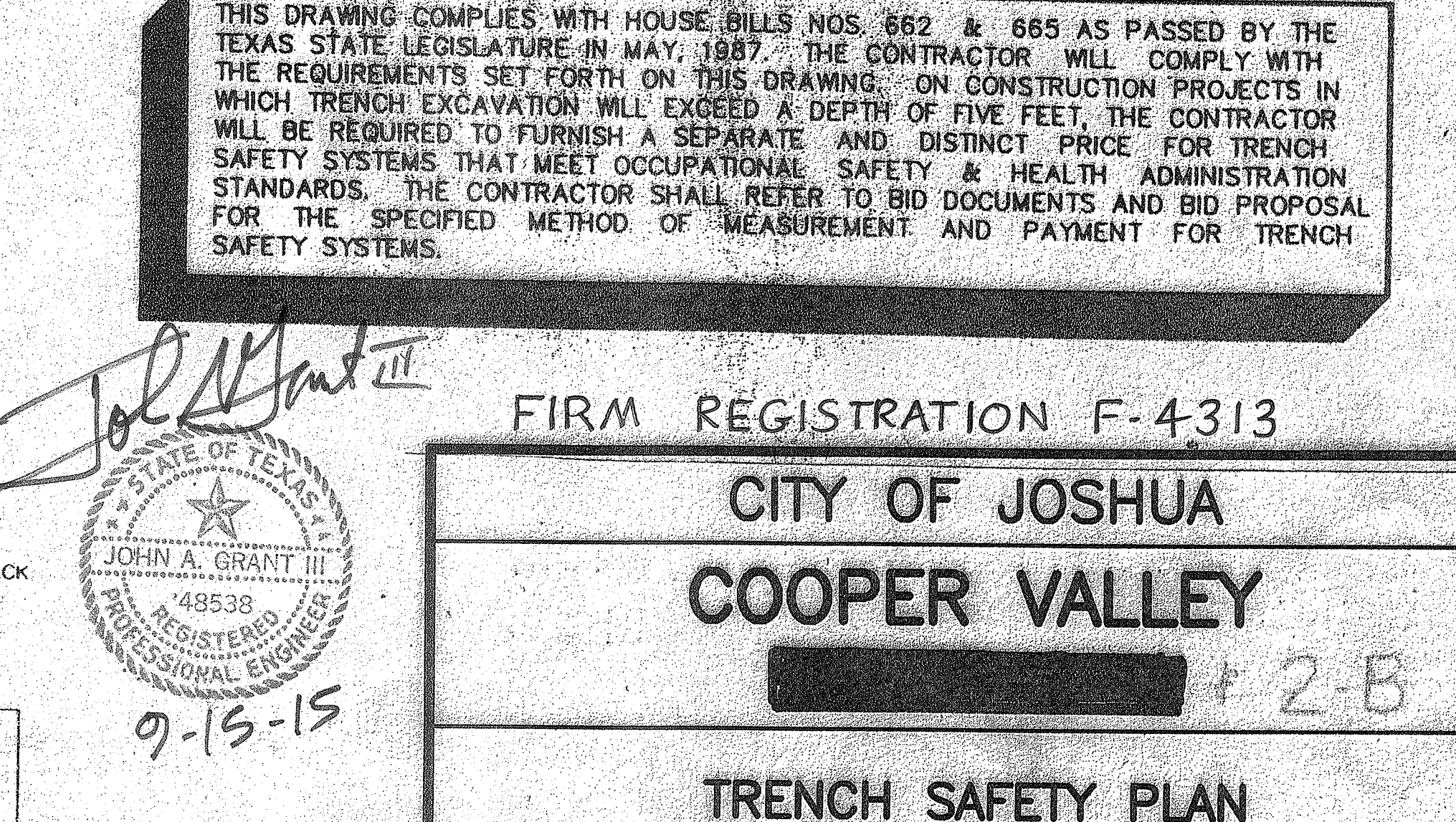


FIGURE 5
SUBSIDENCE & TENSION CRACKS

ADDITIONAL O.S.H.A. RECOMMENDATIONS FOR EXCAVATING AND TRENCHING OPERATIONS

DESIGNING ADEQUATE PROTECTION

Designing a support system is a complex operation because of the number of factors involved. Some of the considerations the contractor must take into account are:

- Soil classification.
- Depth of cut.
- Water content of soil.
- Changes due to weather and climate.
- Superimposed loads.
- Vibrations, and
- Other operations in the vicinity.

SOIL CLASSIFICATION

The type(s) of soil must be identified to determine proper protective measures. Excavations in wet soil, sandy soil, or areas that have been backfilled, are relatively unstable and must have strong support. Even hard rock sometimes can be hazardous; faults in the strata can make it unstable when cut.

WEATHER CONDITIONS

Changing weather conditions and climate also greatly affect how strong a shoring system must be. Excess water from rain or melting snow loosens the soil, drastically increasing the pressure on the shoring system. A rainstorm can turn a stable trench side that required only light bracing into a mass of loose soil, posing an immediate threat to the employees working within. Shoring frozen ground presents another potential problem - a sudden thaw can undermine an entire section of shoring. Even excessively dry conditions can reduce the cohesiveness of the soil.

Large excavations, in particular, are subject to changing weather conditions because they are generally open for longer periods of time than are trenches. Shoring for these excavations should provide long-range protection for a variety of weather conditions. In some cases, additional precautions are necessary to protect excavation sides or faces, such as covering them with plastic sheeting or spraying the soil bank with a moisture-limiting chemical.

SUPERIMPOSED LOADS

Superimposed loads in the vicinity of a trench or excavation increase the pressure on excavation faces. Heavy equipment and materials such as pipes or timbers should be kept as far back from the excavation as possible. When heavy loads must be located near an excavation, the walls must be braced, sheet-piled, or shored to safely support the extra weight. In some cases, it may be necessary to lessen the pressure of these loads. Pile drivers, or cranes for example, should be mounted on wooden mats or heavy planking to spread the weight more evenly.

Buildings, curbs, trees, utility poles, and other structures adjoining the excavation area also can place more stress on a trench side than it can safely accommodate. In these instances, OSHA requires that shoring, bracing, or underpinning be provided as necessary to protect workers. It also must prevent the dislocation of the soil beneath the structures in the vicinity.

In addition, spoil, the excavated material, can exert great pressure on the excavation walls. Spoil must be stored 2 feet or more from the edge of the excavation, and be retained in an effective manner.

VIBRATIONS

Vibrations or sudden shock from passing vehicles or railways, blasting, equipment such as trucks or pile drivers, and some loads can contribute to cave-ins by loosening the soil. Even machines operated in nearby buildings, such as punch presses, can create enough vibration to endanger a shoring system. If these conditions exist near an excavation site, stronger support is vital.

REMEMBER

OSHA regulations for trenching and excavation work leave no room for risk-taking; they require that safe working conditions be provided for all employees working in excavations. A greater awareness of the safety problems to be overcome in excavations - on the part of the employer who designs the protection and the employee who installs it - will help and save lives in construction.

FOR MORE INFORMATION

Regulations for excavation, trenching, and shoring are contained in Subpart P, Part 1926 of the Code of Federal Regulations. Other OSHA construction standards may also apply.

Part 1926 covers the safety and health regulations for construction. Copies of the complete set of OSHA standards for construction may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Ask for CONSTRUCTION INDUSTRY, Part 1926/1910 (OSHA 2077).

Additional information on trenching and excavation may be obtained from the OSHA office nearest you.

NOTE:

THIS DRAWING COMPLIES WITH HOUSE BILLS NOS. 562 & 665 AS PASSED BY THE TEXAS STATE LEGISLATURE IN MAY, 1987. THE CONTRACTOR WILL COMPLY WITH THE REQUIREMENTS SET FORTH ON THIS DRAWING. ON CONSTRUCTION PROJECTS IN WHICH TRENCH EXCAVATION WILL EXCEED A DEPTH OF FIVE FEET, THE CONTRACTOR WILL BE REQUIRED TO FURNISH A SEPARATE AND DISTINCT PRICE FOR TRENCH SAFETY SYSTEMS THAT MEET OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. THE CONTRACTOR SHALL REFER TO BID DOCUMENTS AND BID PROPOSAL FOR THE SPECIFIED METHOD OF MEASUREMENT AND PAYMENT FOR TRENCH SAFETY SYSTEMS.

NOTE:

WHEN SUBSIDENCE OR TENSION CRACKS ARE APPARENT - STOP ALL WORK AND CORRECT PROBLEM.

NOTE:

SHOOTING SHOULD BE DRIVEN BELOW BOTTOM.

NOTE:

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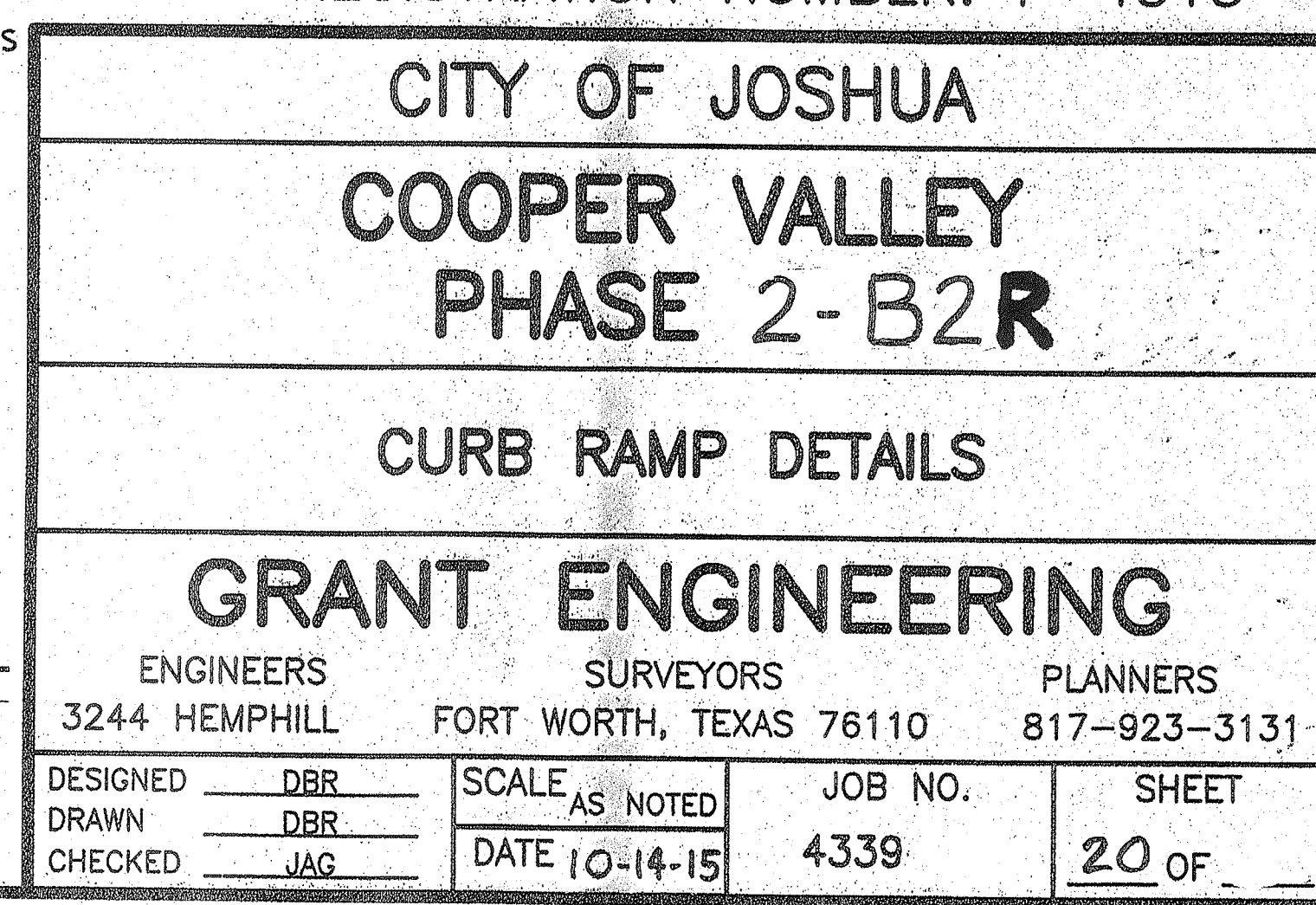
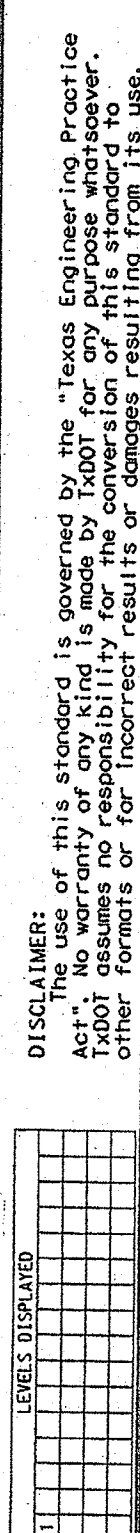
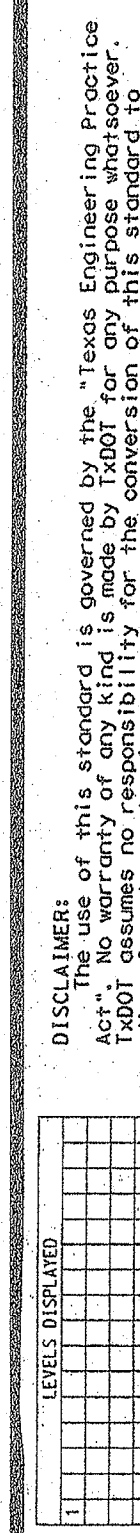
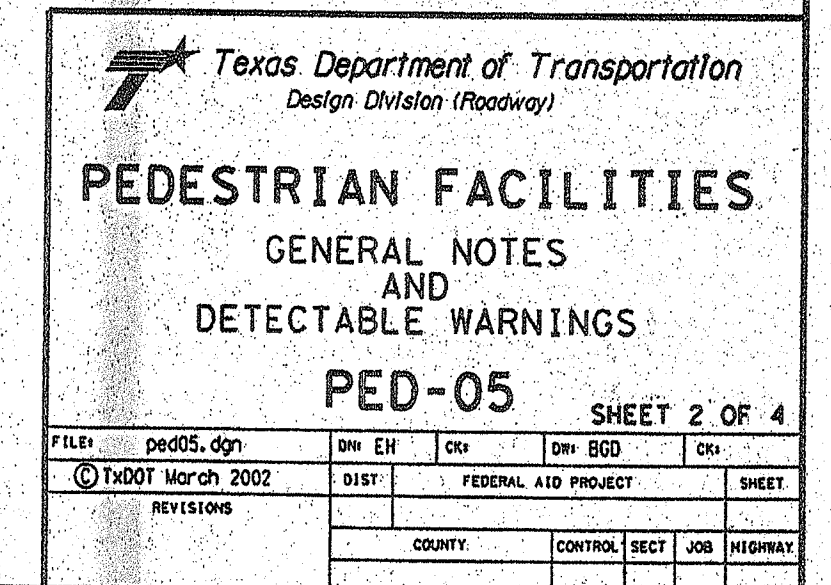
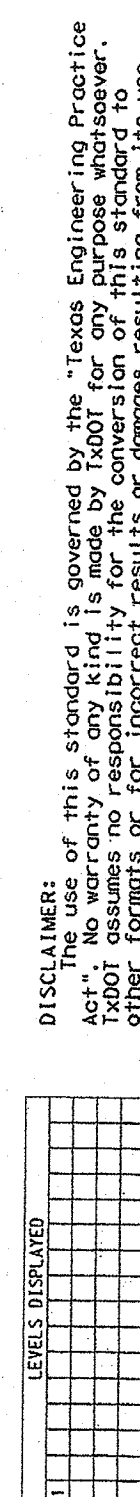
WHEN SUBSIDENCE OR TENSION CRACKS ARE APPARENT - STOP ALL WORK AND CORRECT PROBLEM.

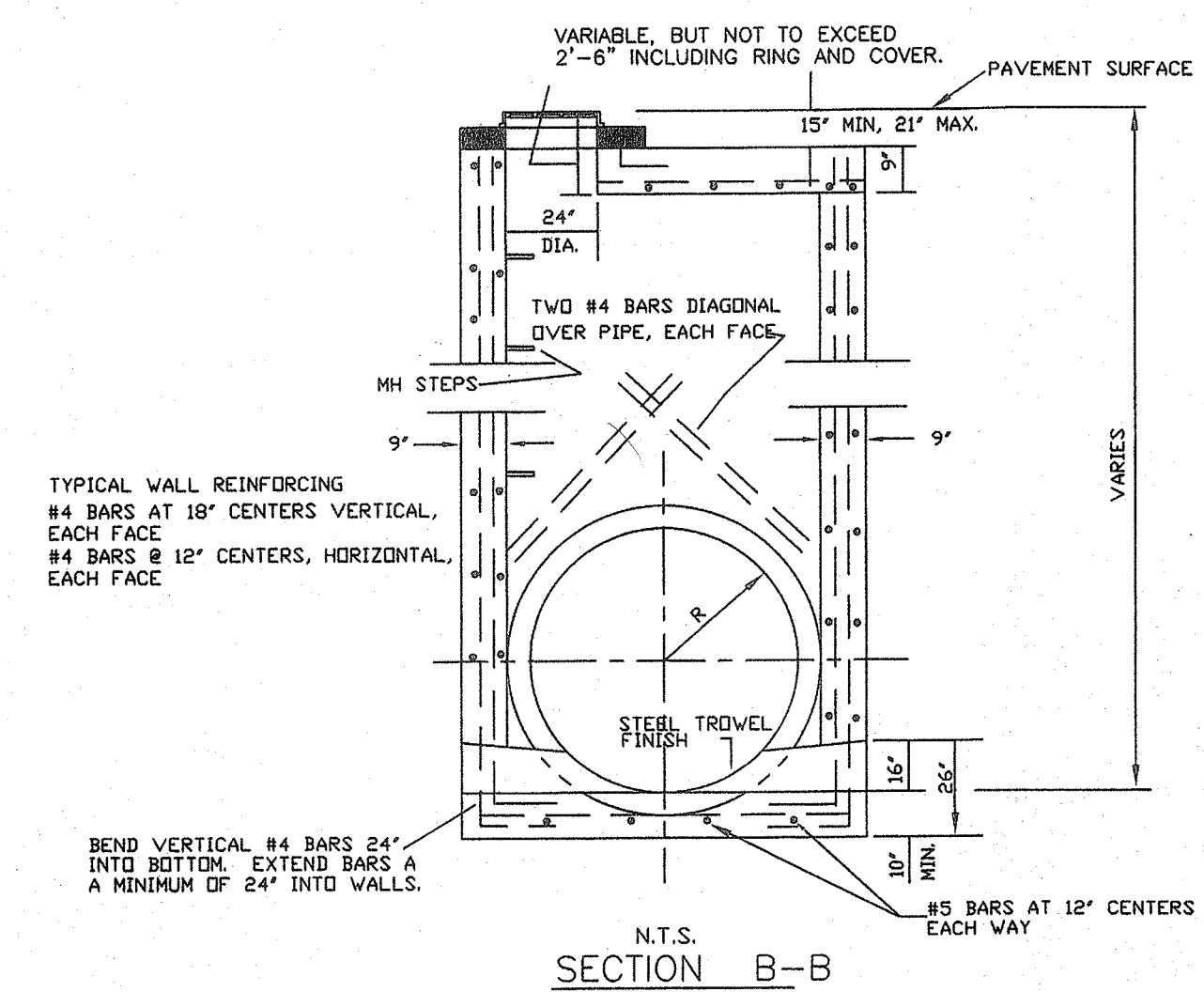
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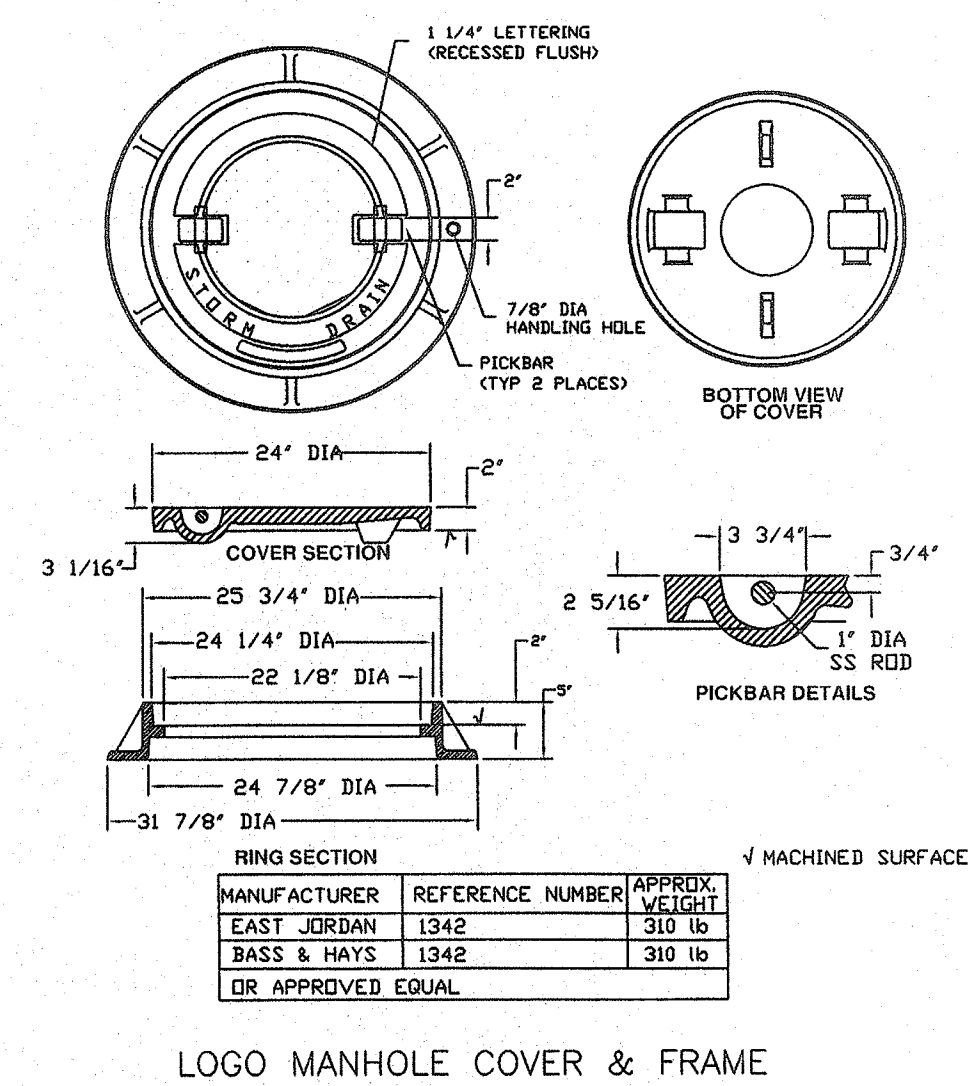
NOTE:

WHEN SUBSIDENCE OR TENSION CRACKS ARE APPARENT - STOP ALL WORK AND CORRECT PROBLEM.

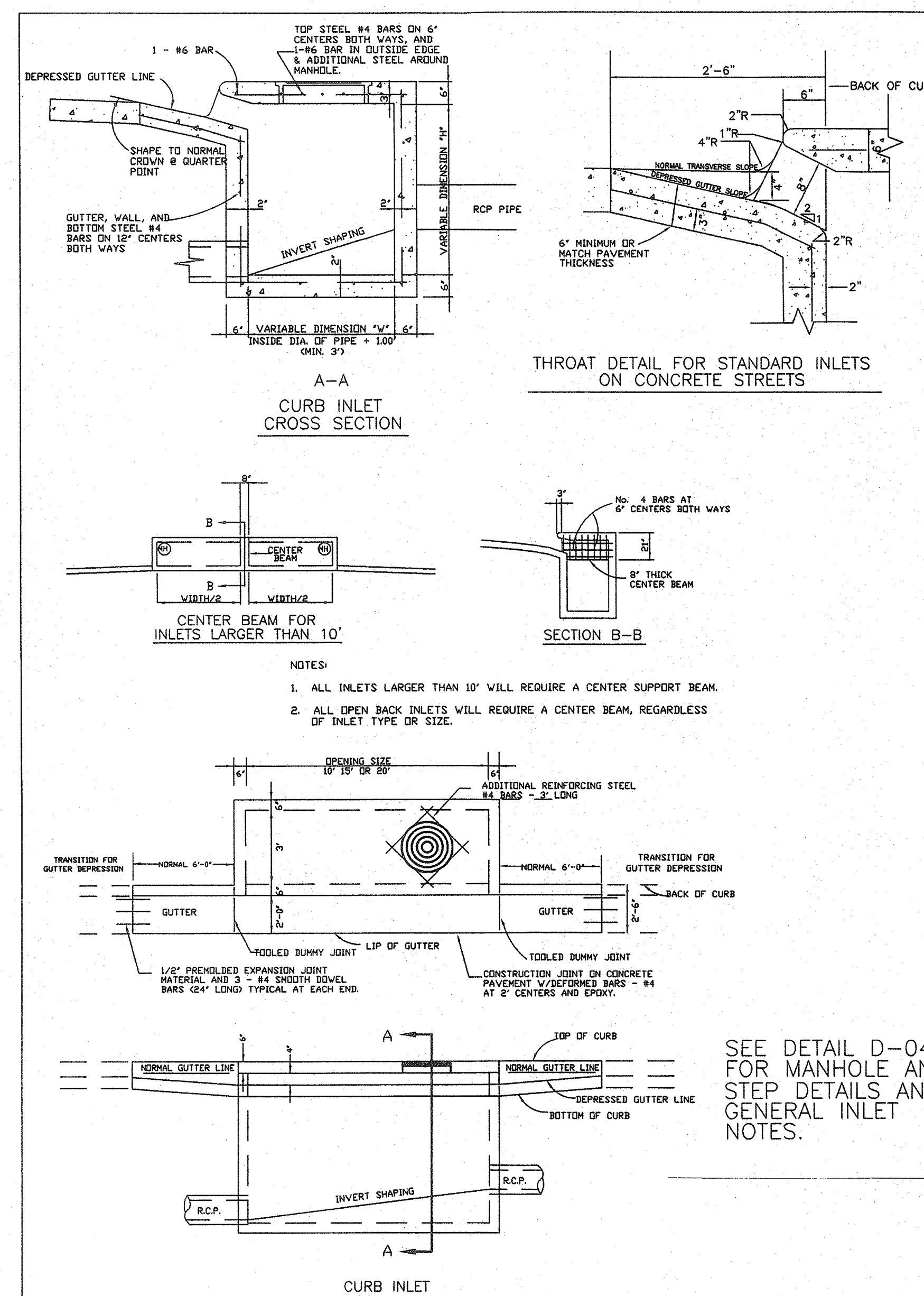




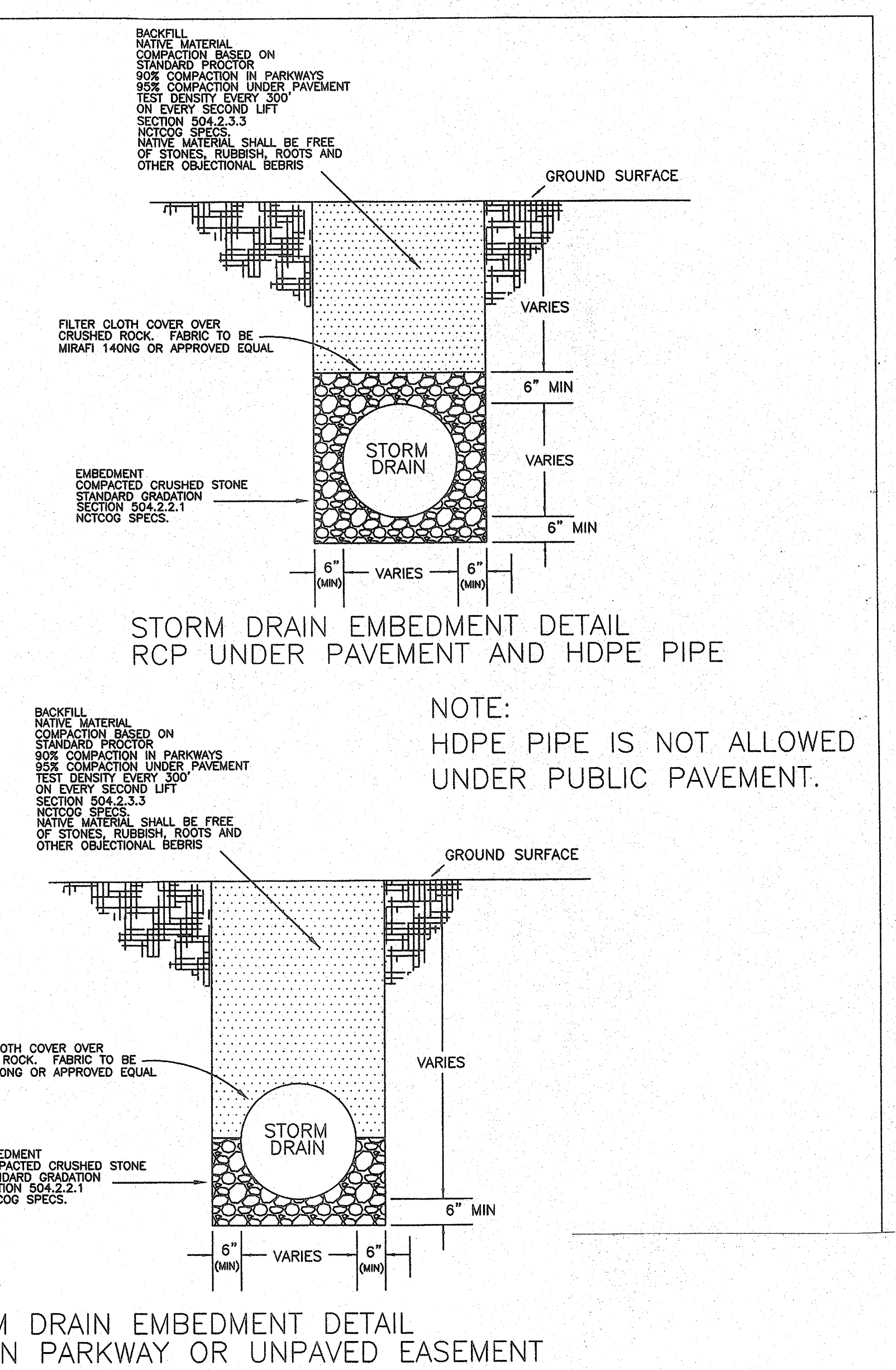
STORM DRAIN MANHOLE
SHEET 1 OF 2



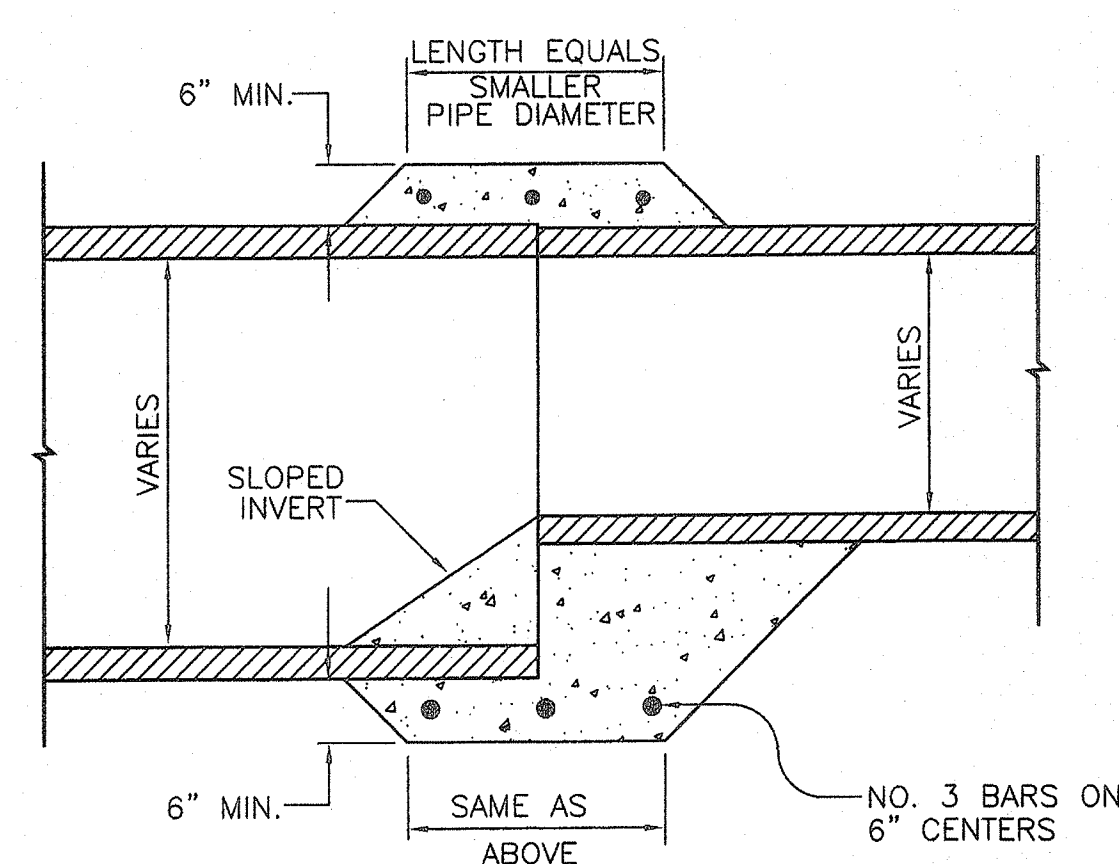
STORM DRAIN MANHOLE
SHEET 2 OF 2



STANDARD CURB INLET



STORM DRAIN EMBEDMENT



- NOTES:
1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN A PREFAB REDUCTION IS NOT POSSIBLE.
 2. CONCRETE FOR COLLAR WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS OTHER BIDS.
 3. CONCRETE SHALL BE 5 SACK 3000 PSI.

PIPE COLLAR

GENERAL NOTES

ALL SITUATIONS WHERE WATER AND SEWER LINES CROSS, TCEQ RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS (REGARDING ENCASEMENT OR PIPE TYPE) SHALL APPLY. A BRIEF SUMMARY OF SAID RULES ARE AS FOLLOWS: AN ABSOLUTE MINIMUM SEPARATION OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF SEWER PIPE MUST BE CENTERED ON THE WATERLINE. WHERE A SEWER CROSSES OVER A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS.

MANHOLE COVERS AND PENETRATIONS SHALL CONFORM TO TCEQ REQUIREMENTS, AND TO ASTM C-923 REGARDING SEWER TO MANHOLE CONNECTIONS

NOTE: ALL FITTINGS TO BE CONSTRAINED.

FIRM REGISTRATION NUMBER: F-4313

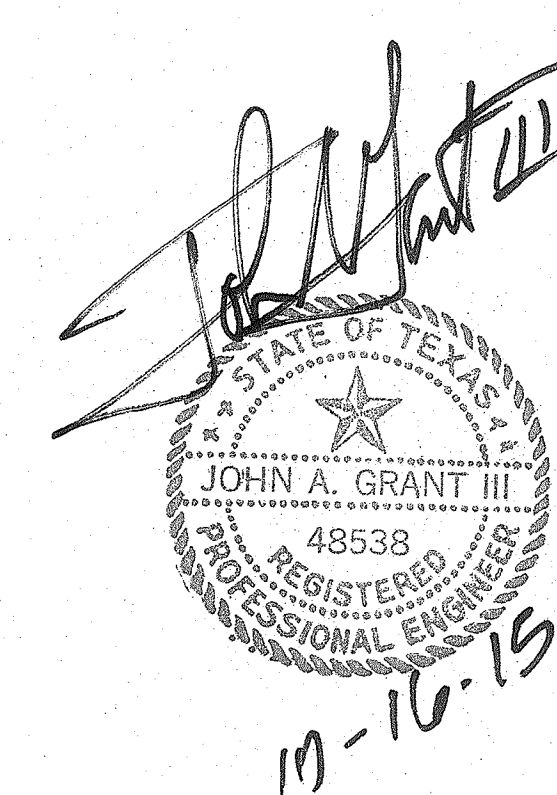
CITY OF JOSHUA
COOPER VALLEY
PHASE 2-B2

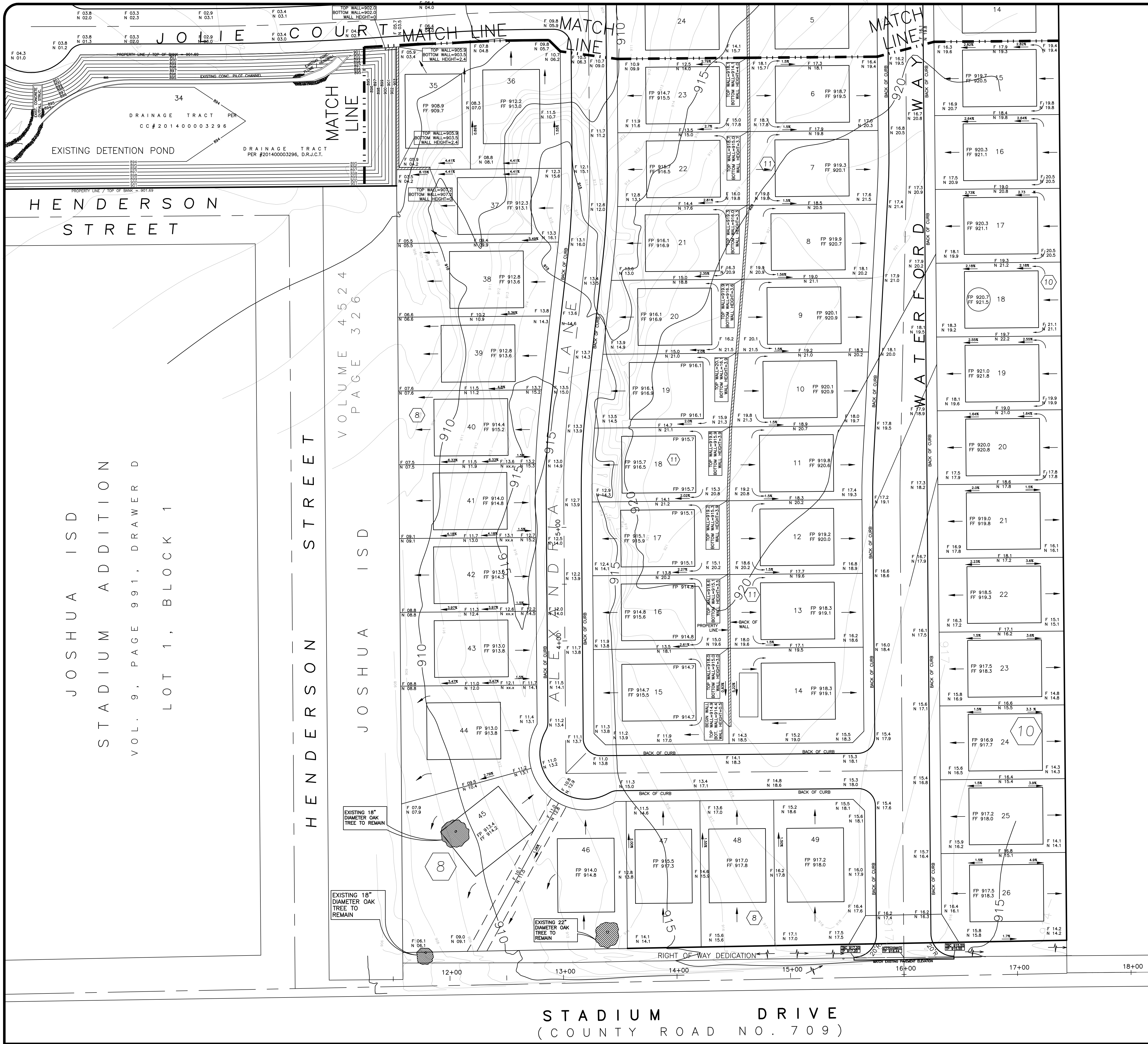
STORM DRAIN DETAILS

GRANT ENGINEERING

ENGINEERS SURVEYORS PLANNERS
3244 HEMPHILL FORT WORTH, TEXAS 76110 817-923-3131

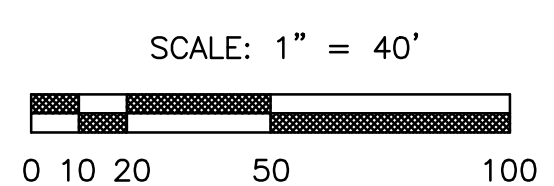
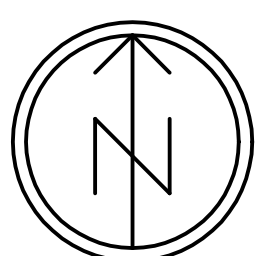
DESIGNED DBR SCALE AS NOTED JOB NO. SHEET
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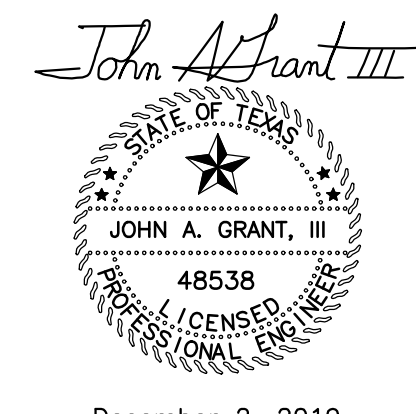
C. W. SHIPLEY, ET AL

VOLUME 2018, PAGE 420



LEGEND

- FF PROPOSED FINISH PAD ELEVATION
- FF PROPOSED FINISH FLOOR ELEVATION
- F FUTURE OR PROPOSED GROUND ELEVATION
- N NATURAL OR EXISTING GROUND ELEVATION

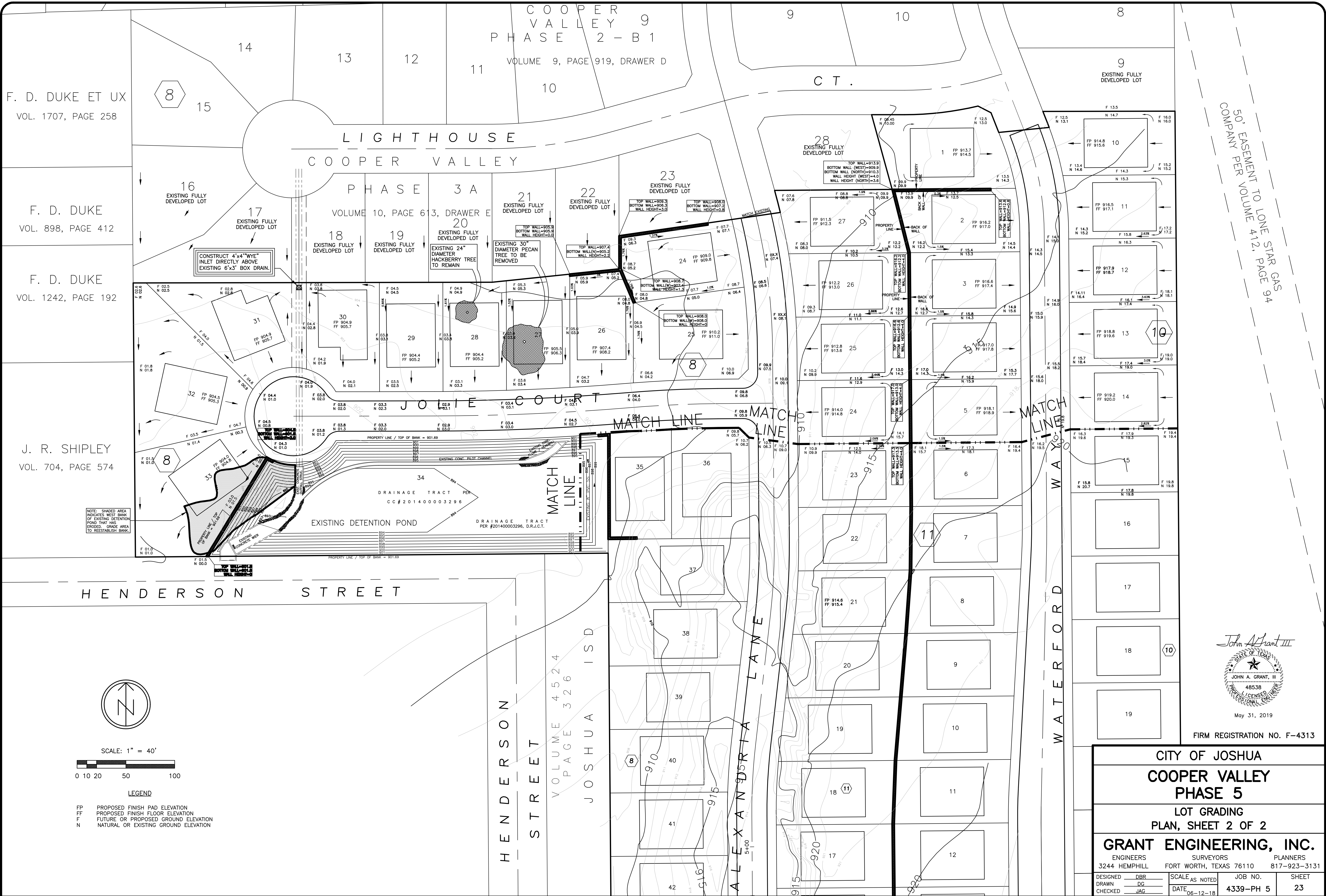


December 2, 2019

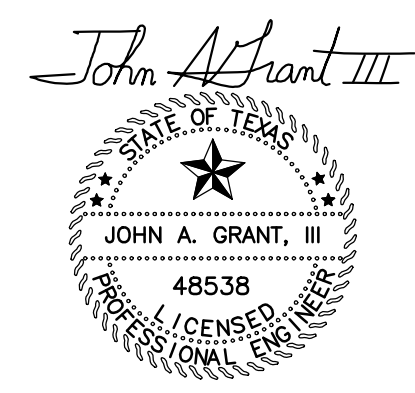
FIRM REGISTRATION NO. F-4313

CITY OF JOSHUA			
COOPER VALLEY			
PHASE 5			
LOT GRADING			
PLAN, SHEET 1 OF 2			
GRANT ENGINEERING, INC.			
ENGINEERS	SURVEYORS	PLANNERS	
3244 HEMPHILL	FORT WORTH, TEXAS 76110	817-923-3131	
DESIGNED DBR	SCALE AS NOTED	JOB NO.	SHEET
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CHECKED JAG	DATE 06-12-18	4339-PH 5	22

REVISED: 8-24-18; 4-10-19; 5-10-19; 5-30-19; 12-2-19



50' EASEMENT TO LONE STAR GAS COMPANY PER VOLUME 412, PAGE 94



FIRM REGISTRATION NO. F-4313

CITY OF JOSHUA

COOPER VALLEY

PHASE 5

LOT GRADING

PLAN, SHEET 2 OF 2

GRANT ENGINEERING, INC.

ENGINEERS
3244 HEMPHILL
SURVEYORS
FORT WORTH, TEXAS 76110
PLANNERS
817-923-3131

DESIGNED DBR
DRAWN DC
CHECKED JAG

SCALE AS NOTED
DATE 06-12-18

JOB NO. 4339-PH 5

SHEET 23

REVISED: 8-24-18; 4-10-19; 5-10-19; 5-30-19

FIRM REGISTRATION NUMBER: F-4313

CITY OF JOSHUA

COOPER VALLEY
PHASE 5

PROPOSED SIGNS

GRANT ENGINEERING

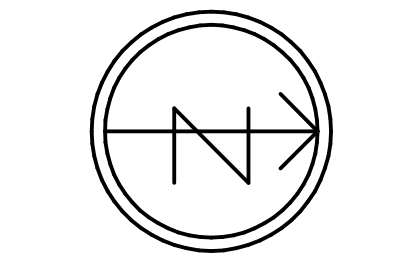
ENGINEERS
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FORT WORTH, TEXAS 76110

SURVEYORS
3244 HEMPHILL
FORT WORTH, TEXAS 76110

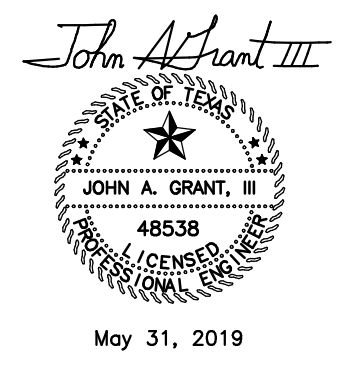
PLANNERS
817-923-3131

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DRAWN	DBR	DATE	4339	24
CHECKED	JAG			

GATLORD W. CARLOCK
69.4 ACRES
VOLUME 1743, PAGE 915
JOSHUA CITY
LIMIT LINE



SCALE: 1" = 50'



JOSHUA ISD
STADIUM ADDITION
VOL. 9, PAGE 991, DRAWER D
LOT 1, BLOCK 1

JOSHUA ISD
VOLUME 4524
PAGE 326

ALEXANDRIA

WATERFORD WAY

C. W. SHIPLEY, ET AL
VOLUME 2018, PAGE 420

STADIUM DRIVE
(COUNTY ROAD NO. 709)
VARIABLE WIDTH RIGHT-OF-WAY

DRAINAGE TRACT PER
CC # 201400003296
DETENTION POND / PUBLIC PARK

COOPER VALLEY
PHASE 3A
VOLUME 10, PAGE 613, DRAWER E

COOPER VALLEY
PHASE 2-A
VOLUME 9, PAGE 491, DRAWER C

COOPER VALLEY
PHASE 2-A
VOLUME 9, PAGE 491, DRAWER C

COOPER VALLEY
PHASE 2-A
VOLUME 9, PAGE 491, DRAWER C

Notice of Public Hearing

Notice is hereby given that the City of Joshua's Planning and Zoning Commission and City Council will conduct public hearings to consider the request for zoning change from Agricultural District to the R-1, Single Family Residential District on a 1.59 acre tract of land generally located at the southwest corner of Conveyor Drive and County Road 800-A, legally known as 510 Conveyor Drive, Joshua, Johnson County, Texas 76058.

The Planning and Zoning Commission will conduct its public hearing on July 6, 2020 at 6:30 PM and the City Council will conduct its public hearing and consideration on July 16, 2020 at 6:30 PM.

Both meetings will be held in the City Council Chambers at Joshua City Hall, 101 South Main Street, Joshua, TX 76058.

As of the date of publication of this notice, it is unknown whether either meeting or both meetings will be conducted in City Council Chambers or virtually. The posted agendas for each meeting will contain appropriate information.



City Council Agenda July 16, 2020

Agenda Item:F2

Ordinance

(Action Item)

Agenda Description:

Discuss, consider, and take action on a Zoning Change application filed by Charles & Mecca Cagle regarding the rezoning of 2 tracts of land located in the J.H. Cooper Survey, Abstract 145, is a 1.59- acre tract of land located at the Southwest corner of Conveyor Drive and County Road 800-A, from the Agricultural District to the R-1, Single-Family Residential District.

Background Information:

This property is 2 tracts of land 1.59 acres (one tract being 0.59 acres and the other 1.00 acres). This property was annexed into the City many years ago with the zoning of Agricultural.

Property owners Charles and Mecca Cagle of 510 Conveyor Drive gift deeded a one (1) acre tract of land to their daughter Leshawn Sims. In order for Ms. Sims to obtain a building permit to construct a single family residential home on her one (1) acre parcel, she will have to plat the property. Before obtaining a plat she has to have the proper zoning in place. Both parcels are included in this request to bring them into conformance with the lot sizes needed for the district.

Although we don't require both parcels to be platted, if the Cagle's ever wish to construct additions to their property, they will have to conform to the platting of the property as well, but they will already have the proper zoning.

The Future Land Use Plan as shown in the adopted Comprehensive Plan of the City designates this area as low-density residential. The proposed rezoning request complies with the Future Land Use Plan.

The Planning and Zoning Commission unanimously approved the rezoning request on July 6, 2020, and has made a recommendation to the City Council for approval.

Financial Information:

Only cost associated with the zoning change request is the publication expense and mailing of public hearing notices to property owners within 200 ft. as required by law.

City Contact and Recommendations:

Aaron Maldonado, Director of Development Services

Staff recommends approval

Attachments:

1. Zoning Change Application
2. Explanation Letter
3. Maps

CITY OF JOSHUA, TEXAS

ORDINANCE NO.

AN ORDINANCE OF THE CITY OF JOSHUA, TEXAS, AMENDING THE OFFICIAL ZONING MAP BY CHANGING THE ZONING CLASSIFICATIONS OF PROPERTY LOCATED AT 510 CONVEYOR DRIVE IN THE CITY OF JOSHUA, TEXAS, CONSISTING OF APPROXIMATELY 1.59 ACRES OF LAND MORE PARTICULARLY DESCRIBED AS ABSTRACT 145 J.H. COOPER SURVEY IN THE CITY OF JOSHUA, JOHNSON COUNTY, TEXAS, FROM THE AGRICULTURAL DISTRICT (A), TO SINGLE-FAMILY-RESIDENTIAL DISTRICT (R-1); REPEALING ALL CONFLICTING ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY; PROVIDING FOR PUBLICATION; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, after public notice and public hearing as required by law, the Planning and Zoning Commission of the City of Joshua, Texas, has recommended a change in zoning classification on the property described herein and has recommended amending the City's official zoning map regarding the granting of a Conditional Use Permit; and

WHEREAS, all legal requirements, conditions and prerequisites have been complied with prior to this case coming before the City Council of the City of Joshua, Texas; and

WHEREAS, the City Council of the City of Joshua, Texas, after a public notice and public hearing as required by law, and upon due deliberation and consideration of the recommendation of said Planning and Zoning Commission and of all testimony and information submitted during said public hearing, has determined that, in the public's best interest and support of the health, safety, morals and general welfare of the citizens of the City, the zoning of the property described herein shall be changed to allow for a Zone Change on said property, and that the official zoning map of the City of Joshua, Texas, shall be amended to reflect the rezoning of the property herein described.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JOSHUA, TEXAS, THAT:

SECTION 1

All of the above premises are found to be true and correct legislative and factual determinations of the City of Joshua, Texas, and are hereby approved and incorporated into the body of this Ordinance as if copied in their entirety.

SECTION 2

From and after the effective date of this Ordinance, the property described herein shall be rezoned as set forth in this section, and the official zoning map of the City of Joshua, Texas, is hereby amended and changed in the following particulars to reflect the action taken herein, in order to create a change in the zoning classification of the property described herein, as follows:

That the property located at 510 Conveyor Drive, more particularly described as Abstract 145 J.H. Cooper Survey in the City of Joshua, Johnson County, Texas, presently zoned as Agricultural (A) District is hereby changed to Single-Family Residential (R-1) subject to a pursuant to the terms and provisions of the City's Zoning Ordinance, contained in Exhibit A to Chapter 14 of the City's Code of Ordinances.

SECTION 3

This Ordinance shall be cumulative of all provisions of ordinances of the City of Joshua, Texas, except where the provisions of this Ordinance are in direct conflict with the provisions of such ordinances, in which event the conflicting provisions of such ordinances are hereby repealed.

SECTION 4

It is hereby declared to be the intention of the City Council that the phrases, clauses, sentences, paragraphs and sections of this Ordinance are severable, and if any phrase, clause, sentence, paragraph or section of this Ordinance shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs and sections of this Ordinance, since same would have been enacted by the City Council without the incorporation in this Ordinance of any such unconstitutional phrase, clause, sentence, paragraph or section, and said remaining portions shall remain in full force and effect.

SECTION 5

Any person, firm or corporation who violates any provision of this Ordinance or of the site plan attached hereto shall be deemed guilty of a misdemeanor and, upon conviction, shall be punished by fine not to exceed the sum of two thousand dollars (\$2,000.00) for each offense, and each and every day such violation shall continue shall constitute a separate offense.

SECTION 6

This Ordinance shall take effect and be in full force from and after its passage and publication, as provided by the Revised Civil Statutes of the State of Texas.

DULY PASSED AND APPROVED by the City Council of the City of Joshua, Texas, this the 16th day of July, 2020.

Joe Hollarn, Mayor

ATTEST:

Alice Holloway, City Secretary

APPROVED AS TO FORM AND CONTENT:

Terrence S. Welch, City Attorney

STAFF REPORT

To: Mayor Hollarn and Members of the City Council

From: Karen K. Mitchell, Planning Consultant

Via: Joshua Jones, City Manager

Date of Meeting: July 16, 2020

RE: Amendment to the Subdivision Ordinance regarding location of easements

HISTORY: The Subdivision Ordinance which was adopted in 2018 has been amended several times for various reasons; including compliance with state mandated changes as well as stream-lining the process for the development community and citizens of Joshua. This amendment; however, is requested due to the policy changes of certain utility districts that now has an impact on the City of Joshua's development capabilities.

ANALYSIS: When platting a piece of property for potential development, one of the many requirements is to show the location of all existing and proposed utility and drainage easements. Over the last couple of years, Johnson County Special Utility District (JCSUD) has been mandating that they have a separate easement from the other franchise utilities. Additionally, because we don't have a provision stating "where" we would like to have these franchise utility easements, JCSUD has mandated "where" their easement will be located.

Two (2) recent cases where this has had an impact on the City's zoning regulations were DBAT and Burger King. The City's landscape regulations are specific as to where trees and shrubs are to locate; however, because of the location of the JCSUD easement, the utility district prohibited trees and certain shrubs from locating within its easement. In the case of Burger King (Joshua Station Overlay District)- the way around this was for the City to ask Burger King to contact TXDOT and enter into a lease agreement with the State to place their landscaping within the state's ROW. Because the water main is already constructed along Broadway, new developments may all be impacted by the location of the JCSUD easement. Had this easement been located within the ROW of Broadway, the utility district would not have a say so in where the landscaping could locate. Additionally, because they are mandating that they have an exclusive easement, meaning they will not share with other utilities, this causes the entire front part of a property to be consumed with large easements.

The purpose of our requested amendment is two-fold. One, is to be able to accommodate the franchise utility companies by requiring their easements to locate within ROW, which is where most cities require utilities to be located; and, to accommodate the property owner and City by allowing the front yards to be landscaped without encumbrances. The second reason is to allow the City to authorize shared easements and not allow a utility company to dictate their exclusion of sharing with other franchise utilities.

According to our City Attorney: Section 7216.104 of the Special District and Local Laws Code provides that "if a municipality asserts regulatory authority, including water quality standards, over a geographic area located within the district's jurisdiction, the municipality's regulation controls over the district's regulation if there is a regulatory conflict".

RECOMMENDATION: Staff recommends approval of this amendment to the Subdivision Ordinance.

CITY OF JOSHUA, TEXAS

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF JOSHUA, TEXAS, AMENDING SUBPART (6) OF SUBSECTION (A), "GENERALLY," OF SECTION 10.3.1, "EASEMENTS," CONTAINED IN THE CITY'S SUBDIVISION ORDINANCE, EXHIBIT "A" TO ARTICLE 10.02.001, "SUBDIVISION ORDINANCE," OF CHAPTER 10, "SUBDIVISION REGULATION," OF THE CODE OF ORDINANCES OF THE CITY OF JOSHUA, TEXAS; MAKING FINDINGS; PROVIDING FOR SEVERABILITY, SAVINGS AND REPEALING CLAUSES; PROVIDING FOR PENALTIES; PROVIDING AN EFFECTIVE DATE; AND PROVIDING FOR THE PUBLICATION OF THE CAPTION HEREOF.

WHEREAS, the City of Joshua, Texas ("City"), is a home-rule municipality under the laws of the State of Texas and is duly incorporated; and

WHEREAS, the City possesses the full power of self-government, as authorized by the Texas Constitution and the City's duly adopted Charter; and

WHEREAS, by adoption of this Ordinance, the City wishes to make clear that all water and wastewater utility lines shall be located in the street right-of-way, unless otherwise approved by the City Engineer; and

WHEREAS, Section 7216.104, "Conflict with Municipal Ordinances," of Chapter 7216, "Johnson County Special Utility District," of the Texas Special District Local Laws Code provides, in subpart (a) thereof, that "[i]f a municipality asserts regulatory authority . . . over a geographic area located within the district's jurisdiction, the municipality's regulation controls over the district's regulation if there is a regulatory conflict"; and

WHEREAS, the requirement for the placement of water and wastewater utility lines in street right-of-way, unless otherwise approved by the City Engineer, is a regulatory measure deemed necessary by the City; and

WHEREAS, the foregoing requirement shall apply to the Johnson County Special Utility District, the Bethesda Water Supply Corporation, and any other future utility provider that may provide water and wastewater utility services in the City; and

WHEREAS, the City Council, on behalf of Joshua and its citizens, further has determined that the following amendments will promote the orderly, safe and efficient growth of the City and the City's extraterritorial jurisdiction.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JOSHUA, TEXAS, THAT:

SECTION 1

All of the above findings are hereby found to be true and correct and are hereby incorporated into the body of this Ordinance as if fully set forth herein.

SECTION 2

From and after the effective date of this Ordinance, Subpart (6) of Subsection (a), "Generally," of Section 10.3.1, "Easements," of the City's Subdivision Ordinance, contained in Exhibit "A" to Article 10.02.001, "Subdivision Ordinance," of Chapter 10, "Subdivision Regulation," of the Code of Ordinances of the City of Joshua, Texas, are hereby amended to read as follows:

"SECTION 10.3.1 EASEMENTS

A. Generally.

* * *

6. The width of easements required for utility providers other than the City, such as for gas, electric, telephone, cable television or Internet, and any pipe, main, conduit, line, cable or similar structure associated therewith, shall be as required by that particular entity. It shall be the applicant's responsibility to determine appropriate easement widths required by other utility providers. Notwithstanding the foregoing, all water and wastewater lines shall be located in street right-of-way; however, horizontal alignments for water and wastewater lines may be altered upon approval by the City Engineer.

* * *"

SECTION 3

Should any section, subsection, sentence, clause or phrase of this Ordinance be declared unconstitutional or invalid by a court of competent jurisdiction, it is expressly provided that any and all remaining portions of this Ordinance shall remain in full force and effect. The City Council hereby declares that it would have passed this Ordinance, and each section, subsection, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional or invalid.

SECTION 4

All provisions of any ordinance in conflict with this Ordinance are hereby repealed to the extent they are in conflict; but such repeal shall not abate any pending prosecution for violation of the repealed ordinance, nor shall the repeal prevent a

prosecution from being commenced for any violation if occurring prior to the repeal of the ordinance. Any remaining portions of said ordinances shall remain in full force and effect.

SECTION 5

Any person, firm, corporation or business entity violating this Ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be subject to a fine not to exceed the sum of Five Hundred Dollars (\$500.00), and each and every day such violation shall continue shall constitute a separate offense.

SECTION 6

This Ordinance shall become effective from and after its passage and publication.

DULY PASSED, APPROVED, AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF JOSHUA, TEXAS, ON THIS 21ST DAY OF MAY, 2020.

Joe Hollarn, Mayor

ATTEST:

Alice Holloway, City Secretary

APPROVED AS TO FORM AND LEGALITY:

Terrence S. Welch, City Attorney



City Council Agenda

July 16, 2020

Agenda Item: F4

Ordinance

(Action Item)

Agenda Description:

Discuss, consider, and take action on a waiver application filed by Sherry Kemp regarding the height requirements of a privacy fence.

Background Information:

On June 16, 2020, Sherry Kemp filed a waiver application regarding her privacy fence. The installed fence is 8ft. in height which exceeds the allowed height of 6ft. by ordinance. The resident is asking approval from City Council.

Sec. 3.05.003 Shall not exceed six feet (6') in height unless prior and specific approval has been granted by the city council. Requests for a waiver of this requirement must be made in writing and include specific justification, comprehensive plan drawings, and such other information requested and/or required by the city council. Erected enclosures shall not exceed eight feet (8') in height.

The fence was constructed at or near the end of January 2020, and the City Code Officer was alerted and made contact with the homeowners, which they claimed they were unaware of the waiver and permitting process. The Code Officer proceeded with issuing a citation of an improper fence on January 30, 2020. The homeowner pled guilty and has paid the fine of \$131.00 on June 11, 2020.

Financial Information:

NA

City Contact and Recommendations:

Aaron Maldonado, Director of Development Services
Staff recommends approval

Attachments:

1. Waiver Application
2. Explanation Letter
3. Pictures

CITY OF JOSHUA
WAIVER APPLICATION



City Secretary's Office, 101 S. Main Street, Joshua, TX 76058
Phone: (817) 558-7447 Fax: (817) 614-7526

Form must be completed in ink or typed.

Applicant Name: Sherry Kemp
Home Phone: N/A Cell Phone: 817-999-1098
Mailing Address: 300 Shelby Ln Joshua Tx, 76058
Property Owner Name: Sherry Kemp / Christopher Kemp
Home Phone: N/A Cell Phone: 817-999-1098
Mailing Address: 300 Shelby Ln Joshua Tx 76058
Property Address: 300 Shelby Ln Joshua Tx 76058 Lot Size: _____
Property Legal Description: _____

NOTE: Attach metes and bounds description should the property not be platted.

Zoning District: _____ Ordinance Section that Waiver is being requested: _____

Has a previous application or appeal been filed on this property? Yes _____ No ☒

If yes, date of application: N/A Outcome: N/A

Explain the reason(s) and/or justification(s) for the requested waiver: For the purposes of safety
'Security' we have kids and a grandbaby and dogs.
With the old fence you could see into our backyard
perfectly while at the park across the street and
while coming down the Hill driving on Main St. At
night you could even see in our living room when
the blinds were open. The park gets all kinds of
traffic after hours "Weird movements of things
going on. (explanation continued on separate page)

I certify that the above information is correct and complete to the best of my knowledge and ability and that I am now or will be fully prepared to present the above proposal at the City Council meeting.

I understand that in the event the undersigned is not present or represented at the meeting the City Council shall have the power to dismiss this proposal either at the call of the case or after hearing and such dismissal shall constitute a denial by the Council.

I reserve the right to withdraw this proposal at any such time upon written request filed with the City Secretary and such withdrawal shall immediately stop all proceedings. I further understand that the filing fee is non refundable and the procedure will begin anew upon the re-filing of the request.

Applicant Signature: Sherry Kemp Date: 6-16-20



**City Council
Owner Affidavit**

This is to certify that

Christopher Kemp / Sherry Kemp, the stated undersigned, is/are the sole owner(s) of the property described in this application, and that I/we fully aware of the application being presented to the City Council.

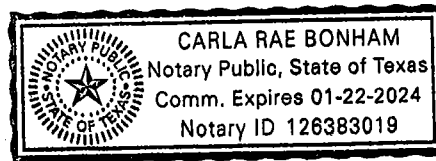
Christopher Kemp
Owner signature

Sherry Kemp
Owner signature

State of Texas §
County of Tarrant §

BEFORE ME, THE UNDERSIGNED AUTHORITY, on this day personally appeared Christopher / Sherry Kemp, known to me to be the person(s) whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 16 day of June, 2022.

Carla Bonham
Notary Public in and for the State of Texas



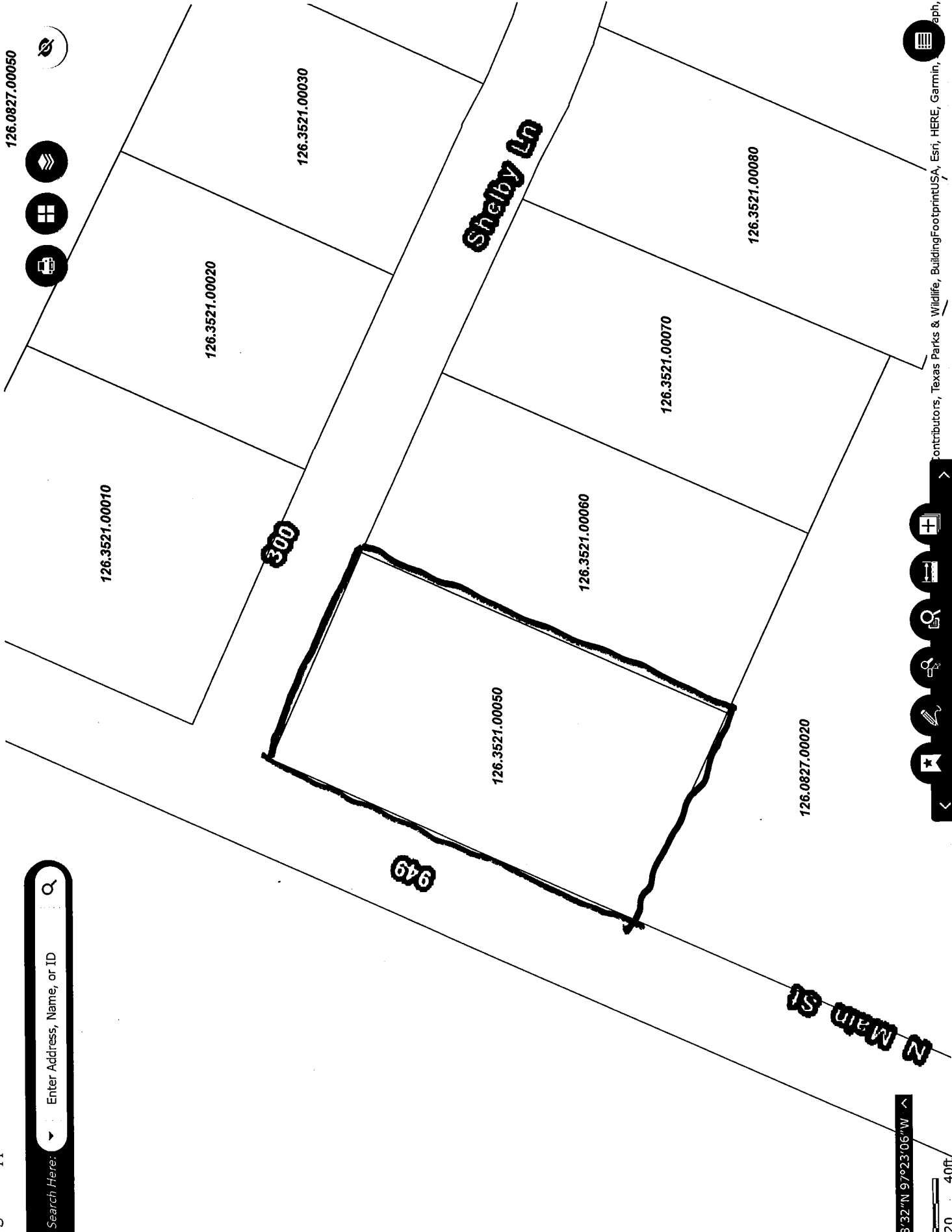
SEAL

We purchased our home 300 Shelby Ln, Joshua Texas, 76058 in August 2019. When we bought the house we knew the fence would need to be replaced, but we focused on other things that needed done 1st. My husband Chris Kemp would have to do weekly perimeter checks around the fence just to make sure it was safe and the dogs couldn't get out while we were at work. We knew we wanted to replace the fence with an 8ft for privacy and security since we do have children and a young granddaughter along with dogs. Prior to getting the fence put up we had a bad storm that hit Friday night January 10, 2020. My husband and I were not home but friends in the area texted and said a tornado had touched down by Chisholm Trail and the winds got very bad here. We were so worried that the fence would have been on the ground when we got home and our dogs loose so we called the fence guy and wanted the fence done sooner than later. Our original reasons for wanting an 8ft versus 6 ft. is not just due to it falling apart but we are on the main rd. main st and also directly across from the Joshua City Park. When you leave downtown Joshua area and are coming down main st, everyone could see our entire back yard and back porch, could even see in our living room at night if we had the blinds open. This also was the case when you are at the Joshua City Park, everyone walking along the path and at the pond had a perfect view into our backyard. There is a picture on Facebook under Joshua residents talking, they had a fishing tournament posted with pictures on October 27, 2019 and our back yard was very visible and concerning for us. Even prior to purchasing the house this was our concern especially with our military and law enforcement back grounds, but we knew we could fix that, not knowing Joshua had fence height restrictions. We moved from Burleson where 8ft was very common and allowed. Our house also in the very back behind our fence is a dark easement area. One night someone was back there late and hitting our fence as they passed by with something. Our 2 large dogs immediately rushed to the back yard and were in protective mood. It was then that I started seeing in the Facebook group Joshua residents about a homeless man that stays in the park at night and carries a sword (pic attached). Also the longer we were in our home we started noticing all the weird traffic and movement that occurs in the baseball field parking lot on a nightly basis (suspicious looking). All these reasons began to make us want this fence even more to be put up sooner than we planned. There was also tons of talk about coyotes at night and with our previous fence there was no safety. We even saw coyote prints along our fence line several times. Now with the fence up we have all the safety and security for our family that we need knowing that all traffic at the park and going down the street can't see in our backyard and even extra protection if a vehicle was to ever run off the road possibly the fence would stop it prior to hitting our house. We do currently have a trampoline that we put up after the fence because we waited until everyone couldn't see in our back yard for the kids to be able to go out there and jump. We also talked about getting a pool and wanted the fence done before that as well. We are aware of other houses in the area that do have 8ft fences including our neighbor 303 Shelby LN, who just got approved for an 8ft and they are not even a corner house. We hope that everyone involved in this decision can understand our reasons for wanting to have a 8ft fence and forgiving us for not obtaining a permit prior to due to our lack of experience in home ownership. We didn't think replacing an existing fence needed a permit but now we do. As previously mentioned the storm hit and we immediately called the fence guy that week and he started it Friday, so it was all spur of the moment decision making, and when something was mentioned about a permit Friday I went up to the Courthouse while the fence guys were doing the work but yall were closed so Monday morning I sent an email trying to correct our mistake and see what we needed to do since I was at work Monday and Tuesday, plan was to try to come in

Wednesday my off day and purchase a permit. Got home from work Monday evening and we had a code compliance yellow warning notice on our door. Thank you so much for taking the time to see our reasoning for wanting to keep our fence up.

Sherry and Chris Kemp

Search Here:



Arden McKinley III • Joshua
Residents Talking

11:01 - 11:02

- talking to himself



Arden McKinley

I've seen him hanging out and laying on the bench at the Joshua park also talking to himself. Creepy.

To Like Reply



Chris Bishop

He's the same guy that was camped out in the parking ashley back beside the dollar store in the churches pumpkin field he does talk to himself a lot I see him all over town arguing with imaginary ppl

To Like Reply



Joseph Nichols

Chris Bishop his ass has been staying in the park now I see him walking out of the park every morning...

To Like Reply



Chad Lawrence

Has the Highlander... there can be



Write a comment...



*Plenty More Comments

Continued but just same stuff he argues to himself, carries a sword and his mood fluctuates

- talking to himself with
- talking to himself
and
- imaginary
- talking to himself
every morning
- talking to himself
every morning



Old Fence
(View on Main St
can see Our backyard
and Back porch
perfectly)

Old Fence





Old Fence

New Fence



8:58



Andrew McCreary III - Joshua
Residents Talking

11 hrs · 11

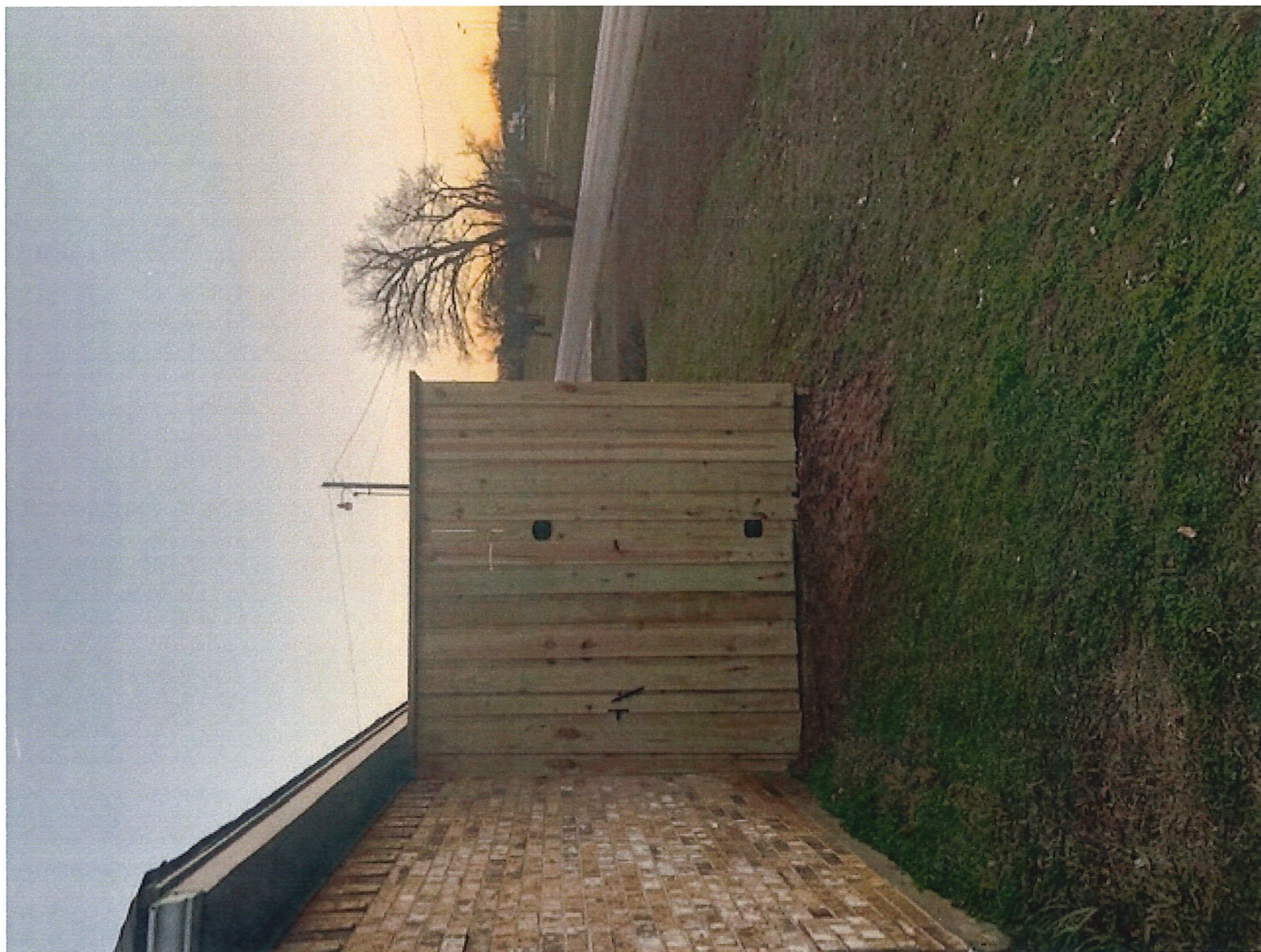
Pretty sure that's a real Homeless Person Made...
You'll be safe Joshua-way.



Write a comment...



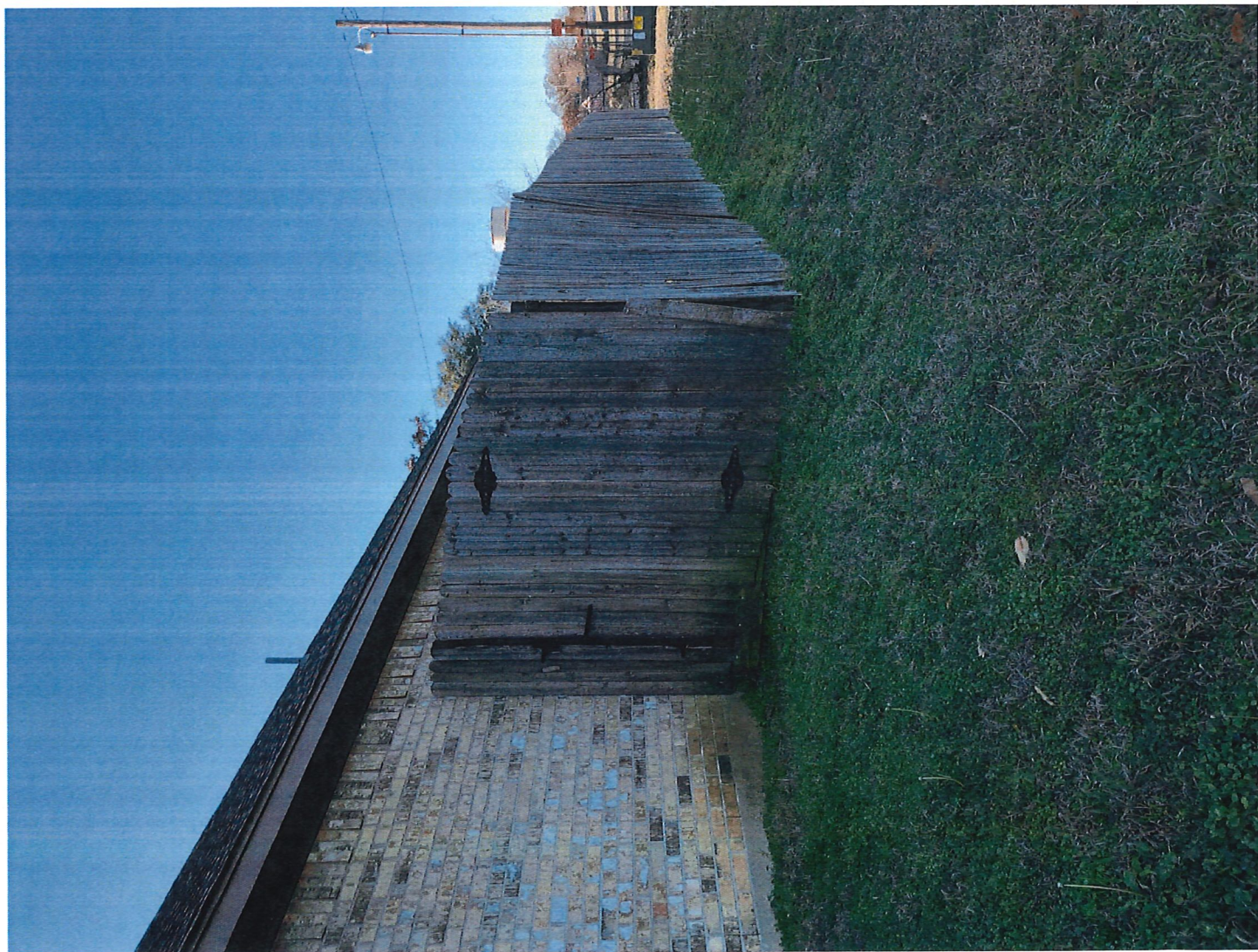
New Fence







Old Fence





Old Fence

Old Fence

(Coming down main st
Could see in our backyard)





City Council Agenda July 16, 2020

Agenda Item: F5

Agreement

(Action Item)

Agenda Description:

Discuss, consider, and take action on an agreement between the City of Joshua and Johnson County for Election Services for the November 3, 2020 General Election; and authorize the Mayor to sign all necessary documents.

Background Information:

The City Council passed an ordinance to postpone the May 2, 2020 General Election to November 3, 2020 in response to VOVID-19. November election dates require additional polling location and the City does not have the personnel to accomplish all the requirements.

Johnson County provided two quotes for election services. Once quote was for a separate ballot with 1 early voting location and 12 Election Day locations. The second quote was for a shared ballot with the county and provided 8 early voting locations and 12 Election Day locations.

The contract for election services is attached as well as the quote for services. There are expected savings not reflected in the quote. Johnson County could not provide the fullest of entities contract for November election services since the time for executing those contracts is the end of July. Other entities contracting will add to the saving due to shared services.

Financial Information:

Cost for the November election is an estimate between \$6,000- \$9,000 and will be budgeted in the Fiscal year 2021. In addition, it is possible that the City may be reimbursed by the COVID Cares Act.

City Contact and Recommendations:

Alice Holloway, City Secretary

Staff recommends approval of agreement

Attachments:

1. Agreement
2. Quote

**ELECTION AGREEMENT
FOR JOHNSON COUNTY AND CITY OF JOSHUA
NOVEMBER 3, 2020**

THIS AGREEMENT is made and entered into this ____ day of _____ 2020, by and between the COUNTY OF JOHNSON, TEXAS, acting by and through the JOHNSON COUNTY ELECTIONS ADMINISTRATOR (hereinafter referred to as "COUNTY") and CITY OF JOSHUA acting by and through its Mayor or his designee (hereinafter referred to as "CITY").

WHEREAS, the COUNTY will be conducting the "CITY" General Election on November 3, 2020 for registered voters of Johnson County, Texas residing within City; and

WHEREAS, pursuant to Sec. 31.093, Texas Elections Code, the County Elections Administrator is required to enter into a contract with CITY to conduct and furnish election services for this November 3, 2020 General Election of CITY: and

WHEREAS, CITY desires that the Johnson County Elections Administrator conduct and coordinate this election; NOW THEREFORE,

FOR AND IN CONSIDERATION of the mutual project referenced herein, the parties hereto agree to hold an election on November 3, 2020 from 7:00 a.m. until 7:00 p.m., in accordance with Section 271.002, Texas Election Code, and that said election to be conducted pursuant to the terms of this agreement.

I. AGREEMENT

GENERAL TERMS:

- 1.01 On November 3, 2020, the election shall be held from 7:00 AM until 7:00 PM, that day, at the location listed on Exhibit B.
- 1.02 The political subdivision participating in the election on November 3, 2020, shall have and use the election Judges and ES&S AutoMark voting equipment.

II. JOHNSON COUNTY

- 2.01 The COUNTY agrees to coordinate, supervise, and conduct the Election, pursuant to the provisions of the Texas Election Code unless specifically provided otherwise in this Agreement with the understanding that the Election is only for the registered voters of Johnson County, Texas residing within the CITY
- 2.02 The Elections Administrator shall perform the following duties:
- a. Designate voting locations and contact the owners or custodians of public (or if unavailable, private) buildings and arrange for their use. Such voting locations shall be furnished to CITY as soon as possible.
 - b. Appoint, notify, and train the presiding judges and alternate judges and clerks. The names and addresses of each judge and alternate judge and clerk shall be furnished to the CITY at a later date.
 - c. Compensate election judges, alternate judges and clerks.
 - d. Transport voting equipment to and from each polling location.
 - e. Rent, if necessary, voting locations.
 - f. Provide lists of registered voters to the election judges.
 - g. Preparation of programs and test materials for tabulation of the ballots to be used with electronic voting equipment in accordance with the provisions of the Texas Election Code and of this Agreement.
 - h. Publish notice of the date, time, and place of the testing of the electronic tabulation equipment and conduct such testing.

III. EARLY VOTING AND ELECTION DAY VOTING

3.01 Early Voting by Personal Appearance

- a. The Elections Administrator, Patty Bourgeois shall serve as Early Voting Judge for the CITY General Election and other judges and clerks shall be appointed by her as needed.
- b. Early Voting by personal appearance shall be conducted at the location listed on Exhibit A. All eligible voters in the City of Joshua may vote early at the Burleson Sub-Courthouse, 247 Elk Dr., Burleson, Texas 76028.

- c. Early Voting by personal appearance will begin on October 19, 2020, and will end on October 30, 2020. There will be early voting on Saturdays, Sundays, or legal holidays, unless otherwise agreed to by the parties.
- d. Temporary extended hours at those sites listed as in sec: 85.005 of the Election Code.

3.02 Early Voting By Mail:

- a. The COUNTY shall be responsible for early voting ballot requests by mail.
- b. CITY shall forward any requests by mail applications to the COUNTY.
- c. The COUNTY shall be responsible for all preparation of mail ballots including mailing ballot to voter.

3.03 The Ballot Board Judge for the CITY shall be as designated by the COUNTY. The Early Voting Ballot Board's duties will include:

- (1) Serve as Signature Verification Committee
- (2) Prepare the mail ballots for tabulation.
- (3) Convene to count provisional ballots and late ballots from out of the country, if any. (7th day or earlier after Election Day).

3.04 Election Day Voting:

The COUNTY shall be responsible for the following:

- a. Procure, prepare, and distribute supplies and the ES&S AutoMark and other election equipment for personal appearance on Election Day.
- b. Procure, prepare, and distribute Election Day supplies, tables, chairs if needed, and equipment, including ballots.
- c. Supervise the handling and disposition of election returns, tabulate unofficial returns, and assist in preparing the tabulation for the official canvass.
- d. Prepare the canvass report after all precincts have been counted and make available a copy of the appropriate part of the tabulation report.
- e. Conduct the manual count.

- 3.05 Serve as custodian of election records and store election records as provided by Section 66.058 of the Texas Election Code for a period of 22 months.

IV. CITY

CITY shall have the following responsibilities in conducting this election on November 3, 2020

- 4.01 Prepare any election orders, resolutions, notices, writ of election, and other pertinent documents for adoption for execution by the appropriate officer; and take all actions required by law for calling the election, handling contests, canvassing the returns, and declaring the results of the election.
- 4.02 Prepare and publish information for the required election notice.
- 4.03 Deliver to the Elections Administrator the official wording, including Spanish translation, to be printed on the optical scan ballot. All documents must be delivered to the County Elections office by the 18th day of August 2020. If the documents are not received by the above date this Election Agreement will be terminated and County will have no obligations regarding the above referenced election.
- 4.04 Approve final optical scan ballot wording for content, form, and spelling.
- 4.05 Prepare and publish the Notice of Election, which is the required and described method of giving notice in accordance to Texas Election Code (Sec 4.003(a) (1).
- 4.06 Provide maps and other reference guides.
- 4.07 Assist the Election Administrator with providing Election Personnel.
- 4.08 Pursuant to Texas Election Code Sec. 67.003, canvass the official results between the 3rd and 11th day following the election.

V. PAYMENT FOR SERVICES

- 5.01 In consideration for the services and expenses provided by the County for conducting this election, the County shall be reimbursed for the optical scan ballots, ballot layout, media, coding the ES&S AutoMark equipment, M650 optical scan equipment, voting supplies, Election Judges, Clerks, Central Count, Ballot board, a 10 % administration fee, and any other expenses listed on Exhibit C.
- 5.02 Should a recount be required, those costs associated with the recount, if any, shall be in accordance with the provisions of the Texas Election Code.
- 5.03 The official for parties to contact for all purposes shall be listed at the end of the Agreement. All notices and other deliveries under the Agreement shall be delivered to said individual so listed.

VI. RUN-OFF ELECTION

- 6.01 In the event there is a run-off election, this Agreement shall be extended for the time necessary to conduct the run-off election and the CITY and COUNTY agree to continue to perform their respective responsibilities as set forth in this Agreement as are applicable to a run-off election. CITY will be responsible for any and all additional costs associated with the run-off election incurred by COUNTY. Any additional costs owed to COUNTY by CITY will be invoiced by COUNTY and CITY agrees to pay said invoiced amount within thirty (30) days of receipt of the invoice from COUNTY.

VII. TERMINATION IF ELECTION IS CANCELED

- 7.01 In the event that the election is canceled due to all candidates being unopposed, County and CITY agree that this Agreement will be terminated and CITY will owe a cancellation fee of \$75.00 to be paid by CITY within thirty (30) days of said cancellation.

ACCEPTANCE:

On behalf of Johnson County Elections Administration, I hereby accept the terms of the Agreement.

Signed the _____ day of _____, 2020.

Patty Bourgeois
Elections Administrator
Johnson County, Texas

On behalf of City of Joshua, I hereby accept the terms of this Agreement.

Signed the _____ day of _____, 2020.

Joe Hollarn, City of Joshua
Mayor

IN WITNESS WHEREOF, the above Agreement was adopted at a meeting of the Commissioner's Court of Johnson County on the _____ day of _____, 2020.

COUNTY OF JOHNSON

County Judge
Johnson County Commissioners
Court

Officials for notice:
Patty Bourgeois
Elections Administrator
Johnson County
P.O. Box 895
Cleburne, Texas 76033

Joe Hollarn, City of Joshua
Mayor
101 S Main St.
Joshua, Texas 76058

EXHIBIT A

**CITY OF JOSHUA GENERAL ELECTION
NOVEMBER 3, 2020
EARLY VOTING POLLING LOCATION
(ELECCIÓN GENERAL CITY OF JOSHUA
3 DE NOVIEMBRE DEL 2020
CENTRO PARA VOTACIÓN ADELANTADA)**

October 19, 2020 through October 30, 2020 is the period for early voting by personal appearance (Sec. 85.001). Any voter qualified to vote in the November 3, 2020, City of Joshua General Election is eligible for early voting by personal appearance.

Early voting by personal appearance will be conducted at all following location:
Monday, October 19, 2020 – Friday, October 23, 2020 hours: 8:00 am until 5:00 pm
Monday, October 26, 2020 - Friday, October 30, 2020 hours: 7:00 am until 7:00 pm
*(El plazo para la votación adelantada en persona es desde el 19 de Octubre hasta el 30 de Octubre del 2020 (Sec. 85.001). Cualquier votante calificado para votar en Elección General City of Joshua del 3 de Noviembre del 2020, es elegible para la votación adelantada en persona. La votación adelantada en persona se llevará a cabo en todas las siguiente ubicacion:
Lunes, 19 de Octubre del 2020 – Viernes, 23 de Octubre del 2020; horas: 8:00 am hasta 5:00 pm
Lunes, 26 de Octubre del 2020 - Viernes, 30 de Octubre del 2020; horas: 7:00 am hasta 7:00 pm)*

Hours for additional weekend early voting will be extended at the early voting location to include:

Saturday October 24, 2020, 7:00 am to 7:00 pm.

Sunday October 25, 2020, 11:00 am to 4:00 pm

(Las horas adicionales para la votación adelantada durante el fin de semana serán extendidas en la ubicacione para votación adelantada incluyendo:

Sábado, 24 de Octubre del 2020, 7:00 am hasta 7:00 pm

Domingo, 25 de Octubre del 2020, 11:00 am hasta 4:00 pm)

Early Voting

**Burleson Sub-Courthouse
(Burleson Sub-Palacio de justicia)
247 Elk Dr.
Burleson, Texas 76028**

EXHIBIT B

**CITY OF JOSHUA GENERAL ELECTION
NOVEMBER 3, 2020
POLLING LOCATIONS
7:00am -7:00pm
(ELECCIÓN GENERAL CITY OF JOSHUA
3 DE NOVIEMBRE DEL 2020
CENTROS DE VOTACIÓN)**

Pct. 2	NorthPointe FBC of Joshua <i>(NorthPointe FBC de Joshua)</i> 2450 SW Wilshire Blvd. Burleson, Texas 76028
Pct. 12	Joshua Baptist Church <i>(Iglesia Bautista de Joshua)</i> 3231 SW Wilshire Blvd. Joshua, Texas 76058
Pct. 13	Lane Prairie Baptist Church <i>(Iglesia Bautista Lane Prairie)</i> 412 CR 704 Joshua, Texas 76058
Pct. 29	Joshua HS South Trust Community Rm. <i>(Salon Comunitario Southtrust de Joshua HS)</i> 907 S. Broadway Joshua, Texas 76058
Pct. 31	Joshua Community YMCA <i>(Comunidad Josué YMCA)</i> 1009 Joshua Station Blvd. Joshua, Texas 76058

Exhibit C

COST OF SERVICE. The City of Joshua shall pay for services , supplies, and equipment in accordance with the following estimated cost schedule. The City of Joshua will be liable to pay all the expense that have endured; and a 10% administration fee.

THE CITY OF JOSHUA: 2020 NOVEMBER 3rd

Contracted Election with Johnson County/Separate Ballots 1 EV & 5 ED Location.
Pct. 2, 12, 13, 29, & 31

1. VOTING EQUIPMENT, TABULATION NOTICE, AND BUILDING RENTAL		Estimated	Actual
SC	(X) Rental M650 Optical Scanner	\$175.00	\$0.00
SC	(X) Rental ES&S Auto-Mark for HAVA Compliance. 5 @ 350.00	\$875.00	\$0.00
SC	(X) Programming Charges/Coding/Media/ shipping for 650 Central count & Auto-marks	\$750.00	\$0.00
	(X) Printing Ballots/Layout/Spanish Coding/ shipping	\$1,000.00	\$0.00
SC	(X) Publish Notice of Tabulation test	\$125.00	\$0.00
SC	(X) Building Rental.....	\$100.00	\$0.00
2. CENTRAL COUNT EXPENSES			
SC	(X) CC Station Manager.....	\$62.50	\$0.00
SC	(X) Tabulation Supervisor.....	\$75.00	\$0.00
SC	(X) Assistant Tabulation Supervisor.....	\$75.00	\$0.00
SC	(X) ENR Manager.....	\$50.00	\$0.00
SC	(X) ENR Assistant.....	\$37.50	\$0.00
SC	(X) ENR Assistant.....	\$37.50	\$0.00
SC	(X) CC Station Clerks 20 x \$11.00 x 6Hrs.....	\$660.00	\$0.00
SC	(X) Early Voting Ballot Board Judge 1 x \$13.00 x 32Hrs.....	\$208.00	\$0.00
SC	(X) Early Voting Ballot Board Personnel 8 x \$11.00 x 32Hrs.....	\$1,408.00	\$0.00
SC	(X) Provisional/Late Ballot Board Judge 1 x \$13.00 x 8Hrs.....	\$52.00	\$0.00
SC	(X) Provisional/Late Ballot Board Clerks 3 x \$11.00 x 8Hrs....	\$132.00	\$0.00
SC	(X) Security 4 x \$35.00 x 6Hrs.....	\$420.00	\$0.00
3. ESTIMATED EARLY VOTING AND ELECTION DAY COSTS			
	(X) Judge's Kit Early Voting 1 @ \$40.00.....	\$40.00	\$0.00
	(X) Ballot by Mail JOC: 200 @ \$5.00	\$1,000.00	\$0.00
	(X) Early Voting Judge @ 13.00 per hr for 140 hrs X 1 judges.....	\$1,820.00	\$0.00

Exhibit C

(X) Early Voting Clerks @ 11.00 per hr for 130 hrs		
X 3 clerks.....	\$4,290.00	\$0.00
(X) Early Voting mileage reimbursement	\$100.00	\$0.00
(X) Early Voting Pick up & delivery fee	\$25.00	\$0.00
(X) Judge's Kit Election Day 5 @ \$40.00.....	\$200.00	\$0.00
(X) Election Day Judge @ 13.00 per hr for 16hrs		
X 5 judges.....	\$1,040.00	\$0.00
(X) Election Day Clerks @ 11.00 per hr for 13 hrs		
X 15 clerks.....	\$2,145.00	\$0.00
(X) Election Day Pick up & delivery fee	\$125.00	\$0.00
(X) Supplies, toner cartridges, red seals, & etc	\$400.00	\$0.00
Subtotal	\$17,427.50	\$0.00
(X) CONTRACT ADMINISTRATIVE FEE COST		
10% of subtotal	\$1,742.75	\$0.00
TOTAL COST ...	\$19,170.25	\$0.00

****Shared Cost (SC) have been divided by 2 Entities (Johnson County & City of Joshua)

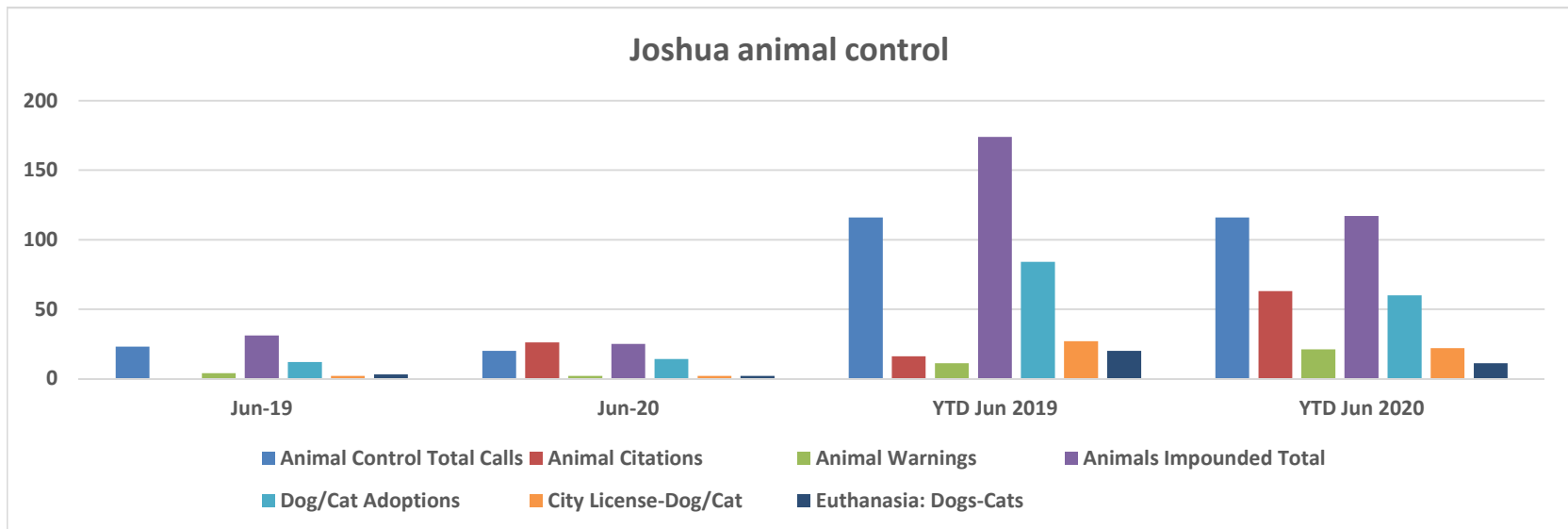
If other entities contract with Johnson County some share cost may change.

*** Per section: 7.01**

If the Election is canceled there will be a fee of \$75.00 to be paid by CITY within (30) days of said cancellation.

JOSHUA ANIMAL CONTROL ACTIVITY STATISTICS

	Jun-19	Jun-20	YTD Jun 2019	YTD Jun 2020
Animal Control Total Calls	23	20	116	116
Animal Citations	0	26	16	63
Animal Warnings	4	2	11	21
Animals Impounded Total	31	25	174	117
Dog/Cat Adoptions	12	14	84	60
City License-Dog/Cat	2	2	27	22
Euthanasia: Dogs-Cats	3	2	20	11



Incident Details Report

7/7/2020

Joshua Police Department

Categories:	Peer Recognition, Public Commendation, Public Recognition, Supervisor Commendation, Supervisor Recognition
Date Range:	6/1/2020 - 6/30/2020

Public Recognition

For: Smith, Patrick (P193)

Occurred: 6/25/2020

By: Short, Shaun (P181)

Entered: 6/26/2020

Facebook post commending officers for their assistance in moving a driver stuck in in the road at 917/174

Public Recognition

For: Sosebee, Leigh (P194)

Occurred: 6/25/2020

By: Short, Shaun (P181)

Entered: 6/26/2020

Facebook post commending officers for their assistance in moving a driver stuck in in the road at 917/174

Public Recognition

For: Sosebee, Leigh (P194)

Occurred: 6/25/2020

By: Smith, Patrick (P193)

Entered: 6/25/2020

On 06/25/2020, at approximately 0915, Ofc. Sosebee conducted a traffic stop on Mr. Calvin Johnson for no registration plate on the company trailer that he was pulling. Rather than simply issuing a citation, Ofc. Sosebee looked into the issue and was able to confirm that the trailer had been issued a new plate that matched the VIN number, but had not been installed. Mr. Johnson can be heard commending Ofc. Sosebee on her professionalism throughout the stop. Mr. Johnson also stated that he would like Ofc. Sosebee's chain of command would be notified. Interactions like these help to build strong community relations. Keep up the great work.

By: Short, Shaun (P181)

Entered: 6/26/2020

Outstanding!

Peer Recognition

For: Bright, Nicholas (P191)

Occurred: 6/9/2020

By: Short, Shaun (P181)

Entered: 6/11/2020

There was a posting on JRT Facebook recognizing Bright's efforts in a medical emergency that was occurring on the side of the road. Post is attached.

Public Recognition

For: Bacanskas, Chase (P185)

Occurred: 6/2/2020

By: Short, Shaun (P181)

Entered: 6/4/2020

On 06-04-2020 I received a phone call from Mr. Woodward. Mr. Woodward called to express his thanks for the help that officers provided when he was assaulted by his adult son. He mentioned that he was especially appreciative of the way Officer Lee explained what was going to happen to he and his wife.

Report #20-0202

Public Recognition

For: Lee, Christopher (P187)

Occurred: 6/2/2020

By: Short, Shaun (P181)

Entered: 6/4/2020

On 06-04-2020 I received a phone call from Mr. Woodward. Mr. Woodward called to express his thanks for the help that officers provided when he was assaulted by his adult son. He mentioned that he was especially appreciative of the way Officer Lee explained what was going to happen to he and his wife.

Report #20-0202

Public Recognition

For: Smith, Patrick (P193)

Occurred: 6/2/2020

By: Short, Shaun (P181)

Entered: 6/4/2020

On 06-04-2020 I received a phone call from Mr. Woodward. Mr. Woodward called to express his thanks for the help that officers provided when he was assaulted by his adult son. He mentioned that he was especially appreciative of the way Officer Lee explained what was going to happen to he and his wife.

Report #20-0202

June 2020

The Police Department's dispatched call numbers were up about 10% over May and still slightly down from 2019 levels. We had few reports of fraud this month in which the suspect in other jurisdictions attempted to deceive the victims using the internet to appropriate money. Victims have mostly been able to avoid monetary loss. We also had a theft of mail in the southwest part of the city where a witness observed the theft and who was subsequently arrested.

Sergeant Fullagar completed his field training in June so we are back to full supervisory staffing levels. Sgt. Fullagar is assigned to work an evening shift from 2p-2a.

The department continues to wait to put our new vehicles in service due to some computer equipment delayed by lower production associated with COVID 19. This is causing us to run some vehicles continuously. Our expectation is to put the new vehicles in service during July.

The department made some significant headway regarding records retention. During May employees were able to focus on identifying unneeded records and in June approximately 100 boxes of those records were disposed of.

Patrol

Category	June 2020	June 2019	2020 year to date
Dispatched Calls	225	247	1335
Arrests	12	11	51
Crash Reports	6	1	32
Traffic Stops	177	288	812
Citations	106	211	536
Outside LE Agency Assist	18	14	62
Reports	42	41	241

Investigations

Category	June 2020	June 2019	2020 year to date
Crimes Against Persons	4	4	27
Property Crime (Thefts, Damage)	10	4	51
Other (Drug or Alch/Missing/Deceased)	5	6	27
Total	19	14	105



Crime by Offense Type

Category	June 2020	June 2019	2020 year to date
Murder/Non-Negligent Homicide	0	0	0
Manslaughter by Negligence	0	0	0
Rape	0	0	0
Robbery	0	0	0
Assault	4	4	20
Burglary (bldg. and vehicle)	0	0	10
Larceny (theft, fraud)	7	4	22
Total	11	8	52

Training

Category	June 2020	Year to date
Computer Based	12 hrs	110.5
Classroom	0 hrs	88 hrs
Total	12 Hours	198.5 Hours

Community Outreach

Category	Date
The department has purposefully refrained from activities that could place staff or public at increased risk.	

Staffing

Category	Commissioned	Non-Commissioned	Animal Ctrl
Positions	13	2.5	2.5
Vacancies	1	0	0



Promotions and Hiring

This month we added a reserve officer Mr. Estevan Gomez. Mr. Gomez is a graduate student at UTA and completed the Tarrant County Police Academy as the class salutatorian. We are excited to have Mr. Gomez and he has begun the field training process with our agency.

Complaints and Commendations

Category	June 2020	June 2019	Year to date
Commendations	7	0	12
Complaints	0	0	1
	7	0	6

Police Fleet

Unit#-YR	Year/Make	Mileage	Service
81-07	2007/Chev	130,160	Investigations/Admin
82-10	2010/Chev	128,490	Investigations/Admin
83-13	2013/Chev	100,581	Patrol
84-16	2016/Ford	51,421	Patrol
85-17	2017/Ford	52,248	Patrol
86-19	2019/Ford	33,017	Patrol
87-20	2020/Chev	812	Patrol
88-20	2020/Chev	Not Received	Patrol

*84-16 has been out of service due to a fleet crash.



Joshua Fire Department

Memorandum #:

To: Josh Jones, City Manager

From: Thomas Griffith, Chief

Copy: Mike Peacock, Asst. City manager

Subj: Fire Department Incident Statistics – June 2020

Date: July 1, 2020

Below are the incident statistics for the month of June. The number of missed calls remains the same, although the percentage dropped by 1%. Please let me know if you have any questions.

	May 2020	June 2020
STAFFING LEVELS		
Total Calls For Month	93	101
Missed Calls	14 (15%)	14 (14%)
Adequately Staffed Calls	35 (38%)	43 (43%)
Without Adequate Staff	44 (47%)	58 (57%)
Average Response Time:	8:22	9:53
CITY/COUNTY/MUTUAL AID		
ESD Automatic Aid Received To City:	2	5
City Calls For Month	67 (72%)	56 (55%)
County Calls for Month	24 (26%)	37 (37%)
Mutual Aid for the Month	2 (2%)	7 (8%)
City Calls YTD	371 (70%)	427 (68%)
County Calls YTD	130 (25%)	167 (27%)
Mutual Aid Calls YTD (Giving)	28 (5%)	35 (6%)

City of Joshua
Municipal Court Council Report
From 6/1/2020 to 6/30/2020

7/1/2020 8:49 AM

Violations by Type

Traffic	Penal	City Ordinance	Parking	Other	Total
75	7	26	0	5	113

Financial

State Fees	Court Costs	Fines	Tech Fund	Building Security	Total
\$6,101.91	\$2,872.19	\$5,627.90	\$261.08	\$296.42	\$15,159.50

Warrants

Issued	Served	Closed	Total
6	0	9	15

FTAs/VPTAs

FTAs	VPTAs	Total
7	3	10

Dispositions

Paid	Non-Cash Credit	Dismissed	Driver Safety	Deferred	Total
36	0	12	10	11	69

Trials & Hearings

Jury	Bench	Appeal	Total
0	0	0	0

Omni/Scofflaw/Collection

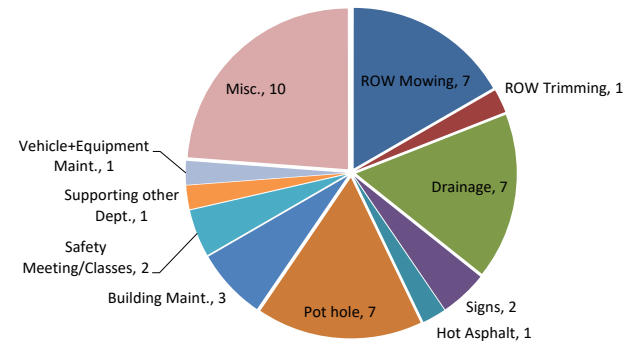
Omni	Scofflaw	Collections	Total
55	0	55	110

City of Joshua
Public Works Monthly Activity Report
For the Month of June 2020

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Row Mowing	2	1	1					1																	1					1		7
ROW Trimming										1																						1
Drainage		1									1	1			1	1	1						1									7
Signs																							1						1			2
Hot Asphalt																			1													1
Pot hole	1																	1				1	1			1			1	1		7
Building Maint.					1			1	1																							3
Concrete																																0
Emergency Services																																0
Crack Seal																																0
Safety Meeting																		1							1							2
Supporting other Dept.																							1									1
Vehicle+Equipment Maint.																													1			1
Misc.	2	1		2					3									1												1		10

Chart reflects one per daily occurrence

ROW Mowing	7
ROW Trimming	1
Drainage	7
Signs	2
Hot Asphalt	1
Pot hole	7
Building Maint.	3
Concrete	0
Emergency Services	0
Crack Seal	0
Safety Meeting/Classes	2
Supporting other Dept.	1
Vehicle+Equipment Maint.	1
Misc.	10



Public Works Monthly Team Status Report

For The Month Of June 2020

Completed Items

[illegible]

In Progress

Year Round	City Wide		Reconditioning drainage easements
Year Round	City Wide		Street sign repairs
Year Round	City Wide		Asphalt street repairs
Year Round	City Wide		Repair potholes with Duramaxx
Year Round	City Wide		Set out traffic counter and gather data
Year Round	Development		SW3P Inspections

Assigned But Not Yet Started

[illegible]

City of Joshua
Parks & Recreation
Status Report
For the month of June 2020

Grounds Maintenance	City Park	Baseball Complex	City Facilities	Entry Way Signs
Mowing	45	50	42	1
Weed Eating, Edging, Blowing	30	36	31	1
Hedge & Tree Trimming	8	4	6	
Flower Beds/Landscaping	4		12	
Fertilizing/Over Seeding				
Irrigation		6	2	
Trash Removal	60	22	16	

Field Maintenance	Field One	Field Two	Field Three
Mowing	18	16	16
Weed Eating	12	12	12
Infield Edging	10	10	7
Striping			
Infield Draging	10	8	6
Infield Repair	20	10	3
Fertilizing/Over Seeding			
Infield Watering	10	8	7
Trash Removal	8	8	6

Building Maintenance	City Park	Baseball Complex	City Facilities
Custodail Duties	50		6
General Repairs	39		20
Toddler Playground			
Equipment Maintenance	46	35	26
Special Events			
Remodeling			

City of Joshua
Parks & Recreation
Status Report
For the month of June 2020

Activity	Total Hours
Mowing	138
Weed Eating, Edging, Blowing	98
Hedge & Tree Trimming	18
Flower Beds/Landscaping	16
Fertilizing/Over Seeding	
Irrigation	8
Trash Removal	98
Field Mowing	50
Field Weed Eating	36
Infield Edging	27
Striping	
Infield Draging	24
Infield Repair	33
Fertilizing/Over Seeding	
Infield Watering	25
Trash Removal	22
Custodail Duties	56
General Repairs	59
Toddler Playground	
Equipment Maintenance	107
Special Events	
Remodeling	
Total Man Hours	815

City of Joshua
Code Compliance Report
For the Year of 2020

Code Compliance Report - 2020																										
	Jan-20		Feb-20		Mar-20		Apr-20		May-20		Jun-20		Jul-20		Aug-20		Sep-20		Oct-20		Nov-20		Dec-20		Total Year	
Code Cases	14		28		25		12		50		38														167	
Owner Abated W/I 30 days - %	9		17		19		10		24		23															
Code Cases Abated - City									3		2														5	
Code Citations Issued									1																1	

Code Violation Report - 2020													
	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
Building		3			1								4
Fence		3	1	1	1	2							8
Garbage	4		3		3								10
High Grass, Weeds, & Limbs	1	5	1	4	27	9							47
Junk & Debris	4	3	12		10	4							33
Junk Vehicle	1		1		1	1							4
No Permit	2	2		2		4							10
Nuisance													
Parking	1	3	2		4	6							16
Septic & Illegal Dumping													
Sign			2	1	1								4
Outside Storage		3	2	2	2	3							
Certificate of Occupancy				1		2							
Health and Sanitation	1	2											3
Garage Sale		1				2							
Storm Water													
Stop Work Order		3				5							8
Total Violations	14	28	24	11	50	38							147

Misc Code Activies - 2020													
	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total Year
Signs Collected	17	23	19	28	47	26							160
Unpaid Trash Accounts:													
Warnings													
Letters													
Citations					1								

Building Inspection Report

June 2020

June	2020	2019	YTD 2020	YTD 2019
Building	36	27	204	138
Electrical	23	19	155	102
Plumbing	18	17	128	88
Mechanical	4	4	52	27
Re-Inspections	6	8	68	54
Certificate of Occupancy	4	1	10	5
Certificate of Occupancy Re-Inspection	0	0	0	1
Total # of Inspections	91	76	617	415
Plan Review	18	6	71	25

Building Permit Report

June 2020

June	2020	2019	YTD 2020	YTD 2019
Building	51	15	149	100
Electrical	18	7	68	52
Plumbing	28	6	94	51
Mechanical	14	4	42	23
Permanent Sign	3	1	8	6
Temporary Sign	1	1	7	7
Certificate of Occupancy	3	1	10	9
Swimming Pool	1	0	4	3
Sprinkler System	1	4	21	19
Solicitor	0	1	0	1
Contractor Registration	10	9	74	91
MHP Registration	0	0	0	0
Total # of Permits	130	49	477	362

New Businesses Report

June 2020

New Businesses (Certificate of Occupancy Issued)	Address
S&L Bedding	1529 S Broadway St, Bldg B
Burleson Automotive Repair	440 N Broadway, Ste A
Future New Businesses (Applied for Certificate of Occupancy not completed)	Address
AKA Early Learning Center	615 N Broadway St
Joshua Storage Depot	100 W James St
New CO Issued for existing Business (New Owner, New Location, Name change, etc)	Address

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UTILITY BILLING

Council Report

Billing Period 6/1/2020 - 6/30/2020

Utility Bills Disbursed	Count	Amount
First Bill	16	\$229.98
Active	1826	\$32,575.84
Final Bill	7	\$71.36
Total	1849	\$32,877.18

Payments Received	Count	Amount
Check	697	\$15,261.78
CreditCard	423	\$13,540.61
Other	16	\$385.44
AchDraft	47	\$1,500.98
Cash	24	\$939.26
MoneyOrder	2	\$35.68
Total	1209	\$31,663.75

JOSHUA



City Secretary

MONTHLY REPORT

June 2020



CITY COUNCIL

Agenda Summary

City Council Meeting Agenda Summary Items: prepared, certified, published and processed. Meeting Minutes prepared and approved - June 18, 2020.

The following items were approved by the Mayor and City Council in June 2020.

- Ratify the City Manager's Signature on a Development Agreement with Joshua Development Company, Ltd. regarding Phase 3B of the Joshua Meadows Addition.
- Approved a zoning change from Single Family Residential (R-1) to Single Family Residential Large Lot (R1L) for 109 Little Brook Road.
- Approved the adoption of a new Zoning Ordinance.
- Approved an Ordinance establishing a Homestead Tax Exemption in the amount of five percent of the appraised value of the homestead.
- Ratified the Type A Board's approval of Rumfield's reimbursement for construction of downtown public improvements.

Public Information Request

Processed twenty-two (22) Public Information Request and completed within ten days or less. Out of the 22, two were sent to the Texas Attorney General for an opinion.

Request Date	Requestor	Documents	Date Released	AG Letter	Cost/Electronic	
6/1/2020	Carole Bartholomew	Permit Reports	6/5/2020	n	\$0.00	
6/2/2020	Modern Geosciences	Environmental Reports	6/5/2020	n	\$0.00	
6/2/2020	Debbi Meador	Accident Report	6/2/2020	n	\$6.00	
6/4/2020	Metropolitan Bureau	Accident Report	6/4/2020	n	\$6.00	
6/4/2020	Lawrence Fernandez	Enviornmental Reports	6/16/2020	n	\$0.00	
6/5/2020	Carmen Leal	Incident Report	6/16/2020	Y		Pending AG Opinion
6/8/2020	Cade Campbell	Police Reports	6/16/2020	n	\$0.00	
6/9/2020	Robin Stubblefield	Police Reports	6/17/2020	n	\$0.00	
6/9/2020	Child & Family Services	Police Reports	6/17/2020	n	\$0.00	
6/15/2020	Chandler Casey	Police Reports	6/15/2020	n	\$0.00	
6/17/2020	Melba Radar	Police Reports	6/22/2020	n	\$0.90	
6/18/2020	Cade Campbell	Police Reports	6/22/2020	n	\$0.00	
6/22/2020	Eric Chung	Financial Documents	6/22/2020	n	\$0.00	
6/23/2020	Heather Smith	Police Reports	6/25/2020	n	\$0.00	
6/24/2020	Sue Rozzell	Police Reports	6/24/2020	n	\$0.00	
6/24/2020	Sue Rozzell	Police Reports	6/24/2020	y		Pending AG Opinion
6/24/2020	Faith Evans	Vancant Building List	6/24/2020	n	\$0.00	
6/24/2020	Faith Evans	Permit Reports	6/24/2020	n	\$0.00	
6/24/2020	Faith Evans	Code Reports	6/24/2020	n	\$0.00	
6/24/2020	Faith Evans	Code Reports	6/24/2020	n	\$0.00	
6/24/2020	Faith Evans	Fire Reports	6/24/2020	n	\$0.00	
6/24/2020	Faith Evans	Water Reports	6/24/2020	n	\$0.00	
					\$12.90	

Social Media Updates

Total New Post on Facebook - 38
Total Post Reached- 17,222
Total Post Engagement-8,330
Total New Page Followers- 101

Website Design- Staff is focusing on making City forms and applications available to fill out on-line and go directly to the designated staff member.

May General Election - May General Election has been postponed to November 2020 for the safety of the citizens. All November election dates applies to the May General Election, but no other candidates may file an application to be on the ballot. Staff is currently working with Johnson County Elections Department for the possibility of contracting with the county so citizens will only have to go to one location. November 2020 Election will have a large turnout being a Presidential Election. Update: As of date, there are a total of 6 entities contracting with the county for election services. This will bring our cost down as expected. The agreement will be presented to the city council in July.

Records Management - Staff has started the inventory of city records. Each record will be recorded and labeled according to the Texas State Library and Archives Commission, and processed as required. Over 300 boxes was inventoried, labeled, and recorded. In addition, 178 boxes was destroyed as allowed by the Texas State Library and Archives Commission Schedules.

Code of Ordinances - The Code of Ordinances now contains all ordinances deemed appropriate to be included as enacted through January 16, 2020. Moving forward, the Code of Ordinances will be updated quarterly instead of yearly. In addition, as ordinances are passed, they are placed in the Document Vault. To get to the Document Vault, go to the Code of Ordinances and it is the last tab on top.

