CONSTRUCTION PLANS FOR

LAKESHORE COMMONS 4.7 AC± LOTS 1 - 4, BLOCK A LAKESHORE COMMONS ADDN

ROCKWALL, TEXAS

FOR

MOORE WORTH INVESTMENTS, LLC 8445 FREEPORT PARKWAY, SUITE 175 IRVING, TX 75063 214-415-9993

FEBRUARY 2017

	P1	LAN SUBMITTALS
No	DATE	COMMENTS
1	09-16-16	CITY OF ROCKWALL - 1st SUBMITTAL
2	02-06-17	CITY OF ROCKWALL - 2nd SUBMITTAL
3	03-06-17	CITY OF ROCKWALL - 3rd SUBMITTAL
4	03-15-17	CITY OF ROCKWALL - PARTIAL; SHTS C-4, C-5 & C-12
F	03-22-17	FINALS
		REVISIONS
1	03-23-17	REV UTILITY PLAN
2	05-17-17	REV SITE, PAVING, GRADING, DRAINAGE AND UTILITY PLAN
2	05-30-17	FINALS
3	10-12-17	REV UTIL PLAN — WATER CONNECTION
4	10-16-17	REV POND B
5	05-10-18	REV DRAINAGE & LOT 3&4 UDS - 1ST SUB
5	06-26-18	REV SS, DRAINAGE, LOT 3&4 UDS, POND B, 205 SWALE & STRUCTURE #6 (LINE E) — 2ND SUB
5	07-17-18	REV OFF-SITE DRAINAGE AREAS - 3RD SUB
5	07-25-18	FINALS

	SHEET INDEX
SHT #	SHEET TITLE
C-1	COVER SHEET
	FINAL PLAT — BY OTHERS
C-2	SITE & PAVING PLAN
C-3	GRADING PLAN
C-4	DRAINAGE PLAN
C-5	UDS DRAINAGE AREA MAP
C-6	DETENTION CALCULATIONS — POND A
C-7	DETENTION CALCULATIONS — POND B
C-8	DETENTION CALCULATIONS — UDS
C-9	UNDERGROUND DETENTION SYSTEM DETAILS
C-10	STORM SEWER PROFILES
C-11	STORM SEWER PROFILES
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C-13	UTILITY PLAN
C-14	EROSION CONTROL PLAN
C-15	DETAILS & SANITARY SEWER PROFILE

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	ag E	QUAIL	
	LAKESHORE	SH 2	
PROJE	СТ	205	
LOCATI	ON /		SH 66
		6	

VICINITY MAP

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markredhick@gmail.com
Engineers

LAKESHORE COMMONS

LAKESHORE COMMONS

S 1 - 4; LAKESHORE COMMONS

OCKWALL, ROCKWALL COUNTY, TEXAS

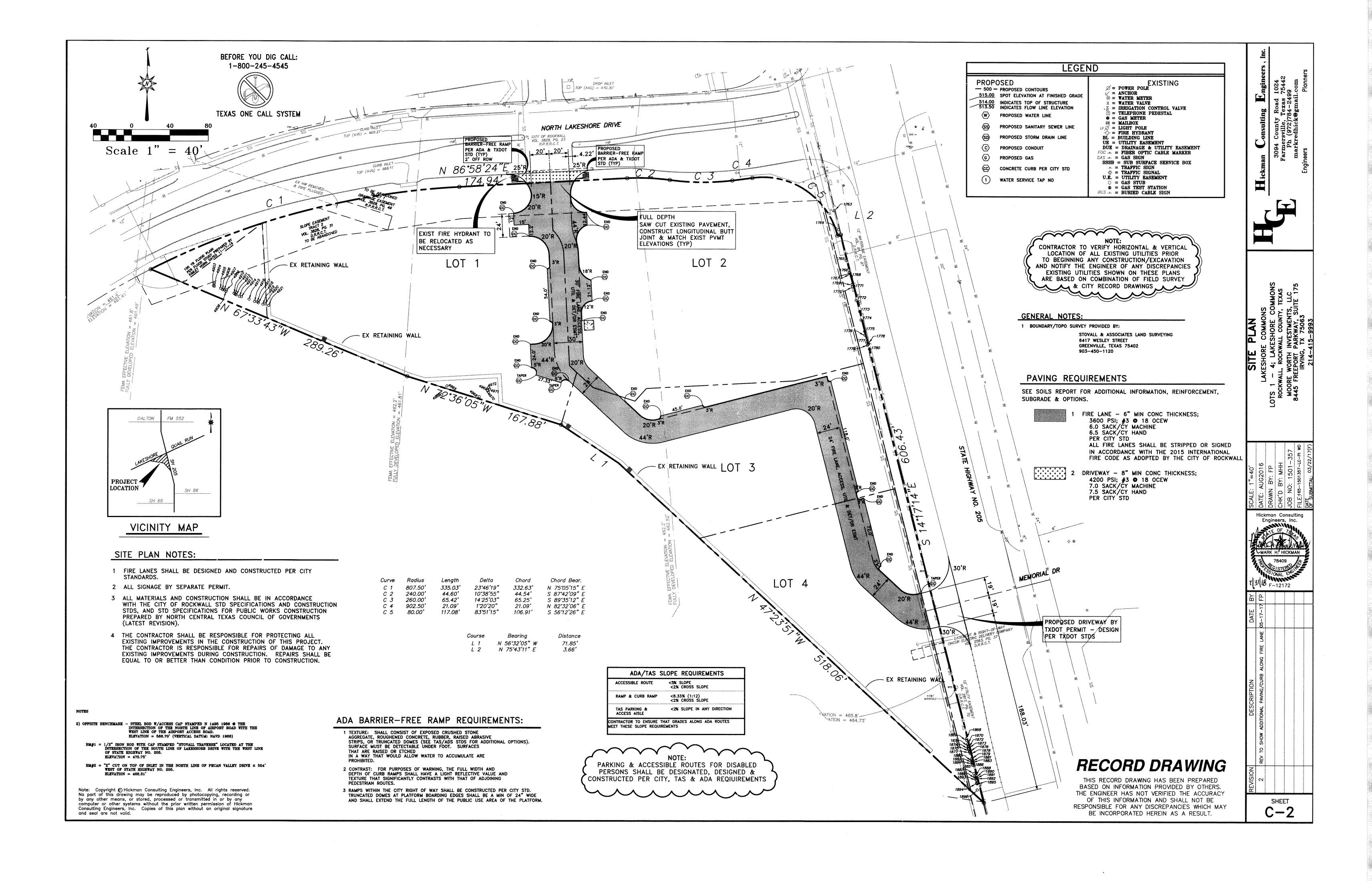
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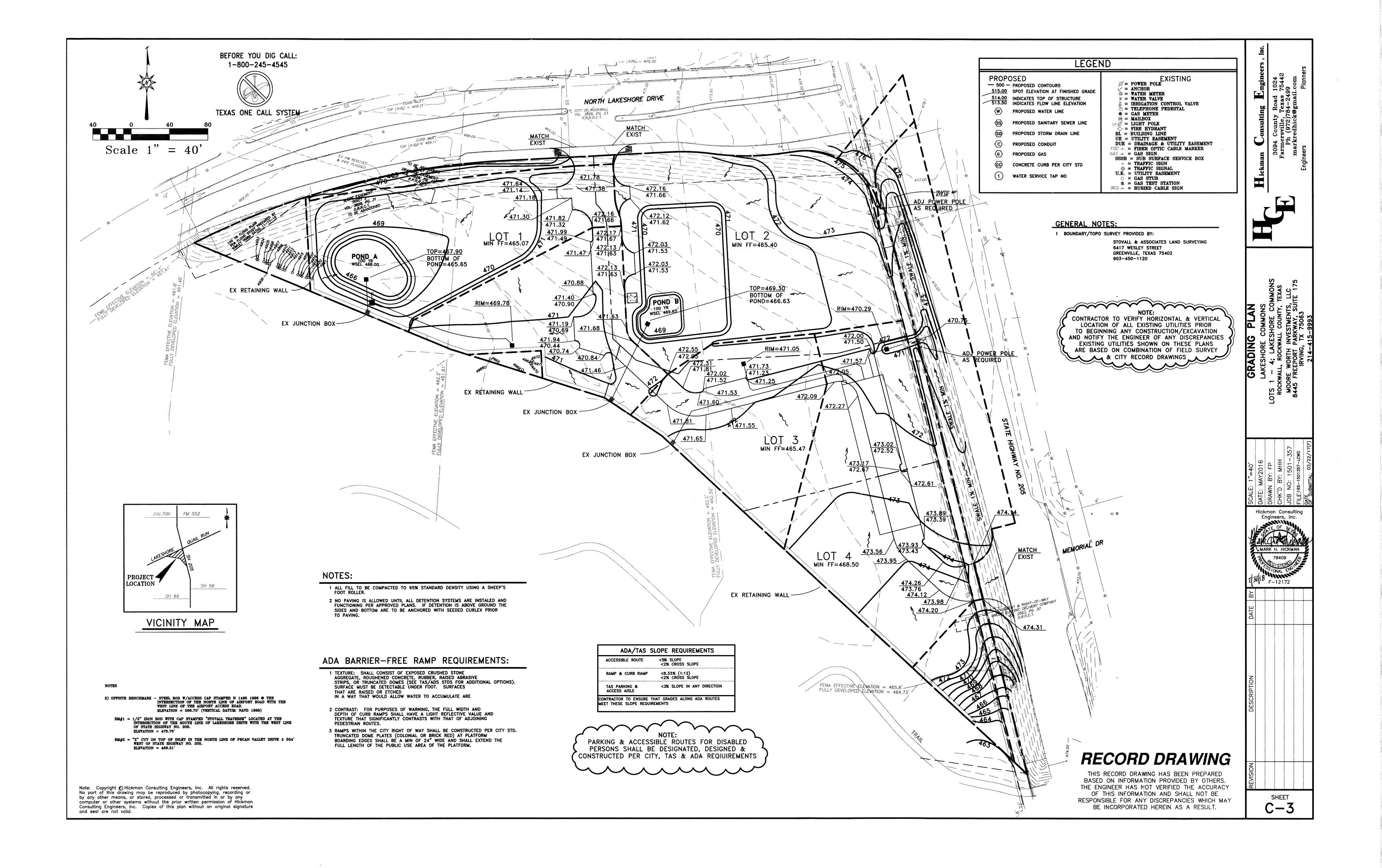
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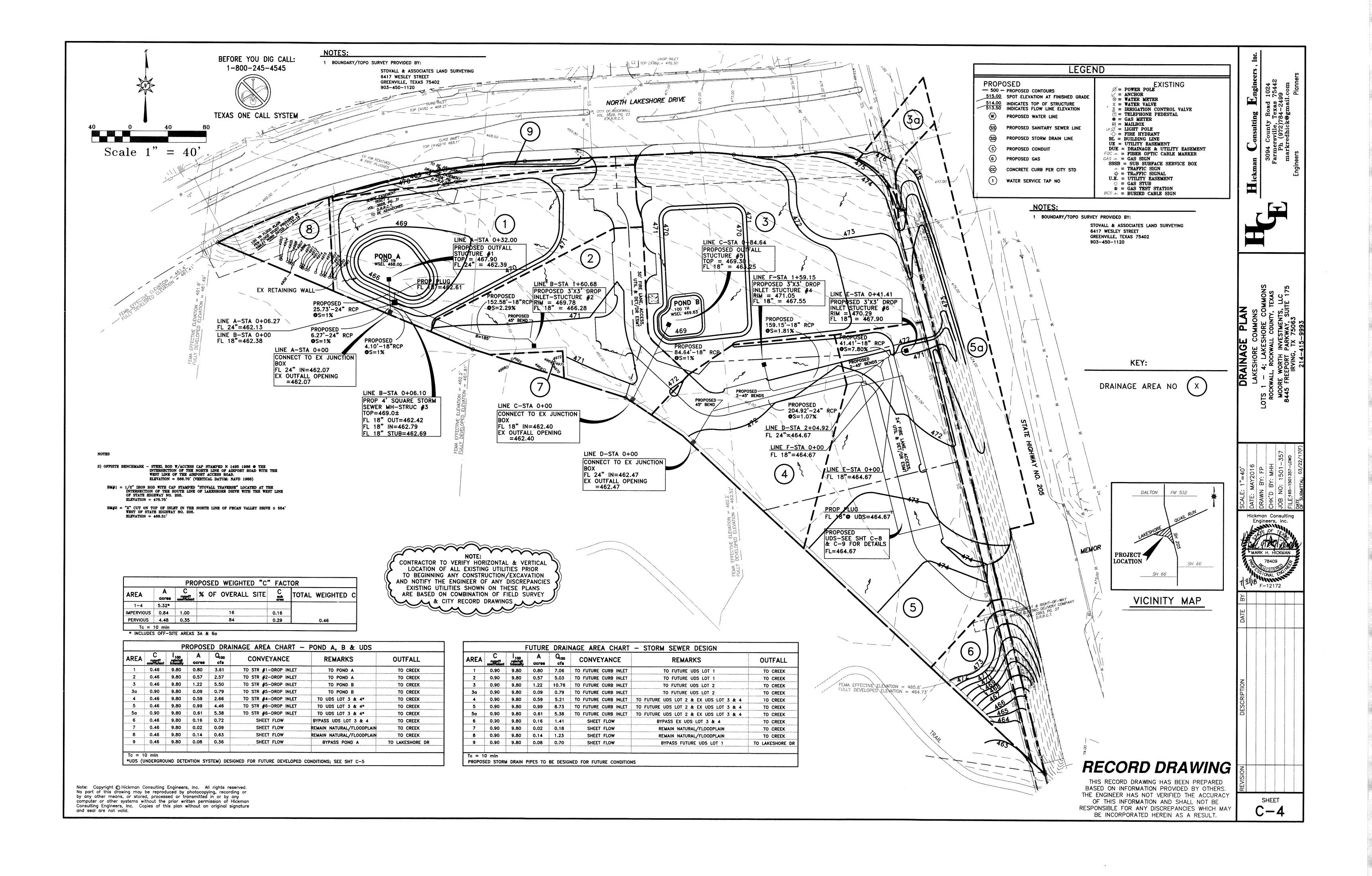
IRVING, TX 75063

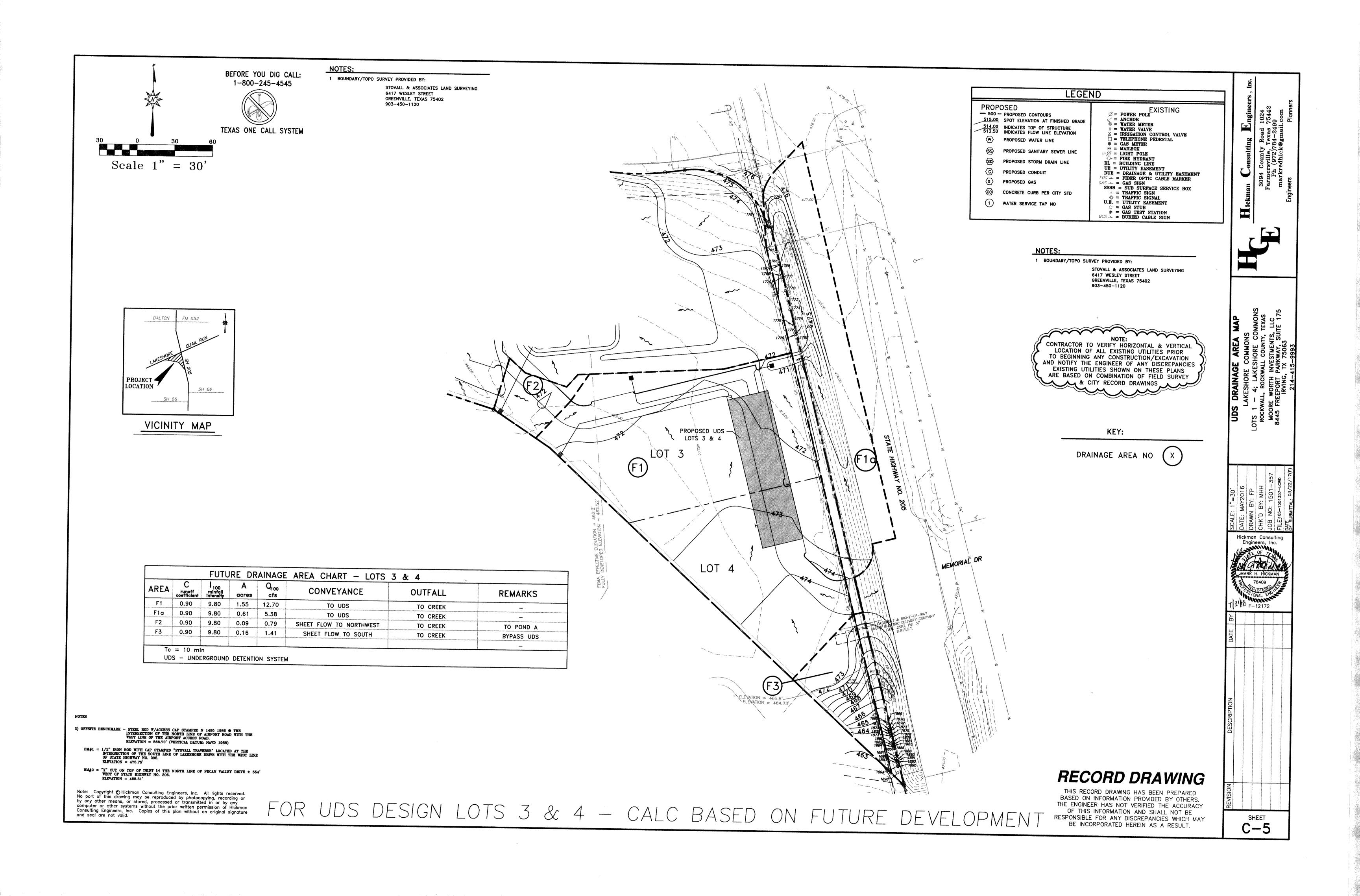
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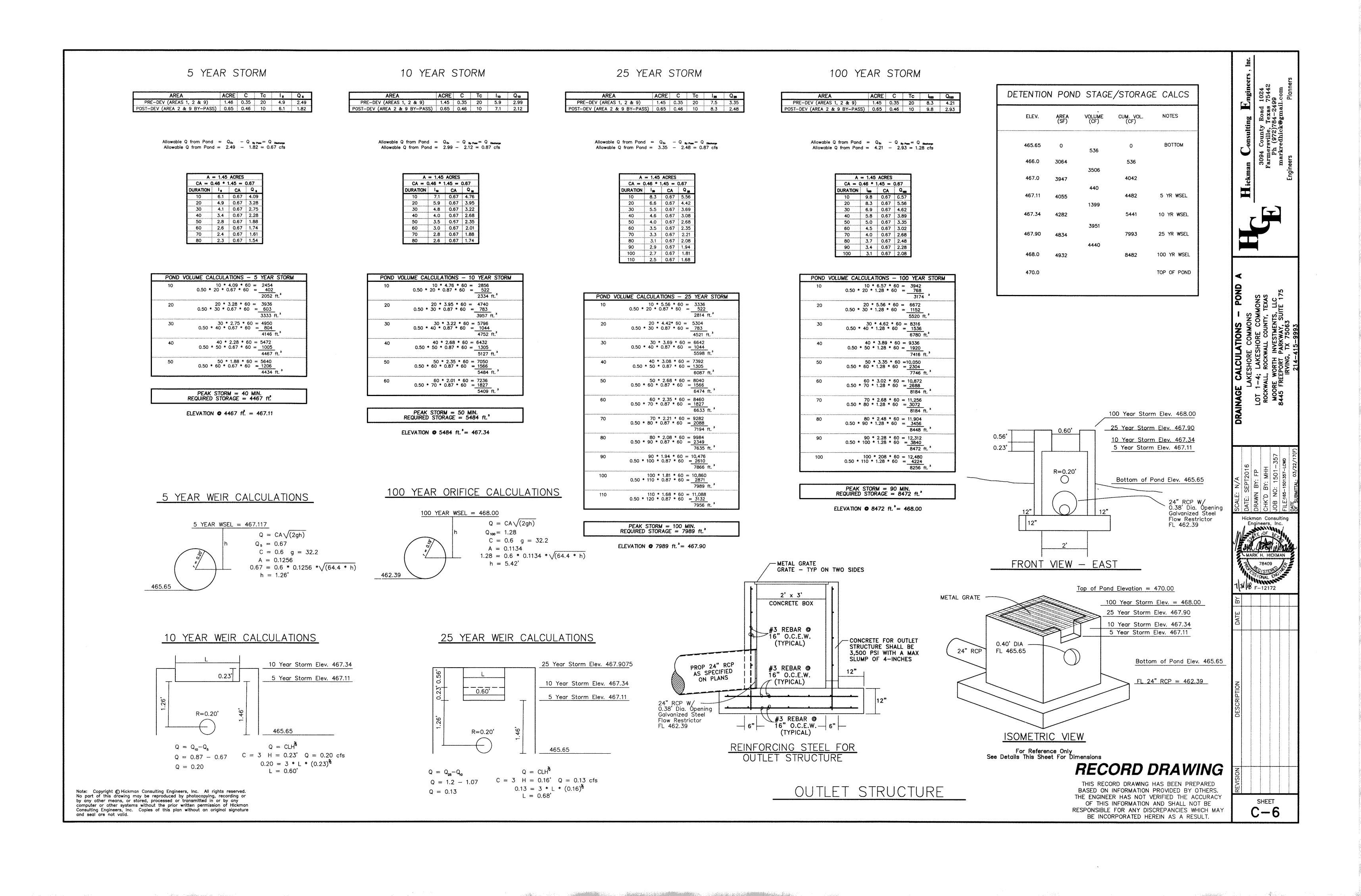
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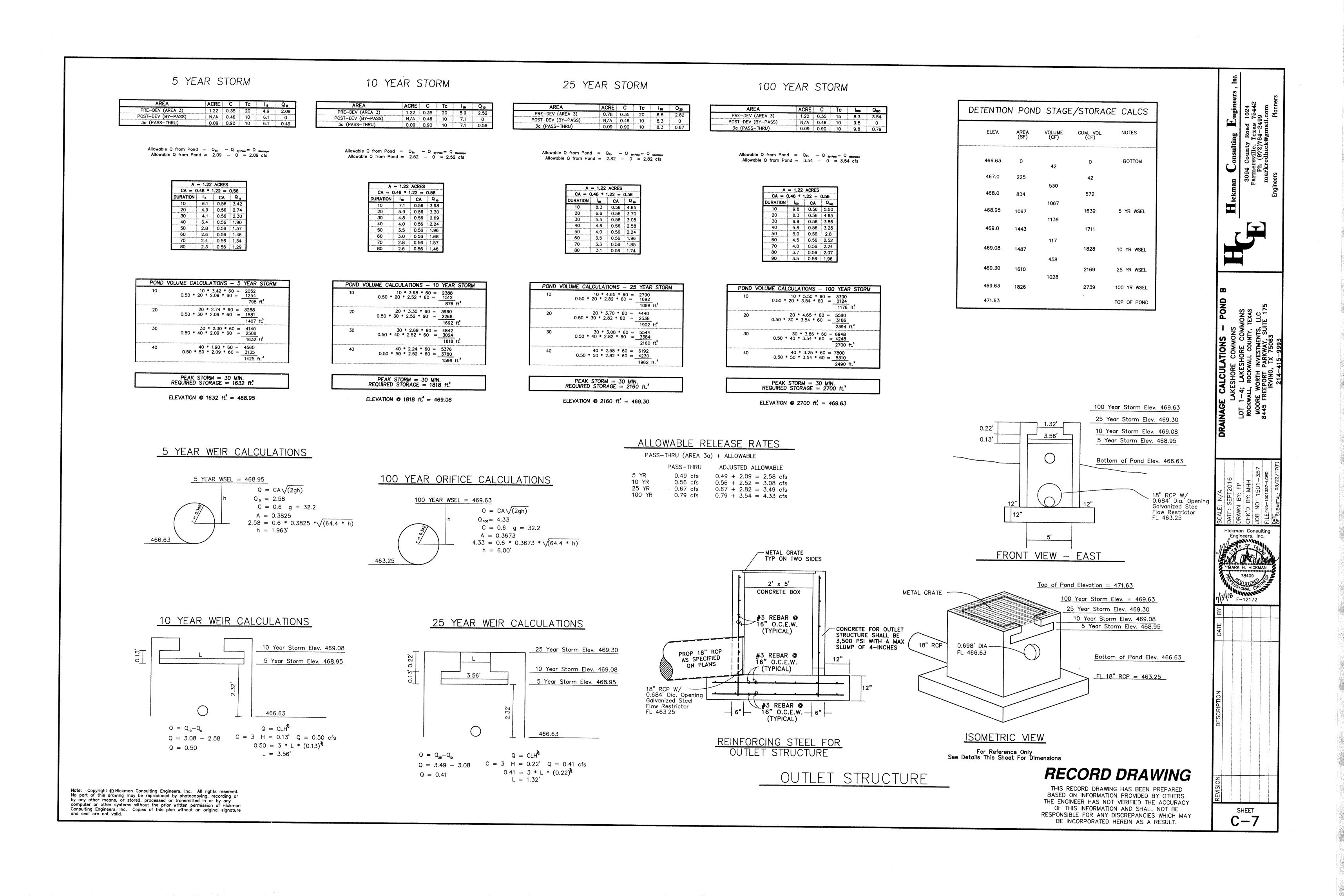


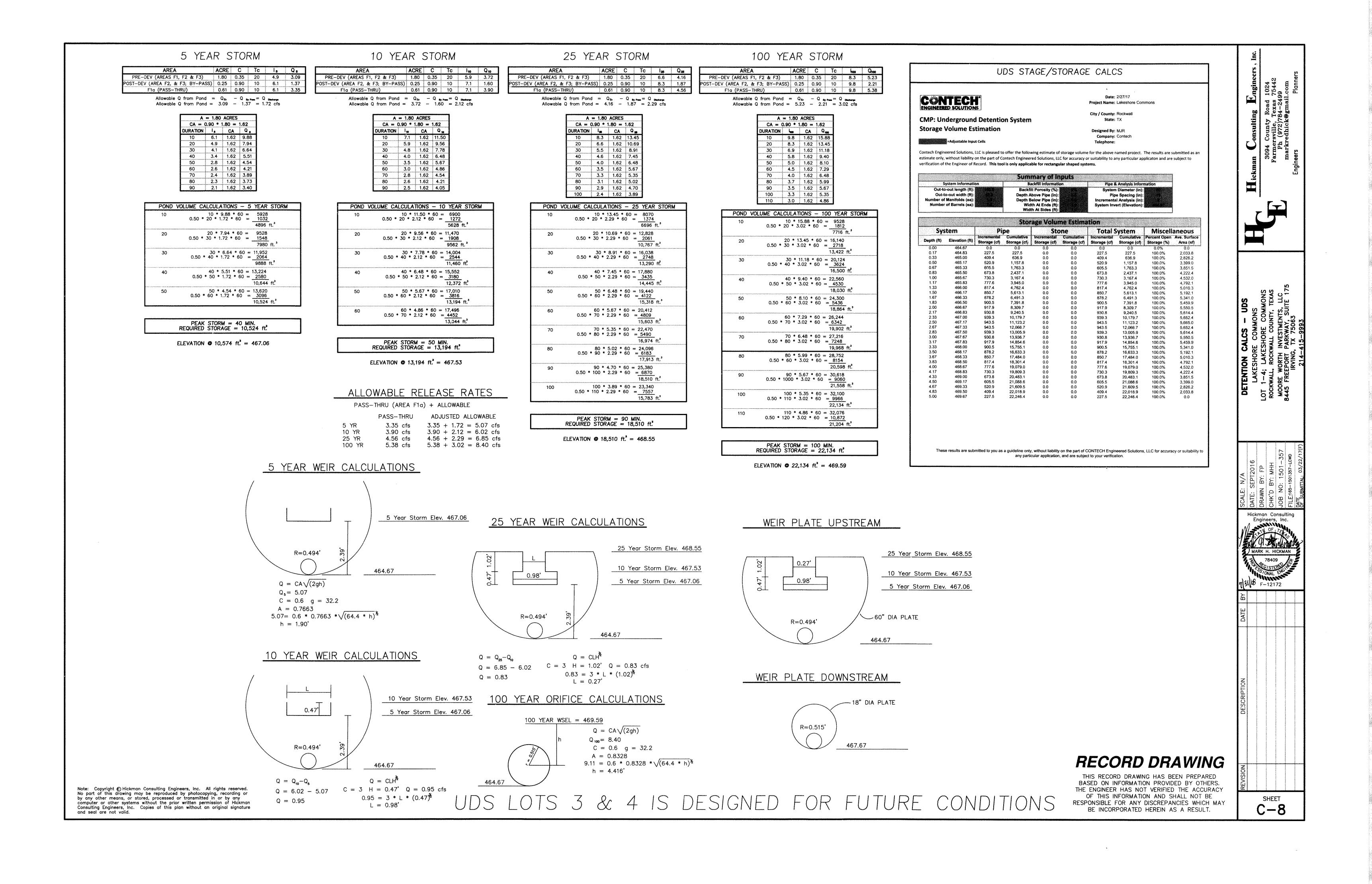


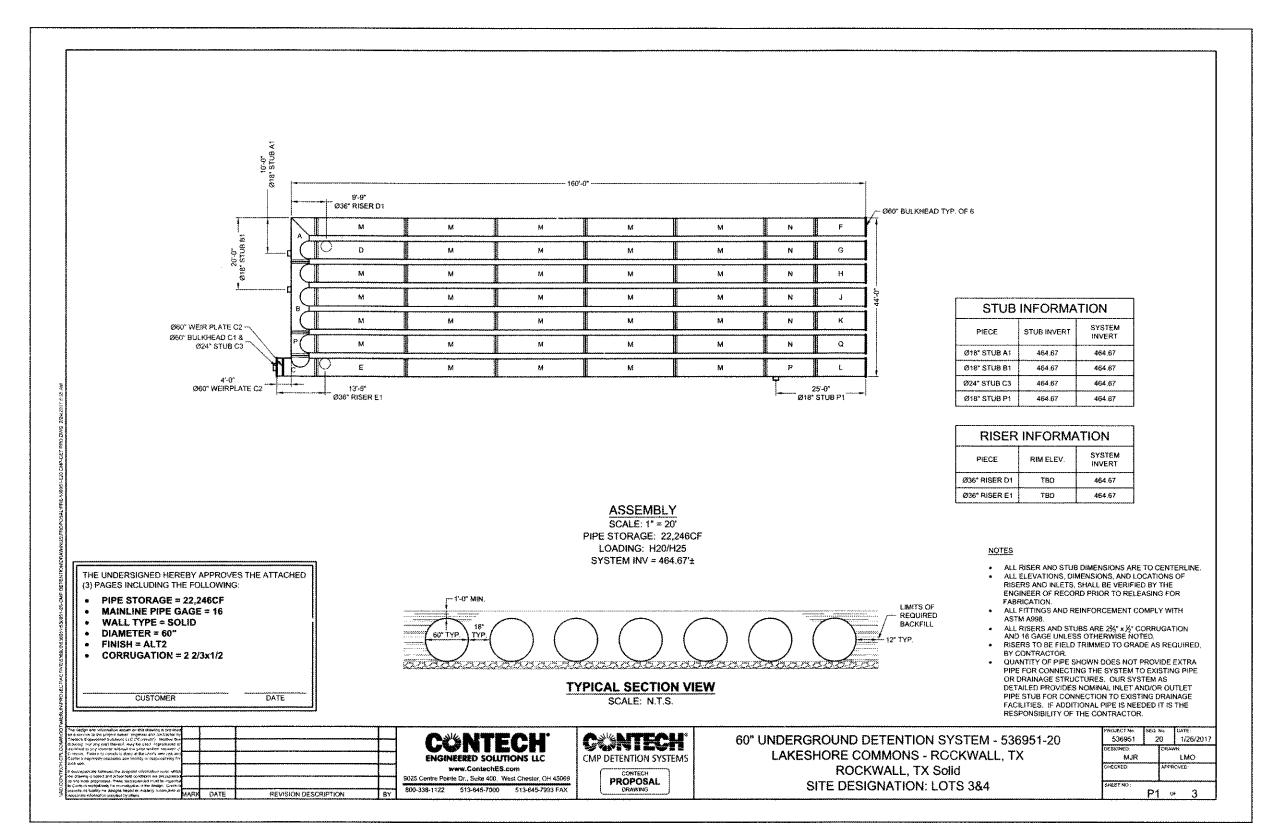


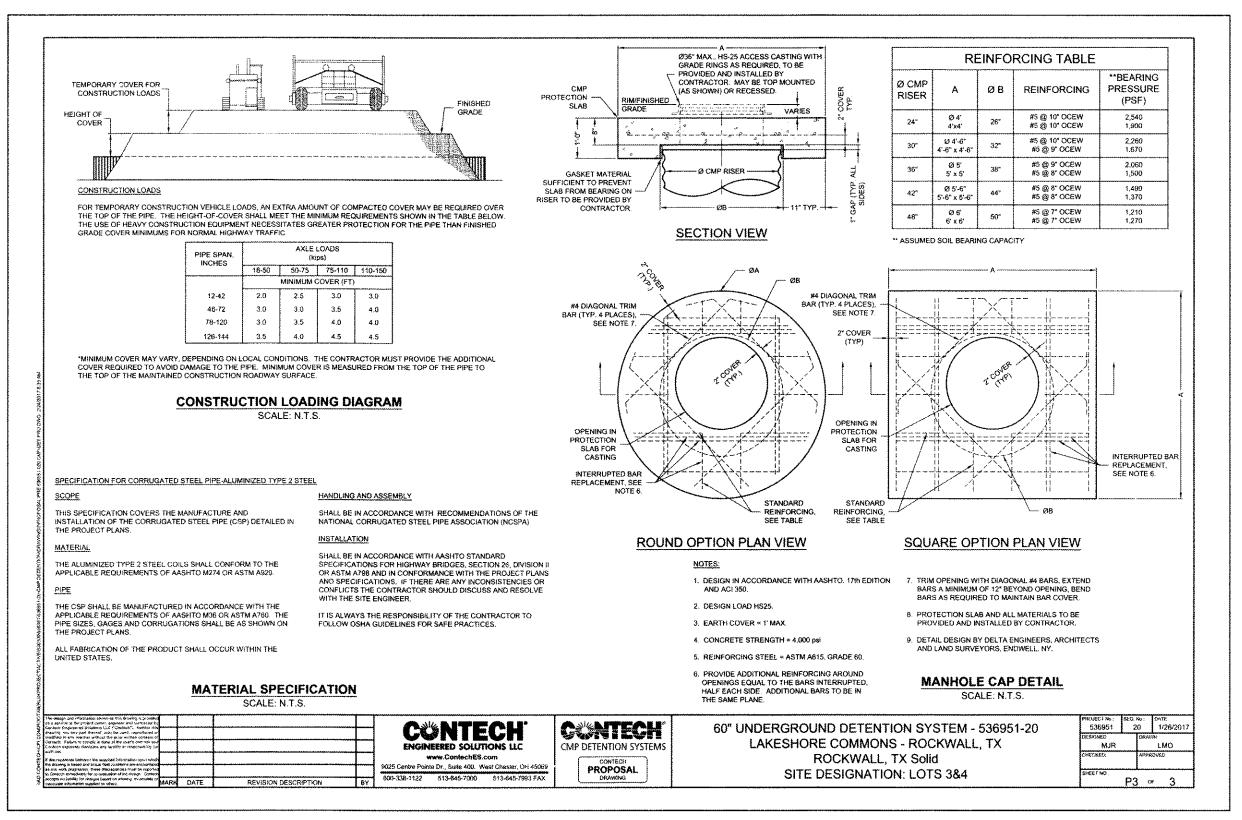


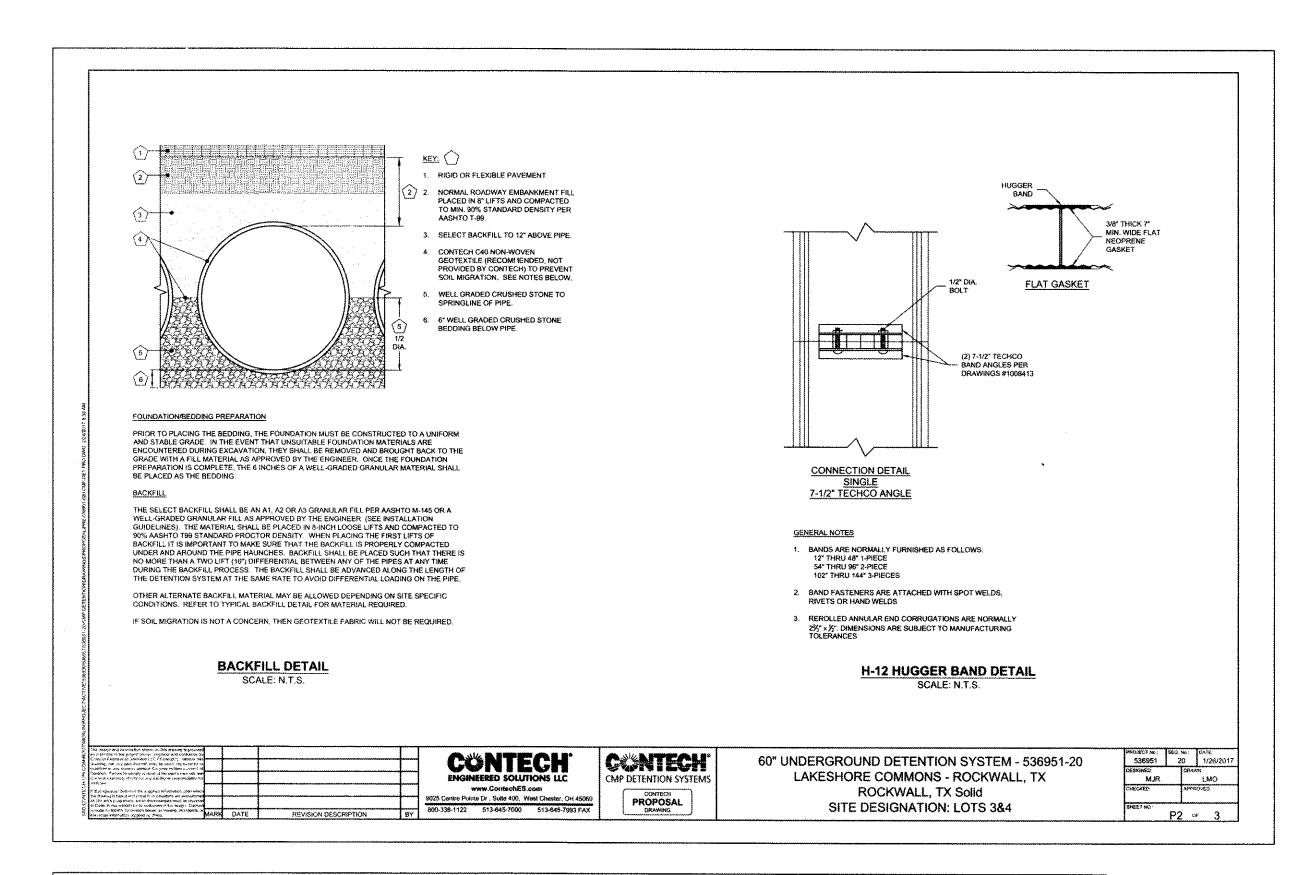


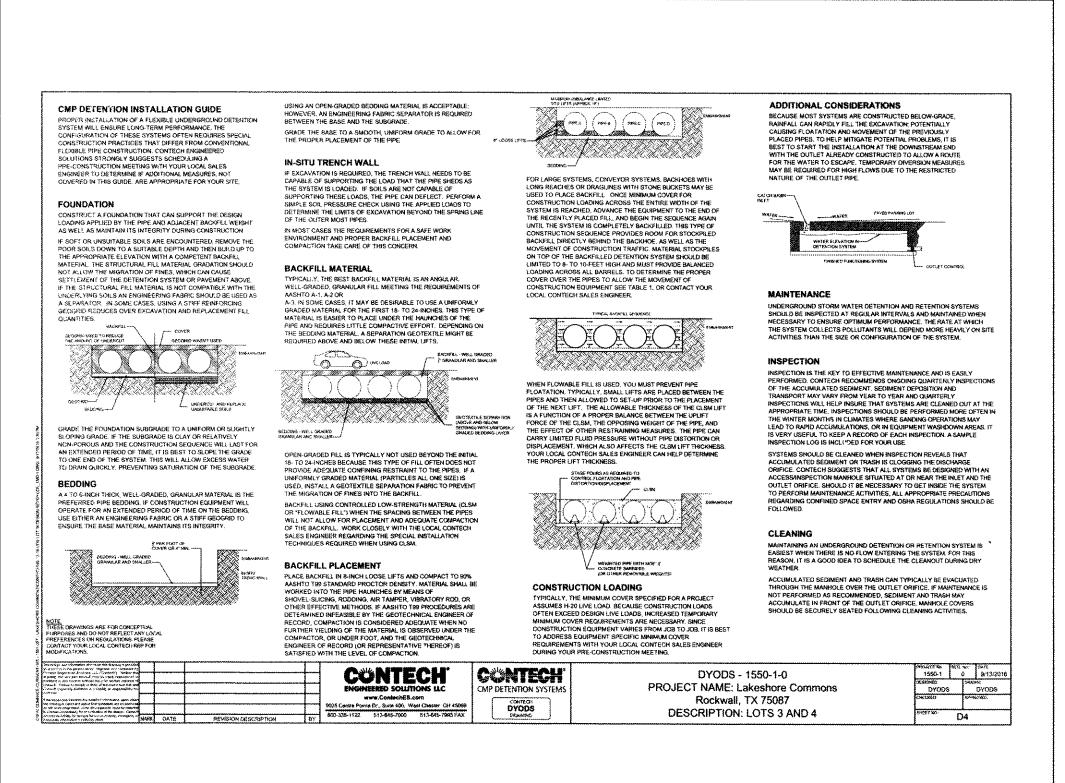












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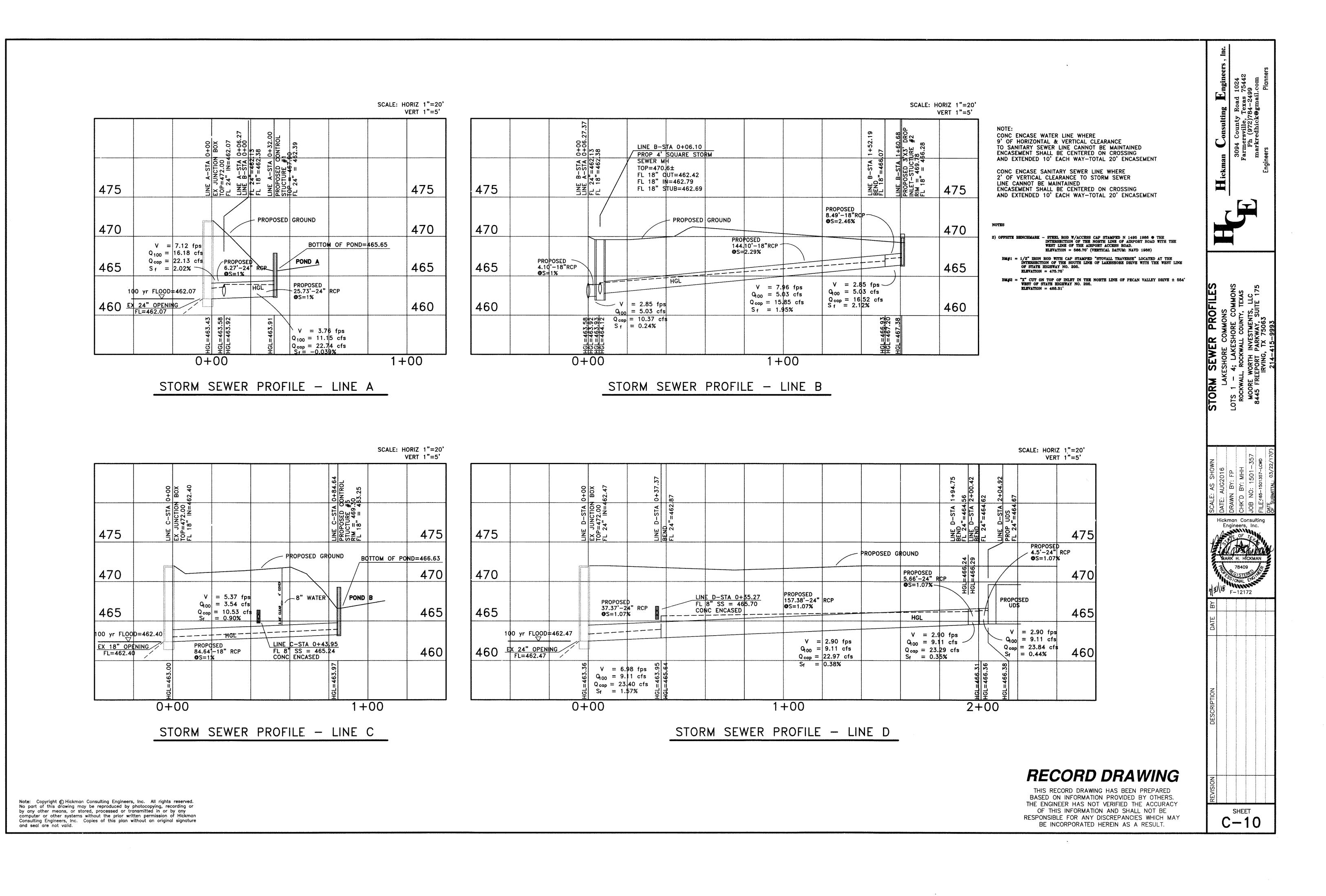
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UDS LOTS 3 & 4 IS DESIGNED FOR FUTURE CONDITIONS

Hickman Consulting Engineers, Inc. CMARK H. HICKMAN 78409 7 F-12172

C-9

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CONC ENCASE WATER LINE WHERE
9' OF HORIZONTAL & VERTICAL CLEARANCE
TO SANITARY SEWER LINE CANNOT BE MAINTAINED
ENCASEMENT SHALL BE CENTERED ON CROSSING
AND EXTENDED 10' EACH WAY—TOTAL 20' ENCASEMENT

CONC ENCASE SANITARY SEWER LINE WHERE 2' OF VERTICAL CLEARANCE TO STORM SEWER LINE CANNOT BE MAINTAINED
ENCASEMENT SHALL BE CENTERED ON CROSSING
AND EXTENDED 10' EACH WAY-TOTAL 20' ENCASEMENT

PROPOSED

460

21.44-18" RCP @S=7.80%

0+00

-PROPOSED GROUND $Q_{100} = 14.91 \text{ cfs}$ $Q_{cap} = 29.32 \text{ cfs}$ $S_f = 10.19\%$ F SWALE 1% MIN V = 6.74 fps $Q_{100} = 14.91 \text{ cfs}$ PROPOSED $q_{cap} = 29.37 \text{ cfs} \ 465$ 465 PROPOSED 15.73'-18" RCP @S=7.80%

8" WATER

PROPOSED 4.24'-18" RCP ⊕S=0.7.80%

SCALE: HORIZ 1"=20' VERT 1"=5'

 $Q_{100} = 14.91$ fps d fps cfs 460

Q_{cap} = 29.30 cfs

= 3.07%

STORM SEWER PROFILE - LINE E

SCALE: HORIZ 1"=20' VERT 1"=5' V = 6.45 fps $Q_{100} = 5.21 \text{ cfs}$ $Q_{cap} = 14.01 \text{ cfs}$ $S_f = 2.9\%$ V = 3.07 fps Q₁₀₀ = 5.21 cfs Q_{cap} = 13.50 cfs S_f = 0.71% = 4.20 fps $Q_{100} = 5.21 \text{ cfs}$ $Q_{cap} = 14.19 \text{ cfs}$ $S_f = 0.73\%$ 470= 5.21 cfs V = 4.73 fps470 $Q_{100} = 5.21 \text{ cfs}$ PROPOSED GROUND $Q_{cap} = 14.64 \text{ cfs}$ $S_f = 2.8\%$ PROPOSED 465 465 PROPOSED 4.24'-18" RCP 8" WATER 24.64'-18" RCP 9S=1.81% PROPOSED 13.50'-18" RCP PROPOSED 5.66'-18" RCP @S=1.81% PROPOSED 111.11'-18" RCP **@**S=1.81% 460 **9**S=1.81% 460 - V = |4.84 fps| $Q_{100} = 5.21 \text{ cfs}$ $Q_{cap} = 14.13 \text{ cfs}$ $S_f = 0.30\%$ 0+00 1+00

STORM SEWER PROFILE - LINE F

2) OFFSITE BENCHMARK - STEEL ROD W/ACCESS CAP STAMPED N 1495 1986 © THE INTERSECTION OF THE NORTH LINE OF AIRPORT ROAD WITH THE WEST LINE OF THE AIRPORT ACCESS ROAD. ELEVATION = 566.70' (VERTICAL DATUM: NAVD 1968)

BM#1 = 1/2" IRON ROD WITH CAP STAMPED "STOVALL TRAVERSE" LOCATED AT THE INTERSECTION OF THE SOUTH LINE OF LAKESHORE DRIVE WITH THE WEST LINE OF STATE HIGHWAY NO. 205.

ELEVATION = 475.75'

BM#2 = "X" CUT ON TOP OF INLET IN THE NORTH LINE OF PECAN VALLEY DRIVE ± 554' WEST OF STATE HIGHWAY NO. 205.
ELEVATION = 468.31'

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STORM SE, LAKESHO

SHEET C-11

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INLET DESIGN CALCULATIONS

		LOCATION				A	REA RU	NOFF		UPSTREAM	TOTAL					***************************************	GUTT	ER FLOW			*****		***************************************		T				INLET C	ADACITY							
INLET ID	ALIGNMENT	STATION	OFFSET	DESIGN FREQ yr	С	AREA T	c INTEI	,	EA RUNOFF Q es cfs	BYPASS cfs	GUTTER FLOW Qa cfs	THOROUGH FARE TYPE	ON- GRADE/ SAG	MANNING'S n	LONG SLOPE S ft/ft	CROWN TYPE	CROSS	DEPRESS	ON PON WDTH (a W 1	DING WIDTH, allow) (a T _{allow}	/SPREAD D ctual) factual ft	DEPTH OF GL (allow) Yallow ft	JTTER/FLOW (actual) Yactual ft	MAX ALLOWABLE FLOW BASED ON MAX PONDING WDTH Qailowable gutter cfs	DEPRESSED AREA Aw	GUTTER SE WETTED PERIMETER Pw	SEC BEYON AREA Ao	DEPRESSION WETTED PERIMETER Po	CON	EYANCE	RATIO OF DEPRESSION FLOW TO TOTAL FLOW E0	EQUIVALENT CROSS-SLOPE Se	INLET I REQUIRE Lreg'd	D ACTUAL	CAPACITY	FLOW C*A TO INLET DD	REMARKS
STR #2 STR #4	LINE B LINE F	1+60.68 1+59.15	X	100 100	0.46 0.46	2 1 4 1	0 9. 0 9.	30 0.5 30 0.5	2.57 9 2.66	0	2.57 2.66	N/A N/A	SAG SAG	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A 1 N/A 1	N/A N/A	N/A N/A	0.5 0.5	0.165 0.17	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	2.6 2.7	3'x3' 3'x3'	13.10 13.10	0 N/A N/A 0 N/A N/A	
STR #6	LINE E	0+41.41	X	100	vories 30	/5/5a 1	9.	30 1.6	9 10.64	0	10.64	N/A	SAG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.5	0.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.5	3'x3'	13.10	0 N/A N/A	

STORM	SEWER	CALCULATIONS
0101111		CHECOLHIONS

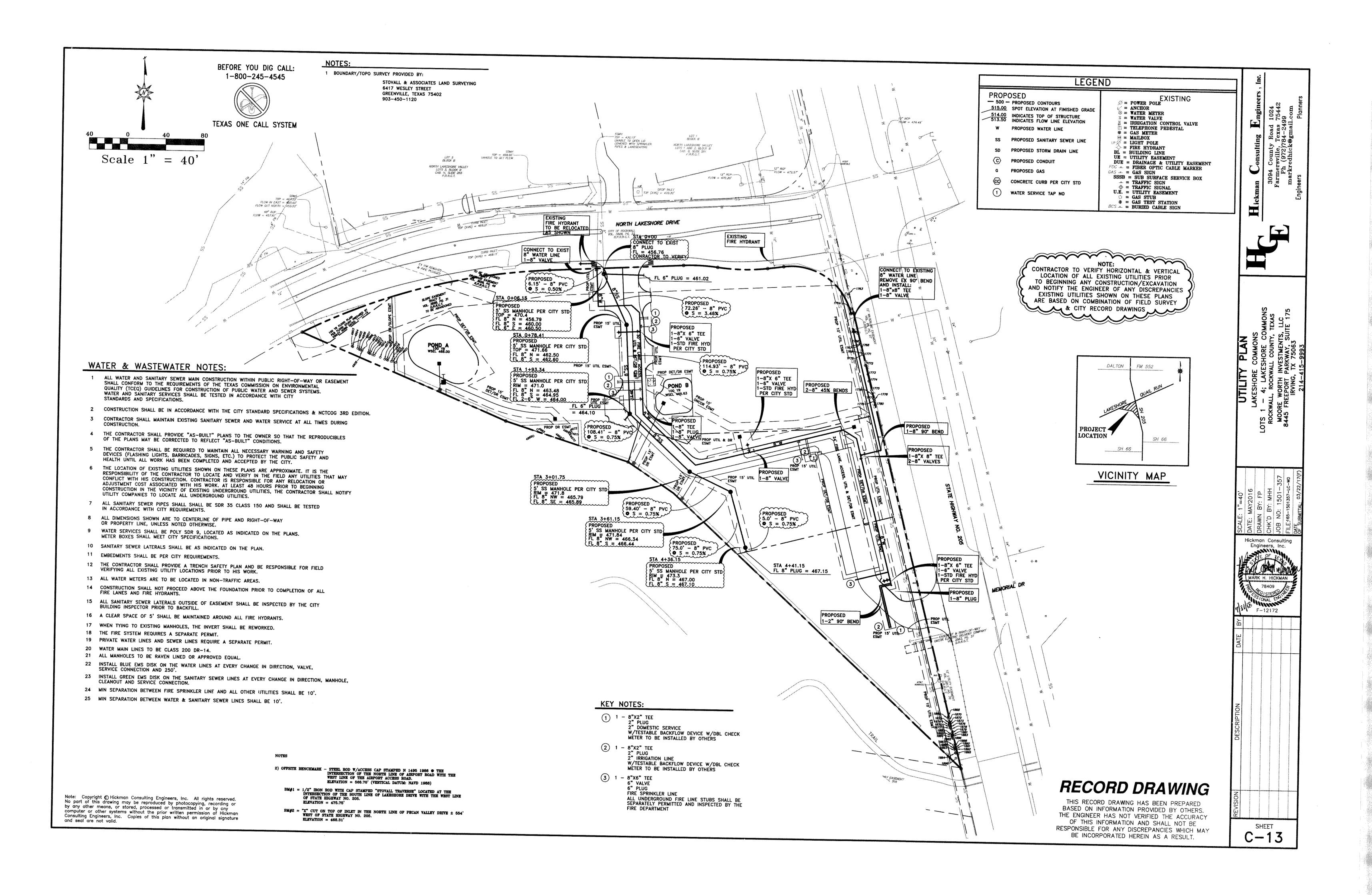
i L				~~~			CON	DUIT PRO	PERTIES							INCR	EMENTAL	DRAINA	GE AREA	···												.——	1.11	*ADL 000	0410111	ATIONIC			,	3
SYSTEM	COLLECTION	I POINT STA	LENGTH	# OF BARRELS	PIPE SIZE	ВО		TYPE	AREA	WETTED PERIMETER	HYDRAUL R RADIUS	C MANNING'S	FLOWLIN	E ELEVATION	SLOPE	INLET	AREA	RUNOF	INCRE-	ACCUM	,		1	RUNOFF Q	CONDUIT		VELOCIT`	Y TIME IN CONDUIT	FRICTION SLOPE	FRICTION HEAD-	HGL		U/S V ²	D/S JCT	T COFF	······································		GN TOP OF		REMARKS
	U/S	D/S	ft		inches	SPAN ft	RISE ft		sf	ft	ft		U/S	D/S	ft /ft	- ID	gcres	COEFF C	MENTAL C*A	-ULATE C*A	D Tc	FREQ	in /br	cfs	Qc				Sf	HEAD- LOSS	U/S	D/S	<u>2</u> g	2g 11P	E K,	, H _L	HGL	L CURB ELEV	5	
LINE A	0+06.27	0+00	6.27	1	24	N/A	N/A	CONC	3.14	3.7	0.57	0.13	462.13	462.07	0.01	STR #1		0.46	0.63	0.63	10	100	9.80	3.61	cfs	yes/no		min	11/11	i it			ft į	ft		ft		V	BELOW 1/C	
LINE A	0+32.00	0+06.27	25.73	1	24	N/A	N/A	CONC	3.14	3.1	0.50	0.13	462.39	462.13	0.01		0.80	0.46	0.37	0.37	10	100	9.80	2.57	22.13	YES	7.69 7.20	0.014	0.0238	1.36	463.58 4		0.68			****	verseever and constant and account to the		N/A	
	***************************************						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************								••••						100	9.00	2.3/	22.74	YES	7.20	0.06	0.0024	0.34	463.91 4	63.92	0.30	0.22 INLE	ET 1.5	0	463.91	1 468.90	4.99	
LINE C	0+84.64	0+00	84.64	1	18	N/A	N/A	CONC	1.77	2.1	0.84	0.13	463.25	462.40	0.01	STR #5	1.22	0.46	0.56	0.56	10	100	9.80	3.54	10.59	VEC	E 77	0.00				***************************************				***************************************	***************************************	***************************************	***************************************	
******************************	***************************************	***************************************		***************************************		······		***************************************				***************************************											9.00	3.34	10.59	YES	5.37	0.26	0.009	0.76	463.97 4	63.00	0.28).45 INLF	ET 0.35	5 0.97	463.97	7 470.91	6.94	
LINE B	0+00	0+06.10	6.10	1	18	N/A	N/A	CONC	1.77	4.7	0.38	0.13	462.42	462.38	0.01		1.16	0.46	0.53	0.53	10	100	9.80	5.03	10.37	VEC	0.95	0.004				~~~~				~~~~	•••••••••••••••••••••••••••••••••••••••			
LINE B	0+06.10	1+52.19	146.09	1	18	N/A	N/A	CONC	1.77	2.0	0.89	0.13	466.07	462.79	0.0229	***************************************	1.16	0.46	0.53	0.53	10	100	9.80	5.03	15.85	YES	2.85	0.024	0.0024	****************	463.93 4	······································	0.13			***************************************			6.48	
LINE B	1+52.19	1+60.68	8.49	1		N/A			1.77	4.7	0.38	0.13	466.28	466.07	0.0246	STR #2	1.16	0.46	0.53	0.53	10	100	9.80	5.03	~~^~~	YES	7.96	0.302	0.0195	2.85				0.14 45 BE					N/A	
	Militari Militari sant sant ann an		~				******************	***************************************														100	3.00	3.03	16.52	YES	2.85	0.050	0.0212	0.18	467.38 4	67.20	0.15	J.30 INLE	ET 1.5	0.18	467.38	8 469.78	2.40	
LINE D	0+00	0+37.40	37.40	1	24	N/A	N/A	CONC	3.14	2.9	1.08	0.13	462.87	462.47	0.011	UDS	N/A	N/A	N/A	N/A	10	100	9.80	9.11	23.40	YES	6.09	0.000	0.000			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************	***************************************		***************************************		
LINE D	0+37.40	1+94.75	157.38	1	24	N/A	N/A	CONC	3.14	6.3	0.50	0.13	464.56	462.87	0.010	UDS	N/A	N/A	N/A	N/A	10	100	9.80	9.11	22.97	YES	6.98	0.089	0.008	, and a second contraction of the second	463.95 4	*****************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		N/A		N/A	
LINE D	1+94.75	2+00.42	5.67	1	24	N/A	N/A	CONC	3.14	6.3	0.46	0.13	464.62	464.56	0.011	UDS	N/A	N/A	N/A	N/A	10	100	9.80	9.11	23.29	YES	2.90 2.90	0.942 0.033	0.002 0.002	···\$~~.»	466.24 4			0.43 BEN			N/A		N/A	
LINE D	2+00.42	2+04.92	4.50	1	24	N/A	N/A	CONC	3.14	6.3	0.46	0.13	464.67	464.62	0.011	UDS		N/A	N/A	N/A	10	100	9.80	9.11	23.84	YES	2.90	0.033	0.002	0.01	466.31 4	******************		0.17 BEN		······································	N/A	accessorites concentrations are accessori	N/A	***
	***************************************						***********				***************************************													J	20.01	1E3	2.90	0.026	0.001	0.005	466.38 4	66.36	0.15).16 UD	DS 1.5	0.02	466.38	8 472.31	5.93	
LINE E	0+00	0+21.40	21.40	1	18	N/A	N/A	CONC	1.77	2.4	0.38	0.13	466.34	464.67	0.078		1.69	0.90	1.52	1.52	10	100	9.80	14.91	29.32	YES	16.66	0.021	0.031	2.15	467.74	40E EO				***************************************	***************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\$2.000000000000000000000000000000000000
LINE E	0+21.40	0+25.68	4.28	1	18	N/A	N/A	CONC	1.77	4.7	0.38	0.13	466.67	466.34	0.078		1.69	0.90	1.52	1.52	10	100	9.80	14.91	29.30	YES	8.44	0.008	0.037	0.09	467.74 4						manne manne survey of the second	· · · · · · · · · · · · · · · · · · ·	N/A	······································
LINE E	0+25.68	0+41.41	15.73	1	18	N/A	N/A	CONC	1.77	4.0	0.38	0.13	467.90	466.67	0.078	***************************************	1.69	*****	1.52	1.52	10	100	9.80	14.91	29.37	YES	16.69	0.008	0.02	0.67	468.24 4 469.30 4					***************************************	N/A 469.30	N/A 0 470.29	N/A 0.99	***************************************
		·														~~				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	************		~~~~~	***************************************	***************************************							***************************************								
LINE F	0+00	0+13.50	13.50	1	18	N/A	N/A	CONC	1.77	2.1	0.33	0.13	464.91	464.67	0.018		0.59	0.46	0.27	0.27	10	100	9.80	2.66	14.01	YES	7.34	0.031	0.0311	4 20	465 70									
LINE F	0+13.50	0+19.20	5.70	1	18	N/A	N/A	CONC	1.77	4.7	0.41	0.13	465.02	464.91	0.019		0.59	0.46	0.27	0.27	10	100	9.80	2.66	14.64	YES	2.95	0.031	0.0316	4.22 0.13	465.79 4	~~~	0.36		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.42			N/A	\$
LINE F	0+19.20	1+30.30	111.10	1	18	N/A	N/A	CONC	1.77	4.7	0.41	0.13	467.03	465.02	0.018		0.59	0.46	0.27	0.27	10	100	9.80	2.66	14.13	YES	2.95	0.628	0.0047	1 21	*******************************		0.19		*************	***************************************	·····		N/A	
LINE F	1+30.30	1+34.50	4.20		18	N/A	N/A	CONC	1.77	4.7	0.41	0.13	467.10	467.03	0.017		0.59	0.46	0.27	0.27	10	100	9.80	2.66	13.50	YES	2.95	0.024	0.0047	0.05				0.36 BEN			N/A		N/A	***************************************
LINE F	1+34.50	1+59.10	24.60	1	18	N/A	N/A	CONC	1.77	4.7	0.41	0.13	467.55	467.10	0.018		0.59	0.46	0.27	0.27	10	100	9.80	2.66	14.19	YES	2.95	0.139	0.0238	0.05	468.49 4		******	*************			N/A		<u> </u>	
																******************************			***************************************		***************************************			***************************************	·		2.33	U.133	0.0001	0.05	468.74 4	06.04	U.14 C	.Z/ INLE	ET 1.5	0.20	468.74	4 472.05	3.31	

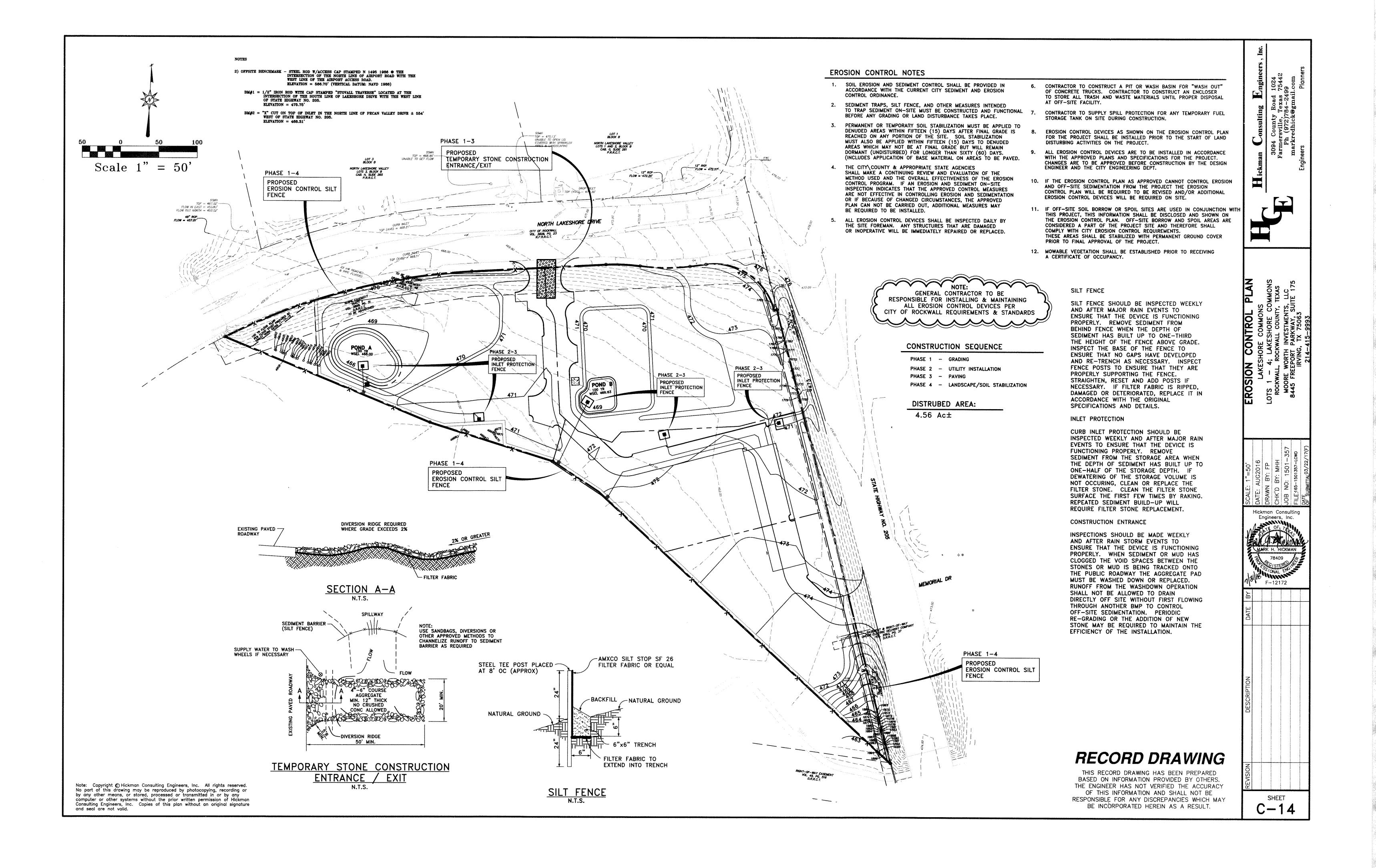
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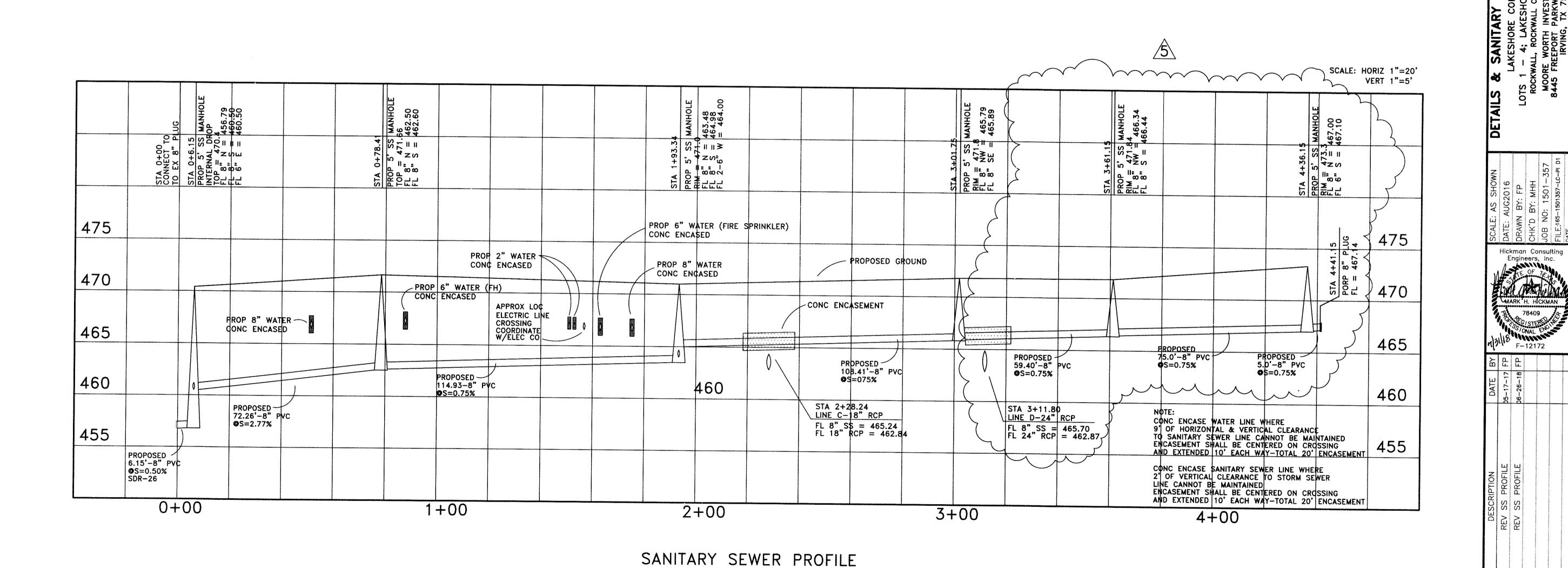
GENERAL NOTES:

- 1) ALL WORK WITHIN RIGHT-OF-WAY SHALL CONFORM TO CITY STANDARDS AND DETAILS & NCTCOG 3RD EDITION.
- 2) EXISTING UTILITIES SHOWN ARE FROM AVAILABLE RECORDS. LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING FACILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES. WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATIONS EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL EXPENSES.
- TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 4) THE CONTRACTOR SHALL PROVIDE MATERIAL AND QUALITY CONTROL TESTING AS REQUIRED BY OWNER. TESTS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: - DENSITY TESTS FOR GENERAL SITE FILL. (MINIMUM ONE TEST PER LIFT PER 10,000 S.F. FILL.) - DENSITY TESTS FOR UTILITY TRENCH BACK FILL (MINIMUM ONE TEST PER 100 L.F. ON EVERY OTHER LIFT) - CONCRETE CYLINDER TESTS. (MINIMUM 4 CYLINDERS PER 100 C.Y. OF MATERIAL.)
- CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF WATER IN STREETS, DRIVES, TRUCK COURTS, TRENCHES, ETC. WILL NOT BE ALLOWED.

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- 6) PAVEMENT REMOVAL AND REPAIR SHALL CONFORM TO CITY GUIDELINES. ALL SAW CUTS SHALL BE FULL DEPTH CUTS. CONTRACTOR SHALL MAKE EFFORTS TO PROTECT CONCRETE EDGES. ANY LARGE SPALLED OR BROKEN EDGES SHALL BE REMOVED BY SAW CUTTING PAVEMENT PRIOR TO REPLACEMENT. DOWEL NEW PAVEMENT TO EXISTING CONCRETE PAVEMENT WITH #6 SMOOTH DOWELS AT 15" C-C EACH FACE. DRILL DOWELS TO A DEPTH OF 12 INCHES AND GROUT OR EPOXY IN
- 7) EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF QUALIFIED PERSONNEL WORKING IN CONJUNCTION WITH THE PROJECT GEOTECHNICAL ENGINEER.
- 8) CONCRETE CURB TO BE CONSTRUCTED PER CITY STANDARDS.
- 9) SEE LANDSCAPE PLAN PRIOR TO ANY CLEARING AND/OR GRUBBING TO LOCATE WHICH TREES AND SHRUBS WILL REMAIN OR BE RELOCATED.
- 10) REVIEW UTILITY PLAN PRIOR TO ANY CLEARING AND/OR
- 11) REMOVE ALL EXISTING TREES, BUSHES, AND/OR SHRUBS IN THE PATH OF THE SIDEWALK CONSTRUCTION. SPECIAL LANDSCAPE FEATURES TO BE REPLACED WHEN DETERMINED BY THE CITY ENGINEER.
- 12) ALL EXPANSION JOINTS TO BE CONSTRUCTED AT EVERY 40 FEET, AT CURBS AND AT ALL DRIVEWAYS.
- 13) ALL CONSTRUCTION JOINTS SHALL BE PLACED AT 4 OR 5 FOOT INTERVALS ON 4 FOOT WIDE SIDEWALK AND AT EVERY 6 FOOT INTERVALS ON 6 FOOT SIDEWALKS.



SEE NCTCOG 3RD EDITION FOR ADDITIONAL SPECIFICATIONS AND DETAILS

Engineers, Inc.

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