WINSTON PARK SUBDIVISION **LEGEND** SURVEYOR'S CERTIFICATE **NORTH GRAPHIC SCALE** LOCATED IN THE NORTHEAST QUARTER OF SECTION 28, WEBER COUNTY SECTION CORNER SECTION LINE I, BRIAN A. LINAM DO HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR, IN THE STATE OF UTAH IN ACCORDANCE WITH TITLE 58. CHAPTER 22. PROFESSIONAL ENGINEERS AND LAND SURVEYORS ACT. AND TOWNSHIP 6 NORTH NORTH, RANGE 2 WEST, **BOUNDARY LINE** LOT CORNER (SET 5/8 REBAR AND CAP) THAT I HOLD CERTIFICATE NO. 7240531: AND THAT I HAVE COMPLETED A SURVEY OF THE PROPERTY DESCRIBED SALT LAKE BASE AND MERIDIAN ON THIS PLAT IN ACCORDANCE WITH SECTION 17-23-17 AND HAVE VERIFIED ALL MEASUREMENTS, AND HAVE **BOUNDARY CORNER** (SET 1/8 REBAR AND CAP) PLACED MONUMENTS AS REPRESENTED ON THIS PLAT ON THIS PLAT, AND THAT THIS PLAT OF WINSTON PARK 1 inch = 100 ft.WEBER COUNTY, UTAH SUBDIVISION IN WEBER COUNTY, UTAH, HAS BEEN DRAWN CORRECTLY TO THE DESIGNATED SCALE AND IS A TRUE P.U.E. PUBLIC UTILITY EASEMENT STREET CENTERLINE AND CORRECT REPRESENTATION OF THE HEREIN DESCRIBED LANDS INCLUDED IN SAID SUBDIVISION, BASED UPON DATA COMPILED FROM RECORDS IN THE WEBER COUNTY RECORDERS OFFICE AND FROM SAID SURVEY STREET MON. (TO BE CONST.) ---- EASEMENT LINE MADE BY ME ON THE GROUND, I FURTHER CERTIFY THAT THE REQUIREMENTS OF ALL APPLICABLE STATUES AND WEBER COUNTY BENCHMARK ORDINANCES OF WEBER COUNTY CONCERNING ZONING REQUIREMENTS REGARDING LOT MEASUREMENTS HAVE RIGHT OF WAY LINE 62121-2-5217 BEEN COMPILED WITH. SURVEY BENCHMARK 🔷 6-2 ELEVATION NGVD 88 = 4241.87' / SE - 21 (FOUND 3" BRASS CAP SET IN 6" C NORTHEAST CORNER OF CONCRETE POST. SET IN 1954 BY SECTION 28, TOWNSHIP 6 NORTH QUARTER CORNER OF SECTION 28, BUREAU OF RECLAMATION. GOOD NORTH, RANGE 2 WEST TOWNSHIP 6 NORTH, RANGE 2 WEST CONDITION) (FOUND 3" BRASS CAP (FOUND 3" BRASS CAP MONUMENT SET IN MONUMENT SET IN CONCRETE CONCRETE FLUSH WITH ROAD SURFACE. 2" BELOW ROAD SURFACE. MONUMENT SET IN 1963 BY WEBER COUNTY R 2 W HEREBY DEDICATED MONUMENT SET IN 1963 1800 SOUTH ST SURVEYOR DEPARTMENT. GOOD CONDITION) BASIS OF BEARINGS 1963 TO WEBER COUNTY BY WEBER COUNTY SURVEYOR N 89°15'08" W 2643.62' (MEASURED) FOR PUBLIC USE (PUBLIC ROAD) DEPARTMENT. GOOD 2643.46' (RECORD) CONDITION) STATE PLANE GRID BEARING = N 89°15'02' W S 89°15'08" E 1830.36' L141 152.35 - - -L2 - - -1465.78 LOT 101 LOT 154 14,520 SQ FT 12,832 SQ FT 0.333 ACRES 0.295 ACRES WINSTON PARK SUBDIVISION L34 Is there an easement on the LOT 153 LOT 102 storm drain BOUNDARY DESCRIPTION facilities? 12.884 SQ FT 14,520 SQ FT 0.333 ACRES 0.296 ACRES BEGINNING AT A POINT ON THE EXISTING FENCE LINE EXTENDED DEFINED AS THE WESTERLY BANK OF A SLOUGH, 10.0' PUE --SAID POINT BEING NORTH 89°15'08" WEST ALONG THE QUARTER SECTION LINE 152.35 FEET FROM THE NORTHEAST CORNER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN AND RUNNING LOT 152 LOT 103 THENCE ALONG SAID EXISTING FENCE AND WESTERLY BANK OF SAID SLOUGH THE FOLLOWING SEVEN (7) COURSES: 1) SOUTH 38°02'07" WEST 414.75 FEET; 2) SOUTH 37°51'05" WEST 188.07 FEET; 3) SOUTH 38°06'04" WEST 12,910 SQ FT 14,520 SQ FT 0.296 ACRES 513.12 FEET; 4) SOUTH 43°27'51" WEST 42.80 FEET; 5) SOUTH 39°10'43" WEST 191.74 FEET; 6) SOUTH 41°15'28" WEST 0.333 ACRES 152.02 FEET; 7) SOUTH 33°50'24" WEST 170.55 FEET TO A POINT ON THE 40 ACRE LINE; THENCE NORTH 89°14'12" OPEN SPACE "A" 162.07' LOT 150 WEST 812.89 FEET ALONG SAID 40 ACRE LINE; THENCE NORTH 00°41'23" EAST 1327.75 FEET TO THE QUARTER 677,841 SQ FT SECTION LINE; THENCE SOUTH 89°15'08" EAST ALONG SAID QUARTER SECTION LINE 1830.36 FEET TO THE POINT OF 15.561 ACRES LOT 104 13,838 SQ FT BEGINNING. LOT 149 ō 0.318 ACRES 12,962 SQ FT 14,520 SQ FT 0.298 ACRES 13,855 SQ FT <u>u</u> CONTAINS 40.259 ACRES 0.333 ACRES 318 ACRES 54 RESIDENTIAL LOTS & 2 OPEN SPACES OWNER'S DEDICATION (PUBLIC ROAD) L131 LOT 105 WE THE UNDERSIGNED OWNERS OF THE HEREIN DESCRIBED TRACT OF LAND, DO HEREBY SET APART AND FOR LOT ADDRESSES 14,520 SQ FT SUBDIVIDE THE SAME INTO LOTS AND STREETS AS SHOWN ON THE PLAT AND NAME SAID TRACT, WINSTON 0.333 ACRES SEE PAGE 2 PARK SUBDIVISION, AND DO HEREBY DEDICATE, FOR PERPETUAL USE OF THE PUBLIC ALL PARCELS OF LAND LOT 148 LOT 147 - C9-AND ROADS INTENDED FOR PUBLIC USE AND ALSO TO GRANT AND DEDICATE A PERPETUAL RIGHT AND 13,855 SQ FT EASEMENT OVER, UPON AND UNDER THE LANDS DESIGNATED HEREON AS PUBLIC UTILITY EASEMENTS 20' INGRESS EGRESS ACCESS 13,855 SQ FT 13,855 SQ FT 0.318 ACRES د STORM WATER DETENTION PONDS, SEWER EASEMENTS, AND DRAINAGE EASEMENTS, THE SAME TO BE USED 0.318 ACRES FOR PUBLIC USE 0.318 ACRES LOT 106 FOR THE INSTALLATION, MAINTENANCE, AND OPERATION OF PUBLIC UTILITY SERVICE LINE, AND STORM 14,520 SQ FT DRAINAGE FACILITIES, WITH NO BUILDINGS OR STRUCTURES BEING ERECTED WITHIN SUCH EASEMENTS. AND 0.333 ACRES L52 DO ALSO HEREBY DEDICATE AND GRANT TO WEBER COUNTY A PERPETUAL RIGHT AND EASEMENT ON AND 107.53 107.53' 121.66' 93.14' OVER OPEN SPACE PARCELS TO GUARANTEE TO WEBER COUNTY THAT SAID OPEN SPACE PARCELS REMAIN LOT 139 LOT 144 OPEN AND UNDEVELOPED, AND OPEN SPACE PURPOSES. LOT 143 LOT 142 LOT 140 LOT 138 LOT 107 14,375 SQ FT 14,520 SQ FT 14,672 SQ FT AND DO ALSO GRANT AND CONVEY TO THE SUBDIVISION LOT OWNERS ASSOCIATION, ALL THOSE PARTS OR 0.330 ACRES 0.333 ACRES 0.333 ACRES 0.333 ACRES 14,520 SQ FT 0.333 ACRES 0.333 ACRES 0.333 ACRES 0.337 ACRES PORTIONS OF SAID TRACT OF LAND DESIGNATED AS COMMON AREAS TO BE USED FOR RECREATIONAL AND 0.333 ACRES OPEN SPACE PURPOSES FOR THE BENEFIT OF EACH LOT OWNERS ASSOCIATION MEMBER IN COMMON WITH ALL OTHERS IN THE SUBDIVISION AND GRANT AND DEDICATE TO THE COUNTY A PERPETUAL OPEN SPACE RIGHT AND EASEMENT ON AND OVER THE COMMON AREAS TO GUARANTEE TO WEBER COUNTY THAT THE CHALGROVE RD (PUBLIC ROAD) LOT 108 COMMON AREAS REMAIN OPEN AND UNDEVELOPED EXCEPT FOR APPROVED RECREATIONAL, PARKING AND LOT 137 L132 OPEN SPACE PURPOSES. 14,520 SQ FT 16,789 SQ FT <sup>2</sup> 0.333 ACRES 0.385 ACRES DETAIL "A" LOT 130 LOT 129 LOT 133 SIGNED THIS DAY OF LOT 131 LOT 132 SCALE: 1"=50' L20 13,575 SQ FT 11,863 SQ FT 1,863 SQ FT 11.863 SQ FT 11,863 SQ FT 11,863 SQ FT LOT 136 LOT 109 0.312 ACRES 0.272 ACRES 0.272 ACRES 0.272 ACRES 0.272 ACRES 0.272 ACRES 14,520 SQ FT 112.34 112.34' 14,298 SQ FT 112.34 112.34' 94.84' WINSTON PARK SUBDIVISION 0.333 ACRES 0.328 ACRES L19 LOT 127 OPEN SPACE "B" ·S 43°27'51" W 42.80' 13,622 SQ FT 55,518 SQ FT LOT 110 0.313 ACRES 1.275 ACRES 13,852 SQ FT 14,520 SQ FT SEE DETAIL "A" 0.333 ACRES 0.318 ACRES **ACKNOWLEDGMENT** 122.13' 122.09' LOT 124 LOT 125 State of LOT 123 LOT 122 L18 ♂LOT 134 -S 39°10'43" W 191.74' County of 13,573 SQ FT 12,904 SQ FT C LOT 111 12,903 SQ FT 12,903 SQ FT 12,917 SQ FT 14,564 SQ FT 0.312 ACRES 0.296 ACRES 0.296 ACRES 0.296 ACRES 0.297 ACRES 14,520 SQ FT 0.334 ACRES ON THE DAY OF PERSONALLY 0.333 ACRES NARRATIVE APPEARED BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC L134 ABOVE OWNER'S DEDICATION AND CERTIFICATION, WHO BEING BY ME DULY SWORN, DID THE BOUNDARY OF THIS PLAT IS BASED ON THE ALTA/NSPS ACKNOWLEDGE TO ME SIGNED IT FREELY, VOLUNTARILY, AND FOR THE PURPOSES THEREIN SURVEY PERFORMED BY EVAN J. WOOD OF BENCHMARK We will need a MENTIONED. ENGINEERING ON FILE WITH THE WEBER COUNTY SURVEYOR'S -S 41°15'28" W 152.02' sewer easement 14,520 SQ FT OFFICE AS RECORD OF SURVEY#: 005615. EAST QUARTER CORNER OF on this parcel as 0.333 ACRES SECTION 28, TOWNSHIP 6 well granted. LOT 114 MY COMMISSION NUMBER: LOT 116 LOT 117 LOT 120 LOT 121 LOT 119 NORTH, RANGE 2 WEST NOTARY PUBLIC (PRINT NAME) 1. LOT CORNERS ABUTTING THE FRONTAGE OF A DEDICATED 15,470 SQ FT LOT 113 13,200 SQ FT 3,200 SQ FT 13.200 SQ FT 13.200 SQ FT (FOUND 3" BRASS CAP 3,200 SQ FT 13,200 SQ FT 0.355 ACRES STREET SHALL BE MARKED BY A PLUG & WASHER SET IN THE CURB 0.303 ACRES 0.303 ACRES | MONUMENT SET IN CONCRETE 1 0.317 ACRES 14,237 SQ FT MY COMMISSION EXPIRES: AT THE LOT LINE EXTENDED. BELOW ROAD SURFACE. 0.327 ACRES 20' SEWER EASEMENT -NOTARY PUBLIC -S 33°50'24" W 170.55' MONUMENT SET IN 1963 IN FAVOR OF RESIDING IN BY WEBER COUNTY SURVEYOR 144.98' DEPARTMENT. GOOD WINSTON PARK SUBDIVISION N 89°14'12" W 812.89' CONDITION) TEMPORARY FIRE TURNAROUND TO BE VACATED UPON LOCATED IN THE NORTHEAST QUARTER OF SECTION 28, CONTINUATION OF ROAD SOUTHERLY TOWNSHIP 6 NORTH NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN R 2 W WEBER COUNTY, UTAH PAGE 1 OF 2 OWNER / DEVELOPER: NAME: IGOR MAKSYMIW WEBER COUNTY RECORDER WEBER COUNTY PLANNING WEBER COUNTY SURVEYOR WEBER COUNTY ENGINEER WEBER COUNTY COMMISSION ACCEPTANCE WEBER COUNTY ATTORNEY TELEPHONE: (801) 209-6759 ENTRY NO. COMMISSION ACCEPTANCE FEE PAID I HAVE EXAMINED THE FINANCIAL GUARANTEE AND OTHER IGORMAKSYMIW@AOL.COM I HEREBY CERTIFY THAT THE WEBER COUNTY SURVEYOR'S FILED FOR RECORD AND I HEREBY CERTIFY THAT THE REQUIRED PUBLIC THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT, THE DOCUMENTS ASSOCIATED WITH THIS SUBDIVISION PLAT AND OFFICE HAS REVIEWED THIS PLAT FOR MATHEMATICAL THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT WAS DULY RECORDED IMPROVEMENT STANDARDS AND DRAWINGS FOR THIS DEDICATION OF STREETS AND OTHER OTHER PUBLIC WAYS IN MY OPINION THEY CONFORM WITH THE COUNTY OF OFFICIAL RECORDS, CORRECTNESS, SECTION CORNER DATA AND FOR HARMONY APPROVED BY THE WEBER COUNTY, PLANNING COMMISSION SUBDIVISION CONFORM WITH THE COUNTY STANDARDS AND AND FINANCIAL GUARANTEE OF PUBLIC IMPROVEMENTS ORDINANCE APPLICABLE THERETO AND NOW IN FORCE AND WITH LINES AND MONUMENTS OF RECORD IN COUNTY ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2020 PAGE THE AMOUNT OF THE FINANCIAL GUARANTEE IS SUFFICIENT ASSOCIATED WITH THIS SUBDIVISION, THEREON ARE HEREBY OFFICES. THE APPROVAL OF THIS PLAT BY THE WEBER RECORDED FOR: FOR THE INSTALLATION OF THESE IMPROVEMENTS. APPROVED AND ACCEPTED BY THE COMMISSIONERS OF SIGNED THIS DAY OF COUNTY SURVEYOR DOES NOT RELIEVE THE LICENSED LAND **BENCHMARK** SIGNED THIS DAY OF WEBER COUNTY, UTAH THIS \_\_\_\_ DAY OF \_\_\_\_\_ SURVEYOR WHO EXECUTED THIS PLAT FROM THE **ENGINEERING &** RESPONSIBILITIES AND/OR LIABILITIES ASSOCIATED THEREWITH. SIGNED THIS DAY OF LAND SURVEYING WEBER COUNTY RECORDER 9138 SOUTH STATE STREET SUITE # 100 SANDY, UTAH 84070 (801) 542-7192 **SIGNATURE** SIGNATURE CHAIRMAN, WEBER COUNTY PLANNING COMMISION SIGNATURE CHAIRMAN, WEBER COUNTY COMMISION www.benchmarkcivil.com DEPUTY

# WINSTON PARK SUBDIVISION

LOCATED IN THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN WEBER COUNTY, UTAH 2020

			CURVE TA	ABLE	
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	77.39'	170.00'	26°04'54"	N 76°11'45" W	76.72'
C2	31.42'	20.00'	90°00'00"	N 44°15'08" W	28.28'
C3	31.42'	20.00'	90°00'00"	S 45°44'52" W	28.28'
C4	23.56'	15.00'	90°00'00"	S 44°15'08" E	21.21'
C5	13.60'	15.00'	51°56'37"	N 64°46'33" E	13.14'
C6	75.07'	58.00'	74°09'36"	S 75°53'03" W	69.94'
C7	70.98'	58.00'	70°06'57"	N 31°58'41" W	66.63'
C8	70.33'	58.00'	69°28'26"	N 37°49'01" E	66.10'
C9	71.00'	58.00'	70°08'15"	S 72°22'39" E	66.65'
C10	13.60'	15.00'	51°56'37"	N 63°16'50" W	13.14'
C11	23.56'	15.00'	90°00'00"	S 45°44'52" W	21.21'
C12	287.38'	58.00'	283°53'13"	N 00°44'52" E	71.51'
C13	23.56'	15.00'	90°00'00"	S 44°15'08" E	21.21'
C14	13.91'	15.00'	53°07'48"	N 64°10'57" E	13.42'
C15	61.00'	60.00'	58°15'11"	S 66°44'39" W	58.41'
C16	68.77'	60.00'	65°40'01"	N 51°17'46" W	65.06'
C17	71.36'	60.00'	68°08'43"	N 15°36'37" E	67.23'
C18	24.58'	60.00'	23°28'25"	N 61°25'11" E	24.41'
C19	13.91'	15.00'	53°07'48"	S 46°35'29" W	13.42'
C20	24.81'	15.00'	94°46'35"	S 27°21'43" E	22.08'
C21	40.47'	200.00'	11°35'42"	N 68°57'09" W	40.41'
C22	63.73'	140.00'	26°04'54"	N 76°11'45" W	63.18'
C23	23.57'	15.00'	90°00'57"	S 45°45'20" W	21.22'
C24	23.56'	15.00'	89°59'03"	S 44°14'40" E	21.21'
C25	18.52'	15.00'	70°44'14"	N 55°23'42" E	17.37'
C26	28.61'	15.00'	109°16'43"	N 34°36'47" W	24.47'
C27	23.56'	15.00¹	90°00'00"	S 45°44'52" W	21.21'
C28	225.71'	60.00¹	215°32'20"	N 34°36'47" W	114.28'

	PARCEL LINE TA	BLE
LINE #	BEARING	DISTANCE
L1	S 63°09'18" E	22.14'
L2	S 89°15'08" E	126.29'
L3	S 00°44'52" W	79.88'
L4	S 00°44'52" W	99.36'
L5	S 00°44'52" W	99.43'
L6	S 00°44'52" W	99.50'
L7	S 00°44'52" W	99.56'
L8	S 00°44'52" W	99.63'
L9	S 00°44'52" W	99.70'
L10	S 00°44'52" W	99.77'
L11	S 00°44'52" W	99.84'
L12	S 00°44'52" W	99.91'
L13	S 00°44'52" W	99.98'
L14	S 00°44'52" W	100.05'
L15	S 00°44'52" W	98.18'
L16	N 89°15'08" W	145.08'
L17	S 89°15'08" E	145.18'
L18	N 89°15'08" W	145.28'
L19	S 89°15'08" E	145.38'
L20	N 89°15'08" W	145.48'
L21	S 89°15'08" E	145.58'
L22	N 89°15'08" W	145.68'
L23	S 89°15'08" E	145.79'
L24	N 89°15'08" W	145.89'
L25	S 89°15'08" E	145.99'
L26	N 89°15'08" W	146.09'
L27	S 89°15'08" E	146.19'
L28	S 00°44'52" W	77.03'
L29	S 00°44'52" W	96.78'
L30	S 00°44'52" W	96.98'
L31	S 00°44'52" W	82.73'
L32	S 89°15'08" E	133.13'
L33	S 89°15'08" E	133.13'
L34	S 89°15'08" E	133.13'
L35	S 00°44'52" W	96.98'
L36	S 00°44'52" W	97.73'
L37	S 00°44'52" W	109.50'
L38	S 89°15'08" E	118.13'
L39	S 89°15'08" E	47.61'
L40	N 22°57'51" E	92.69'
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PARCEL LINE TABLE					
LINE #	BEARING	DISTANCE			
L41	S 86°55'12" E	81.83'			
L42	S 17°26'47" E	88.84'			
L43	S 89°15'08" E	53.77'			
L44	S 89°15'08" E	111.97'			
L45	S 00°44'52" W	94.50'			
L46	S 89°15'08" E	126.97'			
L47	S 89°15'08" E	157.10'			
L48	S 89°15'08" E	93.86'			
L49	S 00°44'52" W	120.03'			
L50	N 89°15'08" W	92.89'			
L51	S 00°44'52" W	135.03'			
L52	S 89°15'08" E	107.89'			
L53	S 89°15'08" E	107.53'			
L54	N 89°15'08" W	107.53'			
L55	N 89°15'08" W	107.53'			
L56	N 89°15'08" W	107.53'			
L57	S 00°44'52" W	135.03'			
L58	N 89°15'08" W	107.53'			
L59	S 00°44'52" W	135.03'			
L60	N 89°15'08" W	107.53'			
L61	S 00°44'52" W	135.03'			
L62	N 89°15'08" W	107.53'			
L63	S 00°44'52" W	135.03'			
L64	N 89°15'08" W	107.53'			
L65	S 00°44'52" W	135.03'			
L66	N 89°15'08" W	46.87'			
L67	N 05°52'14" E	105.69'			
L68	S 71°32'15" W	90.42'			
L69	S 49°27'36" E	173.69'			
L70	N 20°01'35" E	77.72'			
L71	N 69°58'25" W	167.70'			
L72	N 20°01'35" E	91.22'			
L73	N 69°58'25" W	136.01'			
L74	N 20°01'35" E	114.23'			
L75	S 63°09'18" E	29.85'			
L76	S 63°09'18" E	14.43'			
	S 89°14'12" E	53.73'			
L78	S 00°45'48" W	165.00'			
L79	S 89°14'12" E	80.00'			
L80	N 00°45'48" E	165.00'			

	PARCEL LINE TA	BLE
LINE #	BEARING	DISTANCE
L81	S 89°14'12" E	80.00'
L82	S 00°45'48" W	165.00'
L83	S 89°14'12" E	80.00'
L84	N 00°45'48" E	165.00'
L85	S 89°14'12" E	80.00'
L86	S 00°45'48" W	165.00'
L87	S 89°14'12" E	80.00'
L88	N 00°45'48" E	165.00'
L89	S 89°14'12" E	80.00'
L90	S 00°45'48" W	165.00'
L91	S 89°14'12" E	79.07'
L92	S 00°44'52" W	150.00'
L93	S 00°44'52" W	90.57'
L94	N 89°15'08" W	129.00'
L95	S 00°44'52" W	105.60'
L96	S 89°14'12" E	114.02'
L97	S 89°14'12" E	122.18'
L98	S 00°44'52" W	105.63'
L99	S 89°14'12" E	122.13'
L100	S 00°44'52" W	105.67'
L101	S 89°14'12" E	122.09'
L102	S 00°44'52" W	105.70'
L103	S 89°14'12" E	93.25'
L104	N 20°01'35" E	101.36'
L105	N 20°01'35" E	111.87'
L106	N 20°01'35" E	90.74'
L107	N 89°15'08" W	110.64'
L108	S 00°44'52" W	105.60'
L109	N 89°15'08" W	112.34'
L110	S 00°44'52" W	105.60'
L111	N 89°15'08" W	112.34'
L112	S 00°44'52" W	105.60'
L113	N 89°15'08" W	112.34'
L114	S 00°44'52" W	105.60'
L115	N 89°15'08" W	112.34'
L116	S 00°44'52" W	105.60'
L117	N 89°15'08" W	114.01'
L118	S 00°44'52" W	90.60'
L119	N 89°15'08" W	129.00'
L120	S 00°44'52" W	105.60

PARCEL LINE TABLE				
LINE #	BEARING	DISTANC		
L121	S 00°44'52" W	105.60		
L122	S 89°32'47" E	17.45'		
L123	S 00°27'13" W	10.00'		
L124	S 89°32'47" E	17.40'		
L125	N 20°59'25" W	24.13'		
L126	N 89°15'08" W	50.00'		
L130	S 00°44'52" W	1327.80		
L131	S 89°15'08" E	268.22		
L132	N 89°15'08" W	782.43		
L133	N 20°01'35" E	399.33		
L134	S 89°14'12" E	657.81		

LOT	ADDRESS
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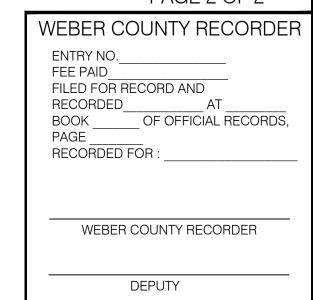
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VICINITY MAP
SCALE: N.T.S.



PAGE 2 OF 2



# WINSTON PARK

LOCATED IN THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN WEBER COUNTY, UTAH

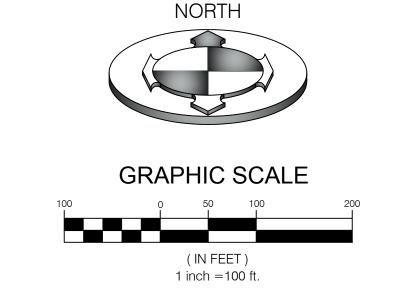
1800 SOUTH

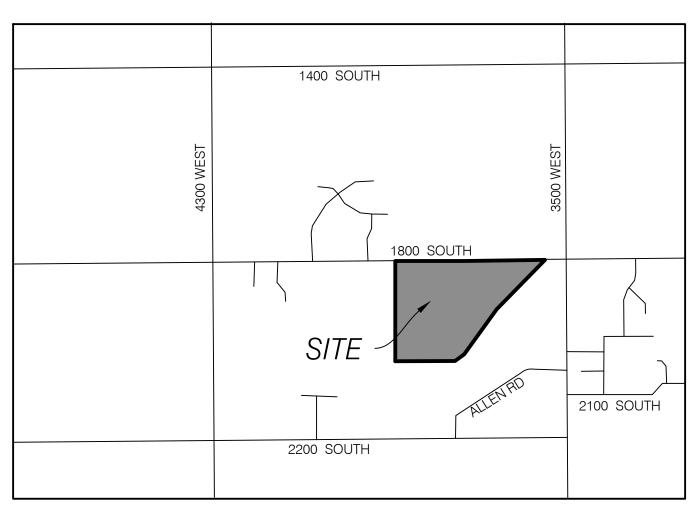
(PUBLIC STREET)

STANMORE DRIVE

FINSBURY DRIVE

ALDER COURT





VICINITY MAP
N.T.S

OWNER: IGOR MAKSYMIW EMAIL: igormaksymiw@aol.com

#### PRELIMINARY DRAWING INDEX

COVER COVER SHEET

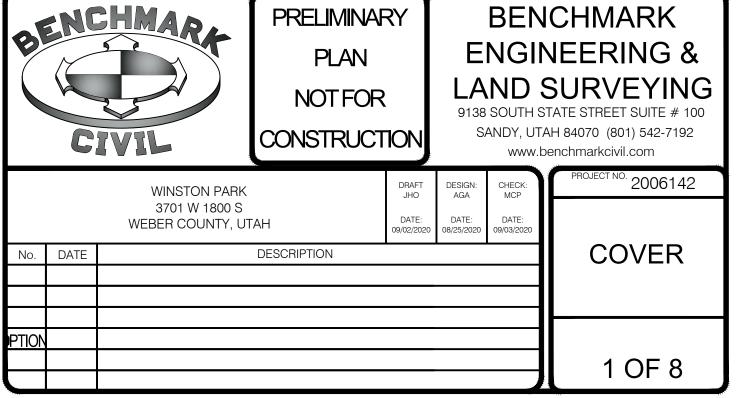
CGN.01 GENERAL NOTES, LEGEND AND ABBREVIATION

CSP.01 SITE PLAN
CSP.02 SITE PLAN
CUP.01 UTILITY PLAN

CUP.01 UTILITY PLAN
CGD.01 GRADING & DRAINA

CGD.01 GRADING & DRAINAGE PLAN CGD.02 GRADING & DRAINAGE PLAN

# PRELIMINARY CIVIL CONSTRUCTION PLANS





BENCHMARK ENGINEERING CONTACT: M. CHRIS POULSEN, PE

<u>NEW</u>	EXISTING	
		SECTION LINE
		PROPERTY LINE
		ADJACENT PL or LOT LINES
		RIGHT-OF-WAY LINE
		CENTERLINE of ROAD
		EASEMENT LINE
		CURB & GUTTER
'	<u> </u>	EDGE OF ASPHALT
· 000000000000000000000000000000000000	· 00000000000 ·	FENCE / WALL, STONE
		FENCE, BLOCK
		FENCE, BRICK
o	0	FENCE, CHAIN
		FENCE, IRON
<del></del>	<del></del>	FENCE, VINYL
X	X	FENCE, WIRE
*	*	FENCE, WOOD
— — <b>44</b> 75— - —	— — — — — <del>- 4475</del> — — —	INDEX CONTOUR LINE
		INTERMEDIATE CONTOUR LINE
XX.XX		SPOT ELEVATION
TOC SS	SS	SANITARY SEWER LINE
SD	SD	STORM DRAIN LINE
W	W	WATER LINE
IRR	IRR	IRRIGATION LINE
OHP	OHP	OVERHEAD POWER LINE
	———— UG ————	UNDERGROUND POWER LINE
GAS	GAS	GAS LINE
——т	т	TELEPHONE LINE
CATV	CATV	CABLE TELEVISION LINE
<del></del>	<del></del>	DRAINAGE / DITCH CENTERLINE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	^//////	TREE LINE EDGE
——— FO ———	——— FO ———	FIBER OPTIC LINE
		PROPOSED ASPHALT
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PROPOSED CONCRETE

NEW	EXISTING	
$\bigoplus$	<b>\rightarrow</b>	SECTION CORNER (FOUND)
•	<b>♦</b>	SECTION CORNER (NOT FOUND)
<del> </del>	<b>.</b>	STREET MONUMENT (FOUND)
	<del>•</del>	STREET MONUMENT (NOT FOUND)
		BRASS CAP MONUMENT
-0-	-0-	POWER POLE & OVERHEAD POWER
ф	ф	LIGHT POLE
-•	-•	GUY WIRE
1		TELEPHONE MANHOLE
S	S	SANITARY SEWER MANHOLE
<b>(D)</b>	(D)	STORM DRAIN MANHOLE
		CATCH BASIN
$\Rightarrow$	$\Rightarrow$	DIRECTION OF DRAINAGE
W	W	WATER MANHOLE
$\bowtie$	$\bowtie$	WATER VALVE
$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\langle\!\!\!\langle \!\!\!\langle \rangle\!\!\!\rangle$	WATER METER
$\ddot{\mathcal{R}}$		FIRE HYDRANT
$\bowtie$	$\bowtie$	IRRIGATION VALVE
<b>©</b>	G)	GAS MANHOLE
		TREE

#### ABBREVIATIONS

POINT OF INTERSECTION

POWER POLE

PT POINT OF TANGENCY

#### CONSTRUCTION NOTES

RESPONSIBLE DISTRICTS OR AGENCIES AND APPLICABLE STANDARDS WATER UTILITY COMPANY- HOOPER WATER IMPROVEMENT DISTRICT SEWER- WEBER COUNTY TORM DRAIN/GROUNDWATER- WEBER COUNTY ELECTRICAL- ROCKY MOUNTAIN POWER TELEPHONE- CENTURY LINK NATURAL GAS- DOMINION ENERGY

APPLICABLE STANDARDS: APWA 2017 STANDARDS

CONSTRUCTED UNDER THIS CONTRACT

#### <u>GENERAL</u>

1. ALL MATERIALS AND CONSTRUCTION IN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH RESPONSIBLE DISTRICT OR AGENCY.

CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL ATTEND ALL PRE-CONSTRUCTION CONFERENCES AND PERIODIC PROGRESS MEETINGS. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT RESPONSIBLE DISTRICT OR AGENCY FOR A PRE-CONSTRUCTION CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE APPROPRIATE PROJECT CONTACTS (48) HOURS IN ADVANCE OF SAID MEETING.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS.

4. THE CONTRACTOR SHALL FAMILIARIZE HIM/HER SELF WITH THE PLANS, THE GEOLOGY REPORTS AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL INSPECT THE SITE OF WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK.

CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE

SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE RELIED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE

THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SLICH INDEPENDENT NVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING THEIR BID.

ALL WORK SHALL COMPLY WITH THE AMERICAN PUBLIC WORKS ASSOCIATION UTAH CHAPTER (APWA) MANUAL OF STANDARD SPECIFICATIONS 2017 EDITION AND THE MANUAL OF STANDARD PLANS 2017 EDITION. SAID STANDARD SPECIFICATIONS AND PLANS SHALL BE SUBSIDIARY TO MORE STRINGENT REQUIREMENTS BY APPLICABLE LOCAL

THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. IT SHALL BE EXPECTED THAT THE PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE.

THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS ON THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN REGULAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE DURING THE CONSTRUCTION PROGRAM UNUSUAL OR PECULIAR UNSAFE CONDITIONS. HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT. AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN APPROPRIATE PERMITS WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHT-OF-WAY OR EASEMENTS FROM THE CITY AND/OR UDOT. CONTRACTOR SHALL NOTIFY CITY, COUNTY, AND/OR STATE, 24 HOURS IN ADVANCE OF COMMUNICATING THE WORK, OR AS REQUIRED BY SAID PERMITS.

8. CONSTRUCTION STAKING FOR GRADING, CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN, WATER, AND ELECTROLIERS SHALL BE DONE BY THE OWNER'S SURVEYOR. THE CONTRACTOR SHALL NOTIFY THE SURVEYOR FORTY-EIGHT (48) HOURS IN ADVANCE OF THE NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND STANDARD STAKING NEEDS. WILL BE SUBJECT TO AN EXTRA WORK BACK CHARGE TO THE CONTRACTOR. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.

9. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND/OR ENGINEER

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S AND/OR REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

11. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT OF EXISTING IMPROVEMENTS AND ANYTHING THAT HAS ALREADY BEEN CONSTRUCTED. THERE WILL BE NO EXTRA COST DUE THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY

12. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL; ELECTRICAL AND INSTRUMENTATION EQUIPMENT; PIPING AND CONDUITS; STRUCTURES AND OTHER FACILITIES. THE AS-BUILTS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO SERVICES, PULLBOXES, AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.

13. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO ENGINEER. ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATION REDLINES AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.

4. CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE,

15. ALL UTILITES INSTALLED IN ACCORDANCE WITH THE RESPONSIBLE DISTRICTS OR AGENCIES STANDARDS AND **SPECIFICATIONS** 

16. COORDINATE ALL SERVICE LATERAL AND BUILDING CONNECTIONS WITH CORRESPONDING ARCHITECTURAL MECHANICAL OR ELECTRICAL DRAWING FOR LOCATION AND ELEVATION. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED.

17. ALL STORM DRAIN MANHOLES AND CATCH BASINS ARE TO BE PRECAST CONCRETE FROM APPROVED LOCA MANUFACTURER UNLESS OTHERWISE NOTED. AND COMPLY WITH CITY/COUNTY STANDARD

8. ALL STORM WATER CONVEYANCE PIPING TO BE RCP - CLASS 3 OR ADS HDPE PIPE OR EQUAL UNLESS

only outside of the ROW or with permission from county engineer

19. ALL ELECTRICAL CONDUITS/LINES TO BE PVC SCH 40 OR BETTER.

AND INDIVIDUAL UTILITY CODES.

20. ALL GAS LINES TO BE HDPE WITH COPPER TRACER WIRE AND DETECTA TAPE. TERMINATE TRACER WIRE AT APPROVED LOCATIONS.

21. ALL GAS LINE TAPS, VALVES AND CAPS TO BE FUSED USING ELECTRO - FUSION TECHNOLOGY.

22. ALL PHONE AND TV CONDUITS TO BE PVC SCH 40 OR BETTER.

NO GROUNDWATER OR DEBRIS TO BE ALLOWED TO ENTER THE NEW PIPE DURING CONSTRUCTION. THE OPEN END OF ALL PIPES IS TO BE COVERED AND EFFECTIVELY SEALED AT THE END OF EACH DAYS WORK.

24. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4' OR MORE AND SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG

25. PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

26. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL PIPE OF ADEQUATE CLASSIFICATION WITH SUFFICIENT BEDDING TO MEET ALL REQUIREMENTS AND RECOMMENDATIONS FOR H-20 LOAD REQUIREMENTS.

ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF TERILIZATION AND TESTING OF NEW WATER MAINS. ALL EXISTING WATER VALVES TO BE OPERATED UNDER THE DIRECTION OF THE CITY/COUNTY PUBLIC WORKS DEPARTMENT PERSONNEL ONLY.

28. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE INSPECTED, TESTED, AND APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, AND STREET PAVING

<u>SEWER</u>

account for ground

29. ALL SEWER LINE TO BE FLUSHED, PRESSURE TESTED TO 5 PSI VIDEO INSPECTED AND OTHERWISE TESTED IN ACCORDANCE WITH DISTRICT STANDARDS PRIOR TO PLACING IN SERVICE.

30. ALL SEWER PIPES ARE TO BE SDR-35 PVC PIPE.

SEWER MANHOLES, LATERALS AND CLEANOUTS TO BE INSTALLED PER RESPONSIBLE DISTRICT OR AGENCY STANDARDS. THE UNIT COST OF THE SEWER LATERAL INCLUDES CONNECTION TO THE SEWER MAIN. THE CLEANOUT BISER FOR EACH SERVICE SHALL BE INSTALLED BY THE CONTRACTOR

32. DURING CONSTRUCTION OF THE SEWERLINE, WYES NEED TO BE INSTALLED FOR THE LATERALS. LATERALS ARE 4\* AND NEED TO COME IN AT THE TOP OF THE PIPE WITH A WYE. (SEE RESPONSIBLE DISTRICT OR AGENCY STANDARDS)

#### WATER

33. WATERLINES TO BE PVC C-900, WATER LINES SHALL BE A MINIMUM OF 10' HORIZONTALLY FROM SEWER MAINS CROSSINGS SHALL MEET STATE HEALTH STANDARDS. (MECHANICAL JOINTS REQUIRED WHEN LESS THAN 18" VERTICAL OR TEN FEET HORIZONTAL SEPARATION FROM SEWERLINE)

34. ALL WATERLINES SHALL BE 8" MINIMUM SIZE AND SERVICE LATERALS SHALL BE 1-1/2" MINIMUM UNLESS

35. WATER SERVICE LATERALS TO INCLUDE ALL BRASS SADDLE: CORP. STOP LATERAL. DOUBLE CHECK VALVE AND BACKFLOW PREVENTION DEVICE. AND SHUTOFF VALVE IN BOX NEAR BUILDING EDGE

36. ALL WATERLINES SHALL BE 48" BELOW FINISH GROUND TO TOP OF PIPE. ALL VALVE BOXES AND MANHOLES SHALL BE RAISED OR LOWERED TO FINISH GRADE AND SHALL INCLUDE A CONCRETE COLLAR IN PAVED AREAS. ALL WATER LINES SHALL BE LOOPED AROUND GRAVITY LINES OR ROPED PER RESPONSIBLE DISTRICT OR AGENCY

37 CONTRACTOR TO NOTIFY RESPONSIBLE DISTRICT OR AGENCY FOR CHI ORINE TEST PRIOR TO FILLISHING LINES. CHLORINE LEFT IN PIPE 24 HRS. MINIMUM WITH 25 PPM RESIDUAL. ALL TURNING OF MAINLINE VALVES, CHLORINATION, FLUSHING, PRESSURE TESTING, BACTERIA TESTING, ETC. TO BE COORDINATED WITH RESPONSIBLE DISTRICT OR AGENCY. ALL TESTS TO BE IN ACCORDANCE WITH RESPONSIBLE DISTRICT OR AGENCY.

38. BOTTOM FLANGE OF FIRE HYDRANTS TO BE SET TO APPROXIMATELY 4 INCHES ABOVE BACK OF CURB ELEVATION. HYDRANTS TO INCLUDE TEE. 6" LINE VALVE. AND HYDRANT COMPLETE TO MEET RESPONSIBLE DISTRICT OR AGENCY

#### EXISTING UTILITIES

STANDARDS, UNLESS OTHERWISE NOTED ON PLANS.

39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN. THE INFORMATION SHOWN ON THE PLANS WITH REGARDS TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATION AND/OR RECORD INFORMATION. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE FACILITIES SHOWN AND ANY OTHER FACILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES SO, THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUMP CLEARING COST OR IN THE VARIOUS ITEMS OF WORK. IF LOCATION AND/OR ELEVATION FERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION BE MADE PRIOR TO CONSTRUCTION.

40. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD. THEIR MAIN AND SERVICE LINES, THE CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT O DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.

41 ALL MANHOLE RIMS, LAMPHOLES, VALVE BOX COVERS, MONLIMENT BOXES AND CATCH BASIN GRATES ARE TO BE ADJUSTED TO FIT THE FINISHED GRADE AFTER PAVING, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR SAID FACILITIES.

42. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL PIPES, WALLS, ETC. ARE ADEQUATELY BRACED DURING CONSTRUCTION.

#### CLEARING AND GRADING

43 CONTRACTOR SHALL PERFORM FARTHWORK IN ACCORDANCE WITH APWA 2017 STANDARD DRAWINGS AND STANDARD SPECIFICATIONS AND THE RECOMMENDED EARTHWORK SPECIFICATION FOUND IN THE PROFESSIONALLY PREPARED REPORT OF GEOTECHNICAL INVESTIGATION.

44. THE CONTRACTOR SHALL REMOVE ALL VEGETATION AND DELETERIOUS MATERIALS FROM THE SITE UNLESS NOTED OTHERWISE; ALL EXISTING WELLS AND SEPTIC TANKS SHALL BE REMOVED AND/OR ABANDONED PER THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL REGULATIONS. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.

45. SUBSOIL INVESTIGATIONS MUST BE CONDUCTED AT THE SITE OF THE WORK. ALL FOOTING, FOUNDATION OR STRUCTURAL WALL CONSTRUCTION MUST ADHERE TO THE RECOMMENDATIONS DETAILED BY THE PROFESSIONAL REPORT OF THESE INVESTIGATIONS, CREATED BY A LICENSED GEOTECHNICAL ENGINEER.

46. SOIL INVESTIGATIONS MUST BE CONDUCTED BY A LICENSED GEOTECHNICAL ENGINEER FOR DESIGN PURPOSES ONLY, AND THE DATA SHOWN IN THE REPORTS ARE FOR SUBSURFACE CONDITIONS FOUND AT THE TIME OF THE INVESTIGATION, THE OWNER AND ENGINEER DISCLAIM RESPONSIBILITY FOR THE INTERPRETATION BY THE CONTRACTOR OF DATA, SUCH PROJECTION OR EXTRAPOLATION, FROM THE TEST HOLES TO OTHER LOCATIONS ON THE SITE OF THE WORK, SOIL BEARING VALUES AND PROFILES, SOIL STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER FOR SUBSURFACE CONDITIONS DURING CONSTRUCTION OPERATIONS.

47. ALL PROPOSED ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO FINISHED SURFACE, THE CONTRACTOR IS RESPONSIBLE TO DEDUCT THE THICKNESS OF THE PAVEMENT STRUCTURAL SECTION FOR TOP OF SUB GRADE

48. IF AT ANY TIME DURING CONSTRUCTION ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, WORK IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED FROM THE ENGINEER.

49. UNSUITABLE MATERIAL, SUCH AS TOP SOIL, WEATHERED BED ROCK, ETC., SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER (AND/OR ENGINEERING GEOLOGIST, WHERE EMPLOYED) FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.

50. NO TREES SHALL BE REMOVED OR DAMAGED WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM PROPERTY

51. THE EXISTING TOPOGRAPHY ON THESE PLANS IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY BENCHMARK ENGINEERING AND LAND SURVEYING ON 7/31/20 HAVE BEEN MODIFIED SINCE THIS SURVEY WAS

FILLS IN EXCESS OF 4 FEET IN THICKNESS AND BENEATH ALL FOUNDATIONS OR PAVEMENT SECTIONS SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 COMPACTION CRITERIA. ALL OTHER STRUCTURAL FILL LESS THAN 4 FEET IN THICKNESS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF THE ABOVE CRITERIA. THE GEOTECHNCIAL REPORT.

53. COMPACTION TESTING WILL BE ACCOMPLISHED BY THE CONTRACTOR, OR THE CONTRACTOR WILL HAVE SUCH FESTING ACCOMPLISHED BY A SEPARATE CONTRACTOR. TEST RESULTS WILL BE SUBMITTED FOR REVIEW WITHIN 24

54. CONTRACTOR TO SUBMIT PROCTOR AND/OR MARSHALL TEST DATA 24 HOURS PRIOR TO COMPACTION TESTS.

55. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE

56. ALL SLOPES IN ADJOINING STREETS, DRAINAGE CHANNELS, OR OTHER FACILITIES SHALL BE GRADED NO STEEPER THAN 2 TO 1 FOR CUT AND FILL.

57. GRADES WITHIN ASPHALT PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE

HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. ALL CURBS SHALL BE BUILT IN ACCORDANCE TO THE PLAN. CURBS AND PAVEMENT AREAS WHICH ARE NOT INSTALLED PER PLAN MUST BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE

58. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.

59. WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY; PRIOR TO PLACEMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSE SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPE AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE NTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER POURS WITHOUT THE APPROVAL OF THE ENGINEER.

60. SITE WORK SHALL MEET OR EXCEED OWNER'S SITE SPECIFICATIONS.

61. ALL SITE CONCRETE OR CONCRETE ELEMENT NOT SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS TO HAVE A MINIMUM OF 28 DAY COMPRESSION STRENGTH OF 4000 PSI.

62. CUT SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL

63. FILL SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL

64. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT

DEWATERING

65. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF THE WATER SO AS NOT TO CALISE DAMAGE TO PUBLIC OR PRIVATE PROPERTY OR TO CALISE A NUISANCE OR MENACE TO THE PUBLIC OR VIOLATE THE LAW. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUND LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT. BELOW THE BOTTOM OF EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION: DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE

66. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED.

67. SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN TO THE SUMPS.

68. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS OR "BOILS", DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL FOUNDATION SOILS, VENT DISTURBANCE OF COMPACTED BACKFILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS. IF A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR DISPOSAL OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES, IT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY DEWATERING ACTIVITIES.

69 ONE HUNDRED PERCENT STANDRY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES AND SHALL BE CONNECTED TO THE DEWATERING SYSTEM PIPING AS TO PERMIT IMMEDIATE USE. IN ADDITION STANDBY EQUIPMENT AND APPLIANCES FOR ALL ORDINARY EMERGENCIES, AND COMPETENT WORKMEN FOR OPERATION AND MAINTENAN OF ALL DEWATERING EQUIPMENT SHALL BE ON SITE AT ALL TIMES. STANDBY EQUIPMENT SHALL INCLUDE EMERGENCY POWER GENERATION AND ALITOMATIC SWITCH OVER TO THE EMERGENCY GENERATOR WHEN NORMAL POWER FAILS. DEWATERING SYSTEMS SHALL NOT BE SHUT DOWN BETWEEN SHIFTS, ON HOLIDAYS, ON WEEKENDS, OR DURING WORK

#### SITE SAFETY AND MAINTENANCE

NORMAL STATIC GROUNDWATER LEVEL.

70. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

THE CONTRACTOR AGREES THAT:

A. THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.

B. THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT

C. THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES. D. THEY SHALL BE RESPONSIBLE TO KEEP MATERIALS, FOUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF

E. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND

UNLESS OTHERWISE NOTED ALL EXCESS SOILS AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.

G. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.

)R SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.

. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.

72. FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS, THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES, THE NEED FOR ANY TRAFFIC ROUTING PLAN. IF PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVED PROPER APPROVALS PRIOR TO BEGINNING CONSTRUCTION. WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID AND/OR RIGHT-OF-WAY. ALL CONSTRUCTION WORK IN UDOT RIGHT- OF -WAY SHALL BE SUBJECT TO INSPECTION BY THE STATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT INSPECTIONS TAKE PLACE WHERE AND WHEN REQUIRED AND TO INSURE THAT ALL WORK IS COMPLETED

SURFACE IMPROVEMENTS:

73. SUBGRADE PREPARATION: SUBGRADE SHALL BE COMPACTED TO A 95% RELATIVE COMPACTION TO A MINIMUM. DEPTH OF 6" FOR ALL ON-SITE DEVELOPMENT. ALL OFF-SITE IMPROVEMENTS ARE TO BE DONE PER APWA STANDARDS.

74. AGGREGATE SUB-BASE: AGGREGATE SUB-BASE SHALL BE GRANULAR BACKFILL BORROW. AGGREGATE SUB-BASE MATERIAL SHALL BE CLEAN AND FREE FROM VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCE. AGGREGATE SHALL COMPLY WITH THE GUIDELINE REQUIREMENTS FOR PAVEMENTS FOUND IN THE PROFESSIONALLY PREPARED OF THE SOILS INVESTIGATIONS COMPLETED ON THIS SITE.

75. AGGREGATE BASE: AGGREGATE BASE SHALL BE GRADE 3/4 UNTREATED BASE COURSE, AND COMPLY PREPARED REPORT OF THE SOILS INVESTIGATION PREPARED ON THIS SITE.

76. ALL SIDEWALKS AND CROSSINGS TO MEET CURRENT ADA STANDARDS/ APWA STANDARDS.

77. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE GENERAL NOTES. AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.

78. INSTALLATION OF STREET LIGHTS SHALL BE IN ACCORDANCE WITH CITY STANDARDS. 79. PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS BUILT BY THESE PLANS AND SPECIFICATIONS THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE OWNER, CITY, AND POWER COMPANY TO HAVE THE

ELECTRICAL SYSTEM AND ALL STREET LIGHTS ENERGIZED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR

80. STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH MUTCD & APWA 32 17 23.

81. DURING THE BIDDING PROCESS, CONTRACTOR TO REVIEW DESIGN SLOPES SHOWN FOR PAVEMENT AND WARRANTY THE PAVEMENT TO THE OWNER BASED UPON THE DESIGN SLOPES SHOWN HEREON. CONCERNS WITH SLOPES MUST BE BROUGHT DURING THE BIDDING PROCESS.

82. IT IS THE INTENT ON THESE PLANS THAT ALL PAVEMENT SLOPE TO A CATCH BASIN, INLET BOX OR OUT INTO A STREET.CONTRACTOR TO VERIFY FINISH SPOT ELEVATIONS AND NOTIFY ENGINEER IF THERE ARE DISCREPANCIES THAT WOULD CAUSE PUDDLING ON THE SITE.

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**PRELIMINARY** 

CONSTRUCTIO

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**LEGEND &** ABBREV.

**CGN.01** 



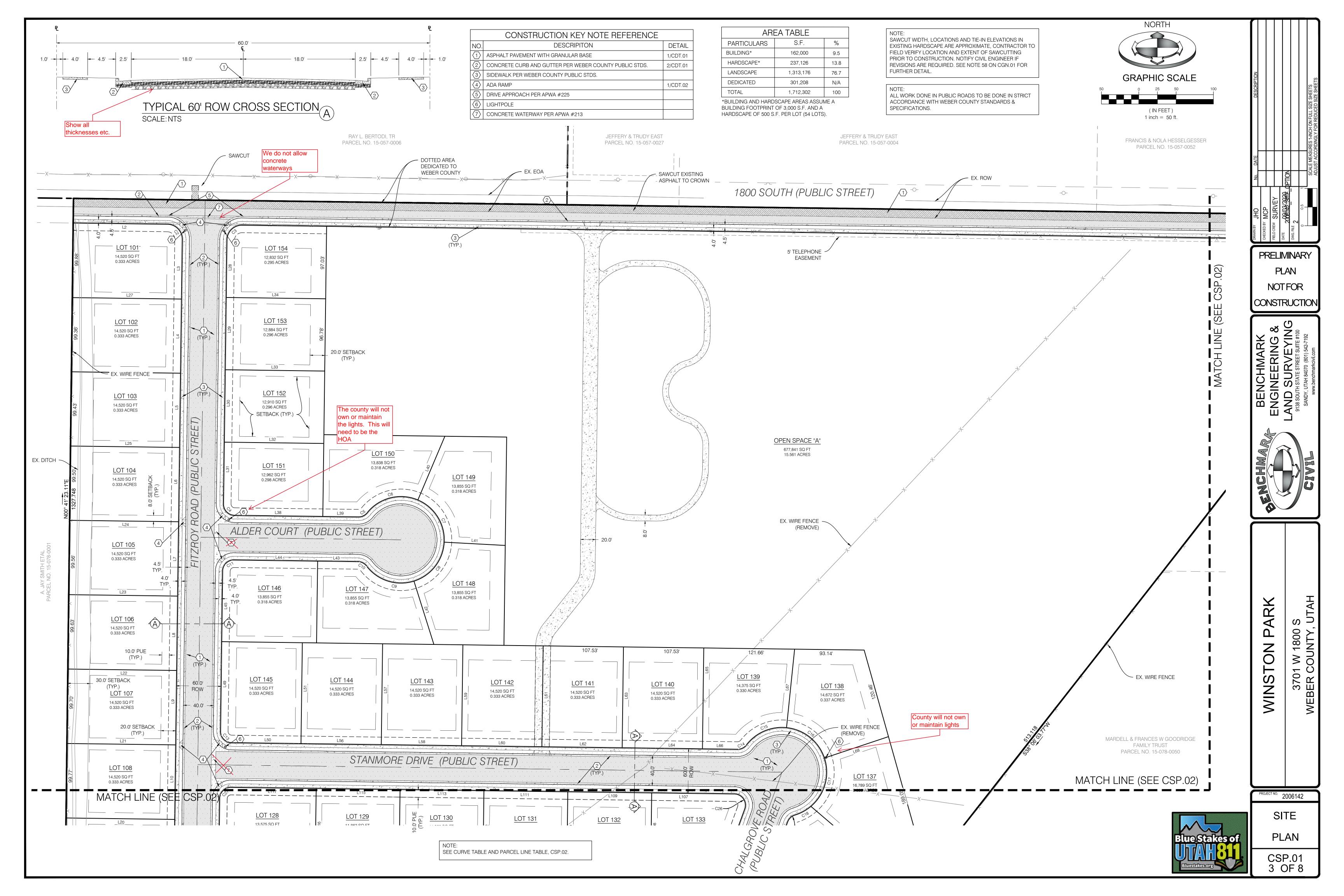
IN THE EVENT THAT THE CONSTRUCTION NOTES CONFLICT WITH RESPONSIBLE DISTRICT OR AGENCY STANDARDS NOTES AND SPECIFICATIONS, THE DISTRICT OR AGENCY STANDARD NOTES AND SPECIFICATIONS GOVERN.

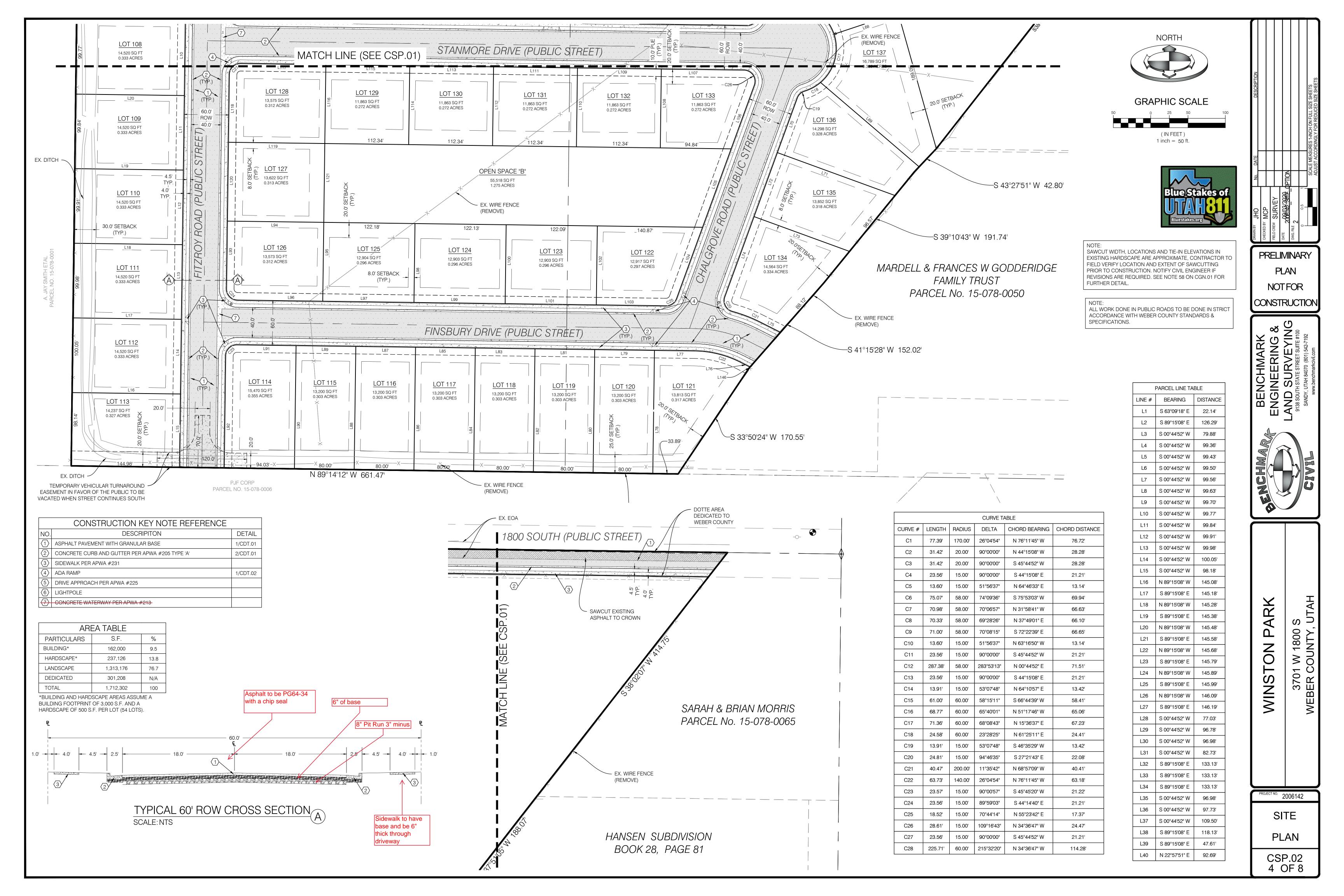
## **CAUTION NOTICE TO CONTRACTORS**

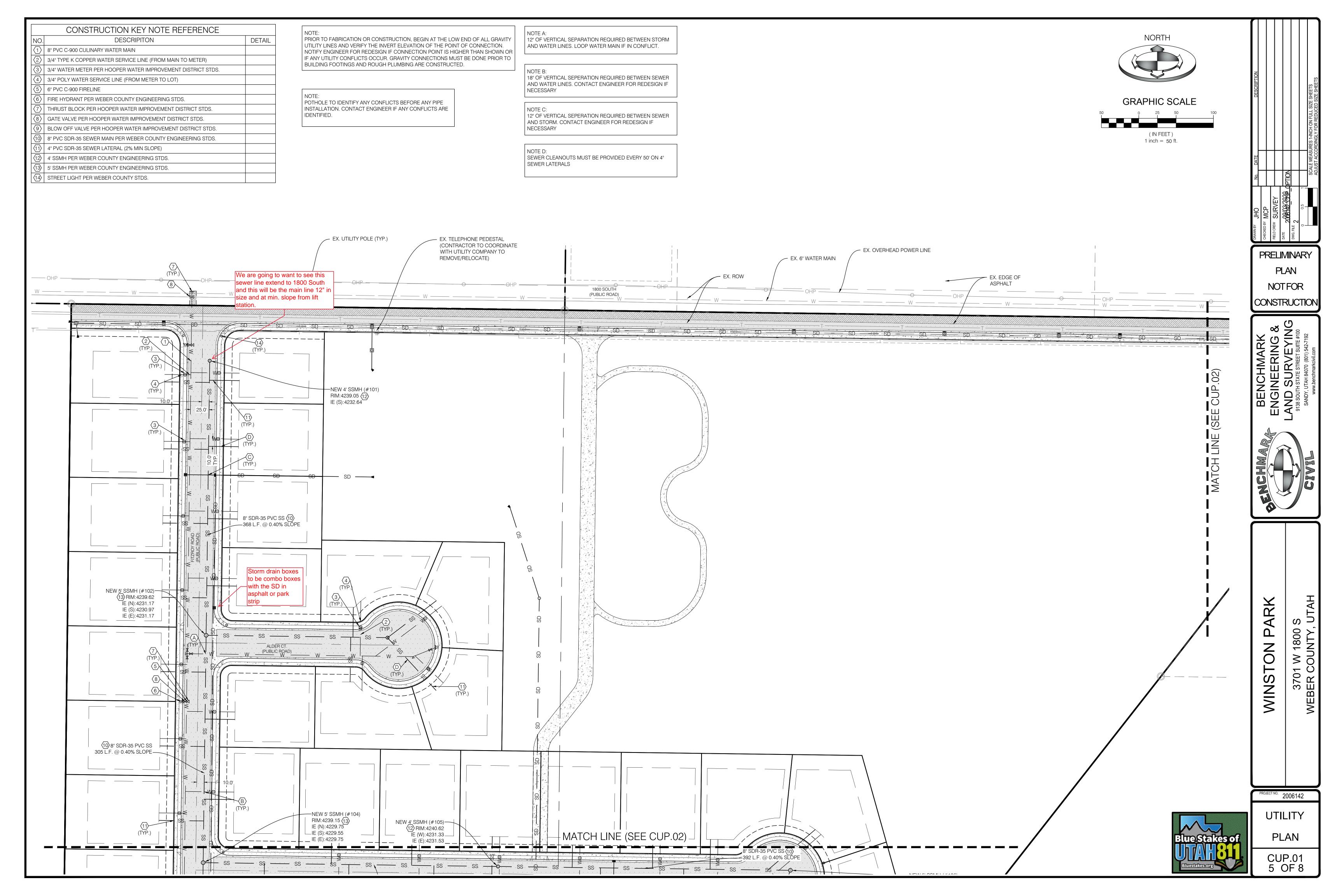
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE 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.

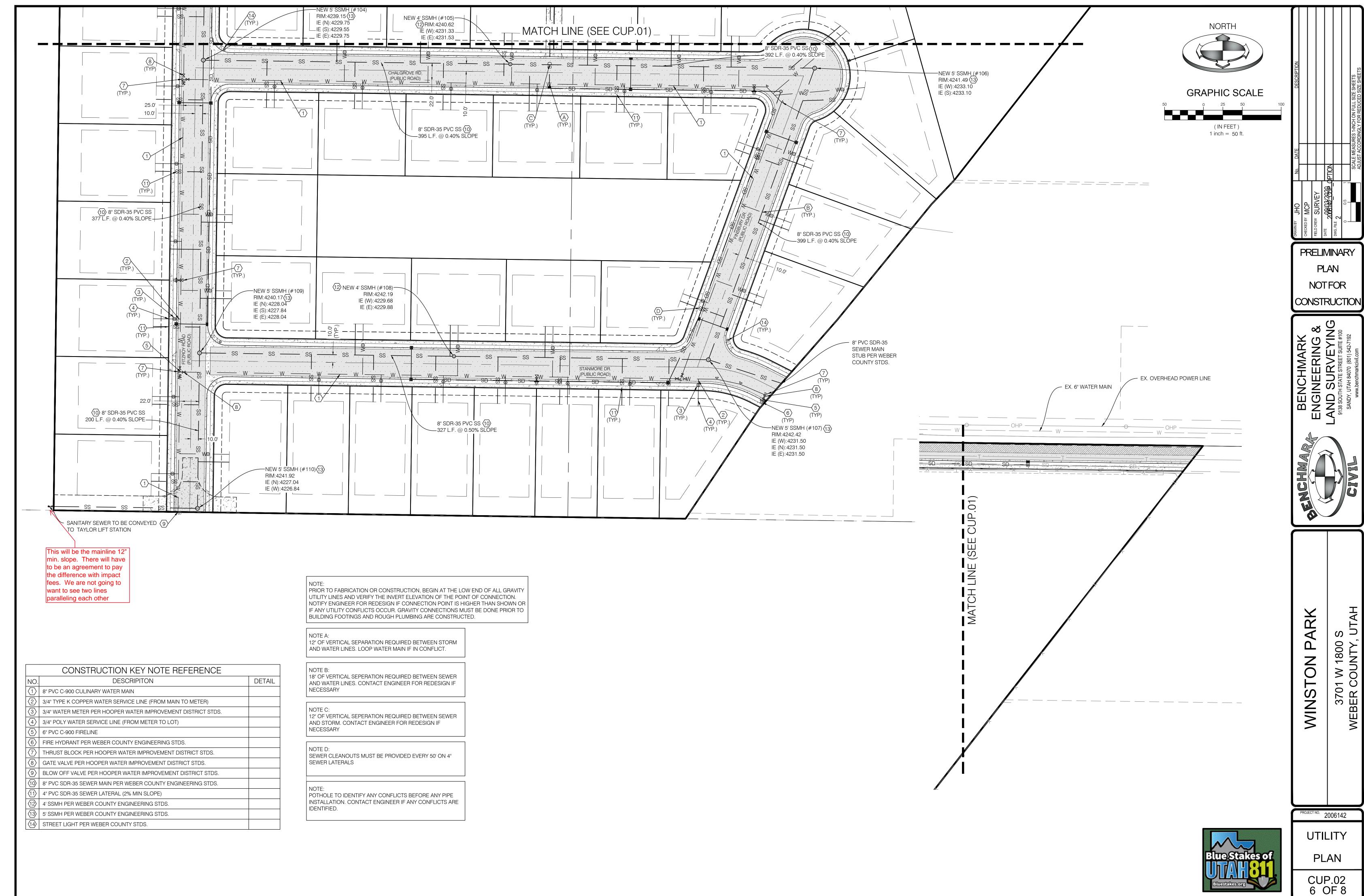
THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO THE NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AN HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.





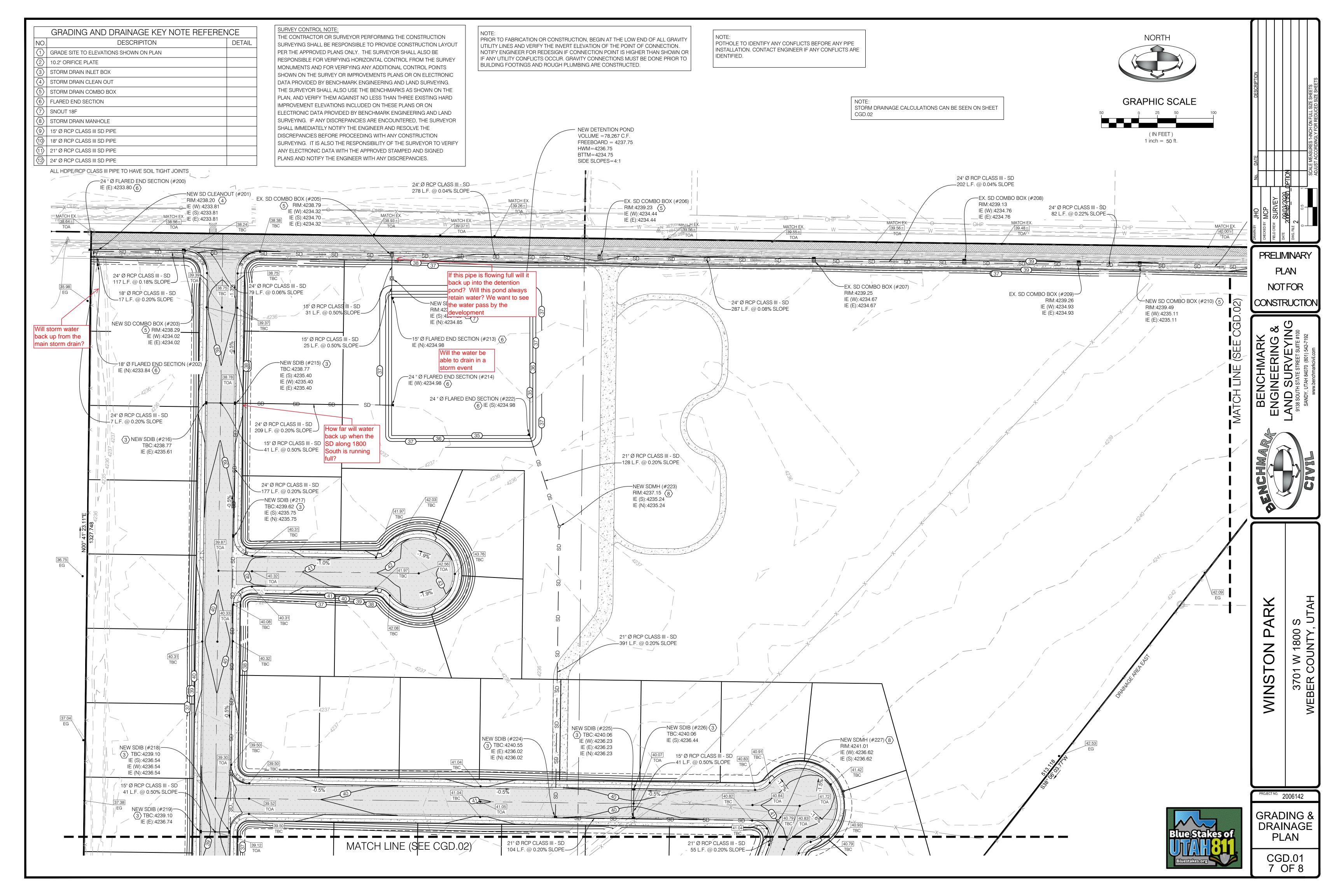


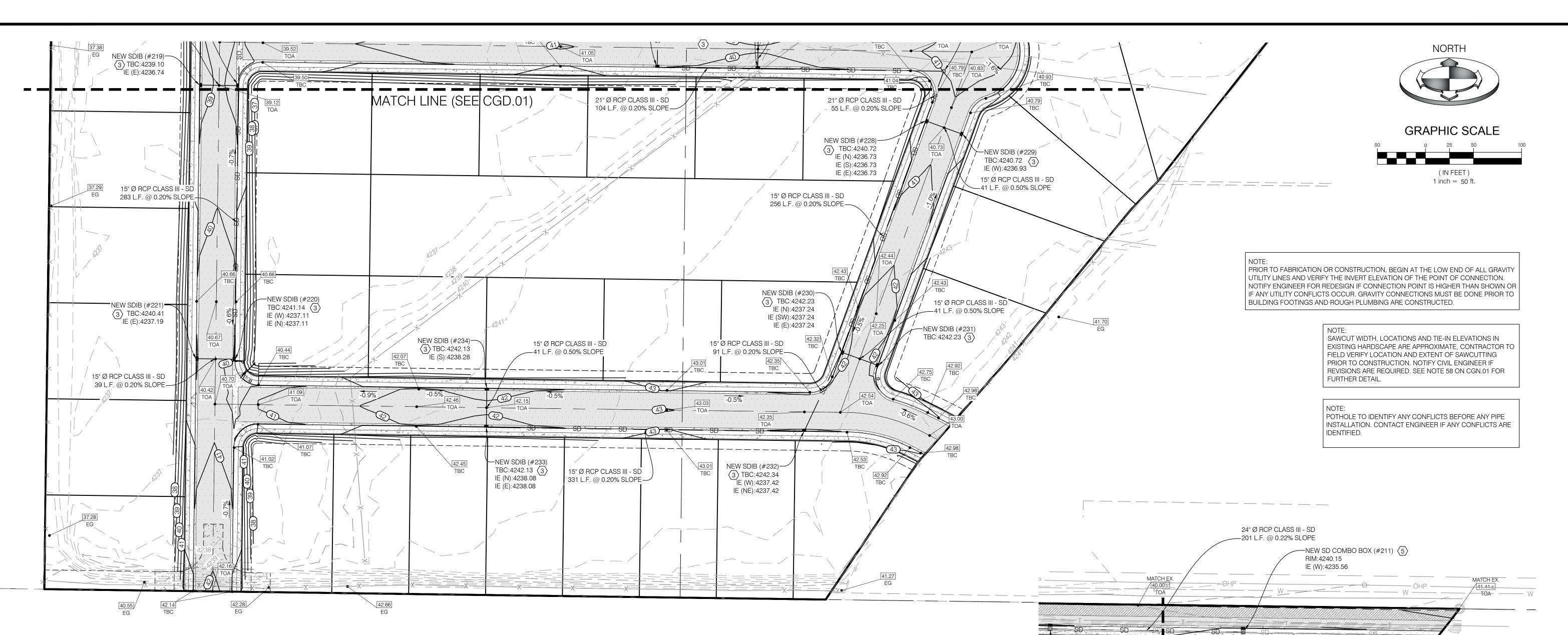






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	GRADING AND DRAINAGE KEY NOTE REFEREN	ICE
NO.	DESCRIPITON	DETAIL
1	GRADE SITE TO ELEVATIONS SHOWN ON PLAN	
2	5" ORIFICE PLATE	
(3)	STORM DRAIN INLET BOX	
4	STORM DRAIN CLEAN OUT	
(5)	STORM DRAIN COMBO BOX	
6	FLARED END SECTION	
7	SNOUT 18F	
8	STORM DRAIN MANHOLE	
9	15" Ø RCP CLASS III SD PIPE	
(10)	18" Ø RCP CLASS III SD PIPE	
(11)	21" Ø RCP CLASS III SD PIPE	
(12)	24" Ø RCP CLASS III SD PIPE	
·	ALL HDDE/RCD CLASS III DID TO HAVE SOIL TIGHT IOINTS	_

ALL HDPE/RCP CLASS III PIP TO HAVE SOIL TIGHT JOINTS

### **SURVEY CONTROL NOTE:**

THE CONTRACTOR OR SURVEYOR PERFORMING THE CONSTRUCTION SURVEYING SHALL BE RESPONSIBLE TO PROVIDE CONSTRUCTION LAYOUT PER THE APPROVED PLANS ONLY. THE SURVEYOR SHALL ALSO BE RESPONSIBLE FOR VERIFYING HORIZONTAL CONTROL FROM THE SURVEY MONUMENTS AND FOR VERIFYING ANY ADDITIONAL CONTROL POINTS SHOWN ON THE SURVEY OR IMPROVEMENTS PLANS OR ON ELECTRONIC DATA PROVIDED BY BENCHMARK ENGINEERING AND LAND SURVEYING. THE SURVEYOR SHALL ALSO USE THE BENCHMARKS AS SHOWN ON THE PLAN, AND VERIFY THEM AGAINST NO LESS THAN THREE EXISTING HARD IMPROVEMENT ELEVATIONS INCLUDED ON THESE PLANS OR ON ELECTRONIC DATA PROVIDED BY BENCHMARK ENGINEERING AND LAND SURVEYING. IF ANY DISCREPANCIES ARE ENCOUNTERED, THE SURVEYOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND RESOLVE THE DISCREPANCIES BEFORE PROCEEDING WITH ANY CONSTRUCTION SURVEYING. IT IS ALSO THE RESPONSIBILITY OF THE SURVEYOR TO VERIFY ANY ELECTRONIC DATA WITH THE APPROVED STAMPED AND SIGNED PLANS AND NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.

## STORM DRAINAGE CALCULATIONS Rational Method (Q=CIA)

Coefficient (C)

NEW SD COMBO BOX (#210)

RIM:4239.49 IE (W):4235.11

IE (E):4235.11

Roof =		162,000		0.9		145800 S.F.	
Pavement =		237,126		0.9		213413 S.F	
Landscaping	=	1,313,176		0.2		262635 S.F.	
Sum:		1712302 S.F.			Sum:	621848 S.F	
NOAA ATLA	S 14 (100 Y	EAR STORM)		Allowable Dis	charge =	.10cfs/acr	
Time	Intensity	Rainfall	Rainfall	Allowed	Volume	to Detain	
<del></del>			Excess	Discharge			
(min)	(in/hr)	(inches)	(cu.ft.)	(cu.ft)	(0	u.ft)	
15	4.10	1.025	53116	3538	4:	9578	
30	2.76	1.380	71513	7076	6	4437	
60	1.71	1.710	88613	14151	74462 68084		
120	0.93	1.860	96387	28303			
180	0.64	1.905	98718	42454	5	6265	
360	0.35	2.124	110067	84908	2.	5160	
720	0.22	2.604	134941	169815	0		
1440	0.12	2.904	150487	339630			

**Detention Calculations** Pond Volume

WEST Pond Civil 3D = 78,267 cf

Area Identification (A)

Pipe Volume 15 in. Pipe

Length = 2,597 lf 3,187 cf

Is there adequate storage?

Storage Provided = 81,454 cf Req. Storage = **74,462 cf** YES

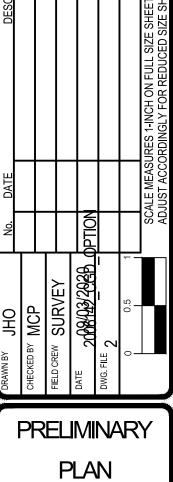
C\*A

Orifice Design:

The storm runoff will be detained at 0.2 cfs/acre

Total acreage of development: 39.31 acres Allowable discharge: 0.1 cfs/acre

2.00 ft Design diameter for new orifice: 10.2 inch



NOTFOR CONSTRUCTION



ARK WINSTON

W 1800 OUNTY, 3701 '

OJECT NO. 2006142

**GRADING &** DRAINAGE PLAN

> CGD.02 8 OF 8