SHEET INDEX

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SUBDIVISION PLAT	C0.11
MASTER DEVELOPMENT PLAN	C0.20
OVERALL DRAINAGE PLAN	C1.00
OVERALL DRAINAGE PLAN AND CALCULATIONS	C1.01
DRAIN "A" ~ STA: 1+00.00 TO END; PLAN AND PROFILE	C1.02
DRAIN "B" ~ STA: 1+00.00 TO STA: 14+50.00; PLAN AND PROFILE	C1.03
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KROEGER AVENUE ~ STA. 20+11.16 TO STA. 27+00.00; STREET PLAN AND PROFILE	C2.00
KROEGER AVENUE ~ STA. 27+00.00 TO STA. 30+87.18; STREET PLAN AND PROFILE	C2.01
MUSTANG PASS ~ STA. 30+87018 TO END; STREET PLAN AND PROFILE	
WINDMILL AVENUE ~ STA. 0+90.00 TO END; STREET PLAN AND PROFILE	
JOHN WAYNE ROAD ~ STA. 42+16.96 TO END; STREET PLAN AND PROFILE	C2.02
WILD COLT WAY ~ STA. 0+90.00 TO END; STREET PLAN AND PROFILE	C2.03
CARTER LANE ~ STA. 0+90.00 TO END; STREET PLAN AND PROFILE	C2.04
STREET DETAILS	C2.10
STREET DETAILS	C2.11

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SADDLE RIDGE ESTATES PHASE 3 LYTLE, TEXAS **CIVIL CONSTRUCTION PLANS** SHEET INDEX



PREPARED FOR:

RAUSCH COLEMAN HOMES SAN ANTONIO, LLC 4058 NORTH COLLEGE AVE. SUITE 300, BOX 9 FAYETTEVILLE, ARKANSAS 72703

SEPTEMBER 2024





2000 NW LOOP 410 I SAN ANTONIO, 10.375.900TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028800

Sheet Description	Sheet No.
OVERALL SIGNAGE PLAN	C3.00
SIGNAGE DETAILS	C3.10
SIGNAGE DETAILS	C3.11
OVERALL WATER DISTRIBUTION PLAN	C4.00
WATER DISTRIBUTION DETAILS	C4.10
WATER DISTRIBUTION NOTES	C4.11
OVERALL SANITARY SEWER PLAN	C5.00
SANITARY SEWER LINE "A" ~ STA: 1+00.00 TO END; PLAN AND PROFILE	C5.01
SANITARY SEWER LINE "B" ~ STA: 1+00.00 TO END; PLAN AND PROFILE	C5.02
SANITARY SEWER LINE "C" ~ STA: 2+03.00 TO END; PLAN AND PROFILE	C5.03
SANITARY SEWER DETAILS	C5.10
SANITARY SEWER NOTES	C5.11
OVERALL UTILITY PLAN	C6.00
OVERALL UTILITY PLAN	C6.01
STORM WATER POLLUTION PREVENTION PLAN	C8.00
STORM WATER POLLUTION PREVENTION PLAN DETAILS	C8.10
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CITY OF		(5
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		BLC
	4	5
LEGEND SCALE: 1" = 4000' N: 13628298.	38 🖌	<u>N89</u>
AC ACRE(S) VOL VOLUME E: 2036280.	36	,00, 2.00
BLK BLOCK PG PAGE(S) BSL BUILDING SETBACK LINE ROW RIGHT-OF-WAY	4	<u>کت</u>
CB COUNTY BLOCK VAR WID VARIABLE WIDTH DPR DEED AND PLAT RECORDS		8
OF ATASCOSA COUNTY, (SURVEYOR) (UNLESS NOTED OTHERWISE) TEXAS O SET 1/2" x 2' IRON ROD (PD)		<u>}</u>
OPR OFFICIAL PUBLIC RECORDS INT INTERSECTION (OFFICIAL PUBLIC RECORDS -1140 - EXISTING CONTOURS		
OF REAL PROPERTY) OF TI40 PROPOSED CONTOURS ATASCOSA COUNTY, TEXAS & CENTEDI INE		× / 55.
PR PLAT RECORDS OF ATASCOSA COUNTY, TEXAS		` `o
10' GAS, ELECTRIC, TELEPHONE S EXISTING VARIABLE WIDTH (MIN.		25.0
AIND CABLE IV EASEMENT Y 10') GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO DO DO DO DO DO	ł	/
EXPIRE UPON INCORPORATION INTO		55.00
10' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTER PLATTER PLATT	ŀ	<u>ч</u> . Ж
50'X50' WATER, SEWER, GRADING AND DRAINAGE EASEMENT TO	4	55.00 3LOC
EXPIRE UPON INCORPORATION INTO PLATTED R.O.W.		<u>., ш</u> / _ N
(0.172 ACRE OFF-LOT) 40' OFF-SITE DRAINAGE EASEMENT		2.00
TO EXPIRE UPON INCORPORATION (DOC. NO. 242491 OPR) INTO PLATTED R.O.W./LOT (0.525 1 SADDLE RIDGE ESTATES, PHASE 1		រដ្ឋ / /
ACRE OFF-LOT) (DOC. NO. 202100013 OPR) PROPOSED 75' DRAINAGE EASEMENT 2 SADDLE RIDGE ESTATES, PHASE 2&5		, O
(BY-SEPERATE-INSTRUMENT) (2.288 ACRES OFF-LOT) (2.288 ACRES OFF-LOT) (2.288 ACRES OFF-LOT) (3 MEADOWBROOK ESTATES, UNIT 3	,	55.
(VOL. 1, PG. 193A DPR) EXISTING 10' GAS, ELECTRIC, TELEPHONE AND CABLETY		
EASEMENT (DOC. NO. 202100013 OPR) (VOL. 24, PGS. 130-133 OPR)		55.0
EXISTING 10' GAS, ELECTRIC, (DOC. NO. 222827)	. 9	<u> </u>
TELEPHONE AND CABLE TV EASEMENT (DOC. NO. 202300030 OPR) SAN ANTONIO LD, LLC. REMAINING PORTION OF 27.635 ACRES	43.1	55.00
(DOC. NO. 217149)	12	<u> </u>
61.582 ACRE TRACT (VOL. 424, PGS. 406-409 DR)	2	55.00
	, P	
1. MONUMENTS WERE FOUND OR SET AT EACH CORNER OF THE SURVEY BOUNDARY	7 ,60	0.695
OF THE SUBDIVISION AS NOTED. MONUMENTS AND LOT MARKERS WILL BE SET WITH $\frac{1}{2}$ " IRON ROD WITH CAP MARKED "PAPE-DAWSON" OR MAG NAIL WITH DISK MARKED	, 0	
"PAPE-DAWSON" AFTER THE COMPLETION OF UTILITY INSTALLATION AND STREET CONSTRUCTION UNLESS NOTED OTHERWISE.	z	5.00
2. COORDINATES SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 NAD83 (NA2011) EPOCH 2010.00 FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR		تن ۱
COOPERATIVE CORS NETWORK.	4	. 00
1.00017. 4. BEARINGS ARE RASED ON THE NORTH AMERICAN DATUM OF 1082 NAD22 (NAD211)	(^ي 5
EPOCH 2010.00, FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE SOUTH CENTRAL ZONE.	ľ	.00
STATE OF TEXAS		т 55.
		, XX
THEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN THIS PLAT TO THE MATTERS OF STREETS, LOTS, AND DRAINAGE LAYOUT.	CITY OF	BLC 55.0
		/
JON D ADAME PE	ETJ	55.00
REGISTERED PROFESSIONAL ENGINEER #82567 PAPE-DAWSON CONSULTING ENGINEERS. LLC		- 1
2000 NW LOOP 410 SAN ANTONIO, TX 78213		55.00
SWORN TO AND SUBSCRIBED BEFORE ME THIS THE DAY OF,		
A.D., 20		1.50
		× 54
STATE OF TEXAS NOTARY PUBLIC IN AND FOR BEXAR COUNTY, TEXAS		V
COUNTY OF BEXAR	4	86.72 ್ಸ್ಗಿ
I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THIS PROPERTY MADE UNDER MY SUPERVISION ON		,0 / 5
THE GROUND.		
TOM H. MILO, RPLS REGISTERED PROFESSIONAL LAND SURVERYOR #6527		11.94
PAPE-DAWSON CONSULTING ENGINEERS, LLC. 2000 NW LOOP 410 SAN LANTONIO TX 20242		ت ے 1
SAN AN LONIO, TX 78213		\mathbb{G}^{\times}
A.D., 20 .	0	

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PRELIMINARY SUBDIVISION PLAT OF DLE RIDGE ESTATES DLE RIDGE ESTATES PHASE 3 F 17.570 ACRES OUT OF A 27.635 ACRE TRACT OF LAND OCUMENT NUMBER 217149 OF THE OFFICIAL PUBLIC ASCOSA COUNTY, TEXAS, OUT OF THE BAUMGARTNER , ABSTRACT 87, IN THE CITY OF LYTLE, ATASCOSA	SADDLE RIDGE ESTATES PHASE 3	NO. REVISION DATE
COP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 NEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800 E OF PREPARATION: September 23, 2024 GTON HOWN ON THIS PLAT, AND WHOSE NAME IS SUBSCRIBED RSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES THE USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, RSSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES THE USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, RSSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES THE USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, RSSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES THE USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, RSSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES THE USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, RSSON OR THROUGH A DUSING RATION THEREIN EXPRESSED. TSCOTT A. PETERS SAN ANTONIO LD, LLC 4058 N COLLEGE AVE, STE 300, BOX 9 FAYETTEVILLE, ARKANSAS 72703 (79) 455-9090 GTON DERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED MOWN TO ME TO BE THE PERSON WHOSE NAME IS FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME MOWN TO ME TO BE THE PERSON WHOSE NAME IS POREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME	Civil Job No. 11100-26	THE PAPERDANDON FOR PAPERDANDON SON ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800
NOTARY PUBLIC, WASHINGTON COUNTY, ARKANSAS ROVAL OF THE CITY OF LYTLE, TEXAS HEREBY CERTIFIES THAT THIS CONFORMS TO ALL REQUIREMENTS OF THE SUBDIVISION CITY AS TO WHICH HIS APPROVAL IS REQUIRED.	The Sea TA TOMA TO A TO	SADDLE RIDGE ESTATES PHASE 3 LYTLE, TEXAS PLAT
		PLAT NO JOB NO DATE FEBRUARY 2024 DESIGNER CHECKEDJA CHECKEDJA BHEET SHEET

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CURVE # C1 C2 C3 C4 C5	RADIUS 125.00' 75.00'	CUR DELTA 6'36'43"	E: 1" = 4000' VE TABLE CHORD BEARIN			
CURVE # C1 C2 C3 C4 C5	RADIUS 125.00' 75.00'	DELTA 6*36'43"	CHORD BEARIN			
C1 C2 C3 C4 C5	125.00' 75.00'	6*36'43"		IG I	CHORD	I FNGTH
C2 C3 C4 C5	75.00'		N86°47'45"W		14.42'	14.42'
C3 C4		11°03'50"	S84*34'11"E		14.46'	14.48'
C5	125.00' 25.00'	12°22'26"	S83*54'53"E		26.94' 16 83'	27.00'
	60.00'	143*50'46"	S45°07'58"E		114.08'	150.64'
C6	25.00'	39 ° 19'41"	N7*07'34"E		16.83'	17.16'
C7	125.00'	12*22'26"	S6°21'03"E		26.94'	27.00'
C8	25.00'	89 ° 56'16"	S45'07'58"E		35.34'	39.24'
C9 C10	25.00	89 ⁻ 53 ⁻ 23" 90°06'37"	N44 ⁻ 57'12"E N45 ' 02'48"W		35.32' 35.39'	39.22' 39.32'
C11	25.00'	90°03'44"	S44*52'02"W		35.37'	39.30'
C12	25.00'	89 • 56'16"	S45°07'58"E		35.34'	39.24'
C13	25.00'	90.03'44"	S44*52'02"W		35.37'	39.30'
C14	75.00 [°]	89*56'16" 90*03'44"	S45°07'58"E		106.01 [°]	117.73' 39.30'
C16	25.00'	89 ° 56'16"	S44*52'02"W S45*07'58"E		35.34'	39.24'
C17	25.00 '	89*53'23"	N44*57'12"E		35.32'	39.22'
C18	25.00 '	90 ° 06'37"	N45°02'48"W		35.39'	39.32'
LINE		-		IN	IF TARI	F
			LINE #			
	'09'50"E	82.86'	L19		D*06'06"W	120.00'
L2 S89	9*59'30"E	50.00'	L20	N٤	39 ° 53'54"E	50.00'
L3 N0	•00'30"E	14.69'	L21	s	0*06'06"E	50.00'
L4 N90)*00'00"E	109.86'	L22	S8	9*53'54"W	50.00'
L6 S0'	'54'20"W	37.36'	L23	S	0°06'06"E	50.00'
L7 N90	••00'00"w	114.58'	L25	N۶		
	·····			1.10	39 * 53'54"E	35.76'
L8 S0'	′27′55 ″ W	50.00′	L26	S	39*53'54"E 0*06'06"E	35.76' 50.00'
L8 S0 [•] L9 N89	27′55"W *32'05"W	50.00' 50.00'	L26 L27	S	39*53'54"E 0*06'06"E 0*27'55"W	35.76' 50.00' 39.59'
L8 S0 [•] L9 N89 L10 N0 L11 Nor	27'55"W *32'05"W *27'55"E	50.00' 50.00' 30.31' 49.42'	L26 L27 L28	S S N8	39*53'54"E 0*06'06"E 0*27'55"W 39*32'05"W 0*27'55"F	35.76' 50.00' 39.59' 50.00' 39.49'
L8 S0" L9 N89 L10 N0 L11 N90 L12 S0"	27'55"W *32'05"W *27'55"E *000'00"E *06'06"E	50.00' 50.00' 30.31' 49.42' 20.00'	L26 L27 L28 L29 L30	S S N N N	39 [•] 53'54"E 0 [•] 06'06"E 0 [•] 27'55"W 9 [•] 32'05"W 0 [•] 27'55"E 0 [•] 00'32"E	35.76' 50.00' 39.59' 50.00' 39.49' 35.78'
L8 S0* L9 N89 L10 N0 L11 N90 L12 S0* L13 N90	"27'55"W "32'05"W "27'55"E D'00'00"E "06'06"E "00'00"W	50.00' 50.00' 30.31' 49.42' 20.00' 49.42'	L26 L27 L28 L29 L30 L31	S S N N N S S S	39°53'54"E 0°06'06"E 0°27'55"W 9°32'05"W 0°27'55"E 0°00'32"E 9°53'54"W	35.76' 50.00' 39.59' 50.00' 39.49' 35.78' 40.00'
L8 S0* L9 N89 L10 N0 L11 N90 L12 S0* L13 N90 L14 S89	"27'55"W "32'05"W "27'55"E "00'00"E "06'06"E "00'00"W "53'39"W	50.00' 50.00' 30.31' 49.42' 20.00' 49.42' 40.00'	L26 L27 L28 L29 L30 L31 L32	N8 N8 N8 N8 N8 N8 N8 N8 S8	39:53'54"E 0:06'06"E 0:27'55"W 39:32'05"W 0:27'55"E 0:00'32"E 39:53'54"W 9:53'54"W	35.76' 50.00' 39.59' 50.00' 39.49' 35.78' 40.00' 9.86'
L8 S0* L9 N89 L10 N0 L11 N90 L12 S0* L13 N90 L14 S89 L15 S0*	27'55"W 22'55"W 27'55"E 000'00"E 06'06"E 000'00"W 53'39"W 06'06"E 06'06"E	50.00' 50.00' 30.31' 49.42' 20.00' 49.42' 40.00' 9.84' 50.00'	L26 L27 L28 L29 L30 L31 L32 L33	S S N N S 8 S 8 S 8 S	39:53'54"E 0:06'06"E 0:27'55"W 9:32'05"W 0:27'55"E 0:00'32"E 9:53'54"W 9:53'54"W 60:28'26"E	35.76' 50.00' 39.59' 50.00' 39.49' 35.78' 40.00' 9.86' 16.90'
L8 S0* L9 N89 L10 N0 L11 N90 L12 S0° L13 N90 L14 S89 L15 S0° L16 S89 L17 N80	"27'55"W "32'05"W "27'55"E "00'00"E "06'06"E "00'00"W "53'39"W "06'06"E "53'54"W	50.00' 50.00' 30.31' 49.42' 20.00' 49.42' 40.00' 9.84' 50.00' 50.00'	L26 L27 L28 L29 L30 L31 L32 L33 L34 L35	S S N N S 8 S 5 S 8 S 5 S 8 S 5 S 8 S 5 S 8 S 8	39:53'54"E 0:06'06"E 0:27'55"W 9:32'05"W 0:27'55"E 0:00'32"E 9:53'54"W 9:53'54"W 9:53'54"W 50:28'26"E 90:00'00"E	35.76' 50.00' 39.59' 50.00' 39.49' 35.78' 40.00' 9.86' 16.90' 96.81' 109.85'

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE© UNLESS OTHERWISE NOTED. Imagery © 2016, CAPCOG, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Agency.

CPS ENERGY/CITY OF 1.THE CITY OF LYTLE AS PART SYSTEMS – CITY PUBLIC SERVI CASEMENTS AND RIGHTS-OF-W INFRASTRUCTURE AND SERVIC PLAT AS "ELECTRIC EASEMEN "OVERHANG EASEMENT," "UTILI EASEMENT," "WATER EASEM "RECYCLED WATER EASEM "RECYCLED WATER EASEM "CONSTRUCTING, RECONSTRU PATROLLING, AND ERECTING U FOR THE REASONS DESCRIBE SHALL ALSO HAVE THE RIGHT T FACILITIES WITHIN EASEMENT RIGHT OF INGRESS AND EGRE PURPOSE OF ACCESSING SUC THE RIGHT TO REMOVE FROM OTHER OBSTRUCTIONS WHIC EFFICIENCY OF WATER, SEWE SERVICE FACILITIES. NO BUILE WILL BE PLACED WITHIN EA AGREEMENT WITH THE RESPEC 2. ANY CPS ENERGY OR CITY O MODIFICATIONS REQUIRED OF C AND SERVICE FACILITIES, LOCA CHANGES OR GROUND ELEVATI PERSON OR PERSONS DEEMED GROUND ELEVATION ALTERATIC 3. THIS PLAT DOES NOT AMEI EXISTING ELECTRIC, GAS, WA

EASEMENTS OR ANY OTHER EAS SUCH EASEMENTS ARE DESCRIE 4. CONCRETE DRIVEWAY APPF TEN (10) FOOT WIDE ELECTRIC ONLY BY UNDERGROUND ELECT 5. ROOF OVERHANGS ARE ALLC ELECTRIC AND GAS EASEMENTS FACILITIES ARE PROPOSED OR E WIDE EASEMENTS. OPEN SPACE: LOT 502 BLK F IS DESIGNATED EASEMENT FOR THE CITY OF LY LYTLE AT THE TIME OF PLAT F OPEN SPACE AND AS A GAS, E LOT 505 BLK F, LOT 501 BLK M SPACE AND AS A DRAINAGE E DEDICATED TO THE HOMEOWNE

COMMON AREA MAINT THE MAINTENANCE OF OPEN SI OF THE CITY OF LYTLE OR ITS OPEN SPACE INCLUDING LOT 50 LOT 501 BLOCK N, DRAINAGE NATURE WITHIN THIS SUBDIV PROPERTY OWNER(S), OR T SUCCESSORS OR ASSIGNS AND OR ATASCOSA COUNTY. RESIDENTIAL FIRE FLOC THE PUBLIC WATER MAIN SYS FLOW DEMAND OF 1500 GPM AT LYTLE'S FIRE FLOW REQUIREM FIRE FLOW REQUIREMENTS FO PRIOR TO BUILDING PERMIT AP SET FORTH BY THE DIRECTOF FIRE MARSHAL. CITY OF LYTLE IMPACT WATER & SANITARY SEWER PLATTING FOR THIS SUBDIVISION OWNER/DEVELOPER PRIOR TO SEWER SERVICE CONNECTIONS CITY OF LYTLE DEDICA

 0
 THE OWNER/DEVELOPER DEDIC

 0'
 THE CITY OF LYTLE UPON

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 ACCEPTANCE BY THE CITY OF L

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 RESIDENTIAL FINISHED FLOOR

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 BUILDING SETBACK:

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 THIS PLAT IS SUBJECT TO THE D

 35'
 SECTION 42-205 OF THE CIT

90'00'00"E 96.81' 90'00'00"E 109.85' DEDICATION OF WATE THIS PLAT IS SUBJECT TO THE IS SECTION 42-205 OF THE CIT REQUIRES THE DEDICATION OF AQUIFER WATER ALLOTMENTS ACRE-FOOT PER LOT. SUBDIVISION NOTES: 1. THIS PLAT INCLUDES APPF DEDICATED TO THE CITY OF L STREET RIGHT-OF-WAYS ARE 50 2. IN ORDER TO PROMOTE CONDITIONS OF PUBLIC ROAD WITHIN THIS SUBDIVISION SH DEDICATED ROADWAY UNLESS CITY OF LYTLE OR ITS DESIGNA TRANSPORTATION FOR DRIVE DRIVEWAY SHALL BE DESIGNAT CITY OF LYTLE AND ATASC STANDARDS, AS APPLICABLE. 3. NO STRUCTURE IN THIS SUB TO A PUBLIC WATER SYSTEL DECLINING WATER SUPPLY, PF BY THE CITY OF LYTLE TO QUE AVAILABILITY. RAIN WATER CO

AVAILABILITY. HAIN WATER CI MAY OFFER THE BEST RENEV THIS SUBDIVISION SHALL BE SYSTEM OR TO AN ON-SITE V AND PERMITTED BY THE CITY C 4. NO STRUCTURE OR DEVELC FINAL APPROVAL OF THE PLA APPROVED PLAT BY THE COUN

LYTLE/UTILITY: OF ITS ELECTRIC, GAS, WATER, AND WASTEWATER ICE BOARD (CPS ENERGY) - IS HEREBY DEDICATED /AY FOR UTILITY, TRANSMISSION AND DISTRIBUTION	F SUBI
CE FACILITIES IN THE AREAS DESIGNATED ON THIS NT," "ANCHOR EASEMENT," "SERVICE EASEMENT," .ITY EASEMENT," "GAS EASEMENT," "TRANSFORMER IENT," "SANITARY SEWER EASEMENT" AND/OR	SADDLE
IENT" FOR THE PURPOSE OF INSTALLING, JCTING, MAINTAINING, REMOVING, INSPECTING, JTILITY INFRASTRUCTURE AND SERVICE FACILITIES	BEING A TOTAL OF 17.570
TO RELOCATE SAID INFRASTRUCTURE AND SERVICE AND RIGHT-OF-WAY AREAS, TOGETHER WITH THE ESS OVER GRANTOR'S ADJACENT LANDS FOR THE	RECORDED IN DOCUME RECORDS OF ATASCOSA SURVEY NO. 513, ABST
I NAID LANDS ALL TREES OR PARTS THEREOF, OR CH ENDANGER OR MAY INTERFERE WITH THE CR, GAS, AND/OR ELECTRIC INFRASTRUCTURE AND	COUNTY, TEXAS.
DINGS, STRUCTURES, CONCRETE SLABS, OR WALLS ASEMENT AREAS WITHOUT AN ENCROACHMENT DTIVE UTILITY. SELVILE MONETARY LOSS RESULTING EROM	
CPS ENERGY OR CITY OF LYTLE INFRASTRUCTURE ITED WITHIN SAID EASEMENTS, DUE TO GRADE ION ALTERATIONS SHALL BE CHARGED TO THE	2000 NW LOOP 410
NESPONSIBLE FOR SAID GRADE CHANGES OR ONS. ND, ALTER, RELEASE OR OTHERWISE AFFECT ANY ATER, SEWER, DRAINAGE, TELEPHONE, CABLE TV	DATE OF PRI
ASEMENTS FOR UTILITIES UNLESS THE CHANGES TO IBED HEREON. IROACHES ARE ALLOWED WITHIN THE FIVE (5) AND C. AND GAS FASEMENTS WHEN LOTS ARE SERVED	STATE OF ARKANSAS COUNTY OF WASHINGTON
TRIC AND GAS FACILITIES. OWED WITHIN THE FIVE (5) AND TEN (10) FOOT WIDE IS WHEN ONLY UNDERGROUND ELECTRIC AND GAS	OWNER OF LAND SHOWN HERETO, AND IN PERSON OF
EXISTING WITHIN THOSE FIVE (5) AND TEN (10) FOOT	TO THE CITY, FOR THE US PARKS, WATER COURSES, I LINES IN ALL OF THE AFORE THEREON SHOWN FOR THE F
D AS OPEN SPACE AND INGRESS/EGRESS ACCESS YTLE. THIS LOT WILL BE DEDICATED TO THE CITY OF RECORDATION. LOT 501 BLK L IS DESIGNATED AS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT.	OWNER/DEVELOPER: SCOT
M AND LOT 501 BLK N ARE DESIGNATED AS OPEN EASEMENT. THESE OPEN SPACE LOTS ARE TO BE ER'S ASSOCIATION AT THE TIME OF RECORDATION.	SAN 4 4058 FAYE (479)
ENANCE: PACE LOT 502 BLK F SHALL BE THE RESPONSIBILITY SUCCESSORS OR ASSIGNS, THE MAINTENANCE OF REPLOCE LOT FOR RECOVER LOT FOR DECIDENCE OF	STATE OF ARKANSAS COUNTY OF WASHINGTON
E EASEMENTS AND EASEMENTS OF ANY OTHER VISION SHALL BE THE RESPONSIBILITY OF THE 'HE PROPERTY OWNER'S ASSOCIATION, OR ITS	BEFORE ME, THE UNDERSIG SCOTT A. PETERS SUBSCRIBED TO THE FORE
d not the responsibility of the city of lytle	THAT HE EXECUTED THE THEREIN EXPRESSED AND IN HAND AND SEAL OF OFFICE A.D. 20
STEM HAS BEEN DESIGNED FOR A MINIMUM FIRE [25 PSI RESIDUAL PRESSURE TO MEET THE CITY OF IENTS FOR THE RESIDENTIAL DEVELOPMENT. THE OR INDIVIDUAL STRUCTURES WILL BE REVIEWED	
PPROVAL IN ACCORDANCE WITH THE PROCEDURES R OF PUBLIC WORKS AND THE FIRE DEPARTMENT	
T FEES: IMPACT FEES WERE NOT PAID AT THE TIME OF ON PLAT. ALL IMPACT FEES MUST BE PAID BY THE D. WATER METERS REING SET AND/OR SANITARY	CERTIFICATE OF APPROVAL
S. S. ATION:	THE CITY ENGINEER OF THE SUBDIVISION PLAT CONFOR RECUMATIONS OF THE CITY A
COMPLETION BY THE OWNER/DEVELOPER AND _YTLE. D EL OOR:	
R ELEVATIONS MUST BE A MINIMUM OF EIGHT (8) IT GRADE.	THIS PLAT OF <u>SADDLE RIDGE</u> CONSIDERED BY THE CITY CO
ENFORCED ON THIS SUBDIVISION PLAT PER CITY TYPICAL LOT LAYOUT DETAIL.	APPROVED BY SUCH COUNCI
HIS PROPERTY AT THE TIME OF PLATTING IS R-1 STRICT. NO ZONING CHANGE IS BEING PROPOSED	BY:
E LIMITS OF THIS PLAT WAS FORMALLY ANNEXED JARY 24, 2024.	BY:
RIGHTS: DEDICATION OF WATER RIGHTS AS REQUIRED UNDER Y OF LYTLE CODE OF ORDINANCES, THIS CODE	COUNTY OF ATASCOSA
F PERMANENT UNCONTESTED PERMITTED EDWARDS BY THE OWNER/DEVELOPER AT A RATE OF 1/3 OF AN	CERTIFY THAT THE FOREGO OF AUTHENTICATION WAS F OF, A.D. 20 A.D. 20
ROXIMATELY 3,165 LF OF STREET THAT WILL BE LYTLE UPON COMPLETION AND ACCEPTANCE. ALL	OF SAID COUNTY, IN BOOK W TESTIMONY WHEREOF, WITNE DAY OF
SAFE USE OF ROADWAYS AND PRESERVE THE WAYS, NO DRIVEWAY CONSTRUCTED ON ANY LOT HALL BE PERMITTED ACCESS ONTO A PUBLICLY	
A DRIVEWAY PERMIT HAS BEEN APPROVED BY THE ATED REPRESENTATIVE, OR TEXAS DEPARTMENT OF WAYS ENTERING ONTO STATE ROADS, AND THE	BY:
IED AND CONSTRUCTED IN ACCORDANCE WITH THE COSA COUNTY ROAD STANDARDS OR TX DOT BDIVISION SHALL BE OCCUPIED UNTIL CONNECTED	
M OR AN INDIVIDUAL WATER SYSTEM. DUE TO ROSPECTIVE PROPERTY OWNERS ARE CAUTIONED ESTION THE SELLER CONCERNING GROUND WATER	
DLLECTION IS ENCOURAGED AND IN SOME AREAS VABLE WATER RESOURCE; AND NO STRUCTURE IN DCCUPIED UNTIL CONNECTED TO A PUBLIC SEWER VASTEWATER SYSTEM THAT HAS BEEN APPROVED	
DF LYTLE. DPMENT WITHIN THE SUBDIVISION MAY BEGIN UNTIL T BY ATASCOSA COUNTY AND RECORDING OF THE	

SHEET 2 OF 2

PRELIMINARY BDIVISION PLAT OF E RIDGE ESTATES DHASE 3 570 ACRES OUT OF A 27.635 ACRE TRACT OF LAND MENT NUMBER 217149 OF THE OFFICIAL PUBLIC DSA COUNTY, TEXAS, OUT OF THE BAUMGARTNER BSTRACT 87, IN THE CITY OF LYTLE, ATASCOSA	ODLE RIDGE ESTATES PHASE 3	NO. REVISION NO. REVISION DATE DATE DATE
ATU I SAN ANTONIO, TX 78213 I 210.375.9000 NG FIRM #470 I TEXAS SURVEYING FIRM #10028800 PREPARATION: September 23, 2024 NON THIS PLAT, AND WHOSE NAME IS SUBSCRIBED I OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES USE OF THE PUBLIC FOREVER, ALL STREETS, ALLEYS, S, DRAINS, EASEMENTS, AND THE WATER AND SEWER PRESAID PUBLIC PLACES AND ALL OTHER PUBLIC PLACES TOTT A. PETERS N ANTONIO LD, LLC 58 N COLLEGE AVE, STE 300, BOX 9 YETTEVILLE, ARKANSAS 72703 79 455-9090 N SIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED NOWN TO ME TO BE THE PERSON WHOSE NAME IS DEGOING INSTRUMENT, AND ACKNOWLEDGED TO ME TOTAN PETERS NAME FOR THE PURPOSES AND CONSIDERATIONS DIN THE CAPACITY THEREIN STATED. GIVEN UNDER MY DET HIS DAY OF	Civil Job No. 11100-26 SAI	THE PROFILE AND
HE CITY OF LYTLE, TEXAS HEREBY CERTIFIES THAT THIS ORMS TO ALL REQUIREMENTS OF THE SUBDIVISION Y AS TO WHICH HIS APPROVAL IS REQUIRED. 	The Fact Joint of Form	SADDLE RIDGE ESTATES PHASE 3 LYTLE, TEXAS PLAT
		PLAT NO JOB NO DATE FEBRUARY 2024 DESIGNER CHECKED CHECKED DRAWN SHEET SHEET



- -16**'-**

josie.campa@lytletx.org

LE	GEND	ATE	
MDP PHAS	BOUNDARY		
EXIST EXIST	NG CONTOUR		
	OF LYTLE LIMITS (APPROX.)	z	
OFFIC	AL PUBLIC RECORDS OF ATASCOSA, COUNTY O.P.R. BACK LINE S.B.	REVISIO	
R–1 PLAT	SINGLE FAMILY RESIDENTIAL DISTRICT SFRD NOT RECORDED AT TIME OF MDP (NR)	NO.	
ROAE	SECTION TRANSITION (COLLECTOR TO MINOR)	ATE	
· / / /	KEYNOTE LEGEND		
	(1) MICHAEL R. ABBE AN UNDIVIDED ONE SIXTH (%) INTEREST IN AND TO THAT CERTAIN 59.5 ACRE TRACT OF LAND		
	(VOL. 24, PGS. 130–133 O.P.R.) MICHAEL R. ABBE AN UNDIVIDED ONE SIXTH (‰) INTEREST IN AND	Z	
	TO THAT CERTAIN 59.5 ACRÉ TRACT OF LAND (VOL. 856, PGS. 284–286 O.P.R.) LAURA J. ARBE	REVISIO	
	AN UNDIVIDED ONE SIXTH (‰) INTEREST IN AND TO THAT CERTAIN 59.5 ACRE TRACT OF LAND (VOL. 24, PGS. 134–137 O.P.R.)	NO.	
	LAURA J. ABBE AN UNDIVIDED ONE SIXTH (%) INTEREST IN AND TO THAT CERTAIN 59.5 ACRE TRACT OF LAND		
	ALAN G. ABBE, II AN UNDIVIDED ONE SIXTH (k_0) INTEREST IN AND		
SCHWAN'S SALES TERPRISES, INC.	(VOL. 24, PGS. 126–129 O.P.R.) ALAN G. ABBE, II		
.26 ACRE TRACT 386, PGS. -163 D.R.)	TO THAT CERTAIN 59.5 ACRE TRACT OF LAND (VOL. 856, PGS. 287–289 O.P.R.)		
	SADDLE RIDGE ESTATES, COMMERCIAL (DOC NO. 201600013, O.P.R.)		
/	EASEMENT TO BE DEDICATED AS FUTURE RIGHT-OF-WAY (DOC. NO. 201600013, O.P.R.)	r	
WAREHO BUILDIN	(DOC. NO. 201600013, O.P.R.) G G S (DOC. NO. 201600013, O.P.R.) G (DOC. NO. 100800, O.P.R.)	Z	DALLAS 75.9000 10028800
Į.	 EX. VARIABLE WDTH PUBLIC UTILITY EASEMENT (DOC. NO. 125005, O.P.R.) 	S	/0RTH 3 210.3 FRATION #
	EX. VARIABLE WIDTH DRAINAGE EASEMENT (DOC. NO. 216134, O.P.R.)	AN ER	FORT W TX 7821: 3M REGIST
	 PROF. TO ONSITE PRIVATE DIAMAGE EASEMENT TO BE PLATTED WITH PHASE 5 & 6 PROP. 10' ONSITE PRIVATE DRAINAGE EASEMENT TO BE PLATTED WITH PHASE 3 		USTON I NTONIO, TBPLS FII
TAUSCH PROPERTIES LLC 6 240 ACR	3) PROP. 10' ONSITE SANITARY SEWER EASEMENT TO BE PLATTED WITH PHASE 3		TIN I HC I SAN AI DN #470 I
(DOCUMEN NO. 16493	PROP. 10' ONSITE SANITARY SEWER EASEMENT TO BE PLATTED WITH PHASE 4	E P	0 I AUS [.] 0P 410 GISTRATIC
- 708	701/11/0		J ANTONI 0 NW LC E FIRM RE
「 1」へ、	EXISTING R-1 SINGLE FAMILY DWELLING DISTRICT PROPOSED R-1 SINGLE FAMILY DWELLING DISTRICT		SAN 200 TBP
_			
106	WATER DISTRIBUTION: CITY OF LYTLE GAS & ELECTRIC: CPS ENERGY INTERNET/TELE./CA.TV: COMMZOOM & SPECTRUM		
	A 87.920 ACRE TRACT OF LAND OUT OF THAT 102.56 ACRE		
BROKEN BAR PROPERTIES	TRACT DESCRIBED IN DOCUMENT NUMBER 174207 OF THE OFFICIAL PUBLIC RECORDS OF ATASCOSA COUNTY, TEXAS, OUT OF THE BAUMGARTNER SURVEY 513, ABSTRACT 87 OF THE CITY OF LYTLE, ATASCOSA COUNTY, TEXAS.		
II, LLC 2.092 ACRE TRACT (DOCUMENT	REVISION HISTORY		
NO. 107108 0.P.R.)	MDP NO. ENGINEER/ PREPARATION APPROVED DESIGNER DATE DATE DATE		
	2021-01 PAPE-DAWSON ENGINEERS, INC. 07/29/2021 08/09/2021		
MARSHALL D WITTER 5.00 ACRF	REVISION STATEMENT: THIS MDP REVISES THE PREVIOUSLY APPROVED MDP PREPARED BY BGE, INC. AND APPROVED BY THE CITY OF LYTLE ON APPRIL 8 2019 THE REVISIONS INCLUDE THE FOLLOWING:	S	
TRACT (DOCUMENT NO. 181801	 ADDED MDP REVISION CHART AND REVISION NOTES. REVISED TOTAL LOT COUNT FROM 375 TO 392. REVISED 59 TOTAL LOTS IN PHASE 2 3 4 4 5 TO 	I I	AN
0.F.IX.)	INCLUDE A MIN. DEPTH OF 110-FT AND MIN. WIDTH OF 55-FT. 4. REVISED PHASE BOUNDARIES FOR PHASE 3 & 4. 5. REVISED THE MOR SUMMARY TABLE WITH ACREACE	T/	Т РI
	DENSITIES, LOT COUNTS, RECORDATION INFO. AND PHASE SEQUENCE. 6. UPDATED THE EXISTING CONTOURS AND LABELS. 7. ADDED SIGNATURE BLOCKS FOR THE CITY MAYOR CITY	ЧS	MEN-0-12
	ENGINEER, DEVELOPER/OWNER, AND CIVIL ENGINEER. 8. ADDED ADJACENT PROPERTY OWNER INFORMATION, EXISTING EASEMENTS, STRUCTURES/BUILDINGS ETC. 9. DEVINCED DETENTION DEVINES FORM DIAGE 4. 6. 5.	С Ш Ш	-OPI
JOE T.	 ADDED DRAINAGE ASSEMENT ON PHASE 5 & 6 AND CROSS SECTION DETAIL. REVISED ROW CONFIGURATION AND ADDED KNUCKLE-SACS 		
KAUFMAN EMELINE E KAUFMAN 5.00 ACRE	12. REVISED LOT NUMBERS AND ADDED LOT SIZE SUMMARY CHART. 13. MDP NUMBER ADDED FOR REFERENCE.		ADP
TRACT (VOL. 250 PG. 605 D.R.)	 UPDATED THE DETAIL/NOTES FOR THE TYPICAL LOT LAYOUT. ADDED KEYNOTE LEGEND, ZONING, UTILITY PURVEYORS AND LOCATION MAP. 		STEI ()
	16. UPDATED, ADDED, RE-ORGANIZED & REFORMATTED THE PLAN SHEET LAYOUT, LEGEND, NOTES, DETAILS, CHARTS, FONT, LABELS ETC.	DI	MA
		S,	
~ -703			
``、 7 }			
	ACKNOWLEDGED BY:		
OWNER/DEVE	LOPER DATE CIVIL ENGINEER/DESIGNER DATE		
ATTN: JUSTI 4058 N. COL FAYETTEVILLI (479) 455–9	N COX, VP OF LAND – TEXAS LEGE AVE. SUITE 300, BOX 9 ARKANSAS 72703 090 ARKANSAS 72703 ATTN: JIM WELCH, P.E., VICE PRESIDENT 2000 NW LOOP 410 SAN ANTONIO, TEXAS 78213 (210) 375–9000		
justin.cox@rc	h.com jwelch@pape-dawson.com APPROVED BY:	-	
		MDP NO JOB NO1	2021-01
CITY OF LY ATTN: JOSIE 14916 MAIN	LE DATE <u>CITY OF LYTLE</u> DATE CAMPA, CITY SECRETARY TRC COMPANIES, INC. ST. ATTN: JFFF DAHM P.F. CITY ENGINEER	DATE AUG	CR
LYTLE, TEXA (210) 897-	S 78052 505 E. HUNTLAND DR., SUITE 250 AUSTIN, TEXAS 78752	JUILONED JA	

SADDLE RIDGE ESTATES PHASE 3 Pape-Dawson Lytle, texas Image: State in the state	NO. REVISION DATE			
SADDLE RIDGE ESTATES PHASE 3 LYTLE, TEXAS MASTER DEVELOPMENT PLAN	- PAPE-DAWSON	ENGINEERS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800	
	SADDLE RIDGE ESTATES PHASE 3	LYTLE, TEXAS	MASTER DEVELOPMENT PLAN	

OPMENT 2021-01)

1 OF 1

(979) 324-9999 JDahm@trccompanies.com



					OVERLA	ND FLOW	SHAL	LOW	CHANNEL F	LOW (6 FPS)			INTE	NSITY			FLO	OW	·	REFERENCE	
POINT*	STRUCTURE	WATERSHED*	TOTAL AREA (ACRES)	COMPOSITE C VALUE	LENGTH	TRAVEL TIME	LENGTH	TRAVEL TIME	LENGTH	TRAVEL TIME	TIME OF CONCENTRATION	I ₂	I ₁₀	I ₂₅	I ₁₀₀	Q ₂	Q ₁₀	Q ₂₅	Q ₁₀₀	BY-PASS FLOW	POINT
					FEET	MINUTES	FEET	MINUTES	FEET	MINUTES	MINUTES	IN/HR	IN/HR	IN/HR	IN/HR	CFS	CFS	CFS	CFS	CALC'S	
10		11	3.94	0.67	136	14	588	4	0	0	18	3.91	5.53	6.57	8.17	10.31	14.59	17.35	21.57	NO	10
		J1	4.65	0.67	101	11	586	4	0	0	15	4.26	6.03	7.18	8.92	13.28	18.80	22.36	27.80	NO	
11		I1+J1	8.59	0.67	0.67 HYDROLOGIC CALCULATIONS SEE STORMWATER MANAGEMENT REPORT FOR SADDLE RIDGE ESTATES PHASE 3								21.87	30.96	36.81	45.77	NO	11			
		К1	1.52	0.67	129	13	233	2	0	0	15	4.26	6.03	7.17	8.92	4.34	6.14	7.30	9.08	NO	
12	DRAIN A	I1+J1+K1	10.11	0.67		HYDRC	DLOGIC CALC	ULATIONS SE	E STORMWA	TER MANAGE	MENT REPORT FOR	SADDLE RID	GE ESTATES P	HASE 3	-	26.21	37.10	44.12	54.86	NO	12
13	DRAIN B	L1	5.16	0.67	137	14	257	2	0	0	16	4.14	5.85			14.30	20.23	24.06	29.92	NO	13
14	DRAIN B	M1	4.80	0.67	173	17	309	3	0	0	20	3.71	5.24	6.23	7.75	11.92	16.86	20.05	24.93	NO	14
15		L1+M1	9.96	0.67	0.67 HYDROLOGIC CALCULATIONS SEE STORMWATER MANAGEMENT REPORT FOR SADDLE RIDGE ESTATES PHASE 3							23.83	33.72	40.10	49.86	NO	15				
16	DRAIN B	N1	4.90	0.67	166	16	308	3	0	0	19	3.80	5.38	6.40	7.95	12.48	17.66	21.00	26.11	NO	16
17		L1+M1+N1	14.86	0.67		HYDRC	DLOGIC CALC	ULATIONS SE	E STORMWA	TER MANAGE	MENT REPORT FOR	SADDLE RID	GE ESTATES P	HASE 3		35.42	50.12	59.59	74.10	NO	17
	DRAIN B	01	4.16	0.67	126	13	1364	12	0	0	25	3.29	4.66	5.55	6.90	9.17	13.00	15.46	19.23	NO	
	DRAIN B	P1	4.31	0.67	99	11	1082	11	0	0	22	3.53	4.99	5.94	7.38	10.18	14.41	17.14	21.31	NO	
18	DRAIN B	O1+P1	8.47	0.67	0.67 HYDROLOGIC CALCULATIONS SEE STORMWATER MANAGEMENT REPORT FOR SADDLE RIDGE ESTATES PHASE 3									18.25	25.85	30.74	38.24	NO	18		
19		L1+M1+N1+O1+P1	23.33	0.67		HYDRC	DLOGIC CALC	ULATIONS SE	E STORMWA	FER MANAGE	MENT REPORT FOR	SADDLE RID	GE ESTATES P	HASE 3		51.19	72.45	86.14	107.12	NO	19
		Q1	2.44	0.67	91	10	0	0	0	0	10	5.05	7.20	8.57	10.67	8.26	11.77	14.01	17.44	NO	
20	FUTURE LTYLE FARMS	R1	4.44	0.50	168	16	853	6	0	0	22	4.73	6.69	7.95	9.89	10.49	14.85	17.65	21.96	NO	20
21	FUTURE LTYLE FARMS	S1	9.82	0.67	245	20	844	6	0	0	26	3.22	4.57	5.43	6.76	21.19	30.04	35.73	44.46	NO	21
22	FUTURE LTYLE FARMS	T1	3.45	0.67	141	14	456	3	0	0	17	4.01	5.68	6.76	8.41	9.28	13.14	15.62	19.43	NO	22
	FUTURE LTYLE FARMS	U1	4.04	0.57	300	20	98	2	0	0	22	3.52	4.99	5.94	7.38	8.11	11.49	13.67	17.00	NO	
23	FUTURE LYTLE FARMS	I1+J1+K1+R1+S1+T1+U1	31.86	0.67	0.67 HYDROLOGIC CALCULATIONS SEE STORMWATER MANAGEMENT REPORT FOR SADDLE RIDGE ESTATES PHASE 3								63.04	89.26	106.14	132.01	NO	23			
24	FUTURE BASIN**	I1+J1+K1+R1+S1+T1+U1	31.86	0.65		HYDRC	DLOGIC CALC	ULATIONS SE	E STORMWA	TER MANAGE	MENT REPORT FOR	SADDLE RID	GE ESTATES P	HASE 3		13.62	21.82	27.48	33.32	NO	24
		V1	21.55	0.55	300	20	1813	19	542	2	41	2.46	3.53	4.20	5.24	29.20	41.79	49.76	62.08	NO	
25	DRAIN B	I1+J1+K1+L1+M1+N1+O1+	76.74	0.67		HYDRC	DLOGIC CALC	ULATIONS SE	E STORMWA	TER MANAGE	MENT REPORT FOR	SADDLE RID	GE ESTATES P	HASE 3		71.79	103.65	124.43	156.74	NO	25

(*) REFERENCE SADDLE RIDGE ESTATES PHASE 2 & 5 FOR HYDROLOGY CALCULATION POINTS 1-9 AND WATERSHEDS A1-H1.





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te: Feb 29, 2024, 1:39pm User ID: crodriguez e: P:\111\00\26\Design\Civil\SDA1--1110026.dwg



te: May 28, 2024, 4:49pm User ID: crodriguez 2: P:\111\00\26\Design\Civil\SDA2-1110026.dwg

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN 3 ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. CAUTION!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ⁵ ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON 7

DRAINAGE & GRADING NOTES:

- UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF LYTLE WILL ACCEPT.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.
- THE MAINTENANCE OF ALL PRIVATE DRAINS WILL BE THE RESPONSIBILITY OF THE HOMEOWNERS ASSOCIATION FOR SADDLE RIDGE ESTATES.







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SADDLE RIDGE ESTATES PHASE 3	LYTLE, TEXAS	DRAINAGE DETAILS (BOX CULVERTS)
PLAT NO JOB NO DATE DESIGNE CHECKF	0 NOVE 	- 11100–26 MBER 2023 CB DRAWN C
SHEET	С	1.13

Curlex[®] Blankets **Excelsior Erosion Control Blankets**

American Excelsior Company is the inventor of biodegradable erosion control blankets. Developed in the early 60's, Curlex excelsior blankets are specifically designed to actually promote ideal growing conditions for grass seed, while simultaneously protecting topsoil from wind and water erosion. Curlex excelsior blankets have long passed the test of time. By design, Curlex blankets have a built-in swell factor - wet curled excelsior fibers sightly expand in thickness and interlock to form a strong, fiber matrix. This allows the fibers to provide intimate contact with local terrain. Water flow is trained to follow the curled fiber matrix. The roughness of the curled excelsior matrix slows the velocity to a point where gravity takes over, which allows moisture to slowly seep into the topsoil to promote ideal

growing conditions.

Curlex blankets consist of unique softly barbed, interlocking, curled, Aspen excelsior fibers. They are weed seed free. Curlex blankets are available with a variety of environmentally sensitive and/or stronger netting types to match job site requirements. We offer a green color-coded plastic netting for applications requiring UV resistance strength and longevity. Our photodegradable QuickMow[™] netting is recommended for urban, golf course, and certain roadside projects. It is color-coded white to identify it as a rapid break-down, polypropylene netting designed for use in areas to be mowed. Also available is our FibreNet[™] - 100% biodegradable netting - for use in critical environmentally sensitive areas.

Most straight-line fiber blankets draw the line at 270 g/m² (.50 lb/yd²), but not Curlex. At just under 400 g/m² (.75 lb/yd²) Curlex blankets bring 50% more erosion control fibers to your job site. Curlex blankets are available in natural Aspen or QuickGRASS[®] (green). Combine that with a roll that's wider than conventional blankets and you have today's most effective and efficient, multi-purpose degradable erosion control blanket. Curlex excelsior blankets are available individually wrapped or in master packs to allow for mechanical unloading and stacking.

FERFORMANCE	CAPADILITIES
Product	Slopes

roduct	Slopes	Shear Stress Rating
Curlex I	2H:1V & flatter	84 Pa (1.75 lb/ft²)
Curlex II	1.5H:1V & flatter	108 Pa (2.25 lb/ft ²)

Typical Applications

- Highway embankments, ditch bottoms and slopes, bridges, approaches and medians
- Residential, commercial, & industrial developments
- Urban drainage, stream banks, and waterways
- Golf course fairways, roughs, waterways, & drop structures • Landfill caps, side slopes, and let down structures
- Pipeline right-of-ways

Earth Science Division Arlington, Texas (800) 777-SOIL • www.curlex.com

NOTES:

SOIL RETENTION BLANKET TO BE INSTALLED ALONG INVERT AND SIDE SLOPES OF CHANNEL. SIDE SLOPES TO BE PROTECTED TO A HEIGHT OF 2'. SOIL RETENTION BLANKET TO HAVE THE FOLLOWING CHARACTERISTICS AS A MINIMUM:

• FOR USE ON 3:1 SIDE SLOPES • FOR USE WITH VELOCITIES > 6 FPS

Curlex[®] Blankets

Excelsior Erosion Control Blankets

SUGGESTED SPECIFICATIONS

Curlex Single Net (Curlex I)

A specific cut of Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It shall be of consistent thickness, with fibers evenly distributed throughout the entire area of the blanket. The top of each blanket shall be covered with photodegradable or biodegradable netting. Material shall not contain any weed seed or chemical additives.

Specifications

Color:

Recommended Use: Slopes to 2:1, Channel to 7 ft/s, shear stress to 1.75 lb/ft² 4' x 112.5' (50 yd²), 8' x 112.5' (100 yd²), 16' x 112.5' (200 yd²) Roll Sizes: .73 lb/yd² Standard Weight*: Green, QuickMow White (90 day), FibreNet Netting Options: Natural Aspen or QuickGRASS Green

Curlex Double Net (Curlex II)

A specific cut of Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It shall be of consistent thickness, with fibers evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket shall be covered with photodegradable or biodegradable netting. Material shall not contain any weed seed or chemical additives.

Specifications

Recommended Use: Slopes to 1.5:1, Channels to 9 ft/s, shear stress to 2.25 lb/ft 4' x 112.5' (50 yd²), 8' x 112.5' (100 yd²), 16' x 112.5' (200 yd²) Roll Sizes: Standard Weight*: $.73 \, \text{lb/yd}^2$ Netting Options: Green, QuickMow White (90 day), FibreNet Natural Aspen or QuickGRASS Green Color:

*Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen Excelsior is 22%. Installation

Before installing Curlex blankets, the seedbed shall be inspected by the Owner's Representative to ensure it has been properly compacted and fine graded to remove any existing rills. It shall be free of obstructions, such as tree roots, projections such as stones, and other foreign objects. Grass seed shall match soil conditions to allow for maximum germination, dense vegetation, and a structural root system. Contractor shall proceed when satisfactory conditions are present. After the area has been properly shaped, seeded, fertilized, and compacted, locate the start of the roll, making sure the roll is facing toward the area to be covered, and then roll out the blanket. Blankets shall be rolled out flat, even, and smooth without stretching the material then anchored to the subgrade.

Slopes: It is recommended that the blankets be installed in the same direction as the water flow; however, on short slopes it may be more practical to install horizontally across the width of the application. If more than one width is required, simply abut the edges together and secure the blankets with a common row of biodegradable staples, steel staples, or stakes. Overlapping of Curlex excelsior blankets is not required or recommended. An exception is waterway slopes.

Channels: Curlex blankets shall be centered to offset a seam in the middle of the waterway. They shall be installed in the same direction as the water flow. The adjoining blankets shall be installed away from the center of channel and concentrated water flow. They shall be secured by a common row of staples. It is usually not necessary to overlap Curlex blankets; however, a 2" shingle type installation shall be used in waterway slopes applications. Curlex blanket installation should continue up the side slopes 3' above the anticipated high water elevation. Flanks exposed to runoff, or sheet flow, must be protected by a check slot or trenched. Curlex blankets shall be trenched at the start of the channel and anchored using a staggered staple pattern at end of roll overlaps and end of roll terminations.

Disclaimer: Curlex is a system for erosion control and re-vegetation on slopes and channels. American Excelsior Company (AEC) believes that the information contained herein to be reliable and accurate for use in erosion control and re-vegetation applications. However, since physical conditions vary from job site to job site and even within a given job site, AEC makes no performance guarantees and assumes no obligation or liability for the reliability or accuracy of information contained herein for the results, safety, or suitability of using Curlex, or for damages occurring in connection with the installation of any erosion control product whether or not made by AEC or its affiliates, except as separately and specifically made in writing by AEC. These specifications are subject to change without notice.

If you would like to receive more information or consult with one of our Customer Care Center Specialists, please call us toll free at (888-352-9582) PDF download specifications available in the Technical Support Library at www.curlex.com Form#235/092013E

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JOHN WAYNE ROAD STA. 42+16.96 TO END

VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50'

	A: 43+77.45	TA: 43+94.91 FV: 696 20		RT. HIGH F RT. HIGH RT. PVI RT. PVI RT. 7 RT. 7	PT STA = $44+93.5$ PT ELEV = 696.86 STA = $45+02.86$ ELEV = 696.98 A.D. = -2.24 . K = 22.30	1 RT. LOW F RT. LOW RT. PVI RT. PV RT. PV RT. RT.	PT STA = 46+14 PT ELEV = 695. STA = 46+13.0 1 ELEV = 695.30 A.D. = 2.95 . K = 42.33	.94 76 1		[A: 47+44.91 EV: 697.19	A. 47+77.07	DVE EXISTING ICADE POSTS		700
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	PAVEMENT SECTION DETAIL									
STREET NAME	STATION	TYPE "D" HMAC	FLEXIBLE BASE	LIME STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER			
KROEGER AVENUE	20+11.16 TO 30+87.18	2"	8"	6"	NO	4.00	2.0			
MUSTANG PASS	30+87.18 TO END	2"	8"	6"	NO	4.00	2.0			
JOHN WAYNE ROAD	42+16.96 TO 47+77.07	2"	8"	6"	NO	4.00	2.0			
WILD COLT WAY	0+90.00 TO END	2"	8"	6"	NO	4.00	2.0			
CARTER LANE	0+90.00 TO END	2"	8"	6"	NO	4.00	2.0			
WINDMILL AVENUE	0+90.00 TO END	2"	8"	6"	NO	4.00	2.0			

GENERAL NOTES:

- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY BURGE ENGINEERING & ASSOCIATES, INC. DATED MAY 30, 2018.
- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIME STABILIZATION IS REQUIRED.
- GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- 4. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
- IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED
- WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2-FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOISTURE CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
- 9. FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2 AND A PI WITHIN RANGE OF 5 AND 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME OR CEMENT APPLICATION RATES SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO VERIFY EXACT SPECIFICATIONS WITH PROJECT GEOTECHNICAL ENGINEERING REPORT.

SUBGRADE NOTES:

- 1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE STABILIZATION IS NEEDED.
- IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS. SUBGRADE STABILIZATION IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEX114E)).
- 3. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER FOR THE LIME APPLICATION RATE IF LIME STABILIZATION IS REQUIRED.
- 4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
- APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

6. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

LIME STABILIZATION NOTES:

FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD: AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.

AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE ⅔ INCH SIEVE FROM THE SAMPLE): MINIMUM PASSING 1⅔ SIEVE 100

85

60

- MINIMUM PASSING ³/₄" SIEVE • MINIMUM PASSING NO. 4 SIEVE
- 3. SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY. MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEXAR COUNTY FLEXIBLE PAVEMENT DESIGN CRITERIA GUIDE FOR MIXTURE DESIGN.
- 4. COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED).
- 5. CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS).

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6. VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.

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Α	В	С	D	E	F	G	Н	J	K	L	M	N
VAR	6*	.375	1.5	3CV-3W	2CV-3W	2.5	1.5	2.25	.75	1.25	1.75	2.2
VAR	8	.375	2	4CV-3W	3CV-3W	3	2.25	3	1	1.75	2.25	2.7
VAR	12	.5	3	6CV-3W	4CV-3W	5	3	4.5	1.5	2.75	3.25	4.7
VAR	18	.5	5	8CV-3W	6CV-3W	7	4.5	6	1.5	5	5	7
* For bi	cycle use											

NOTES:

- 1. Street name signs for signalized intersections mounted on mast arms or span wires.
- 2. Border can be eliminated and spacing can be adjusted when there is a conflict with
- descenders and ascenders. See special arrow designed for D1-1.
- 4. Supplementary lettering is optional.
- 5. 12" letter height and CV-3W letter are considered the desirable minimum.

a) 10" letter height may be used when space limitations restrict overall size of sign b) 8" letter height and CV-2W should be limited only to dual street names at intersection (**REFERENCE TXDOT 2012 STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS - REVISION 3)

SIGNAGE DETAIL

NOT-TO-SCALE

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NOT-TO-SCALE

WATER NOTES

- 1. CHLORINATION SHALL BE COMPLETED WITH HTH. PRESSURE TESTING WILL FOLLOW THE SAWS CRITERIA (150 PSI FOR 4 HOURS). THE CITY OF LYTLE MUST BE PRESENT DURING THE PRESSURE TEST AND RECEIVE A COPY OF THE BACTERIOLOGICAL TEST. CONTACT THE CITY OF LYTLE PUBLIC WORKS DEPARTMENT AT 830.709.3692
- 2. ALL 8" AND 12" PIPE SHALL BE A MINIMUM OF P.V.C. C-900 CLASS 200 DR 21. IF AVAILABLE AND IF IN PRESSURE ZONE 8 OR BELOW, THE CONTRACTOR MAY USE C-900 CLASS 150 DR 27.5 AS AN ALTERNATIVE.
- 3. ALL 16" AND GREATER PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- 4. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
- 5. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
- 7. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
- 9. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED TWO FEET FROM ROW (PROPERTY LINE) TO CENTER OF THE METER BOX.
- 10. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- 11. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE CITY OF LYTLE RELEASES THE MAIN FOR TIE-IN AND USE.
- 12. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
- 13. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
- 14. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- 15. SINGLE SERVICES SHALL BE $\frac{3}{4}$ " WITH $\frac{5}{8}$ " METER. DUAL SERVICES SHALL BE 1" SERVICE TO A TEE WHERE A $\frac{3}{4}$ " WILL CONTINUE TO A $\frac{5}{8}$ " METER.

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CAUTION !!!

EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH OF PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

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	CITY OF LYTLE CONSTRUCTION NOTES (LAST REVISED JULY 2017)	
	CITY OF LYTLE GENERAL SECTION	CITY OF LYTLE SEWER NOT
	 ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE CITY OF LYTLE AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE: 	1. THE CONTRACTOR IS RESPONSIBLE FOR OVERFLOW (SSO) OCCURS AS A RESUL PERSONNEL RESPONSIBLE FOR SSO PI TRAINED ON PROPER RESPONSE. SHOUL SHALL:
	 A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) 'DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE". C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION". D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". E.CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM). 	 A. IDENTIFY THE SOURCE OF THE SS PUBLIC WORKS DIRECTOR IMMEDIATE THE ADDRESS OF THE SPILL AND A B.ATTEMPT TO ELIMINATE THE SOURCI C.CONTAIN SEWAGE FROM THE SSO T POSSIBLE CONTAMINATION OF WATE D.CLEAN UP SPILL SITE (RETURN CON SYSTEM IF POSSIBLE) AND PROPERI SOIL/MATERIALS. E.CLEAN THE AFFECTED SEWER MAINS
	2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY CITY OF LYTLE CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.	F.MEET ALL POST-SSO REQUIREMENT: DECREE, INCLUDING LINE CLEANING SEWER MAINS (AT CITY OF LYTLE D SHOULD THE CONTRACTOR FAIL TO ADDR CITY OF LYTLE SATISFACTION, THEY WILL INCURRED BY CITY OF LYTLE, INCLUDING AND/OR ANY OTHER FEDERAL, STATE OR
	 THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP: //WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS. 	NO SEPARATE MEASUREMENT OR PAYMEN ALL WORK SHALL BE DONE ACCORDING T AND SAWS.
	4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE CITY OF LYTLE CONSTRUCTION INSPECTION DIVISION ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.	2. IF BYPASS PUMPING IS REQUIRED, THE WORK IN ACCORDANCE WITH SAWS S AND SANITARY SEWER CONSTRUCTION, I
	5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO THE CITY OF LYTLE.	3. PRIOR TO TIE-INS, ANY SHUTDOWNS OF MUST BE COORDINATED WITH THE DEPARTMENT AT 830.709.3692 AT LEA SHUTDOWN. THE CONTRACTOR MUST A AS RELATED TO THE TIE-INS; THIS IS A OF LYTLE OR THE PROJECT AND I CONTRACTOR TO SEQUENCE THE WORK
	6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1–2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON CITY OF LYTLE FACILITIES FACILITIES. THE FOLLOWING CONTACT INFORMATION IS SUPPLIED FOR VERIFICATION PURPOSES:	4. SEWER PIPE WHERE WATER LINE CROSS REQUIREMENTS OF ASTM D2241, TAC CONTRACTOR SHALL CENTER A 20' JOIN AT THE PROPOSED WATER CROSSING.
	• TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES,	5. ELEVATIONS POSTED FOR TOP OF MAN SHALL BE THE RESPONSIBILITY OF THE AND ADJUSTMENTS FOR TOP OF MANH OF THE PROJECT'S IMPROVEMENTS. (NS
	 CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION. 8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR ATASCOSA COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE 	6. SPILLS, OVERFLOWS, OR DISCHARGE OVERFLOWS, OR DISCHARGES OF WASTE PRODUCTS, OR CHEMICALS MUST BE RE LYTLE INSPECTOR ASSIGNED TO TH CONSTRUCTION PERMIT (GCP). THIS RE OVERELOW OR DISCURDED ESCAPOLISS
	2008 THE CONTRACTOR SHALL COMPLY WITH CITY OF LYTLE OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.	7. MANHOLE AND ALL PIPE TESTING (INCL PERFORMED AND PASSED PRIOR TO FIL OF LYTE DUPLO WORKS DEAD THENT
	10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.	FOR WATER AND SANITARY SEWER CONS 8. ALL PVC PIPE OVER 14 FEET OF COV
	11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM CITY OF LYTLE WORK ON CITY OF LYTLE RECOGNIZED HOLIDAYS. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE CITY OF LYTLE INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK.	MINIMUM PIPE STIFFNESS OF 115 PSI.
	ANY AND ALL CITY OF LYTLE UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.	
	12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE CITY OF LYTLE INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12–INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.	
	13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO CITY OF LYTLE CONSTRUCTION INSPECTION DIVISION.	
m Sanias Asanay		

DTES

JLT OF THEIR WORK. ALL CONTRACTOR REVENTION AND CONTROL SHALL BE ULD AN SSO OCCUR, THE CONTRACTOR

SSO AND NOTIFY THE CITY OF LYTLE TELY AT (830) 709-3692. PROVIDE AN ESTIMATED VOLUME OR FLOW. RCE OF THE SSO. TO THE EXTENT OF PREVENTING A

ERWAYS. ONTAINED SEWAGE TO THE COLLECTION RLY DISPOSE OF CONTAMINATED

NS AND REMOVE ANY DEBRIS. ITS AS PER THE EPA CONSENT AND TELEVISING THE AFFECTED DIRECTION) WITHIN 24 HOURS.

RESS AN SSO IMMEDIATELY AND TO . BE RESPONSIBLE FOR ALL COSTS ANY FINES FROM EPA, TCEQ R LOCAL AGENCIES.

ENT SHALL BE MADE FOR THIS WORK. TO GUIDELINES SET BY THE TCEQ

ITEM NO. 864, "BYPASS PUMPING".

CITY OF LYTLE PUBLIC WORKS EAST ONE WEEK IN ADVANCE OF THE ALSO PROVIDE A SEQUENCE OF WORK AT NO ADDITIONAL COST TO THE CITY IT IS THE RESPONSIBILITY OF THE ACCORDINGLY.

SSES SHALL BE 160 PSI AND MEET THE 217.53 AND TCEQ 290.44(E)(4)(B). DINT OF 160 PSI PRESSURE RATED PVC

HOLES ARE FOR REFERENCE ONLY: IT CONTRACTOR TO MAKE ALLOWANCES HOLES TO MATCH THE FINISHED GRADE NSPI)

EWATER, RECYCLED WATER, PETROLEUM EPORTED IMMEDIATELY TO THE CITY OF THE COUNTER PERMIT OR GENERAL EQUIREMENT APPLIES TO EVERY SPILL, GOFSIZE.

CLUDING THE TV INSPECTION) MUST BE FINAL FIELD ACCEPTANCE BÝ THE CITY I, AS PER THE SAWS SPECIFICATIONS STRUCTION.

OVER SHALL BE EXTRA STRENGTH WITH

PROJECT SEWER NOTES

- ENSURING THAT NO SANITARY SEWER 1. ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO 10' PAST THE PROPERTY LINE AND CAPPED AND SEALED. CONTRACTOR SHALL INSTALL A 2" X 4" STAKE, FOUR (4) FEET LONG, TWO (2) FEET DEEP INTO THE GROUND AT THE END OF EACH SERVICE. NO SEPARATE PAY ITEM.
 - 2. CONTRACTOR TO INSTALL PERMANENT MARKERS AT THE END OF ALL SEWER LATERALS, PER LATERAL DETAIL.
 - . NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - 4. ALL 6" SEWER LATERALS WILL BE SET AT 2% GRADE FROM THE MAIN TO THE PROPERTY LINE. . WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN
 - IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH SAWS CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
 - CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 6" ABOVE FINISHED GRADE WITH CONCRETE RING ENCASEMENT.
 - '. ALL SEWER PIPES SHALL BE 8" AND 12" PVC (SDR 26), UNLESS OTHERWISE NOTED.
 - B. CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM INVERT SHOWN ON PLANS.
- E CONTRACTOR SHALL PERFORM SUCH 9. CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. ANY FENCE STANDARD SPECIFICATION FOR WATER DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- EXISTING FORCE MAINS OF ANY SIZE 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - . CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" OF ASPHALT ON TOP OF THE RING ENCASEMENT.
 - 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE. GES OF WASTEWATER: ALL SPILLS, 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
 - 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

SHEET

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STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.

4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

SITE PREPARATION

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZEF SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).

2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

REDUCE ROOT BURNING AND DIEBACK. FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH

OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE)

4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OF OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).

5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE 6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT

THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS THOROUGHLY WET. UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE

ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2-3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

INSPECTION AND MAINTENANCE GUIDELINES SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.

2. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

HIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE© UNLESS OTHERWISE NOTED. Imagery © 2016, CAPCOG, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Agency.

SOD INSTALLATION DETAIL

ISOMETRIC PLAN VIEW

ROCK BERMS

THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE. AS SUCH, ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING BED LOAD IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.

2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.

3. REPAIR ANY LOOSE WIRE SHEATHING.

4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION 5. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS,

WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC. 6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

SECTION "A-A'

MATERIALS

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.

2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED

INSTALLATION

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.

2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.

3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".

4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES. AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.

5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.

6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

COMMON TROUBLE POINTS

. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).

2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).

SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION. CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGE WAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINDELL HARDNESS EXCEEDING 140.

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.

2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET

6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

COMMON TROUBLE POINTS FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO

CONCENTRATE AND FLOW OVER THE FENCE. 2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER

FENCE).

3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND SIDES)

4. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE).

INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL.

2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

4. REPLACE OR REPAIR SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.

FROM STORM WATER RUNOFF.

MATERIALS

MAINTENANCE

SILT FENCE DETAIL