Civil Plans
for

HUNTER'S BEND

A TRACT OF LAND LYING IN SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST OF THE I.B.&M., ROGERS, COUNTY, OKLAHOMA.

OWNER:
Richmoore Family, LLC
6528 E 101st St, Ste D1#412
Tulsa, OK 74133
mike.p.merrell@gmail.com
Michael Merrell

ENGINEER:
Wallace Design Collective, P.C.
123 North Martin Luther King Jr Blvd.
Tulsa, Oklahoma, 74103
Phone: (918) 584-5858
A. NICOLE WATTS, P.E. NO. 21511
OK CA NO. 1460, EXPIRES 6/30/2023
nicole.watts@wallace.design

SURVEYOR:
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210 Chouteau Avenue
Chouteau, Oklahoma 74337
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RPLS 1556, CA #4502 EXPIRES 6/30/2022
wade@bennettsurveying.com

General Construction Notes:

1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT ROGERS COUNTY STANDARDS AND SPECIFICATIONS.
2. EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN AND LOCATIONS HAVE BEEN VERIFIED BY THE OWNERS OF SAID LINES. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.
3. AFTER CONSTRUCTION IS COMPLETE, ALL DISTURBED AREAS SHALL BE RESEEDED ACCORDING TO ROGERS COUNTY SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDED AREAS UNTIL GROWTH IS ESTABLISHED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY WORK ORDERS AND PERMITS FROM THE COUNTY, INCLUDING PROVISIONS OF BONDS AND INSURANCE AS REQUIRED.
5. BUILDING SITES ARE SHOWN HEREON FOR FINAL GRADING INFORMATION ONLY. WALLACE DESIGN COLLECTIVE HAS NOT DESIGNED SUBGRADES OR FOUNDATIONS, OR DETERMINED THE SUITABILITY OF THE LOCAL SOIL TO BE USED IN BUILDING SUBGRADES. REFER TO THE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION SPECIFICS.
6. ALL WASTE OR SPOIL SHALL BE TAKEN TO A COUNTY APPROVED SITE OR SPREAD IN AREAS OUTSIDE OF THE STREET RIGHTS-OF-WAY AS DIRECTED BY THE OWNER AND ENGINEER.
7. A RIGHT-OF-WAY PERMIT WILL BE REQUIRED FOR ALL WORK IN THE COUNTY RIGHT-OF-WAY.
8. ALL GRADES ARE BASED ON NAVD 1988 U.S.G.S. VERTICAL DATUM.

Legend

AC	ACRE	PP	POWER POLE
B/L	BUILDING LINE	PPD	POWER POLE WITH DIP
BM	BENCH MARK	PVC	POLYVINYL CHLORIDE PIPE
CHBS	CHISELED BOX, SET	RA	RESERVE AREA
CL	CENTERLINE	R	RADIUS
CO	SEWER CLEAN-OUT	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RD	ROOF DRAIN
CPP	CORRUGATED POLYPROPYLENE PIPE	RWE	RESTRICTED WATERLINE EASEMENT
CY	CUBIC YARD	SD	STORM SEWER PIPE
E	ELECTRIC METER	SDMH	STORM SEWER MANHOLE
EPED	ELECTRIC PEDESTAL	SF	SQUARE FEET
EL	ELEVATION	SS	SANITARY SEWER PIPE
ESMT	EASEMENT	SSMH	SANITARY SEWER MANHOLE
EX	EXISTING	ST	STORM SEWER
FH	FIRE HYDRANT	ST/E	STORM SEWER EASEMENT
FL	FLOWLINE (INVERT)	SY	SQUARE YARD
FNC	FENCE	TC	TOP OF CURB
FND	FOUND	TG	TOP OF GUTTER
FP	FIRE PROTECTION	TP	TOP OF PAVING
G	GUTTER	TPED	TELEPHONE PEDESTAL
UG	GAS LINE	TS	TOP OF SIDEWALK
GM	GAS METER	TW	TOP OF WALL
GUY	GUY ANCHOR	TYP	TYPICAL
HP	HIGH-PERFORMANCE POLYPROPLENE PIPE	U/E	UTILITY EASEMENT
IP	IRON PIN	UGE	UNDERGROUND ELECTRIC
IPF	IRON PIN FOUND	UT	UNDERGROUND TELEPHONE
IPS	IRON PIN SET	W	WATER LINE
IR	IRRIGATION	WL/E	WATER LINE EASEMENT
IRC	IRRIGATION CONDUIT	WM	WATER METER
LF	LINEAR FEET	WMH	WATER MANHOLE
MAE	MUTUAL ACCESS EASEMENT	WSL	WATER SERVICE LINE
OHE	OVERHEAD ELECTRIC	WV	WATER VALVE
OT	OVERHEAD TELEPHONE	XFMR	TRANSFORMER

LEGAL DESCRIPTION

A TRACT OF LAND LYING IN SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST OF THE I.B.&M., ROGERS COUNTY, OKLAHOMA, SAID TRACT BEING DESCRIBED AS FOLLOWS:
THE SW/4 OF NW/4 OF NE/4 AND THE E/2 OF SE/4 OF NW/4 AND THAT PART OF THE E/2 OF SW/4 LYING NORTH OF STATE HIGHWAY 20 RIGHT-OF-WAY, AND A PART OF THE W/2 OF SW/4 OF NE/4, DESCRIBED AS: BEGINNING AT THE SOUTHWEST CORNER OF SAID W/2 OF SW/4 OF NE/4; THENCE NORTH ALONG THE WEST LINE OF SAID W/2 OF SW/4 OF NE/4 TO THE NORTHWEST CORNER OF SAID W/2 OF SW/4 OF NE/4; THENCE EAST ALONG THE NORTH LINE OF SAID W/2 OF SW/4 OF NE/4 TO THE NORTHEAST CORNER OF SAID W/2 OF SW/4 OF NE/4; THENCE SOUTHWESTERLY TO THE SOUTHWEST CORNER OF SAID W/2 OF SW/4 OF NE/4 AND THE POINT OF BEGINNING.

Impervious Area

TOTAL SITE AREA:	698,069.93 SF	(16.03 AC)
TOTAL DISTURBED AREA:	698,069.93 SF	(16.03 AC)
EXISTING IMPERVIOUS AREA:	4,746.48 SF	(0.11 AC)
PROPOSED IMPERVIOUS AREA:	130,550.74 SF	(3.00 AC)
NET INCREASE:	+125,804.26 SF	

Benchmark 1

3/8" Iron Pin
(N:488352.704, E:2700366.049)
ELEVATION = 674.48 (NAVD88)

Benchmark 2

3/8" Iron Pin
(N:487793.270, E:2699584.402)
ELEVATION = 664.18 (NAVD88)

Contact List

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CLAREMORE, OKLAHOMA 74017
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VERDIGRIS VALLEY ELECTRIC DEPARTMENT
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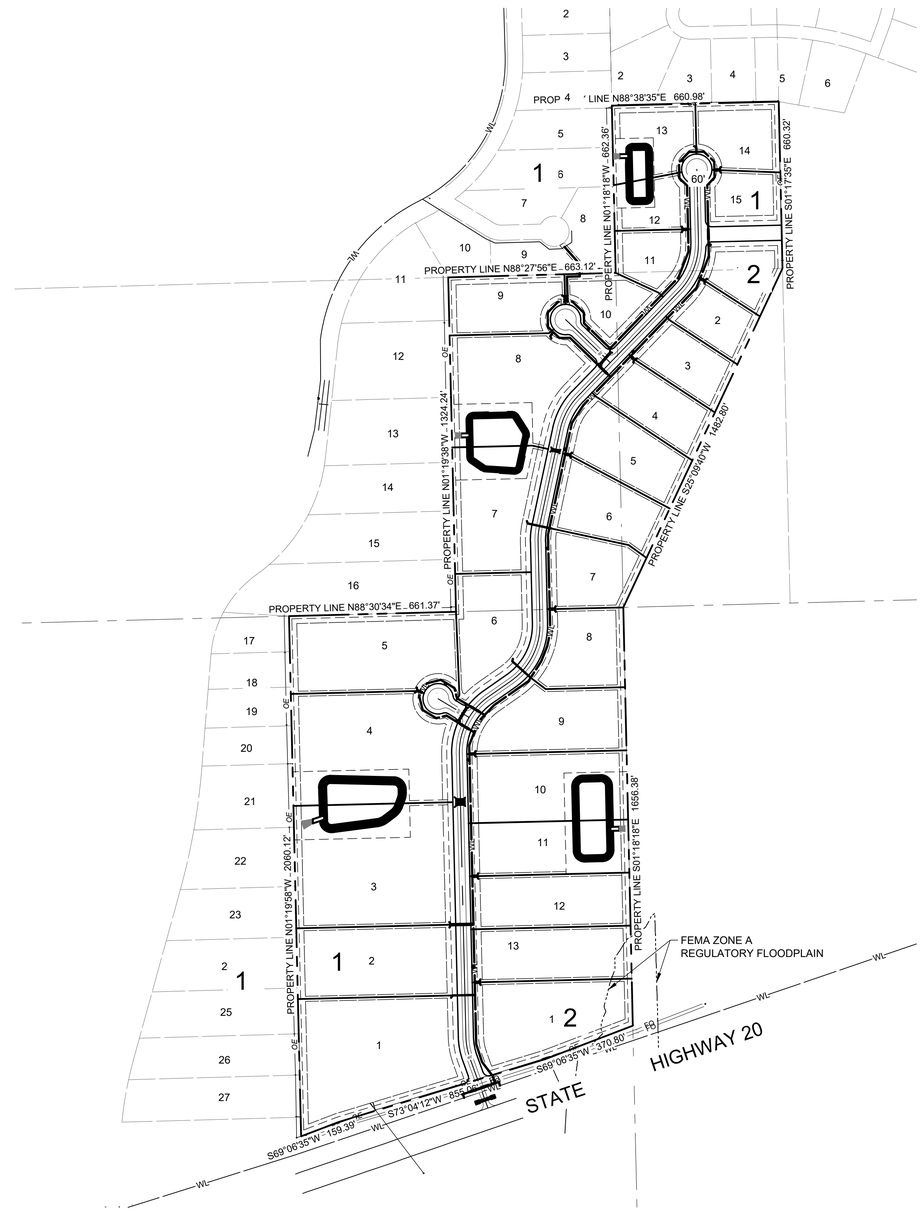
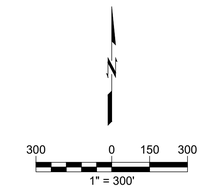
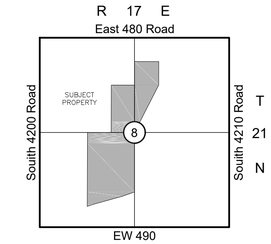
ALLEGIANCE COMMUNICATIONS
9952 E SPOTTED HORSE DR
CLAREMORE, OK 74019
PHONE: (918) 342-0619

OKLAHOMA NATURAL GAS
SCOTT GIDEON - NEW SERVICE
5848 EAST 15TH STREET
TULSA, OK 74112
PHONE: (918) 831-8386







Location Map

Sheet Index

IDP INDEX	SHEET NO.	SHEET TITLE
C01	01	COVER SHEET
C02	02	PRELIMINARY PLAT
C03	03	DETAILED PRELIMINARY PLAT 1
C04	04	DETAILED PRELIMINARY PLAT 2
C05	05	OVERALL GRADING PLAN
C06	06	DETAILED GRADING PLAN 1
C07	07	DETAILED GRADING PLAN 2
C08	08	DETAILED GRADING PLAN 3
C09	09	EROSION CONTROL PLAN
C10	10	OVERALL STREET PLAN
C11	11	DETAILED STREET PLAN 1
C12	12	DETAILED STREET PLAN 2
C13	13	DETAILED STREET PLAN 3
C14	14	STREET PROFILES 1
C15	15	STREET PROFILES 2
C16	16	STREET PROFILES 3
C17	17	INTERSECTION DETAILS 1
C18	18	INTERSECTION DETAILS 2
C19	19	EXISTING DRAINAGE AREA MAP
C20	20	PROPOSED DRAINAGE AREA MAP
C20a	20a	
C21	21	STORM SEWER PLAN
C22	22	STORM SEWER PROFILES 1
C23	23	STORM SEWER PROFILES 2
C24	24	STORM SEWER PROFILES 3
C25	25	DETENTION POND SCM-A
C26	26	DETENTION POND SCM-B
C27	27	DETENTION POND SCM-C
C28	28	DETENTION POND SCM-D
C29	29	DETAIL SHEET 1

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918.584.5858 · 800.364.5858
ca# 1460 exp. date 6/30/2023

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND
ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21511
OKLAHOMA
8-4-2022

ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	=	1"=300'
VERT SCALE	=	N/A
IDP NO.	=	-
ATLAS NO.	=	
MANAGER	=	ANW
DRAWN BY	=	MDS

COVER SHEET

C01

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:52:45 PM

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_COVER SHEET.dwg

PRELIMINARY PLAT

HUNTER'S BEND

A TRACT OF LAND LYING IN SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST OF THE I.B.&M., ROGERS COUNTY, OKLAHOMA.

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Chouteau, Oklahoma 74337
Phone: (918) 476-7484
RPLS 1556, CA #4502 EXPIRES 6/30/2022
wade@bennettsurveying.com

NOTES

1. THIS PLAT MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.
2. ADDRESSES SHOWN ON THIS PLAT ARE ACCURATE AT THE TIME THE PLAT WAS FILED. ADDRESSES ARE SUBJECT TO CHANGE AND SHOULD NEVER BE RELIED ON IN PLACE OF THE LEGAL DESCRIPTION

FLOOD ZONE NOTE

THE PROPERTY DESCRIBED HEREON HAS BEEN EXAMINED BY A MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP ROGERS COUNTY, OKLAHOMA, WITH THE PROPERTY LYING IN TWO(2) DIFFERENT FIRM PANELS:

A.) MAP NO. 40131C0285H, MAP REVISED: APRIL 3, 2012, WHICH SHOWS THE ENTIRE PORTION OF THE PROPERTY ON THIS FIRM PANEL DESCRIBED HEREON AS LOCATED IN ZONE (X) NOT SHADED WHICH IS CLASSIFIED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

B.) MAP NO. 40131C0295H, MAP REVISED: APRIL 3, 2012, WHICH SHOWS A PORTION OF THE PROPERTY ON THIS FIRM PANEL DESCRIBED HEREON AS LOCATED IN ZONE (A), WITHOUT BASE FLOOD ELEVATION. (AREA IS SHADED ON THE SURVEY HEREON)

BASIS OF BEARINGS

THE BASIS OF BEARING IS BASED ON THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST, ROGERS COUNTY AS S01°18'18"E.

SITE DATA

TOTAL ACREAGE:	96.84 ACRES (4,218,466.36 SQUARE FEET)
NUMBER OF BLOCKS:	2
NUMBER OF LOTS:	29
RESERVE AREAS:	0

UTILITY SERVICE PROVIDERS

WATER	-	ROGERS COUNTY RURAL WATER DISTRICT NO. 7
SEWER	-	PRIVATE AEROBIC SYSTEMS
ELECTRIC	-	VERDIGRIS VALLEY ELECTRIC COOPERATIVE
TELEPHONE	-	ALLEGIANCE COMMUNICATIONS
GAS	-	OKLAHOMA NATURAL GAS

MONUMENTATION

ALL CORNERS TO BE SET WITH A ½" IRON PIN WITH YELLOW CAP UNLESS OTHERWISE NOTED.

LINE LEGEND

- PROPOSED BOUNDARY
- PROPOSED RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED BUILDING LINE
- PROPOSED EASEMENT LINE
- PROPOSED CENTER LINE

ABBREVIATIONS

ACC	ACCESS
B/L	BUILDING LINE
BK PG	BOOK & PAGE
F/U/E	FENCE & UTILITY EASEMENT
LNA	LIMITS OF NO ACCESS
OD/E	OVERLAND DRAINAGE EASEMENT
POB	POINT OF BEGINNING
ROW	RIGHT-OF-WAY
U/E	UTILITY EASEMENT

LEGAL DESCRIPTION

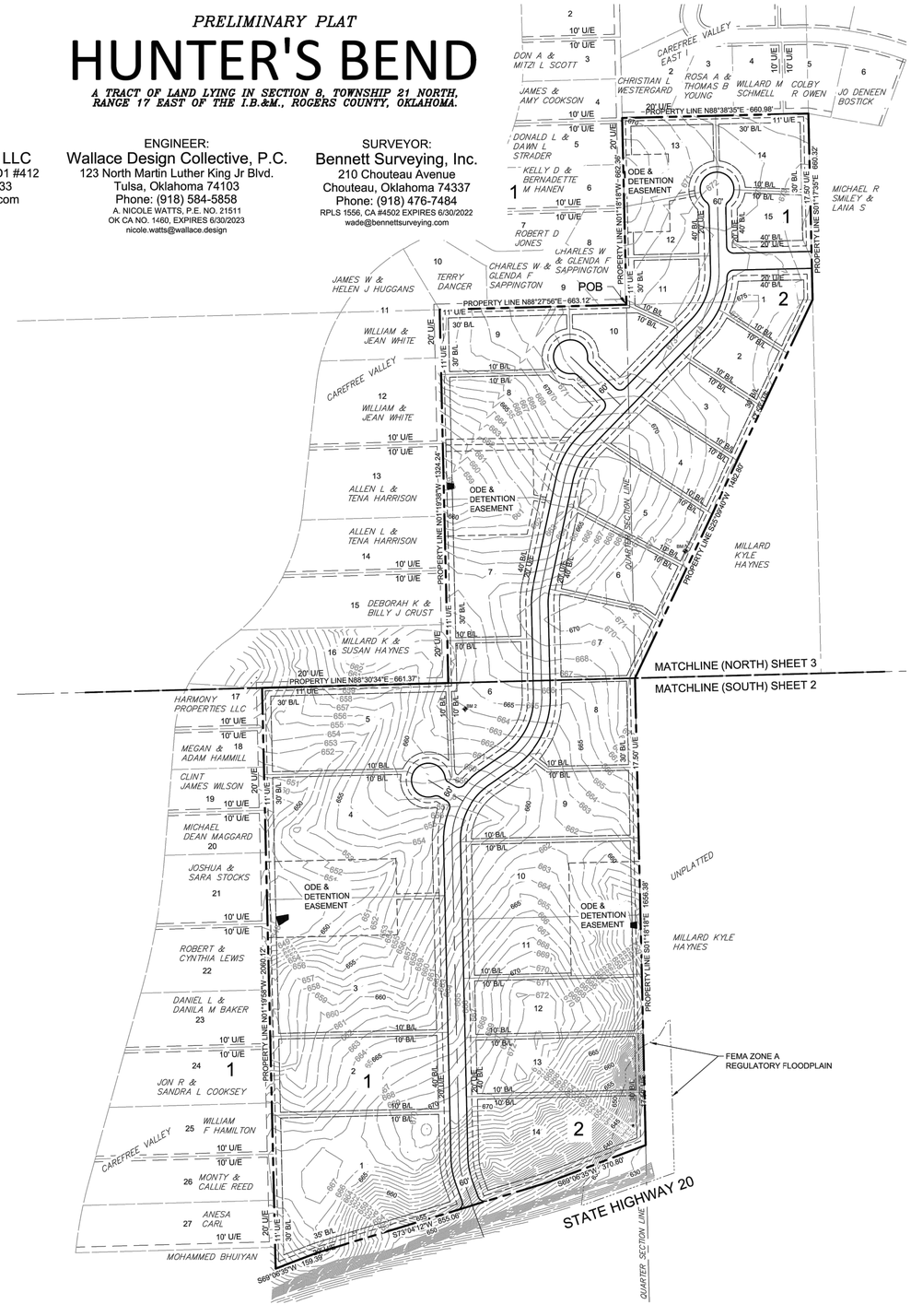
A TRACT OF LAND LYING IN SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST OF THE I.B.&M., ROGERS COUNTY, OKLAHOMA, SAID TRACT BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER (NE/4) OF THE NORTHWEST QUARTER (NW/4) OF SAID SECTION EIGHT (8); THENCE N01°18'18"W AND ALONG THE EAST LINE OF SAID NORTHEAST QUARTER (NE/4) OF THE NORTHWEST QUARTER (NW/4) OF SAID SECTION EIGHT (8) FOR A DISTANCE OF 662.36 FEET TO A POINT ON THE SOUTHWEST CORNER OF LOT TWO (2) BLOCK TWO (2) CAREFREE VALLEY EAST I; THENCE N88°38'35"E AND ALONG LOTS TWO (2) THROUGH FIVE (5) BLOCK TWO (2) CAREFREE VALLEY EAST I FOR A DISTANCE OF 660.98 FEET; THENCE S01°17'35"E FOR A DISTANCE OF 660.32 FEET; THENCE S25°09'40"W FOR A DISTANCE OF 1482.80 FEET; THENCE S01°18'18"E FOR A DISTANCE OF 1656.38 FEET; THENCE S69°06'35"W FOR A DISTANCE OF 370.80 FEET; THENCE S73°04'12"W FOR A DISTANCE OF 855.06 FEET; THENCE S69°06'35"W FOR A DISTANCE OF 159.39 FEET; THENCE N01°19'58"W AND ALONG THE EAST LINES OF LOTS SEVENTEEN (17) THROUGH TWENTY-SEVEN (27), BLOCK ONE (1) OF CAREFREE VALLEY FOR A DISTANCE OF 2060.12 FEET TO A POINT ON THE SOUTH LINE OF LOT SIXTEEN (16) BLOCK ONE (1) CAREFREE VALLEY; THENCE N88°30'34"E AND ALONG THE SOUTH LINE OF LOT SIXTEEN (16) BLOCK ONE (1) CAREFREE VALLEY FOR A DISTANCE OF 661.37 FEET TO A POINT ON THE SOUTHEAST CORNER OF LOT SIXTEEN (16), BLOCK ONE (1) CAREFREE VALLEY; THENCE N01°19'38"W AND ALONG THE EAST LINES OF LOTS ELEVEN (11) THROUGH SIXTEEN (16) BLOCK ONE (1) CAREFREE VALLEY FOR A DISTANCE OF 1324.24 FEET TO A POINT ON THE SOUTHWEST CORNER OF LOT TEN (10) BLOCK ONE (1), CAREFREE VALLEY; THENCE N88°27'56"E AND ALONG THE SOUTH LINE OF LOTS EIGHT (8) THROUGH TEN (10) BLOCK ONE (1) CAREFREE VALLEY A DISTANCE OF 663.12 FEET TO THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER (NE/4) OF THE NORTHWEST QUARTER (NW/4) OF SAID SECTION 8 AND THE POINT OF BEGINNING; SAID TRACT CONTAINING 4,218,466.36 SQUARE FEET (96.84 ACRES) MORE OR LESS.

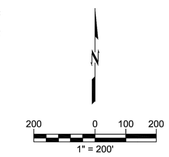
Benchmark 1

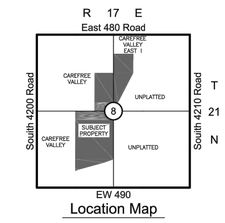
3/8" Iron Pin
(N:488352.704, E:2700366.049)
ELEVATION = 674.48 (NAVD88)

Benchmark 2

3/8" Iron Pin
(N:487793.270, E:2699584.402)
ELEVATION = 664.18 (NAVD88)







Location Map

Lot Sizes

BLOCK	LOT	LOT AREA (SF)	MINIMUM FINISHED FLOOR E.	CULVERT SIZE
1	1	284,583.15	665.00	12
	2	176,834.50	665.00	12
	3	306,277.81	666.00	12
	4	272,236.14	665.00	12
	5	204,406.50	658.00	12
	6	127,257.30	660.00	18
	7	164,677.31	665.00	12
	8	212,509.96	665.00	12
	9	100,582.96	670.00	12
	10	72,487.85	672.00	18
	11	62,102.08	672.00	12
	12	61,087.93	671.00	12
	13	91,906.62	671.00	15
	14	86,310.44	673.00	24
	15	64,289.96	674.00	15
2	1	68,392.88	674.00	12
	2	94,324.28	674.00	15
	3	78,159.28	671.00	24
	4	92,385.69	668.00	24
	5	115,428.23	665.00	30
	6	108,836.44	665.00	15
	7	99,548.49	667.00	24
	8	102,977.32	664.00	24
	9	147,978.79	660.00	30
	10	173,257.70	662.00	30
	11	132,725.45	666.00	24
	12	132,698.34	665.00	24
	13	132,671.22	665.00	15
	14	182,620.51	660.00	12

HUNTER'S BEND
PRELIMINARY PLAT
2/10/2022
SHEET 1 OF 5

wallace design collective

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123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
918.584.5858 · 800.364.5858
ca# 1460 exp. date 6/30/2023

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ROGERS COUNTY , OKLAHOMA

ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=200'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

PRELIMINARY PLAT

C02

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:52:53 PM

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PRELIMINARY PLAT

HUNTER'S BEND

CURVE DATA					
Curve #	Length	Radius	Delta Angle	Chord Length	Chord Bearing
C1	87.34	270.00	18.53	86.96	S10° 36' 26"E
C2	152.85	270.00	32.44	150.82	S14° 52' 41"W
C3	112.77	270.00	23.93	111.95	S43° 03' 41"W
C4	265.62	270.00	56.37	255.04	S26° 50' 35"W
C5	63.24	270.00	13.42	63.10	S5° 22' 12"W
C6	150.33	270.00	31.90	148.39	S28° 01' 50"W
C7	213.35	270.00	45.27	207.84	S21° 20' 39"W
C8	97.04	300.00	18.53	96.62	N10° 36' 26"W
C9	118.82	300.00	22.69	118.05	N10° 00' 23"E
C10	35.02	25.00	80.26	32.23	N18° 46' 31"W
C11	21.68	25.00	49.68	21.00	N83° 44' 37"W
C12	146.27	60.00	139.68	112.65	N38° 44' 37"W
C13	146.27	60.00	139.68	112.65	S79° 03' 50"E
C14	21.68	25.00	49.68	21.00	S34° 03' 50"E
C15	35.02	25.00	80.26	32.23	N80° 58' 04"E
C16	74.28	300.00	14.19	74.09	N47° 55' 59"E
C17	236.11	240.00	56.37	226.70	N26° 50' 35"E
C18	70.27	300.00	13.42	70.11	N5° 22' 12"E
C19	167.03	300.00	31.90	164.88	N28° 01' 50"E
C20	39.27	25.00	90.00	35.36	N1° 01' 08"W
C21	21.68	25.00	49.68	21.00	N70° 51' 32"W
C22	58.86	60.00	56.21	56.53	N67° 35' 34"W
C23	133.99	60.00	127.95	107.83	N24° 29' 21"E
C24	99.69	60.00	95.20	88.61	S43° 56' 12"E
C25	21.68	25.00	49.68	21.00	S21° 10' 45"E
C26	39.27	25.00	90.00	35.36	N88° 58' 52"E
C27	189.64	240.00	45.27	184.75	N21° 20' 39"E
C28	21.68	25.00	49.68	21.00	N26° 07' 58"W
C29	42.06	60.00	40.16	41.20	N30° 53' 28"W
C30	104.21	60.00	99.52	91.60	N38° 56' 56"E
C31	97.77	60.00	93.36	87.31	S44° 32' 29"E
C32	48.43	60.00	46.25	47.12	S25° 15' 50"W
C33	21.68	25.00	49.68	21.00	S23° 32' 49"W
C34	39.27	25.00	90.00	35.36	S46° 17' 35"E
C35	92.01	300.00	17.57	91.65	S35° 11' 41"W
C36	133.63	240.00	31.90	131.91	S28° 01' 50"W
C37	56.22	240.00	13.42	56.09	S5° 22' 12"W
C38	226.49	300.00	43.26	221.15	S20° 17' 15"W
C39	68.65	300.00	13.11	68.50	S48° 28' 15"W
C40	236.11	240.00	56.37	226.70	S26° 50' 35"W
C41	77.63	240.00	18.53	77.30	S10° 36' 26"E
C42	37.34	25.00	85.59	33.97	S45° 54' 47"W
C43	121.94	300.00	23.29	121.11	S14° 45' 49"W
C44	40.55	25.00	92.94	36.25	S26° 35' 52"W
C45	37.99	25.00	87.06	34.44	S63° 24' 08"E

LINE DATA		
Line #	Length	Bearing
L1	25.00	N68° 42' 30.24"W
L2	25.00	N31° 05' 46.31"E
L3	86.90	N52° 47' 08.69"W
L4	25.00	S77° 55' 11.06"E
L5	65.00	N77° 55' 11.06"W
L6	25.00	S46° 01' 08.28"E
L7	25.00	S46° 01' 08.28"E
L8	25.00	S46° 01' 08.28"E
L9	25.00	N63° 35' 29.78"W
L10	25.00	S50° 30' 46.57"W
L11	25.00	S46° 01' 08.28"E
L12	39.49	S77° 55' 11.06"E
L13	44.26	S77° 55' 11.06"E
L14	10.00	N12° 04' 48.94"E
L15	10.00	N12° 04' 48.94"E
L16	9.94	N1° 20' 25.20"W
L17	10.06	N1° 20' 25.20"W

MATCHLINE (NORTH) SHEET 3
PROPERTY LINE N88°30'34"E - 661.37'
HARMONY PROPERTIES LLC
MEGAN & ADAM HAMMILL
CLINT JAMES WILSON
MICHAEL DEAN MAGGARD
JOSHUA & SARA STOCKS
ROBERT & CYNTHIA LEWIS
DANIEL L & DANILA M BAKER
JON R & SANDRA L COOKSEY
WILLIAM F HAMILTON
MONTY & CALLIE REED
ANESA CARL
MOHAMMED BHUIYAN
CAREFREE VALLEY
ODE & DETENTION EASEMENT
FEMA ZONE A REGULATORY FLOODPLAIN
60.00' ROW
STREET A
STATE HIGHWAY 20
QUARTER SECTION LINE
PROPERTY LINE S01°18'18"E 1868.38'
MILLARD KYLE H
N 620.57' LNA
704.60' LNA
S73°04'12"W 855.06'
N 60.00' ACC
S69°06'35"W 370.80'
S69°06'35"W 159.39'
PROPERTY LINE N01°19'58"W 2066.12'
N01°20'25"W 1118.45'
N88°40'02"E 504.48'
N88°40'02"E 460.00'
N88°40'02"E 631.47'
N88°40'02"E 153.97'
N88°39'35"E 314.66'
N88°39'35"E 632.26'
N88°39'35"E 249.88'
N88°39'35"E 632.09'
N88°39'35"E 250.00'
N88°39'35"E 631.96'
N88°39'35"E 631.83'
N88°39'35"E 631.70'
N88°40'02"E 631.53'
N88°40'02"E 631.57'
N88°16'14"W 142.86'
N55°01'36"E 108.57'
N02°19'47"W 331.13'
N01°11'18"W 390.00'
N01°19'58"W 125.00'
N01°19'58"W 125.00'
N88°40'02"E 153.97'
N88°40'02"E 153.97'
R60.00'
C13
C12
C11
C10
C14
C15
C16
C18
C17
C4
C38
C39
C40
C3
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L15
L16
L17
~XXX~
10' B/L
10' U/E
11' U/E
20' U/E
30' B/L
35' B/L
40' B/L
308.23'
308.24'
443.23'
543.67'
135.00'
135.00'
280.00'
465.00'
210.00'
274.07'
169.07'
154.36'
214.36'
315.93'
250.00'
274.07'
1868.38'
210.00'
210.00'
210.00

PRELIMINARY PLAT

HUNTER'S BEND

CURVE DATA					
Curve #	Length	Radius	Delta Angle	Chord Length	Chord Bearing
C1	87.34	270.00	18.53	86.96	S10° 36' 26"E
C2	152.85	270.00	32.44	150.82	S14° 52' 41"W
C3	112.77	270.00	23.93	111.95	S43° 03' 41"W
C4	265.62	270.00	56.37	255.04	S26° 50' 35"W
C5	63.24	270.00	13.42	63.10	S5° 22' 12"W
C6	150.33	270.00	31.90	148.39	S28° 01' 50"W
C7	213.35	270.00	45.27	207.84	S21° 20' 39"W
C8	97.04	300.00	18.53	96.62	N10° 36' 26"W
C9	118.82	300.00	22.69	118.05	N10° 00' 23"E
C10	35.02	25.00	80.26	32.23	N18° 46' 31"W
C11	21.68	25.00	49.68	21.00	N83° 44' 37"W
C12	146.27	60.00	139.68	112.65	N38° 44' 37"W
C13	146.27	60.00	139.68	112.65	S79° 03' 50"E
C14	21.68	25.00	49.68	21.00	S34° 03' 50"E
C15	35.02	25.00	80.26	32.23	N80° 58' 04"E
C16	74.28	300.00	14.19	74.09	N47° 55' 59"E
C17	236.11	240.00	56.37	226.70	N26° 50' 35"E
C18	70.27	300.00	13.42	70.11	N5° 22' 12"E
C19	167.03	300.00	31.90	164.88	N28° 01' 50"E
C20	39.27	25.00	90.00	35.36	N1° 01' 08"W
C21	21.68	25.00	49.68	21.00	N70° 51' 32"W
C22	58.86	60.00	56.21	56.53	N67° 35' 34"W
C23	133.99	60.00	127.95	107.83	N24° 29' 21"E
C24	99.69	60.00	95.20	88.61	S43° 56' 12"E
C25	21.68	25.00	49.68	21.00	S21° 10' 45"E
C26	39.27	25.00	90.00	35.36	N88° 58' 52"E
C27	189.64	240.00	45.27	184.75	N21° 20' 39"E
C28	21.68	25.00	49.68	21.00	N26° 07' 58"W
C29	42.06	60.00	40.16	41.20	N30° 53' 28"W
C30	104.21	60.00	99.52	91.60	N38° 56' 56"E
C31	97.77	60.00	93.36	87.31	S44° 32' 29"E
C32	48.43	60.00	46.25	47.12	S25° 15' 50"W
C33	21.68	25.00	49.68	21.00	S23° 32' 49"W
C34	39.27	25.00	90.00	35.36	S46° 17' 35"E
C35	92.01	300.00	17.57	91.65	S35° 11' 41"W
C36	133.63	240.00	31.90	131.91	S28° 01' 50"W
C37	56.22	240.00	13.42	56.09	S5° 22' 12"W
C38	226.49	300.00	43.26	221.15	S20° 17' 15"W
C39	68.65	300.00	13.11	68.50	S48° 28' 15"W
C40	236.11	240.00	56.37	226.70	S26° 50' 35"W
C41	77.63	240.00	18.53	77.30	S10° 36' 26"E
C42	37.34	25.00	85.59	33.97	S45° 54' 47"W
C43	121.94	300.00	23.29	121.11	S14° 45' 49"W
C44	40.55	25.00	92.94	36.25	S26° 35' 52"W
C45	37.99	25.00	87.06	34.44	S63° 24' 08"E

LINE DATA		
Line #	Length	Bearing
L1	25.00	N68° 42' 30.24"W
L2	25.00	N31° 05' 46.31"E
L3	86.90	N52° 47' 08.69"W
L4	25.00	S77° 55' 11.06"E
L5	65.00	N77° 55' 11.06"W
L6	25.00	S46° 01' 08.28"E
L7	25.00	S46° 01' 08.28"E
L8	25.00	S46° 01' 08.28"E
L9	25.00	N63° 35' 29.78"W
L10	25.00	S50° 30' 46.57"W
L11	25.00	S46° 01' 08.28"E
L12	39.49	S77° 55' 11.06"E
L13	44.26	S77° 55' 11.06"E
L14	10.00	N12° 04' 48.94"E
L15	10.00	N12° 04' 48.94"E
L16	9.94	N1° 20' 25.20"W
L17	10.06	N1° 20' 25.20"W

HUNTER'S BEND
PRELIMINARY PLAT
2/10/2022
SHEET 3 OF 5

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123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
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ca# 1460 exp. date 6/30/2023

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

ISSUE LOG		
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 80'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETAILED PRELIMINARY PLAT 2

C04

04 OF 29

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:53:05 PM

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_FINAL_PLAT.dwg

Grading Notes

1. ALL GRADING SHALL MEET OR EXCEED THE COUNTY CONSTRUCTION STANDARDS AND MUNICIPAL POLICY.
2. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
3. TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
4. SUBGRADE STABILIZATION SHALL BE AT THE DIRECTION OF THE ENGINEER, OR AS SPECIFIED IN SUBSURFACE GEOTECHNICAL REPORT.
5. CIVIL ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
6. UNDERCUTTING OF SOFT SPOTS AND PLACEMENT OF EARTHWORK IS GOVERNED FIRST BY THE GEOTECHNICAL REPORT. OBSERVATION AND TESTING SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOFT SPOTS ARE PROPERLY OVEREXCAVATED AND REPLACED OR STABILIZED.
7. CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
8. STRIPPING, PROOFROLLING, SUBGRADE SCARIFICATION AND COMPACTION, AND FILL CONSTRUCTION IN THE BUILDING AND PAVING AREAS SHALL BE PERFORMED ACCORDING TO THE SUBSURFACE GEOTECHNICAL REPORT. EMBANKMENT BENEATH BUILDING PADS OR FOR PAVING SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT, UNLESS OTHERWISE SPECIFIED THEREIN.
9. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO IMPORT OR EXPORT MATERIAL AS NECESSARY TO ACHIEVE THE GRADES SHOWN ON THE CIVIL ENGINEER'S DOCUMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL IN-PLACE FINAL TRIM AREAS TO CONDITION PRIOR TO PLACING TOPSOIL. TOPSOIL SHALL BE PLACED AND ACCEPTED PRIOR TO THE PLACEMENT OF SOD.
11. FINAL GRADES OF ABOVE SURFACE UTILITIES NOT IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO STORM SEWER MANHOLE LIDS, WATER METER LIDS AND SEWER CLEANOUTS, ARE TO BE ADJUSTED BY THE UTILITY CONTRACTOR TO CONFORM TO LANDSCAPING SOD INSTALLATION.
12. TRANSFORMER PADS AND PEDESTALS ARE TO BE LEVEL AND PLUMB.
13. CARE SHALL BE TAKEN TO ADJUST GAS METERS AND MANIFOLDS SO AS TO APPEAR CORRECTLY POSITIONED.
14. GENERAL CONTRACTOR SHALL MONITOR INSTALLATION OF SERVICE PEDESTALS, SHALL ACCEPT THE CONDITION OF THE WORK BY OTHERS, AND SHALL BE RESPONSIBLE TO EMPLOY CONTRACTORS AS NECESSARY TO CORRECT POOR WORKMANSHIP.
15. PAVING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
16. CORRECTIVE MEASURES DIRECTED BY THE ENGINEER MAY INCLUDE COMPLETE REMOVAL AND REPLACEMENT AT NO COST TO OWNER IN CASES OF POOR WORKMANSHIP OR UNSATISFACTORY IN-PLACE CONDITIONS.
17. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL STAKING NECESSARY TO INSTALL CONDUITS SUFFICIENT FOR UTILITY AND IRRIGATION SERVICES WHETHER OR NOT SHOWN ON THE CIVIL ENGINEER'S PLANS.
18. CONTRACTOR SHALL BE OBLIGATED TO KEEP DUST AT A MINIMUM AS REQUIRED BY CITY ENGINEER.
19. CONTRACTOR AND ALL RELATED CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO MAINTAIN NORMAL WORKING HOURS IF SIGNIFICANT PUBLIC REQUEST ARE MADE TO THE CITY TO THIS REGARD.
20. CONTRACTOR AND ALL RELATED CONSTRUCTION ACTIVITIES ARE REQUIRED TO MAINTAIN NORMAL NOISE LEVELS AND ALL EQUIPMENT AND VEHICLES ARE REQUIRED TO BE PROPERLY MUFFLED.
21. SITE GRADING IS EXPECTED TO BE PERFORMED IN A MANNER CONSISTENT WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) SUBMITTED FOR THIS PROJECT.

Note

ALL GRADES SHOWN ARE TO THE TOP OF PAVEMENT.

Note

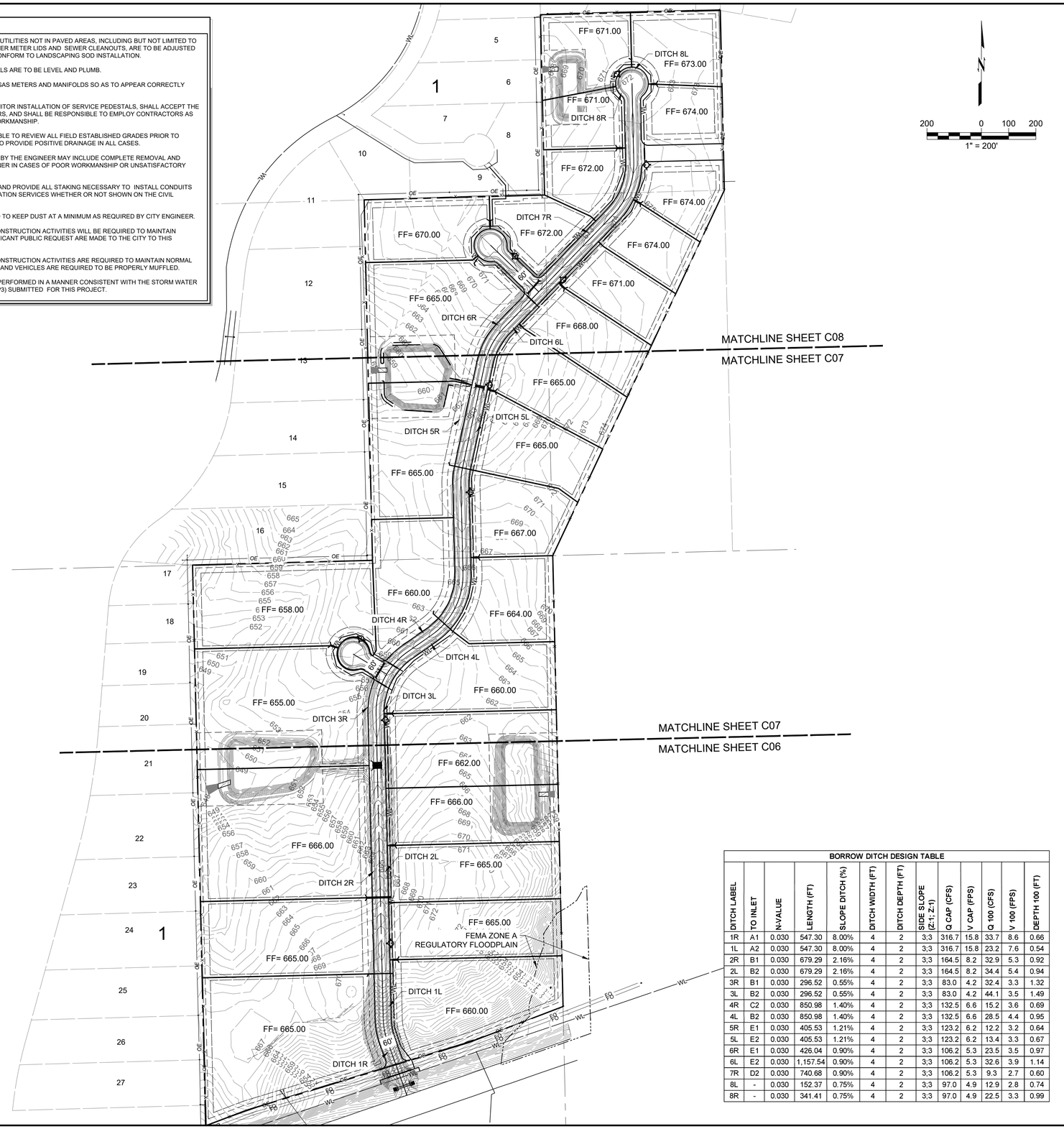
ALL F.F. ELEVATIONS ARE MINIMUM.

Grading Legend

CTRN	CURB TRANSITION
EP	EDGE OF PAVING
EX	EXISTING GROUND
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
GU	GUTTER
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVING
TR	TOP OF RIM
TS	TOP OF SIDEWALK OR STEP
TW	TOP OF WALL FINISH GRADE

Line Legend

- BUILDING LINE
- CENTERLINE
- EASEMENT
- DETENTION POND
- SS — SANITARY SEWER LINE
- W — WATERLINE
- STORM SEWER LINE
- WATER PATHS



BORROW DITCH DESIGN TABLE

DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z:1; Z:1)	Q CAP (CFS)	V CAP (FPS)	Q 100 (CFS)	V 100 (FPS)	DEPTH 100 (FT)
1R	A1	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	33.7	8.6	0.66
1L	A2	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	23.2	7.6	0.54
2R	B1	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	32.9	5.3	0.92
2L	B2	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	34.4	5.4	0.94
3R	B1	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	32.4	3.3	1.32
3L	B2	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	44.1	3.5	1.49
4R	C2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	15.2	3.6	0.69
4L	B2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	28.5	4.4	0.95
5R	E1	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	12.2	3.2	0.64
5L	E2	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	13.4	3.3	0.67
6R	E1	0.030	426.04	0.90%	4	2	3;3	106.2	5.3	23.5	3.5	0.97
6L	E2	0.030	1,157.54	0.90%	4	2	3;3	106.2	5.3	32.6	3.9	1.14
7R	D2	0.030	740.68	0.90%	4	2	3;3	106.2	5.3	9.3	2.7	0.60
8L	-	0.030	152.37	0.75%	4	2	3;3	97.0	4.9	12.9	2.8	0.74
8R	-	0.030	341.41	0.75%	4	2	3;3	97.0	4.9	22.5	3.3	0.99

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ca# 1460 exp. date 6/30/2023

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ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21611
OKLAHOMA

8-4-2022

ISSUE LOG

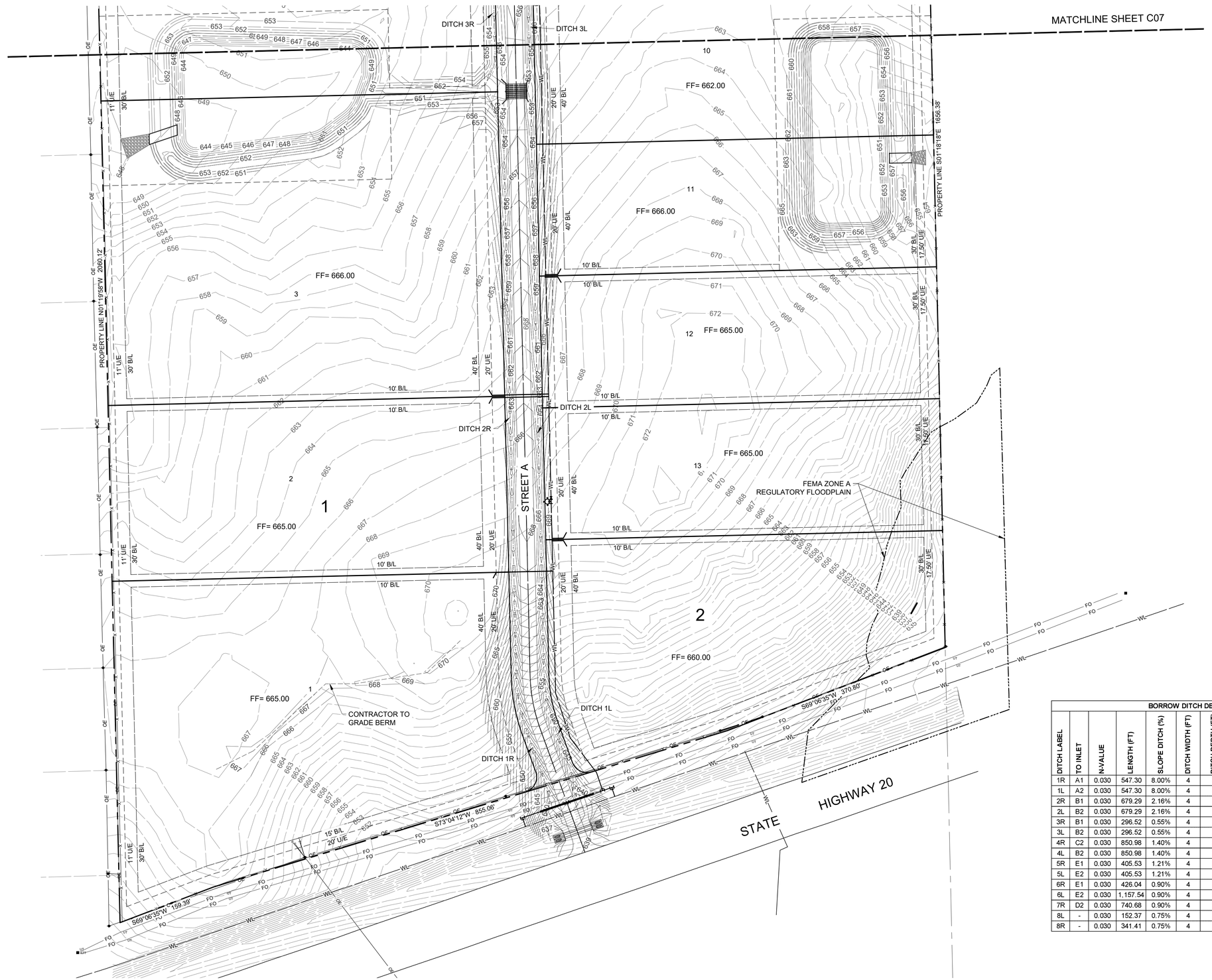
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=200'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

OVERALL GRADING PLAN

C05

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_GRADING PLAN.dwg PLOT:8/4/2022 12:53:15 PM ORIG SIZE:22"X34"



80 0 40 80
1" = 80'

BORROW DITCH DESIGN TABLE												
DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z:1; Z:1)	Q CAP (CFS)	V CAP (FPS)	Q 100 (CFS)	V 100 (FPS)	DEPTH 100 (FT)
1R	A1	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	33.7	8.6	0.66
1L	A2	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	23.2	7.6	0.54
2R	B1	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	32.9	5.3	0.92
2L	B2	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	34.4	5.4	0.94
3R	B1	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	32.4	3.3	1.32
3L	B2	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	44.1	3.5	1.49
4R	C2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	15.2	3.6	0.69
4L	B2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	28.5	4.4	0.95
5R	E1	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	12.2	3.2	0.64
5L	E2	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	13.4	3.3	0.67
6R	E1	0.030	426.04	0.90%	4	2	3;3	106.2	5.3	23.5	3.5	0.97
6L	E2	0.030	1,157.54	0.90%	4	2	3;3	106.2	5.3	32.6	3.9	1.14
7R	D2	0.030	740.68	0.90%	4	2	3;3	106.2	5.3	9.3	2.7	0.60
8L	-	0.030	152.37	0.75%	4	2	3;3	97.0	4.9	12.9	2.8	0.74
8R	-	0.030	341.41	0.75%	4	2	3;3	97.0	4.9	22.5	3.3	0.99

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HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21611
OKLAHOMA
8-4-2022

ISSUE LOG		
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 80'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETAILED GRADING PLAN 1

C06

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212 GRADING PLAN.dwg PLOT:8/4/2022 12:53:19 PM ORIG SIZE:22"X34"

BORROW DITCH DESIGN TABLE												
DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z:1; Z:1)	Q CAP (CFS)	V CAP (FPS)	Q 100 (CFS)	V 100 (FPS)	DEPTH 100 (FT)
1R	A1	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	33.7	8.6	0.66
1L	A2	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	23.2	7.6	0.54
2R	B1	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	32.9	5.3	0.92
2L	B2	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	34.4	5.4	0.94
3R	B1	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	32.4	3.3	1.32
3L	B2	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	44.1	3.5	1.49
4R	C2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	15.2	3.6	0.69
4L	B2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	28.5	4.4	0.95
5R	E1	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	12.2	3.2	0.64
5L	E2	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	13.4	3.3	0.67
6R	E1	0.030	426.04	0.90%	4	2	3;3	106.2	5.3	23.5	3.5	0.97
6L	E2	0.030	1,157.54	0.90%	4	2	3;3	106.2	5.3	32.6	3.9	1.14
7R	D2	0.030	740.68	0.90%	4	2	3;3	106.2	5.3	9.3	2.7	0.60
8L	-	0.030	152.37	0.75%	4	2	3;3	97.0	4.9	12.9	2.8	0.74
8R	-	0.030	341.41	0.75%	4	2	3;3	97.0	4.9	22.5	3.3	0.99

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ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21511
OKLAHOMA

8-4-2022

ISSUE LOG		
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 80'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETAILED GRADING PLAN 2

C07

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BORROW DITCH DESIGN TABLE													
DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z:1; Z:1)	Q CAP (CFS)	V CAP (FPS)	Q 100 (CFS)	V 100 (FPS)	DEPTH 100 (FT)
1R	A1	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	33.7	8.6	0.66
1L	A2	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	23.2	7.6	0.54
2R	B1	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	32.9	5.3	0.92
2L	B2	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	34.4	5.4	0.94
3R	B1	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	32.4	3.3	1.32
3L	B2	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	44.1	3.5	1.49
4R	C2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	15.2	3.6	0.69
4L	B2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	28.5	4.4	0.95
5R	E1	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	12.2	3.2	0.64
5L	E2	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	13.4	3.3	0.67
6R	E1	0.030	426.04	0.90%	4	2	3;3	106.2	5.3	23.5	3.5	0.97
6L	E2	0.030	1,157.54	0.90%	4	2	3;3	106.2	5.3	32.6	3.9	1.14
7R	D2	0.030	740.68	0.90%	4	2	3;3	106.2	5.3	9.3	2.7	0.60
8L	-	0.030	152.37	0.75%	4	2	3;3	97.0	4.9	12.9	2.8	0.74
8R	-	0.030	341.41	0.75%	4	2	3;3	97.0	4.9	22.5	3.3	0.99

80 0 40 80
1" = 80'

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:53:29 PM

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ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETAILED GRADING PLAN 3

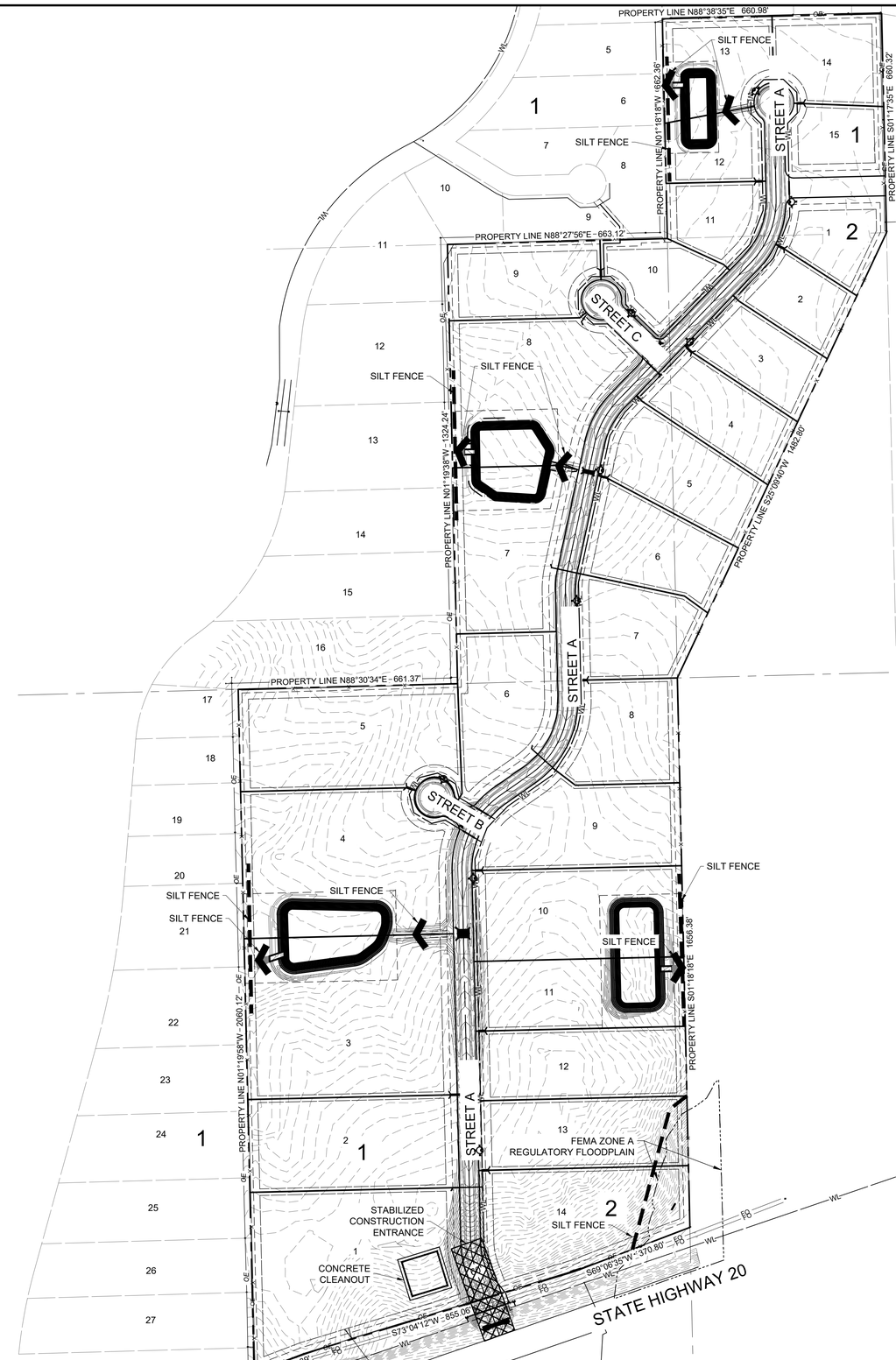
C08

Erosion Control Notes:

1. ALL GRADING AND EROSION CONTROL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNTY STANDARD CONSTRUCTION SPECIFICATIONS.
2. ALL EROSION CONTROL CONSTRUCTION SHALL BE INSPECTED BY THE EROSION CONTROL CONTRACTOR, IN ACCORDANCE WITH THE SP3 (7.3) AND EROSION CONTROL PLANS.
3. EROSION CONTROL SHALL START WITH INITIAL CONSTRUCTION AND BE PRACTICED THROUGHOUT THE PROJECT.
4. SILT FENCES SHALL BE CONSTRUCTED ADJACENT TO ALL DRAINAGE-WAYS, AND IN ALL AREAS THAT WILL ERODE INTO THE STORM SEWER SYSTEM.
5. WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR 14 DAYS, THE DISTURBED AREAS SHALL BE STABILIZED WITH SEED AND MULCH. THE SEED MIX SHALL MATCH THE MIX SPECIFIED ON THE LANDSCAPE PLANS.
6. THE CONTRACTOR SHALL RE-SEED ALL AREAS DISTURBED DURING CONSTRUCTION AND CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDED AREAS UNTIL GROWTH IS ESTABLISHED TO A UNIFORM HEIGHT OF TWO (2) INCHES.
7. THERE ARE NO OFFSITE MATERIAL, WASTE, BORROW, OR EQUIPMENT STORAGE AREAS.
8. THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE UPDATED AS NECESSARY TO REMAIN CONSISTENT WITH ANY CHANGES APPLICABLE TO PROTECT SURFACE WATER RESOURCES IN SEDIMENT EROSION SITE PLANS OR SITE PLANS OR SITE PERMITS, OR STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY STATE OR LOCAL OFFICIALS FOR WHICH THE PERMITEE RECEIVES WRITTEN NOTICE.
9. INSTALL SEDIMENT BARRIERS (SILT FENCES) AROUND ALL STOCKPILE AREAS IN ACCORDANCE WITH THE SP3 (2.3 AND 5.3.3)

Erosion Control Legend

- STABILIZED CONSTRUCTION ENTRANCE (RE: C29/A)
- SILT FENCE (RE:C29/B)
- CONCRETE CLEANOUT (RE: C29/C)
- TEMPORARY FIBER LOGS ODOT STD. TFL-1



200 0 100 200
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MANAGER	•	ANW
DRAWN BY	•	MDS

EROSION CONTROL PLAN

C09

ORIG SIZE 22"X34"

PLOT:8/4/2022 12:53:38 PM

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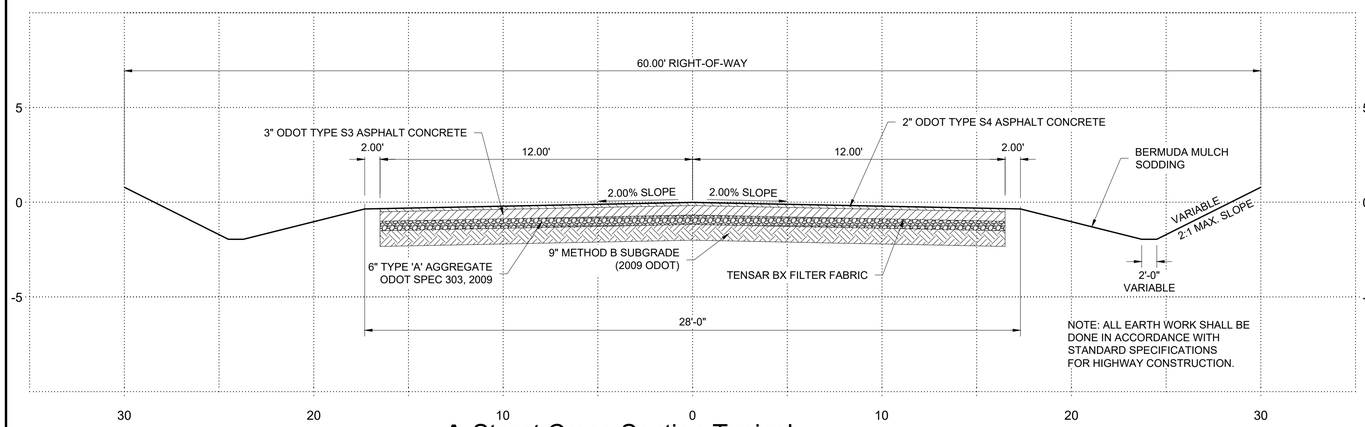


A Street Cross Section Typical

Scale: NONE

Paving Notes

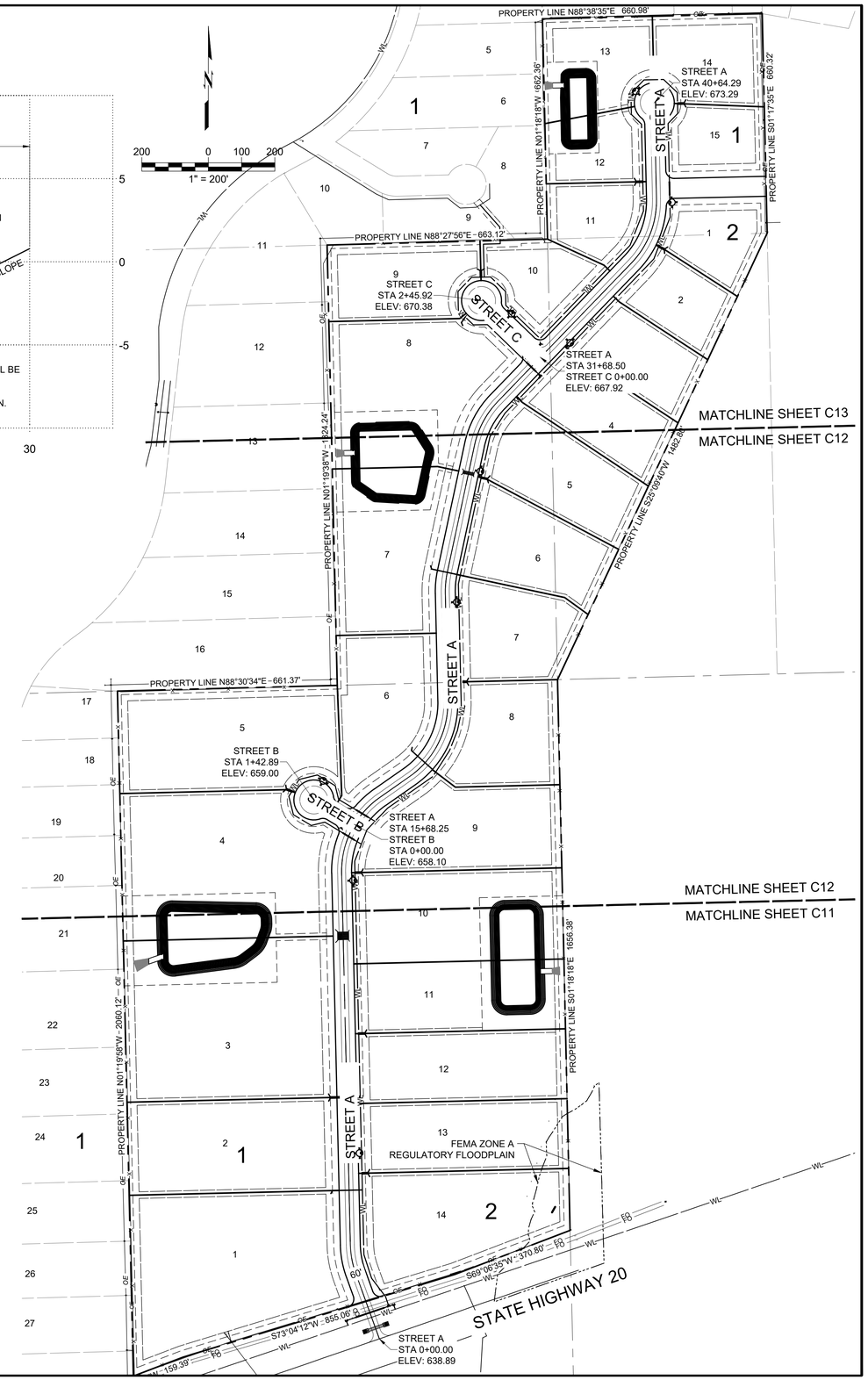
1. THE PAVING CONTRACTOR SHALL NOTIFY THE COUNTY CONTRACT ADMINISTRATOR AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.
2. ALL UTILITY CONSTRUCTION (WATER, SEWER, AND STORM WATER) SHALL BE COMPLETED PRIOR TO SUBGRADE PREPARATION.
3. SUBGRADE SHALL BE FREE OF ALL ORGANIC MATTER, TREATED, AND COMPACTED ACCORDING TO THE PLANS AND SPECIFICATIONS.
4. SUBGRADE STABILIZATION SHALL BE AT THE DIRECTION OF THE ENGINEER, OR AS SPECIFIED IN SUBSURFACE GEOTECHNICAL REPORT.
5. PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UNACCEPTABLE SUBGRADE AT ALL UTILITY, CABLE OR CONDUIT CROSSINGS.
6. PAVING CONTRACTOR SHALL INSPECT SUBGRADE PRIOR TO COMMENCING WORK; AND, SHALL REPAIR AREAS WHERE GRADE VARIES MORE THAN 0.1 FEET, WHERE DENSITY IS LESS THAN 95% STANDARD PROCTOR OR WHERE SUBGRADE DRAINAGE IS INADEQUATE, AT THE UNIT PRICE BID FOR FINE GRADING IN THE PROPOSAL. SUBGRADE MODIFICATIONS, WHERE REQUIRED, SHALL NOT COMMENCE UNTIL SUBGRADE REPAIRS HAVE BEEN ACCEPTED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
7. SEQUENCE OF CONSTRUCTION FOR STABILIZED SUBGRADES SHALL BE BLUE TOP AND FINE GRADE, LIME OR FLY ASH TREAT AND STABILIZE, AND THEN FINAL FINE GRADING.
8. COMPACTION TESTS SHALL BE TAKEN A MINIMUM OF ONCE EVERY 4,500 SQUARE FEET FOR EACH EIGHT (8) INCH LIFT OF MATERIAL.
9. SUBGRADES SHALL BE PROOFROLLED IF THE STABILITY OF THE MATERIAL IS QUESTIONED. ALSO, THE SUBGRADE EXPOSED AFTER STRIPPING AND COMPLETING ANY CUTS SHALL BE PROOFROLLED ACCORDING TO THE GEOTECHNICAL REPORT.
10. PORTLAND CEMENT CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3,500 PSI, A SLUMP OF NOT MORE THAN 3", AND SHALL CONTAIN SIX PERCENT (6%) AIR + OR - 1%.
11. ASPHALTIC CONCRETE SHALL HAVE DENSITY OF NOT LESS THAN 94% AND NOT MORE THAN 98%, AND HAVE STABILITY OF NOT LESS THAN 40%.
12. THE CONTRACTOR SHALL FURNISH THE FOLLOWING TESTING SERVICES BY A REPUTABLE INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER'S REPRESENTATIVE:
    - 12.1 FIELD DENSITY TESTS OF EMBANKMENT, SUBGRADE, OR BASE, AT LOCATIONS SPECIFIED BY THE INSPECTOR.
    - 12.2 PLASTICITY TESTS OF THE SUBGRADE AT LOCATIONS SPECIFIED BY THE ENGINEER.
    - 12.3 MOISTURE DENSITY CURVES FOR MATERIAL TO BE USED FOR EMBANKMENT OR SUBGRADE CONSTRUCTION.
    - 12.4 MIX DESIGNS FOR PORTLAND CEMENT CONCRETE AND ASPHALTIC CONCRETE.
    - 12.5 AGGREGATE GRADATION TESTS.
    - 12.6 STABILITY, DENSITY, BITUMEN CONTENT AND GRADATION TESTS OF ASPHALTIC CONCRETE EVERY 200 TONS OR DAILY WHICHEVER IS LESS.
    - 12.7 COMPRESSION TEST OF CONCRETE CYLINDERS AT SEVEN (7) AND TWENTY-EIGHT (28) DAYS WITH ONE (1) OF EACH TESTS CONDUCTED FOR EVERY 100 CUBIC YARDS PLACED.
    - 12.8 ONE CORE SAMPLE, AT A LOCATION SPECIFIED BY THE INSPECTOR FOR EVERY 8,000 SQUARE FEET OF PAVEMENT.
13. THE CONTRACTOR SHALL FURNISH CERTIFICATION FROM THE MANUFACTURER THAT ALL MATERIALS MEET APPLICABLE SPECIFICATIONS. COPIES OF MATERIAL CERTIFICATION SHALL BE FURNISHED TO THE DEVELOPER PRIOR TO INSTALLATION OR INCORPORATION OF MATERIAL IN THE WORK.
14. THE PAVING CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO GRADE AFTER PAVING HAS BEEN COMPLETED.
15. PAVEMENT SECTIONS PER GEOTECHNICAL REPORT PREPARED BY GFAC ENGINEERING, INC., DATED MARCH 10, 2017

Line Legend

- BUILDING LINE
- CENTERLINE
- EASEMENT
- DETENTION POND
- SANITARY SEWER LINE
- WL — WATERLINE
- STORM SEWER LINE

Note

RECOMMENDATION FROM THE GEOTECH REPORT SHALL SUPERCEDE THIS TYPICAL SECTION.



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21511
OKLAHOMA

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VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

OVERALL STREET PLAN

C10

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:53:48 PM

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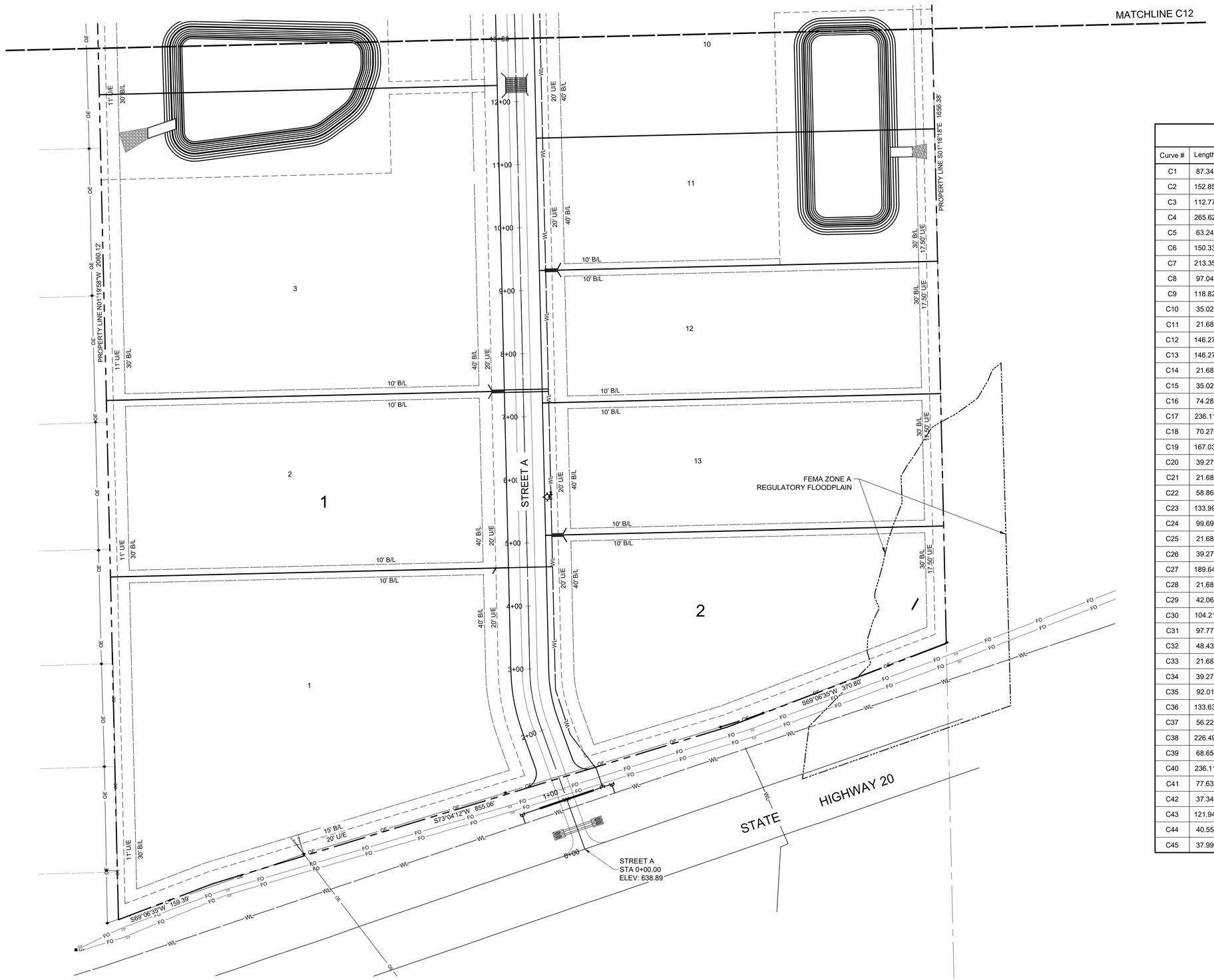

80 0 40 80
1" = 80'

CURVE DATA					
Curve #	Length	Radius	Delta Angle	Chord Length	Chord Bearing
C1	87.34	270.00	18.53	86.96	S10° 36' 26"E
C2	152.85	270.00	32.44	150.82	S14° 52' 41"W
C3	112.77	270.00	23.93	111.95	S43° 03' 41"W
C4	265.62	270.00	56.37	255.04	S26° 50' 35"W
C5	63.24	270.00	13.42	63.10	S5° 22' 12"W
C6	150.33	270.00	31.90	148.39	S28° 01' 50"W
C7	213.35	270.00	45.27	207.84	S21° 20' 39"W
C8	97.04	300.00	18.53	96.62	N10° 36' 26"W
C9	118.82	300.00	22.69	118.05	N10° 00' 23"E
C10	35.02	25.00	80.26	32.23	N18° 46' 31"W
C11	21.68	25.00	49.68	21.00	N83° 44' 37"W
C12	146.27	60.00	139.68	112.65	N38° 44' 37"W
C13	146.27	60.00	139.68	112.65	S79° 03' 50"E
C14	21.68	25.00	49.68	21.00	S34° 03' 50"E
C15	35.02	25.00	80.26	32.23	N80° 58' 04"E
C16	74.28	300.00	14.19	74.09	N47° 55' 59"E
C17	236.11	240.00	56.37	226.70	N26° 50' 35"E
C18	70.27	300.00	13.42	70.11	N5° 22' 12"E
C19	167.03	300.00	31.90	164.88	N28° 01' 50"E
C20	39.27	25.00	90.00	35.36	N1° 01' 08"W
C21	21.68	25.00	49.68	21.00	N70° 51' 32"W
C22	58.86	60.00	56.21	56.53	N67° 35' 34"W
C23	133.99	60.00	127.95	107.83	N24° 29' 21"E
C24	99.69	60.00	95.20	88.61	S43° 56' 12"E
C25	21.68	25.00	49.68	21.00	S21° 10' 45"E
C26	39.27	25.00	90.00	35.36	N88° 58' 52"E
C27	189.64	240.00	45.27	184.75	N21° 20' 39"E
C28	21.68	25.00	49.68	21.00	N26° 07' 58"W
C29	42.06	60.00	40.16	41.20	N30° 53' 28"W
C30	104.21	60.00	99.52	91.60	N38° 56' 56"E
C31	97.77	60.00	93.36	87.31	S44° 32' 29"E
C32	48.43	60.00	46.25	47.12	S25° 15' 50"W
C33	21.68	25.00	49.68	21.00	S23° 32' 49"W
C34	39.27	25.00	90.00	35.36	S46° 17' 35"E
C35	92.01	300.00	17.57	91.65	S35° 11' 41"W
C36	133.63	240.00	31.90	131.91	S28° 01' 50"W
C37	56.22	240.00	13.42	56.09	S5° 22' 12"W
C38	226.49	300.00	43.26	221.15	S20° 17' 15"W
C39	68.65	300.00	13.11	68.50	S48° 28' 15"W
C40	236.11	240.00	56.37	226.70	S26° 50' 35"W
C41	77.63	240.00	18.53	77.30	S10° 36' 26"E
C42	37.34	25.00	85.59	33.97	S45° 54' 47"W
C43	121.94	300.00	23.29	121.11	S14° 45' 49"W
C44	40.55	25.00	92.94	36.25	S26° 35' 52"W
C45	37.99	25.00	87.06	34.44	S63° 24' 08"E

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DETAILED STREET PLAN 1

C11

ORIG SIZE 22"X34"

PLOT:8/4/2022 12:53:53 PM

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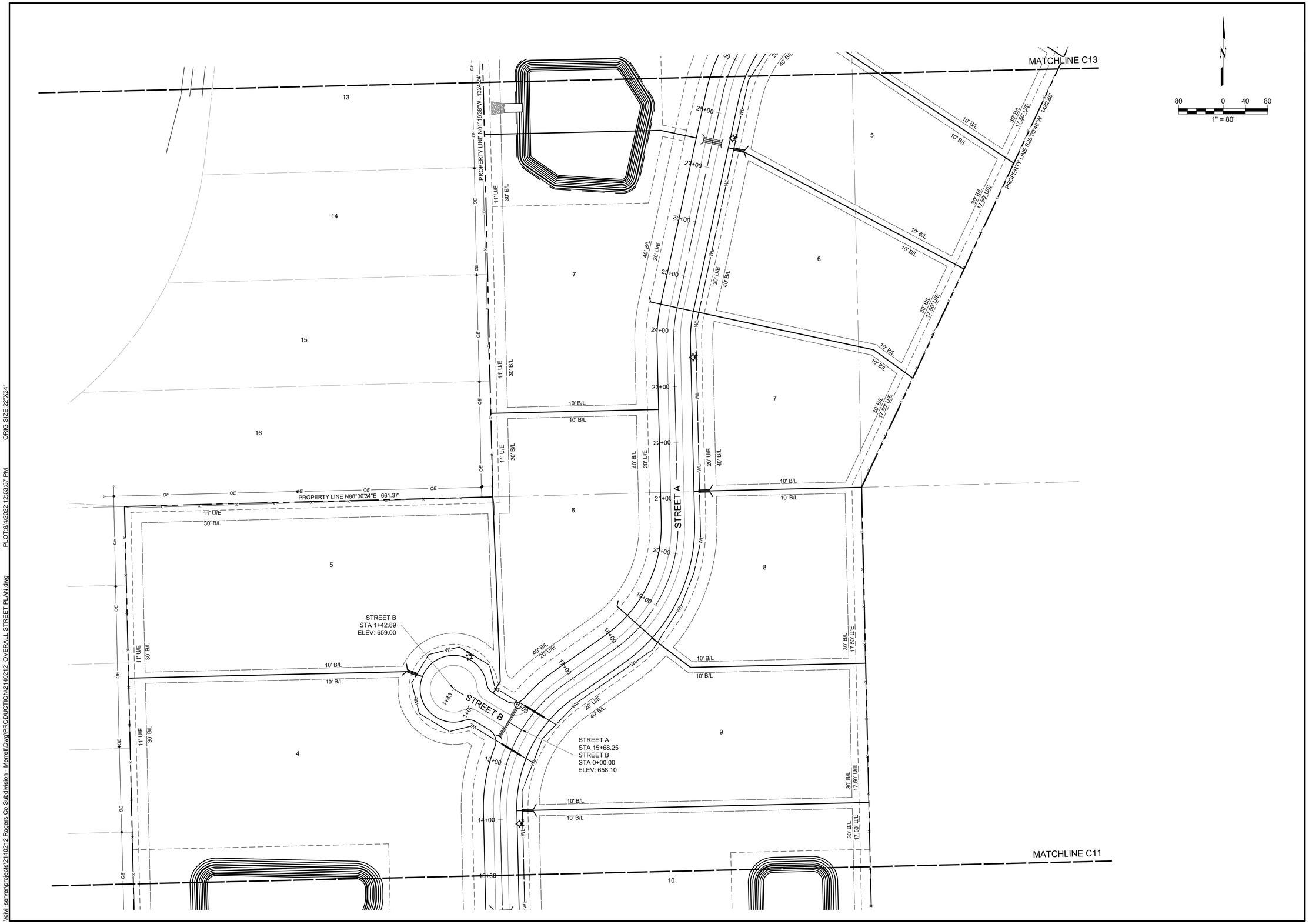

ORIG SIZE 22"X34"

PLOT:8/4/2022 12:53:57 PM

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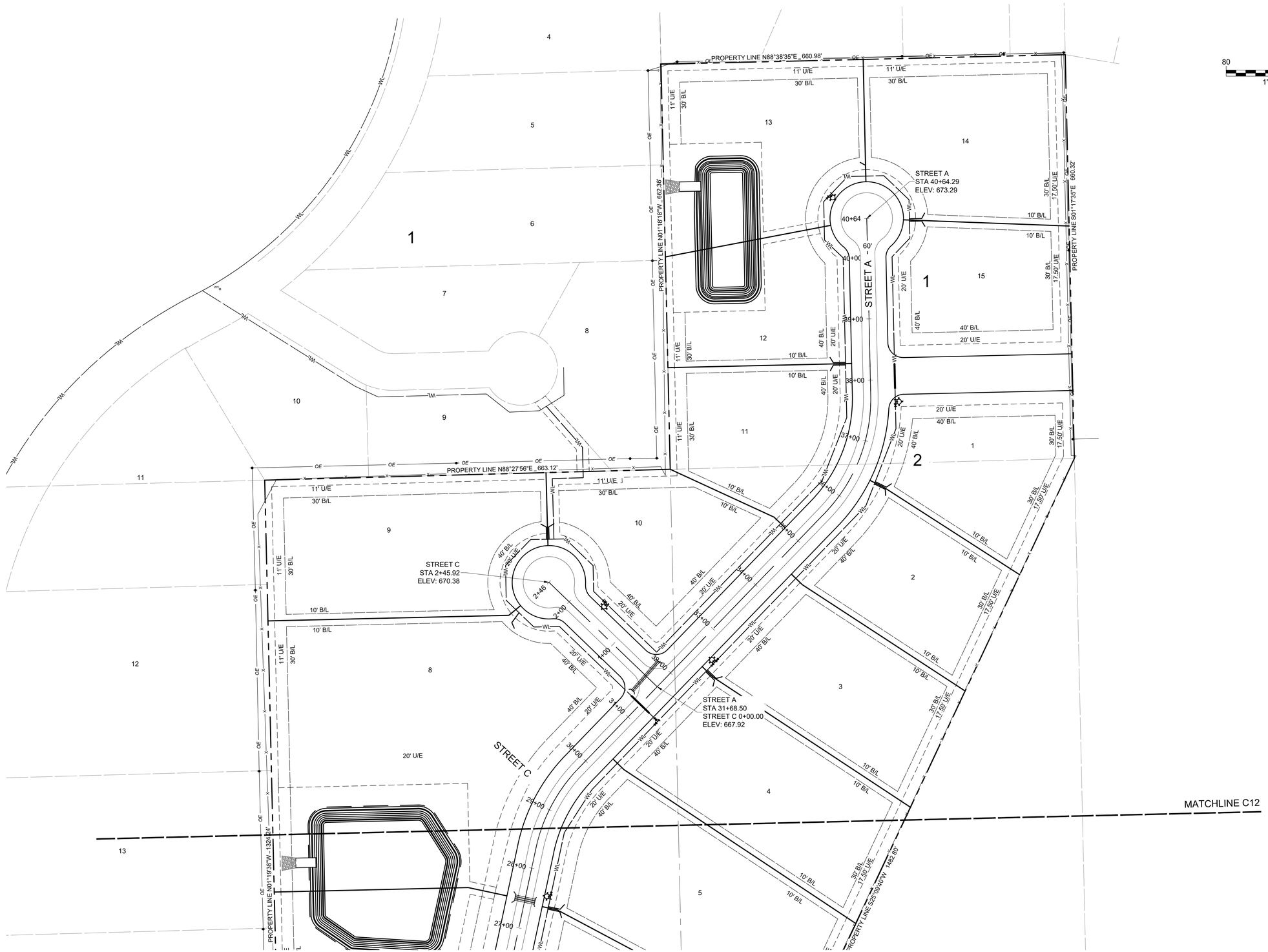
DETAILED STREET PLAN 2

C12



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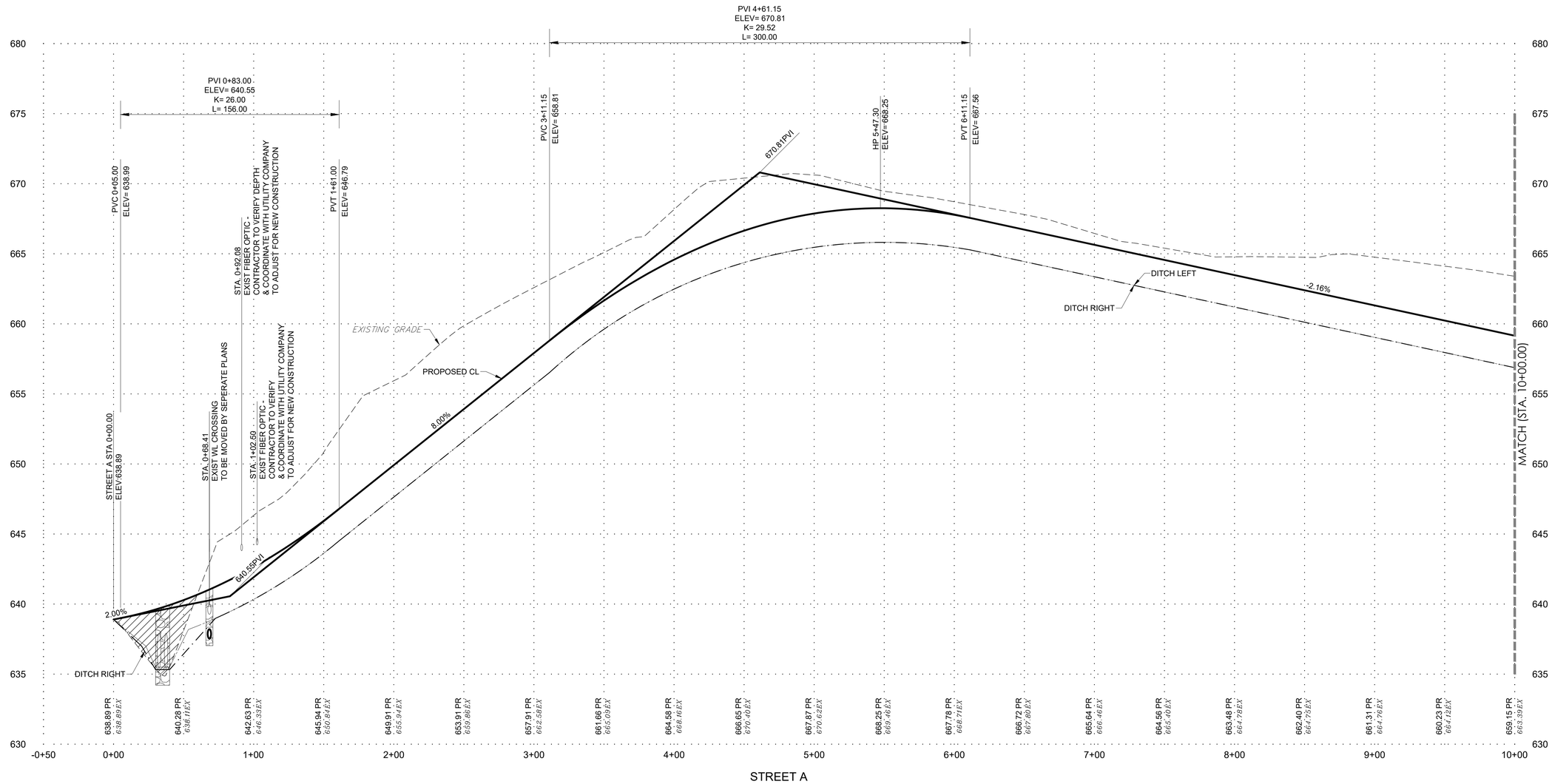
DETAILED STREET PLAN 3

C13

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212. OVERALL STREET PLAN.dwg PLOT:8/4/2022 12:54:02 PM ORIG SIZE:22"X34"



AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.

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BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21611
OKLAHOMA

8-4-2022

ISSUE LOG

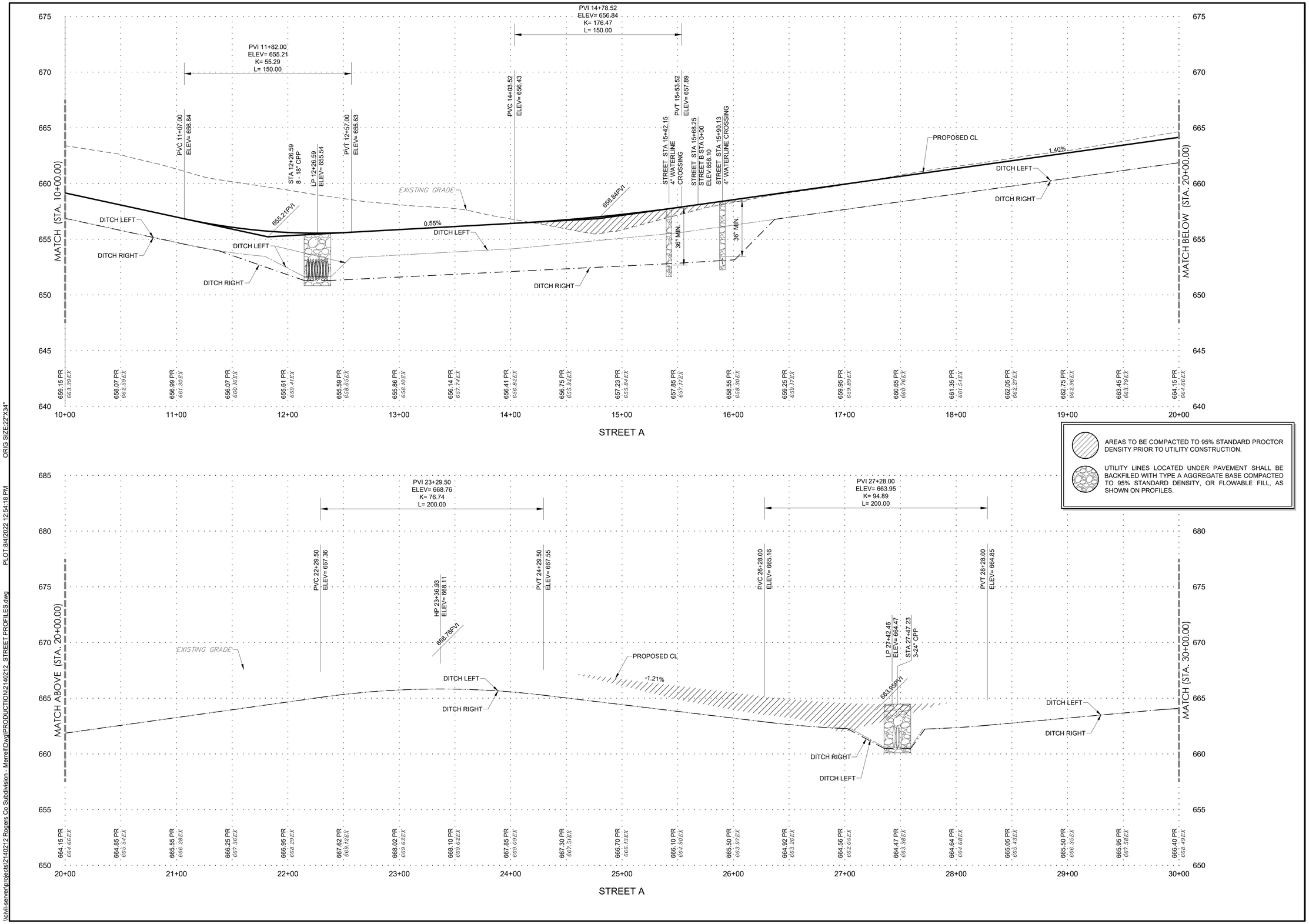
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 40'
VERT SCALE	•	1"=4'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

STREET PROFILES 1

C14

\\civil-server\projects\2140212 Rogers Co. Subdivision - Merrell\Dwg\PRODUCTION\2140212_STREET PROFILES.dwg PLOT:8/4/2022 12:54:13 PM ORIG SIZE:22"X34"



AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:54:18 PM

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OKLAHOMA

8-4-2022

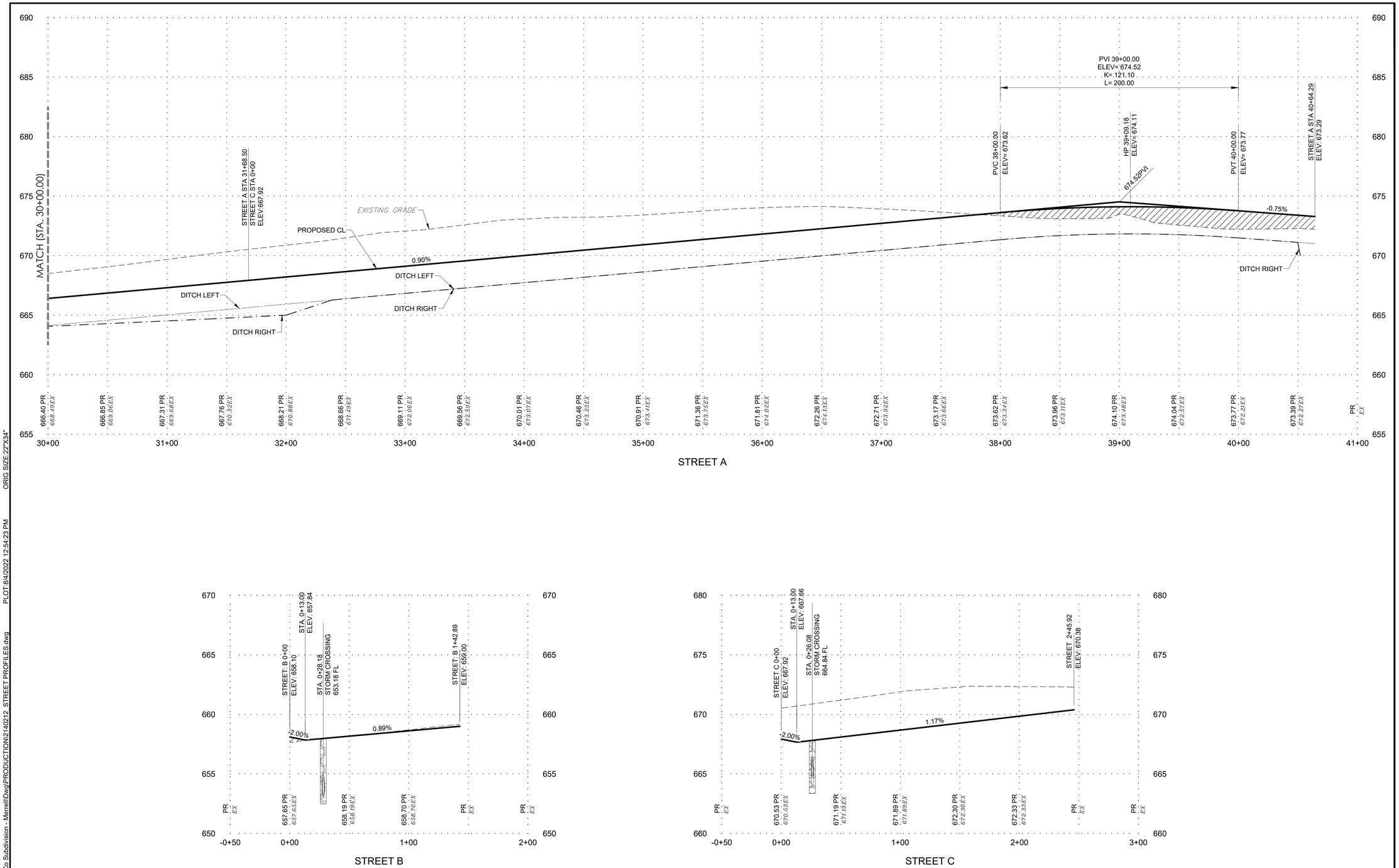
ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 40'
VERT SCALE	•	1"=4'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

STREET PROFILES 2

C15



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ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21811
OKLAHOMA

8-4-2022

ISSUE LOG

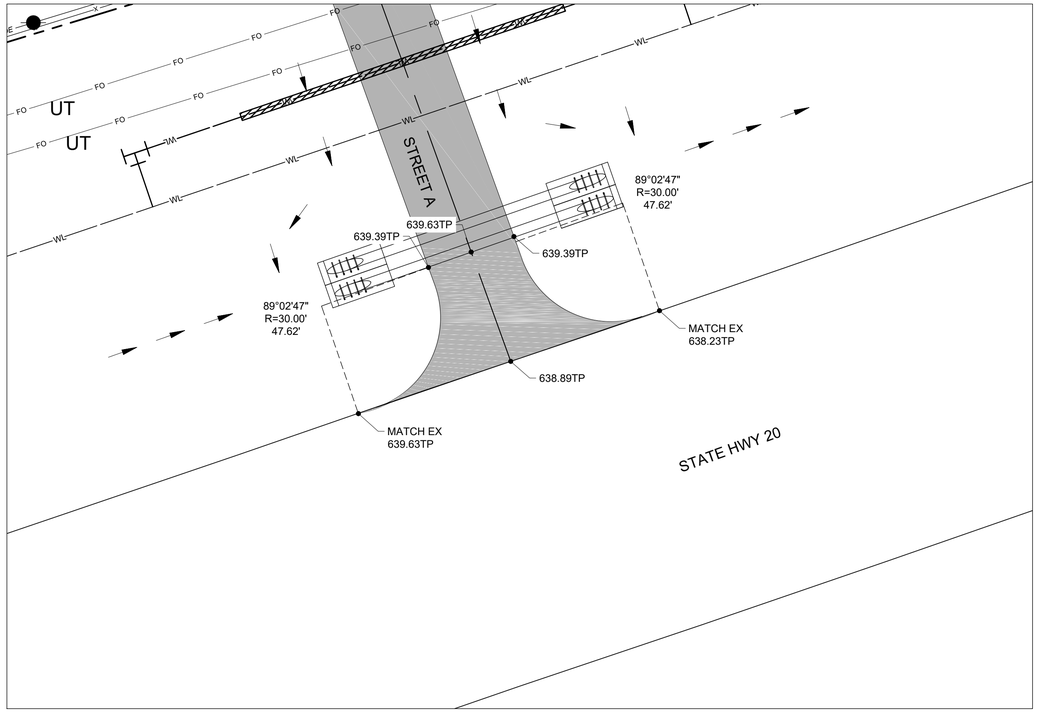
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 40'
VERT SCALE	•	1"=4'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

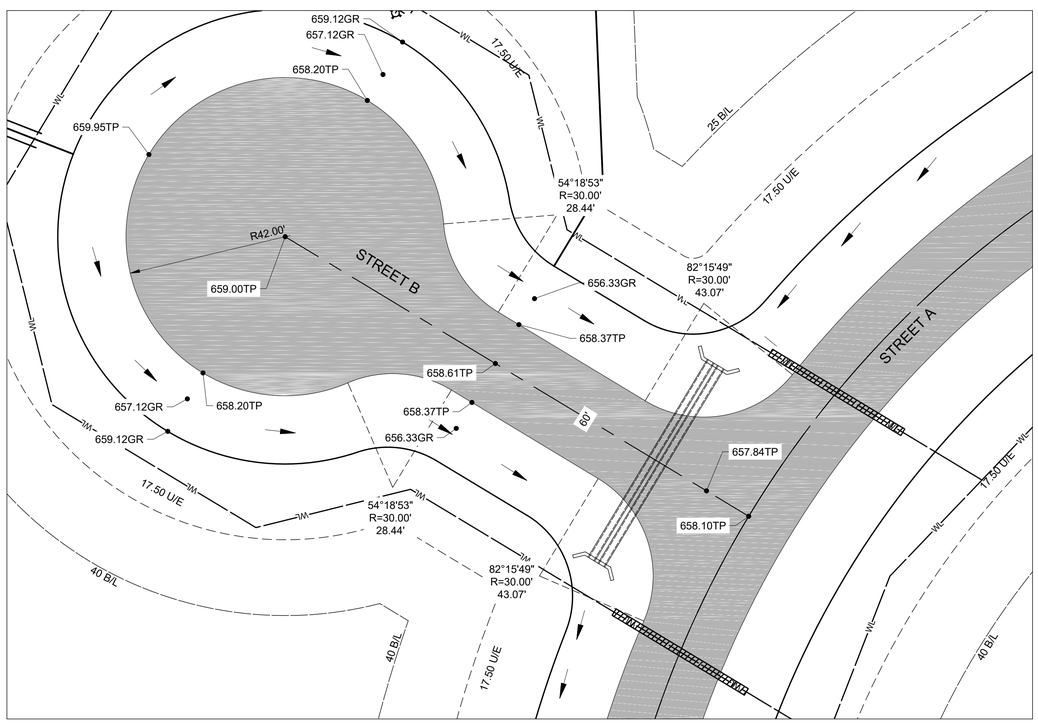
STREET PROFILES 3

C16

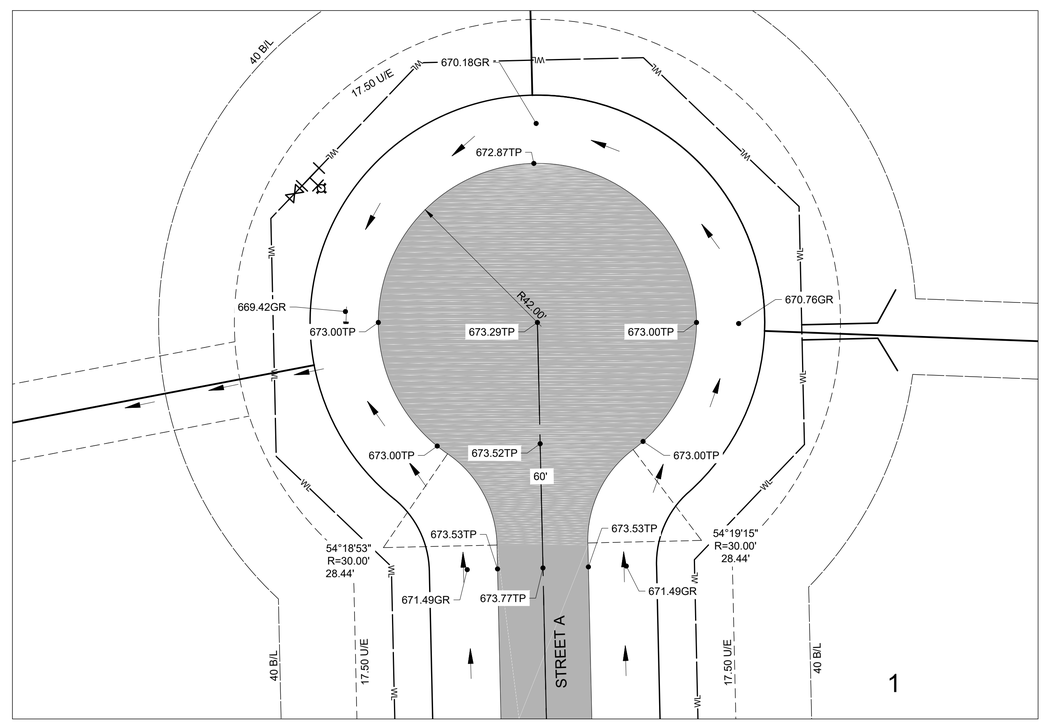
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_STREET PROFILES.dwg PLOT:8/4/2022 12:54:23 PM ORIG SIZE:22"X34"



A Intersection - 1
Scale: 1" = 20'



B Intersection - 2
Scale: 1" = 20'



C Intersection - 3
Scale: 1" = 20'

CURVE DATA
FLOW DIRECTION

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HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

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A. NICOLE WATTS
21511
OKLAHOMA

8-4-2022

ISSUE LOG

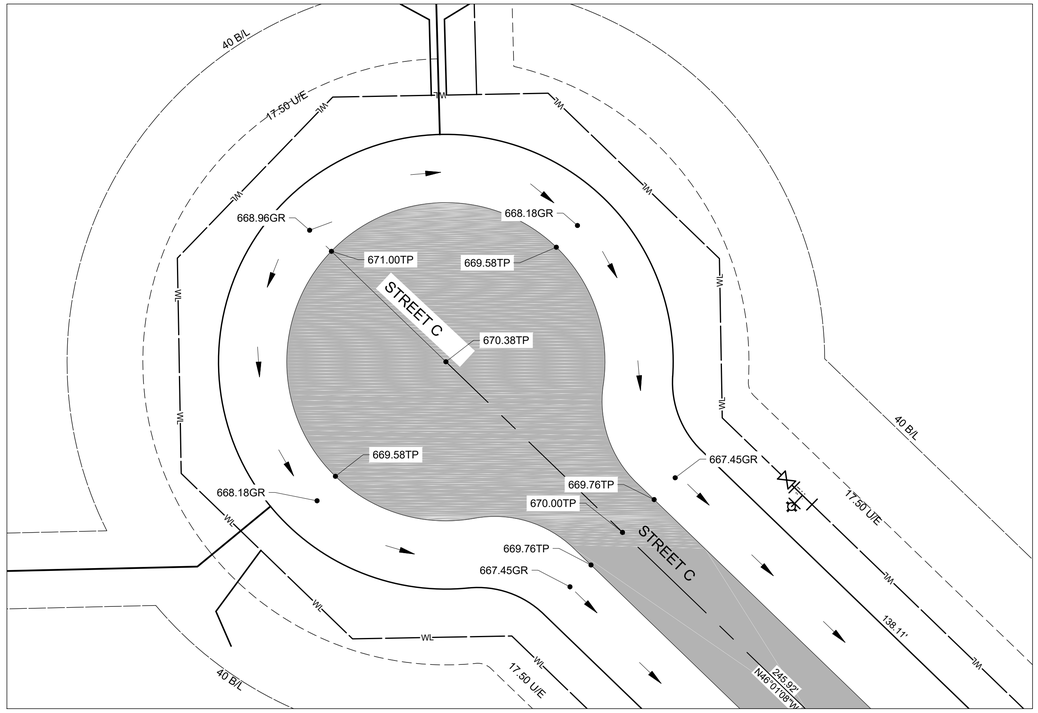
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 20'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

INTERSECTION DETAILS 1

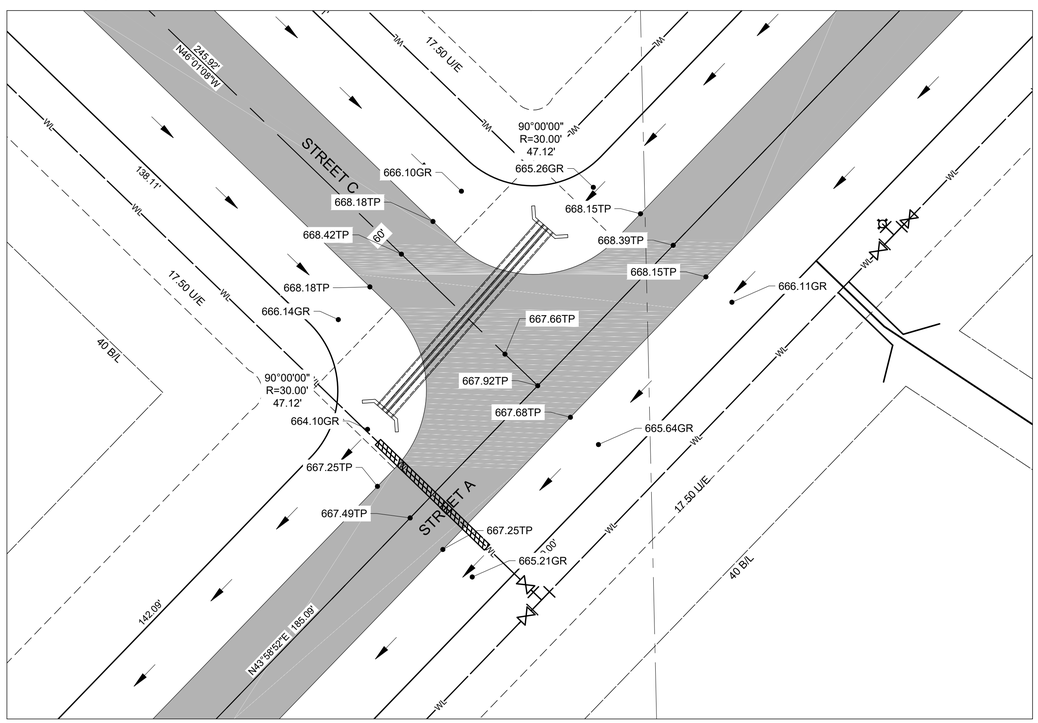
C17

ORIG SIZE 22"X34"
PLOT 8/4/2022 12:54:36 PM
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_INTERSECTIONS DETAILS.dwg



D Intersection - 4

Scale: 1" = 20'



E Intersection - 5

CURVE DATA

FLOW DIRECTION

ORIG SIZE:22"X34"

PLOT:8/4/2022 12:54:38 PM

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_INTERSECTIONS DETAILS.dwg

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OKLAHOMA

8-4-2022

ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"= 20'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

INTERSECTION DETAILS 2

C18

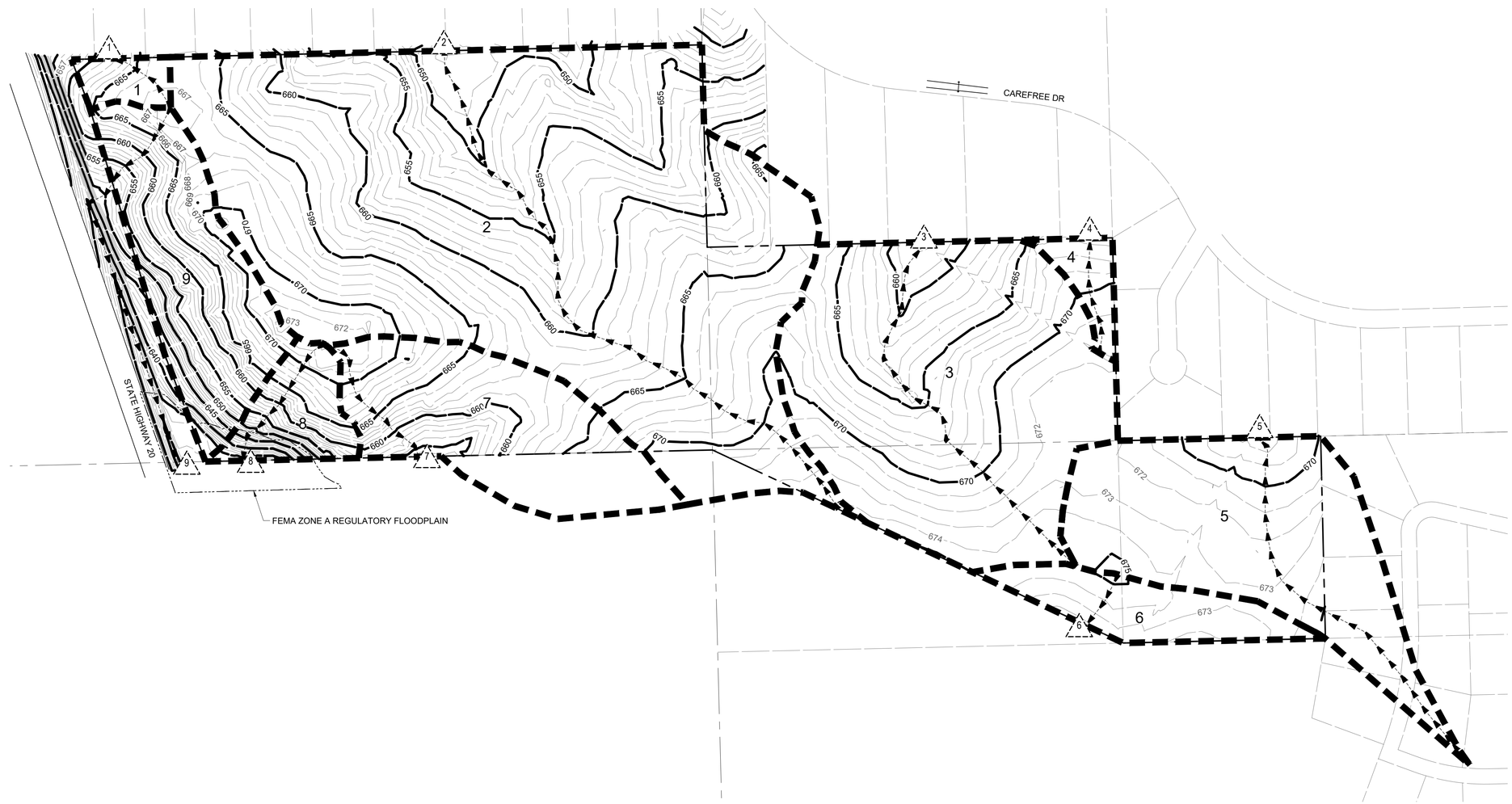
Legend

	EXISTING	PROPOSED
INLET	a	a
JUNCTION	1	1
OUTLET	A	A
POINT OF ANALYSIS	1	1
DRAINAGE AREA BOUNDARY		
DRAINAGE PATH		

EXISTING DRAINAGE AREA SUMMARY (SCS)

SUB BASIN	AREA (SQ. MI)	AREA (AC)	COMPOSITE CN	REACH LENGTH (FT) TR-55	REACH SLOPE (%) TR-55	LAG TIME (MIN)	100 YR Q (CFS)	TIME TO PEAK
1	0.0016	1.0400	79	284	2.29%	10.93	5.8	12:12
2	0.0728	46.5900	79	2,119	1.26%	18.35	214.5	12:21
3	0.0329	21.0600	79	1,360	1.21%	23.16	86.8	12:26
4	0.0018	1.1800	79	382	1.31%	11.74	6.4	12:13
5	0.0206	13.1600	80	1,378	0.94%	18.45	61.6	12:21
6	0.0055	3.4900	79	198	1.77%	9.16	21.4	12:11
7	0.0143	9.1500	79	513	3.70%	14.77	46.3	12:17
8	0.0042	2.6600	79	480	8.23%	7.18	17.7	12:08
9	0.0128	8.1800	79	1,605	2.40%	10.43	47.6	12:12

200 0 100 200
1" = 200'



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21511
OKLAHOMA

8-4-2022

ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=300'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

EXISTING DRAINAGE AREA MAP

C19

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DRAINAGE AREA MAP.dwg PLOT:8/4/2022 12:54:48 PM ORIG SIZE:22"X34"

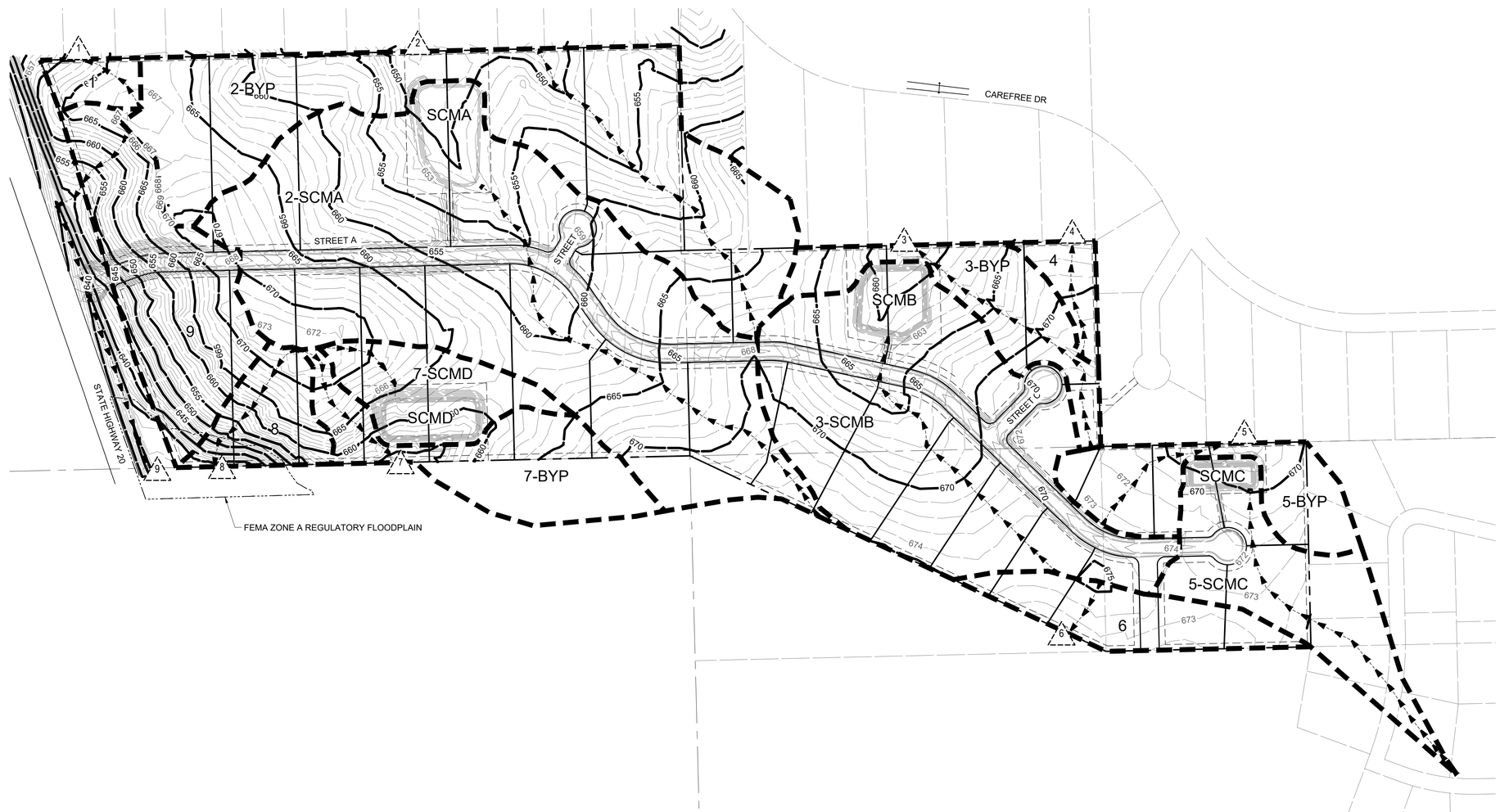
Legend

	EXISTING	PROPOSED
INLET	a	a
JUNCTION	1	1
OUTLET	A	A
POINT OF ANALYSIS	1	1
DRAINAGE AREA BOUNDARY		
DRAINAGE PATH		

PROPOSED DRAINAGE AREA SUMMARY (SCS)

SUB BASIN	AREA (SQ. MI)	AREA (AC)	COMPOSITE CN	REACH LENGTH (FT) TR-55	REACH SLOPE (%) TR-55	LAG TIME (MIN)	100 YR Q (CFS)	TIME TO PEAK
1	0.0016	1.0400	79	284	2.29%	10.93	5.8	12:12
2-SCMA	0.0453	29.0049	80	1,627	1.55%	16.31	143.1	12:18
2-BYP	0.0281	17.9886	79	1,221	1.72%	13.20	95.4	12:15
3-SCMB	0.0289	18.5029	80	1,029	1.60%	21.78	79.9	12:24
3-BYP	0.0069	4.4170	79	941	1.59%	17.53	20.8	12:20
4	0.0018	1.1799	79	382	1.31%	11.74	6.4	12:13
5-SCMC	0.0106	6.7738	81	1,205	1.04%	16.99	33.4	12:19
5-BYP	0.0070	4.5039	79	135	3.71%	13.62	23.5	12:15
6	0.0055	3.4903	79	198	1.77%	9.16	21.4	12:11
7-SCMD	0.0057	3.6762	80	342	4.68%	10.88	21.2	12:12
7-BYP	0.0086	5.4747	79	513	3.70%	14.77	27.9	12:17
8	0.0042	2.6651	79	480	8.23%	7.18	17.7	12:08
9	0.0122	7.7914	80	1,605	2.40%	10.43	46.1	12:12

200 0 100 200
1" = 200'



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1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=300'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

PROPOSED DRAINAGE AREA MAP

C20

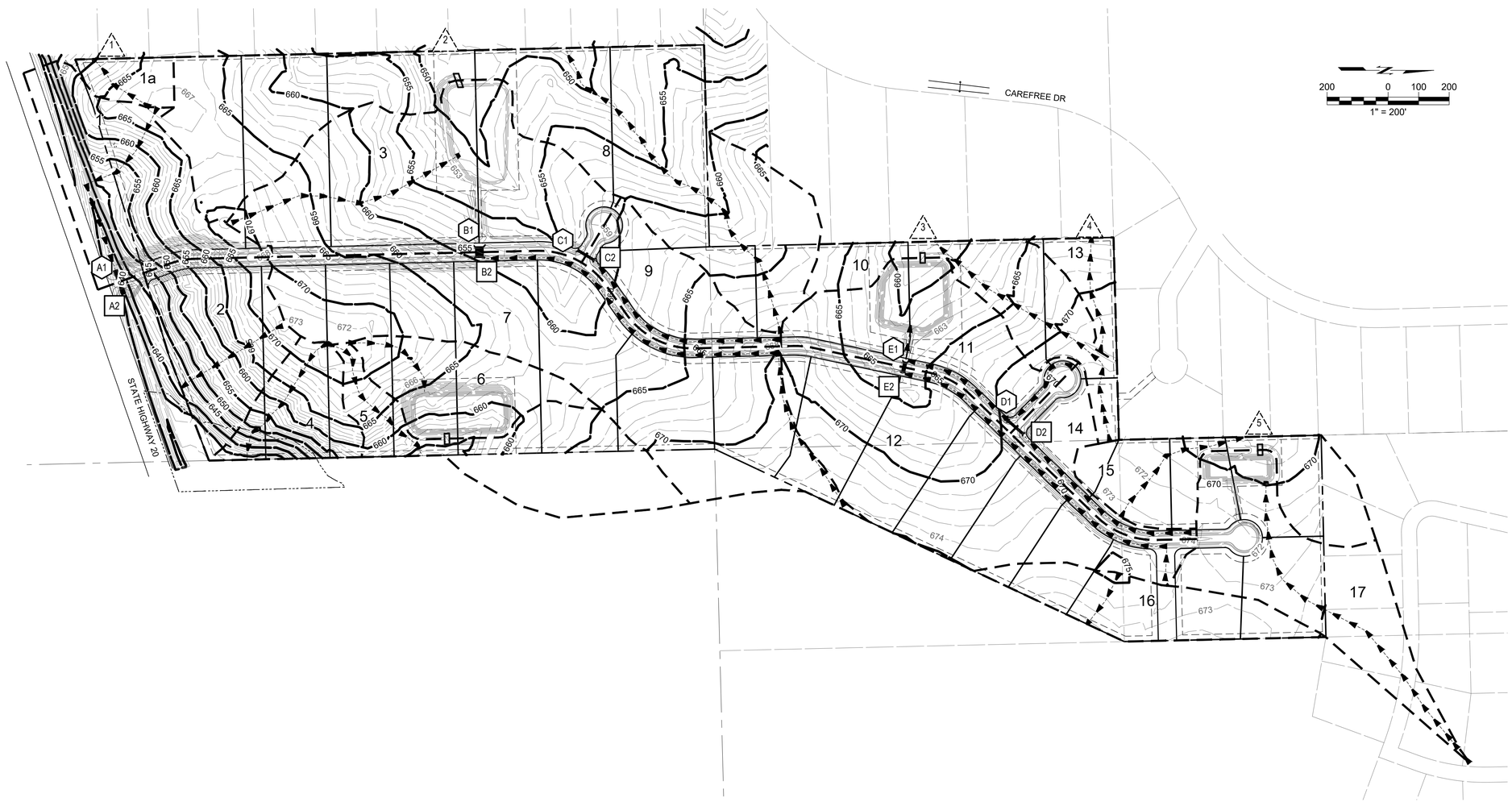
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DRAINAGE AREA MAP.dwg PLOT:8/4/2022 12:54:52 PM ORIG SIZE:22"X34"

Legend

	EXISTING	PROPOSED
INLET	a	a
JUNCTION	1	1
OUTLET	A	A
DRAINAGE AREA	1	
DRAINAGE AREA BOUNDARY		
DRAINAGE PATH		

INLET DESIGN TABLE (RATIONAL)

DRAINAGE AREA BASIN	INLET NO.	DRAINAGE AREA (SF)	DRAINAGE AREA (ACRES)	PAVED AREA (SF)	BUILDING PAD (SF)	GRASS AREA (SF)	RATIONAL "C"	REACH GRASS (FEET)	SLOPE GRASS (%)	VELOCITY GRASS (FPS)	REACH PAVING (FEET)	SLOPE PAVING (%)	VELOCITY PAVING (FPS)	TOTAL Tc (MIN)	I 100 (IN/HR)	Q 100 (CFS)	% SLOPE AT INLET	SUM Q 100 AT INLET (CFS)	D 100 INLET (FEET)	MAX DEPTH AT INLET (FEET)	INLET MAX CAPACITY (CFS)	Q 100 BYPASS (CFS)	TO STRUCTURE	CLOGGING FACTOR	INLET DESIGN
1	A1	271,463	6.81	37,328	7,500	226,635	0.48	395	6.6%	1.79	300	1.3%	1.73	6.6	10.3	33.73									DRAINS TO CULVERT
1a	-	42,819	0.98	0	0	42,819	0.40	250	2.8%	1.16	-	-	-	3.6	11.6	4.56									DRAINS TO THE POA-1
2	-	198,280	4.55	5,118	7,500	185,662	0.43	390	8.2%	1.99	-	-	-	3.3	11.7	23.16									DRAINS TO CHANNEL ALONG HWY 20
3	-	484,721	11.13	16,346	22,500	445,875	0.44	805	2.3%	1.04	-	-	-	12.8	8.4	41.20									DRAINS TO DETENTION POND
4	-	116,092	2.67	0	3,750	112,342	0.42	480	8.1%	1.98	-	-	-	4.0	11.4	12.61									DRAINS TO THE SE OF PROPERTY
5	-	238,479	5.47	0	0	238,479	0.40	415	4.6%	1.49	-	-	-	4.6	11.1	24.28									DRAINS TO THE EAST OF PROPERTY
6	-	160,134	3.68	0	0	160,134	0.40	340	2.4%	1.07	-	-	-	5.3	10.8	15.87									DRAINS TO DETENTION POND
7	B2	637,265	14.63	21,490	48,750	567,025	0.46	560	1.3%	0.78	1,095	1.0%	1.50	24.2	6.4	42.65									DRAINS TO CULVERT
8	-	783,111	17.40	0	11,250	771,861	0.41	448	1.6%	0.88	780	1.5%	1.84	15.5	7.8	55.26									DRAINS TO POA-2
9	C2	141,398	3.25	13,222	7,500	120,676	0.48	-	-	-	725	1.0%	1.50	8.1	9.7	15.13									DRAINS TO CULVERT
10	-	192,406	4.42	0	0	192,406	0.40	840	2.0%	0.98	-	-	-	14.2	8.1	14.25									DRAINS TO POA-3
11	-	241,056	5.53	15,350	15,000	210,706	0.47	-	-	-	820	1.0%	1.50	9.1	9.4	24.26									DRAINS TO DETENTION POND
12	E2	487,285	11.19	18,862	37,500	430,923	0.46	115	1.0%	0.70	1,075	1.0%	1.50	14.7	8.0	40.95									DRAINS TO CULVERT
13	-	51,400	1.18	0	0	51,400	0.40	380	1.3%	0.79	-	-	-	8.0	9.8	4.61									DRAINS TO POA-4
14	D2	77,643	1.78	14,150	7,500	55,993	0.55	-	-	-	670	1.0%	1.50	7.4	10.0	9.74									DRAINS TO CULVERT
15	-	192,192	4.50	0	11,250	180,942	0.43	515	1.4%	0.82	-	-	-	10.4	9.0	17.41									DRAINS TO POA-5
16	-	152,036	3.49	0	7,500	144,536	0.42	400	2.0%	0.98	-	-	-	6.8	10.2	15.13									DRAINS TO THE EAST OF PROPERTY
17	-	295,065	6.77	8,375	18,750	267,940	0.45	1,105	1.6%	0.88	-	-	-	20.9	6.8	20.72									DRAINS TO DETENTION POND



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8-4-2022

ISSUE LOG		
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1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=300'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

STORM DRAINAGE AREA MAP

C20a

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Driveway Culvert Summary Table

BLOCK	LOT	SIZE (IN)	SLOPE (%)	Q100 (CFS)	QCAP (CFS)	V100 (FPS)	VCAP (FPS)
1	1	12	0.80	2.85	3.45	4.84	4.39
1	2	12	0.80	1.09	3.45	3.84	4.39
1	3	12	0.80	2.76	3.45	4.85	4.39
1	4	12	0.80	2.09	3.45	4.60	4.39
1	5	12	0.80	0.55	3.45	3.20	4.39
1	6	18	0.80	7.57	10.17	6.25	5.76
1	7	12	0.80	1.33	3.45	4.09	4.39
1	8	12	0.80	3.09	3.45	4.95	4.39
1	9	12	0.80	0.60	3.45	3.16	4.39
1	10	18	0.80	6.37	10.17	6.07	5.76
1	11	12	0.80	1.89	3.45	4.45	4.39
1	12	12	0.80	1.17	3.45	3.86	4.39
1	13	15	0.80	4.17	6.26	5.41	5.10
1	14	24	0.80	15.60	21.92	7.54	6.98
1	15	15	0.80	3.52	6.26	5.24	5.10
2	1	12	0.80	2.54	3.45	4.78	4.39
2	2	15	0.80	4.91	6.26	5.59	5.10
2	3	24	0.80	11.67	21.92	7.03	6.98
2	4	24	0.80	19.09	21.92	7.81	6.98
2	5	30	0.80	28.25	39.74	8.74	8.10
2	6	15	0.80	5.12	6.26	5.67	5.10
2	7	24	0.80	10.18	21.92	6.79	6.98
2	8	24	0.80	20.49	21.92	7.88	6.98
2	9	30	0.80	26.36	39.74	8.74	8.10
2	10	30	0.80	33.65	39.74	9.05	8.10
2	11	24	0.80	16.30	21.92	7.58	6.98
2	12	24	0.80	10.84	21.92	6.95	6.98
2	13	15	0.80	5.37	6.26	5.66	5.10
2	14	12	0.80	1.80	3.45	4.34	4.39

LEGEND

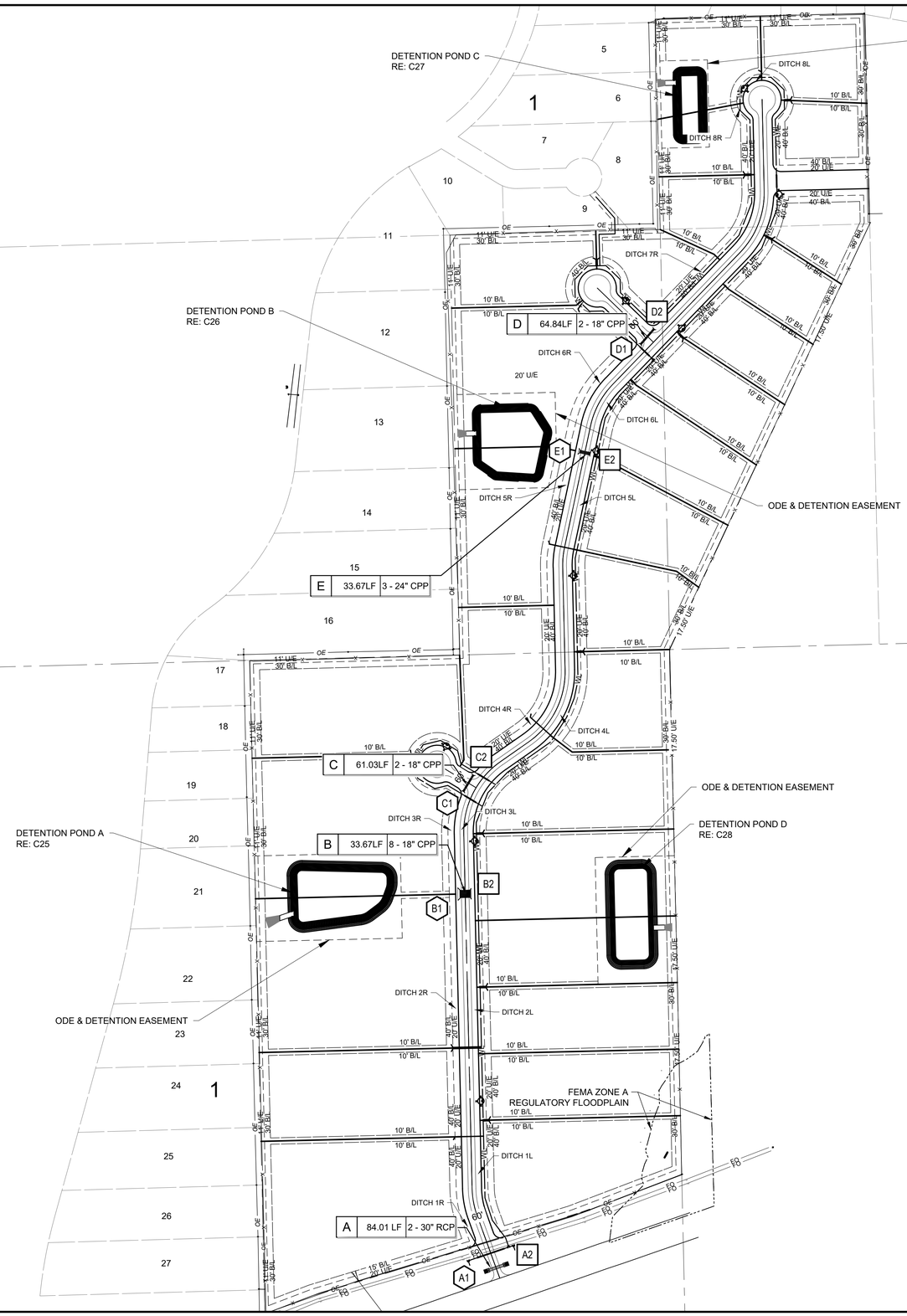
LINE LABEL — PIPE LENGTH — PIPE SIZE/TYPE

A	61.42LF	24"RCP

	EXISTING	PROPOSED
INLET	a	a
JUNCTION	1	1
OUTLET	A	A

STRUCTURE SUMMARY TABLE

A1	2-30" PCES
B1	CONCRETE HEADWALL RE: C22
C1	CONCRETE HEADWALL RE: C23
D1	CONCRETE HEADWALL RE: C23
E1	CONCRETE HEADWALL RE: C24
A2	2-30" PCES
B2	CONCRETE HEADWALL RE: C22
C2	CONCRETE HEADWALL RE: C23
D2	CONCRETE HEADWALL RE: C23
E2	CONCRETE HEADWALL RE: C24



200 0 100 200
1" = 200'

General Construction Notes:

1. ALL STORM SEWER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY STANDARD CONSTRUCTION SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
3. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.
4. MANHOLES AND APPURTENANCE DETAILS SHALL BE APPROVED BY THE CITY ENGINEER BEFORE CONSTRUCTION IS STARTED.
5. ALL STORM SEWER MAIN PIPE SHALL BE ADS CPP, CORRUGATED POLYPROPYLENE PIPE (CPP), OR EQUIVALENT PER COT STD SPEC 215.
6. IF REINFORCED CONCRETE PIPE (RCP) IS USED, IT SHALL CONFORM TO ASTM C-76 CLASS III, WALL "B", UNLESS OTHERWISE NOTED. OMNI-FLEX JOINTS SHALL BE REQUIRED ON ALL REINFORCED CONCRETE PIPE.
7. STORM SEWER BEDDING, BACKFILL, AND COMPACTION SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWINGS.
8. ALL STORM SEWER LINES NOT UNDER PAVING SHALL BE LAID IN TYPE A AGGREGATE BEDDING TO A MINIMUM DEPTH OF 12 INCHES ABOVE THE TOP OF PIPE. THE TRENCH MAY BE BACKFILLED WITH COMPACTED SOIL UPON APPROVAL BY THE INSPECTOR.
9. STORM SEWER LINES LOCATED UNDER PAVED STREETS SHALL BE LAID IN TYPE A AGGREGATE BEDDING AND THE TRENCH COMPLETELY FILLED TO SUBGRADE WITH TYPE A AGGREGATE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. PIPE BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES, AND COMPACTED BY VIBRATORY PLATE OR OTHER METHOD APPROVED BY THE ENGINEER.
11. PAVING SUBGRADE SHALL BE RESTORED TO PROPER GRADE (+ OR - 0.1 FT) AND DENSITY AFTER PIPE IS BACKFILLED.
12. ALL PRECAST MANHOLES SHALL HAVE ADJUSTABLE TOP RIMS PROVIDING SIX (6) INCHES, PLUS OR MINUS, FOR ADJUSTMENT TO FINAL GRADES. ELEVATIONS SHOWN ON PLANS MAY BE ADJUSTED WHILE THE WORK IS IN PROGRESS TO CONFORM TO FINAL IN-PLACE PAVING AND LANDSCAPE GRADES.
13. THE UTILITY CONTRACTOR ASSUMES THE RISK OF ORDERING PRECAST CONCRETE COMPONENTS PRIOR TO FIELD STAKING AND REVIEW OF FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.
14. VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DISTURBED AREAS AS SOON AS THE WORK IS COMPLETED.

NOTE: ALL STORM SEWER IS PUBLIC.

BORROW DITCH DESIGN TABLE

DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z:1, Z:1)	Q CAP (CFS)	V CAP (FPS)	Q 100 (CFS)	V 100 (FPS)	DEPTH 100 (FT)
1R	A1	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	33.7	8.6	0.66
1L	A2	0.030	547.30	8.00%	4	2	3;3	316.7	15.8	23.2	7.6	0.54
2R	B1	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	32.9	5.3	0.92
2L	B2	0.030	679.29	2.16%	4	2	3;3	164.5	8.2	34.4	5.4	0.94
3R	B1	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	32.4	3.3	1.32
3L	B2	0.030	296.52	0.55%	4	2	3;3	83.0	4.2	44.1	3.5	1.49
4R	C2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	15.2	3.6	0.69
4L	B2	0.030	850.98	1.40%	4	2	3;3	132.5	6.6	28.5	4.4	0.95
5R	E1	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	12.2	3.2	0.64
5L	E2	0.030	405.53	1.21%	4	2	3;3	123.2	6.2	13.4	3.3	0.67
6R	E1	0.030	426.04	0.90%	4	2	3;3	106.2	5.3	23.5	3.5	0.97
6L	E2	0.030	1,157.54	0.90%	4	2	3;3	106.2	5.3	32.6	3.9	1.14
7R	D2	0.030	740.68	0.90%	4	2	3;3	106.2	5.3	9.3	2.7	0.60
8L	-	0.030	152.37	0.75%	4	2	3;3	97.0	4.9	12.9	2.8	0.74
8R	-	0.030	341.41	0.75%	4	2	3;3	97.0	4.9	22.5	3.3	0.99

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ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21811
OKLAHOMA
8-4-2022

ISSUE LOG

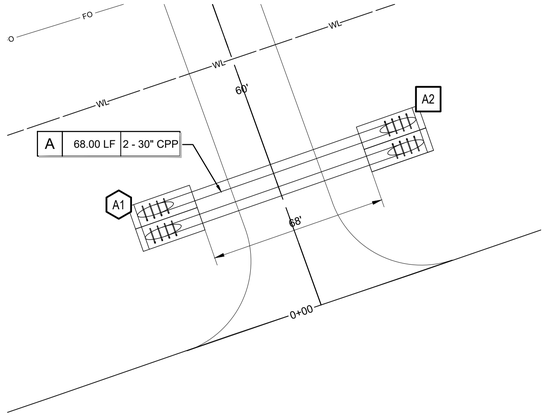
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	=	1"= 10'
VERT SCALE	=	N/A
IDP NO.	=	-
ATLAS NO.	=	
MANAGER	=	ANW
DRAWN BY	=	MDS

STORM SEWER PLAN

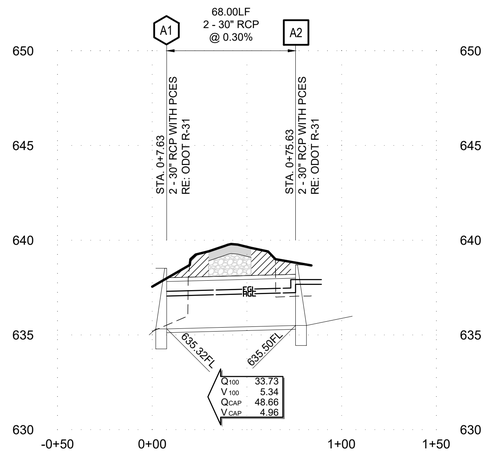
C21

ORIG SIZE:22"X34"
PLOT:8/4/2022 12:55:12 PM
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_STORM SEWER DETAIL.dwg



A LINE A PLAN

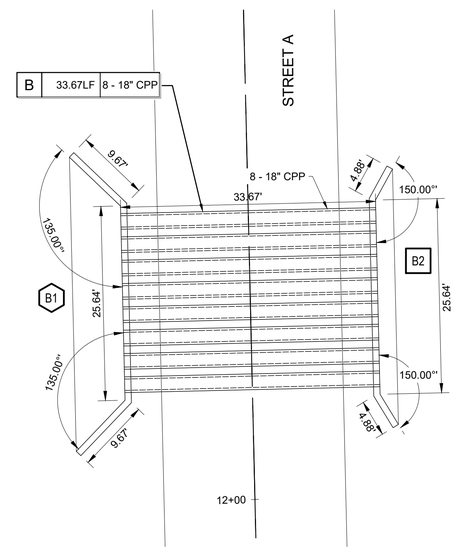
Scale: 1" = 20'



STORM SEWER A

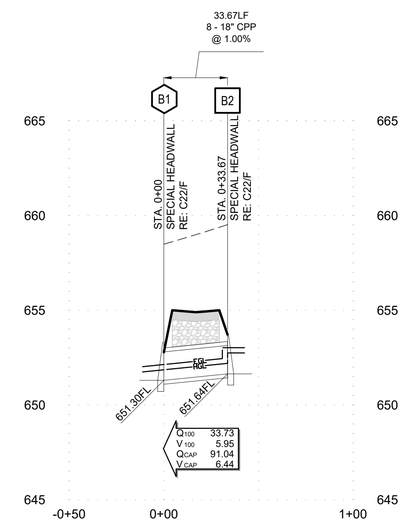
B LINE A PROFILE

Scale: 1" = 40'



C LINE B PLAN

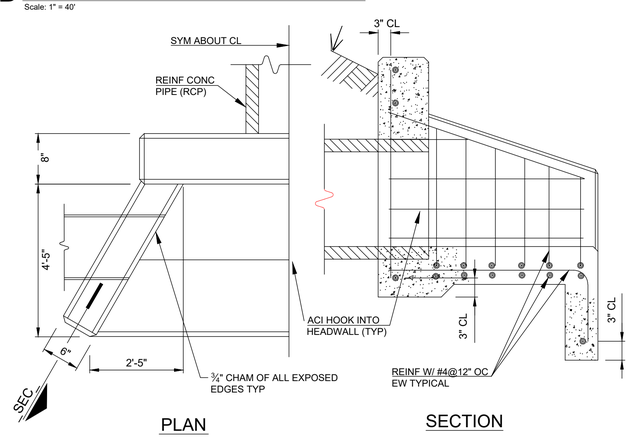
Scale: 1" = 10'



STORM SEWER B

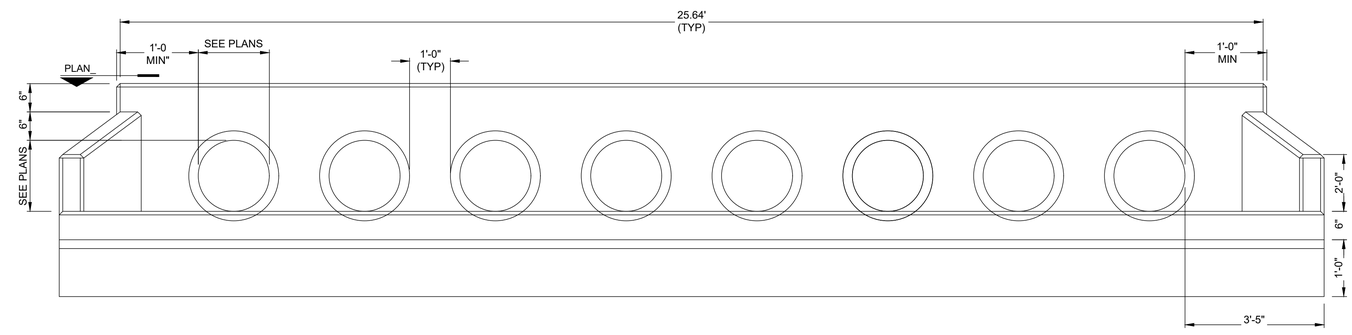
D LINE B PROFILE

Scale: 1" = 40'



E CONCRETE HEADWALL

Scale: N/A



F CONCRETE HEADWALL LINE B

Scale: N/A

N

10 0 5 10

1" = 10'

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21611
OKLAHOMA

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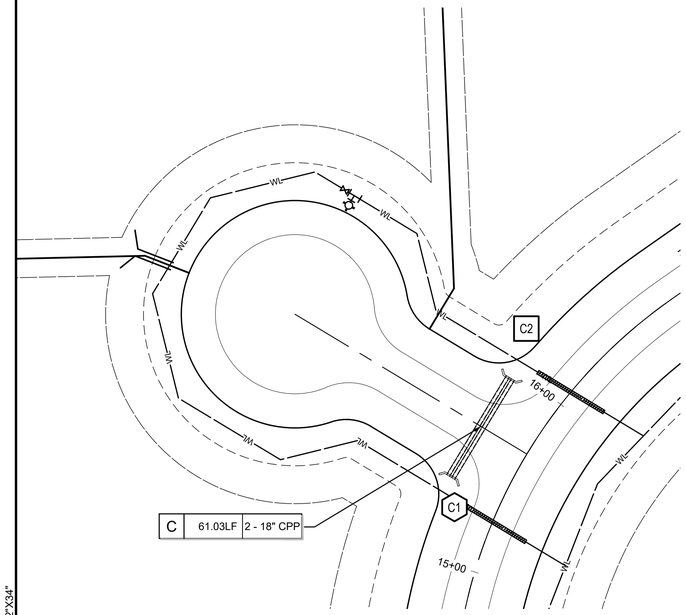
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

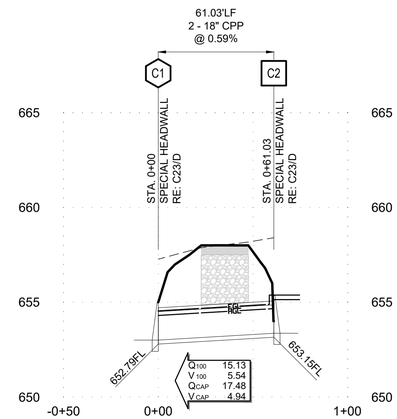
STORM SEWER PROFILES 1

C22

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_STORM SEWER DETAIL.dwg PLOT:8/4/2022 12:55:18 PM ORIG SIZE:22"X34"

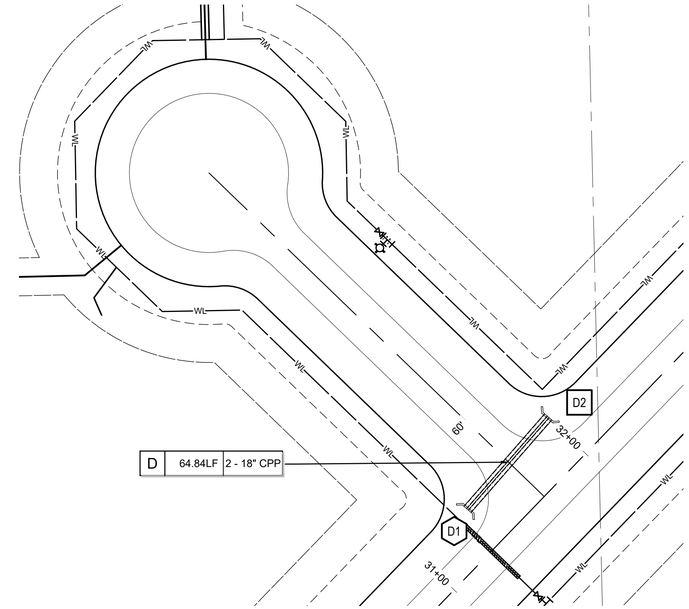


A LINE C PLAN
Scale: 1" = 40'

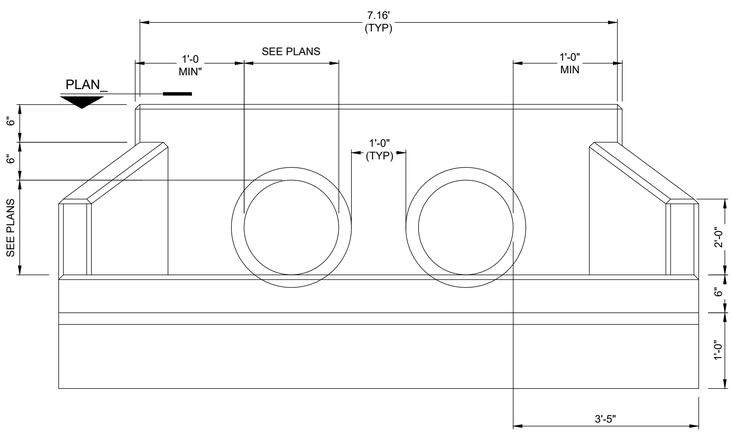


STORM SEWER C

B LINE C PROFILE
Scale: 1" = 40'



C LINE D PLAN
Scale: 1" = 40'



D CONCRETE HEADWALL LINES C & D
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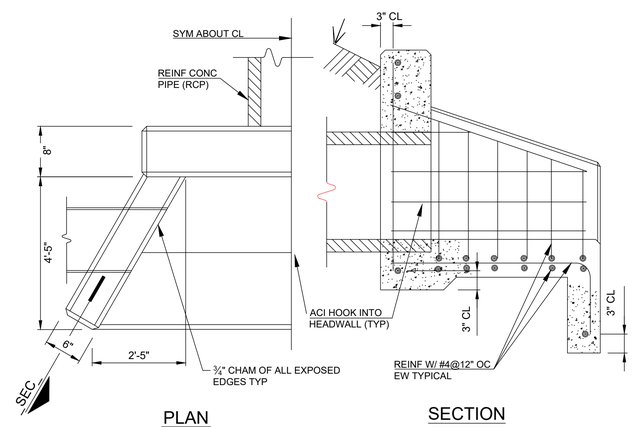

E CONCRETE HEADWALL LINES C & D
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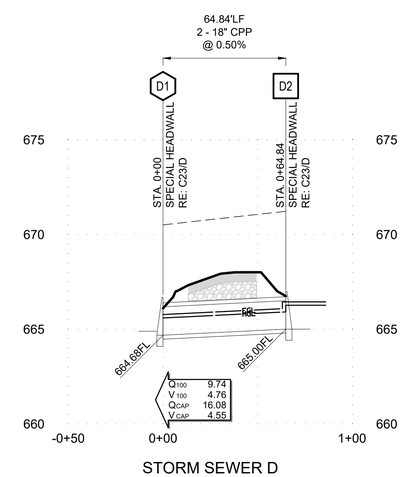

STORM SEWER D

F LINE D PROFILE
Scale: 1" = 40'

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21811
OKLAHOMA

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VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

STORM SEWER PROFILES 2

C23

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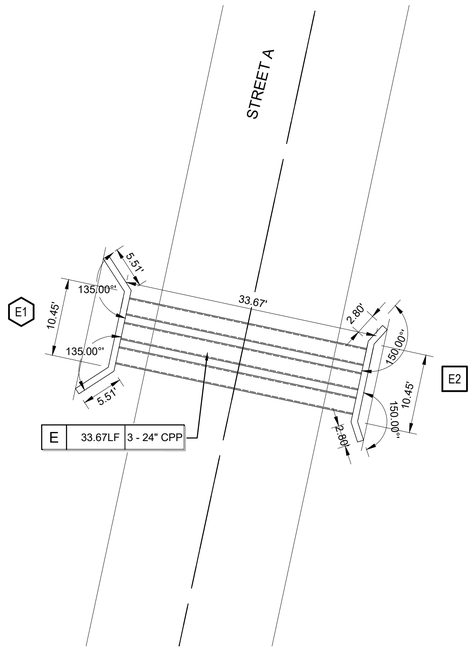
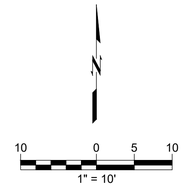
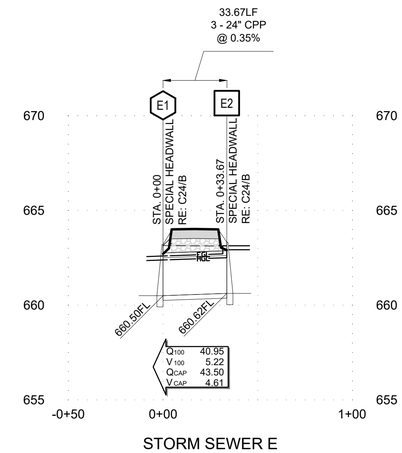


A LINE E PLAN
Scale: 1" =10'





STORM SEWER E

C LINE E PROFILE
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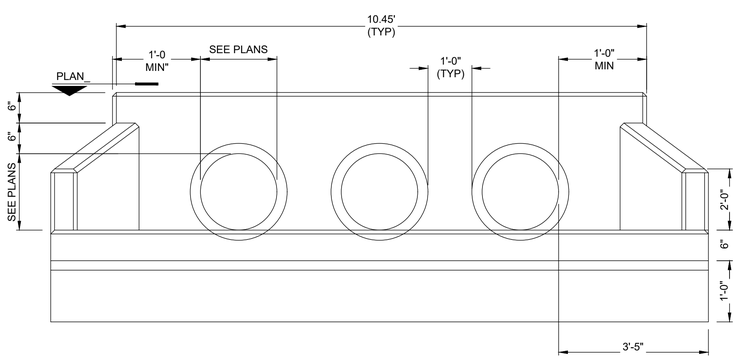

B CONCRETE HEADWALL LINE E
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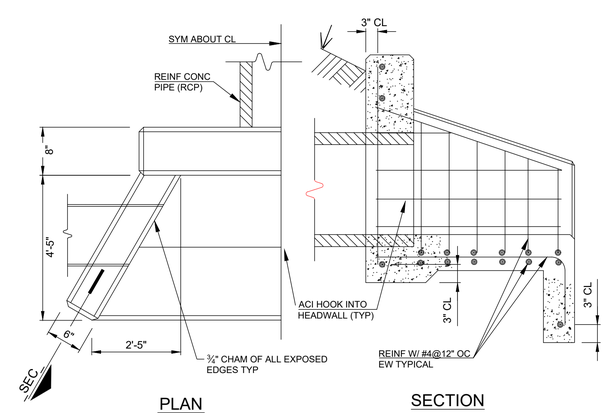

D CONCRETE HEADWALL LINE E
Scale: N/A

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ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

STORM SEWER PROFILES 3

C24

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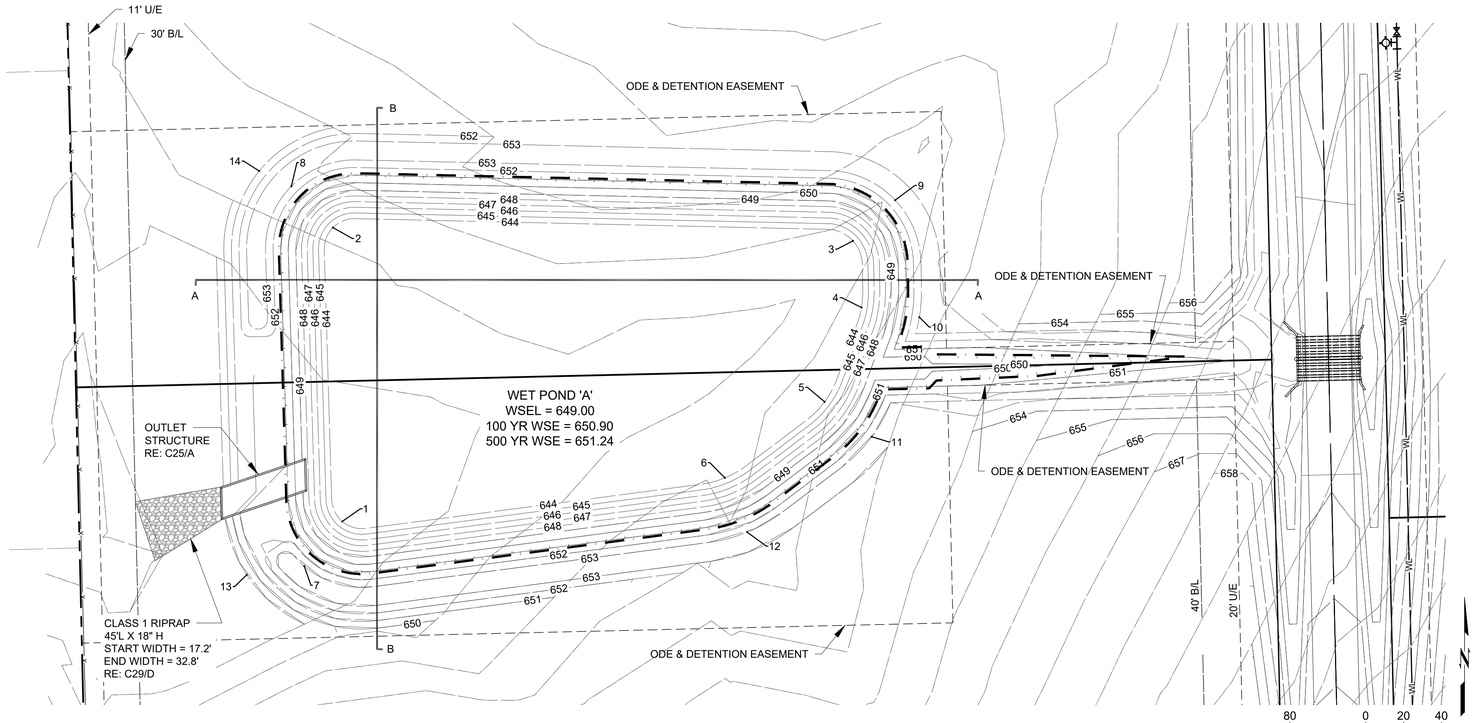


DETENTION POND 'A' PLAN VIEW

Scale: 1" = 40'

SCM-A DETENTION POND			
Point #	Elevation	Northing	Easting
1	644.00	487046.12	2699021.74
2	644.00	487201.23	2699016.82
3	644.00	487194.21	2699291.28
4	644.00	487159.06	2699295.82
5	644.00	487109.27	2699276.35
6	644.00	487069.12	2699223.71
7	653.00	487022.51	2699001.65
8	653.00	487223.07	2698994.82
9	653.00	487215.71	2699313.61
10	653.00	487153.91	2699326.39
11	653.00	487090.82	2699301.26
12	653.00	487040.44	2699235.47
13	649.00	487017.93	2698971.29
14	651.00	487231.09	2698977.85

SCM-A Detention Summary Chart

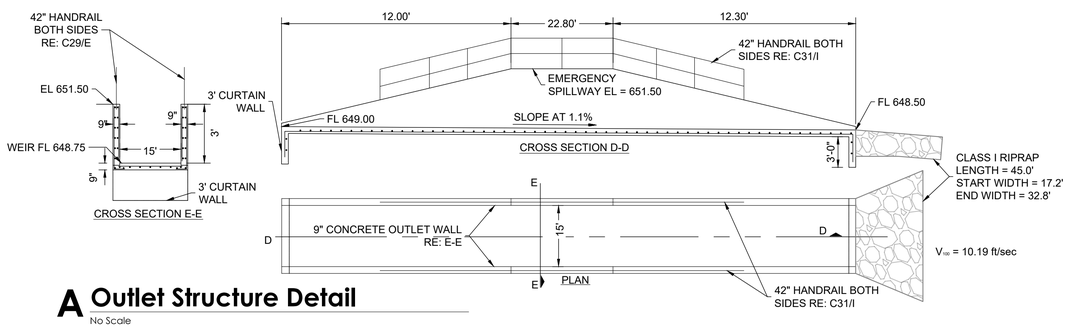
FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
DEVELOPED	Qin PEAK (CFS)	50.2	73.7	88.2	125.9	143.1	179.9
DEVELOPED	Qout PEAK (CFS)	34.3	55.1	67.9	102.0	117.7	150.8
DEVELOPED	W.S. ELEVATION (FT)	649.84	650.14	650.32	650.72	650.90	651.24
DEVELOPED	STORAGE (AC-FT)	1.0	1.4	1.6	2.2	2.4	2.9

SCM-A Detention Run-off Comparsion (POA-2)

FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
EXISTING	Qout PEAK (CFS)	72.3	108.30	130.40	188.20	214.50	271.0
DEVELOPED	Qout PEAK (CFS)	55.5	89.30	109.70	164.30	189.70	243.5

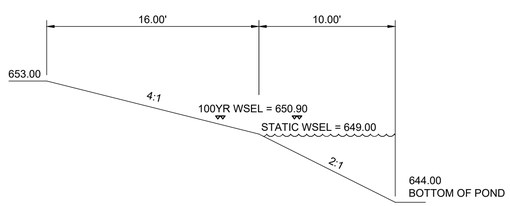
Line Legend

- 100 YR WSE BOUNDARY
- 500 YR WSE BOUNDARY



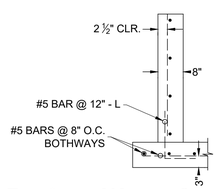
A Outlet Structure Detail

No Scale



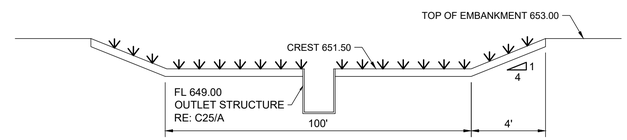
B Detention Pond Grading Detail

No Scale



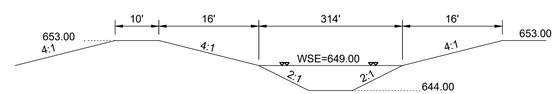
C Typical Wall - Section C-C

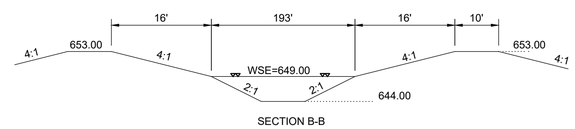
No Scale



D Emergency Spillway Detail

No Scale





E Detention Pond Cross Sections

No Scale

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HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER A. NICOLE WATTS 21811 OKLAHOMA

8-4-2022

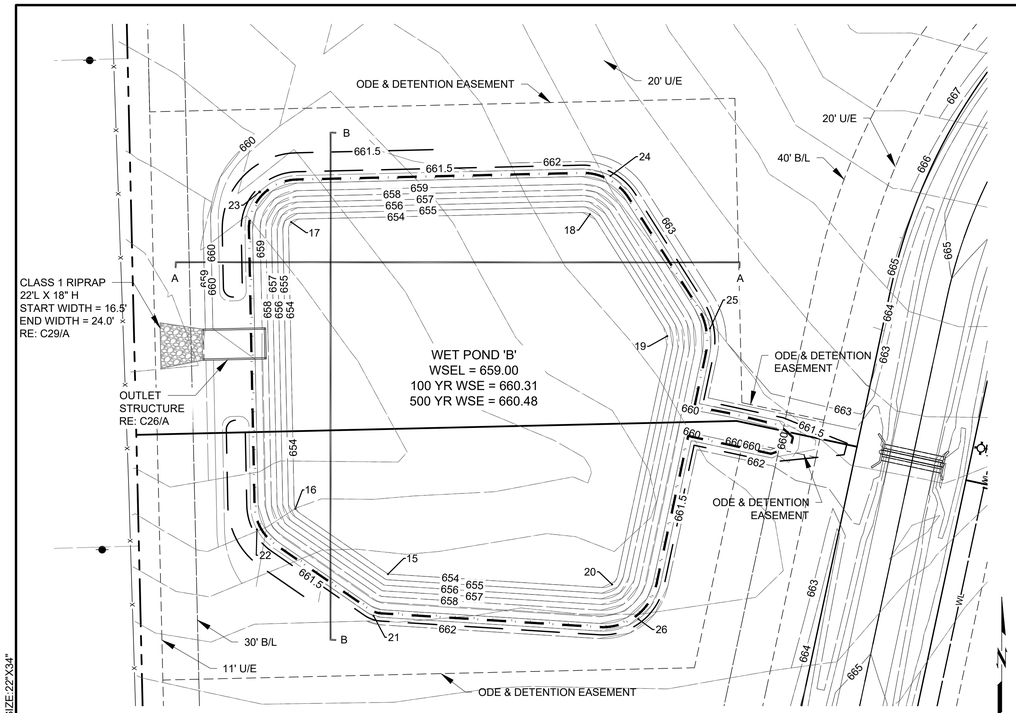
ISSUE LOG		
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	=	1"= 40'
VERT SCALE	=	N/A
IDP NO.	=	-
ATLAS NO.	=	
MANAGER	=	ANW
DRAWN BY	=	MDS

DETENTION POND SCM-A

C25

ORIG SIZE:22"X34"
PLOT:8/4/2022 12:55:48 PM
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DETENTION POND PLAN.dwg



DETENTION POND 'B' PLAN VIEW

Scale: 1" = 40'

80 0 20 40
1" = 40'

SCM-B DETENTION POND			
Point #	Elevation	Northing	Easting
15	654.00	488462.44	2699642.54
16	654.00	488496.89	2699593.58
17	654.00	488648.25	2699591.41
18	654.00	488652.32	2699749.10
19	654.00	488588.02	2699789.90
20	654.00	488456.94	2699760.85
21	661.00	488440.42	2699634.91
22	661.00	488485.99	2699573.33
23	661.00	488664.15	2699574.79
24	661.00	488672.60	2699759.96
25	661.00	488592.07	2699812.54
26	661.00	488438.61	2699774.74

SCM-B Detention Summary Chart

FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
DEVELOPED	Qin PEAK (CFS)	27.3	40.6	48.7	70.2	79.9	100.7
DEVELOPED	Qout PEAK (CFS)	19.8	32.0	39.6	59.1	69.3	92.8
DEVELOPED	W.S. ELEVATION (FT)	659.58	659.80	659.92	660.20	660.31	660.48
DEVELOPED	STORAGE (AC-FT)	0.6	0.9	1.0	1.3	1.4	1.6

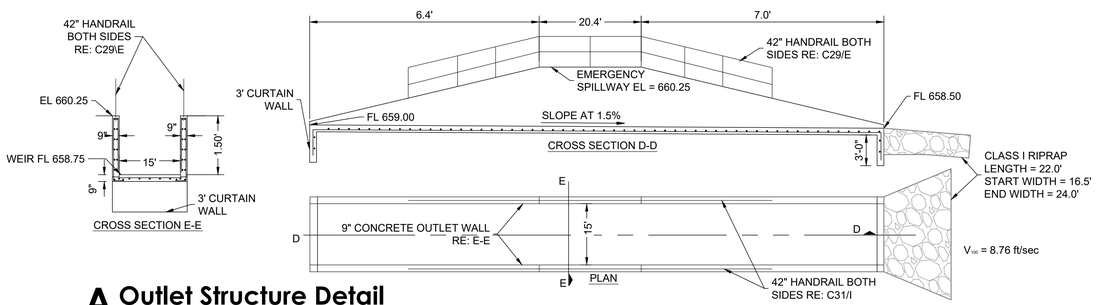
SCM-B Detention Run-off Comparsion (POA-3)

FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
EXISTING	Qout PEAK (CFS)	28.6	43.3	52.3	76.0	86.8	109.8
DEVELOPED	Qout PEAK (CFS)	23.9	38.8	48.1	72.1	84.4	113.6

Line Legend

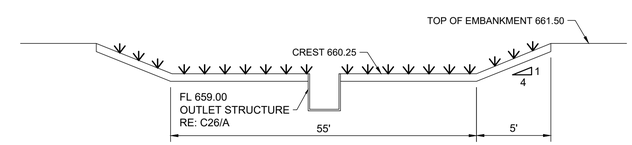
100 YR WSE BOUNDARY

500 YR WSE BOUNDARY



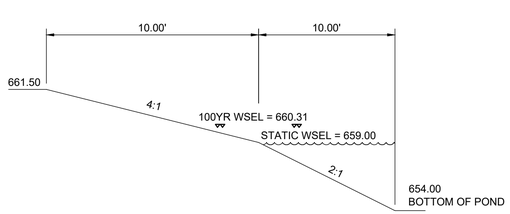
A Outlet Structure Detail

No Scale



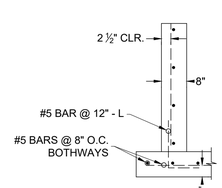
D Emergency Spillway Detail

No Scale



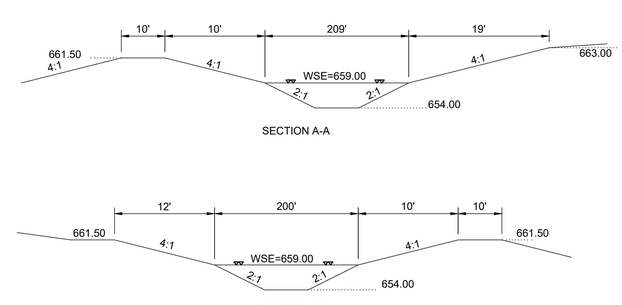
B Detention Pond Grading Detail

No Scale



C Typical Wall - Section C-C

No Scale



E Detention Pond Cross Sections

No Scale

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wallace design collective, pc
structural · civil · landscape · survey
123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
918.584.5858 · 800.364.5858
ca# 1460 exp. date 6/30/2023

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

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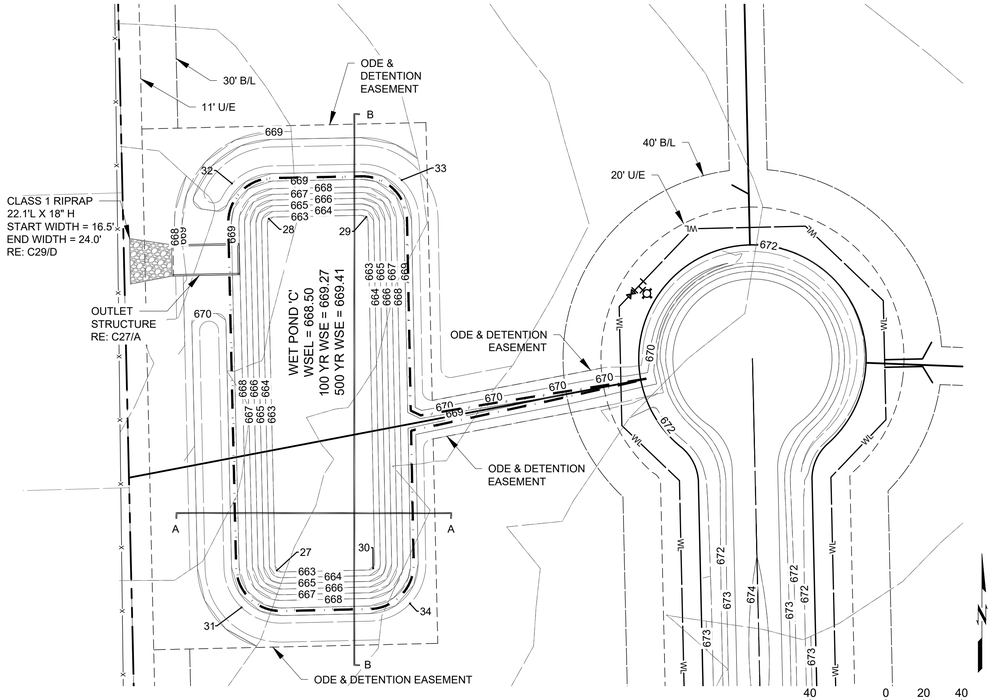
HORT SCALE	•	1"= 40'
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETENTION POND SCM-B

C26

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DETENTION POND PLAN.dwg PLOT:8/4/2022 12:55:56 PM ORIG SIZE:22"X34"



DETENTION POND 'C' PLAN VIEW

Scale: 1" = 40'

SCM-C DETENTION POND			
Point #	Elevation	Northing	Easting
27	663.00	489525.24	2700227.13
28	663.00	489710.84	2700222.91
29	663.00	489711.84	2700274.34
30	663.00	489526.39	2700277.93
31	671.00	489505.72	2700208.48
32	671.00	489729.52	2700203.42
33	671.00	489731.30	2700293.06
34	671.00	489507.71	2700297.42

SCM-C Detention Summary Chart

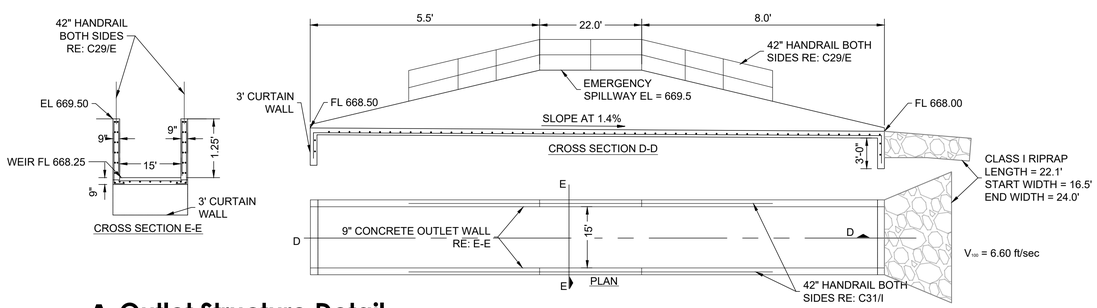
FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
DEVELOPED	Qin PEAK (CFS)	12.0	17.4	20.8	29.5	33.4	41.9
DEVELOPED	Qout PEAK (CFS)	10.1	15.4	18.5	26.9	30.7	38.9
DEVELOPED	W.S. ELEVATION (FT)	668.87	668.99	669.05	669.21	669.27	669.41
DEVELOPED	STORAGE (AC-FT)	0.2	0.2	0.2	0.3	0.4	0.4

SCM-C Detention Run-off Comparsion (POA-5)

FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
EXISTING	Qout PEAK (CFS)	21.3	31.5	37.8	54.2	61.6	77.5
DEVELOPED	Qout PEAK (CFS)	16.3	25.1	30.5	44.4	50.8	64.5

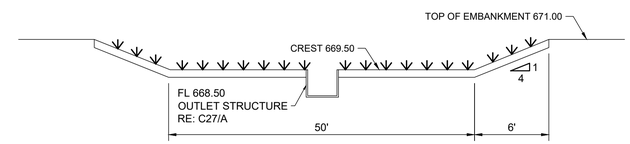
Line Legend

- 100 YR WSE BOUNDARY
- 500 YR WSE BOUNDARY



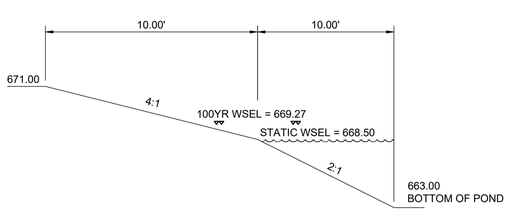
A Outlet Structure Detail

No Scale



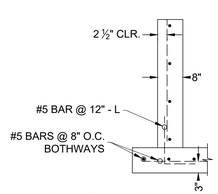
D Emergency Spillway Detail

No Scale



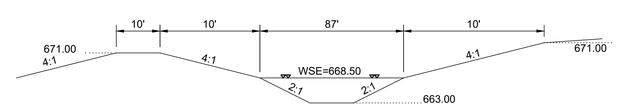
B Detention Pond Grading Detail

No Scale

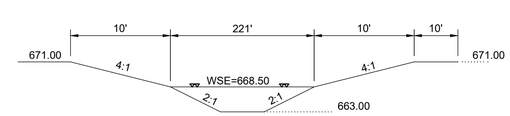


C Typical Wall - Section C-C

No Scale



SECTION A-A



SECTION B-B

E Detention Pond Cross Sections

No Scale

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tulsa, oklahoma 74103
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ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETENTION POND SCM-C

C27

ORIG SIZE 22"X34"
PLOT:8/4/2022 12:56:01 PM
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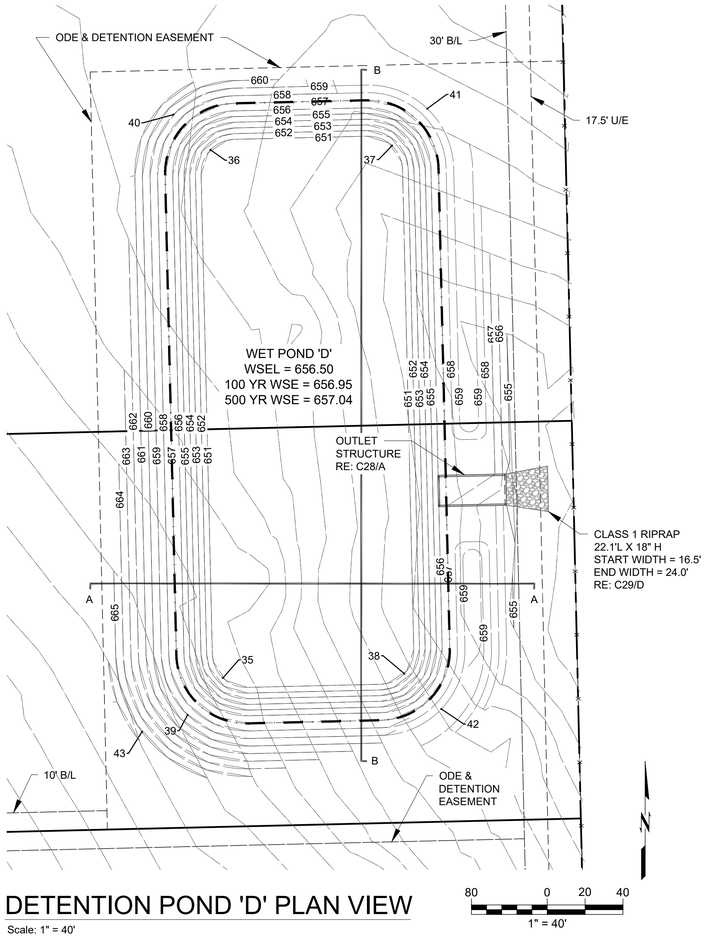
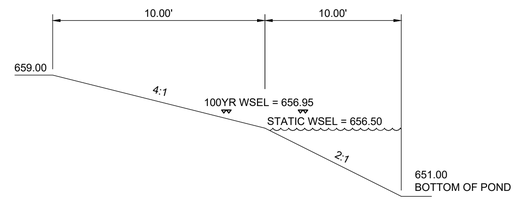


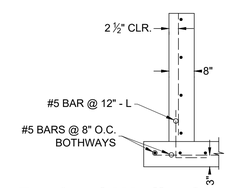
DETENTION POND 'D' PLAN VIEW

Scale: 1" = 40'



B Detention Pond Grading Detail

No Scale



C Typical Wall - Section C-C

No Scale

SCM-D DETENTION POND			
Point #	Elevation	Northing	Easting
35	651.00	486927.01	2700022.10
36	651.00	487205.76	2700015.58
37	651.00	487208.00	2700111.38
38	651.00	486929.25	2700117.90
39	659.00	486907.48	2700003.46
40	659.00	487224.40	2699996.05
41	659.00	487227.54	2700130.02
42	659.00	486910.61	2700137.44
43	665.00	486898.56	2699979.38

SCM-D Detention Summary Chart

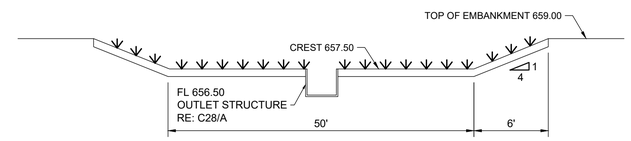
FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
DEVELOPED	Qin PEAK (CFS)	7.7	11.1	13.2	18.7	21.2	26.6
DEVELOPED	Qout PEAK (CFS)	3.4	5.9	7.4	11.6	13.6	17.8
DEVELOPED	W.S. ELEVATION (FT)	656.68	656.76	656.80	656.90	656.95	657.04
DEVELOPED	STORAGE (AC-FT)	0.2	0.3	0.3	0.4	0.5	0.6

SCM-D Detention Run-off Comparsion (POA-7)

FREQUENCY		2 YR	5 YR	10 YR	50 YR	100 YR	500 YR
EXISTING	Qout PEAK (CFS)	12.9	23.7	28.4	40.7	46.3	58.4
DEVELOPED	Qout PEAK (CFS)	12.3	19.2	23.5	35.0	40.30	51.7

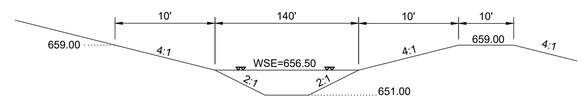
Line Legend

- 100 YR WSE BOUNDARY
- 500 YR WSE BOUNDARY

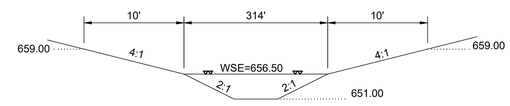


D Emergency Spillway Detail

No Scale



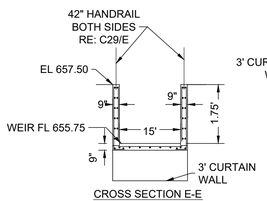
SECTION A-A



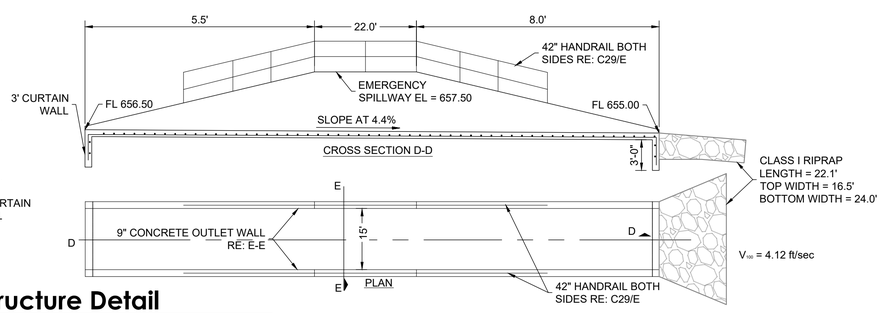
SECTION B-B

E Detention Pond Cross Sections

No Scale



CROSS SECTION E-E



A Outlet Structure Detail

No Scale

wallace design collective

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IDP NO.	•	-
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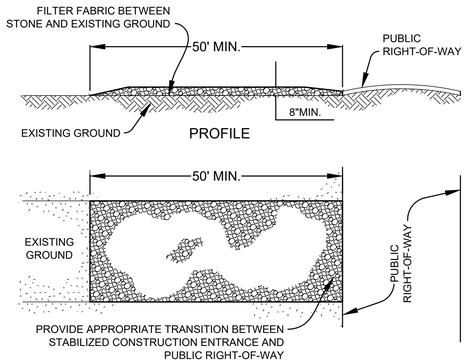
MANAGER	•	ANW
DRAWN BY	•	MDS

DETENTION POND SCM-D

C28

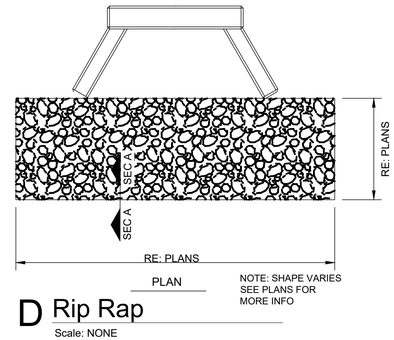
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DETENTION POND PLAN.dwg PLOT:8/4/2022 12:56:06 PM ORIG SIZE:22"X34"

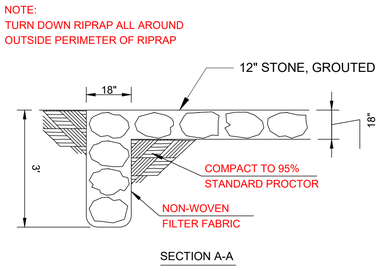


1. STONE SIZE AASHTO DESIGNATION M43, SIZE NO.2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT(8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE OWNER.

A Construction Entrance Detail

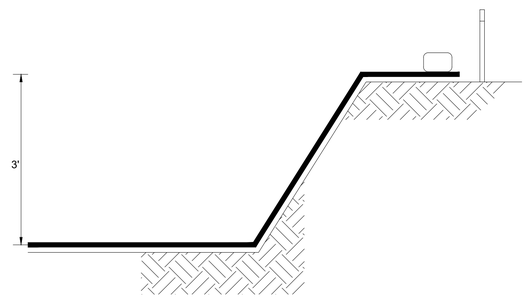
Scale: NONE

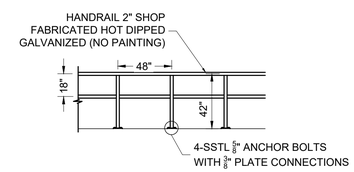




D Rip Rap

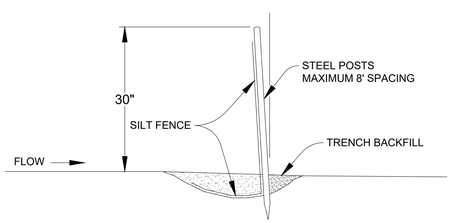
Scale: NONE





E Handrail

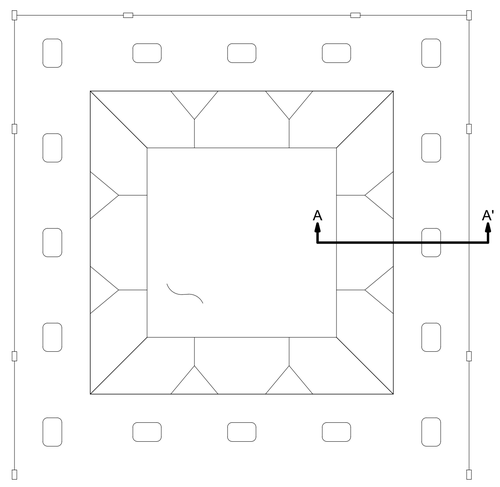
Scale: NONE



1. POSTS SHALL BE ANGLED SLIGHTLY TOWARD RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN AND BACKFILLED.
3. THE TRENCH SHOULD BE 6" DEEP BY 3' TO 4' WIDE TO ALLOW SILT FENCE TO BE LAID IN AND BACKFILLED.
4. SILT FENCE SHALL BE FASTENED TO POSTS OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE POSTS.
5. INSPECTION SHALL BE FREQUENT & REPAIR OR REPLACEMENT PROMPT.
6. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO IMPEDE STORMWATER FLOW.
7. TRAPPED SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER AND LOCATION WHICH WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" TO 9" AND DISPOSED OF AS IN NOTE 7 ABOVE.
9. WIRE BACKING REQUIRED

B Silt Fence Detail

Scale: NONE

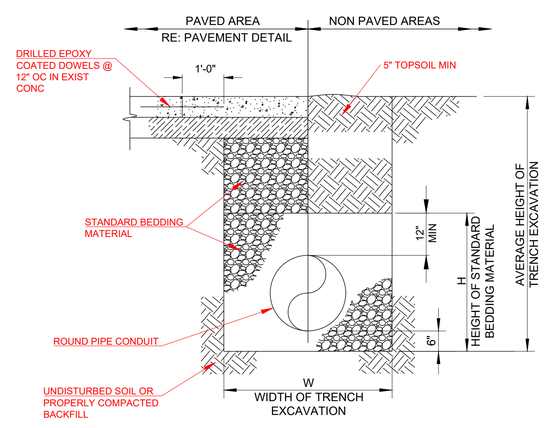


PLAN

NOTE:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

C Concrete Cleanout

Scale: NONE



LIMITS OF STANDARD BEDDING MATERIAL QUANTITIES FOR BEDDING MATERIAL DO NOT INCLUDE THE SPACE WITHIN AND BOUNDED BY THE OUTER SURFACE OF THE PIPE CONDUIT.

TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
STANDARD BEDDING MUST BE ODOT TYPE "A" AGGREGATE BASE. UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

PIPE SIZE, IN.	TRENCH WIDTH, FT.
ID < 24"	OD + 2'
24" > ID < 36"	OD + 2.5'
36" > ID < 60"	OD + 3.5'
ID > 60"	OD + 4'

F Standard Pipe Bedding Detail For Storm Sewer

Scale: NONE

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ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER A. NICOLE WATTS 21611 OKLAHOMA

8-4-2022

ISSUE LOG

#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

HORT SCALE	•	1"=N/A
VERT SCALE	•	N/A
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	MDS

DETAIL SHEET 1

C29

\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_DETAILS.dwg PLOT:8/4/2022 12:56:14 PM ORIG SIZE:22"X34"

Waterline Plans
for

HUNTER'S BEND

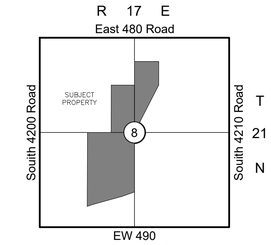
A TRACT OF LAND LYING IN SECTION 8, TOWNSHIP 21 NORTH, RANGE 17 EAST OF THE I.B.&M.,
ROGERS, COUNTY, OKLAHOMA.

OWNER:
Richmoore Family, LLC
6528 E 101st St, Ste D1#412
Tulsa, OK 74133
mike.p.merrell@gmail.com
Michael Merrell

ENGINEER:
Wallace Design Collective, P.C.
123 North Martin Luther King Jr Blvd.
Tulsa, Oklahoma, 74103
Phone: (918) 584-5858
A. NICOLE WATTS, P.E. NO. 21511
OK CA NO. 1460, EXPIRES 6/30/2023
nicole.watts@wallace.design

SURVEYOR:
Bennett Surveying, Inc.
210 Chouteau Avenue
Chouteau, Oklahoma 74337
Phone: (918) 476-7484
RPLS 1556, CA #4502 EXPIRES 6/30/2022
wade@bennettsurveying.com

300 0 150 300
1" = 300'



Location Map

Contact List

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123 NORTH MARTIN LUTHER
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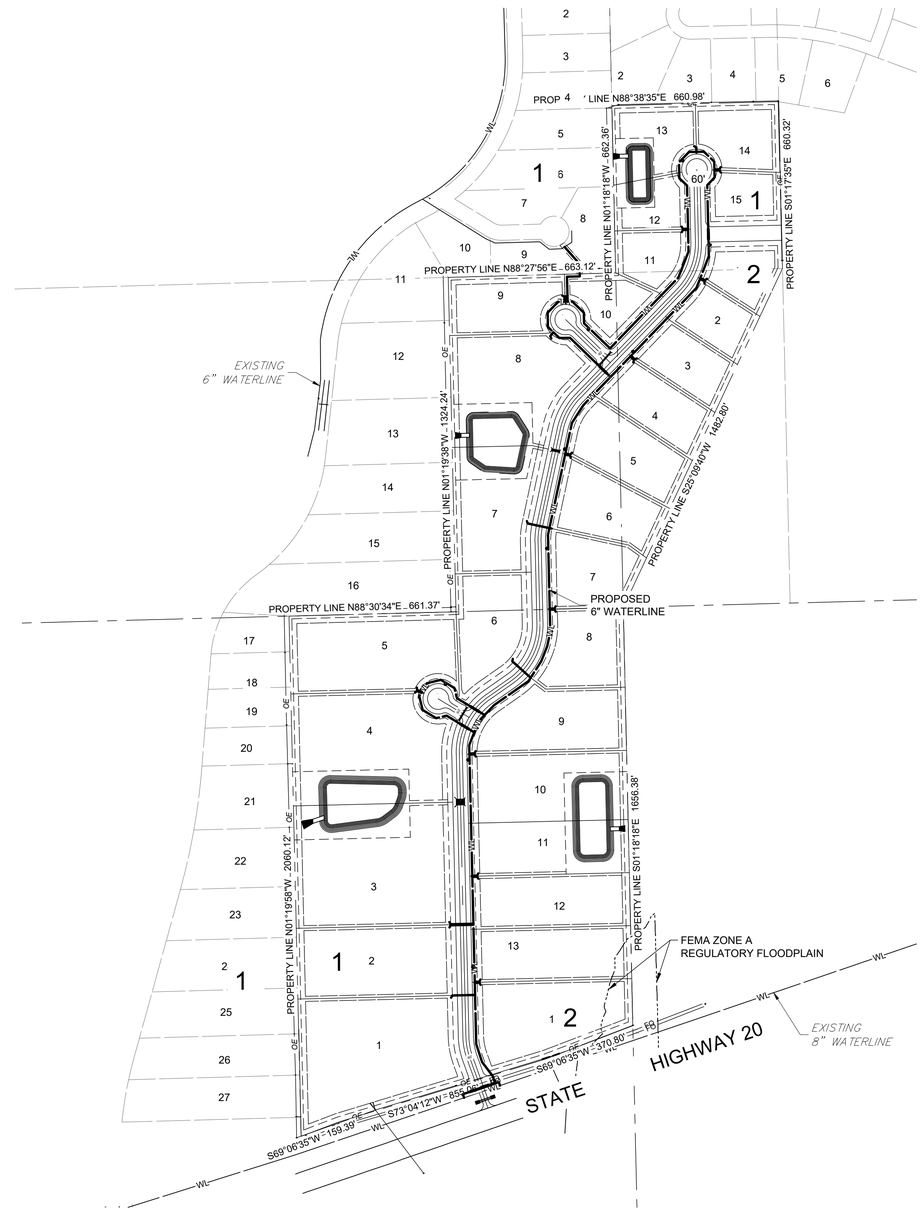
TULSA, OK 74013
PHONE: (918) 584-5858

ROGERS COUNTY PLANNING COMMISSION
200 S. LYNN RIGGS BLVD
CLAREMORE, OKLAHOMA 74017
PHONE: (918) 923-4874

VERDIGRIS VALLEY ELECTRIC DEPARTMENT
8901 E 146TH ST N
COLLINSVILLE, OKLAHOMA 74021
PHONE: (918) 371-2584

ALLEGIANCE COMMUNICATIONS
9952 E SPOTTED HORSE DR
CLAREMORE, OK 74019
PHONE: (918) 342-0619

OKLAHOMA NATURAL GAS
SCOTT GIDEON - NEW SERVICE
5848 EAST 15TH STREET
TULSA, OK 74112
PHONE: (918) 831-8386



Sheet Index

IDP INDEX	SHEET NO.	SHEET TITLE
WL01	1	COVER SHEET
WL02	2	OVERALL WATERLINE PLAN
WL03	3	SOUTH WATERLINE PLAN
WL04	4	NORTH WATERLINE PLAN
WL05	5	WATERLINE PROFILES 1
WL06	6	WATERLINE PROFILES 2
WL07	7	WATERLINE PROFILES 3
WL08	8	WATERLINE PROFILES 4
WL09	9	WATERLINE PROFILES 5
WL10	10	WATERLINE PROFILES 6
WL11	11	WATERLINE PROFILES 7
WL12	12	WATERLINE PROFILES 8
WL13	13	WATERLINE DETAILS

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HUNTER'S BEND
ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21511
OKLAHOMA
2-15-2022

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#	DATE	DESCRIPTION
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MANAGER	•	ANW
DRAWN BY	•	ASB

COVER SHEET

WL01

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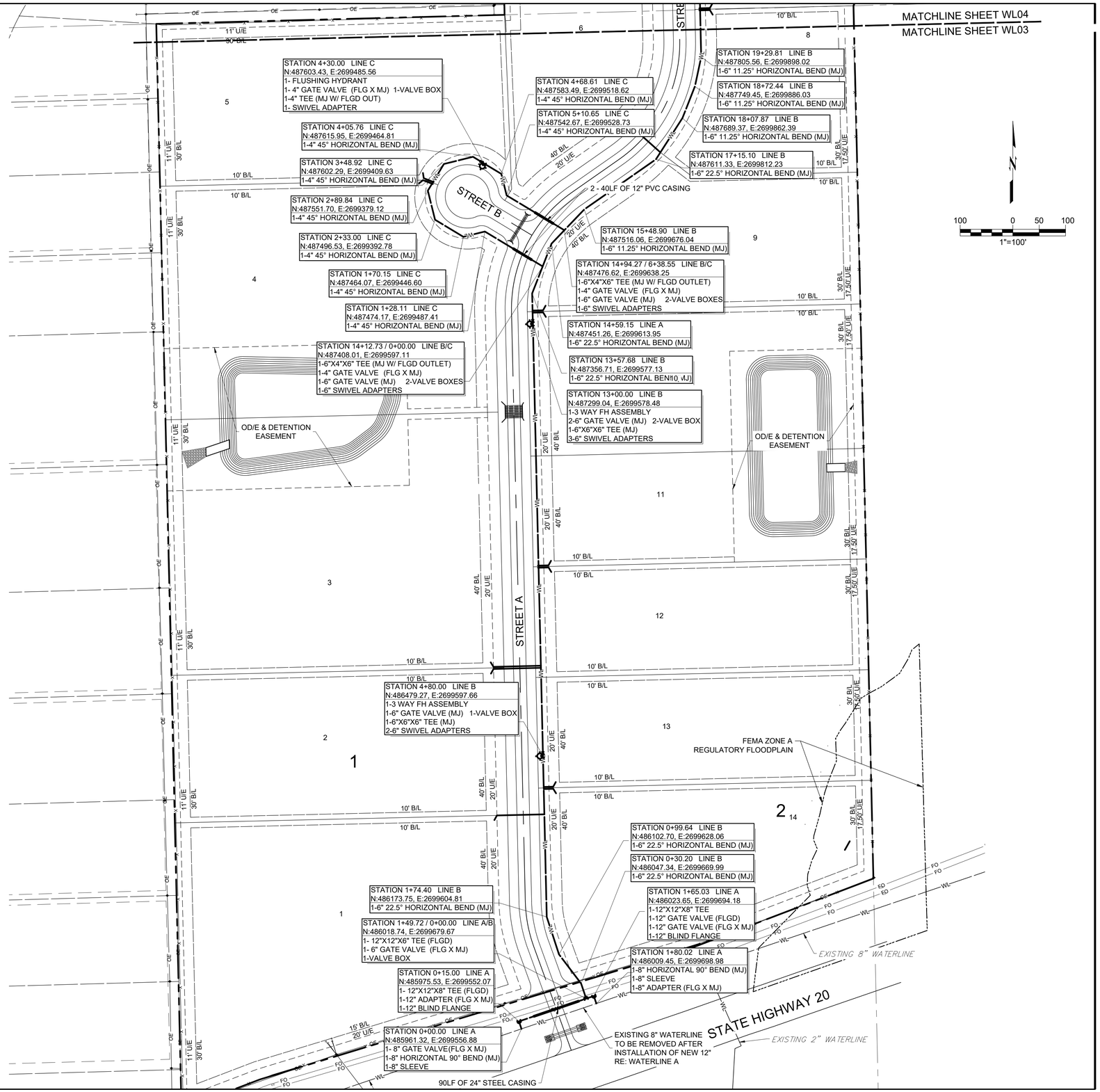

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MANAGER	•	ANW
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SOUTH WATERLINE PLAN

WL03

03OF 13

ORIG SIZE:22"X34"

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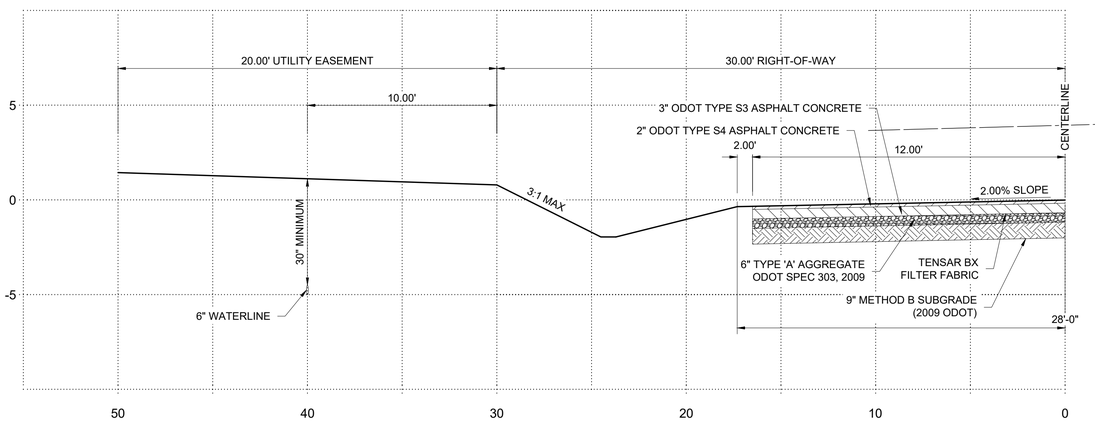
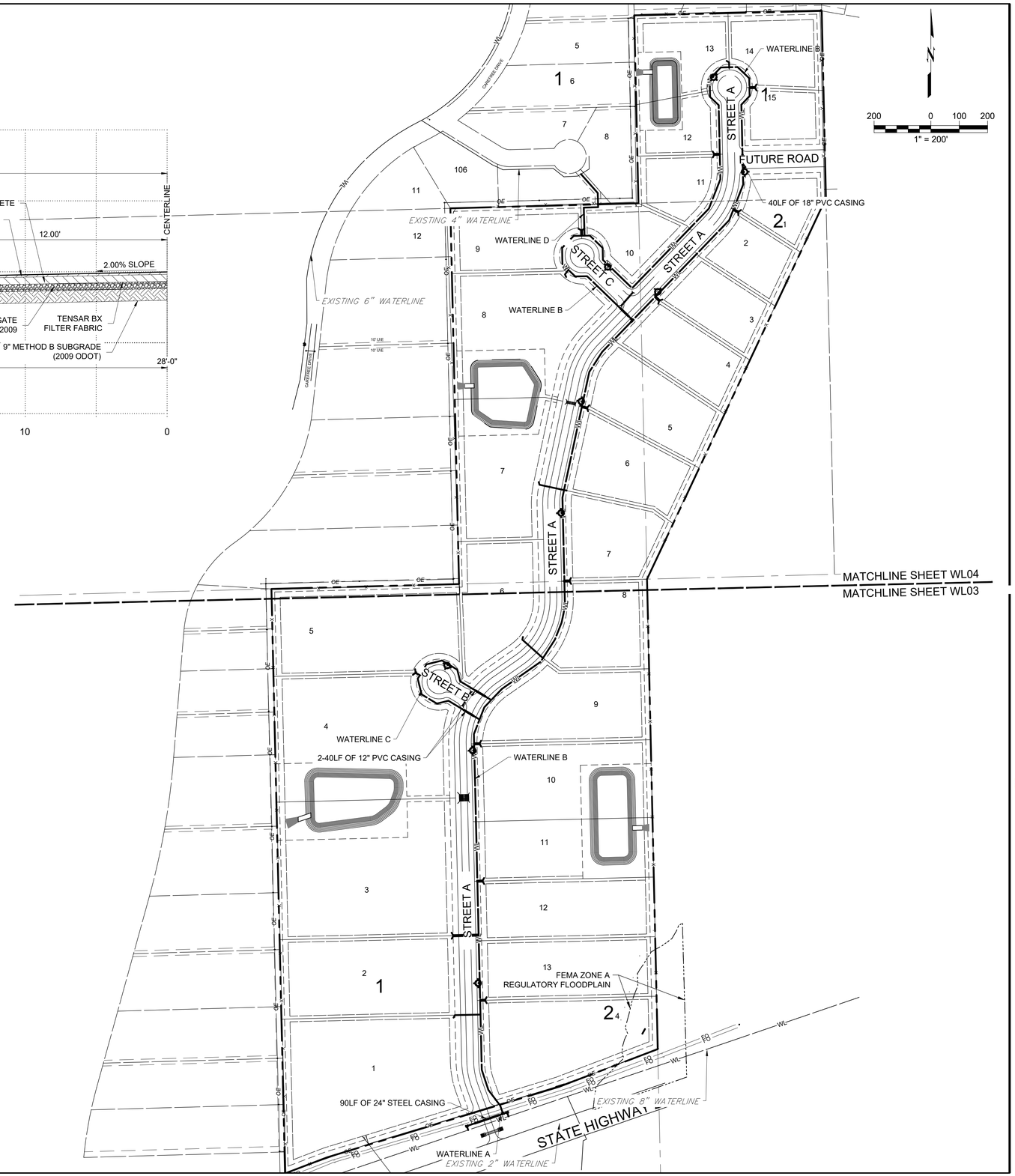
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_OVERALL WATERLINE PLAN.dwg



A Typical Waterline Location

Scale: NONE



Waterline Notes

1. ALL WATER DISTRIBUTION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT RURAL WATER DISTRICT NO. 7 CONSTRUCTION SPECIFICATIONS AND ALL CONSTRUCTION INSTALLATION SHALL MEET OR EXCEED THE RURAL WATER DISTRICT NO. 7 STANDARDS AND POLICY.
2. THE PROJECT RESPONSIBLE CONTRACTOR AND ANY OTHER SUB-CONTRACTORS UNDER SEPARATE CONTRACT, IS/ARE REQUIRED TO HAVE A PRE- CONSTRUCTION MEETING WITH RURAL WATER DISTRICT NO. 7 STAFF. SUCH A MEETING IS REQUIRED BEFORE ANY INFRASTRUCTURE CONSTRUCTION IS PERFORMED. SHOULD THE RESPONSIBLE CONTRACTOR(S) REPRESENTATIVE FAIL TO PARTICIPATE WITHIN A MUTUALLY SCHEDULED PRE-CONSTRUCTION MEETING, ALL CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY TERMINATED INDEFINITELY BY THE RURAL WATER DISTRICT NO 7. SUCH MEETINGS WILL ALSO BE MANDATORY, UPON RURAL WATER DISTRICT NO. 7'S REQUEST, DURING THE CONSTRUCTION PROCESS, IF NECESSARY.
3. ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION SHALL BE INSPECTED BY THE RURAL WATER DISTRICT NO. 7 UTILITY INSPECTORS.
4. DIG THROUGH LOCATOR TAPE WILL BE BURIED 2 FEET ABOVE THE LINE.
5. WHEN SDR-21 PVC IS USED, A NO. 12 COATED COPPER WIRE SHALL BE TAPED TO THE TOP SURFACE OF THE PIPE AND CONNECTED TO EACH FIRE HYDRANT BY ATTACHING TO A BOLT, JUST ABOVE GROUND LEVEL.
6. FITTINGS FOR PVC PIPE SHALL BE POLYETHYLENE WRAPPED DUCTILE IRON. THE USE OF PVC FITTINGS SHALL NOT BE PERMITTED.
7. STREET CROSSINGS FOR ALL WATER LINES SHALL BE PLACED IN CONDUIT.
8. ALL DISTRIBUTION LINES IN CONDUIT 30 FEET LONG OR LONGER SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS.
9. ALL MAIN LINES SHALL HAVE A MINIMUM OF 30 INCHES AND A MAXIMUM OF EIGHT (8) FEET OF COVER, UNLESS OTHERWISE SHOWN HEREIN.
10. BEDDING, BACKFILL, AND COMPACTION OVER WATER LINES SHALL BE IN ACCORDANCE WITH STANDARD DRAWINGS SHOWN ON THERE PLANS. BACKFILL AND COMPACTION REQUIREMENT FOR STREET CROSSING SHALL EXTEND TWO (2) FEET BACK OF CURB.
11. ALL WATER DISTRIBUTION SYSTEM LINES, EXCEPT DEAD END FOR FIRE HYDRANTS ONLY, SHALL BE LOOPED TO PROVIDE CIRCULATION.
12. DISTRIBUTION LINES SMALLER THAN FOUR (4) INCHES SHALL NOT BE INSTALLED.
13. FIRE HYDRANTS:
    a. FIRE HYDRANTS SHALL BE A MINIMUM 4 1/2 INCH NOZZLE TYPE AND OF THE KENNEDY, MUELLER, OR AMERICAN DARLING BRAND NAME.
    b. EACH HYDRANT SHALL BE SET WITH THE PUMPER NOZZLE FACING THE STREET AND WITH A MINIMUM CLEARANCE OF EIGHTEEN (18) INCHES ABOVE THE FINISHED GRADE.
    c. ALL EXPOSED PORTIONS OF FIRE HYDRANTS SHALL BE PAINTED WITH A RED ENAMEL AS MANUFACTURED BY GLIDDEN OR DUPONT.
14. WHEN WORKING IN OR ADJACENT TO EXISTING SUBDIVISIONS, ONLY ONE (1) DAYS WORTH OF TRENCH MAY BE OPEN AT A GIVEN TIME. THIS REQUIREMENT MAY BE MODIFIED, IN WRITING BY THE COUNTY ENGINEER, FOR A SPECIFIC PROJECT.
15. ROAD CLOSURES MUST BE COORDINATED A MINIMUM OF TWENTY FOUR (24) HOURS IN ADVANCE. ROADS WILL NOT BE CLOSED FOR OVER EIGHT (8) HOURS WITHOUT WRITTEN PERMISSION FROM THE COUNTY COMMISSIONER.
16. ALL FITTING BENDS, TEES AND FIRE HYDRANTS SHALL HAVE MECHANICAL JOINT RESTRAINTS, WITH MIDCO PERMAGRIP OR EBAA IRON MEGALUG WHERE NOTED ON THE PLANS. ALL BOLTS IN RESTRAINTS MUST BE COATED TO PREVENT CORROSION.
17. NO CONSTRUCTION ACTIVITIES ON THE WATER SYSTEM ARE PERMITTED UNTIL THE WATER DISTRICT'S OFFICE HAS RECEIVED A COPY OF THE ODEQ 'PERMIT TO CONSTRUCT' AND AUTHORIZATION TO PROCEED WITH THE WATER SYSTEM HAS BEEN PROVIDED BY THE DISTRICT MANAGER.
18. ALL WATERLINE CONDUIT FOR SERVICE LINES SHALL BE 4" SCH40.
19. METERS AND SERVICE LINES ARE SHOWN AS REPRESENTATIONS ONLY AND ARE NOT PART OF THIS SET OF PLANS. SEPARATE PERMITS ARE REQUIRED FOR SETTING SERVICE METERS.
20. CONTRACTOR SHALL SUBMIT CERTIFICATIONS FROM THE MANUFACTURER THAT PVC PIPE HAS BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS, AND THAT IT MEETS THE APPROVAL OF THE "NSF".
21. ALL STONES FOUND IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 6 INCHES BELOW THE BOTTOM OF THE PIPE.
22. TEST THE INSTALLED PIPE FOR LEAKAGE IN ACCORDANCE WITH AWWA STANDARD SPECIFICATIONS. LEAKAGE MUST NOT EXCEED 10 GALLONS PER INCH DIAMETER PER MILES OF PIPE PER 24 HOURS AT 150 PSI.
23. DISINFECT ALL WATERLINES ACCORDING TO AWWA STANDARD SPECIFICATIONS. OBTAIN BACTERIOLOGICAL SAMPLES ON TWO CONSECUTIVE DAYS BEFORE PLACING THE WATERLINE INTO SERVICE.
24. IN ACCORDANCE WITH OAC 252:626-19-2(h), THE MINIMUM SEPARATION BETWEEN WATERLINE AND OTHER BURIED UTILITIES AS FOLLOWS:
    a. 10 FEET HORIZONTALLY FROM SEWER LINES.
    b. 2 FEET VERTICALLY FROM SEWER LINES SO THAT ITS JOINTS WILL BE EQUIDISTANT FROM THE WATERLINE
    c. 2 FEET VERTICALLY FROM ANY EXISTING OR PROPOSED STORM SEWERS, RAW WATERLINES, PETROLEUM PRODUCT LINES, NATURAL GAS LINES, AND OTHER BURIED UTILITIES.
    d. 5 FEET HORIZONTALLY FROM ANY EXISTING STORM SEWERS, RAW WATER LINES, PETROLEUM PRODUCT LINES, NATURAL GAS LINES, AND OTHER BURIED UTILITIES.
    e. LOCATE CAST IRON WATERLINES AT LEAST 10 FEET FROM ANY GASOLINE STORAGE TANKS AND LINES.
    f. 15 FEET FROM ALL PARTS OF SEPTIC TANKS, ADSORPTION FIELDS, OR OTHER SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
    g. WHEN IT IS IMPOSSIBLE TO OBTAIN SUCH HORIZONTAL OR VERTICAL SEPARATION BETWEEN THE WATER AND SEWER LINES, CONSTRUCT THE SEWER LINE OF WATER PIPE AND PRESSURE TEST IT TO ASSURE WATER TIGHTNESS.
28. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH RWD #7 STANDARD SPECIFICATIONS DATED MAY 2022 AND ON FILE WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUANTITY'S CONSTRUCTION PERMITTING SECTION.
29. ALL VALVES LOCATED ADJACENT TO A FITTING SHALL BE HARD TIED VIA SWIVEL CONNECTOR, EITHER UTILIZING A SWIVEL ADAPTER OR SWIVEL TEE.
30. MAXIMUM ALLOWABLE BELL JOINT DEFLECTION WILL BE 1 DEGREES. ANY DEFLECTION GREATER THAN 1 DEGREES WILL REQUIRE A DUCTILE IRON FITTING.
31. PLACE BLUE PAINTED T-POSTS AT THE END OF ALL LONG SERVICE CROSSINGS.

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HUNTER'S BEND

ROGERS COUNTY, OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21511
OKLAHOMA

2-15-2022

ISSUE LOG

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1	2.15.2022	RWD SUBMITTAL
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MANAGER	•	ANW
DRAWN BY	•	ASB

OVERALL WATERLINE PLAN

WL02

02 OF 13

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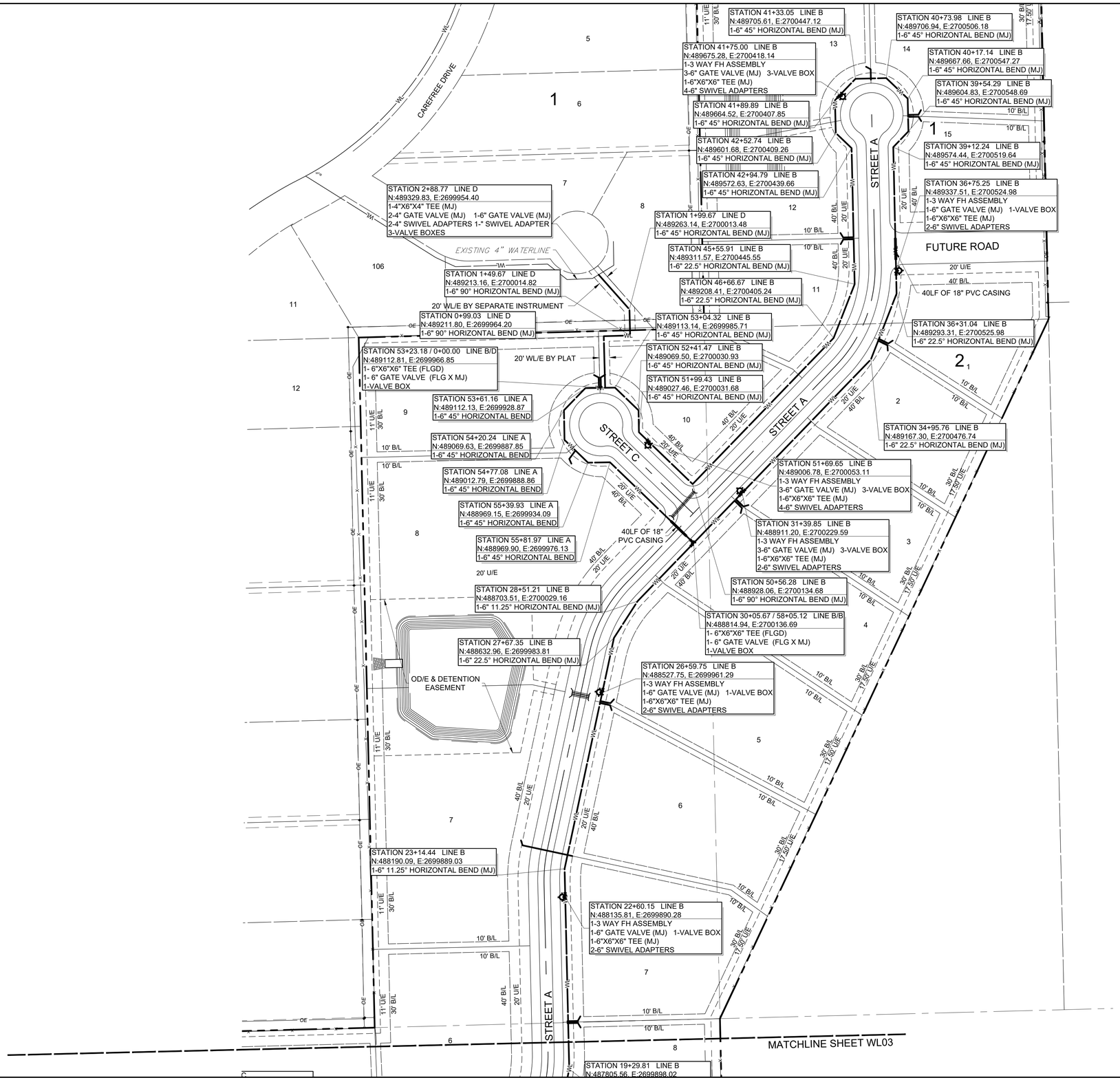

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HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21641
OKLAHOMA

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NORTH WATERLINE PLAN

WL04

04 OF 13

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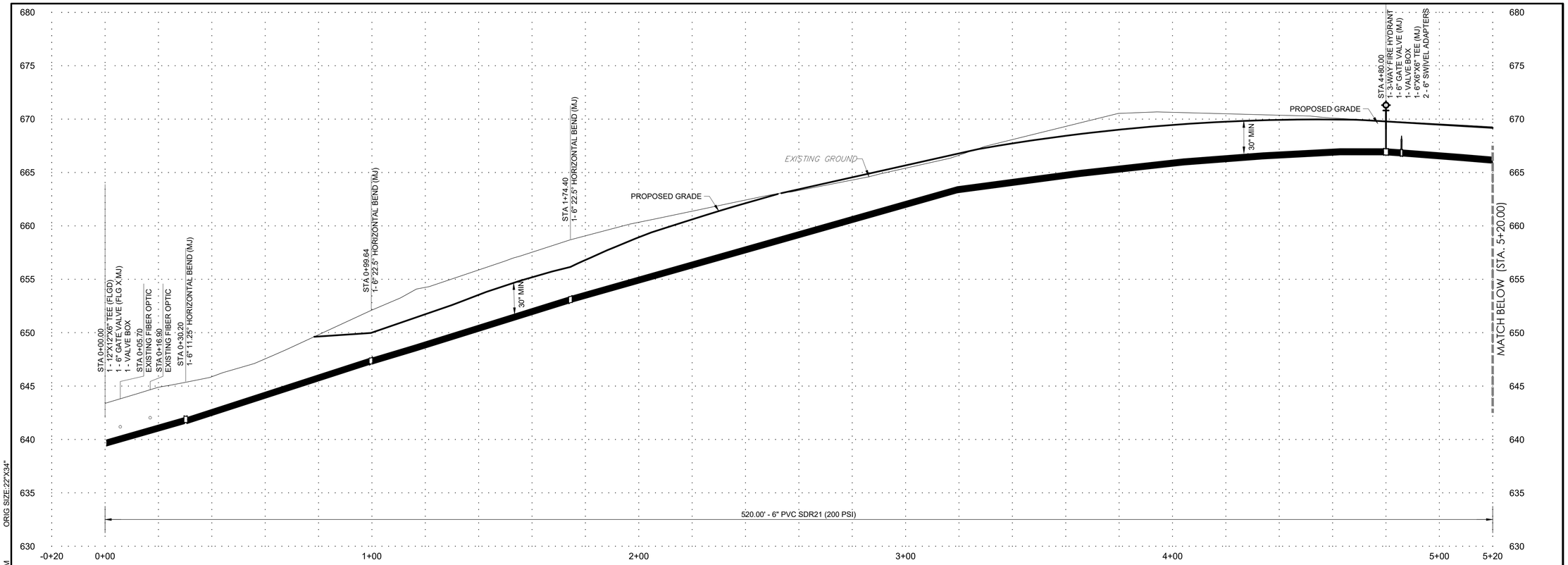

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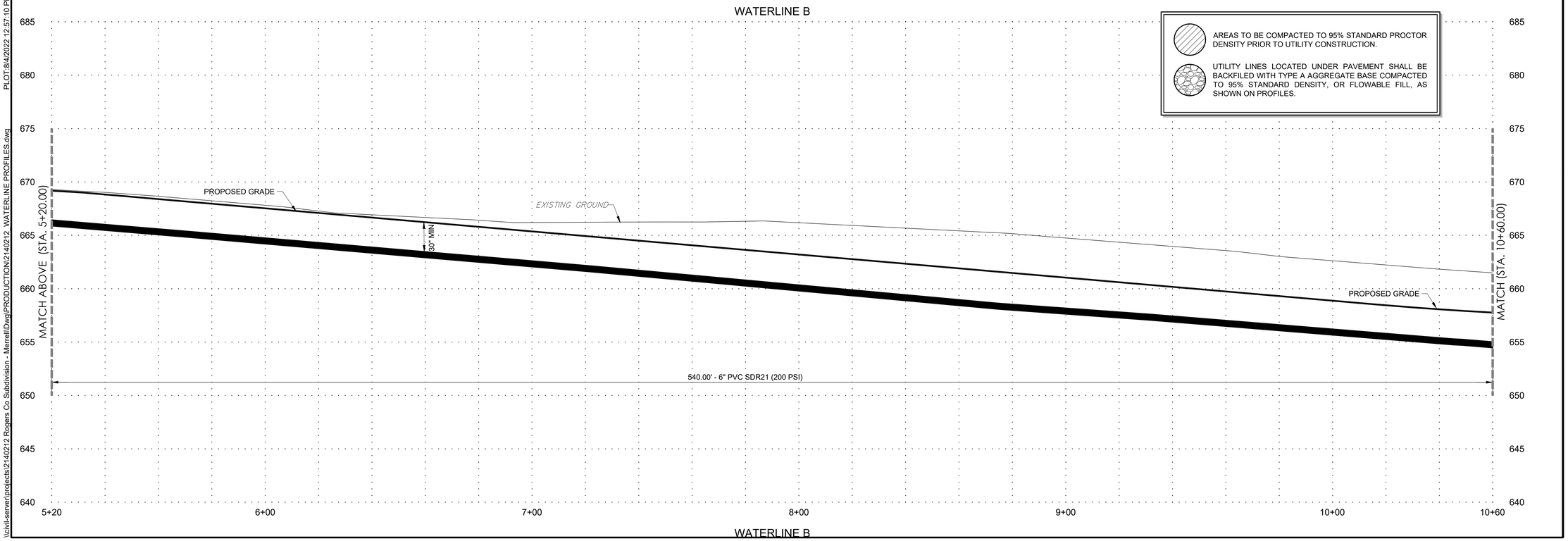

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WATERLINE PROFILES 1

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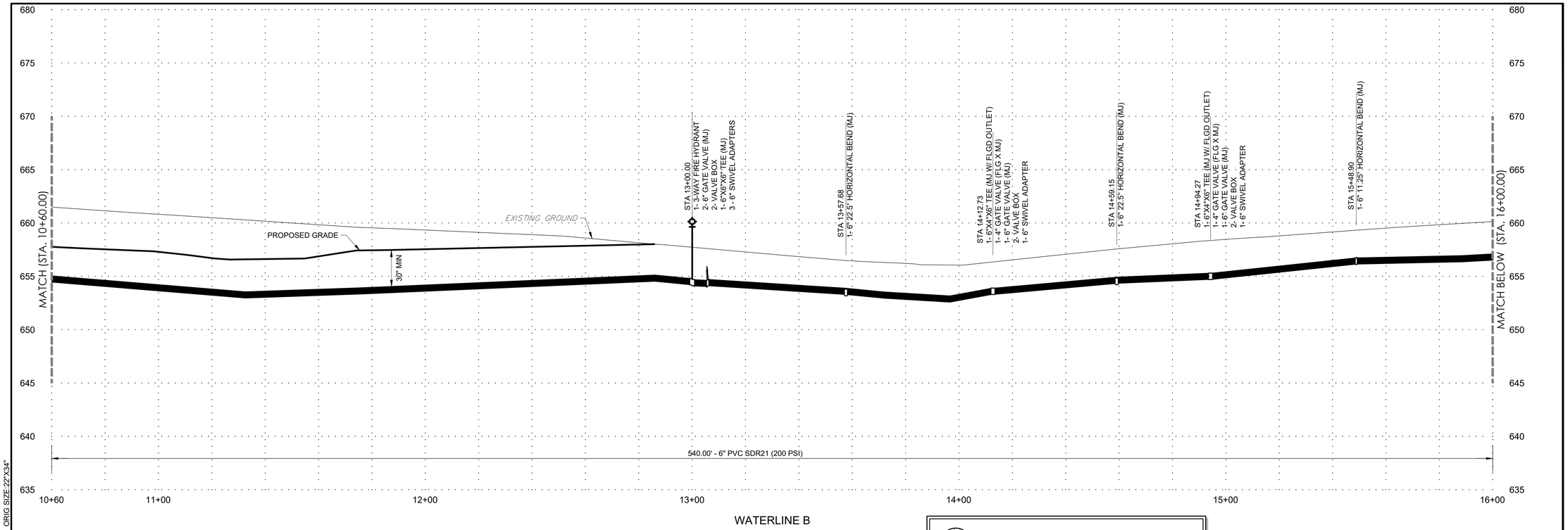
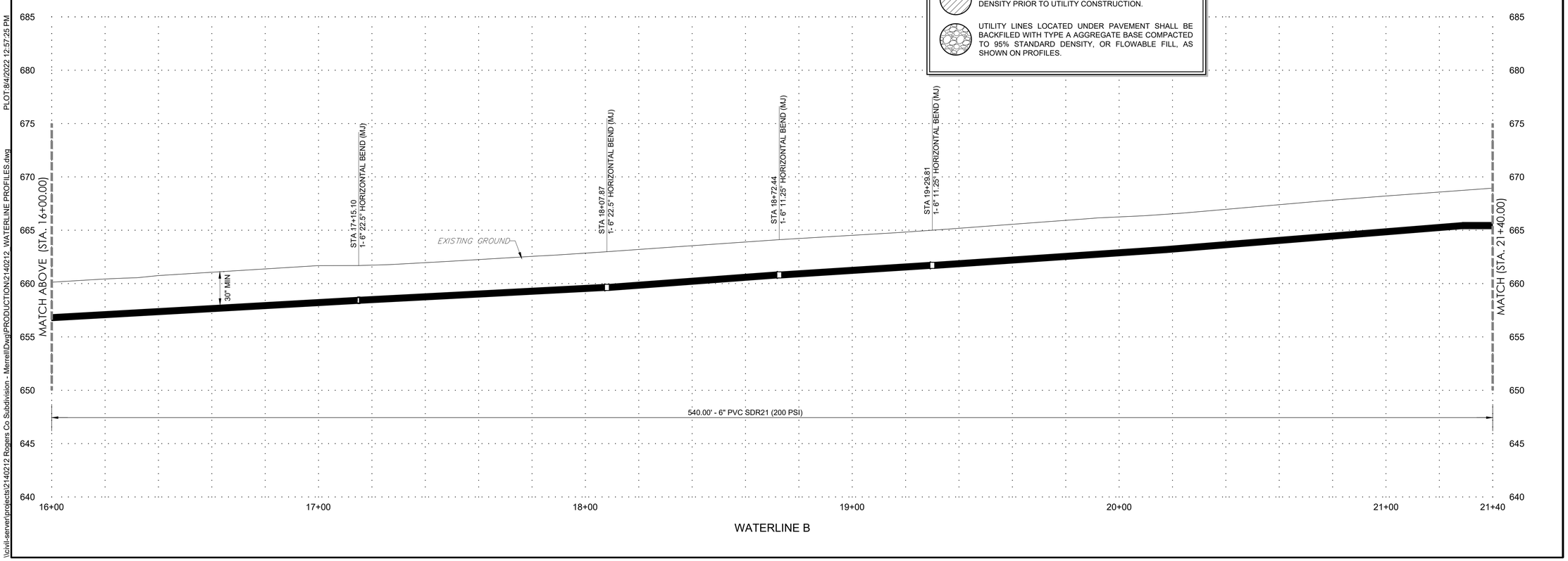


AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.



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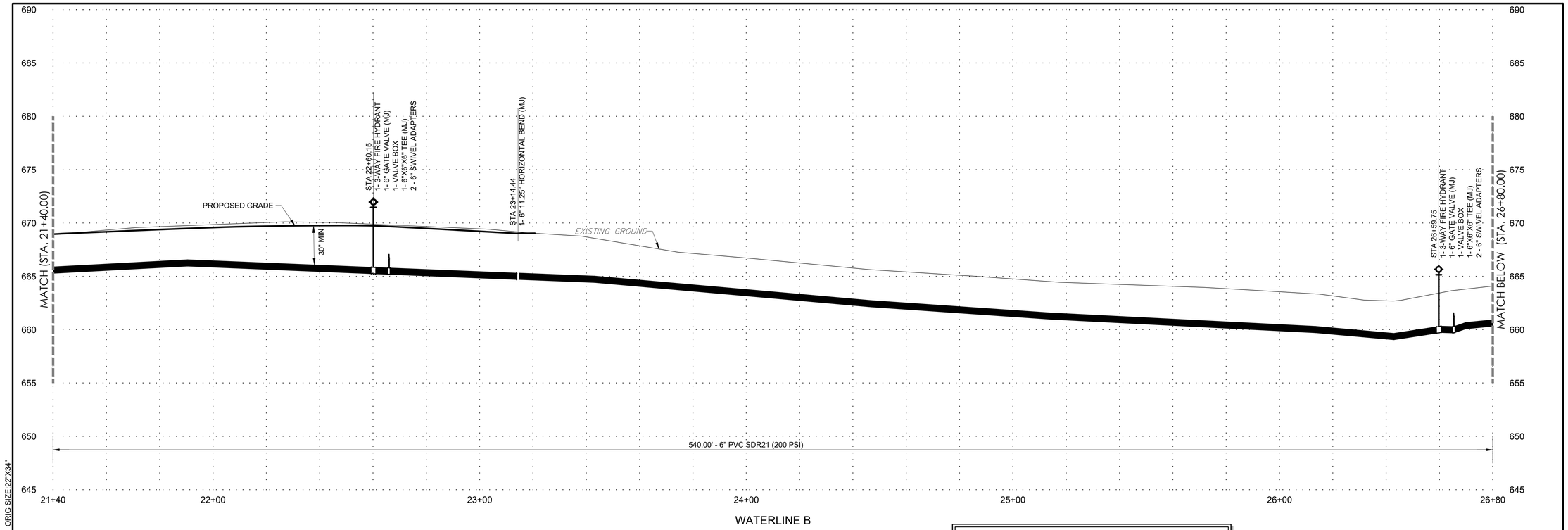
WATERLINE PROFILES 2

WL06



WATERLINE B

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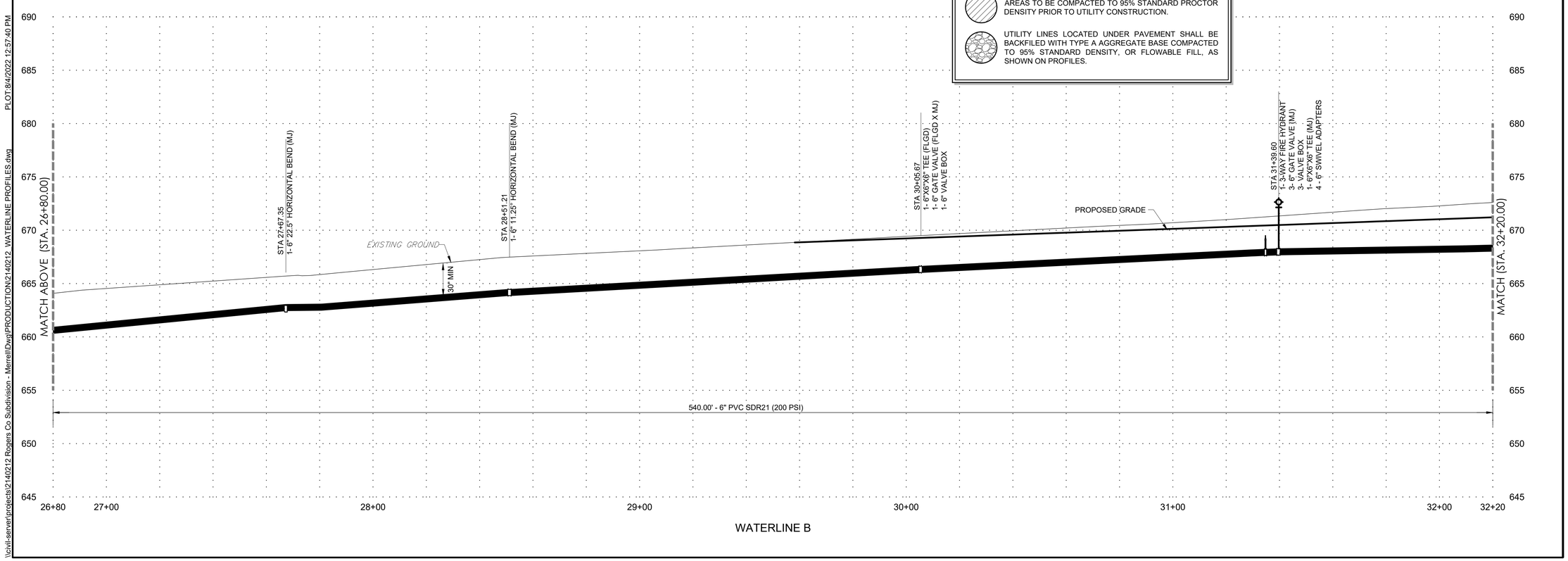

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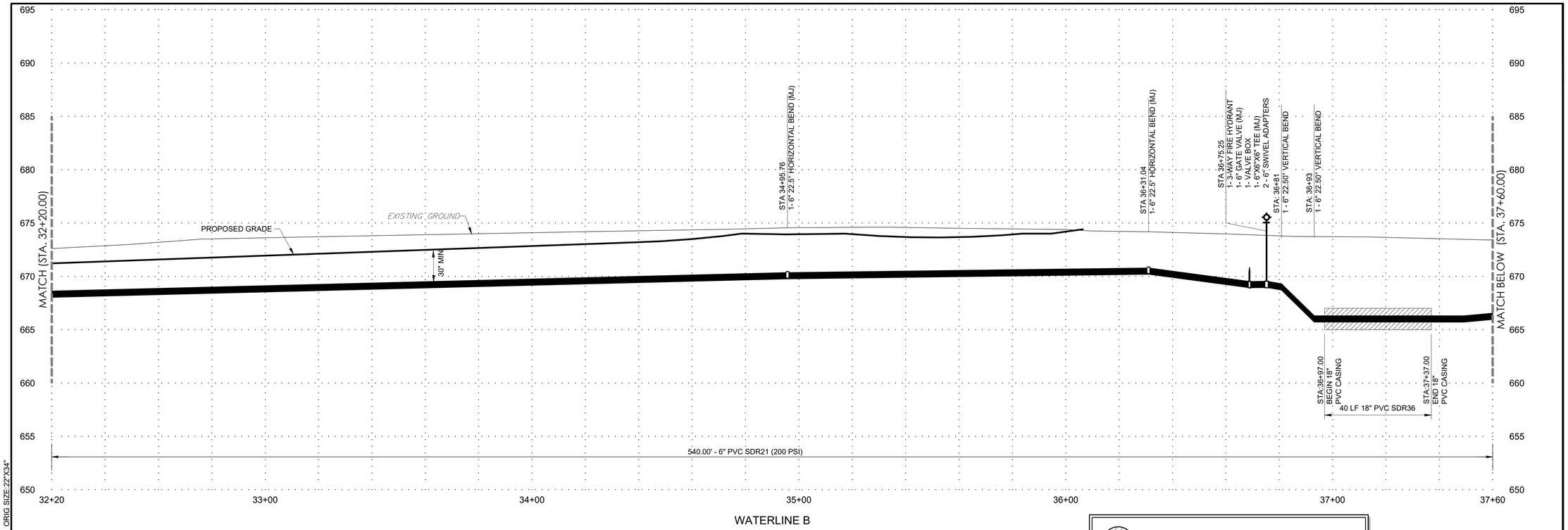
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

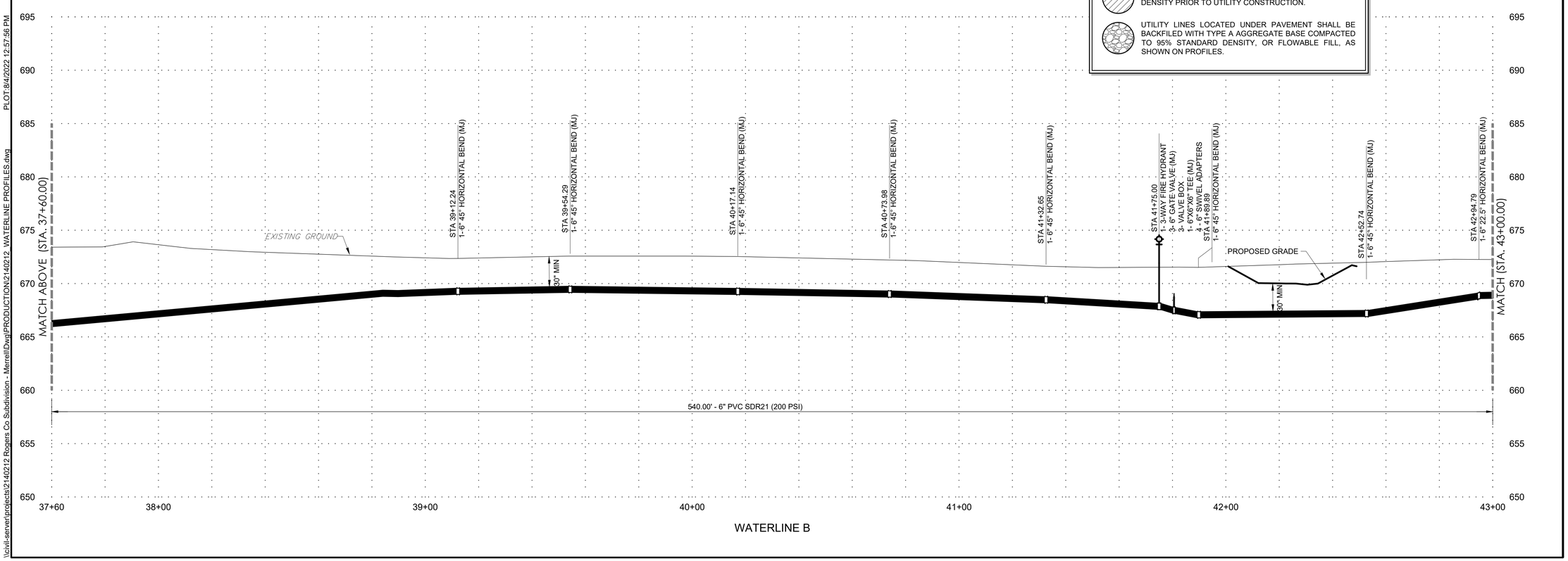
WATERLINE PROFILES 3

WL07



AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.



ORIG SIZE 22"X34"

PLOT:8/4/2022 12:57:56 PM

\\civil-server\projects\21140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\21140212_WATERLINE PROFILES.dwg

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ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT RURAL WATER DISTRICT #7 STANDARDS.

HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21511
OKLAHOMA

2-15-2022

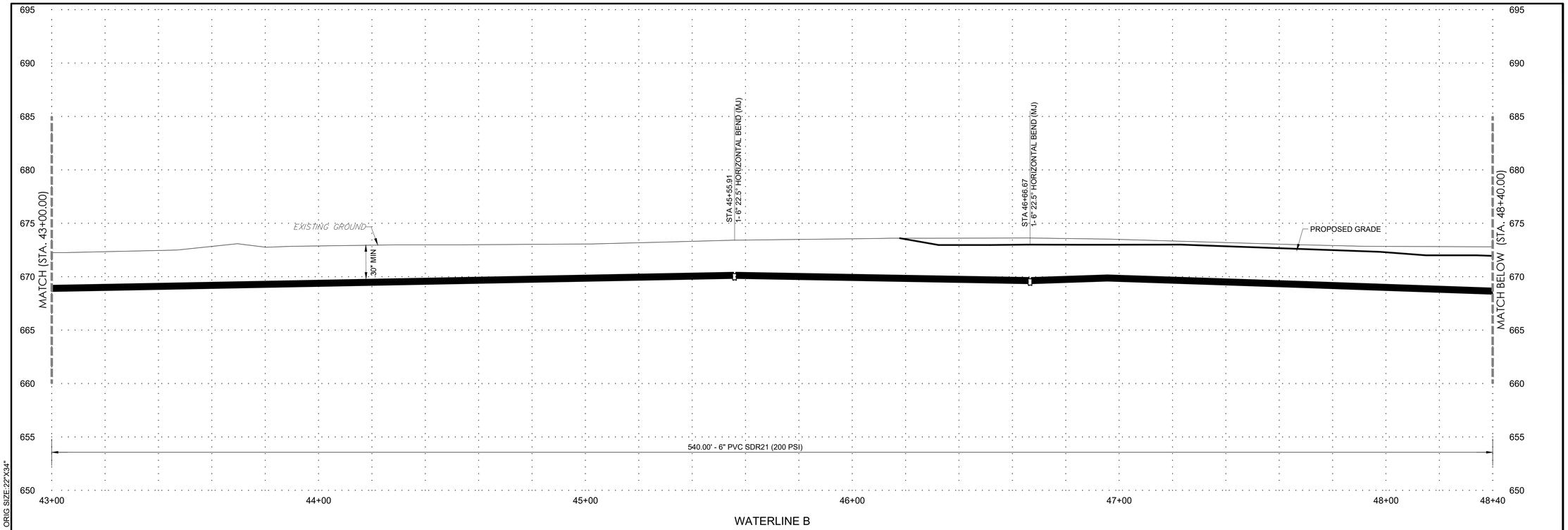
ISSUE LOG

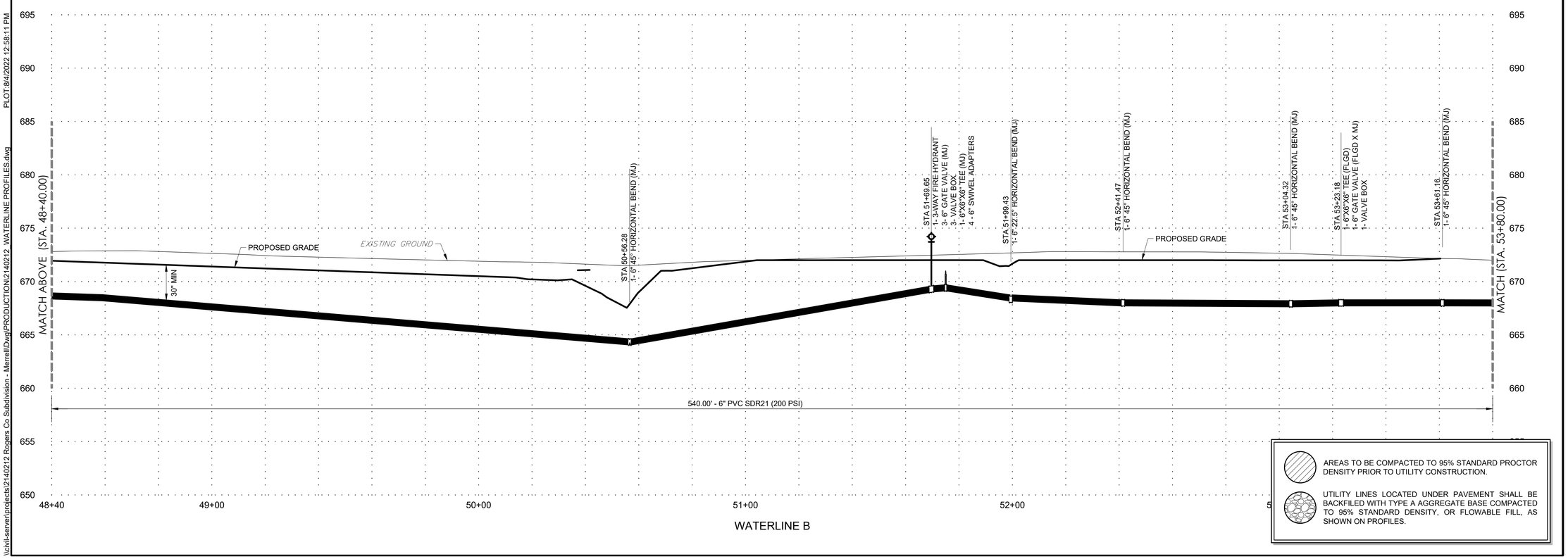
#	DATE	DESCRIPTION
1	2.15.2022	RWD SUBMITTAL
2	8.4.2022	RWD RESUBMITTAL

HORT SCALE	•	1"= 20'
VERT SCALE	•	1"=5'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

WATERLINE PROFILES 4

WL08





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ORIG SIZE:22"X34"

PLOT:8/4/2022 12:58:11 PM

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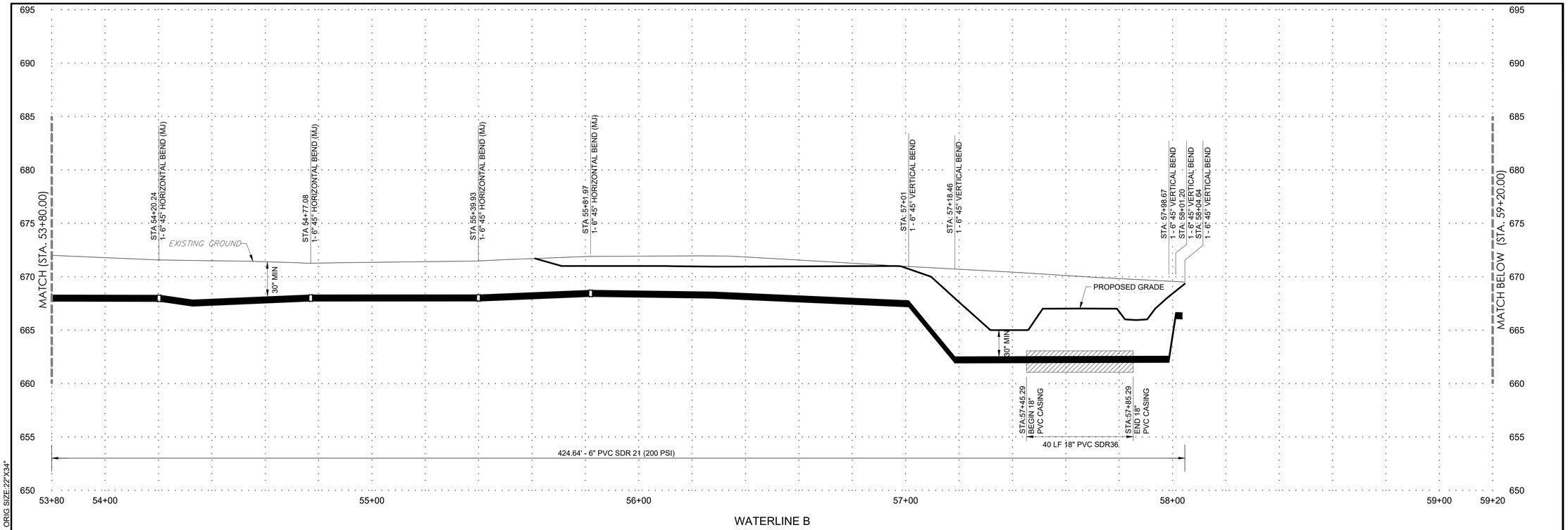
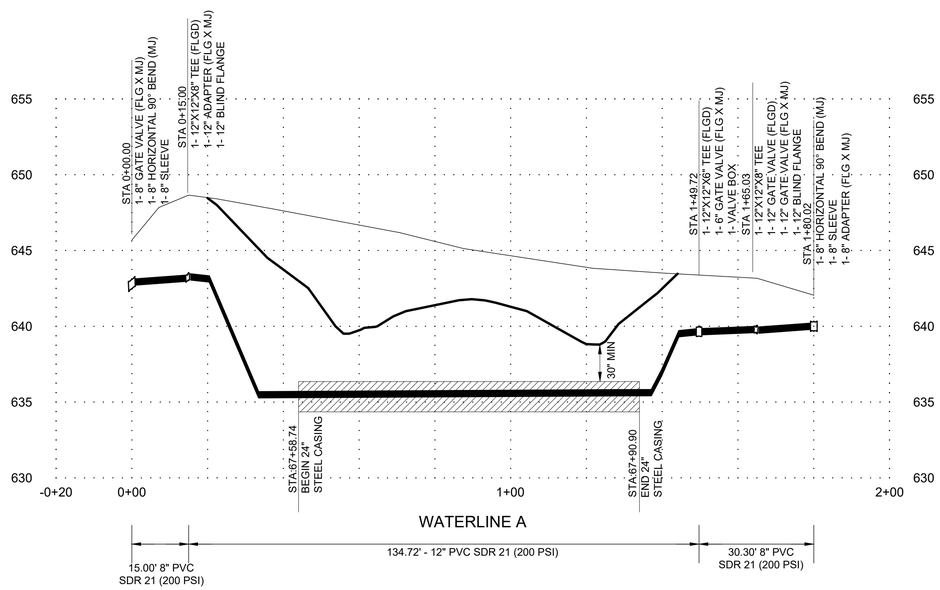
VERT SCALE	•	1"=5'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

WATERLINE PROFILES 5

WL09





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ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

WATERLINE PROFILES 6

WL10

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MATCH (STA. 64+60.00)

NOT USED

AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

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ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER
A. NICOLE WATTS
21611
OKLAHOMA

2-15-2022

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VERT SCALE	•	1"=5'
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ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

WATERLINE PROFILES 7

WL11

ORIG SIZE:22"X34"
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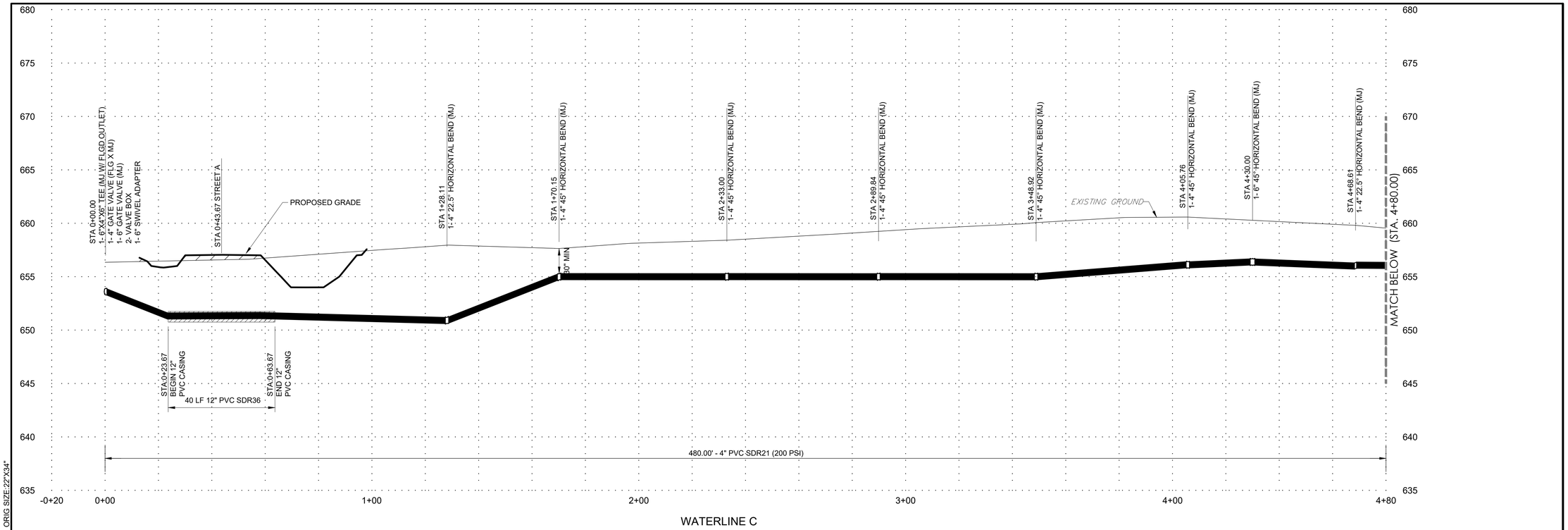
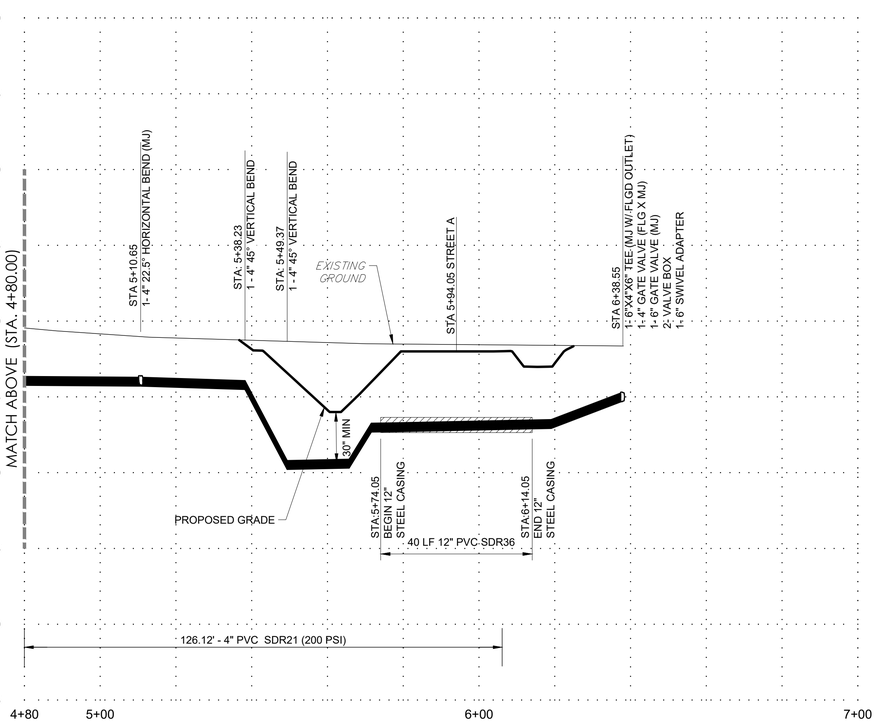


WATERLINE C



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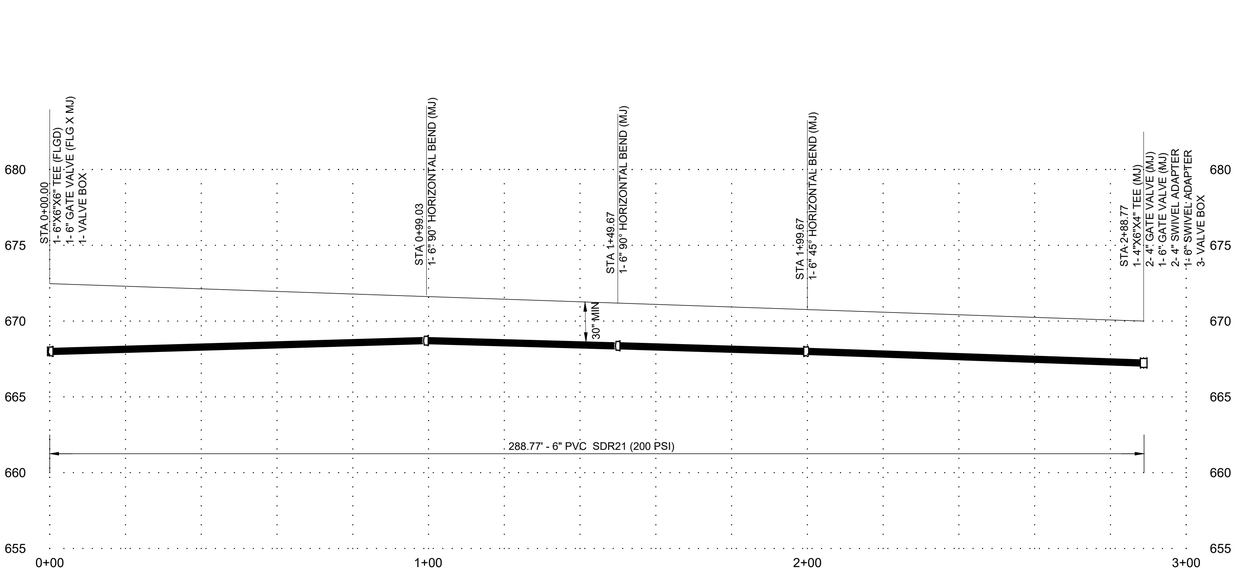

WATERLINE D

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ORIG SIZE 22"X34"

PLOT:8/4/2022 12:58:41 PM

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HUNTER'S BEND

ROGERS COUNTY , OKLAHOMA

REGISTERED PROFESSIONAL ENGINEER A. NICOLE WATTS 21641 OKLAHOMA

2-15-2022

ISSUE LOG

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2	8.4.2022	RWD RESUBMITTAL

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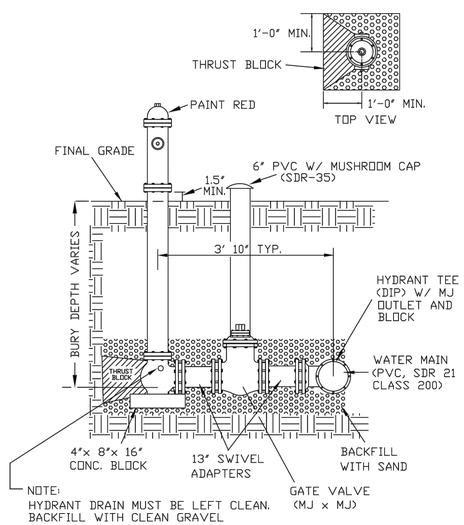
VERT SCALE	•	1"=5'
IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

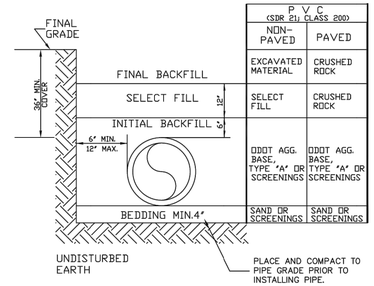
WATERLINE PROFILES 8

WL12

NOTES:
FIRE HYDRANTS TO BE MUELLER A-421.
FLUSHING HYDRANTS SHALL BE MUELLER SUPER CENTURION 200, MODEL A-420
ALL FIRE HYDRANTS TO USE 6" MJ SHOE (MIN.)



Fire and Flushing Hydrant Detail — REV 1
Rogers County Rural Water District No. 7
REVISION DATE: MAY 16, 2022

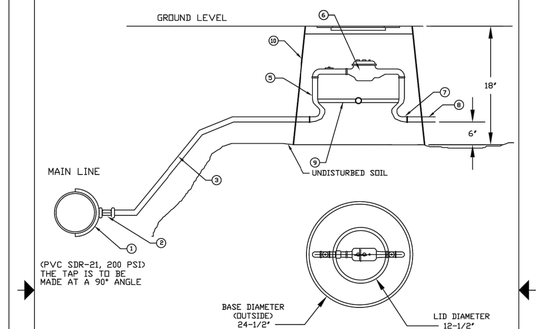


	P V C (SDR 21; CLASS 200)	
	NON-PAVED	PAVED
FINAL BACKFILL	EXCAVATED MATERIAL	CRUSHED ROCK
SELECT FILL	SELECT FILL	CRUSHED ROCK
INITIAL BACKFILL	ODOT AGG. BASE, TYPE "A" OR SCREENINGS	ODOT AGG. BASE, TYPE "A" OR SCREENINGS
BEDDING MIN.4"	SAND OR SCREENINGS	SAND OR SCREENINGS

NOTES:
1. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE "A" BASE
3. COMPACTION REQUIREMENTS:
   a. NON- PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS.
4. FILLS OVER 10 FEET DEEP - MATERIAL IN THE AREA FROM SELECT FILL TO BEDDING SHALL BE 3/4" CRUSHER RUN WELL GRADED.
5. FLOWABLE FILL MAY BE SUBSTITUTED FOR ALL MATERIALS IN ROAD CROSSING.
6. IN AREAS WHERE WATER INFILTRATION CANNOT BE CONTROLLED, BEDDING AND INITIAL BACKFILL SHALL BE MATERIAL CONFORMING TO ODOT SECTION 703.04(a).

APPROX. SCALE: NONE

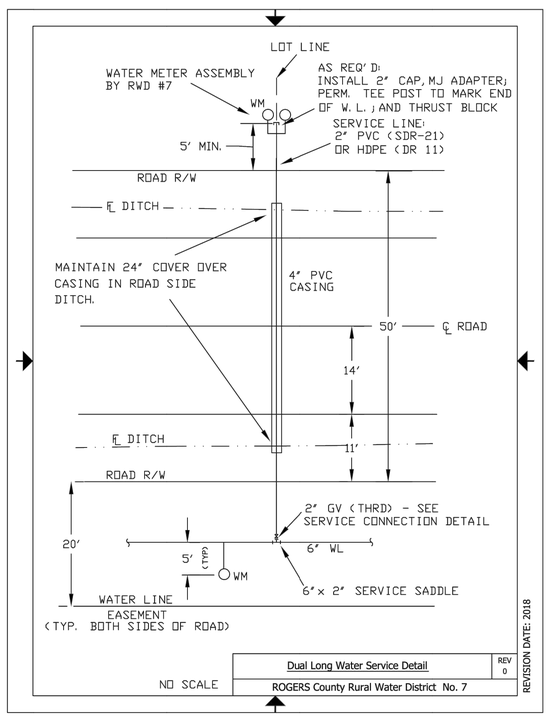
Trench Section Detail — REV 0
Rogers County Rural Water District No. 7
REVISION DATE: MAR. 18, 2008



1. FORD BRASS TAPPING SADDLE (S71)
2. CORPORATION STOP - FORD MODEL F-1100 OR MUELLER H-15028
3. POLYETHYLENE PIPE (CTS, SDR-9, CLASS 200). INSERT STIFFENERS REQUIRED
4. NOT USED
5. CTS BY DUAL PURPOSE SETTER
   A. 5/8" x 3/4" INSTALLATION - FORD VH72-7W-48-33, 7" RISE
   B. 1" INSTALLATION - FORD VH74-10W-48-44, 10" RISE
6. 3/4" TO 1" SENSUS IPERL METER WITH RADIO READ PIT MODULE
7. DUAL PURPOSE FITTING
8. CUSTOMER SERVICE
9. STABILIZER BAR
10. 5/8" x 3/4" INSTALLATION - USE CARSON-BROOKS METER CAN MODEL 2200-18 W/ PLASTIC LID AND EXTENSIONS AS REQUIRED
    1" INSTALLATION - USE CARSON-BROOKS JUMBO METER CAN MODEL 012-5 W/ PLASTIC LID AND EXTENSIONS AS REQUIRED

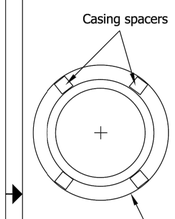
APPROX. SCALE: NONE

Water Service Meter Standard - 1" & 5/8" x 3/4" — REV 3
Rogers County Rural Water District No. 7
REVISION DATE: AUG. 18, 2021



NO SCALE

Dual Long Water Service Detail — REV 0
ROGERS County Rural Water District No. 7
REVISION DATE: 2018



CASING PIPE 30 FEET OR LESS

PVC WL Dia.	Min. Casing Dia. PVC(1)	Min. Casing Dia. Steel
2"	6"	6"
4"	8"	8"
6"	10"	10"
8"	15"	14"
10"	15"	16"
12"	21"	20"

(1) PVC Casing shall be SDR 35

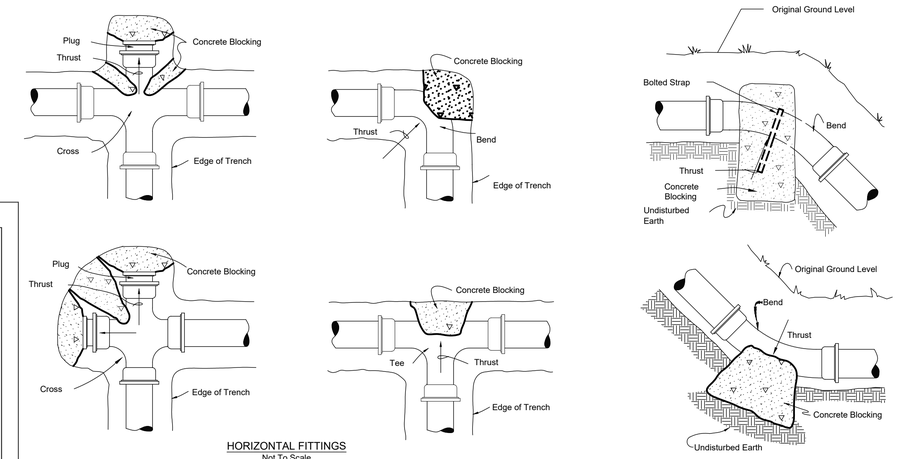
CASING PIPE LONGER THAN 30 FEET

PVC WL Dia.	Min. Casing Dia.(2) PVC(1)	Min. Casing Dia.(2) Steel
2"	8"	8"
4"	12"	12"
6"	15"	16"
8"	18"	18"
10"	20"	20"
12"	24"	24"

(2) Pipe bell joint restraints are required.

STEEL OR PVC (See Spec's)

Casing Required for PVC Water Line — REV 0
Rogers County Rural Water District No. 7
REVISION DATE: 2022



HORIZONTAL FITTINGS
Not To Scale

VERTICAL BENDS
Not To Scale

6 TYPICAL THRUST BLOCKING
SCALE: NTS

TABLE IS BASED ON 210PSI INTERNAL PRESSURE AND 1000PSF ALLOWABLE SOIL BEARING PRESSURE. VALUES ARE APPROXIMATE AND ARE THE MINIMUMS ALLOWED. THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.

THRUST BLOCK NOTES:

1. USE 3,000PSI CONCRETE FOR ALL BLOCKING.
2. ALL BEARING AREAS SHALL BE ON UNDISTURBED EARTH.
3. BLOCKING SHALL BE PLACED SO THAT PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIR.
4. USE THRUST BLOCKS FOR CHANGES IN DIRECTION OF 11 1/4" OR GREATER (I.E. TEES, BENDS, AND CROSSES) CHANGES IN SIZE (I.E. REDUCERS), STOPS (I.E. PLUGS), VALVES AND HYDRANTS WHERE THRUST DEVELOPS WHEN CLOSED.
5. RESTRAINED JOINT SYSTEMS (MEGALUGS), AS WELL AS THRUST BLOCKING, SHALL BE INSTALLED ON ALL VERTICAL BENDS.
6. WRAP PIPE IN PLASTIC COVERING PRIOR TO PLACING THE CONCRETE. THE PLASTIC WILL BE LARGE ENOUGH TO ADEQUATELY COVER THE PIPE AND EXTERIOR BEYOND THE AREA OF THE CONCRETE.

Thrust Block Bearing Areas & Concrete Volumes

Pipe Size	90 Bend SF	90 Bend CF	45 Bend SF	45 Bend CF	22.5 Bend SF	22.5 Bend CF	Plug/Tee SF	Plug/Tee CF
2.0	0.47	0.50	0.25	0.50	0.13	0.50	0.66	0.50
4.0	1.87	0.99	1.01	0.54	0.51	0.50	2.64	1.40
6.0	4.20	1.98	2.27	1.07	1.16	0.55	5.94	2.80
8.0	7.46	4.48	4.04	2.43	2.06	1.24	10.56	6.34
10.0	11.66	8.49	6.31	4.59	3.22	2.34	16.49	12.00
12.0	16.79	10.91	9.09	5.90	4.63	3.01	23.75	15.43
16.0	25.86	20.59	16.16	11.14	8.24	5.68	42.22	29.11

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2-15-2022

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IDP NO.	•	-
ATLAS NO.	•	
MANAGER	•	ANW
DRAWN BY	•	ASB

WATERLINE DETAILS
WL13

ORIG SIZE:22"X34"
PLOT:8/4/2022 12:58:49 PM
\\civil-server\projects\2140212 Rogers Co Subdivision - Merrell\Dwg\PRODUCTION\2140212_OVERALL WATERLINE PLAN.dwg