

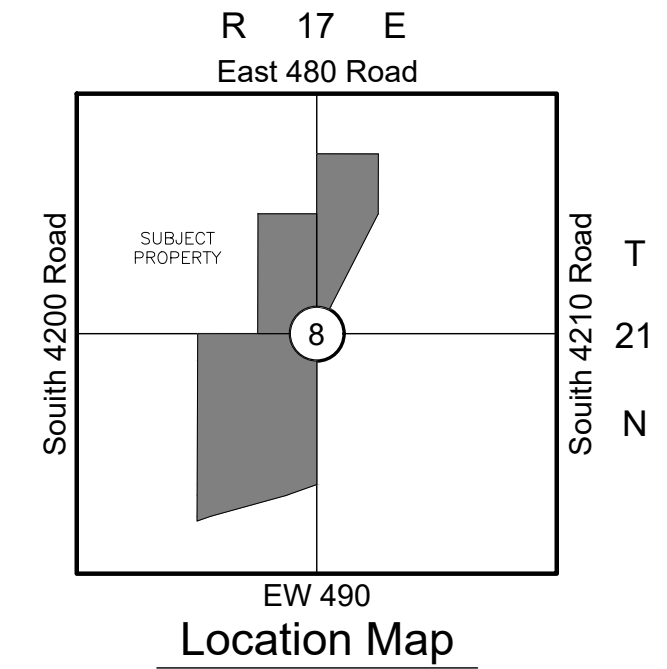
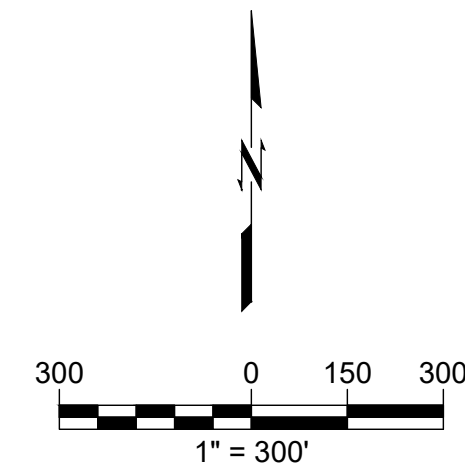
Waterline Plans for HUNTER'S BEND

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

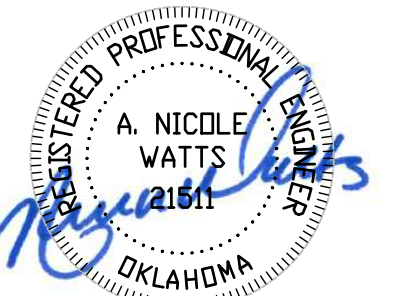


wallace design collective, pc
structural - civil - landscape - survey
123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
918.584.5858 - 800.364.5858
ca# 1460 exp. date 6/30/2023



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

HUNTER'S BEND
ROGERS COUNTY, OKLAHOMA

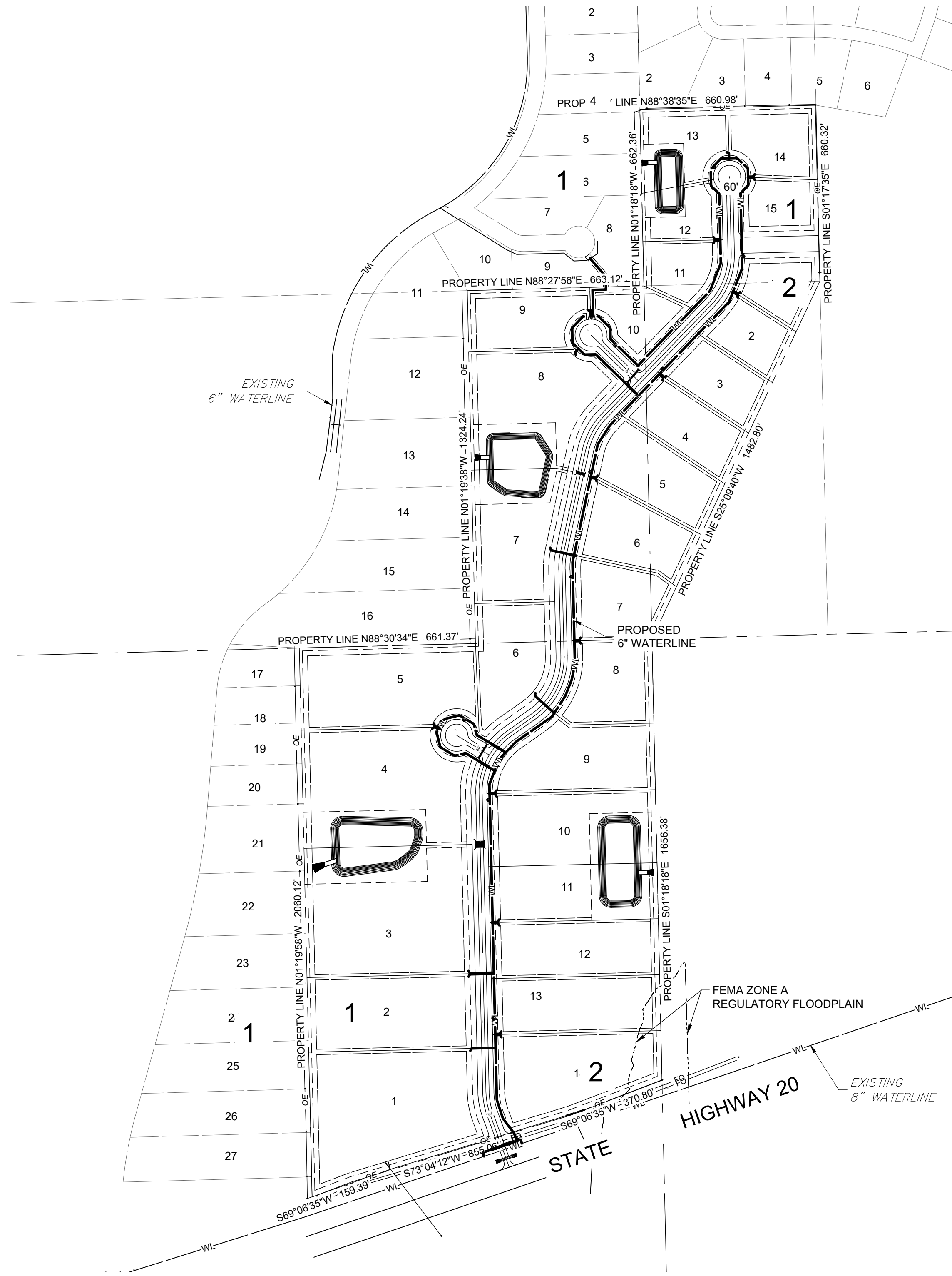


ISSUE LOG		
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2	8.4.2022	RWD RESUBMITTAL

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

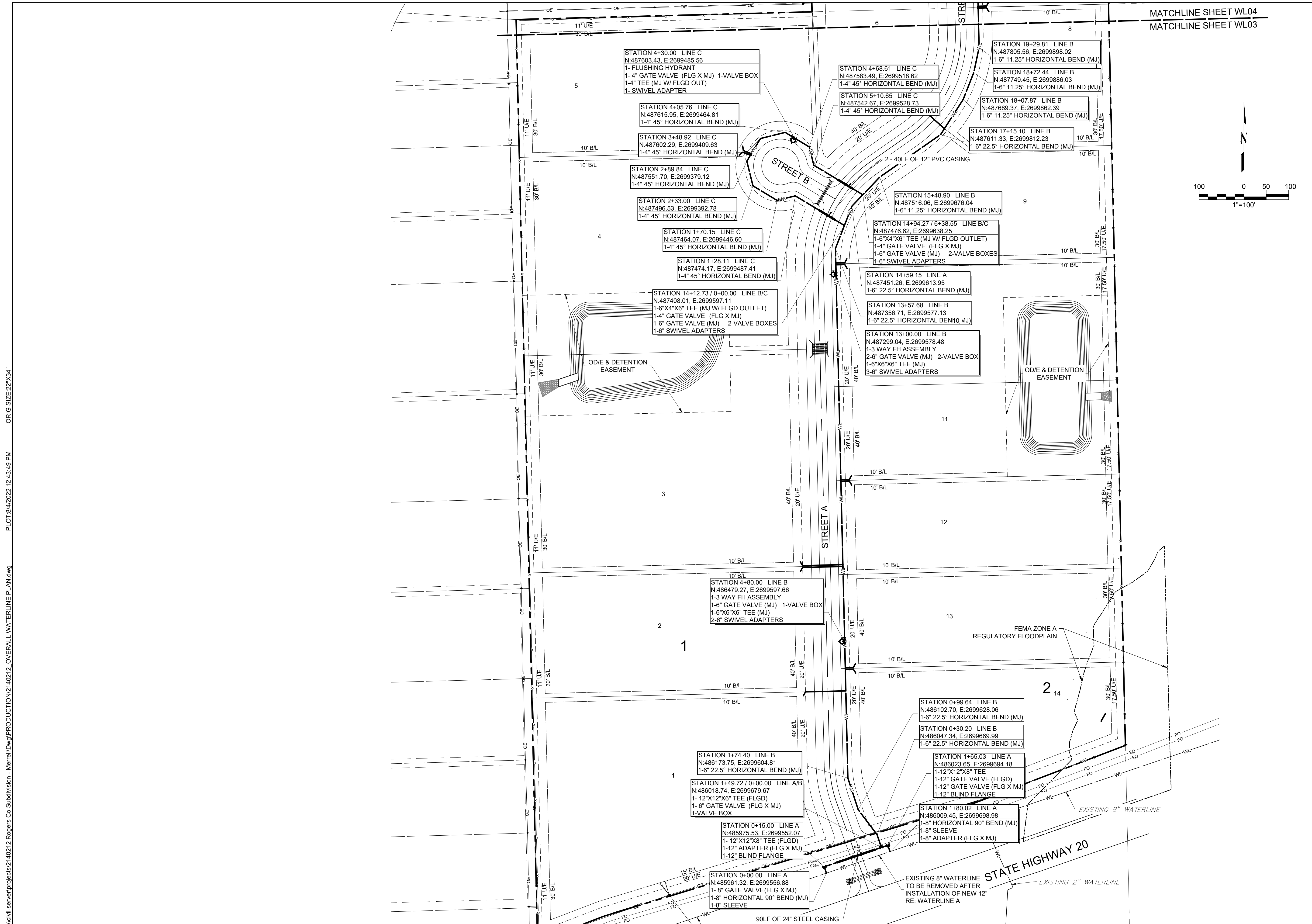
COVER SHEET
WL01
01 OF 13

Contact List	
WALLACE DESIGN COLLECTIVE, PC NICOLE WATTS 123 NORTH MARTIN LUTHER KING JR. BOULEVARD, TULSA, OK 74013 PHONE: (918) 584-5858	ALLEGIANCE COMMUNICATIONS 9952 E SPOTTED HORSE DR CLAREMORE, OK 74019 PHONE: (918) 342-0619
ROGERS COUNTY PLANNING COMMISSION 200 S. LYNN RIGGS BLVD CLAREMORE, OKLAHOMA 74017 PHONE: (918) 923-4874	OKLAHOMA NATURAL GAS SCOTT GIDEON - NEW SERVICE 5848 EAST 15TH STREET TULSA, OK 74112 PHONE: (918) 831-8386
VERDIGRIS VALLEY ELECTRIC DEPARTMENT 8901 E 146TH ST N COLLINSVILLE, OKLAHOMA 74021 PHONE: (918) 371-2584	



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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 ORIG SIZE: 22"X34"



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 ca# 1460 exp. date 6/30/2023



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 ACCORDANCE WITH CURRENT RURAL
 WATER DISTRICT #7 STANDARDS.

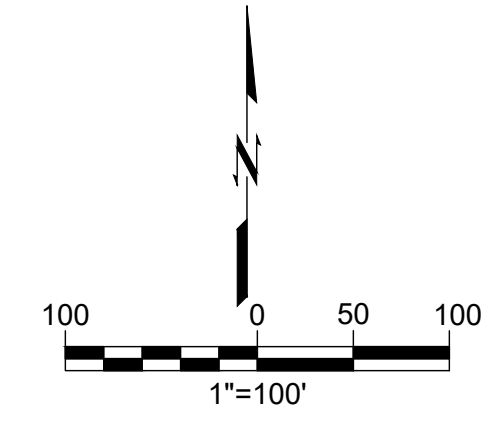
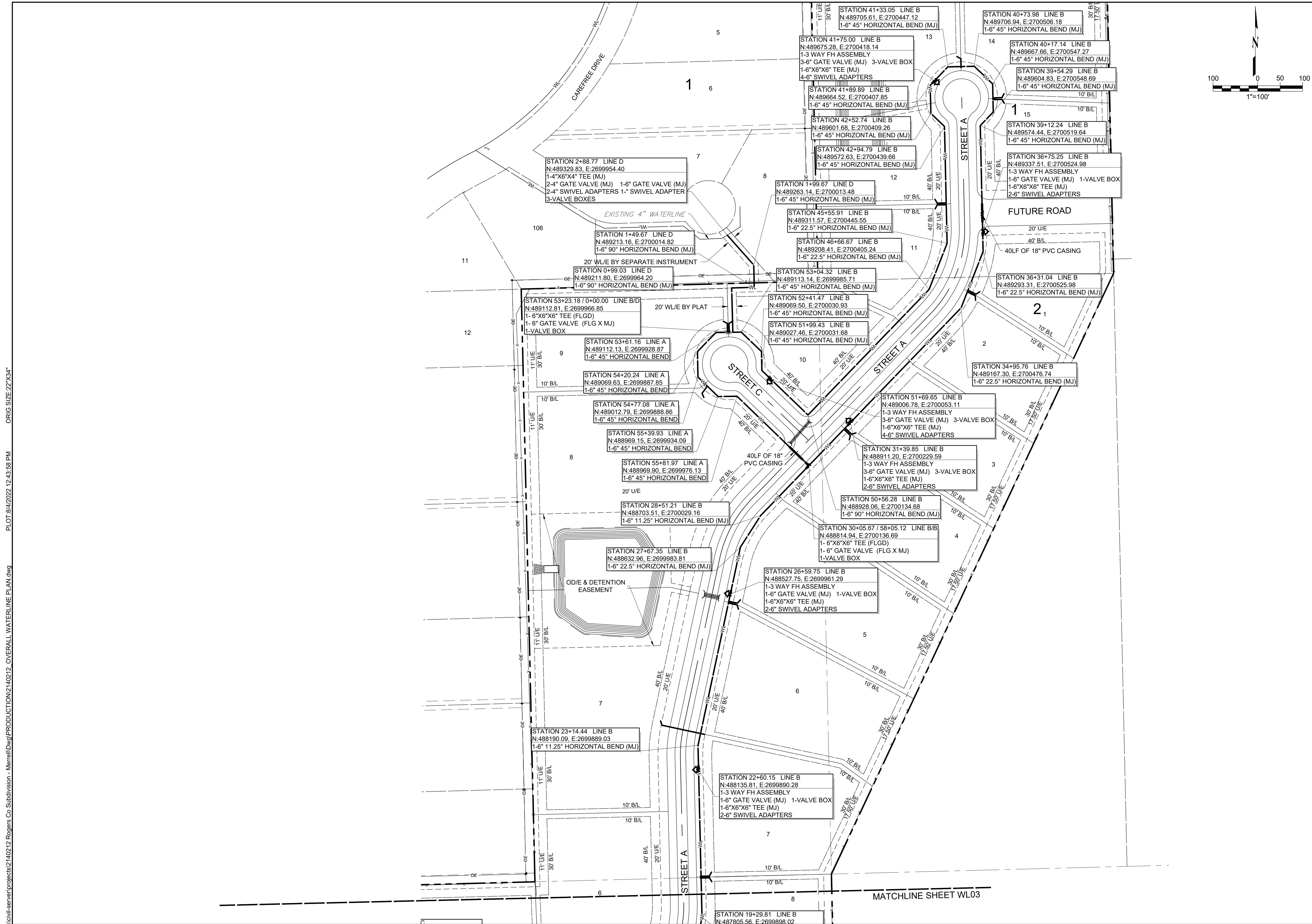
HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA



ISSUE LOG		
#	DATE	DESCRIPTION
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2	8.4.2022	RWD RESUBMITTAL

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 VERT SCALE . . . N/A
 IDP NO.
 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

SOUTH WATERLINE PLAN
WL03
03 OF 13



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HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA



ISSUE LOG		
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 IDP NO.
 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

NORTH WATERLINE PLAN
WL04

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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA



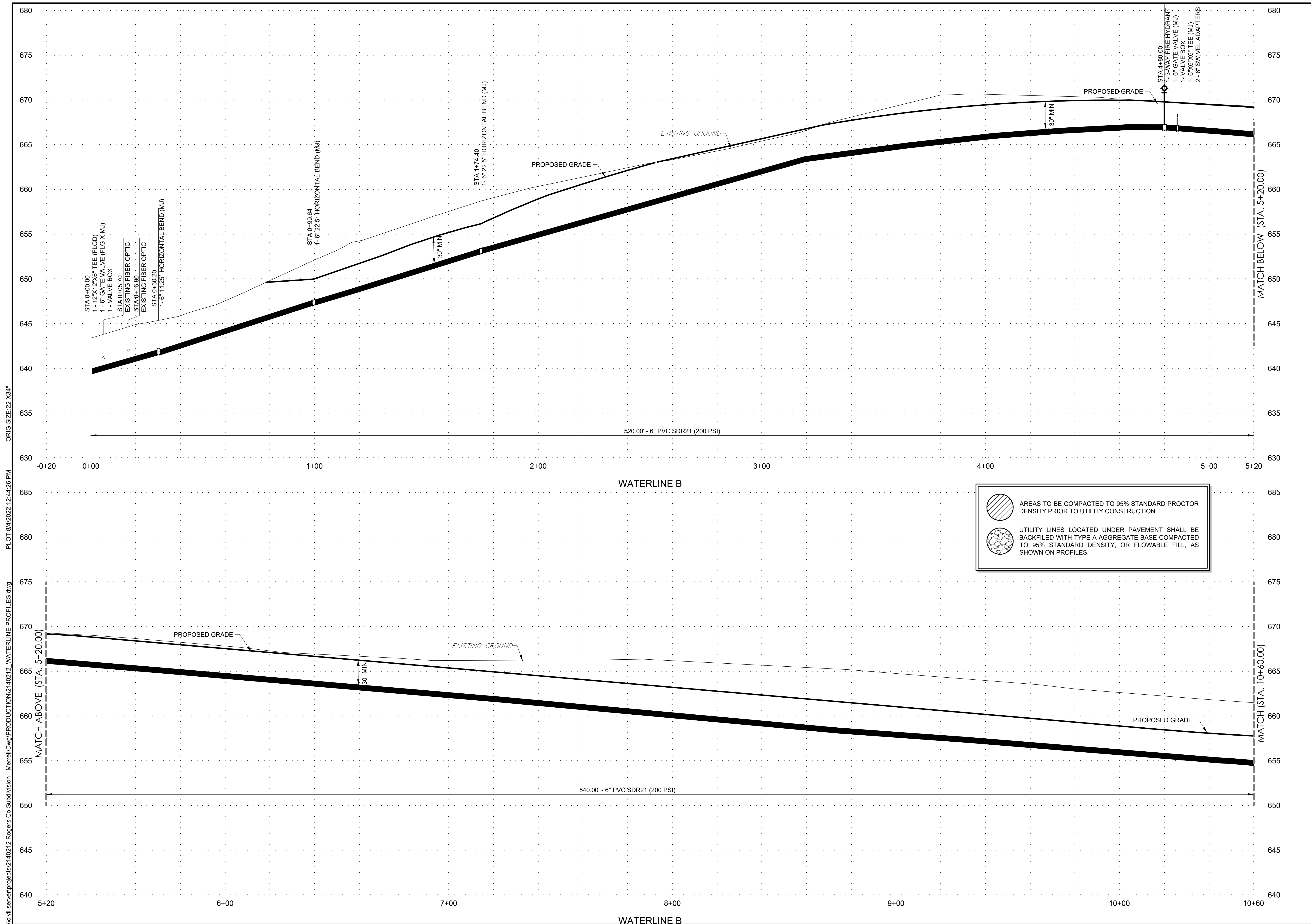
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 VERT SCALE . . . 1"=5'
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 ATLAS NO.
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 DRAWN BY ASB

WATERLINE PROFILES 1
WL05



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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA



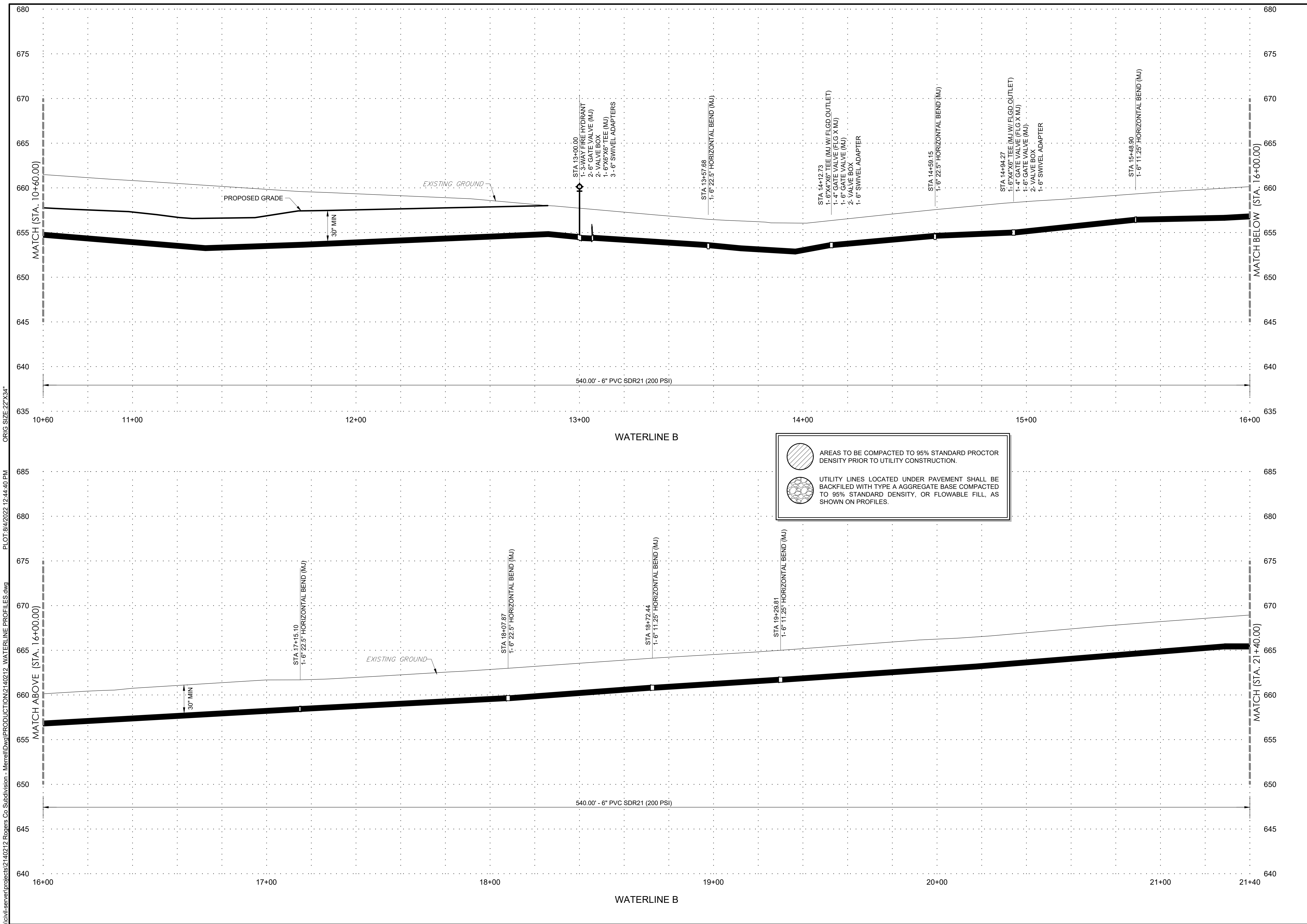
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 VERT SCALE • 1"=5'
 IDP NO. • -
 ATLAS NO. • -
 MANAGER • ANW
 DRAWN BY • ASB

WATERLINE PROFILES 2
WL06



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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA

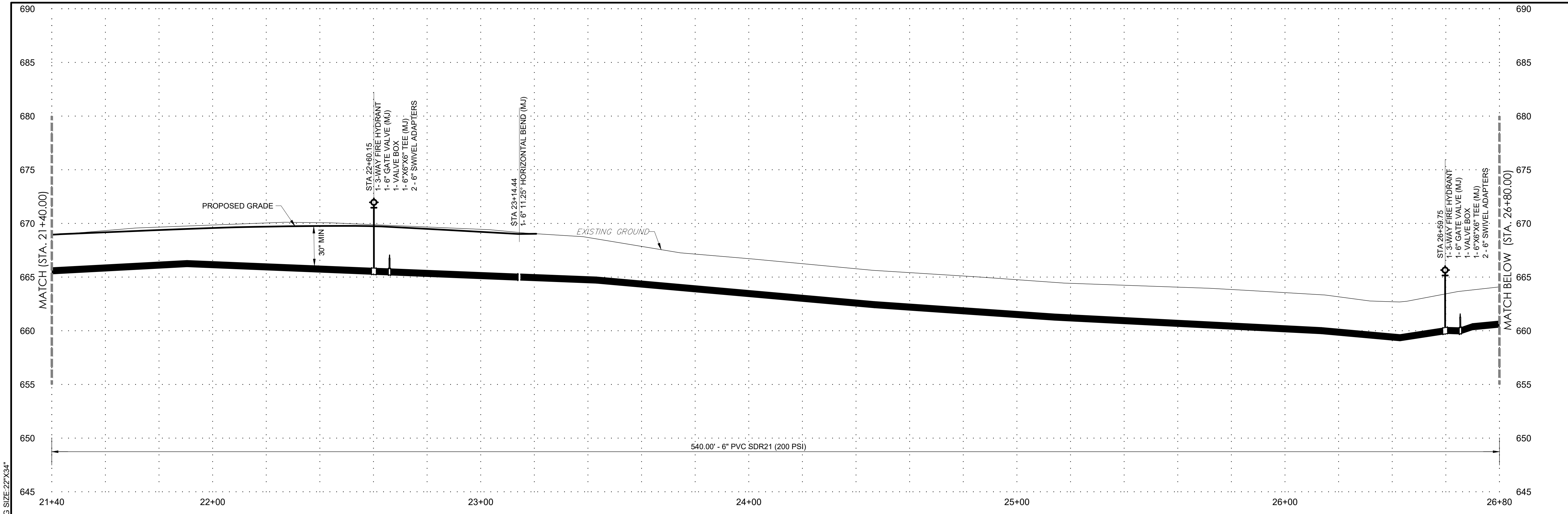


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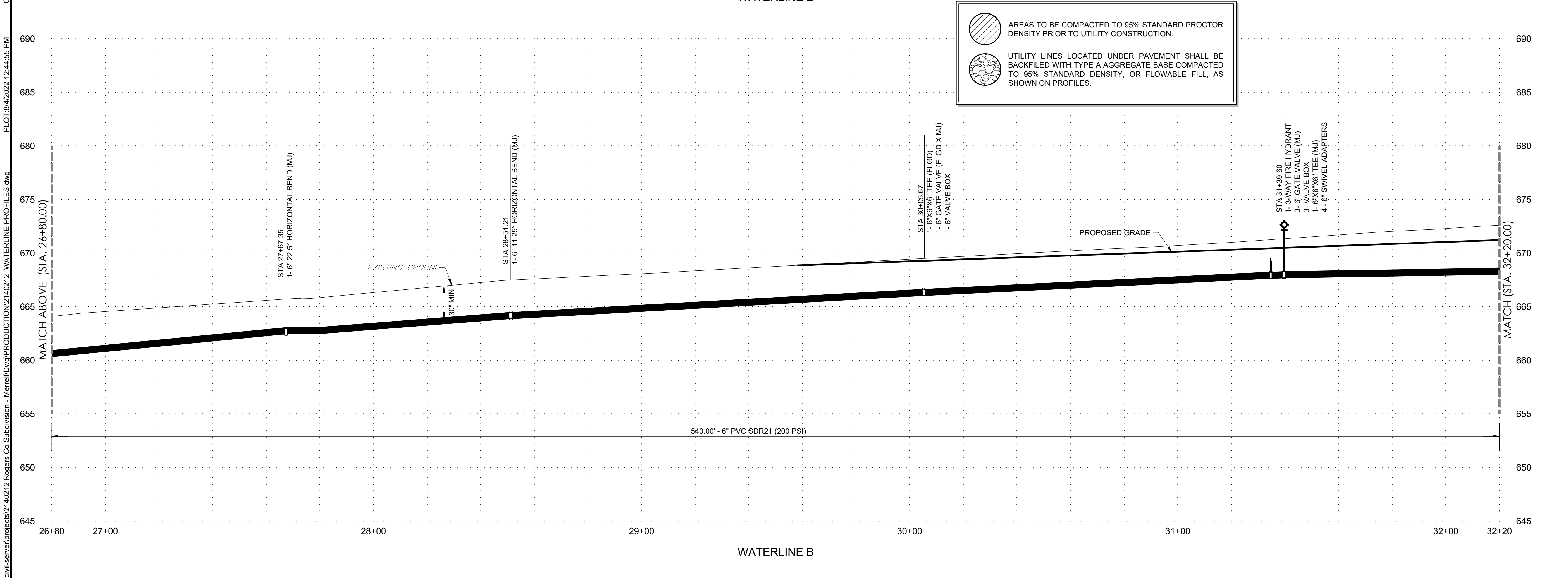
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 VERT SCALE . . . 1"=5'
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 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

WATERLINE PROFILES 3
WL07
 07 OF 13



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"
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 Rogers Co. Subdivision - Merrell\DWG\PRODUCTION\2140212



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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA

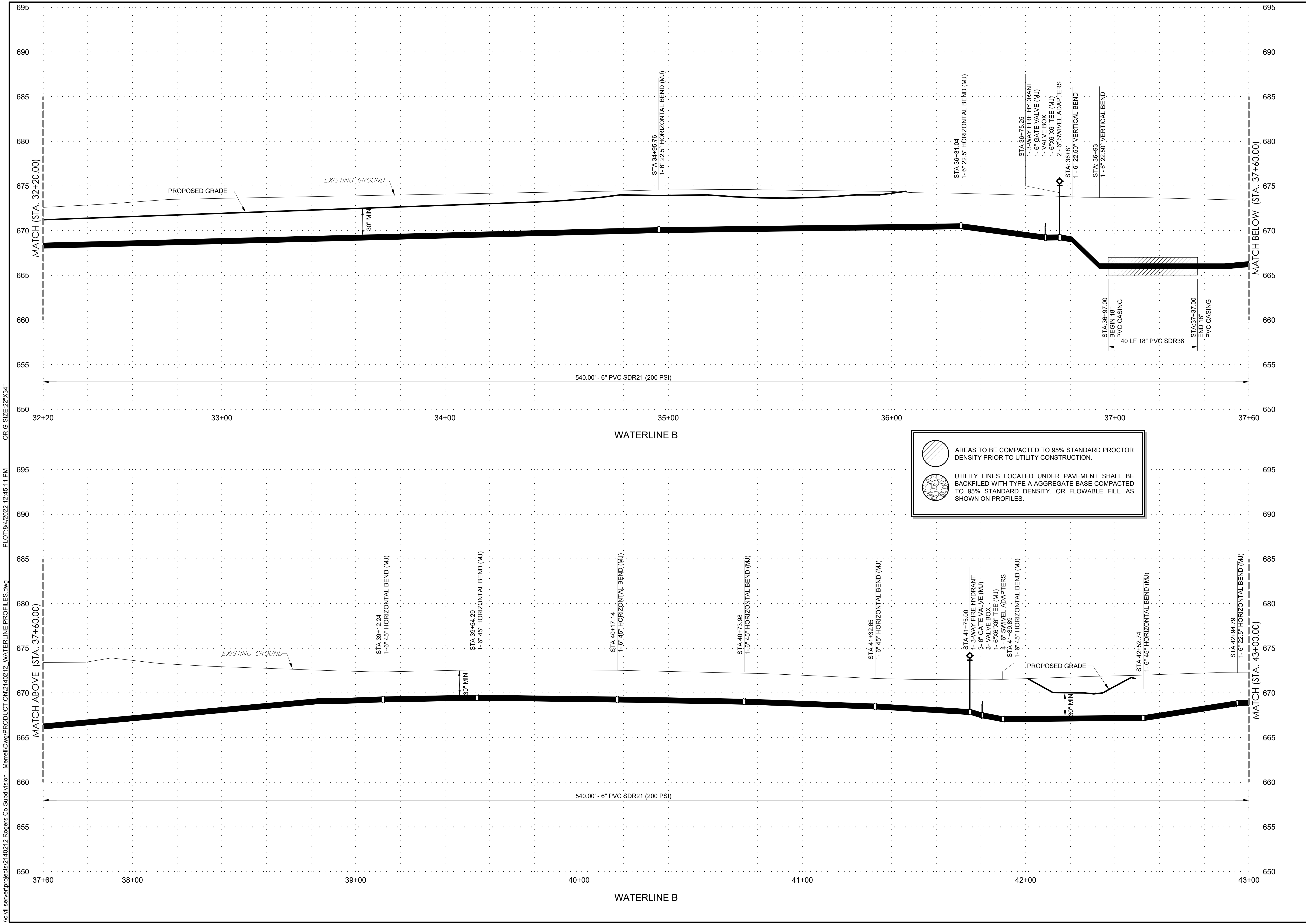


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 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

WATERLINE PROFILES 4
WL08



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

HUNTER'S BEND
ROGERS COUNTY, OKLAHOMA

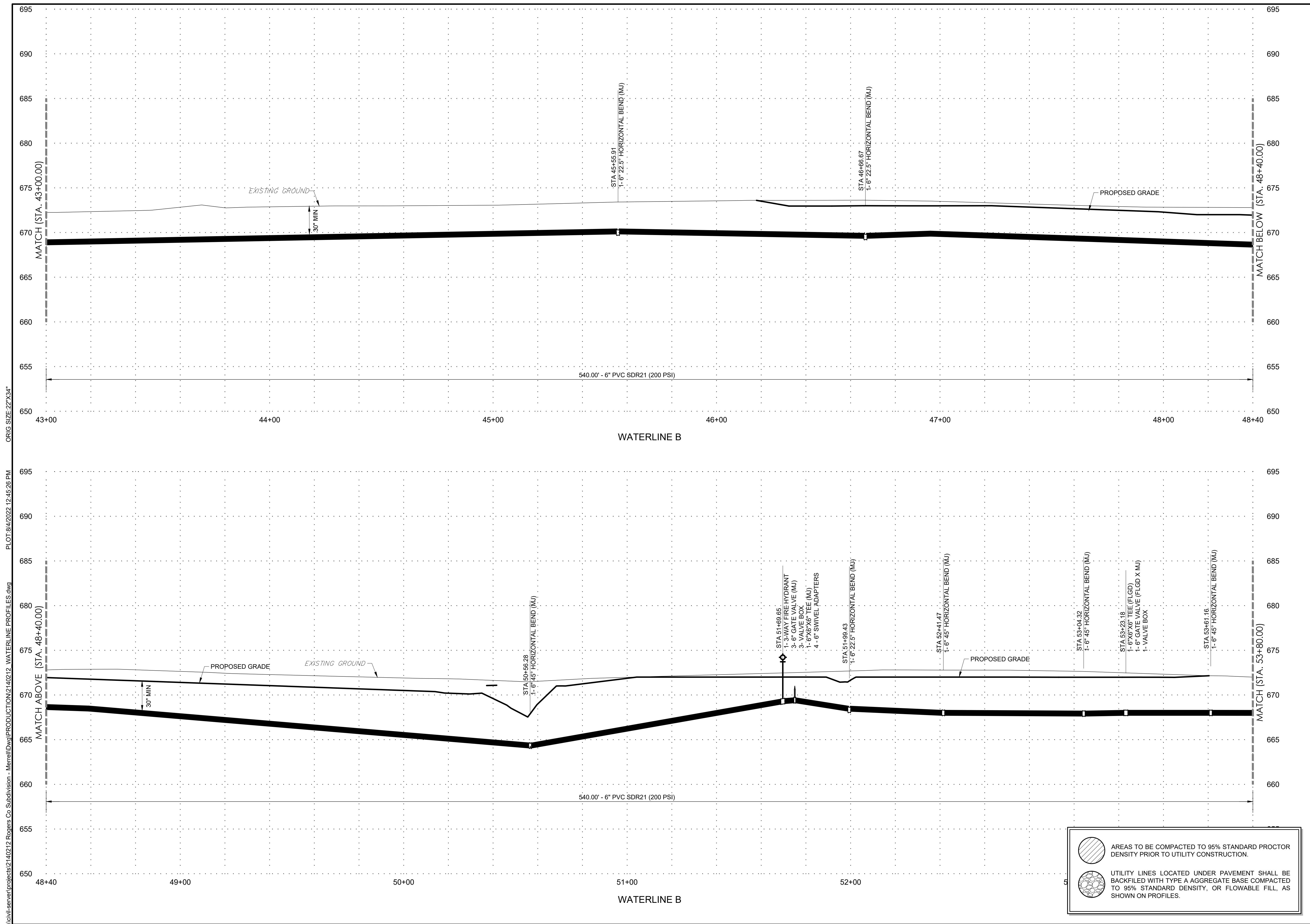


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VERT SCALE . . . 1"=5'
IDP NO.
ATLAS NO.
MANAGER ANW
DRAWN BY ASB

WATERLINE PROFILES 5
WL09
09 OF 13



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

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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA

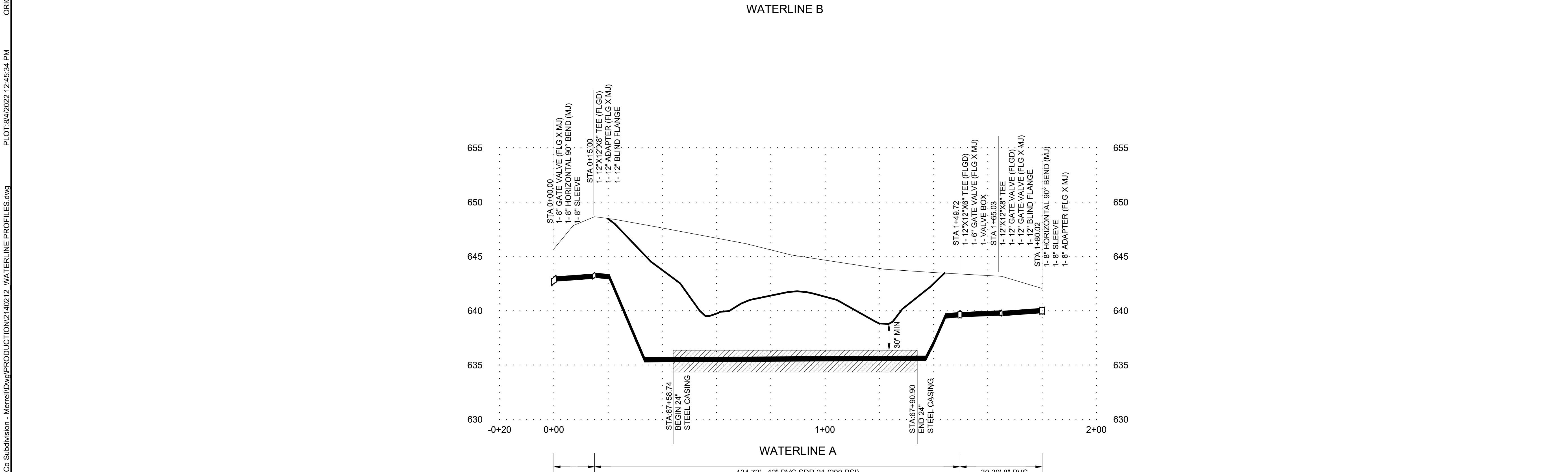
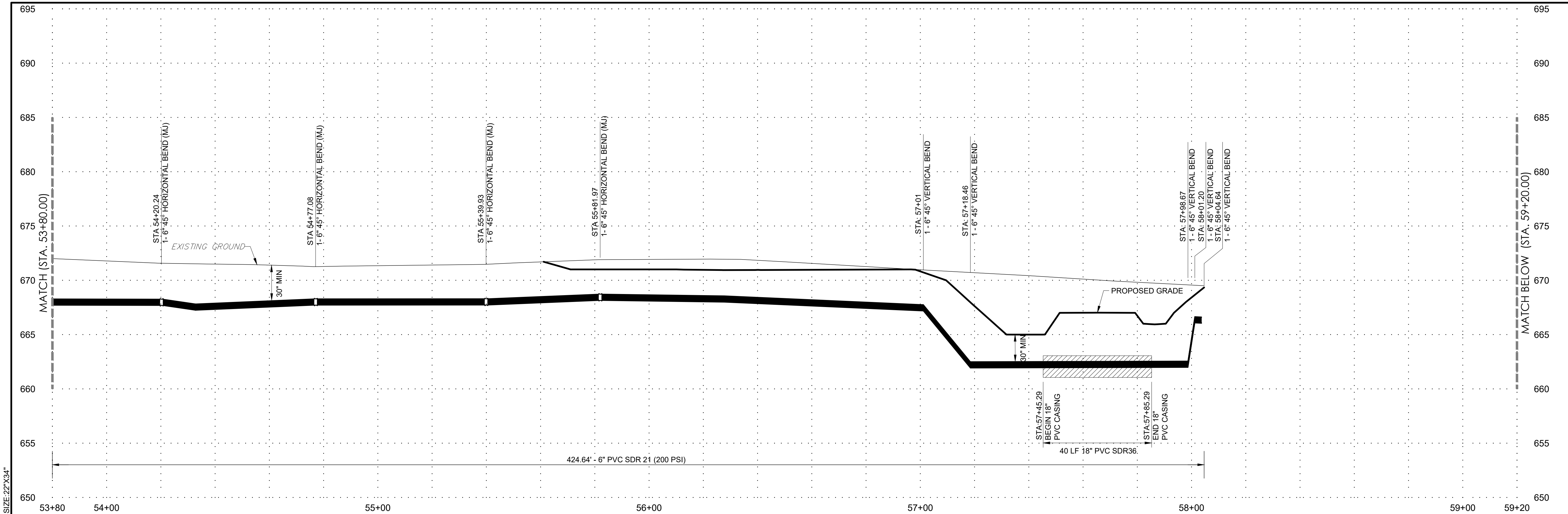


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 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

WATERLINE PROFILES 6
WL10



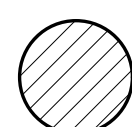
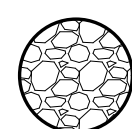
AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.
 UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILLED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.

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\\civilserver\projects\2140212 Rogers Co Subdivision - Merrell\DWG\PRODUCTION\2140212 WATERLINE PROFILES.dwg PLOT:8/4/2022 12:45:37 PM ORIG SIZE:22"x34"

MATCH (STA. 64+60.00)

NOT USED

-  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.



wallace design collective, pc
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HUNTER'S BEND
ROGERS COUNTY, OKLAHOMA



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 7
WL11
11 OF 13



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

HUNTER'S BEND
 ROGERS COUNTY, OKLAHOMA



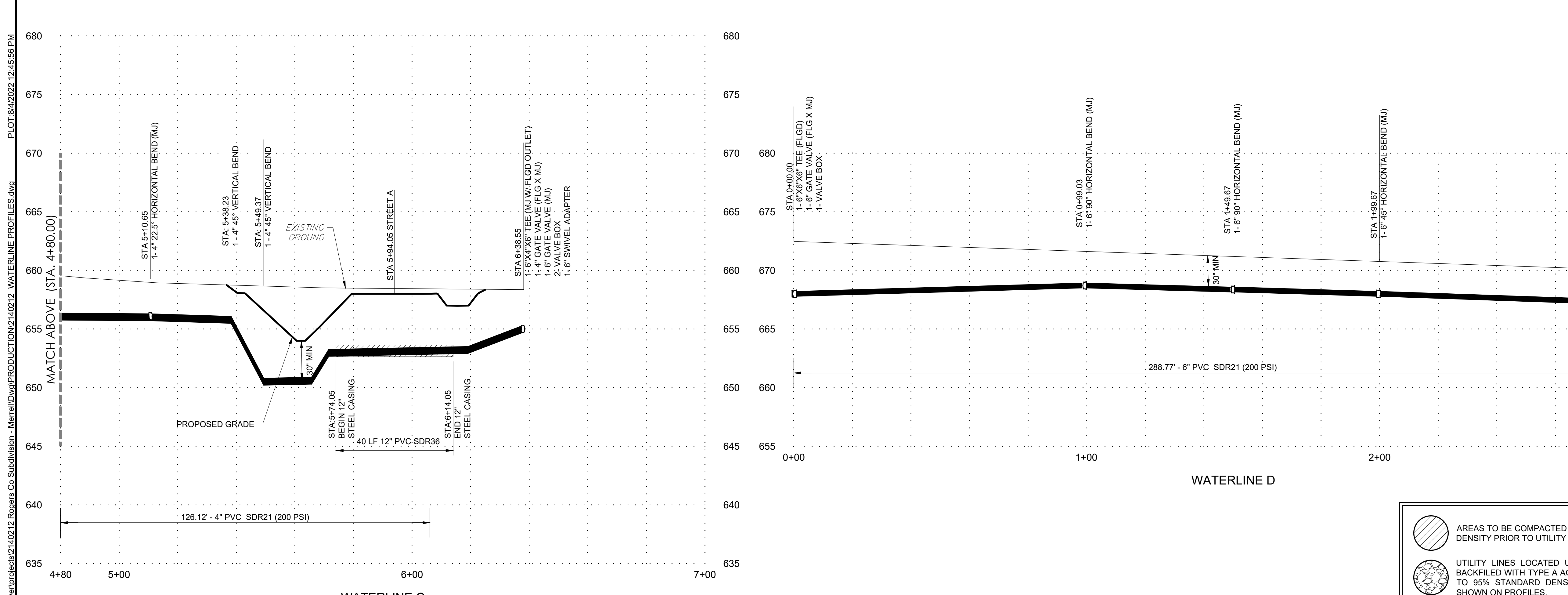
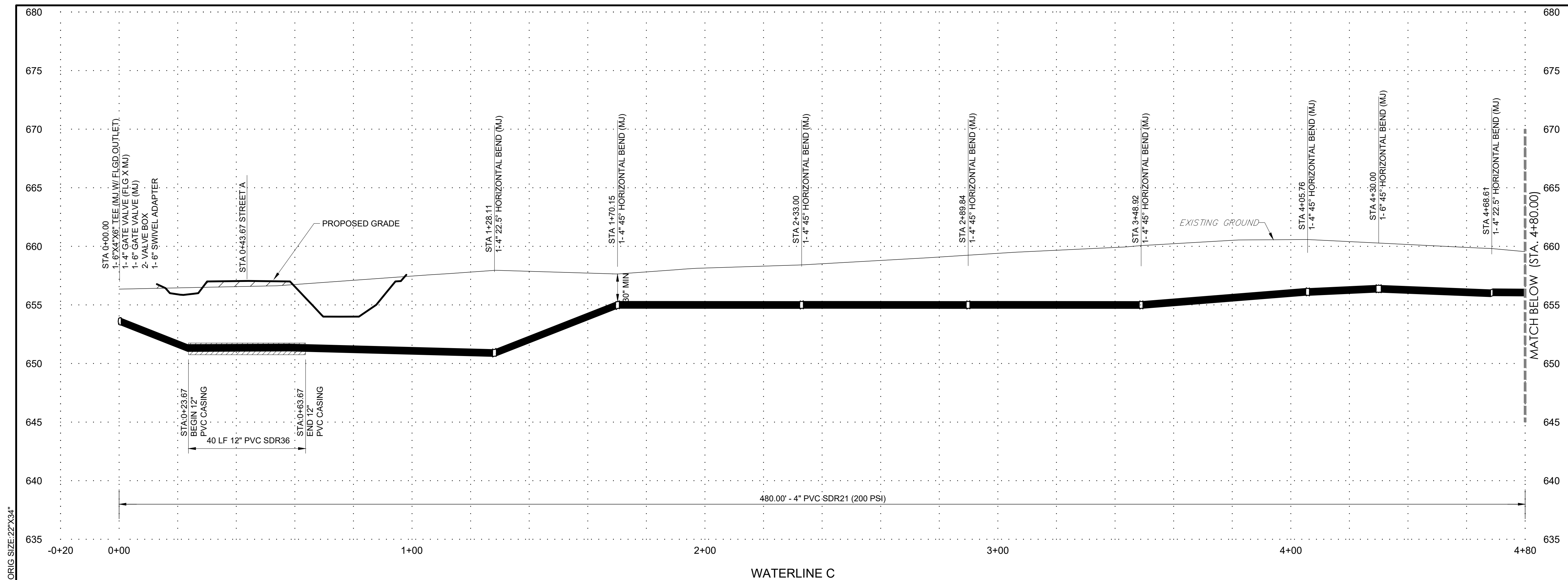
2-15-2022

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#	DATE	DESCRIPTION
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 VERT SCALE . . . 1"=5'
 IDP NO.
 ATLAS NO.
 MANAGER ANW
 DRAWN BY ASB

WATERLINE PROFILES 8
WL12



LEGEND

- AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.
- UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILLED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.

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

HUNTER'S BEND
ROGERS COUNTY, OKLAHOMA



ISSUE LOG

#	DATE	DESCRIPTION
1	2.15.2022	RWD SUBMITTAL
2	8.4.2022	RWD RESUBMITTAL

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ATLAS NO. . .
MANAGER . . . ANW
DRAWN BY . . . ASB

WATERLINE DETAILS
WL13

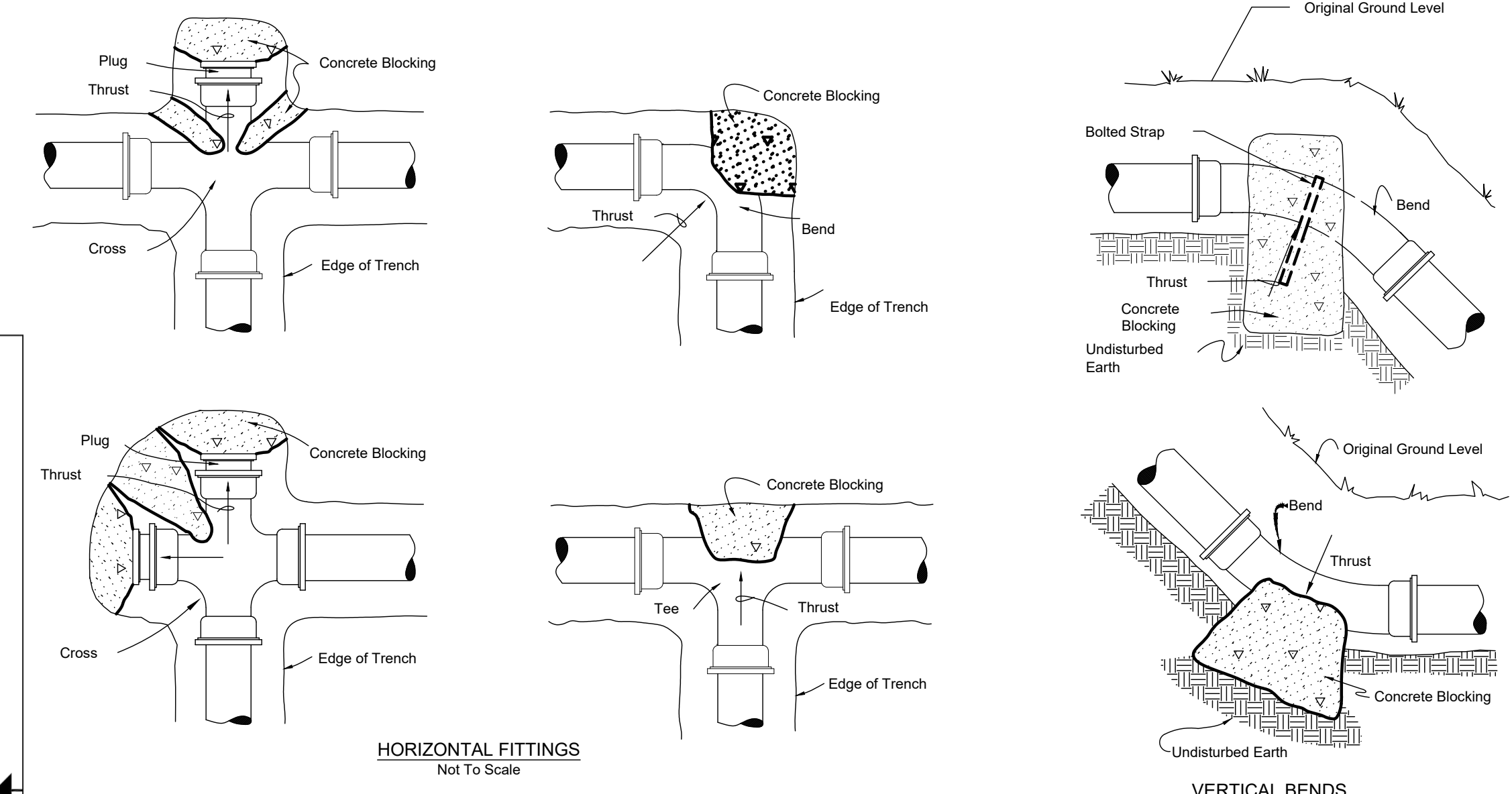
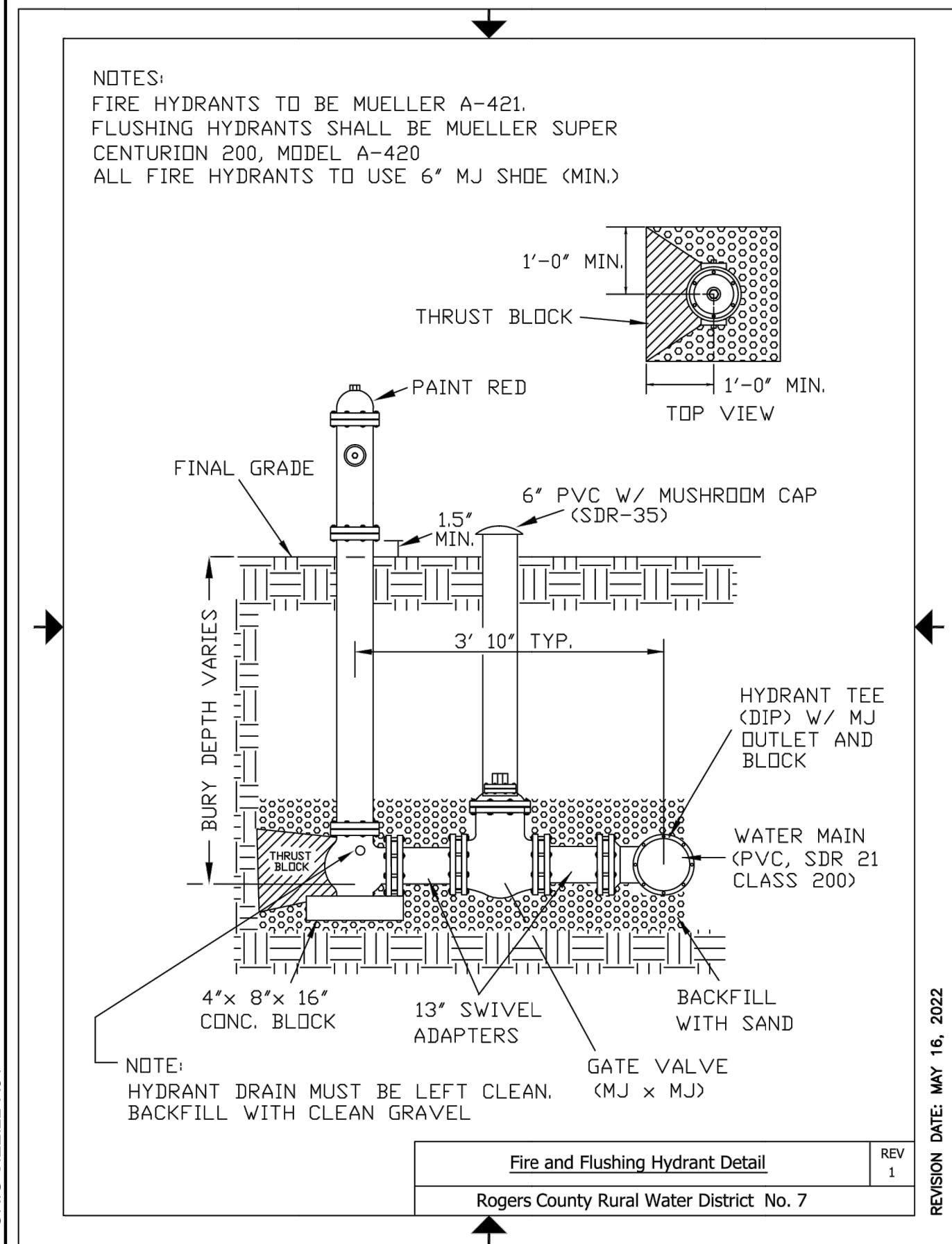
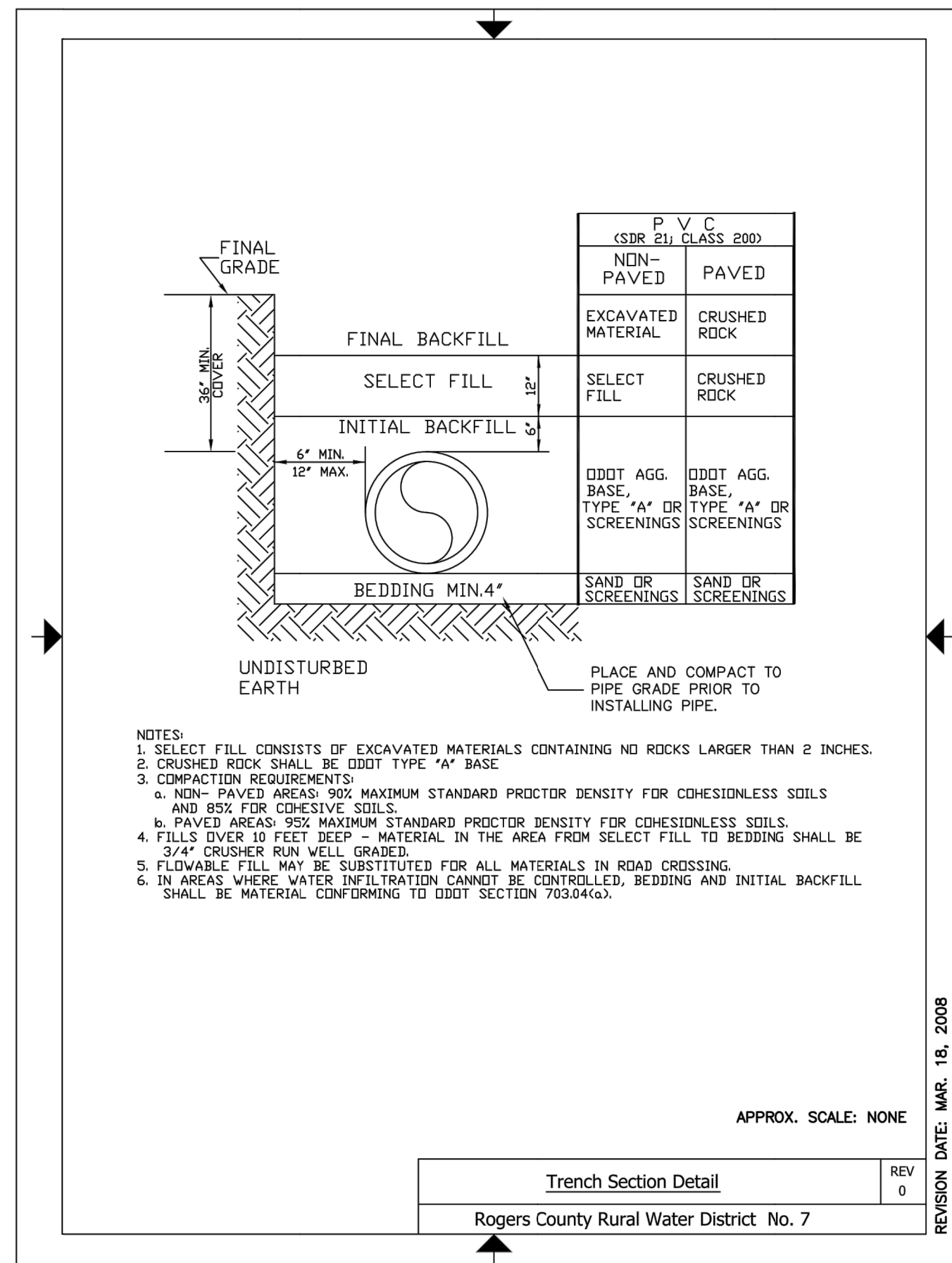
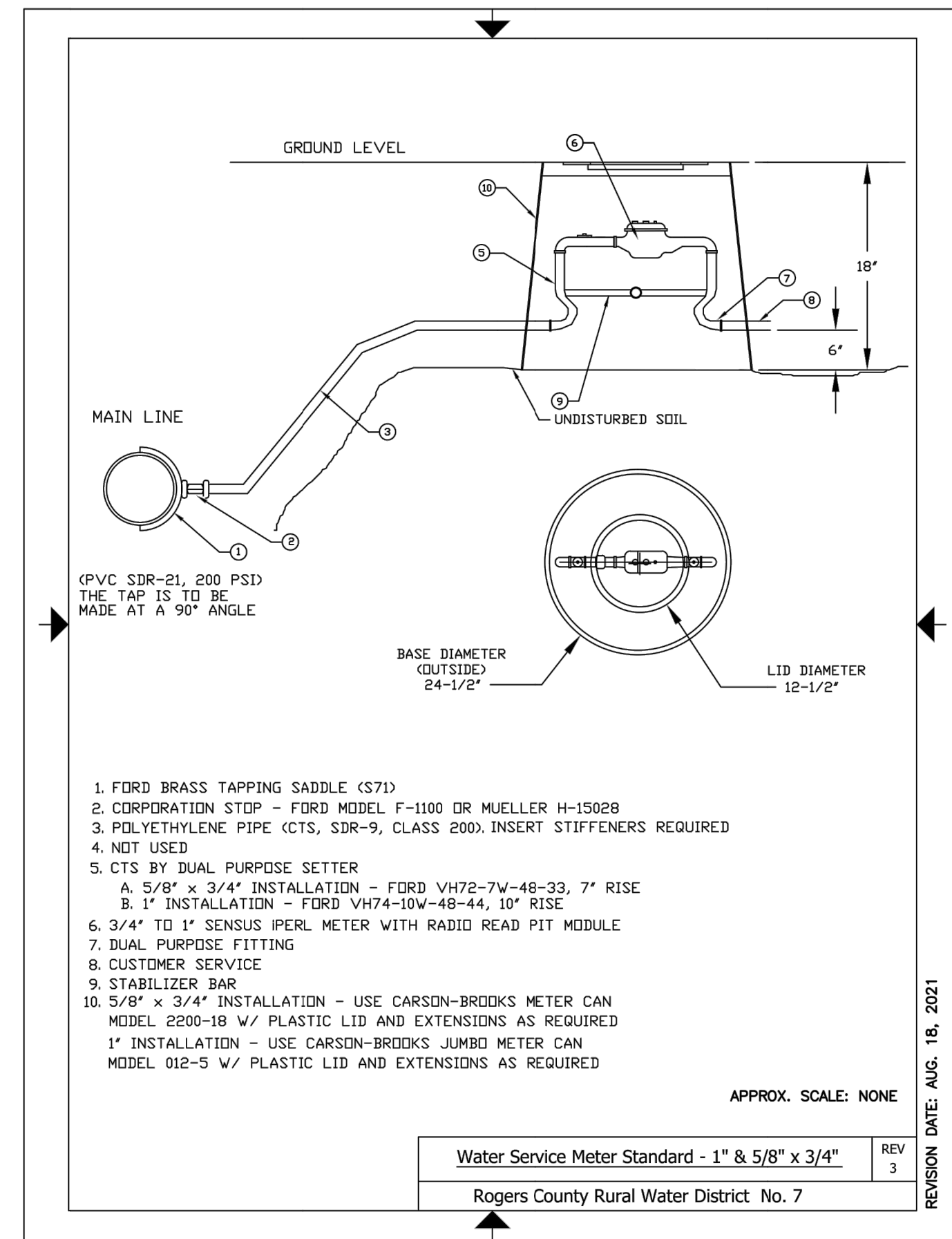
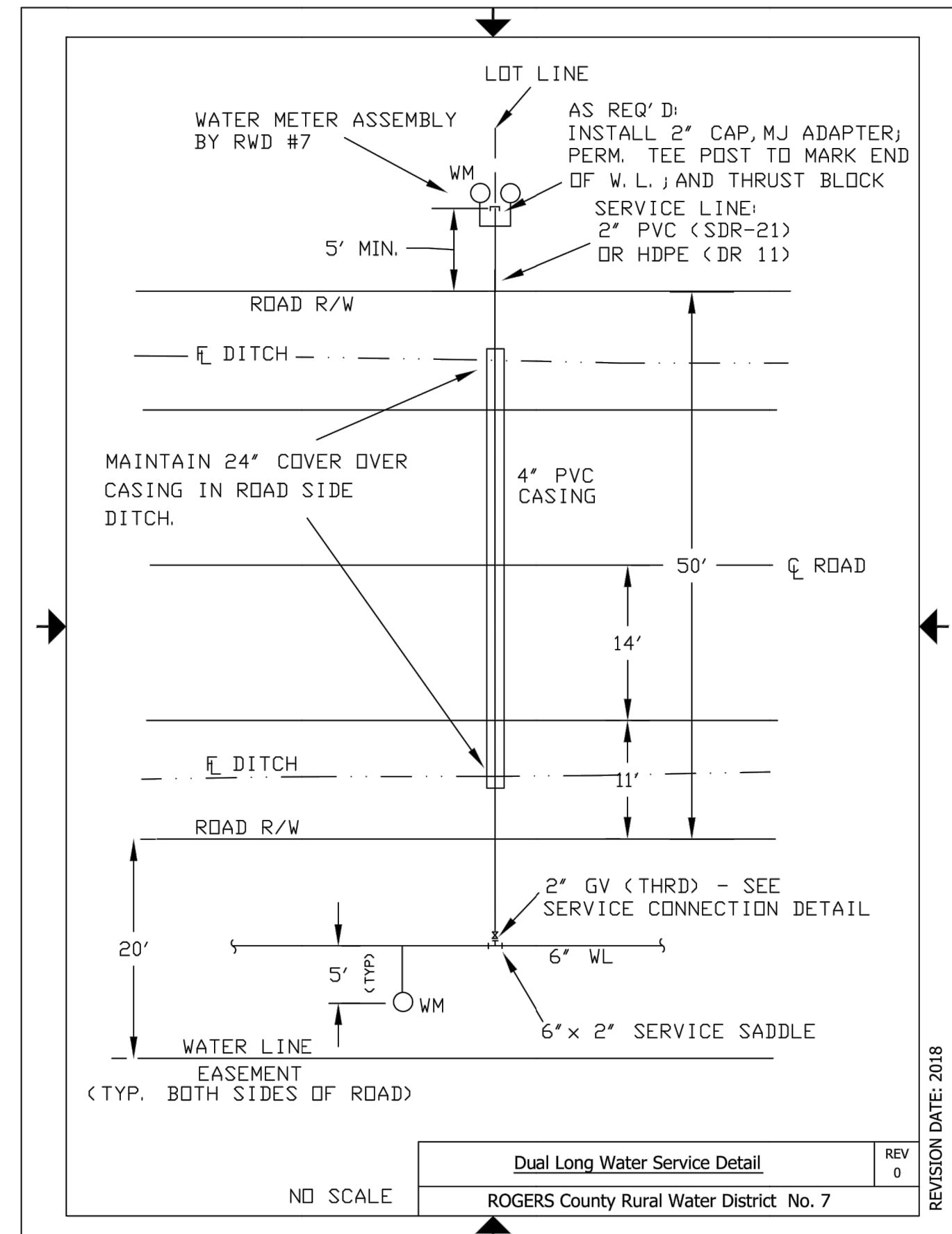
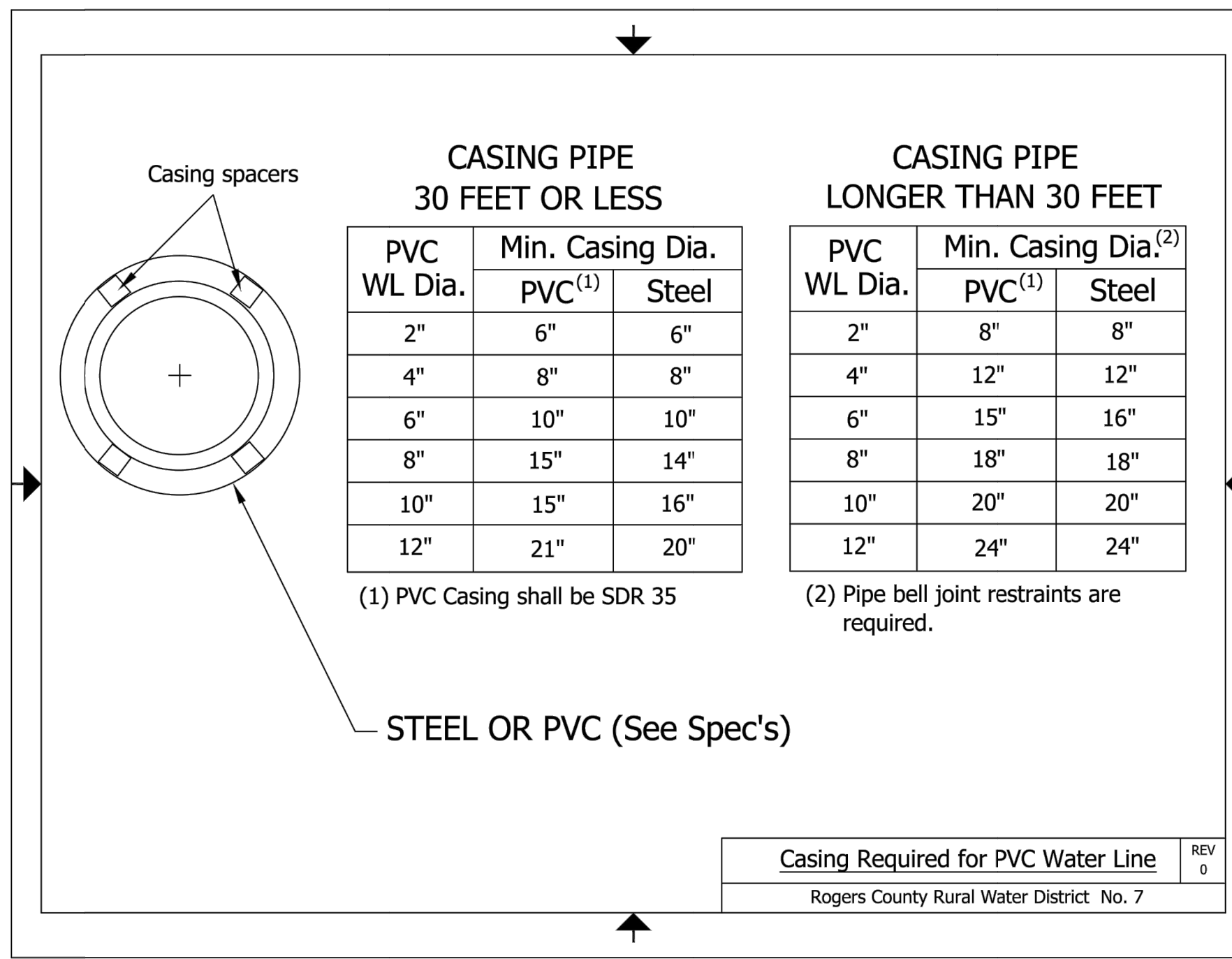


TABLE IS BASED ON 2100PSI INTERNAL PRESSURE AND 1000PSF ALLOWABLE SOIL BEARING PRESSURE. VALUES ARE APPROXIMATE AND ARE THE MINIMUMS ALLOWED. THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.

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		45 Bend		22.5 Bend		Plug/Tee	
	SF	CF	SF	CF	SF	CF	SF	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



ORIG. SIZE: 22"x34"
PLOT: 8/4/2022 12:46:04 PM
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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



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
 05 OF 29

- ### Grading Notes
- ALL GRADING SHALL MEET OR EXCEED THE COUNTY CONSTRUCTION STANDARDS AND MUNICIPAL POLICY.
 - THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
 - TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
 - SUBGRADE STABILIZATION SHALL BE AT THE DIRECTION OF THE ENGINEER, OR AS SPECIFIED IN SUBSURFACE GEOTECHNICAL REPORT.
 - CIVIL ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
 - 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.
 - CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
 - 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.
 - THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO IMPORT OR EXPORT MATERIAL AS NECESSARY TO ACHIEVE THE GRADES SHOWN ON THE CIVIL ENGINEER'S DOCUMENTS.
 - 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.
 - 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.
 - TRANSFORMER PADS AND PEDESTALS ARE TO BE LEVEL AND PLUMB.
 - CARE SHALL BE TAKEN TO ADJUST GAS METERS AND MANIFOLDS SO AS TO APPEAR CORRECTLY POSITIONED.
 - 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.
 - PAVING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
 - 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.
 - 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.
 - CONTRACTOR SHALL BE OBLIGATED TO KEEP DUST AT A MINIMUM AS REQUIRED BY CITY ENGINEER.
 - 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.
 - CONTRACTOR AND ALL RELATED CONSTRUCTION ACTIVITIES ARE REQUIRED TO MAINTAIN NORMAL NOISE LEVELS AND ALL EQUIPMENT AND VEHICLES ARE REQUIRED TO BE PROPERLY MUFFLED.
 - 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.

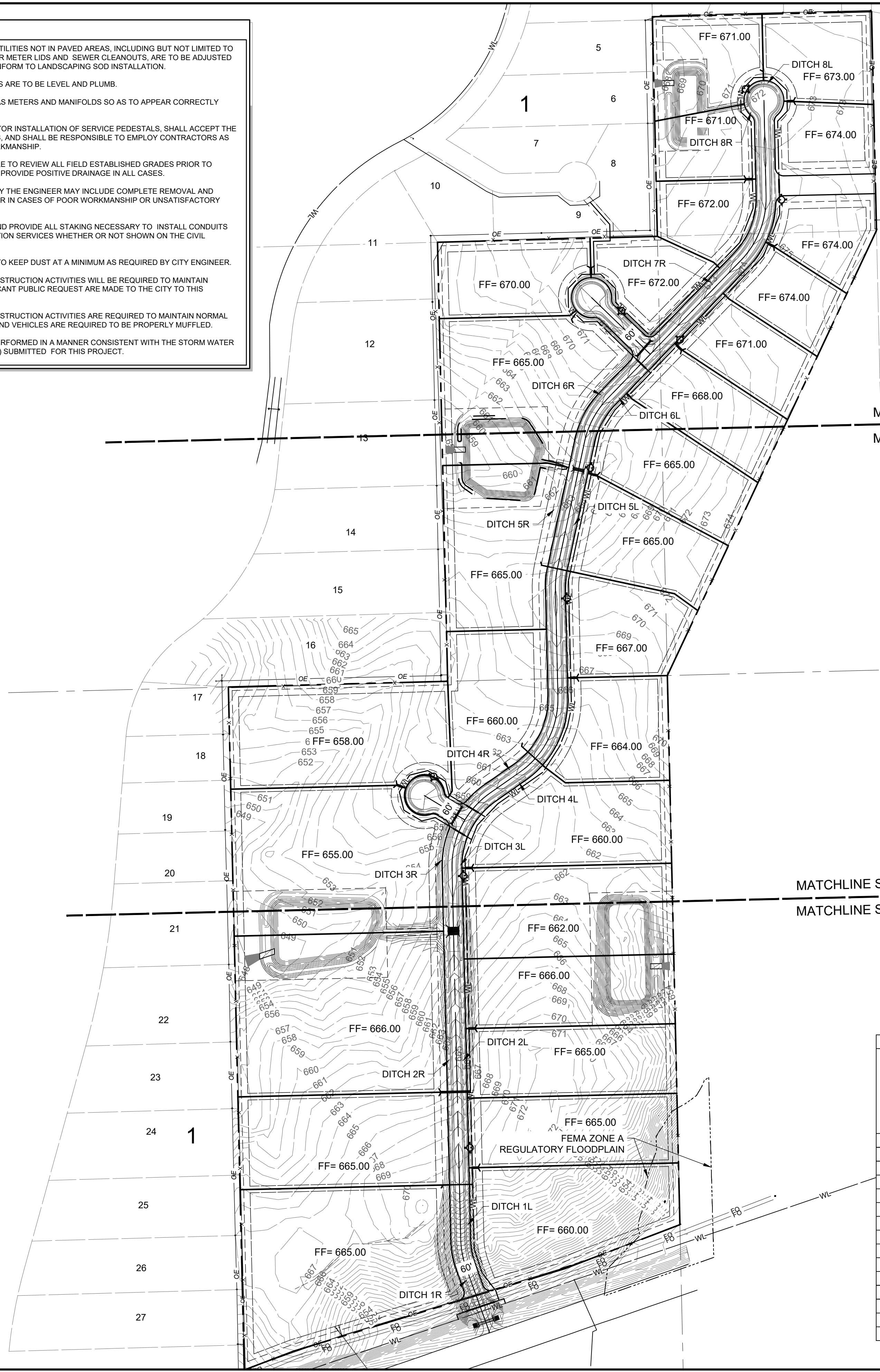
Note
 ALL F.F. ELEVATIONS ARE MINIMUM.

Grading Legend

CTRN	CURB TRANSITION
EP	EDGE OF PAVING
EX	EXISTING GROUND
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
GL	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

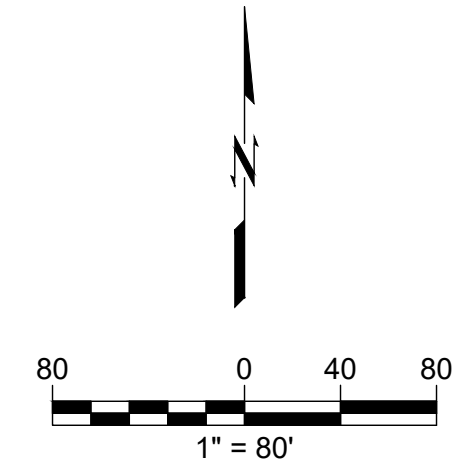
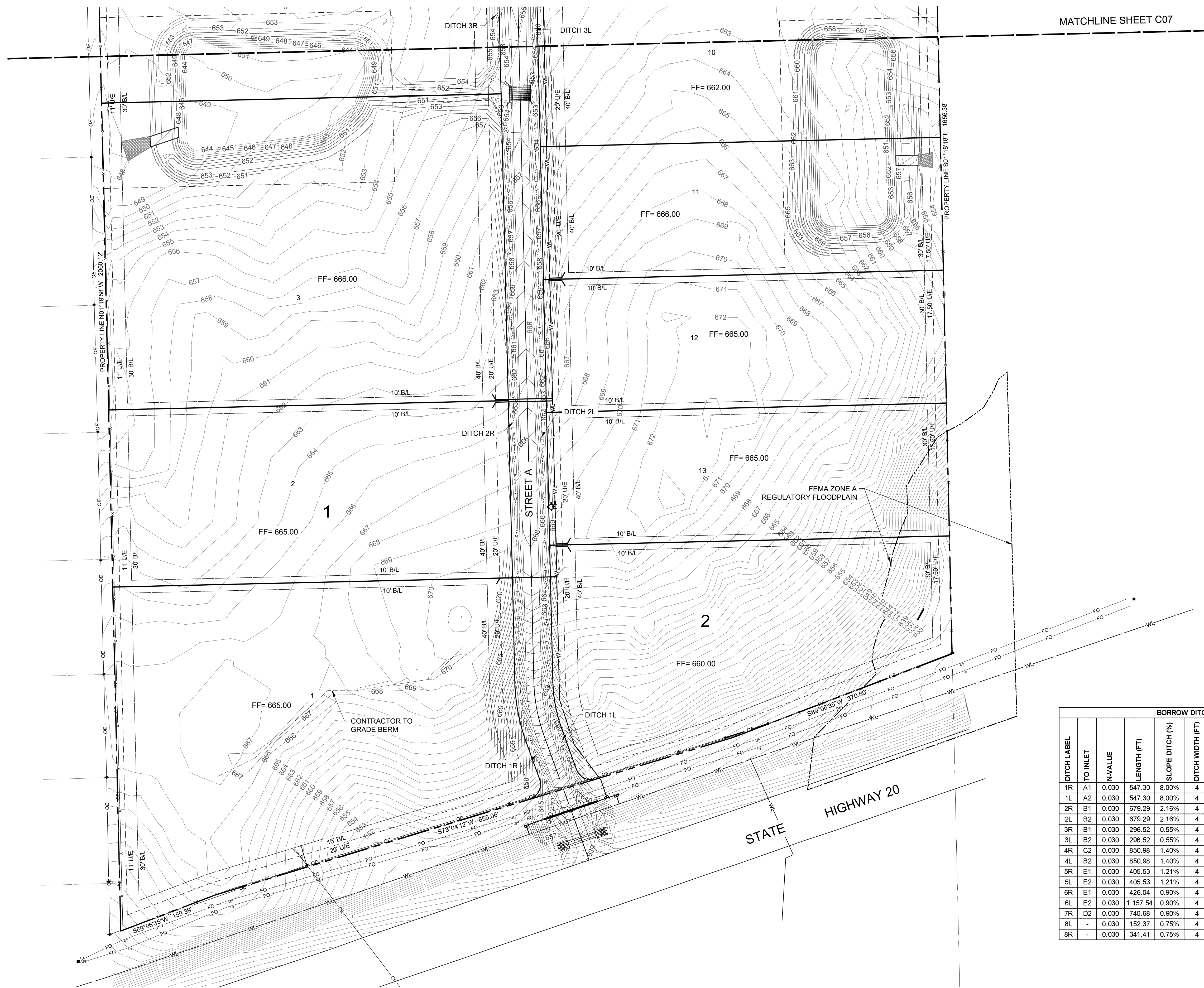


BORROW DITCH DESIGN TABLE

DITCH LABEL	TO INLET	N-VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (E: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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MATCHLINE SHEET C07

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)	Y CAP (FPS)	Q 100 (CFS)	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



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



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



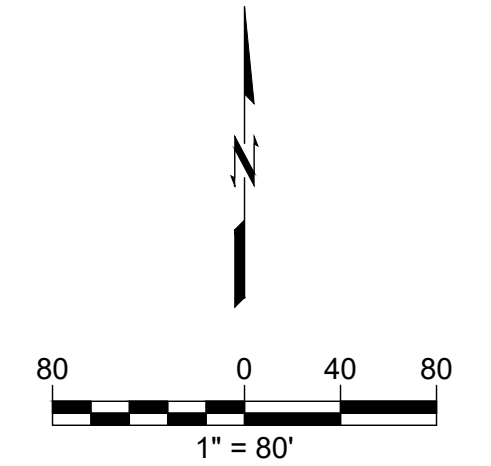
8-4-2022

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
 06 OF 29

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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
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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

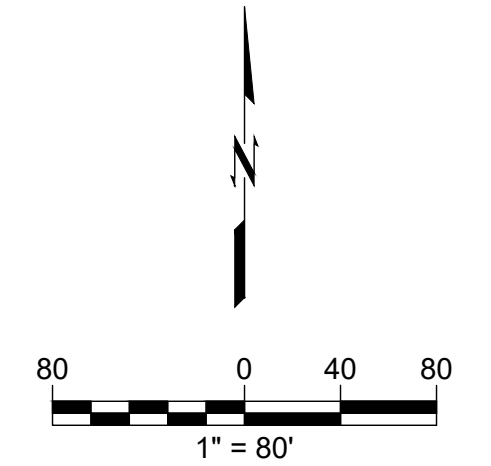


ISSUE LOG		
#	DATE	DESCRIPTION
1	4/20/2022	1ST SUBMITTAL
2	8/4/2022	RESUBMITTAL

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

DETAILED GRADING PLAN 2
C07
 07 OF 29

BORROW DITCH DESIGN TABLE												
DITCH LABEL	TO INLET	N VALUE	LENGTH (FT)	SLOPE DITCH (%)	DITCH WIDTH (FT)	DITCH DEPTH (FT)	SIDE SLOPE (Z1:Z2)	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
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4L	B2	0.030	850.98	1.40%	4	2	3:3	132.5	6.6	28.5	4.4	0.95
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5L	E2	0.030	405.53	1.21%	4	2	3:3	123.2	6.2	13.4	3.3	0.67
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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



ISSUE LOG		
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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 3
C08
 08 OF 29

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