METROPOLITAN ST. LOUIS SEWER DISTRICT

ST. GEORGE CREEK SANITARY RELIEF
(DAISY LN TO GRAVOIS RD TO NEW HAMPSHIRE AVE)

LEGEND

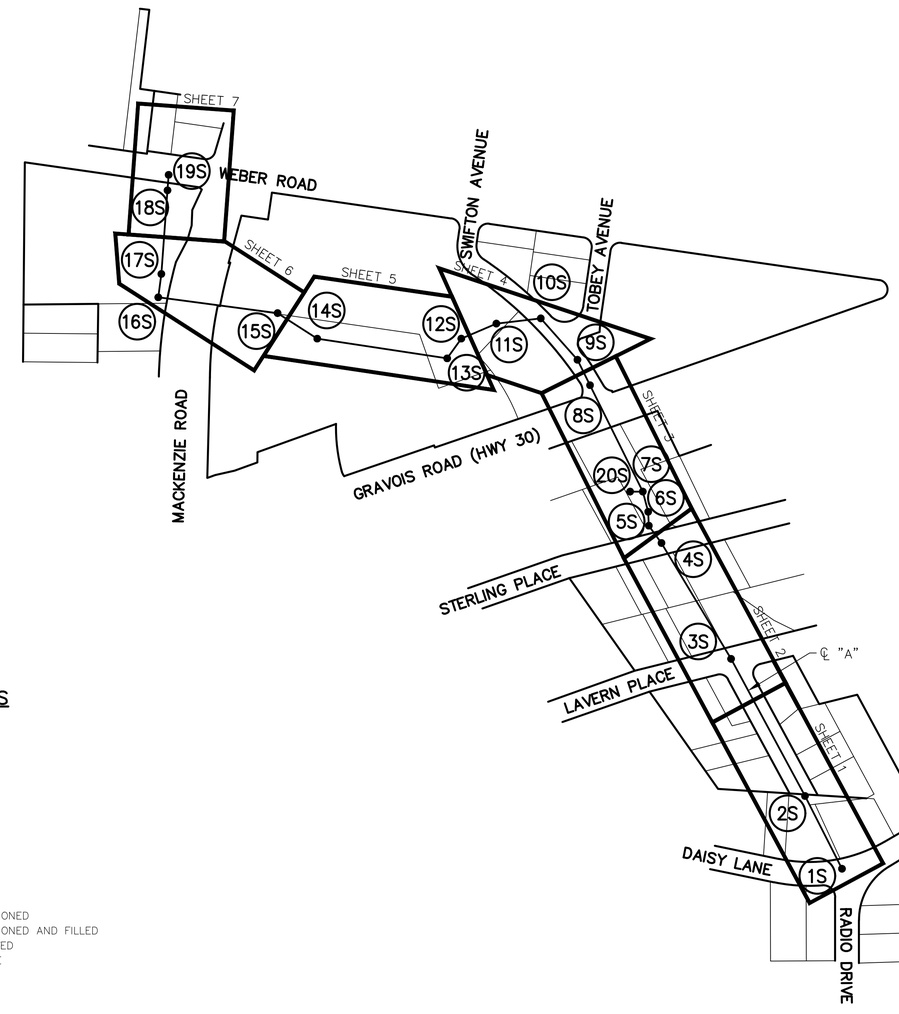
EXISTING		NEW
○	MANHOLE	●
◎	INLET MANHOLE	◘
□	INLET	■
▭	DOUBLE INLET	▬
⊔	MULTIPLE INLET	▙
◯	MANHOLE DESIGNATOR	◯
⬡	INLET OR STRUCTURE DESIGNATOR	⬡
— — —	PIPE 6" THRU 18"	═══
— — —	PIPE 21" THRU 108"	═══
— x — x —	FENCE	— x — x —
— 2"G —	2"G — UNDERGROUND UTILITIES	
— OHE —	OHE — OVERHEAD ELECTRIC	
~	FLOWLINE OF CREEK OR DITCH	
	GUARD RAIL	
+	TREE	
○	BUSH	
	HEDGE ROW	
▲	UTILITY METER OR VALVE	
PP ●	POWER POLE	
PP ●→	POWER POLE & GUY	
○	STREET SIGN	
●	FIRE HYDRANT	
☼	LIGHT STANDARD	
⊠	MAIL BOX	
VENT ○	HOUSE VENT	
⊙	TRAFFIC SIGNAL	
⊡	UTILITY BOX	
△	CONTROL POINT	
◇	CONTROL POINT DESIGNATOR	
TH#XX ◔	TEST HOLE	
◕	POTHOLE	

NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE; THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.

ABBREVIATIONS

AI	AREA INLET
ASPH	ASPHALT
BSMT	BASEMENT
CONC	CONCRETE
(C)	CALCULATED
CL	CENTERLINE
EX	EXISTING
ESMT	EASEMENT
FL	FLOWLINE
MH	MANHOLE
PVMT	PAVEMENT
SAN	SANITARY
STM	STORM
TBA	TO BE ABANDONED
TBA&F	TO BE ABANDONED AND FILLED
TBR	TO BE REMOVED
UIP	USE IN PLACE



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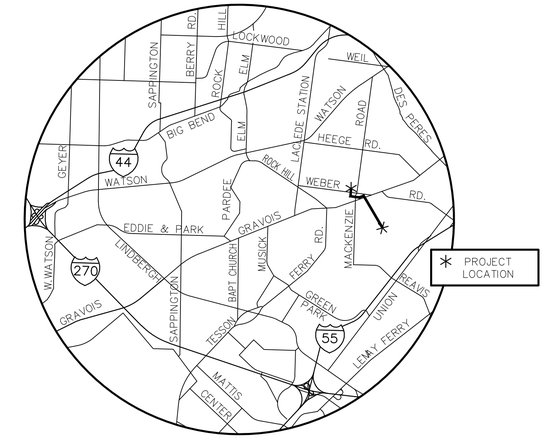

LOCATION MAP
NOT TO SCALE

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2–8	PLAN AND PROFILE

PROJECT BENCHMARKS

HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISTED USING "TRIMBLE R8" GPS EQUIPMENT, USING THE MoDOT CONTINUOUSLY OPERATING MIDWEST RTK NETWORK. HORIZONTAL CONTROL IS REPORTED IN NAD–83 AND VERTICAL CONTROL IS REPORTED IN NGVD–24 FIELD WORK WAS PERFORMED DURING THE MONTHS OF MARCH 2020 TO MAY 2020.

THE ENTIRE SITE CAN BE CONVERTED TO NAVD–88 DATUM BY LOWERING THE SITE 0.29 FEET.

M.S.D. BENCHMARK 19–263

MSD #19–263 ELEVATION 524.45
"SQ." ON SE CORNER OF LOWER STEP TO FRONT ENTRANCE AT #6111 WEBER ROAD; 212' WEST OF CENTERLINE CHARLTON LANE & 53' NORTH OF CENTERLINE WEBER ROAD

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DAVID MASON + ASSOCIATES
davidmason.com
CERTIFICATE OF AUTHORITY: 001103

Engineer Seal

MARK E. DAVIS, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–24050

REV.	DATE	DESCRIPTION	BY
	07/2020	60% DESIGN	MED

METROPOLITAN
ST. LOUIS SEWER DISTRICT

ST. GEORGE CREEK SANITARY RELIEF
(DAISY LN. TO GRAVOIS RD. TO NEW HAMPSHIRE AVE.)
12212–XXX.X
CITY OF AFFTON
ST. LOUIS COUNTY, MISSOURI

PRELIMINARY

Designed M.E.D.
Drawn
Checked M.E.D.
Date JULY, 2020
Sheet No 1 of 8

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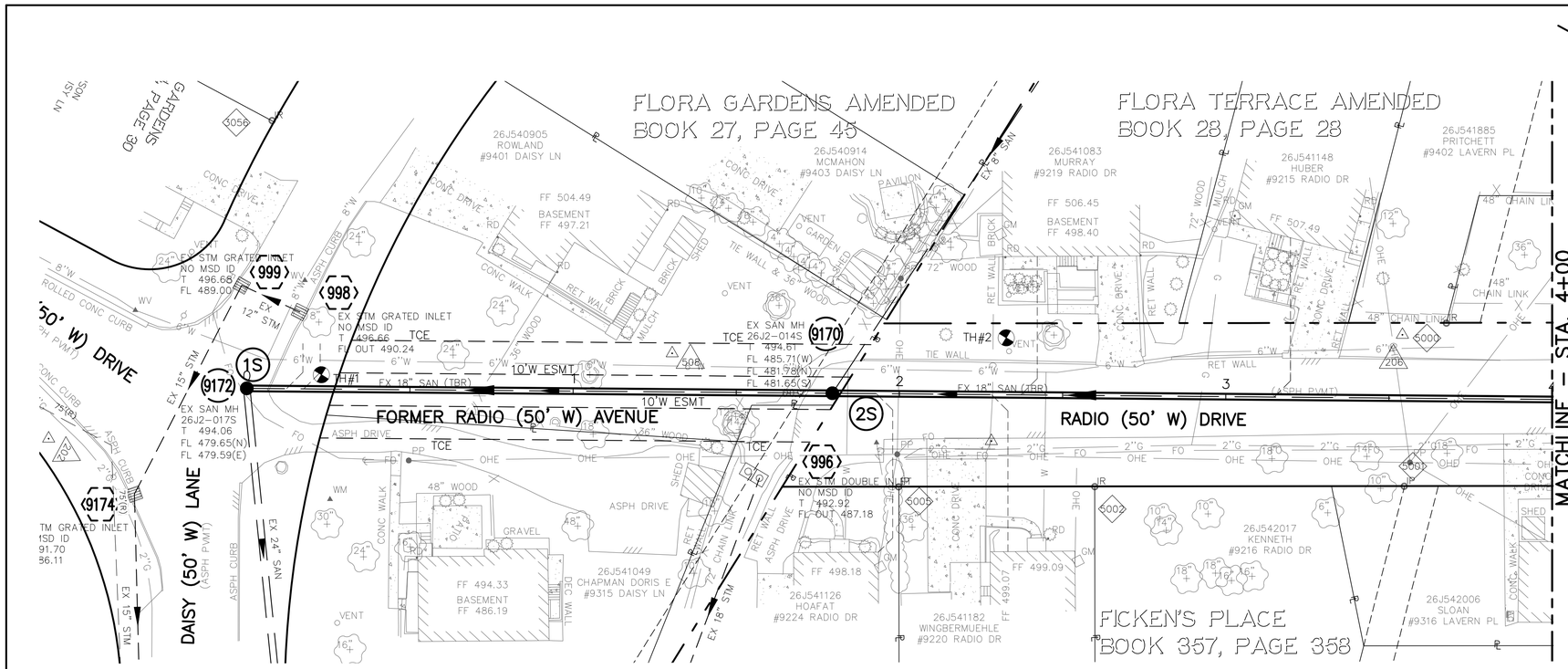
BASE MAP: 25J & 26J

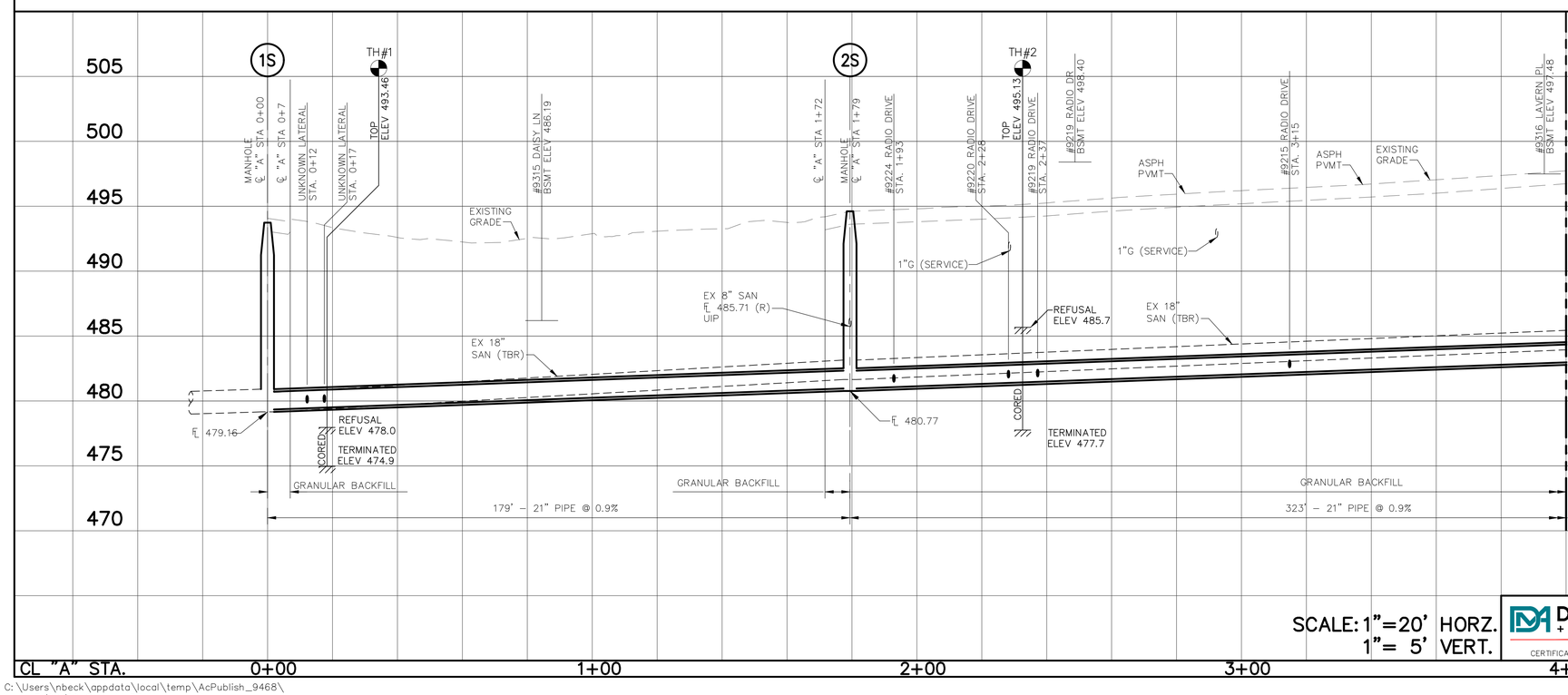
12212–[C1–PXX]



POINT TABLE				
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
206		989772.48	871950.75	TP ROD
507		989677.05	872039.17	TP CROSS
508		989578.22	872061.91	TP 60D NAIL
3056		989436.49	872057.32	IRON ROD FOUND
5000		989782.65	871941.20	IRON ROD W/CAP
5001		989794.98	871991.32	IRON PIPE FOUND
5002		989711.57	872036.42	IRON ROD W/CAP
5005		989658.70	872064.98	IRON PIPE W/CAP

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
996	996	NO MSD ID	989619.92	872082.89	EX STM DOUBLE INLET
998	998	NO MSD ID	989471.80	872104.90	EX STM GRATED INLET
999	999	NO MSD ID	989452.23	872106.17	EX STM GRATED INLET
9170	9170	26J2-014S	989627.21	872049.40	EX SAN MH
9172	9172	26J2-017S	989468.56	872133.21	EX SAN MH

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	1S	.	989468.56	872133.21	PROP MANHOLE
	2S	.	989627.21	872049.40	PROP MANHOLE



SCALE: 1"=20' HORZ.
1"= 5' VERT.

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BASE MAP: 25J & 26J

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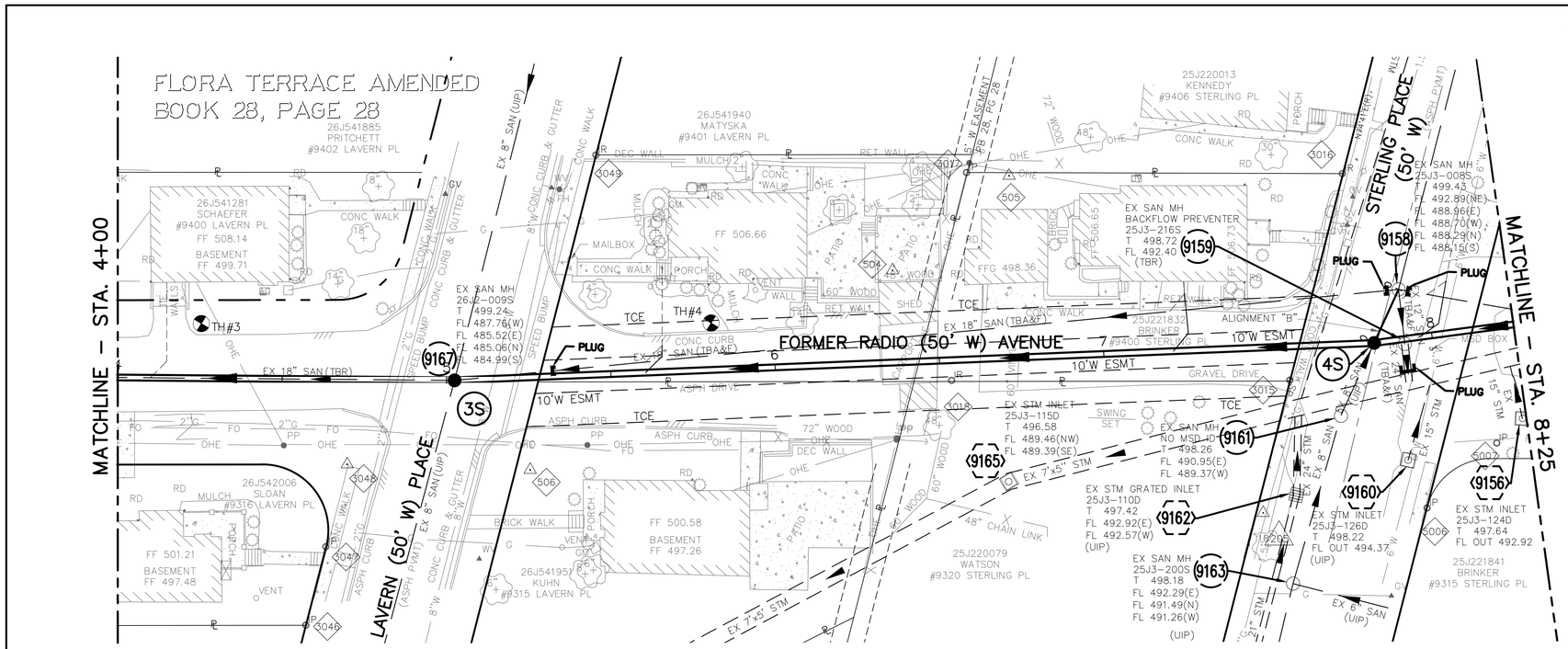
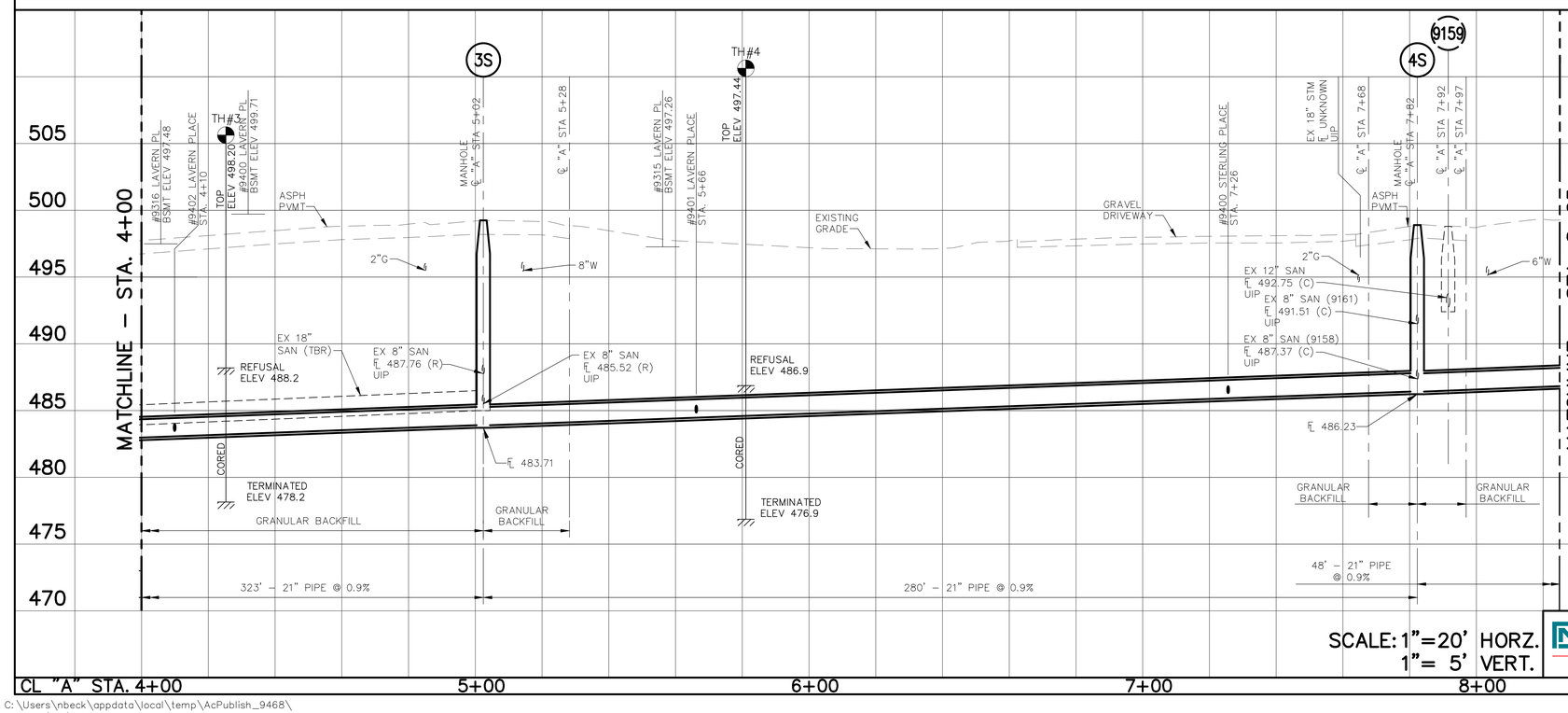


POINT TABLE				
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
205		990148.39	871817.36	TP CROSS
504		990014.19	871805.92	TP CROSS
505		990031.74	871763.81	TP 60D NAIL
506		989945.98	871911.61	TP 60D NAIL
3015		990136.37	871777.99	COTTON PICKER SPINDLE
3016		990120.66	871715.13	IRON ROD W/CAP
3017		990019.90	871769.07	IRON PIPE FOUND
3018		990045.90	871826.86	IRON ROD W/CAP
3046		989908.32	871985.54	IRON PIPE W/CAP
3047		989902.37	871961.66	IRON PIPE W/CAP
3048		989896.22	871936.54	AXLE
3049		989918.14	871817.86	IRON ROD W/CAP
5006		990191.54	871792.40	IRON PIPE W/CAP
5007		990200.84	871764.96	IRON PIPE FOUND

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9156	9156	25J3-124D	990204.13	871754.66	EX STM INLET
9158	9158	25J3-008S	990152.40	871738.04	EX SAN MH
9159	9159	25J3-216S	990161.94	871751.72	EX SAN MH
9160	9160	25J3-126D	990179.57	871782.33	EX STM INLET
9162	9162	25J3-110D	990154.73	871807.75	EX STM GRATED INLET
9165	9165	25J3-115D	990075.72	871845.72	EX STM INLET
9167	9167	26J2-009S	989912.83	871898.59	EX SAN MH

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	3S	.	989912.83	871898.59	PROP MANHOLE
	4S	.	990153.58	871755.89	PROP MANHOLE



SCALE: 1"=20' HORZ.
1"= 5' VERT.

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Engineer Seal

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CITY OF AFFTON
ST. LOUIS COUNTY, MISSOURI

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Sheet No 3 of 8

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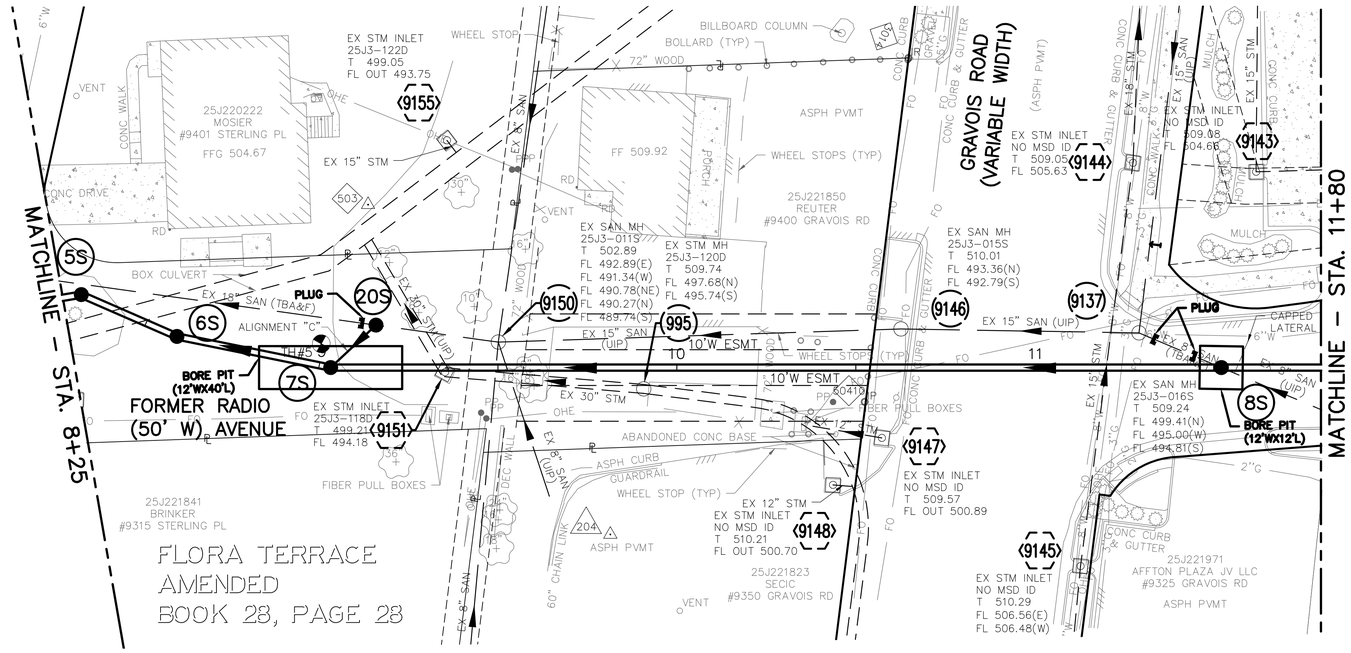
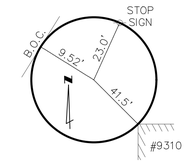
BASE MAP: 25J & 26J

12212–[C1–PXX]





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CONTROL POINT #202
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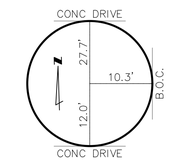

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CONTROL POINT #203
ELEV. = 516.45

POINT TABLE

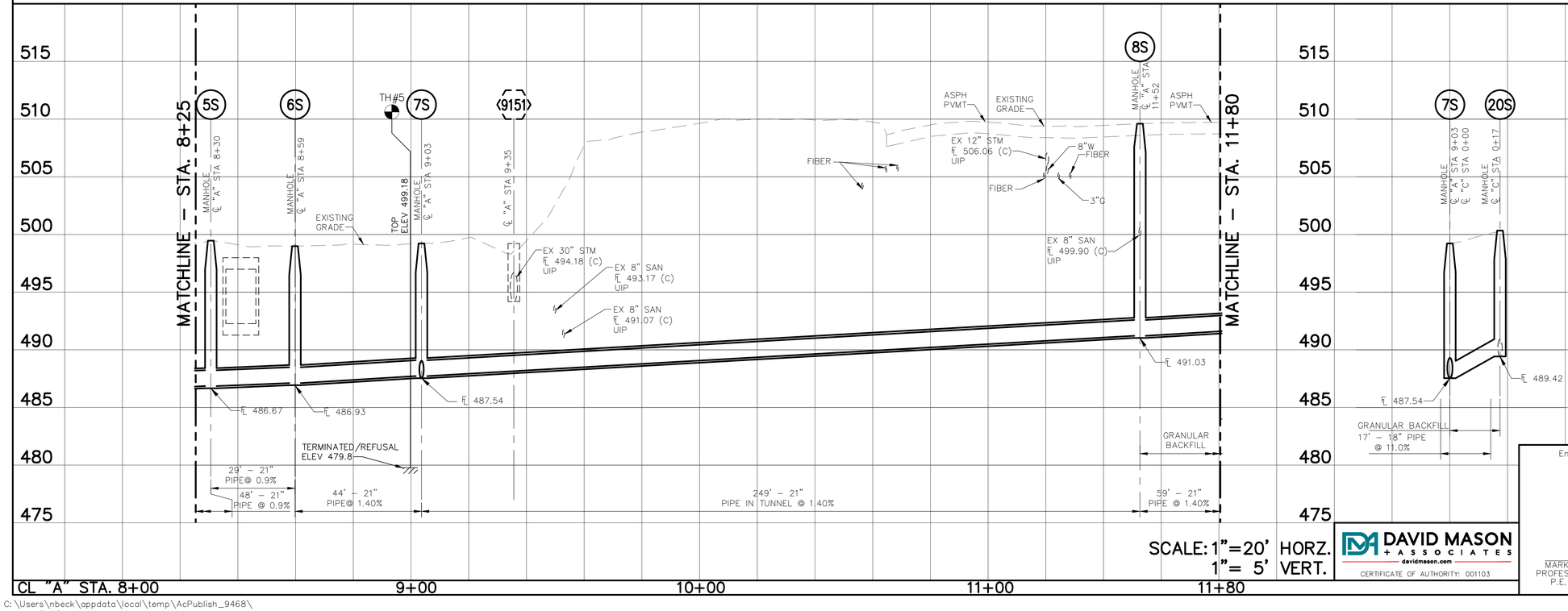
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
29		990401.92	871657.39	IRON PIPE FOUND
204		990354.67	871722.16	MAGSPIKE
503		990253.08	871669.64	TP 60D NAIL
3014		990370.18	871565.86	IRON ROD W/CAP

EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
995	995	25J3-120D	990344.98	871681.58	EX STM MH
9137	9137	25J3-016S	990462.02	871606.09	EX SAN MH
9143	9143	NO MSD ID	990471.37	871551.22	EX STM INLET
9144	9144	NO MSD ID	990439.43	871564.25	EX STM INLET
9145	9145	NO MSD ID	990476.34	871671.74	EX STM INLET
9146	9146	25J3-015S	990401.93	871634.66	EX SAN MH
9147	9147	NO MSD ID	990410.68	871664.32	EX STM INLET
9148	9148	NO MSD ID	990404.28	871682.13	EX STM INLET
9150	9150	25J3-011S	990302.75	871687.92	EX SAN MH
9151	9151	25J3-118D	990293.12	871702.07	EX STM INLET
9155	9155	25J3-122D	990264.84	871643.77	EX STM INLET

NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	5S	.	990192.42	871727.79	PROP MANHOLE
	6S	.	990221.57	871726.37	PROP MANHOLE
	7S	.	990263.92	871715.10	PROP MANHOLE
	8S	.	990486.96	871604.56	PROP MANHOLE
	20S	.	990269.99	871698.83	PROP MANHOLE



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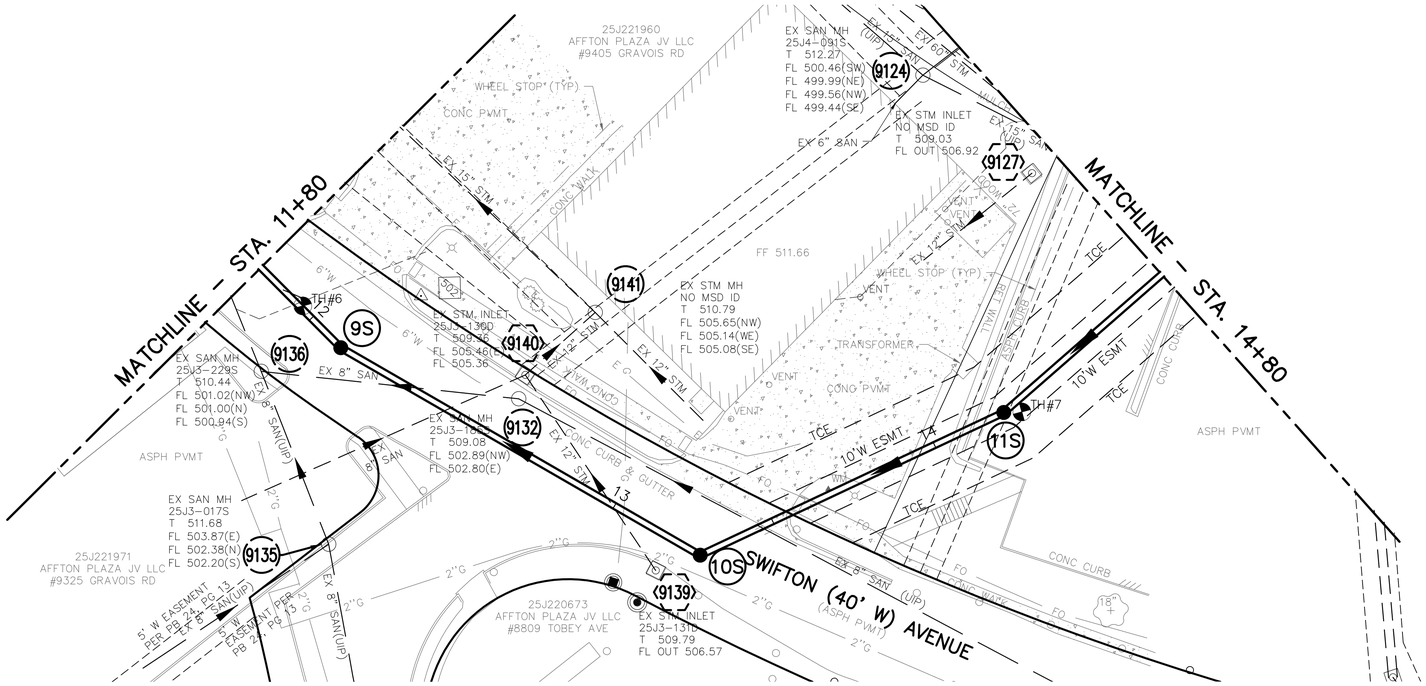

SCALE: 1"=20'
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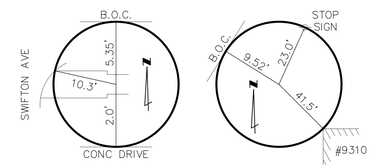
POINT TABLE				
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
502		990533.62	871552.30	TP 60D NAIL

EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9124	9124	25J4–091S	990519.54	871399.70	EX SAN MH
9127	9127	NO MSD ID	990555.20	871379.47	EX STM INLET
9132	9132	25J3–185S	990569.54	871535.54	EX SAN MH
9135	9135	25J3–017S	990591.29	871598.76	EX SAN MH
9136	9136	25J3–229S	990539.46	871601.34	EX SAN MH
9139	9139	25J3–131D	990627.19	871514.40	EX STM INLET
9140	9140	25J3–130D	990563.80	871531.65	EX STM INLET
9141	9141	NO MSD ID	990553.42	871507.58	EX STM MH
9142	9142	25J4–290D	990720.84	871328.45	EX STM INLET

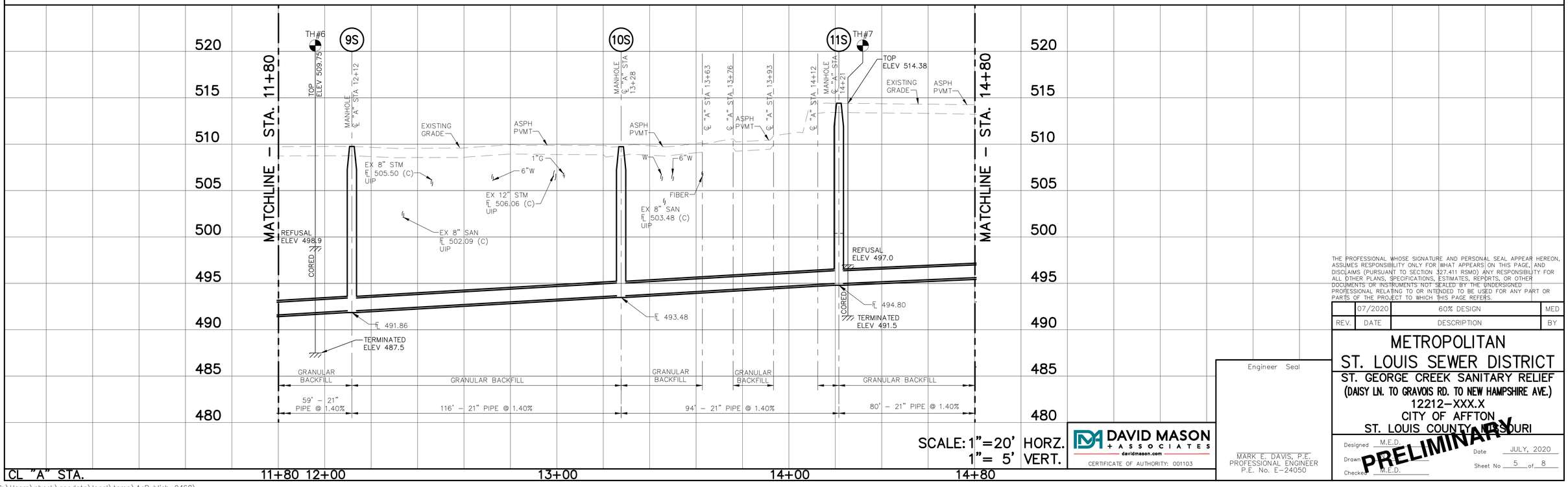
NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	9S	.	990540.24	871578.15	PROP MANHOLE
	10S	.	990627.09	871501.29	PROP MANHOLE
	11S	.	990616.13	871408.15	PROP MANHOLE



REFERENCE TIE
CONTROL POINT #201
ELEV. = 520.73

REFERENCE TIE
CONTROL POINT #202
ELEV. = 492.72



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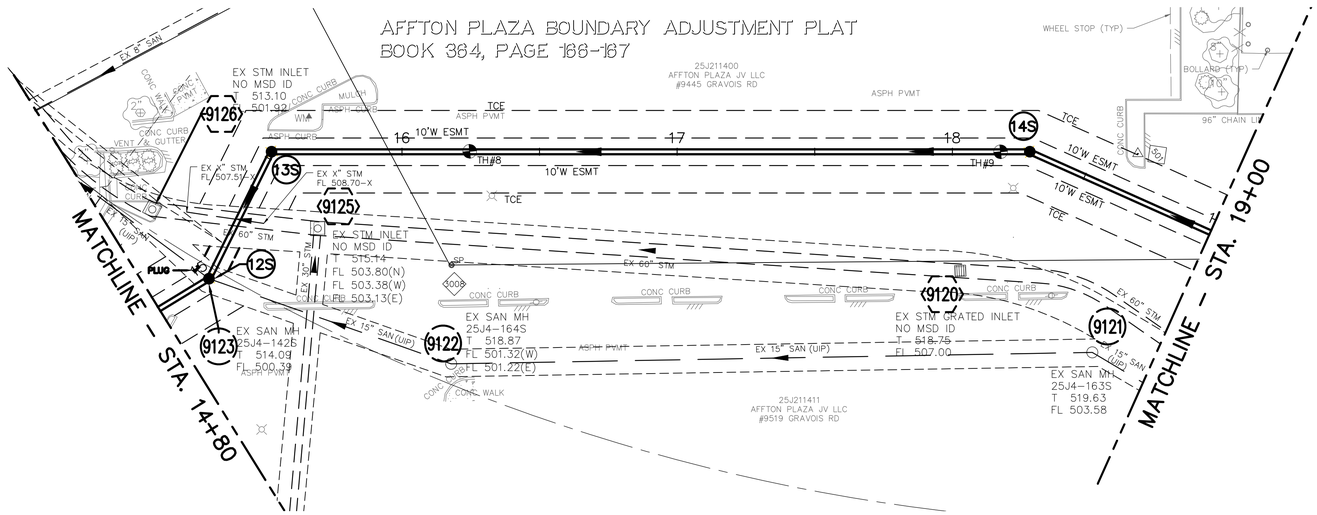
BASE MAP: 25J & 26J

12212–[C1–PXX]



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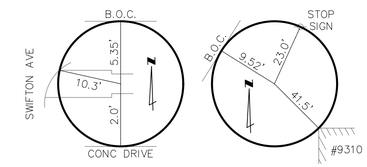
POINT TABLE				
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
501		990591.19	870993.95	TP 60D NAIL
3008		990593.72	871246.60	COTTON PICKER SPINDLE

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9120	9120	NO MSD ID	990623.62	871064.14	EX STM GRATED INLET
9121	9121	25J4-163S	990660.10	871021.17	EX SAN MH
9122	9122	25J4-164S	990629.21	871252.16	EX SAN MH
9123	9123	25J4-142S	990585.37	871334.51	EX SAN MH
9125	9125	NO MSD ID	990573.29	871292.70	EX STM INLET
9126	9126	NO MSD ID	990557.39	871351.09	EX STM INLET

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	12S	.	990585.37	871334.51	PROP MANHOLE
	13S	.	990543.20	871305.08	PROP MANHOLE
	14S	.	990584.61	871032.70	PROP MANHOLE



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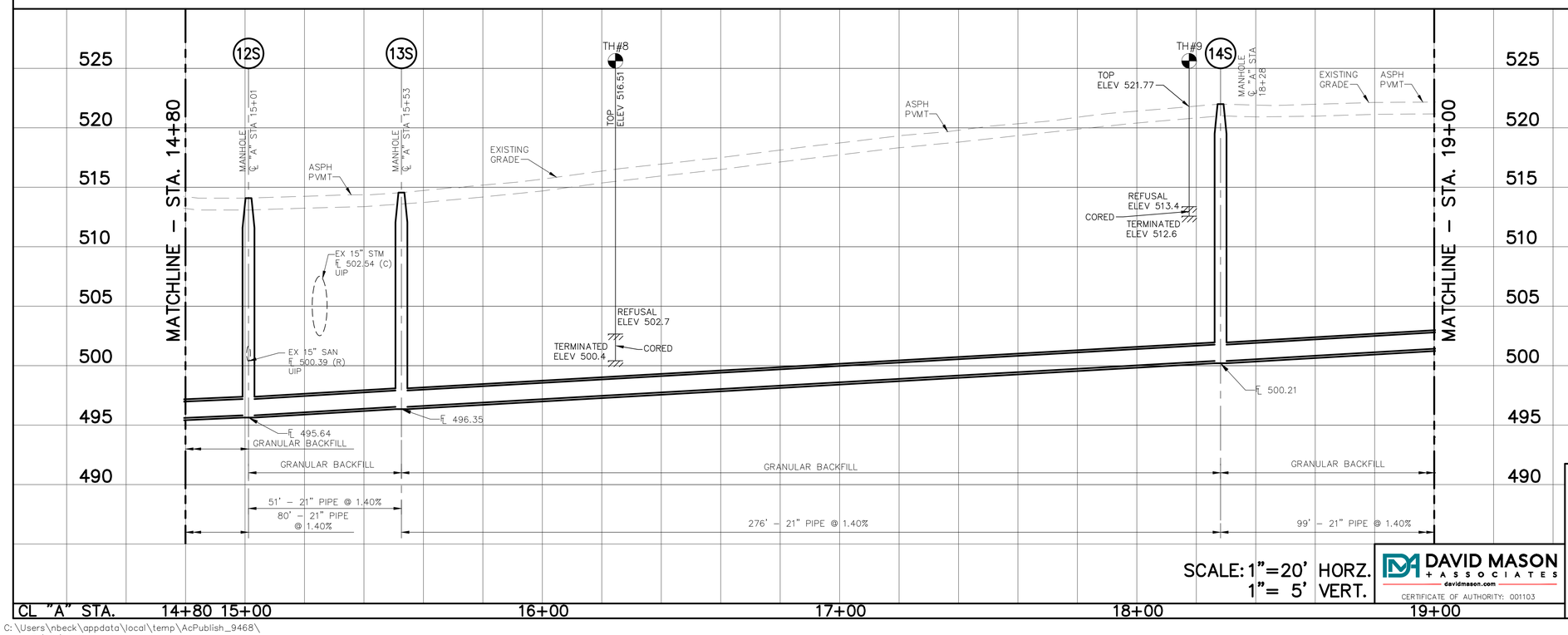
ELEV. = 520.73

REFERENCE TIE
CONTROL POINT #202
ELEV. = 492.72



SCALE: 1"=20' HORZ.
1"= 5' VERT.

DAVID MASON + ASSOCIATES
davidmason.com
CERTIFICATE OF AUTHORITY: 001103

Engineer Seal

MARK E. DAVIS, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-24050

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	07/2020	60% DESIGN	MED

METROPOLITAN
ST. LOUIS SEWER DISTRICT

ST. GEORGE CREEK SANITARY RELIEF
(DAISY LN. TO GRAVOIS RD. TO NEW HAMPSHIRE AVE.)
12212-XXX.X
CITY OF AFFTON
ST. LOUIS COUNTY, MISSOURI

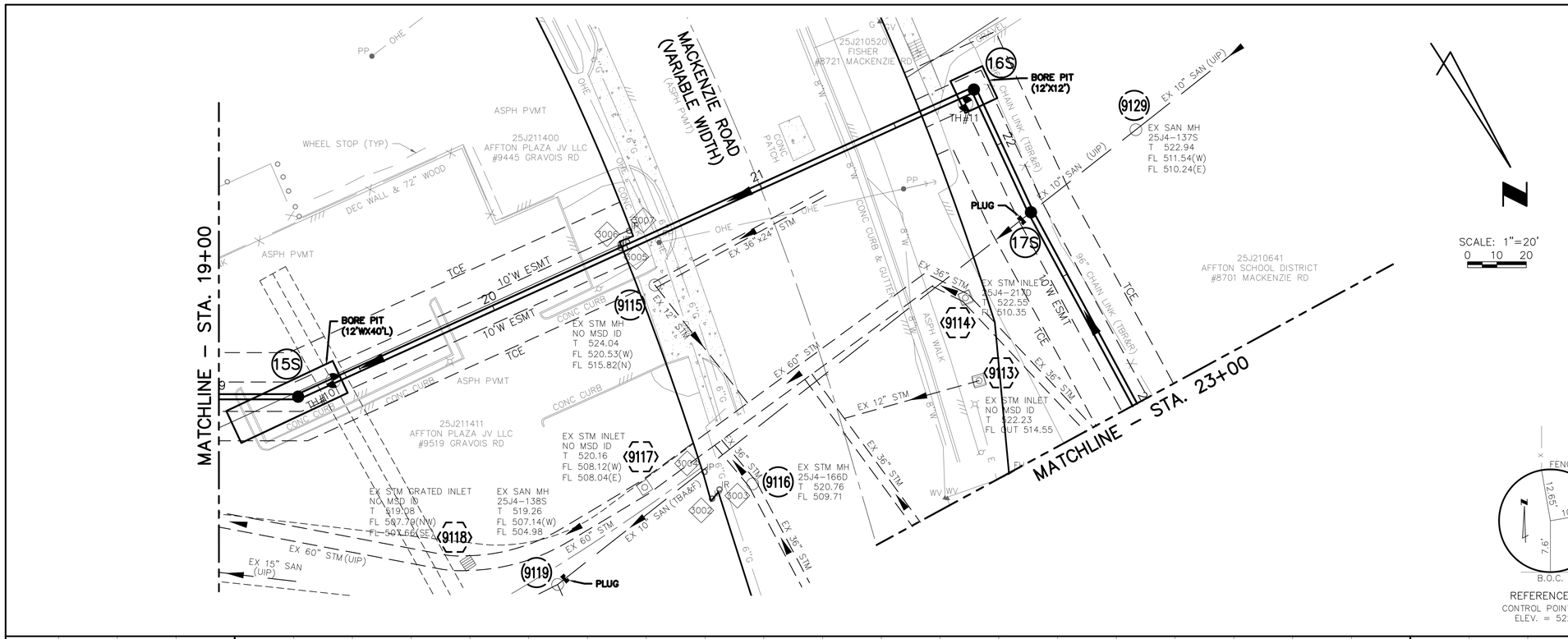
PRELIMINARY

Designed M.E.D.
Drawn
Checked M.E.D.
Date JULY, 2020
Sheet No 6 of 8

Path: C:\Users\nbeck\appdata\local\temp\AcPublish_9468\
Plotted on: 7/22/20 @ 11:45:02AM by nbeck

BASE MAP: 25J & 26J

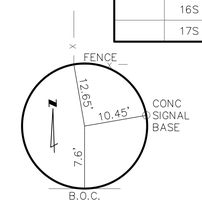
12212-[C1-PXX]



POINT TABLE				
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
3002		990743.47	870849.84	IRON PIPE FOUND
3003		990742.20	870846.03	IRON ROD W/CAP
3004		990734.41	870847.10	IRON PIPE FOUND
3005		990654.86	870829.88	IRON PIPE FOUND
3006		990653.84	870829.18	IRON ROD W/CAP
3007		990651.54	870824.26	IRON PIPE FOUND

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9113	9113	NO MSD ID	990758.82	870751.72	EX STM INLET
9114	9114	25J4-217D	990732.60	870740.38	EX STM INLET
9115	9115	NO MSD ID	990671.80	870826.91	EX STM MH
9116	9116	25J4-166D	990746.69	870835.54	EX STM MH
9117	9117	NO MSD ID	990727.84	870867.06	EX STM INLET
9118	9118	NO MSD ID	990716.97	870931.59	EX STM GRATED INLET
9119	9119	25J4-138S	990739.60	870909.89	EX SAN MH
9129	9129	25J4-137S	990715.88	870660.65	EX SAN MH

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	15S	.	990638.09	870949.55	PROP MANHOLE
	16S	.	990674.57	870699.63	PROP MANHOLE
	17S	.	990720.19	870705.90	PROP MANHOLE



REFERENCE TIE
CONTROL POINT #200
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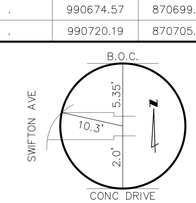
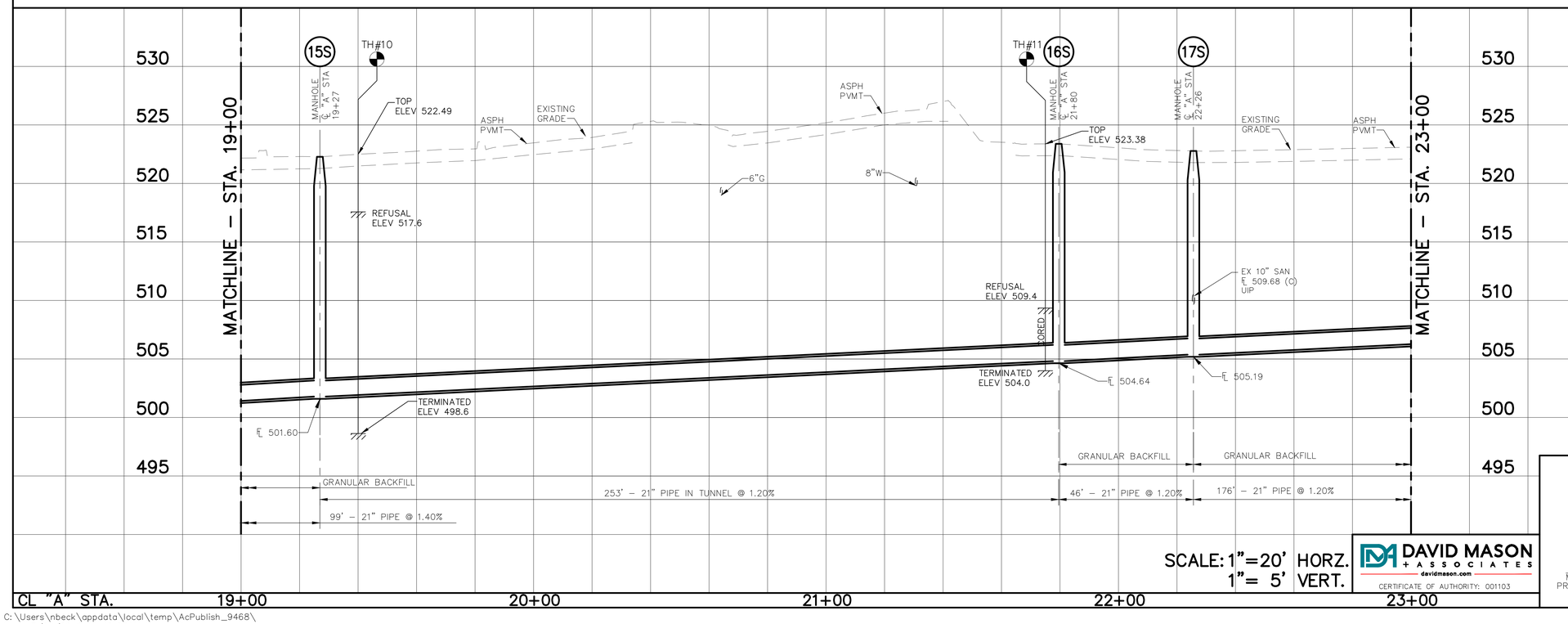


REFERENCE TIE
CONTROL POINT #201
ELEV. = 520.73



SCALE: 1"=20' HORZ.
1"= 5' VERT.

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Engineer Seal

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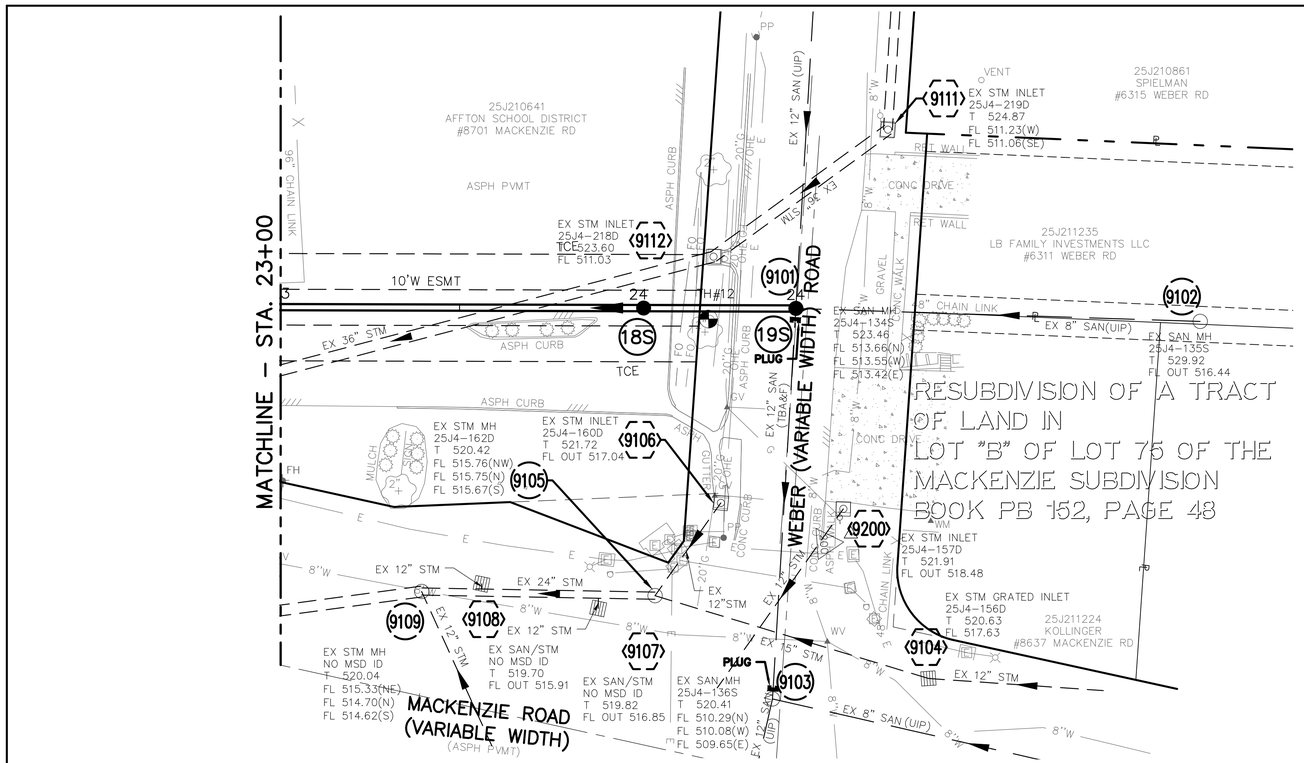
Checked M.E.D.
Date JULY, 2020
Sheet No 7 of 8

Path: C:\Users\nbeck\appdata\local\temp\AcPublish_9468\
Plotted on: 7/22/20 @ 11:45:07AM by nbeck

BASE MAP: 25J & 26J

12212-[C1-PXX]



SCALE: 1"=20'
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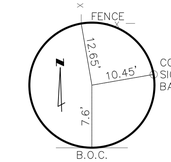
POINT TABLE			
CONTROL POINT #	MSD ID#	NORTHING	EASTING	DESCRIPTION
200		990948.62	870786.55	TP ROD

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9101	9101	25J4–134S	990937.92	870722.53	EX SAN MH
9103	9103	25J4–136S	990923.38	870830.88	EX SAN MH
9104	9104	25J4–156D	990967.26	870828.38	EX STM GRATED INLET
9105	9105	25J4–162D	990892.75	870799.68	EX STM MH
9106	9106	25J4–160D	990913.03	870775.18	EX STM INLET
9107	9107	NO MSD ID	990876.67	870802.07	EX SAN/STM
9108	9108	NO MSD ID	990844.66	870792.83	EX SAN/STM
9109	9109	NO MSD ID	990827.82	870793.73	EX STM MH
9111	9111	25J4–219D	990967.26	870674.59	EX STM INLET
9112	9112	25J4–218D	990916.02	870706.39	EX STM INLET
9200	9200	25J4–157D	990947.04	870779.36	EX STM INLET

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
	18S	.	990895.50	870719.29	PROP MANHOLE
	19S	.	990937.92	870722.53	PROP MANHOLE



REFERENCE TIE
CONTROL POINT #200
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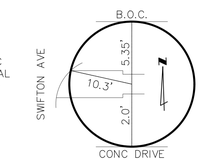
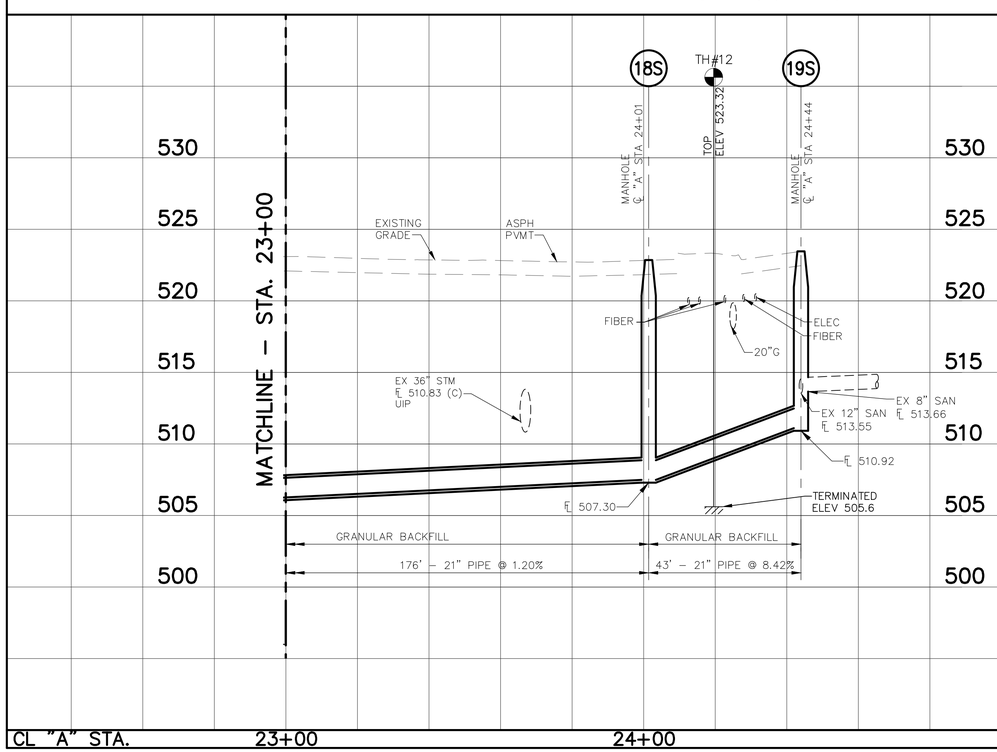


REFERENCE TIE
CONTROL POINT #201
ELEV. = 520.73



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