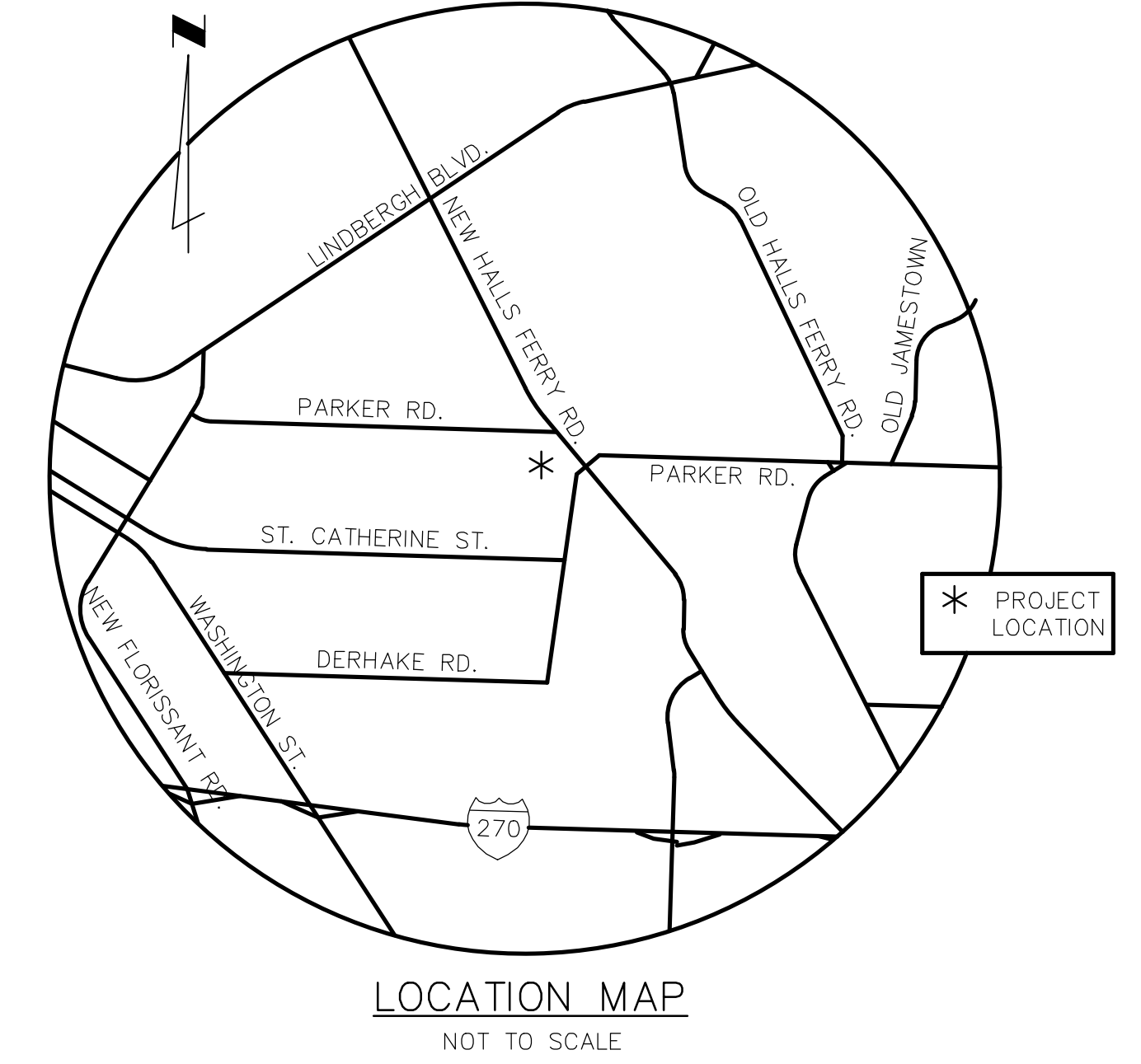


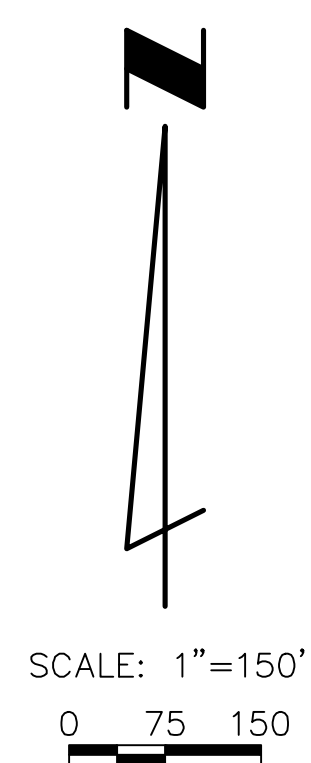
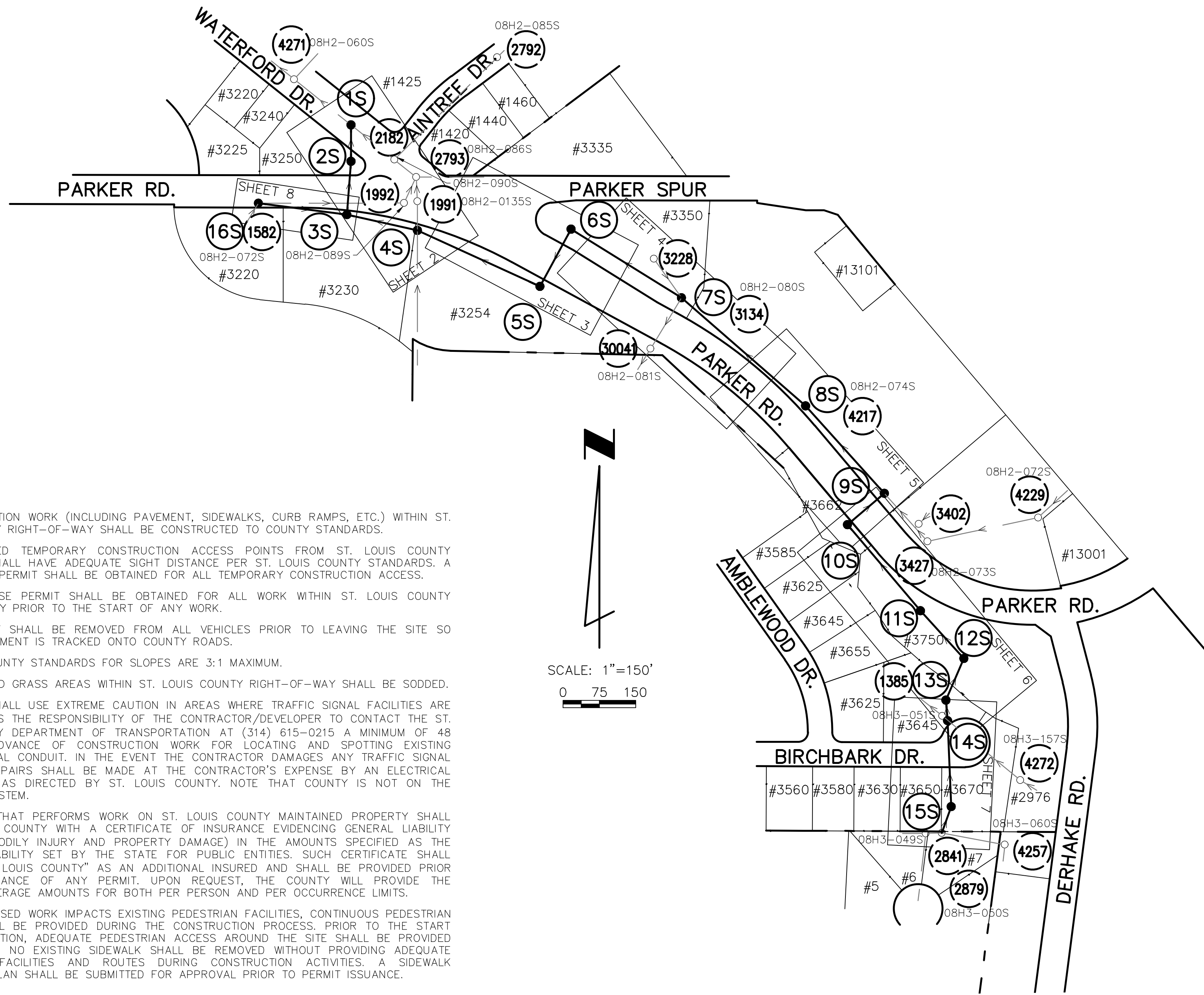
METROPOLITAN ST. LOUIS SEWER DISTRICT

AMBLEWOOD SANITARY RELIEF (WATERFORD DR TO BIRCHBARK DR)



LEGEND

EXISTING		NEW
	MANHOLE	
	INLET MANHOLE	
	INLET	
	DOUBLE INLET	
	MANHOLE DESIGNATOR	
	INLET OR STRUCTURE DESIGNATOR	
	OUTLET OR FES DESIGNATOR	
	JUNCTION CHAMBER DESIGNATOR	
	PIPE 6" THRU 18"	
	PIPE 21" THRU 108"	
	FENCE	
	UNDERGROUND UTILITIES	
	FLOWLINE OF CREEK OR DITCH	
	GUARD RAIL	
	TREE	
	BUSH	
	HEDGE ROW	
	UTILITY METER OR VALVE	
	POWER POLE	
	POWER POLE & GUY	
	STREET SIGN	
	FIRE HYDRANT	
	LIGHT STANDARD	
	MAIL BOX	
	HOUSE VENT	
	TRAFFIC SIGNAL	
	UTILITY BOX	
	CONTROL POINT/TRVERSE POINT	
	CONTROL POINT DESIGNATOR	
	TRAVERSE POINT DESIGNATOR	
	TEST HOLE	



- GENERAL NOTES:
- ALL RESTORATION WORK (INCLUDING PAVEMENT, SIDEWALKS, CURB RAMPS, ETC.) WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL BE CONSTRUCTED TO COUNTY STANDARDS.
 - ALL PROPOSED TEMPORARY CONSTRUCTION ACCESS POINTS FROM ST. LOUIS COUNTY ROADWAYS SHALL HAVE ADEQUATE SIGHT DISTANCE PER ST. LOUIS COUNTY STANDARDS. A SPECIAL USE PERMIT SHALL BE OBTAINED FOR ALL TEMPORARY CONSTRUCTION ACCESS.
 - A SPECIAL USE PERMIT SHALL BE OBTAINED FOR ALL WORK WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY PRIOR TO THE START OF ANY WORK.
 - ALL SEDIMENT SHALL BE REMOVED FROM ALL VEHICLES PRIOR TO LEAVING THE SITE SO THAT NO SEDIMENT IS TRACKED ONTO COUNTY ROADS.
 - ST. LOUIS COUNTY STANDARDS FOR SLOPES ARE 3:1 MAXIMUM.
 - ALL DISTURBED GRASS AREAS WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL BE SODDER.
 - APPLICANT SHALL USE EXTREME CAUTION IN AREAS WHERE TRAFFIC SIGNAL FACILITIES ARE EXISTING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER TO CONTACT THE ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION AT (314) 615-0215 A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION WORK FOR LOCATING AND SPOTTING EXISTING TRAFFIC SIGNAL CONDUIT. IN THE EVENT THE CONTRACTOR DAMAGES ANY TRAFFIC SIGNAL FACILITIES, REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BY AN ELECTRICAL CONTRACTOR AS DIRECTED BY ST. LOUIS COUNTY. NOTE THAT COUNTY IS NOT ON THE ONE-CALL SYSTEM.
 - ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC COVERAGE AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
 - WHERE PROPOSED WORK IMPACTS EXISTING PEDESTRIAN FACILITIES, CONTINUOUS PEDESTRIAN ACCESS SHALL BE PROVIDED DURING THE CONSTRUCTION PROCESS. PRIOR TO THE START OF CONSTRUCTION, ADEQUATE PEDESTRIAN ACCESS AROUND THE SITE SHALL BE PROVIDED AND VERIFIED. NO EXISTING SIDEWALK SHALL BE REMOVED WITHOUT PROVIDING ADEQUATE PEDESTRIAN FACILITIES AND ROUTES DURING CONSTRUCTION ACTIVITIES. A SIDEWALK CONTINUITY PLAN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PERMIT ISSUANCE.

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.

INDEX

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

- M.S.D. BENCHMARKS**
STATE PLANE COORDINATES AND ELEVATIONS ON THIS PROJECT WERE ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING REFERENCE STATIONS DURING THE MONTH OF DECEMBER, 2020, AND ARE BASED ON THE MISSOURI COORDINATE SYSTEM 1983, EAST ZONE AND THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
- PROJECT BENCHMARKS**
- SBM #1 - ELEVATION - 529.414
SET ON THE SOUTHEAST BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WATERFORD DRIVE WITH AINTREE DRIVE
 - SBM #2 - ELEVATION - 536.985
SET CUT "X" ON THE NORTH END OF A MEDIAN ON PARKER ROAD BETWEEN THE NORTHBOUND AND SOUTHBOUND LANES, APPROXIMATELY 340 FEET NORTH OF THE INTERSECTION OF DERHAKE ROAD WITH PARKER ROAD.
 - SBM #3 - ELEVATION - 539.237
SET ON THE EAST BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF BIRCHBARK DRIVE WITH AMBLEWOOD DRIVE.

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REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
ST. LOUIS, MO 63103
(314) 768-6200

**AMBLEWOOD SANITARY RELIEF
(WATERFORD DR TO BIRCHBARK DR)
12077-015.1
FLORISSANT, MISSOURI**

Designed: J.X. Date: JULY, 2021
Drawn: J.X. Sheet No. 1 of 8
Checked: J.M.L.

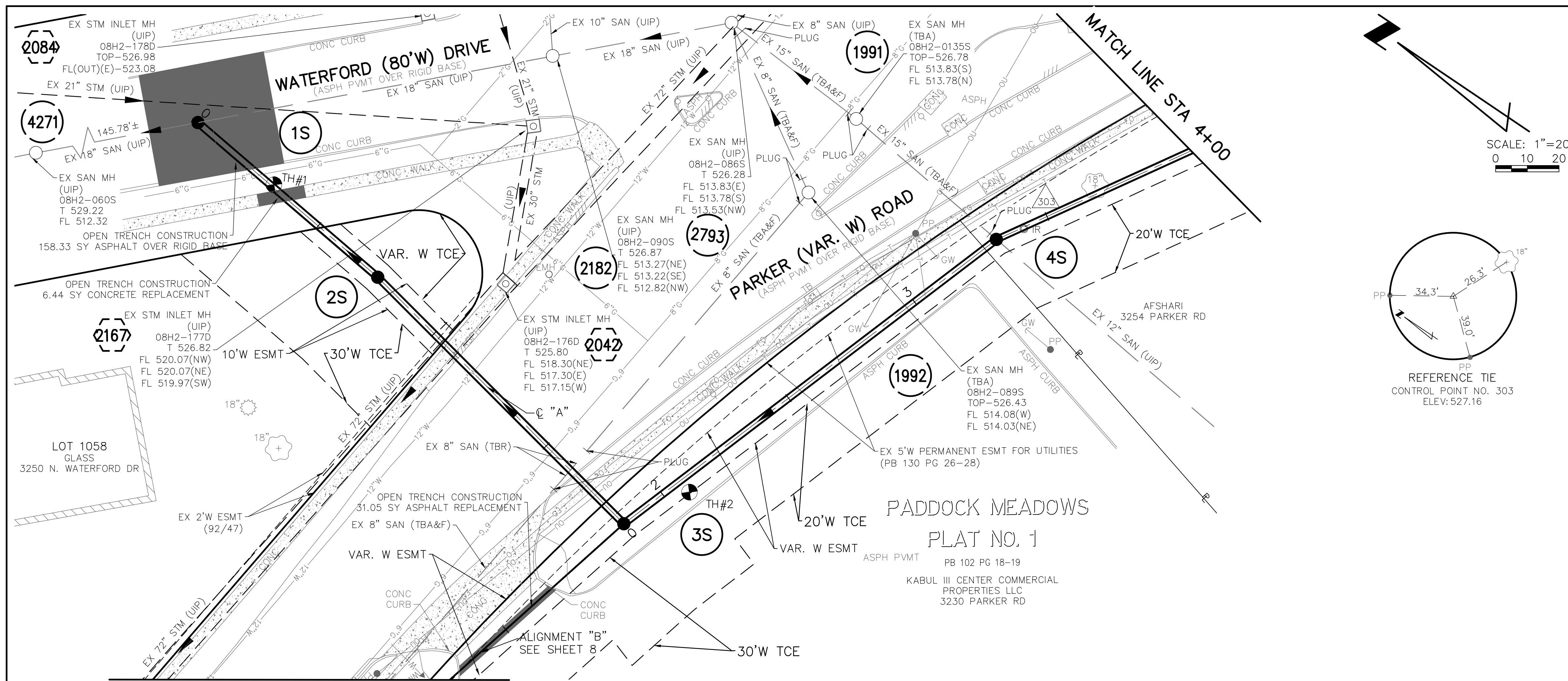
wood.
15933 Clayton Road, Suite 215
Ballwin, Missouri 63011
Phone: 636-200-5100 Fax: 636-402-3005
Discipline: Engineering Corporation
Corporate Certificate Of Authority: #200200326

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5220 OAKLAND AVENUE
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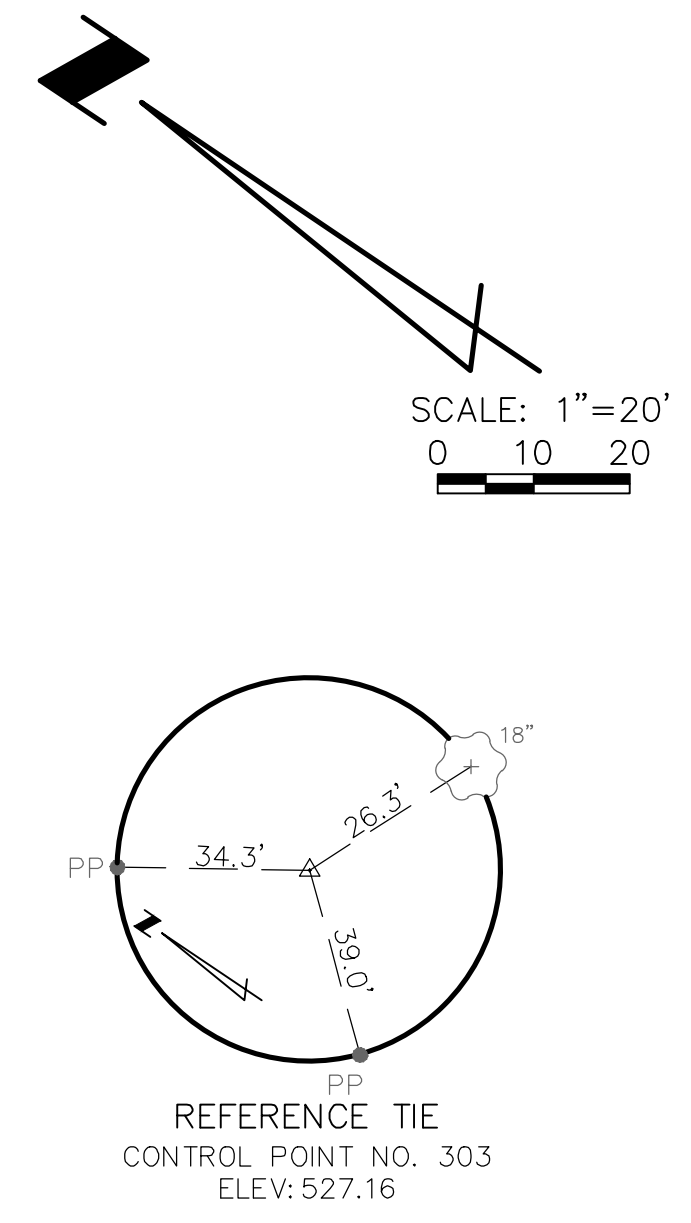
JEREMY M. LINLEY, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: July 12, 2021



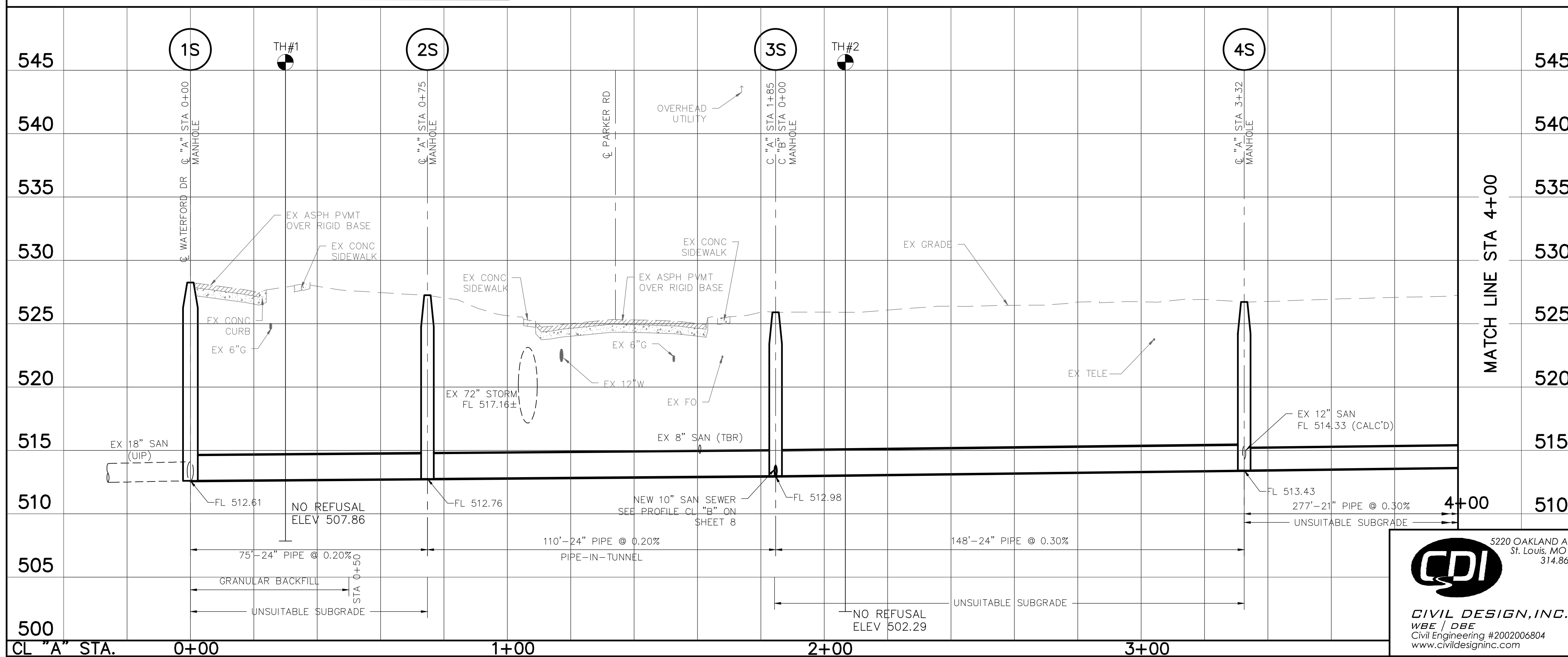
POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
303		1078438.06	879322.52	IRON ROD

EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
1991	1991	08H2-0135S	1078500.77	879314.30	EX SAN MH
1992	1992	08H2-089S	1078497.09	879286.87	EX SAN MH
2042	2042	08H2-176D	1078550.73	879202.83	EX STM INLET MH
2084	2084	08H2-178D	1078625.10	879251.31	EX STM INLET MH
2167	2167	08H2-177D	1078576.51	879246.16	EX STM INLET MH
2182	2182	08H2-090S	1078586.31	879266.92	EX SAN MH
4271	4271	08H2-060S	1078751.26	879061.20	EX SAN MH
2793	2793	08H2-086S	1078550.37	879311.65	EX SAN MH

NEW STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
	1S		1078657.56	879178.06	MANHOLE
	2S		1078582.73	879178.06	MANHOLE
	3S		1078473.21	879169.71	MANHOLE
	4S		1078442.45	879314.31	MANHOLE



- NOTES:
- IN THE CASE OF CLOSURE OF ROAD OWNED BY THE CITY OF FLORISSANT, CONTRACTOR SHALL SUBMIT A COPY OF THE TRAFFIC PLAN FOR THE CLOSURES TO THE CITY ENGINEER AND EMERGENCY SERVICE.
 - FOR TUNNELING OPERATION AT MANHOLE 3S, CONTRACTOR SHALL LIMIT THE NUMBER OF PARKING SPACES DISTURBED AT MINIMUM AND MAINTAIN FULL ACCESS TO THE REST OF PARKING SPACES AT 3230 PARKER RD.



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

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**METROPOLITAN
ST. LOUIS SEWER DISTRICT**

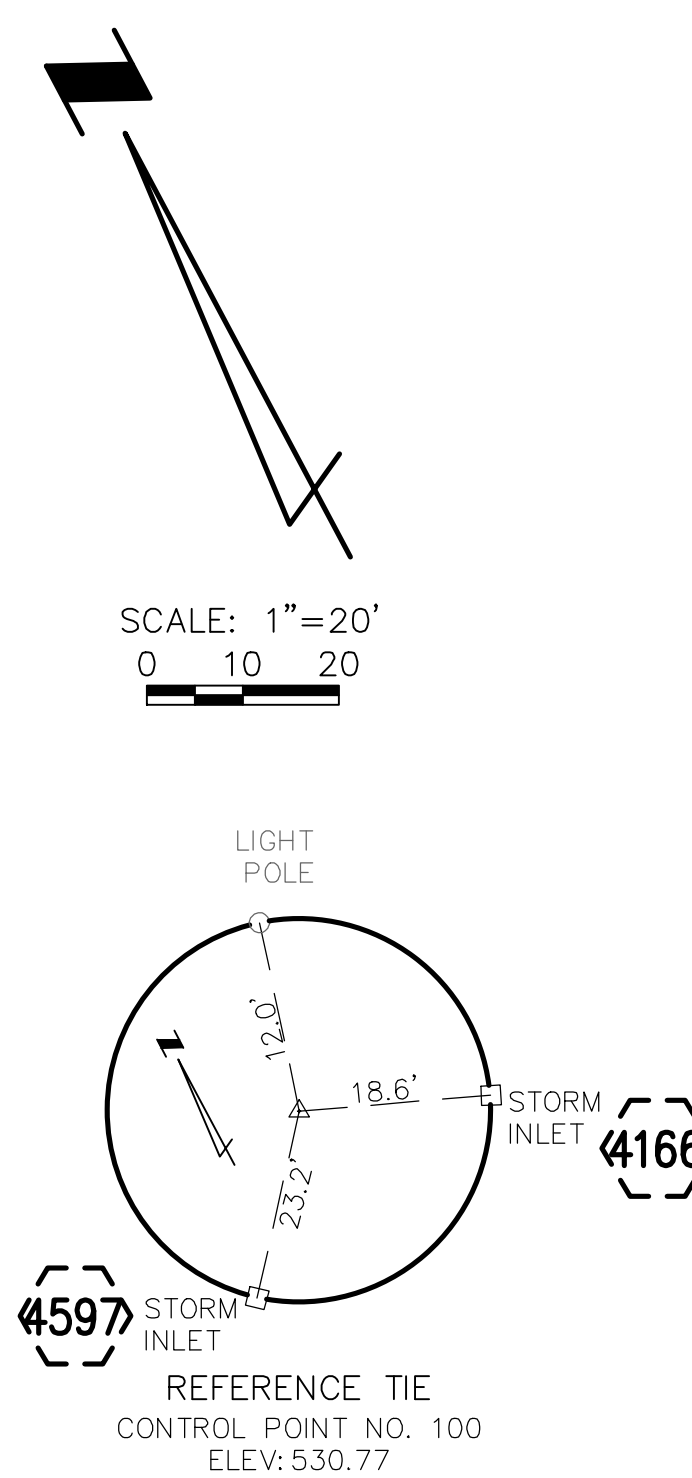
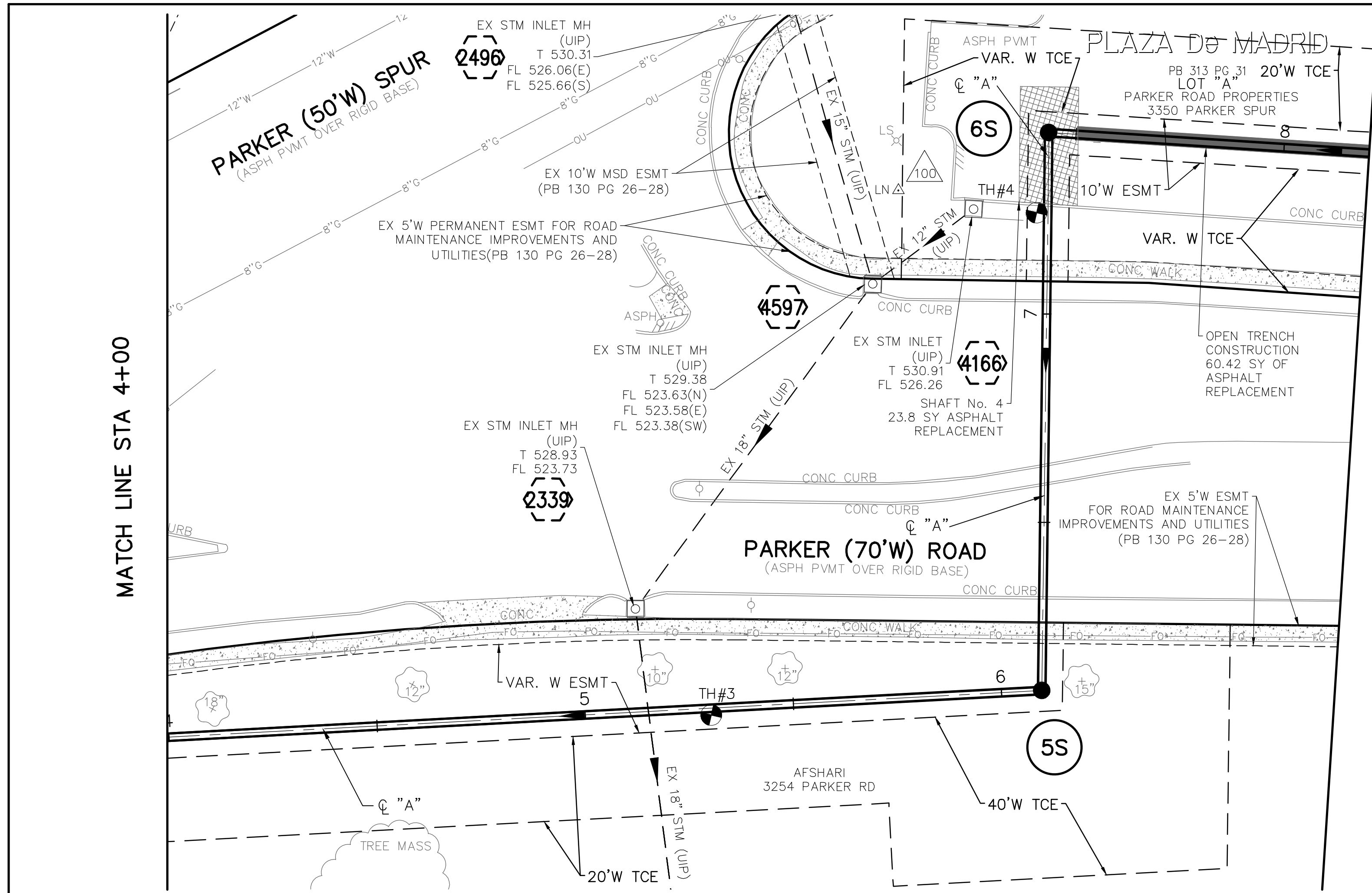
**AMBLEWOOD SANITARY RELIEF
(WATERFORD DR TO BIRCHBARK DR)
12077-015.1
FLORISSANT, MISSOURI**

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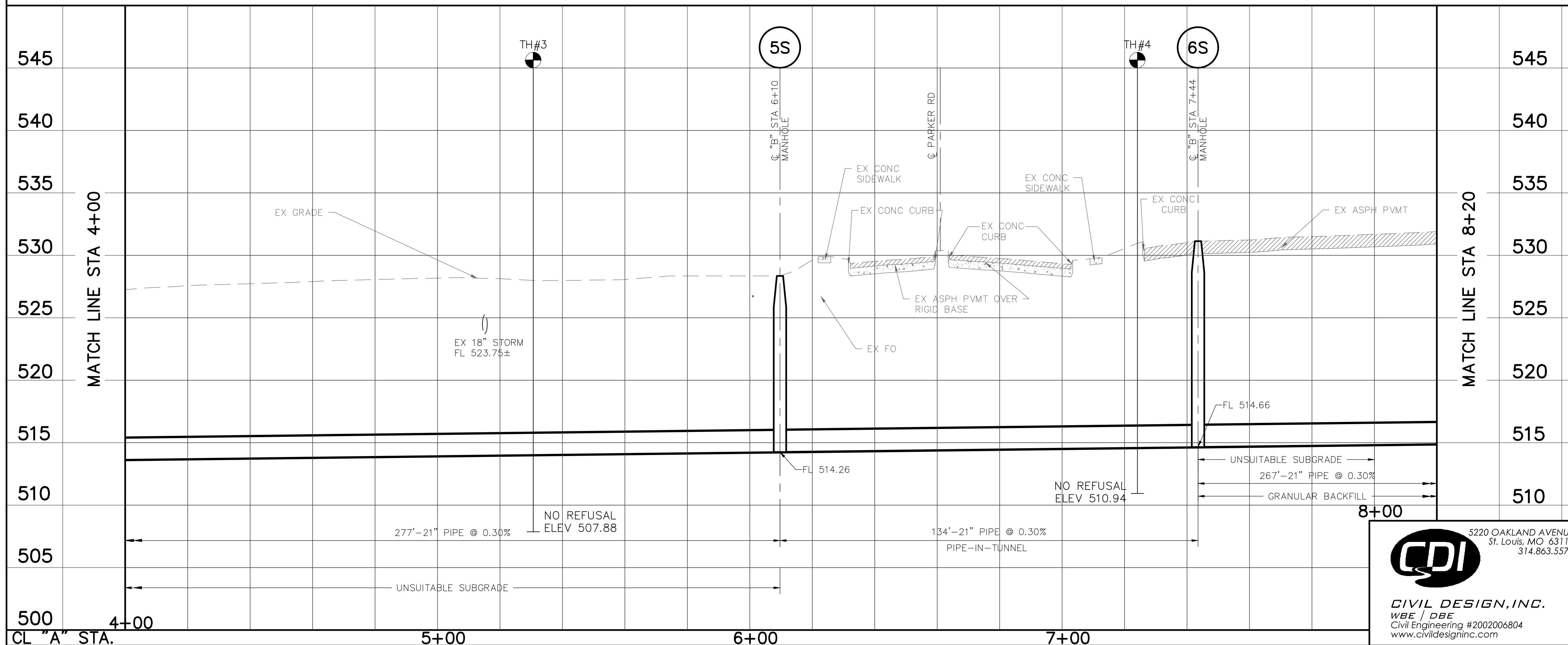
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 314.863.5570

Engineer Seal
JEREMY M. LINLEY, P.E.
 PROFESSIONAL ENGINEER
 P.E. No. 2012018099
 Date: July 12, 2021



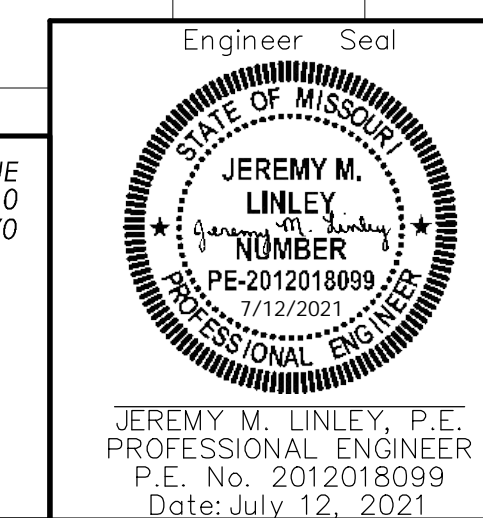
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100		1078448.13	879591.55	IRON NAIL	
EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
2339	2339		1078388.89	879488.87	EX STM INLET MH
2496	2496		1078498.93	879589.96	EX STM INLET MH
4166	4166		1078435.72	879605.42	EX STM INLET
4597	4597		1078431.20	879575.64	EX STM INLET MH
NEW STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
	5S		1078326.02	879565.83	MANHOLE
	6S		1078443.53	879629.91	MANHOLE

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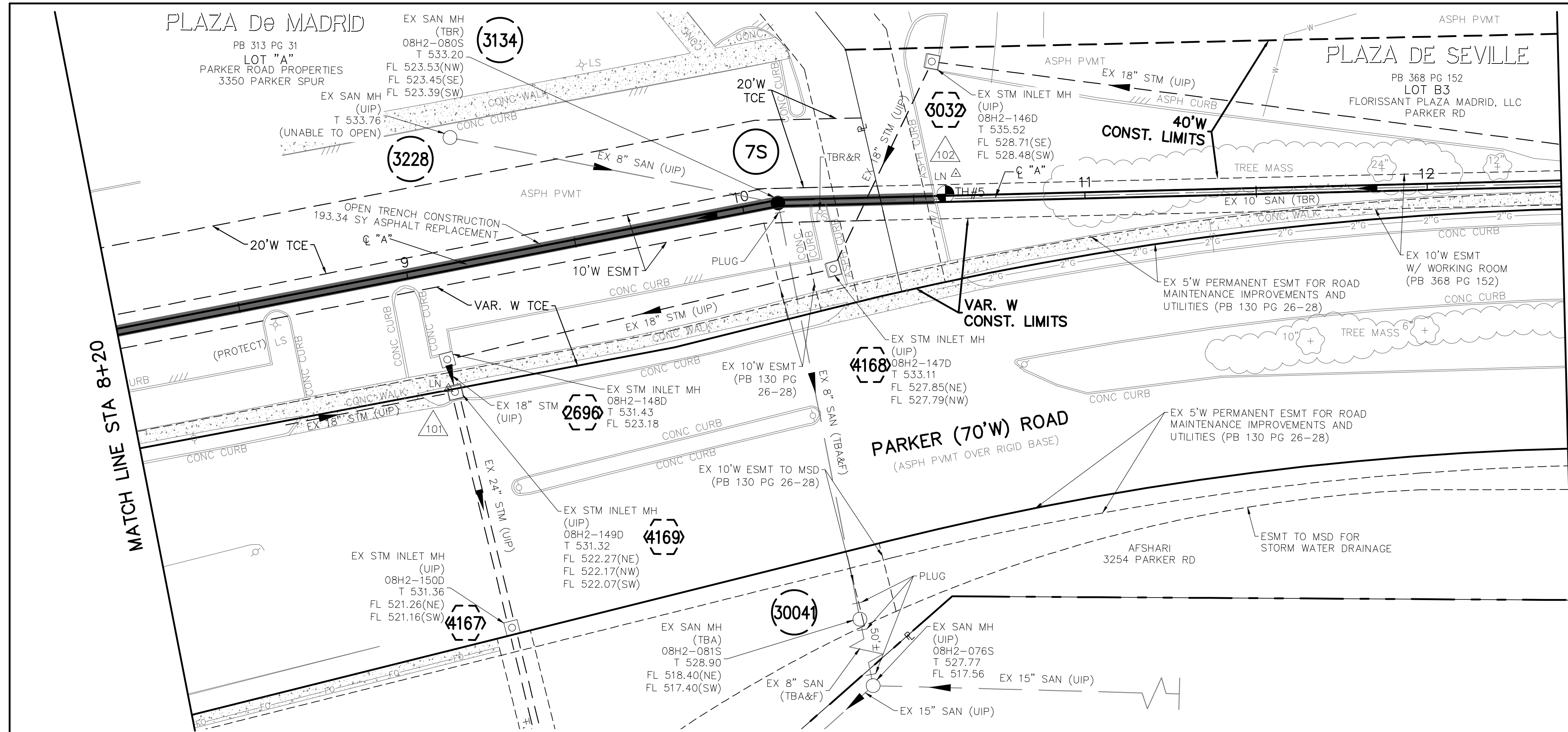
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1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY
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Designed	J.X.	Date	JULY, 2021
Drawn	J.X.	Sheet No.	3 of 8
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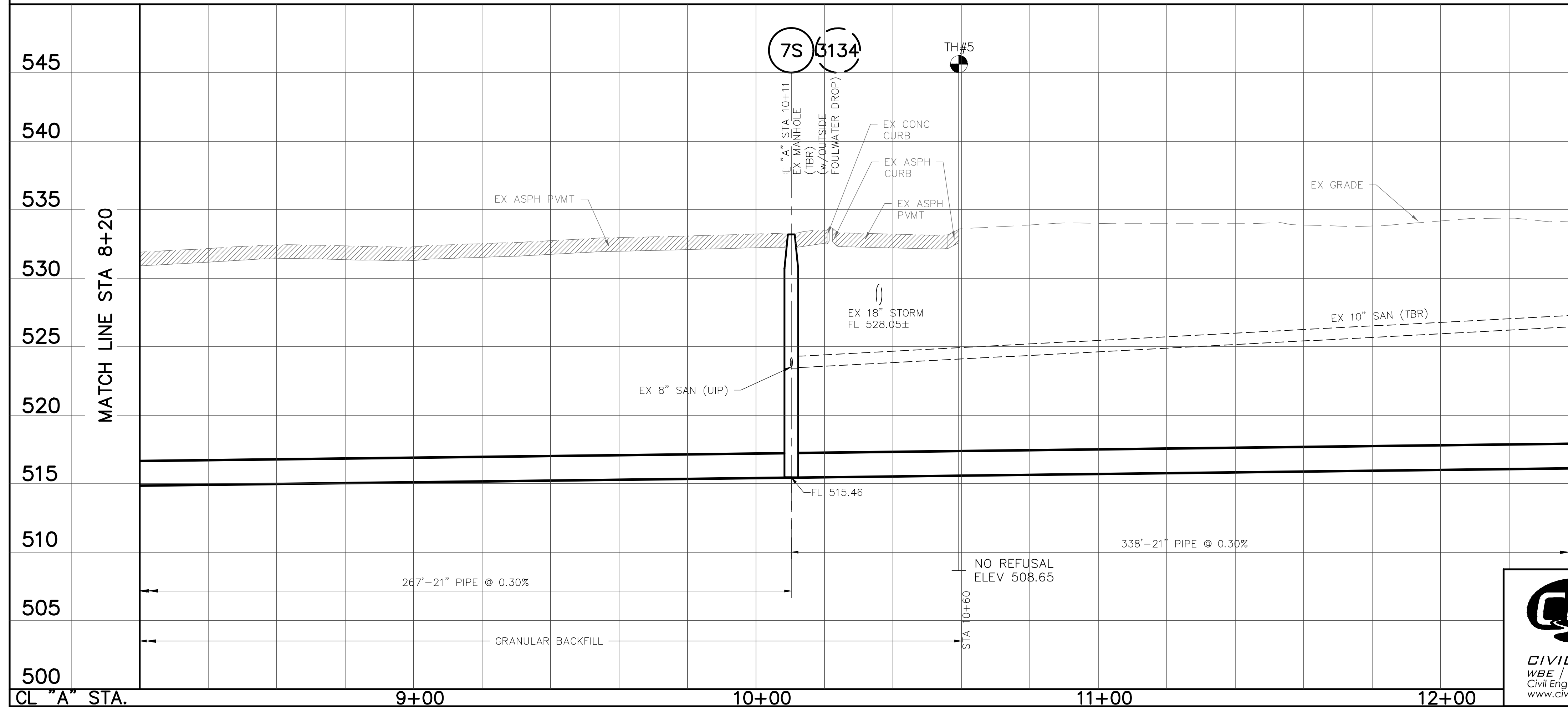
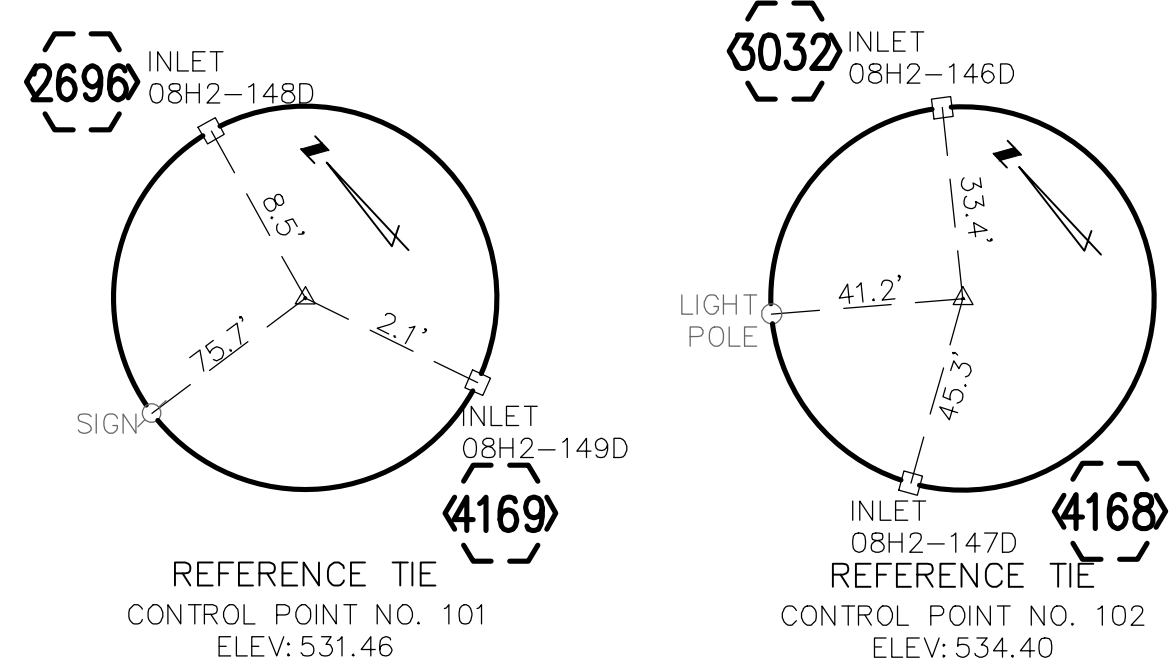


MATCH LINE STA 12+40

SCALE: 1"=20'
0 10 20

NOTES:

- EXISTING SANITARY MANHOLE 08H2-076S IS LOCATED IN THE BACKYARD OF 3458 AMBLEWOOD DRIVE. THE STRUCTURE IS NOT SURVEYED. MSD BASEMAP SHOWED THAT REACH 08H2-081S; 08H2-076S IS CROSSING THE UNNAMED CREEK.

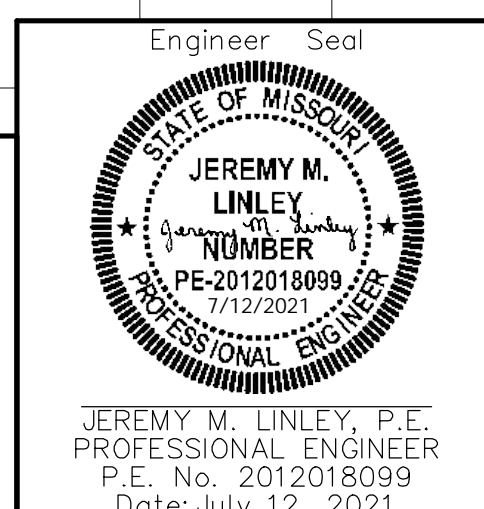


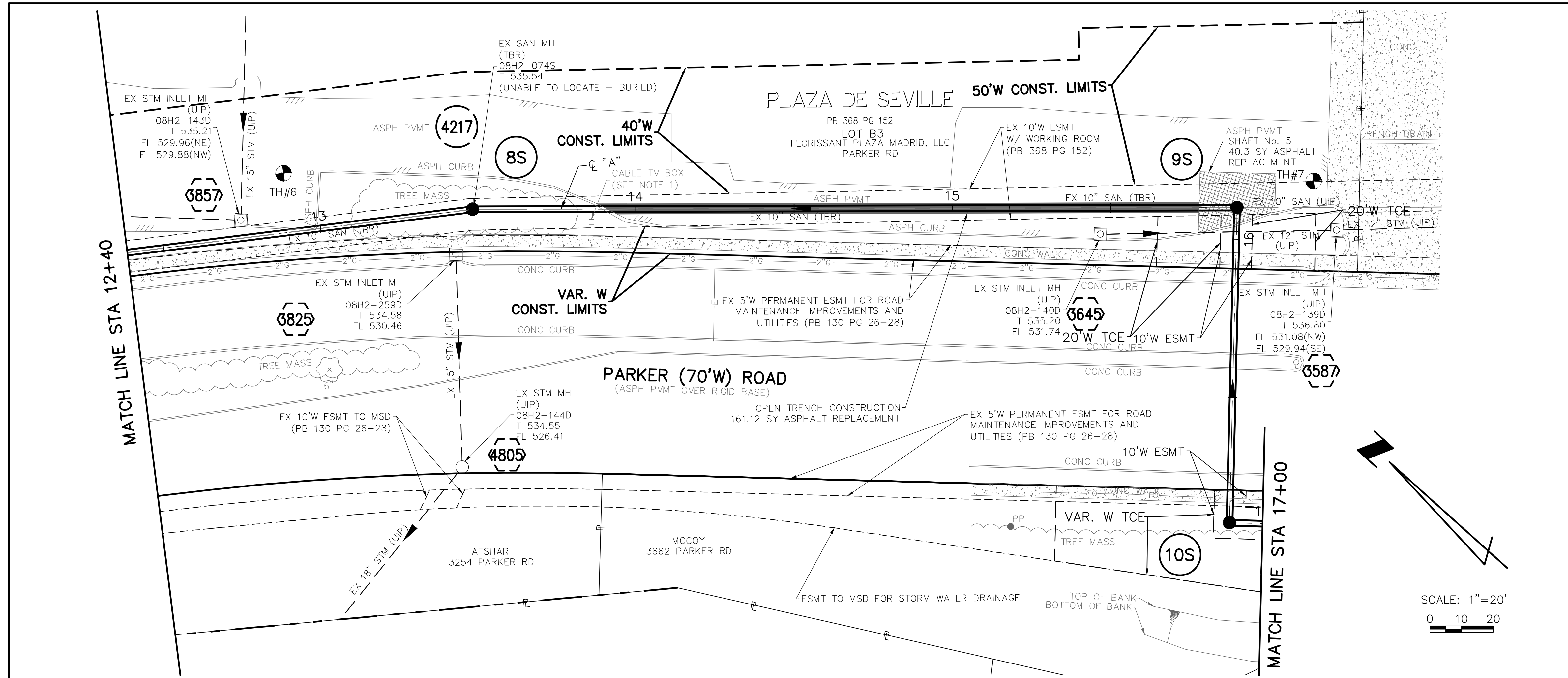
MATCH LINE STA 12+40

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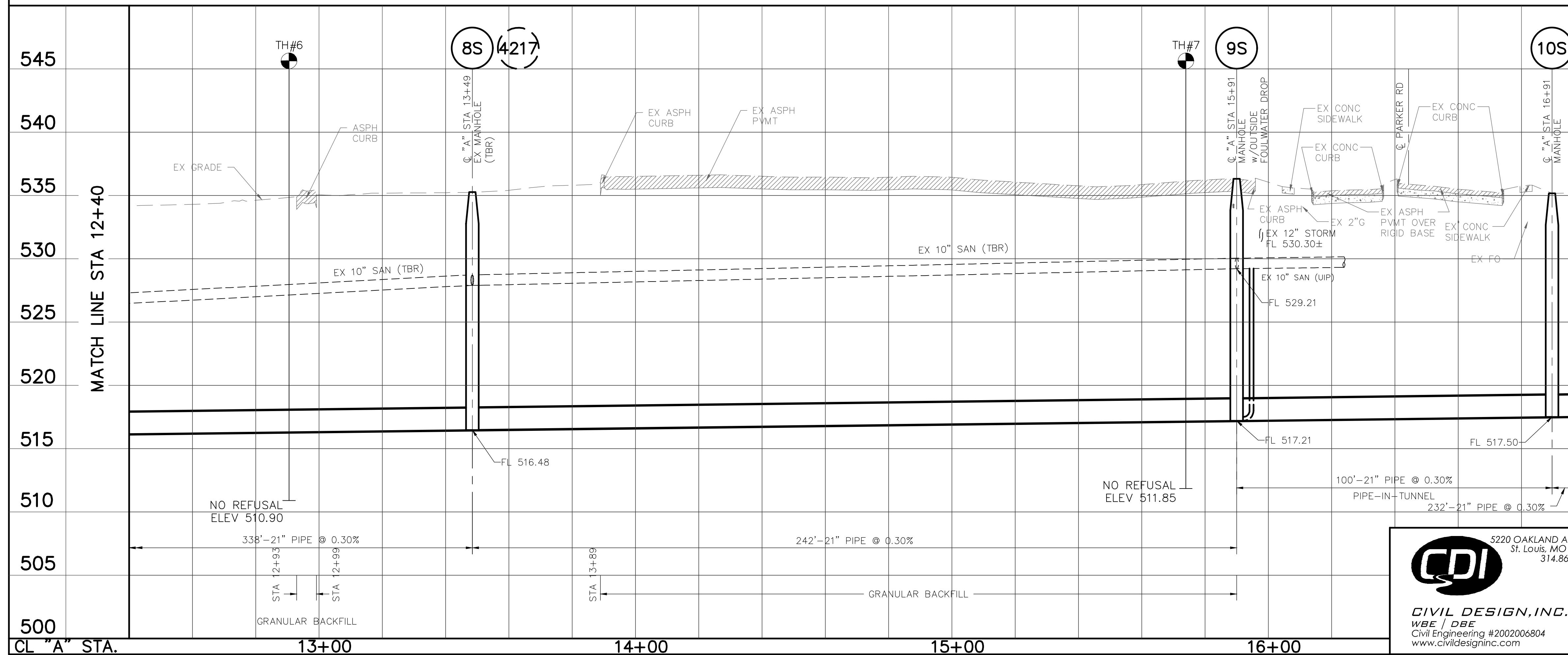


EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
3587	3587	08H2-139D	1077873.22	880288.74	EX STM INLET MH
3645	3645	08H2-140D	1077928.10	880238.10	EX STM INLET MH
3825	3825	08H2-259D	1078075.91	880097.91	EX STM INLET MH
3857	3857	08H2-143D	1078133.79	880060.75	EX STM INLET MH
4217	4217	08H2-074S	1078081.42	880112.02	EX SAN MH
4805	4805	08H2-144D	1078029.65	880049.02	EX STM MH

NEW STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
4217	8S	08H2-074S	1078081.42	880112.02	MANHOLE
	9S		1077901.47	880273.16	MANHOLE w/ OUTSIDE FOULWATER DROP
	10S		1077836.97	880197.21	MANHOLE

NOTES:
 1. CONTRACTOR SHALL VERIFY THE OWNERSHIP OF THE CABLE TV BOX NEAR STA 14+00 AND REMOVE OR PROTECT THE BOX AS NECESSARY.

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**METROPOLITAN
ST. LOUIS SEWER DISTRICT**

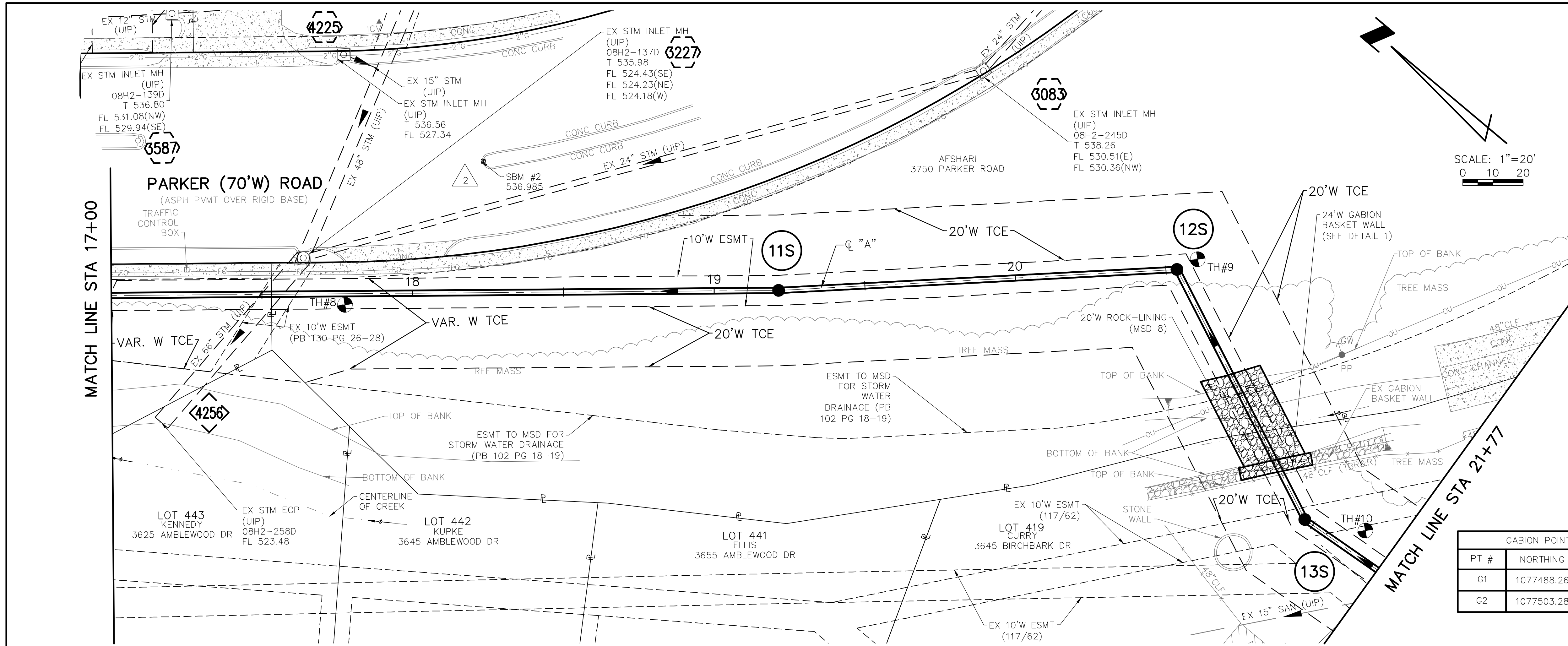
**AMBLEWOOD SANITARY RELIEF
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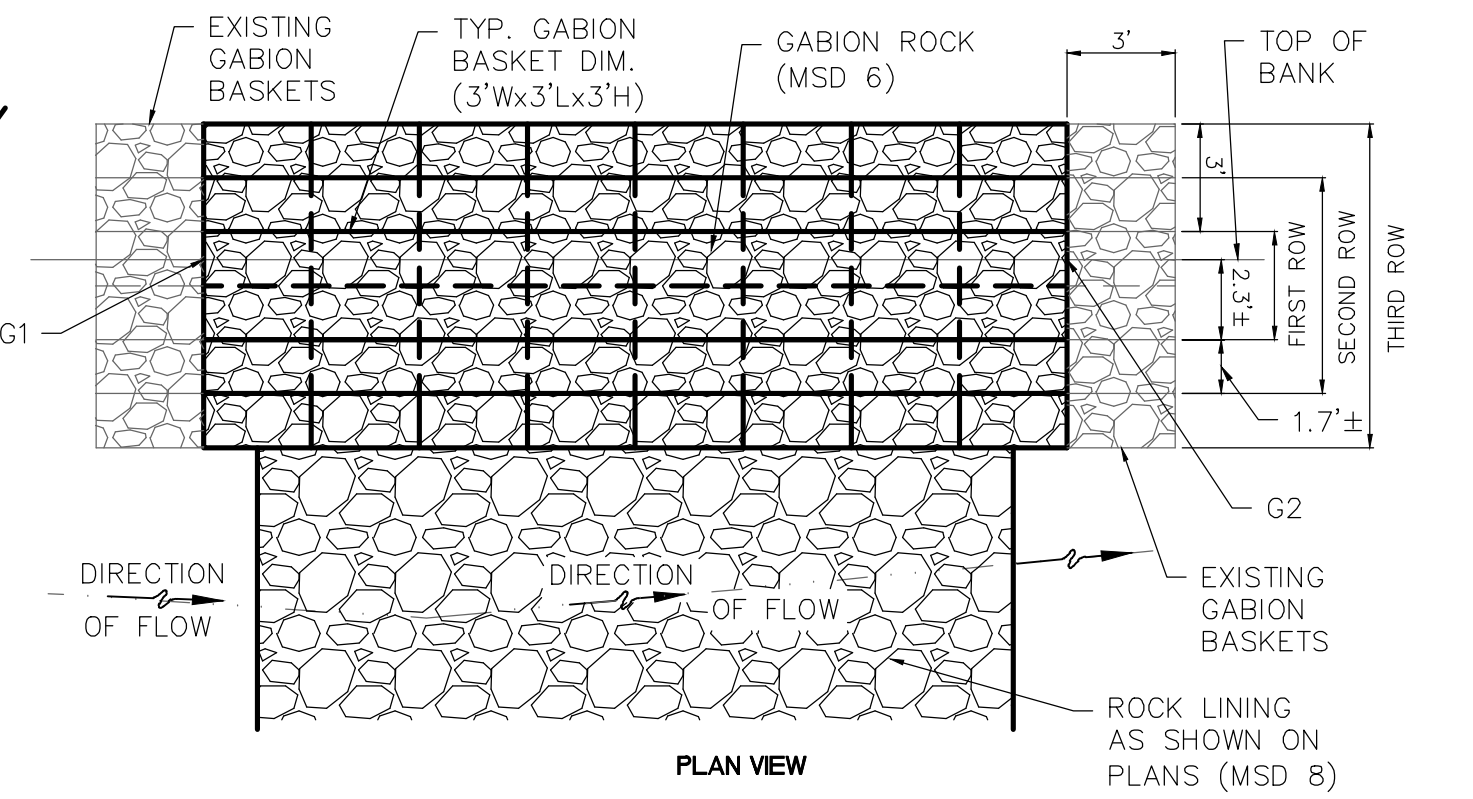
5220 OAKLAND AVENUE
 St. Louis, MO 63110
 314.863.5370

Engineer Seal
 STATE OF MISSOURI
JEREMY M. LINLEY
 PROFESSIONAL ENGINEER
 NUMBER
 PE-2012018099
 7/12/2021
 PROFESSIONAL ENGINEER
 JEREMY M. LINLEY, P.E.
 PROFESSIONAL ENGINEER
 P.E. No. 2012018099
 Date: July 12, 2021



EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
3083	3083	08H2-245D	1077653.93	880445.88	EX STM INLET MH
3227	3227	08H2-137D	1077787.94	880254.15	EX STM INLET MH
3587	3587	08H2-139D	1077873.22	880288.74	EX STM INLET MH
4225	4225	08H2-206D	1077820.66	880314.60	EX STM INLET MH
4256	4256	08H2-258D	1077789.30	880182.09	EX STM EOP

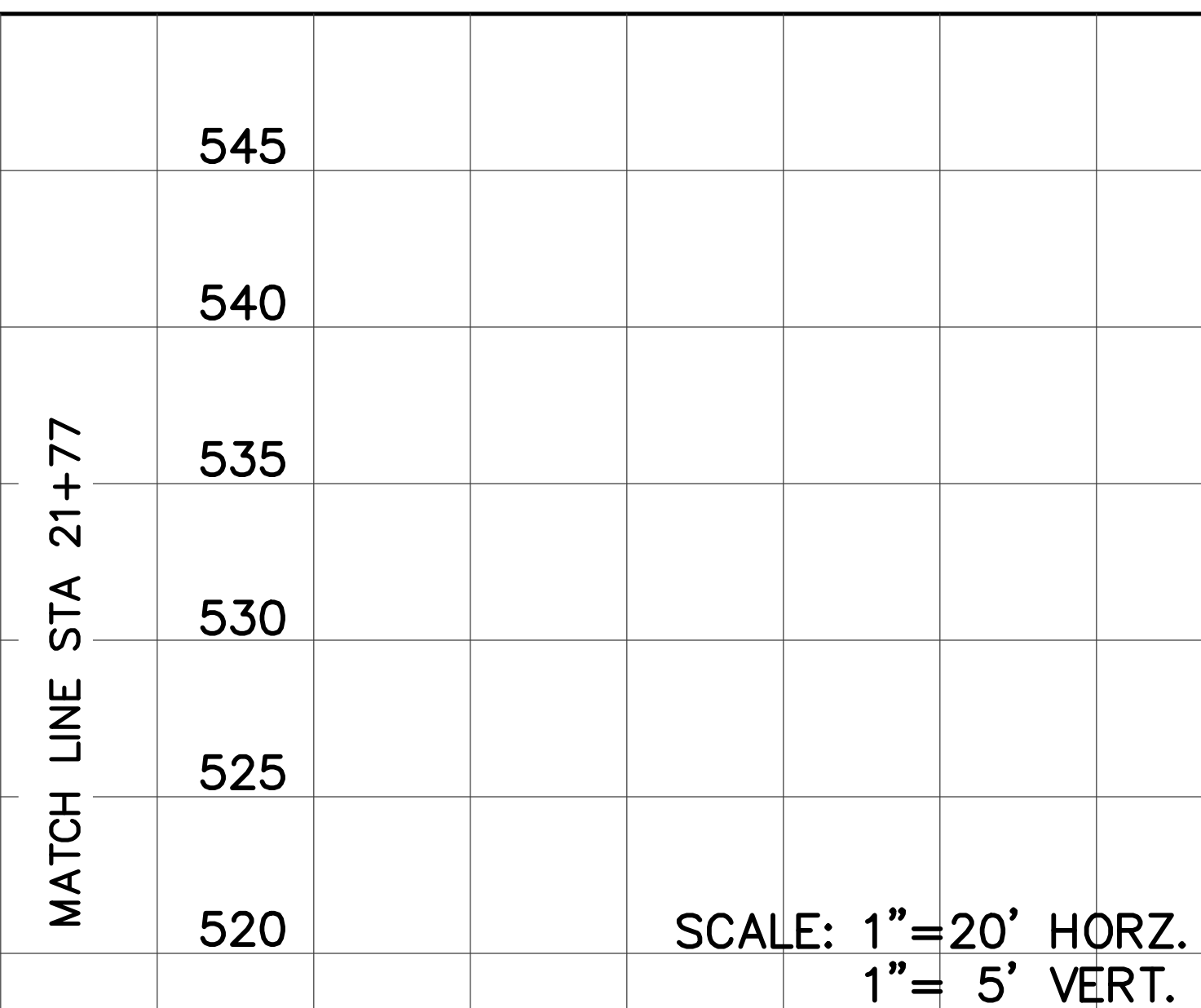
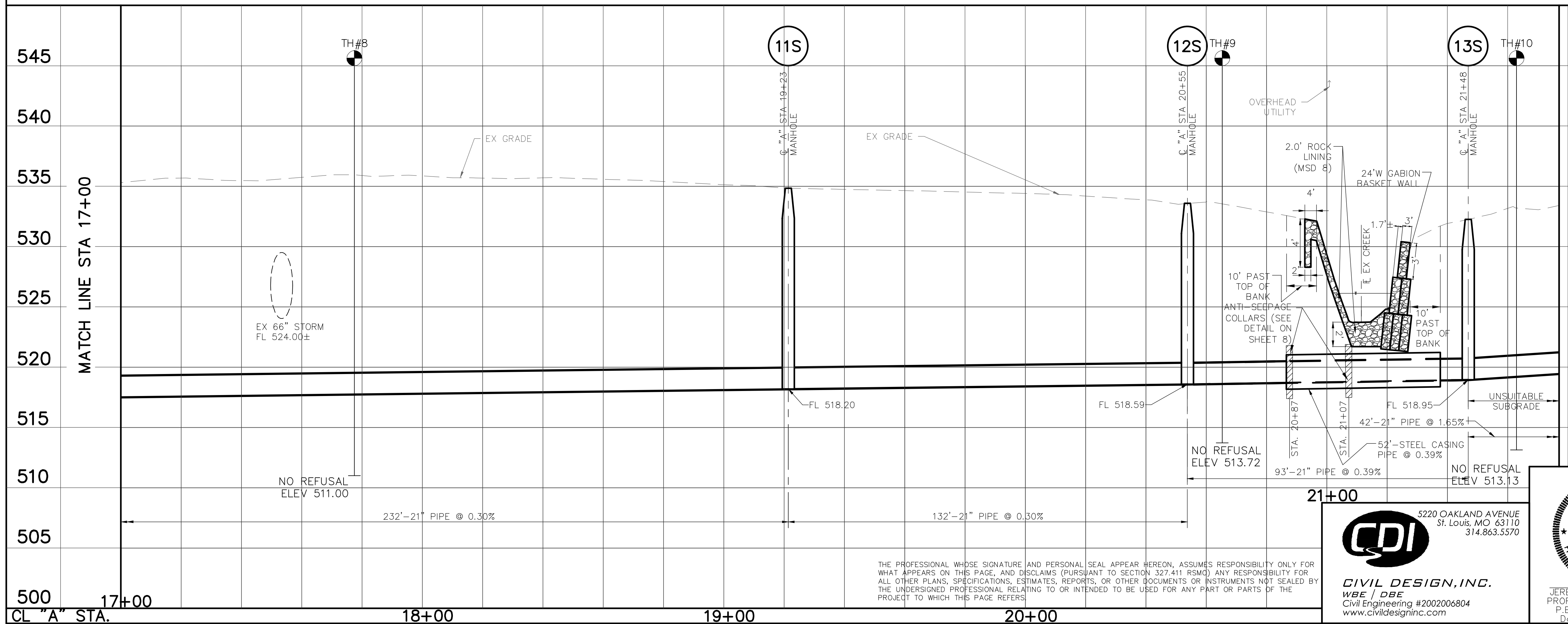
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	11S		1077659.74	880346.56	MANHOLE
	12S		1077540.75	880456.29	MANHOLE
	13S		1077476.89	880399.51	MANHOLE



GABION POINT TABLE		
PT #	NORTHING	EASTING
G1	1077488.26	880416.59
G2	1077503.28	880397.50

NOTE: CONTRACTOR SHALL ADJUST THE SIZE OF THE GABION BASKET AS NEEDED TO MATCH WITH THE SEAM AND CONFIGURATION OF THE EXISTING GABION BASKET WALL. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO ADJUSTMENTS.

DETAIL 1: GABION DETAIL
SCALE: N.T.S.



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

REV.	DATE	DESCRIPTION	BY

METROPOLITAN
ST. LOUIS SEWER DISTRICT

AMBLEWOOD SANITARY RELIEF
(WATERFORD DR TO BIRCHBARK DR)
12077-015.1
FLORISSANT, MISSOURI

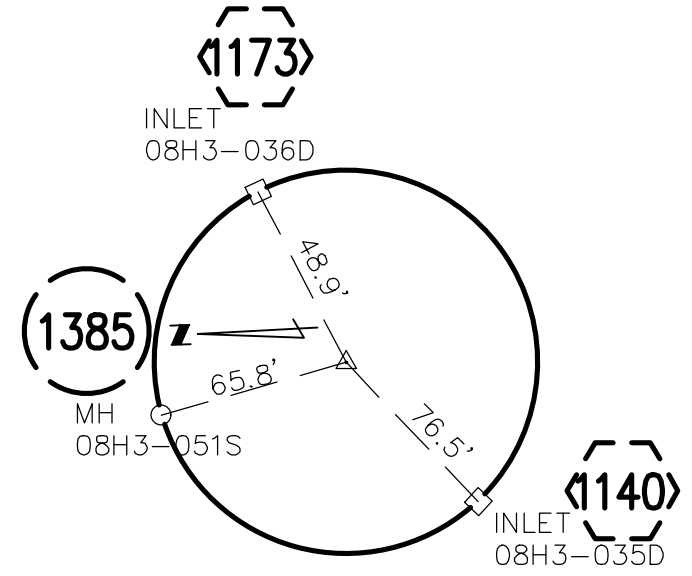
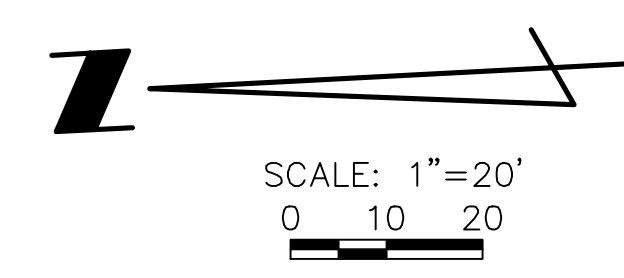
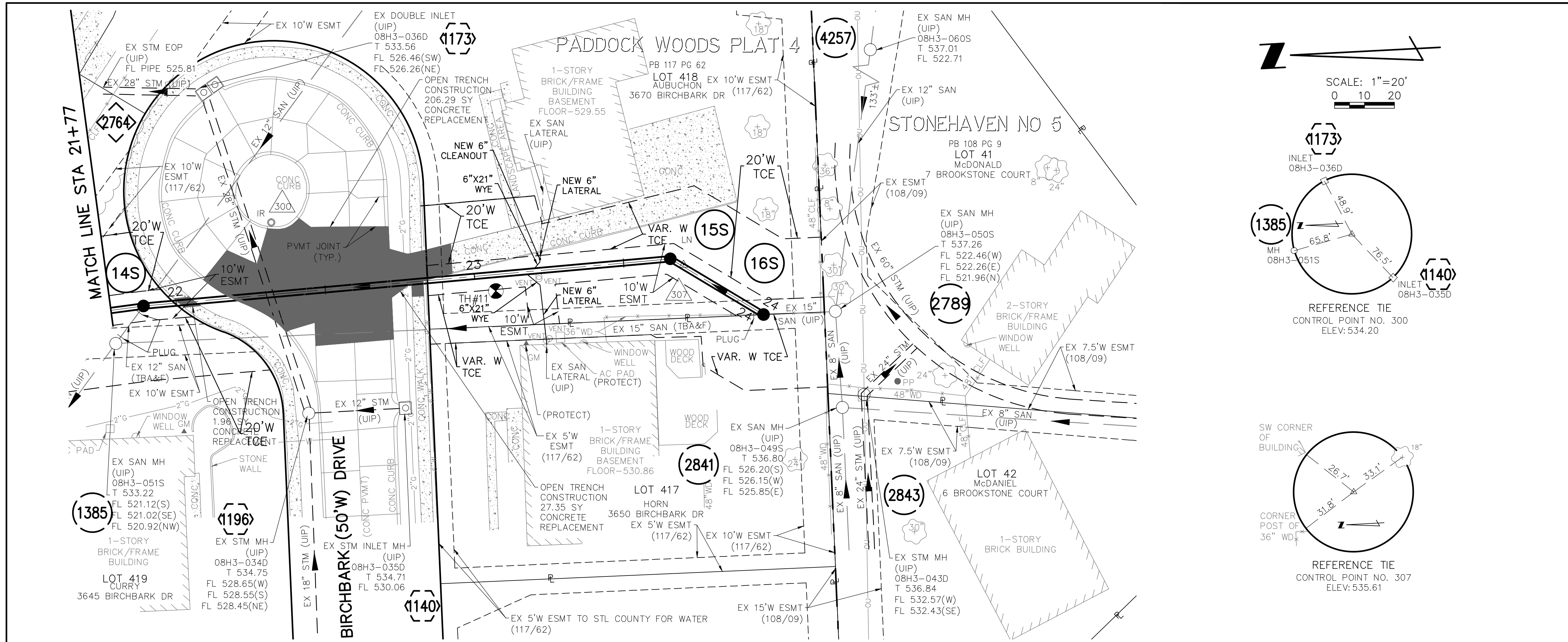
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Sheet No. 6 of 8

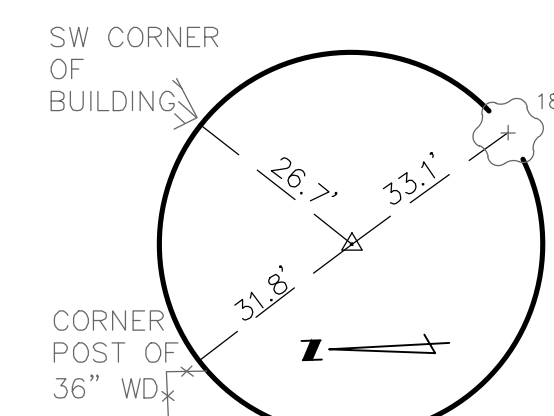
Engineer Seal
JEREMY M. LINLEY, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: July 12, 2021

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REFERENCE TIE
CONTROL POINT NO. 300
ELEV: 534.20



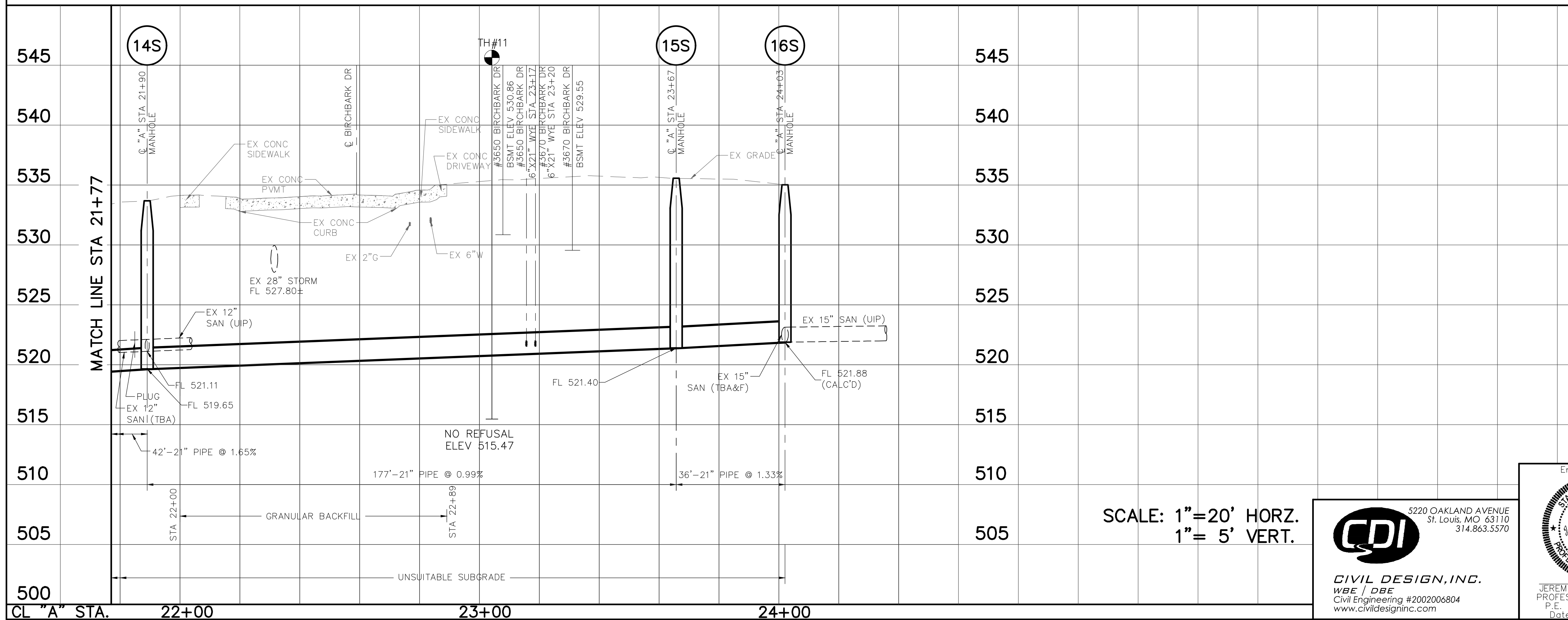
REFERENCE TIE
CONTROL POINT NO. 307
ELEV: 535.61

POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
300		1077390.85	880428.90	IRON ROD
307		1077254.07	880408.09	IRON NAIL

EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
1140	1140	08H3-035D	1077349.07	880364.84	EX STM INLET MH
1173	1173	08H3-036D	1077411.30	880473.28	EX DOUBLE INLET
1196	1196	08H3-034D	1077381.42	880364.69	EX STM MH
1385	1385	08H3-051S	1077444.71	880391.06	EX SAN MH
2764	2764		1077444.75	880475.58	EX STM EOP
2841	2841	08H3-049S	1077203.38	880357.95	EX SAN MH
2843	2843	08H3-043D	1077195.90	880361.98	EX STM MH
2879		08H3-050S	1077204.15	880390.09	EX SAN MH
4257	4257	08H3-060S	1077180.25	880520.50	EX SAN MH

NEW STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
	3S		1078473.21	879169.71	MANHOLE
	14S		1077434.86	880403.10	MANHOLE
	15S		1077258.39	880410.31	MANHOLE
	16S		1077228.15	880390.19	MANHOLE

NOTES:
1. IN THE CASE OF CLOSURE OF ROAD OWNED BY THE CITY OF FLORISSANT, CONTRACTOR SHALL SUBMIT A COPY OF THE TRAFFIC PLAN FOR THE CLOSURES TO THE CITY ENGINEER AND EMERGENCY SERVICE.



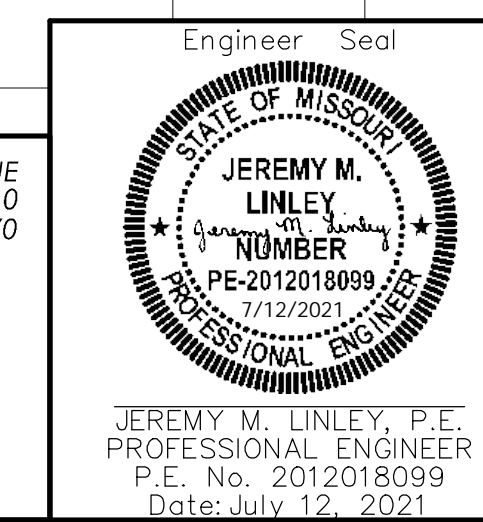
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REV.	DATE	DESCRIPTION	BY

**METROPOLITAN
ST. LOUIS SEWER DISTRICT**

**AMBLEWOOD SANITARY RELIEF
(WATERFORD DR TO BIRCHBARK DR)
12077-015.1
FLORISSANT, MISSOURI**

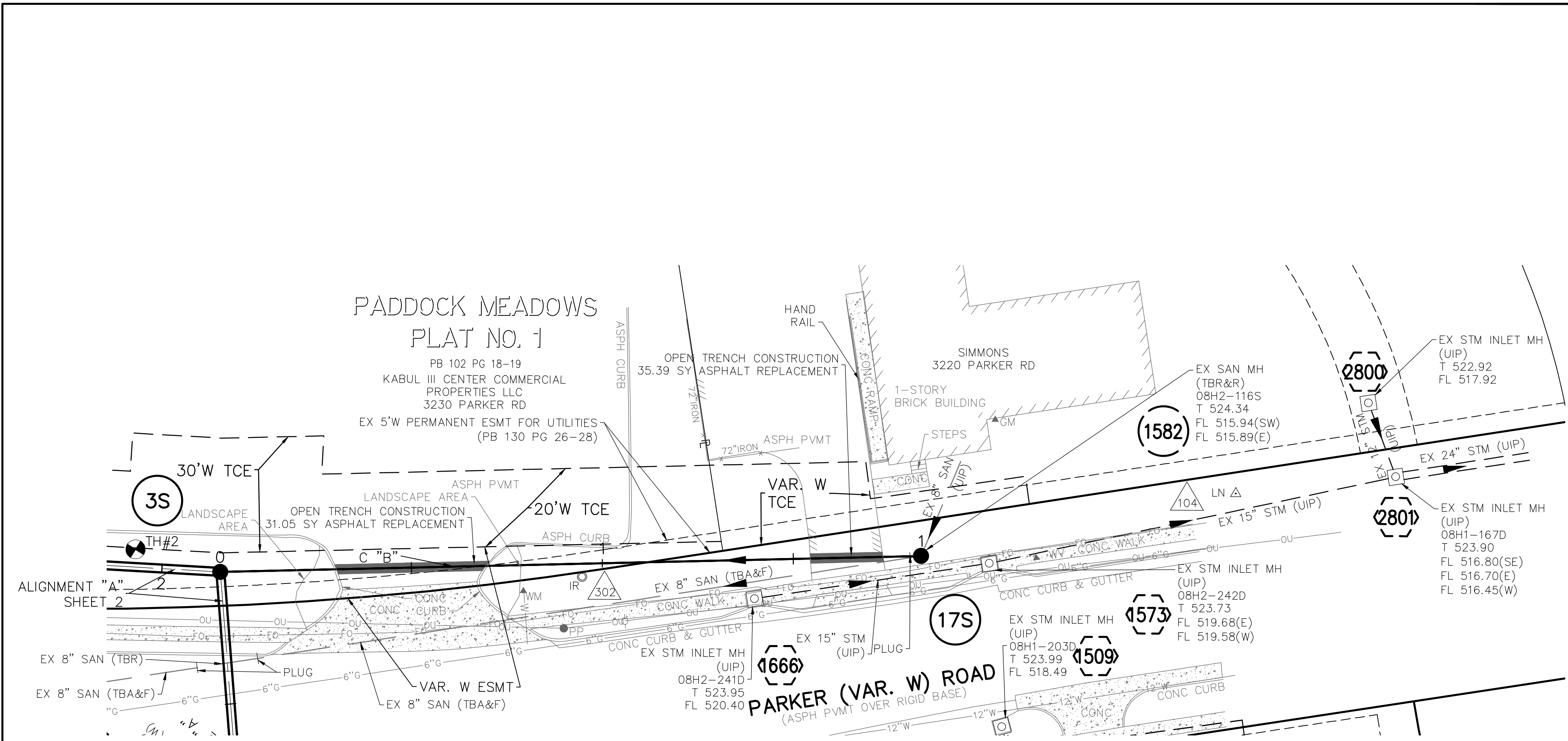
Designed _____ J.X. _____ Date _____ JULY, 2021
Drawn _____ J.X. _____ Sheet No. 7 of 8
Checked _____ J.M.L. _____



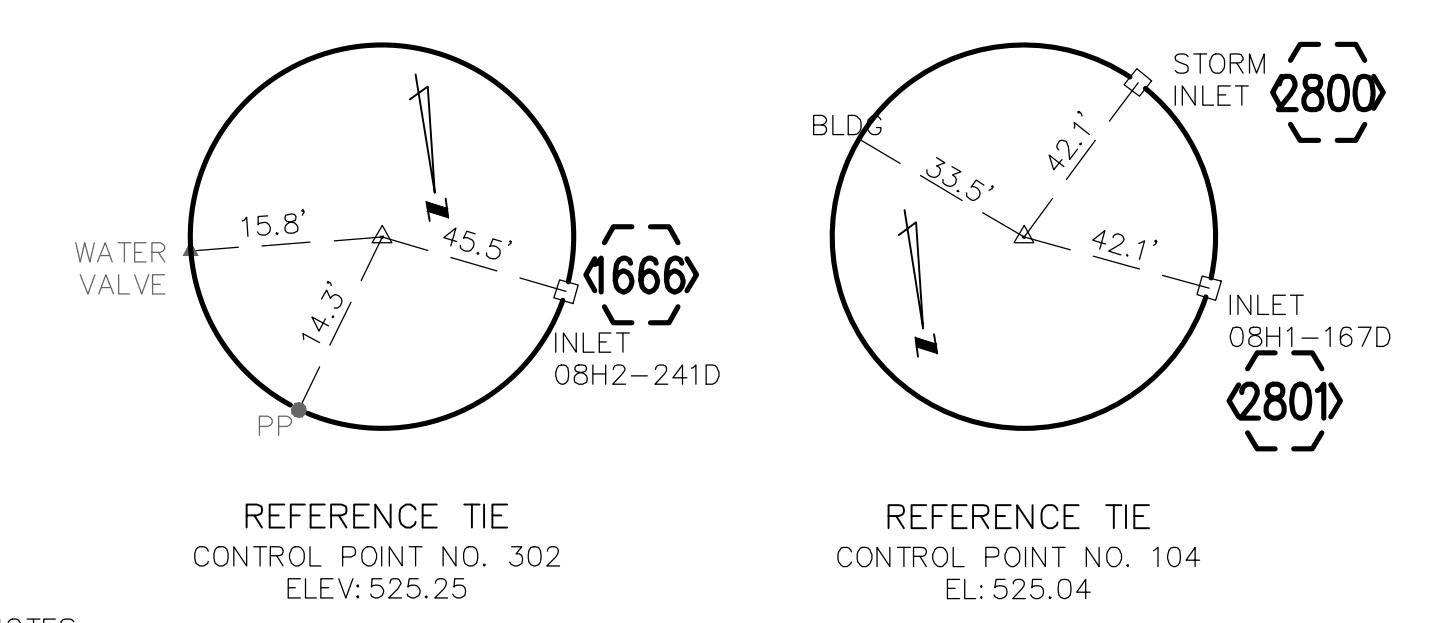
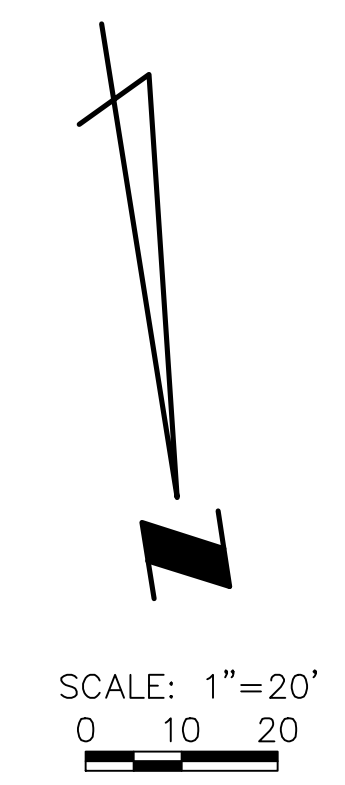
CDI
CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5370

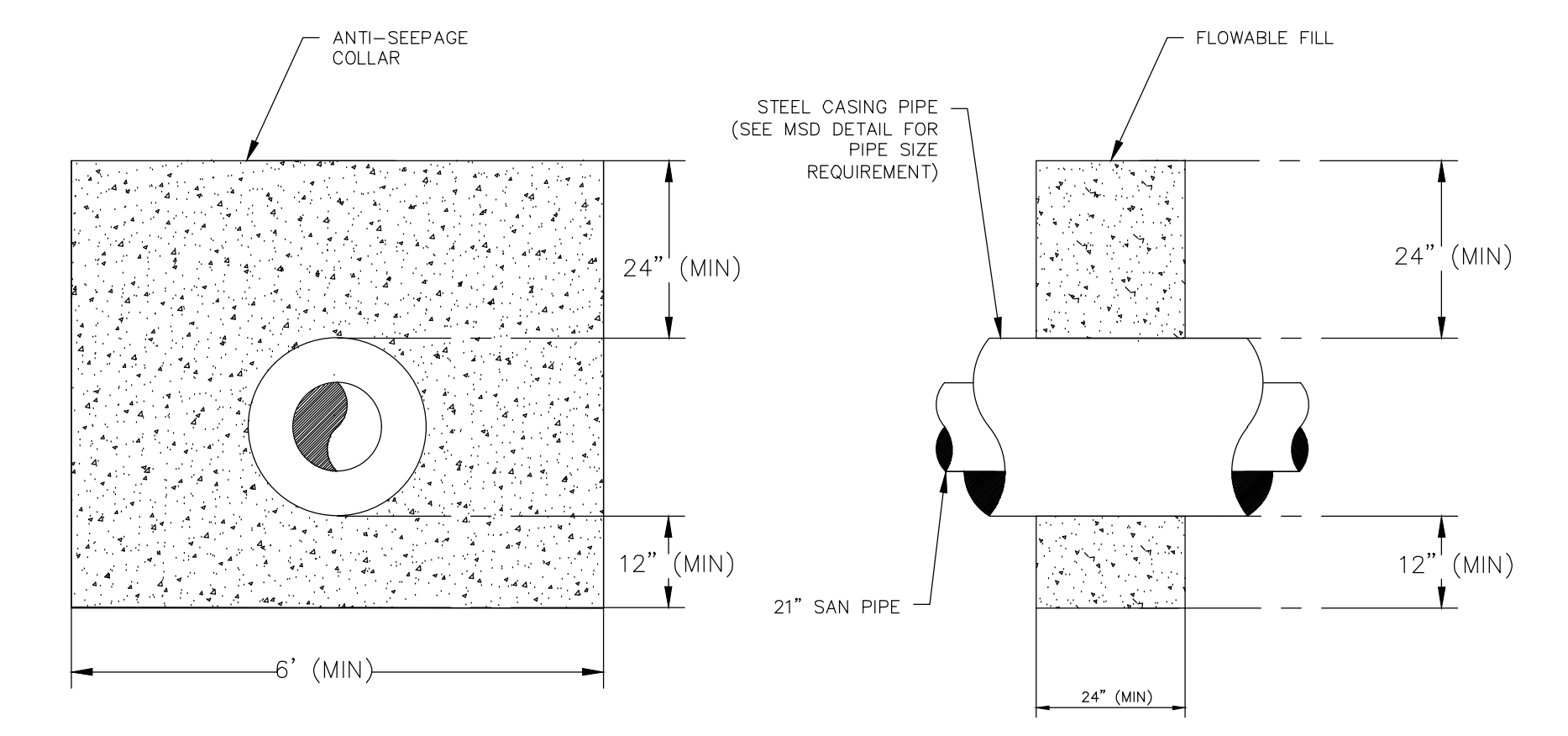
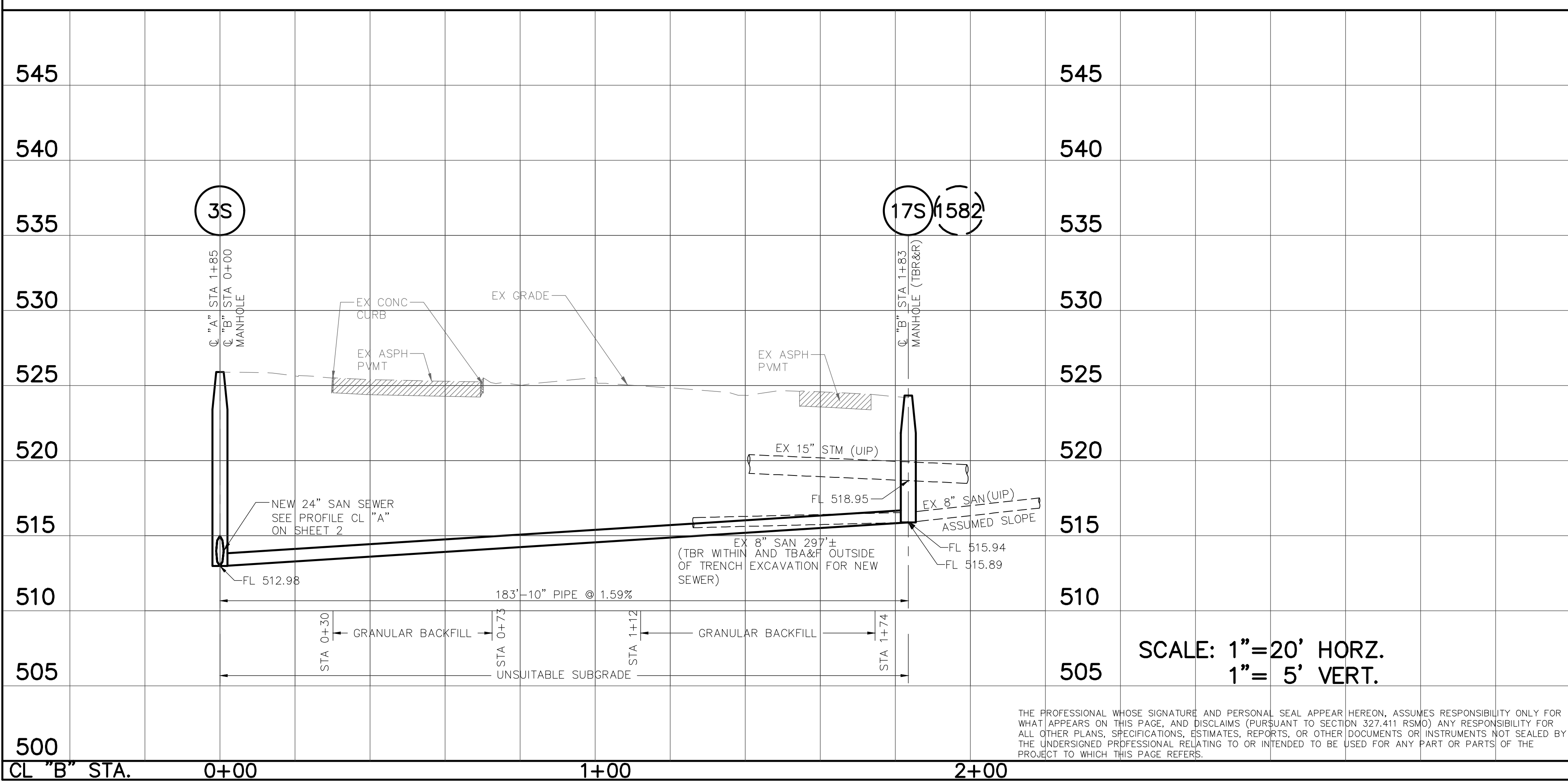
SCALE: 1"=20' HORIZ.
1"= 5' VERT.



POINT TABLE					
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION	
302		1078488.91	879076.30	IRON ROD	
EXISTING STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
1509	1509	08H1-203D	1078544.39	878973.69	EX STM INLET MH
1573	1573	08H2-242D	1078501.62	878970.43	EX STM INLET MH
1582	16S	08H2-116S	1078496.99	878987.79	EX SAN MH
1666	1666	08H2-241D	1078501.40	879032.58	EX STM INLET MH
2800	2800	08H2-241D	1078475.25	878865.94	EX STM INLET MH
2801	2801	08H1-167D	1078495.44	878861.82	EX STM INLET MH
NEW STRUCTURE TABLE					
PT #	ID	MSD ID #	NORTHING	EASTING	DESCRIPTION
	3S		1078473.21	879169.71	MANHOLE
1582	17S	08H2-116S	1078496.99	878987.79	MANHOLE



NOTES:
 1. FOR TUNNELING OPERATION AT MANHOLE 3S, CONTRACTOR SHALL LIMIT THE NUMBER OF PARKING SPACES DISTURBED AT MINIMUM AND MAINTAIN FULL ACCESS TO THE REST OF PARKING SPACES AT 3230 PARKER RD.



DETAIL 2: ANTI-SEEPAGE COLLAR DETAIL
 SCALE: N.T.S.

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

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METROPOLITAN ST. LOUIS SEWER DISTRICT AMBLEWOOD SANITARY RELIEF (WATERFORD DR TO BIRCHBARK DR) 12077-015.1 FLORISSANT, MISSOURI			
Designed	J.X.	Date	JULY, 2021
Drawn	J.X.	Sheet No.	8 of 8
Checked	J.M.L.		