



Bill No. 4161

Ordinance No. _____

INTRODUCED BY

ALDERMEN UTT, FINLEY, STALLMANN, ROACH, FLEMING, LEAHY, SIEGEL, BULLINGTON

AN ORDINANCE AUTHORIZING EXECUTION OF A PERMANENT SIDEWALK EASEMENT AND TWO TEMPORARY SLOPE AND CONSTRUCTION LICENSES IN FAVOR OF ST. LOUIS COUNTY, MISSOURI FOR NEW BALLWIN ROAD ARS RESURFACING.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF BALLWIN, ST. LOUIS COUNTY, MISSOURI, AS FOLLOWS:

Section 1. The Mayor or City Administrator is hereby authorized to execute the Temporary Slope and Construction License in favor of St. Louis County, Missouri in the form attached as Exhibit A hereto.

Section 2. The Mayor or City Administrator is hereby authorized to execute the Permanent Sidewalk Easement and Temporary Slope and Construction License Agreement in favor of St. Louis County, Missouri in the form attached as Exhibit B hereto.

Section 3. This Ordinance shall take effect and be in full force from and after its passage and approval.

PASSED this _____ day of _____, 2023. _____
TIM POGUE, MAYOR

APPROVED this _____ day of _____, 2023. _____
TIM POGUE, MAYOR

ATTEST: _____
ERIC STERMAN, CITY ADMINISTRATOR

New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 47

TEMPORARY SLOPE AND CONSTRUCTION LICENSE

**THIS ACQUISITION IS AUTHORIZED BY ST. LOUIS COUNTY ORDINANCE NO. 28,589, 2022
DATED, October 27, 2022**

THIS INDENTURE made and entered into this _____ day of _____, 2023, between the City of Ballwin, a Missouri municipal corporation, of the County of St. Louis, State of Missouri, Grantor, and **ST. LOUIS COUNTY, MISSOURI**, 41 South Central Avenue, Clayton, Missouri 63105, Grantee.

WITNESSETH, that the said Grantor, in consideration of one dollar (\$1.00), and other valuable considerations, paid by the said Grantee, the receipt of which is hereby acknowledged, does by these presents, grant unto the said Grantee, a license to enter upon and occupy with workmen and equipment for the purpose of making cuts, fills, sloping embankments, constructing drives, sidewalks, temporary roadways and overhead utilities, etc., if any, providing working room and implementing any and all other related construction items, over the following described property, situated in the County of St. Louis, State of Missouri to wit:

TEMPORARY SLOPE AND CONSTRUCTION LICENSE

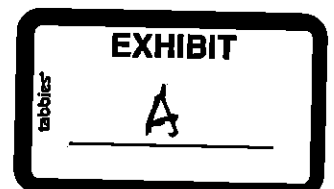
SEE ATTACHMENTS "A-B", Temporary Slope and Construction License - Pages 3-4

TO HAVE AND TO HOLD THE SAME, together with all rights, immunities, privileges, and appurtenances thereto belonging unto the said Grantee, until such time as New Ballwin Road ARS Resurfacing, AR-1747 may be completed and accepted by **ST. LOUIS COUNTY, MISSOURI**, or its assigns. Upon the granting or denial of acceptance by **ST. LOUIS COUNTY** or its assigns, this license shall terminate. Grantor(s) covenant(s) that no installation will be placed on the above described land as will interfere with the proper construction of the aforementioned project until this license is terminated,

IN WITNESS WHEREOF, the said City of Ballwin has caused these presents to be signed by its Mayor this _____ day of _____, 2023.

By: _____

Honorable Tim Pogue
Mayor, City of Ballwin



New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 47

State of Missouri)
) **ss.**
County of St. Louis)

On this _____ day of _____, 2023, before me appeared the Honorable Tim Pogue, to me personally known, who being by me duly sworn, did say he is Mayor of the City of Ballwin, and by authority of its Board of Alderman, said Mayor acknowledged said instrument to be the free act and deed of said Municipality.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my official seal in the County and State aforesaid, the day and year first above written.

Notary Public

My term expires: _____

New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 47

Exhibit "A"

PROJECT NAME: New Ballwin Road
PROJECT NUMBER: AR-1747
PARCEL NUMBER: Parcel 47 TSCL I

TEMPORARY SLOPE CONSTRUCTION LICENSE

A tract of land being part the tract of land described in instrument recorded in Deed Book 7019 Page 1051 of the St. Louis County records, situated in the Southwest Quarter of Section 3, Township 44 North, Range 4 East, in the City of Ballwin, St. Louis County, Missouri, and being more particularly described as follows:

Commencing at the intersection of the South Line of the tract of land described in instrument recorded in Deed Book 7019 Page 1051 as aforementioned, with the West Line of New Ballwin Road, 80.00 feet wide, as established by instrument recorded in Deed Book 1153 Page 190; thence along said West Line, North 0 degrees 27 minutes 48 seconds East, 128.82 feet to the true point of **beginning**; thence departing said West Line, North 89 degrees 32 minutes 12 seconds West, 5.00 feet to a point; thence North 0 degrees 27 minutes 48 seconds East, 8.43 feet to a point on the South Line of the Permanent Traffic Signal Easement described in instrument recorded in Deed Book 9696 Page 2240; thence along said South Line, South 65 degrees 17 minutes 15 seconds East, 5.48 feet to a point on the West Line of New Ballwin Road as aforementioned; thence along said West Line, South 0 degrees 27 minutes 48 seconds West, 6.18 feet to the point of beginning, according to calculations based on right of way plans prepared under St. Louis County Project AR-1747, and containing 36 square feet, more or less.

New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 47

Exhibit "B"

PROJECT NAME: New Ballwin Road
PROJECT NUMBER: AR-1747
PARCEL NUMBER: Parcel 47 TSCL 2

TEMPORARY SLOPE CONSTRUCTION LICENSE

A tract of land being part the tract of land described in instrument recorded in Deed Book 7019 Page 1051 of the St. Louis County records, situated in the Southwest Quarter of Section 3, Township 44 North, Range 4 East, in the City of Ballwin, St. Louis County, Missouri, and being more particularly described as follows:

Commencing at the intersection of the South Line of the tract of land described in instrument recorded in Deed Book 7019 Page 1051 as aforementioned, with the West Line of New Ballwin Road, 80.00 feet wide, as established by instrument recorded in Deed Book 1153 Page 190; thence along said West Line, North 0 degrees 27 minutes 48 seconds East, 234.78 feet to a point on the North Line of the Permanent Traffic Signal Easement described in instrument recorded in Deed Book 9696 Page 2240, said point being the true point of **beginning**; thence along said North Line, South 66 degrees 47 minutes 15 seconds West, 5.46 feet to a point; thence departing said North Line, North 0 degrees 27 minutes 48 seconds East, 10.45 feet to a point; thence South 89 degrees 32 minutes 12 seconds East, 5.00 feet to a point on the West Line of New Ballwin Road as aforementioned; thence along said West Line, South 0 degrees 27 minutes 48 seconds West, 8.26 feet to the point of beginning, according to calculations based on right of way plans prepared under St. Louis County Project AR-1747, and containing 47 square feet, more or less.

New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 25

PERMANENT SIDEWALK EASEMENT

**THIS ACQUISITION IS AUTHORIZED BY ST. LOUIS COUNTY ORDINANCE NO. 28,589, 2022,
DATED, October 27, 2022.**

THIS INDENTURE made and entered into this _____ day of _____, 2023,
between the City of Ballwin, a Missouri municipal corporation, of the County of St. Louis, State of Missouri,
Grantor, and ST. LOUIS COUNTY, MISSOURI, 41 South Central, Clayton, Missouri 63105, Grantee.

WITNESSETH, that the said Grantor, for and in consideration of the sum of one dollar (\$1.00), and
other valuable considerations, paid by the said Grantee, the receipt of which is hereby acknowledged, does by
these presents, grant unto the said Grantee, a permanent sidewalk easement for the purpose of constructing,
repairing and maintaining sidewalks in and upon the following described property to wit:

PERMANENT SIDEWALK EASEMENT

SEE ATTACHMENT "EXHIBIT A", Permanent Sidewalk Easement Description, Page 3

Together with the following grant by the Grantor to the Grantee.

A Temporary Slope and Construction License for the purpose of making cuts, fills, and sloping embankments,
constructing drives, sidewalks, temporary roadways and overhead utilities, etc., if any, providing working room
and implementing any and all other construction items over the following described property, to wit:

**SEE ATTACHEMENT "EXHIBIT B", TEMPORARY SLOPE AND CONSTRUCTION LICENSE
DESCRIPTION, Page 4**

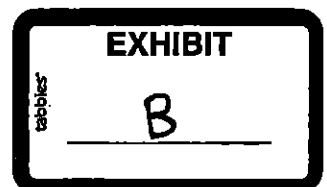
The last described license is for temporary purposes only and shall therefore terminate upon completion
of the contemplated improvement of New Ballwin Road ARS Resurfacing, AR-1747 by the Grantee.

TO HAVE AND TO HOLD said easement unto ST. LOUIS COUNTY, MISSOURI, and to its assigns
and successors forever.

IN WITNESS WHEREOF, the said City of Ballwin ahs caused these presents to be signed by its Mayor
this _____ day of _____, 2023.

CITY OF BALLWIN

By: _____
Honorable Tim Pogue, Mayor



New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 25

State of Missouri)
) ss.
County of St. Louis)

On this _____ day of _____, 2023, before me appeared the Honorable Tim Pogue, to me personally known, who being by me duly sworn, did say he is Mayor of the City of Ballwin, and by authority of its Board of Alderman, said Mayor acknowledged said instrument to be the free act and deed of said Municipality.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my official seal in the County and State aforesaid, the day and year first above written.

Notary Public

My term expires: _____

New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 25

Exhibit "A"

PROJECT NAME: New Ballwin Road
PROJECT NUMBER: AR-1747
PARCEL NUMBER: Parcel 25 PSE

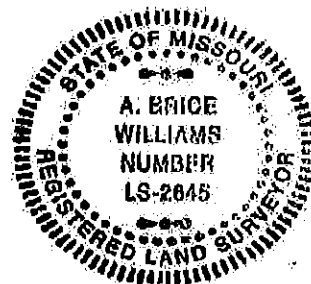
PERMANENT SIDEWALK EASEMENT

A tract of land being part of the tract of land described in instrument recorded in Deed Book 19682 Page 1542 (Parcel 1) of the St. Louis County records, situated in Section 10, Township 44 North, Range 4 East, in the City of Ballwin, St. Louis County, Missouri, and being more particularly described as follows:

Commencing at the intersection of the South Line of the tract of land described in instrument recorded in Deed Book 19682 Page 1542 (Parcel 1) as aforementioned, with the East Line of New Ballwin Road, 80.00 feet wide, as established by instrument recorded in Deed Book 1153 Page 190; thence along said East Line, North 0 degrees 01 minutes 49 seconds West, 58.69 feet to the true point of beginning; thence continuing along said East Line, North 0 degrees 01 minutes 49 seconds West, 12.00 feet to a point; thence departing said East Line, North 89 degrees 58 minutes 11 seconds East, 8.00 feet to a point; thence South 0 degrees 01 minutes 49 seconds East, 12.00 feet to a point; thence South 89 degrees 58 minutes 11 seconds West, 8.00 feet to the point of beginning, according to calculations based on right of way plans prepared under St. Louis County Project AR-1747, and containing 96 square feet, more or less.

This property description does not constitute a property boundary survey, but has been written based on a property boundary survey prepared by the St. Louis County Department of Transportation.

A. Brice Williams *Sept. 13, 2022*
By: Andrew Brice Williams Missouri PLS-002645
St. Louis County Department of Transportation
1050 N. Lindbergh, St. Louis, MO 63132
(314) 615-1175



New Ballwin Road ARS Resurfacing
St. Louis County Project: AR-1747
Federal Project No. STP-5494 (602)
Parcel No. 25

Exhibit "B"

PROJECT NAME: New Ballwin Road
PROJECT NUMBER: AR-1747
PARCEL NUMBER: Parcel 25 TSCL

TEMPORARY SLOPE CONSTRUCTION LICENSE

A tract of land being part of the tract of land described in instrument recorded in Deed Book 19682 Page 1542 (Parcel 1) of the St. Louis County records, situated in Section 10, Township 44 North, Range 4 East, in the City of Ballwin, St. Louis County, Missouri, and being more particularly described as follows:

Commencing at the intersection of the South Line of the tract of land described in instrument recorded in Deed Book 19682 Page 1542 (Parcel 1) as aforementioned, with the East Line of New Ballwin Road, 80.00 feet wide, as established by instrument recorded in Deed Book 1153 Page 190; thence along said East Line, North 0 degrees 01 minutes 49 seconds West, 70.69 feet to the true point of **beginning**; thence continuing along said East Line, North 0 degrees 01 minutes 49 seconds West, 40.00 feet to a point; thence departing said East Line, North 89 degrees 58 minutes 11 seconds East, 20.00 feet to a point; thence South 0 degrees 01 minutes 49 seconds East, 40.00 feet to a point; thence South 89 degrees 58 minutes 11 seconds West, 20.00 feet to the point of **beginning**, according to calculations based on right of way plans prepared under St. Louis County Project AR-1747, and containing 800 square feet, more or less.

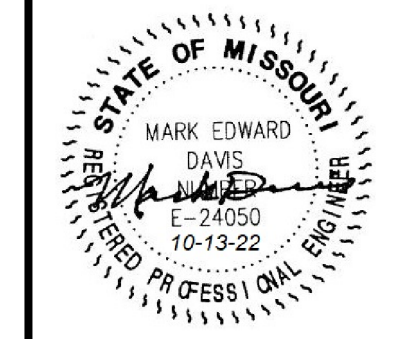
RIGHT-OF-WAY PLANS FOR NEW BALLWIN ROAD ST. LOUIS COUNTY PROJECT NO. AR-1747 FEDERAL PROJECT NO. STP-5494(602)



COUNTY PROJECT NO.
AR-1747
FEDERAL PROJECT NO.
STP-5494(602)
E-W GATEWAY TIP NO.
6905H-22
MSD:
22MSD-00020
MSD BASE MAP:
24S

REV	DATE	BY	APP	DESCRIPTION

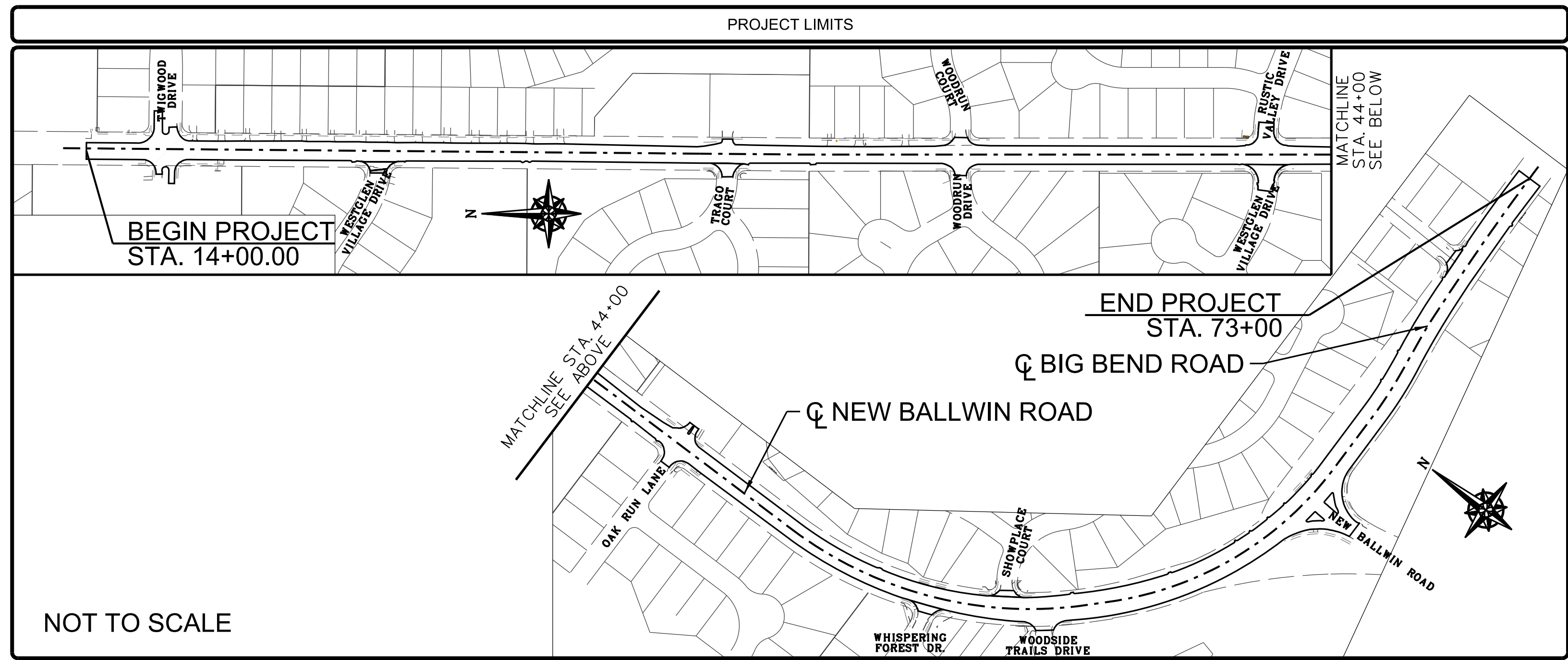
CONTRACTOR'S RESPONSIBILITY
I hereby specify that the documents intended to be used in this project are limited to the project and I hereby disclaim any responsibility for all other documents or instruments relating to or intended to be used in any other engineering project or survey.



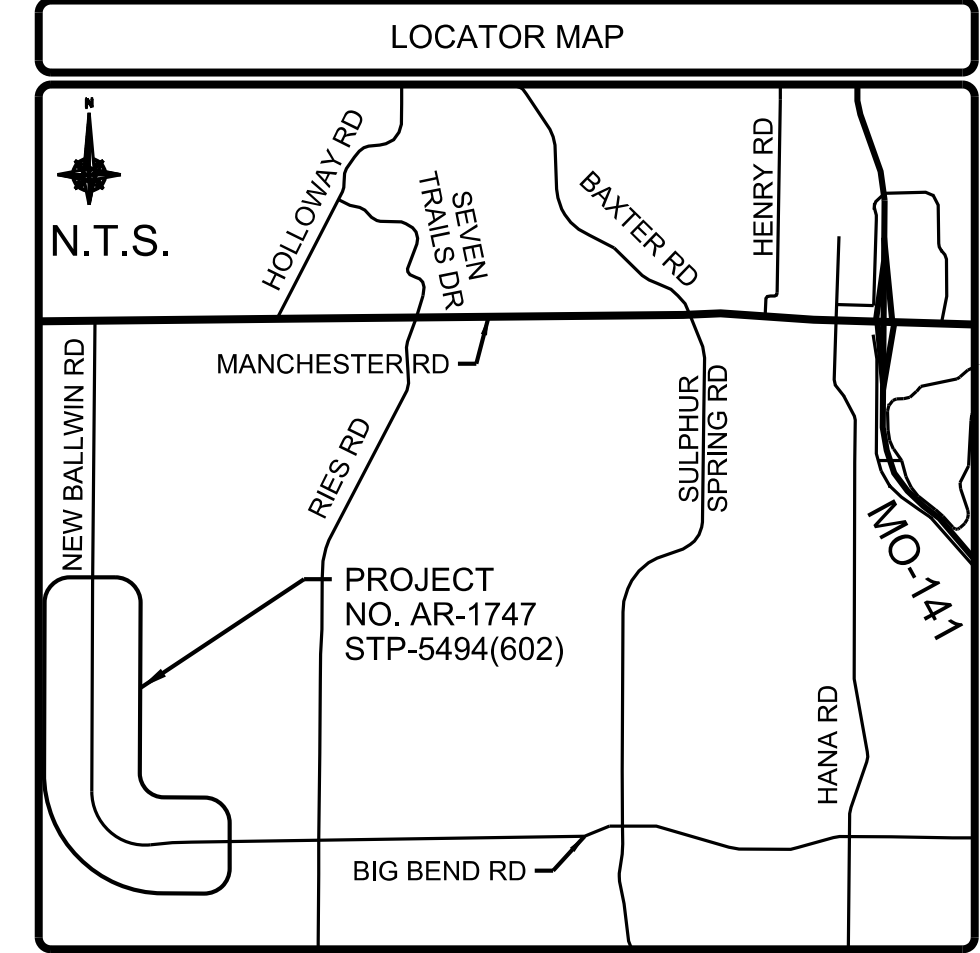
DATE: 10/13/2022

DAVID MASON
Professional Engineer
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030
MISSOURI CERTIFICATE OF AUTHORITY: 001103

DESCRIPTION	SYMBOL
RIGHT-OF-WAY NEW	---
RIGHT-OF-WAY EXISTING	- - -
PROPERTY LINE	---
UNDERGROUND UTILITY (TYPE SPECIFIED)	---
T-TELEPHONE/CATV G-GAS	---
W-WATER E-ELECTRIC	---
CONSTRUCTION LIMITS	---
TREE OR SHRUB (DESIGNATE DIA. & TYPE)	---
TREE/VEGETATION LINE	---
FENCE (DESIGNATE TYPE)	---
GUARDRAIL	---
RAILROAD	---
SIGN	---
PERMANENT DRAINAGE EASEMENT	P.D.E.
PERMANENT SIDEWALK EASEMENT	P.S.E.
TEMPORARY SLOPE AND CONSTRUCTION LICENSE	T.S.C.L.
PERMANENT TRAFFIC SIGNAL EASEMENT	P.T.S.E.
PERMANENT FOOTING EASEMENT	P.F.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY EASEMENT	P.R.I.M.U.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY SIDEWALK AND SEWER EASEMENT	P.R.I.M.U.S.S.E.
PERMANENT RETAINING WALL EASEMENT	P.R.W.E.
TO BE REMOVED	(T,B,R)
TO BE ABANDONED	(T,B,A)
USE IN PLACE	(U,I,P)
TO BE REMOVED AND REPLACED	(T,B,R&R)
TO BE REMOVED AND REPLACED BY OTHERS	(T,B,R&R,B,O)
ADJUST TO GRADE	(A,T,G)
ADJUST TO GRADE BY OTHERS	(A,T,G,B,O)
TO BE ABANDONED AND FILLED	(T,B,A&F)



SHEET NO.	DESCRIPTION
1	TITLE AND INDEX SHEET
2	TYPICAL SECTIONS
3-14	AR-1747 NEW BALLWIN ROAD RIGHT OF WAY PLANS



PROJECT SPECIFIC INFORMATION
Project Benchmark: (Add 0.20 feet to project elevations to relate project to NGVD29.)
St. Louis County Benchmark: 17203NAVDB8(SLC2011a) Elev = 531.82FtUS (or) 162.098 Meter
Cut "U" on the concrete base for a traffic signal mast in the traffic island situated north of Big Bend Road, west of Ries Road, and southeast of the right turn lane from southbound Ries Road onto westbound Big Bend Road; roughly 39 feet north of Big Bend Road and 44 feet west of Ries Road, SP MO East N=3034534Meter - Estimated Rough NAD83 Lat=38.567775°(N*) Long=90.543856°(W*)
12189NAVDB8(SLC2011a) Elev = 590.27FtUS (or) 179.916 Meter
"L" on the south headwall of the concrete box culvert for Fishpot Creek at Manchester Road, SP MO East N=306223a E=245118a Meter - Estimated Rough NAD83 Lat=38.592725°(N*) Long=90.556041°(W*)
STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE: Project Disturbance = 0.29 ACRES Project Additional Impervious Area = 0.04 ACRES Project Runoff Differential = 0.07 CFS
Any future land disturbance and/or increase in impervious area on this site may require additional stormwater management per MSD regulations in place at that time (including total land disturbance and/or imperviousness added on this plan.)
Prior to obtaining a construction permit from the Metropolitan St. Louis Sewer District, the contractor shall be required to provide the district with a copy of an executed certificate of insurance indicating that the permittee has obtained and will continue to carry commercial general liability and comprehensive auto liability insurance. The requirements and the limits shall be as stated in the "Rules and Regulations and Engineering Design Requirements for Sanitary and Stormwater Drainage Facility", Section 10.090 (addendum).

DESIGN CRITERIA
NEW BALLWIN ROAD
FUNCTIONAL CLASSIFICATION: COLLECTOR
DESIGN YEAR: 2028
CURRENT ADT (YEAR): 9,950 (2018)
DESIGN ADT (YEAR): 10,450 (2028)
DIRECTIONAL DISTRIBUTION (D) = 50%
TRUCK PERCENTAGE (T) = 10%
DESIGN SPEED (V) = 35 MPH
POSTED SPEED (V) = 30 MPH

LENGTH OF PROJECT
NEW BALLWIN ROAD
END OF PROJECT STA. 73+00.00
BEGINNING OF PROJECT STA. 14+00.00
APPARENT LENGTH 5,900.00 FEET
EQUATIONS AND EXCEPTIONS 0.00 FEET
TOTAL CORRECTIONS 0.00 FEET
NET LENGTH OF PROJECT 5,900.00 FEET
STATE LENGTH 1.117 MILES
FEDERAL LENGTH 1.117 MILES

MSD CERTIFICATION
THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. SINCE THE WYE LOCATIONS HAVE BEEN PLOTTED FROM INFORMATION PROVIDED BY THE SEWER CONTRACTOR OR OTHER SOURCES, I DISCLAIM ANY RESPONSIBILITY FOR THAT SPECIFIC INFORMATION.
ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:
SIGNED P.E. _____
DATE _____
IT SHOULD BE UNDERSTOOD THAT THIS SIGNATURE AND SEAL APPLY ONLY TO THE AFOREMENTIONED FINAL MEASUREMENTS

MSD STANDARD NOTES
CONTRACTOR'S INSURANCE (OFFSITE): Prior to obtaining a construction permit from the Metropolitan St. Louis Sewer District, the contractor shall be required to provide the District with a copy of an executed Certificate of Insurance indicating that the permittee has obtained and will continue to carry commercial general liability and comprehensive auto liability insurance. The requirement and limits shall be stated in the "Rules and Regulations and Engineering Design Requirements for Sanitary and Stormwater Drainage Facilities, Section 10.090 (ADDENDUM).
DETAIL DRAWINGS: The detail drawings shown here are only for private construction that is NOT under MSD permits. Refer to MSD specifications and standard details for public sewer construction or private construction under MSD permits.
LIMITS OF DISTURBANCE: The contractor shall stay within the limits of disturbance as shown on the plans and minimize disturbance within the work area wherever possible.
PREVAILING WAGE NOTE: Notice to Contractor: This projects includes construction of Green Infrastructure or relocation, alteration, or reconstruction of existing MSD facilities. In accordance with the MSD Green Infrastructure Program and MSD Resolution 3263, the District requires the wage rate to be at least equal to the Missouri Prevailing Wage Rate at the time of construction start. An affidavit certifying that the Missouri Prevailing Wage Rate at the time of construction start has been paid for all work related to Green Infrastructure or relocation, alteration, or reconstruction of existing facilities is required prior to MSD Construction Approval of this project.
SHOP DRAWINGS: The project engineer shall provide shop drawings signed and sealed by a Professional Engineer licensed in Missouri for approval to MSD prior to construction of these structures. Structures shall be designed to sustain HS-20 loads. Please contact the District's Construction Management Division at (314) 355-2072 for questions.

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
ST. LOUIS COUNTY, MISSOURI
DEPARTMENT OF TRANSPORTATION/PUBLIC WORKS
DESIGN DIVISION
1050 N. LINDBERGH BLVD
ST. LOUIS, MISSOURI 63132

STANDARD SPECIFICATIONS
UNLESS OTHERWISE NOTED, ALL WORK ON THIS PROJECT SHALL BE COVERED BY THE ST. LOUIS COUNTY STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND BY APPLICABLE ST. LOUIS COUNTY STANDARD DRAWINGS.

UTILITY NOTE
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID THERETO.

M.S.D. P-NUMBER: 22MSD-00020
M.S.D. BASE MAP: 24S
REVIEW ENGINEER: ROBERT MILLER
APPROVAL DATE: _____

APPROVED: *Stephanie Leon Streeter* P.E.
Stephanie Leon Streeter, P.E.
Acting Director
DATE: December 20, 2022

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
Stephanie Leon Streeter, P.E.
Acting Director

NEW BALLWIN ROAD ARS RESURFACING
TITLE AND INDEX SHEET

DESIGNED: M.E.D.
DRAWN: N.P.B.
CHECKED: M.E.D.
SHEET SEQUENCE: 1 OF 14

MSD CONSTRUCTION NOTES:

All storm and sanitary sewer structures and appurtenances to be dedicated to MSD, or to be Private Under MSD Inspection, shall conform to the Metropolitan St. Louis Sewer District, Standard Construction Specifications for Sewers and Drainage Facilities, 2009. That will include Standard Details shown therein, and shall include all subsequent changes made thereto.

Some recent changes concern Plastic Pipe Materials and Pipe Field Testing and performance, and include the following:

PART 2 - MATERIALS OF CONSTRUCTION

High Density Polyethylene (HDPE) pipe is not allowed for gravity sewers for storm, combined, or sanitary sewers that are "public" or "private under MSD inspection".

Polypropylene (PP) pipe is allowed as follows for gravity sewers that are "public" or "private under MSD inspection"

For use in sanitary and combined sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer Applications."

For use in storm sewers 12 to 24 inches in diameter it shall conform to the requirements of ASTM F2881 "Standard Specification for 12 to 60 in. Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications;" or

For use in storm sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer Applications."

PART 4 - PIPE SEWER CONSTRUCTION
Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing - delete the first sentence and the following replacement applies:

All sanitary and combined sewers shall sustain a maximum leakage limit of 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing, Subparagraph c, Infiltration/Exfiltration Testing - delete the sixth sentence, concerning leakage limits, and the following replacement applies:

The measurement of leakage shall not exceed 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

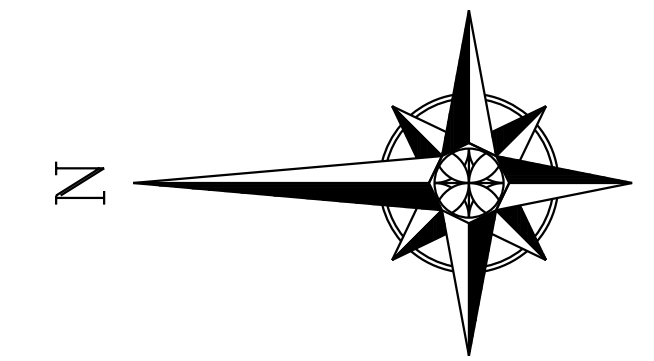
Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph a, Vacuum Testing - after the first sentence, the following addition applies:

The vacuum test must be performed prior to backfilling around the manhole unless the contractor provides documentation from the precast manhole manufacturer stating that the manhole may be vacuum tested after backfilling has taken place. The contractor must submit this documentation prior to backfilling around any manhole.
Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph b, Exfiltration Testing - delete the second sentence, concerning leakage limits, and the following addition applies:

For exfiltration testing, the allowable leakage limit is 100 gallons/inch of pipe diameter/mile of line/day when the average head on the test section is three feet (3') or less.

If Reinforced Concrete Pipe is used for sanitary or combined sewers larger than 27", all pipe AND joints shall conform to ASTM C 361. In addition, if the diameter is larger than 48", the joint type must include a gasket that is confined in a groove in the spigot of the pipe.

All culverts shown on plans are private and are not maintained by MSD unless specified differently.



COUNTY PROJECT NO.	AR-1747		
FEDERAL PROJECT NO.	STP-5494(602)		
E-W GATEWAY TIP NO.	6905H-22		
MSD:	22MSD-00020		
MSD BASE MAP:	24S		
REVISIONS			
REV. DATE	BY	APP.	DESCRIPTION

CONTRACTOR'S RESPONSIBILITY
I hereby specify that the documents intended to be used in this project are those of the engineer and I hereby disclaim any responsibility for all other documents or instruments relating to or intended to be used in this project or survey.



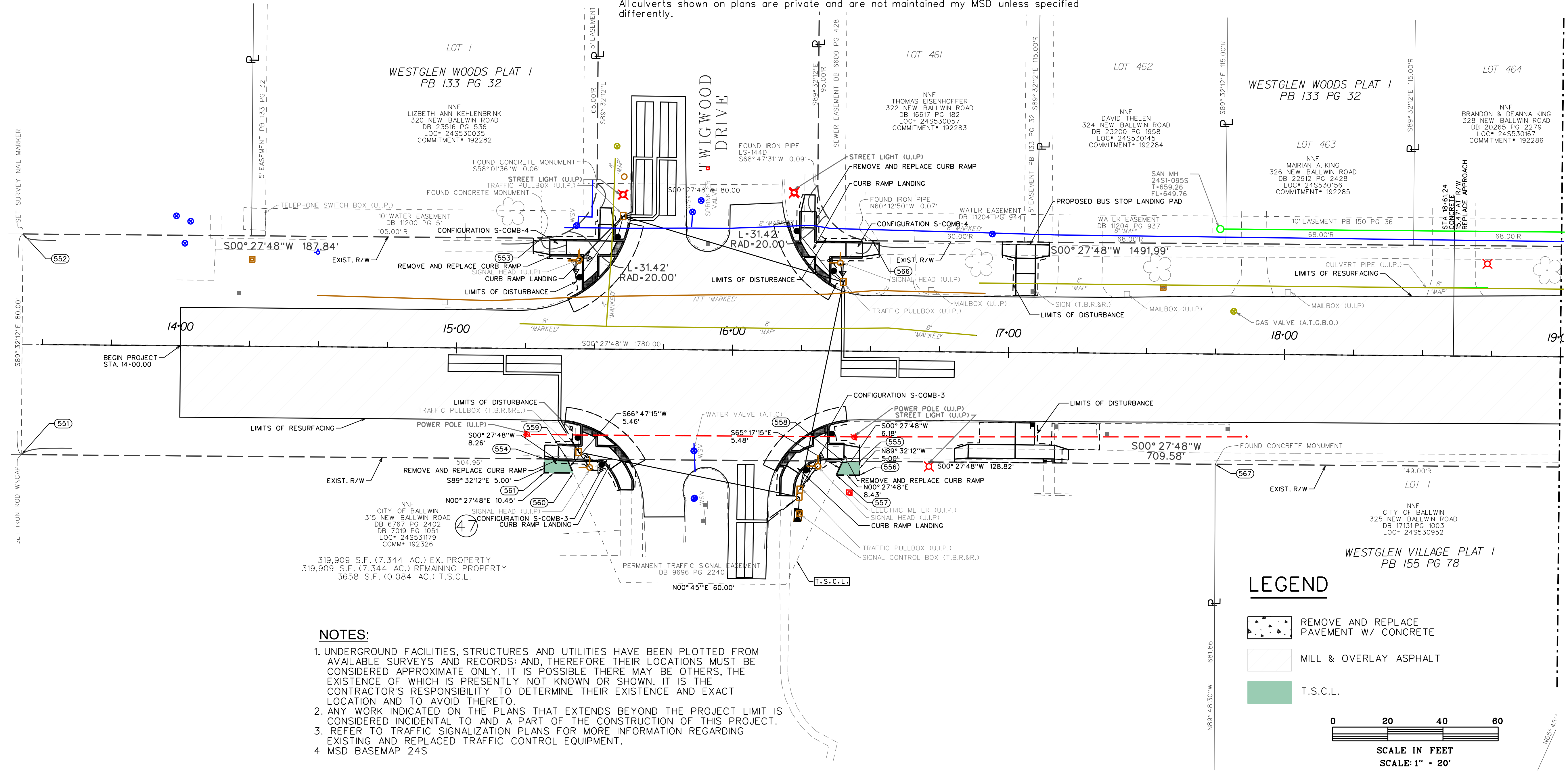
DATE: 1/9/2023

DAVID MASON
Professional Engineer
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030
MISSOURI CERTIFICATE OF AUTHORITY: 001103

Saint Louis County TRANSPORTATION PUBLIC WORKS
Stephanie Leon Streebter, P.E.
Acting Director

NEW BALLWIN ROAD ARS RESURFACING
RIGHT OF WAY PLAN SHEET
SHEET 1 OF 12

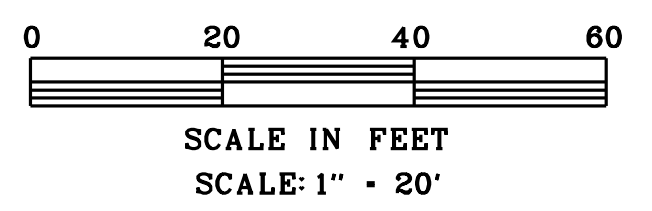
DESIGNED: M.E.D.
DRAWN: N.P.B.
CHECKED: M.E.D.
SHEET SEQUENCE: 3 OF 14

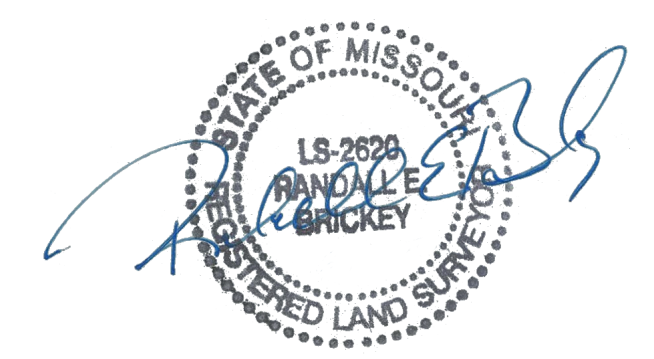
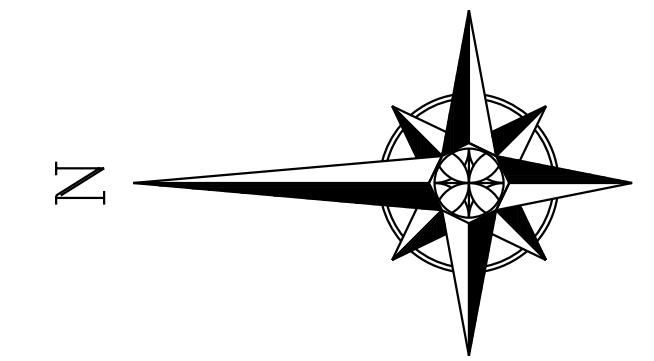


- NOTES:**
1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID THERETO.
 2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMIT IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
 3. REFER TO TRAFFIC SIGNALIZATION PLANS FOR MORE INFORMATION REGARDING EXISTING AND REPLACED TRAFFIC CONTROL EQUIPMENT.
 4. MSD BASEMAP 24S

LEGEND

- REMOVE AND REPLACE PAVEMENT W/ CONCRETE
- MILL & OVERLAY ASPHALT
- T.S.C.L.





COUNTY PROJECT NO.	AR-1747	
FEDERAL PROJECT NO.	STP-5494(602)	
E-W GATEWAY TIP NO.	6905H-22	
MSD:	22MSD-00020	
MSD BASE MAP:	24S	
REVISIONS		
REV. DATE	BY	APP. DESCRIPTION

I hereby certify that the documents intended to be issued by my seal are the work of me or under my direct supervision and I hereby disclaim any responsibility for all other documents or instruments relating to or intended to be engineering project or survey.



DATE: 10/13/2022

DAVID MASON
 800 S. VANDEVENTER AVE.
 ST. LOUIS, MISSOURI 63110
 PHONE (614) 354-1030
 MISSOURI CERTIFICATE OF AUTHORITY 001103

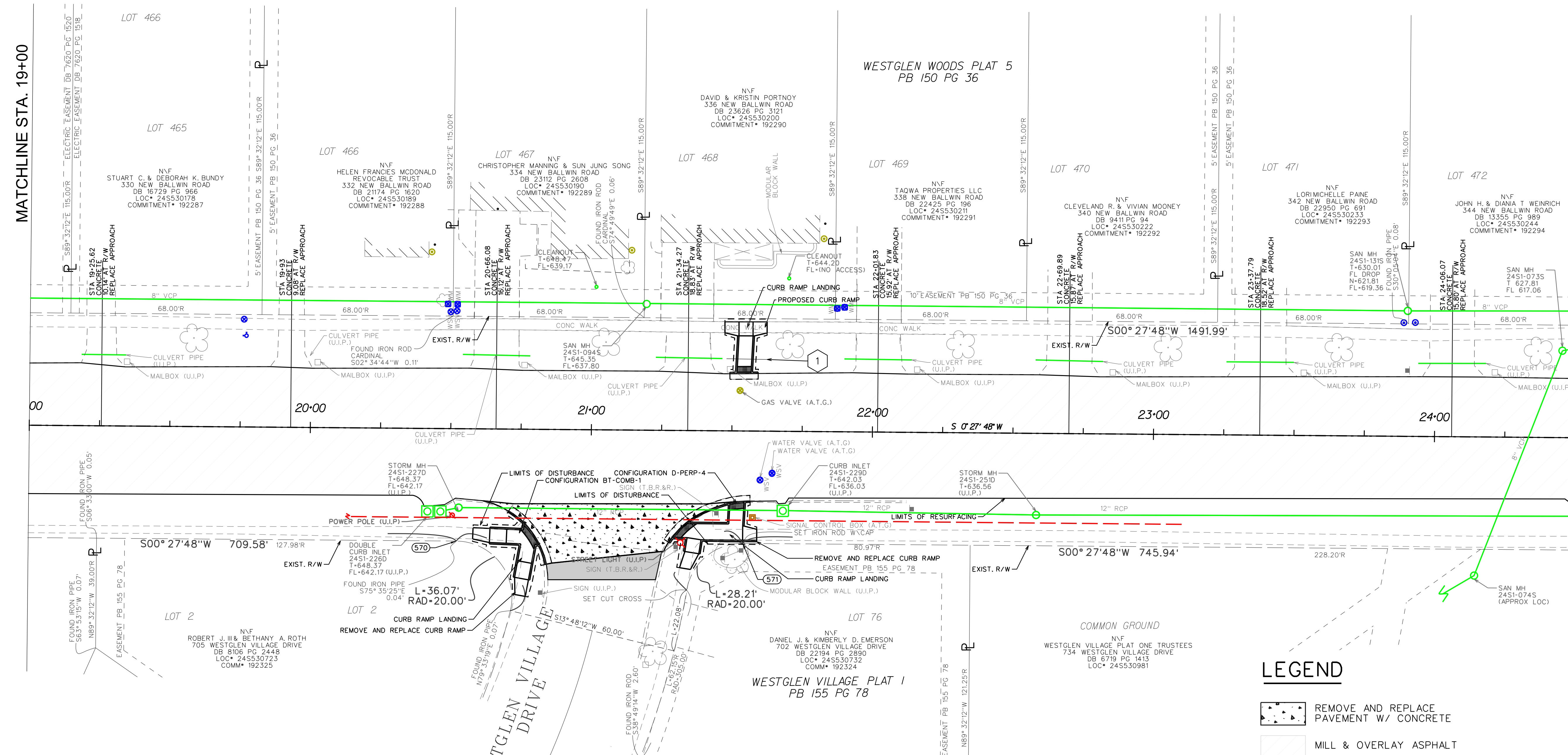
St. Louis County
TRANSPORTATION
PUBLIC WORKS
 Stephanie Leon Streeter, P.E.
 Acting Director

NEW BALLWIN ROAD
 ARS RESURFACING
 RIGHT OF WAY
 PLAN SHEET
 SHEET 2 OF 12

DESIGNED:	M.E.D.
DRAWN:	N.P.B.
CHECKED:	M.E.D.
SHEET SEQUENCE:	4 OF 14

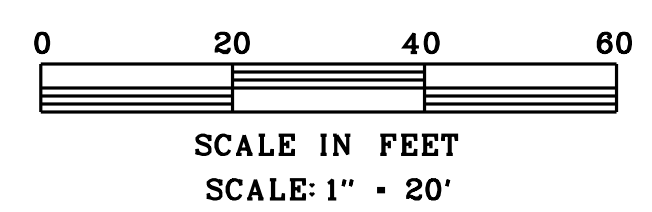
MATCHLINE STA. 19+00

MATCHLINE STA. 24+50



LEGEND

- REMOVE AND REPLACE PAVEMENT W/ CONCRETE
- MILL & OVERLAY ASPHALT
- REMOVE AND REPLACE PAVEMENT W/ ASPHALT (MATCH EXISTING)



NOTES:

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- MSD BASEMAP 24S

KEYED NOTES:

- SAWCUT AND REMOVE SUFFICIENT EXISTING CONCRETE SWALE TO REPLACE WITH CULVERT PIPE MATCHING EXISTING. INSTALL NEW CULVERT EXTENSION TO 5'-0" SOUTH OF PROPOSED RAMP AND JOIN TO EXISTING CULVERT WITH APPROVED FITTINGS. TRANSITION END OF NEW CULVERT EXTENSION TO EXISTING CONCRETE CHANNEL SIMILAR TO EXISTING TRANSITION.

COUNTY PROJECT NO.
AR-1747
FEDERAL PROJECT NO.
STP-5494(002)
E-W GATEWAY TIP NO.
6905H-22
MSD:
22MSD-00020
MSD BASE MAP:
24S

REV	DATE	BY	APP	DESCRIPTION

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DATE: 10/13/2022

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TRANSPORTATION
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030
MISSOURI CERTIFICATE OF AUTHORITY
001103

Saint Louis County
TRANSPORTATION
PUBLIC WORKS
Stephanie Leon Streeter, P.E.
Acting Director

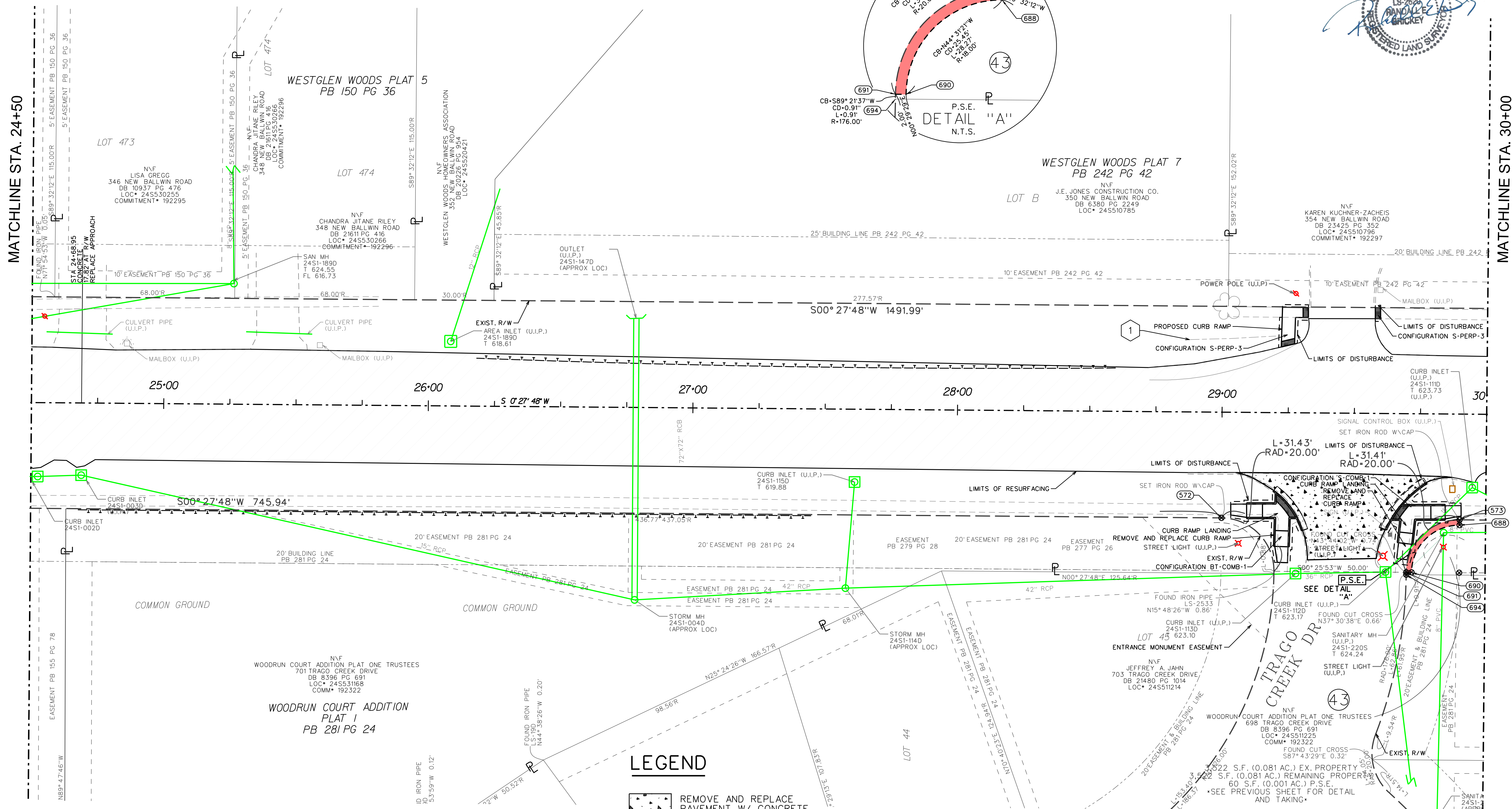
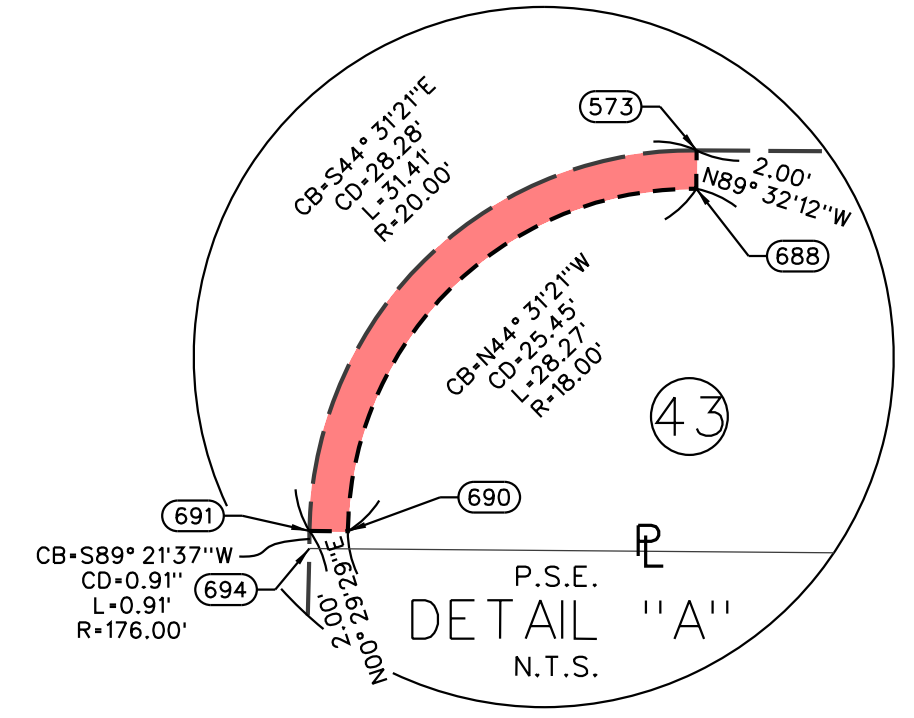
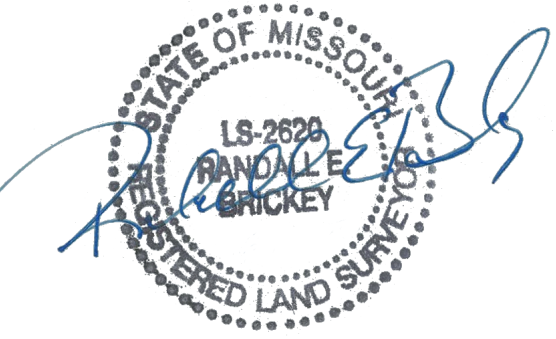
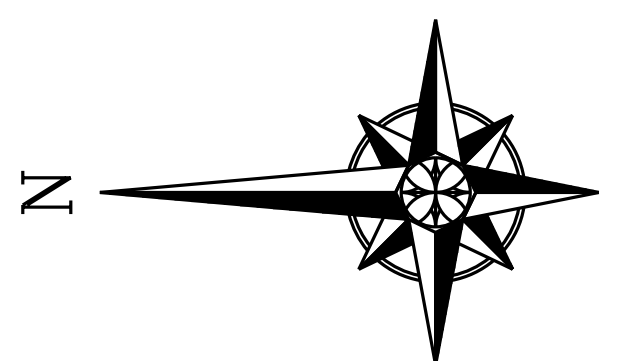
NEW BALLWIN ROAD
ARS RESURFACING
RIGHT OF WAY
PLAN SHEET
SHEET 3 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

CHECKED: M.E.D.

SHEET SEQUENCE:
5 OF 14

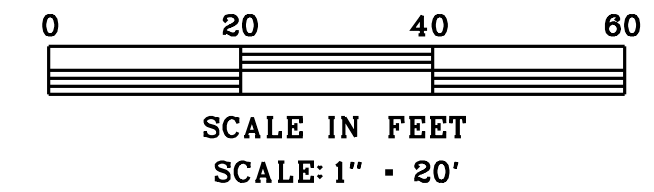


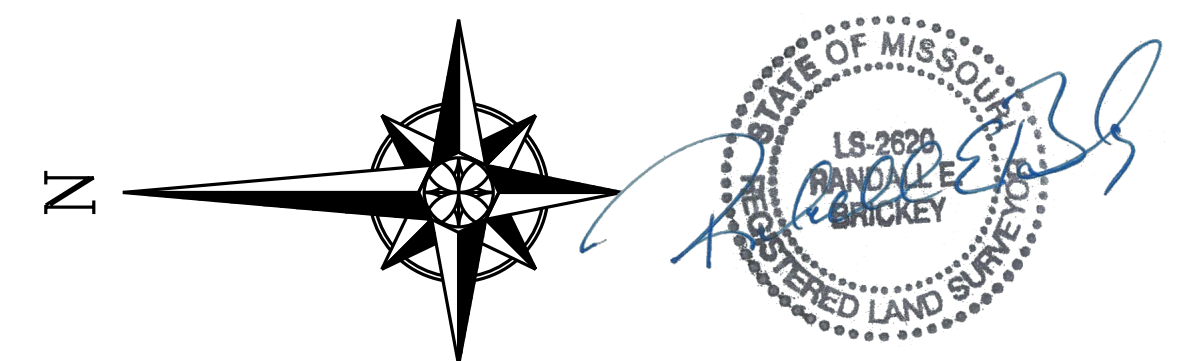
NOTES:

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- MSD BASEMAP 24S

KEYED NOTES:

- EXCAVATE AND REMOVE EXISTING RCP FLARED END SECTION. EXTEND EXISTING RCP WITH NEW RCP AND REUSE EXISTING FLARED END SECTION IF POSSIBLE. EXTEND NEW RCP SUFFICIENT DISTANCE TO NORTH TO ALLOW FOR CONSTRUCTION OF PROPOSED SIDEWALK RAMP.





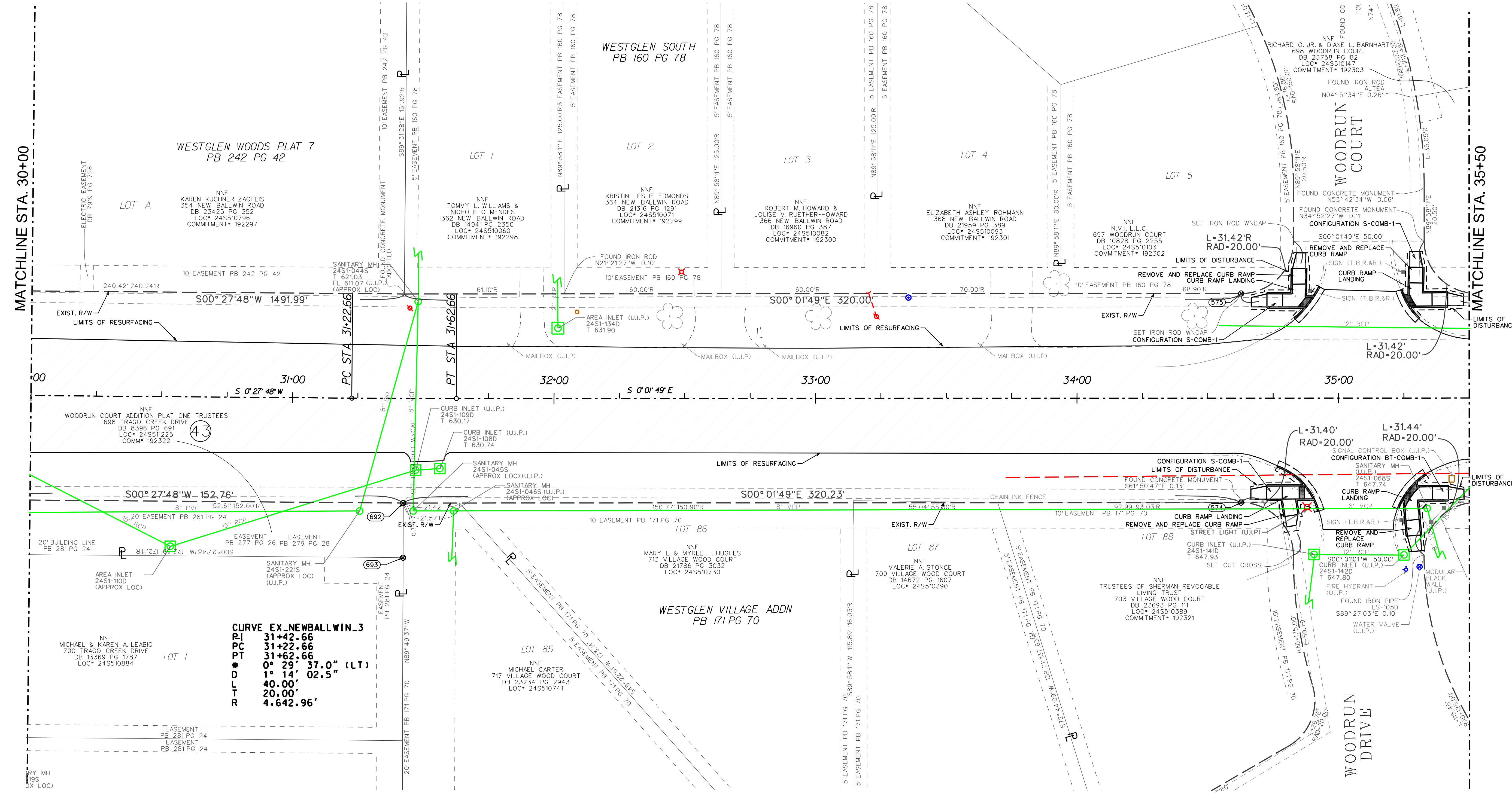
COUNTY PROJECT NO.
AR-1747

FEDERAL PROJECT NO.
STP-5494(602)

E-W GATEWAY TIP NO.
6905H-22

MSD:
22MSD-00020

MSD BASE MAP:
24S



CURVE EX NEWBALLWIN_3

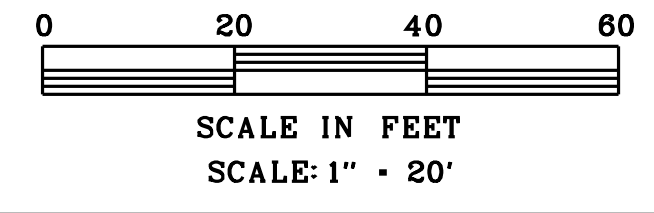
PI	31+42.66
PC	31+22.66
PT	31+62.66
* L	0° 29' 37.0" (LT)
D	1° 14' 02.5"
L	40.00'
R	4.642.96'

NOTES:

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- MSD BASEMAP 24S

LEGEND

□ MILL & OVERLAY ASPHALT



REV	DATE	BY	APP	DESCRIPTION

CONTRACTOR'S RESPONSIBILITY

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DATE: 10/13/2022

DAVID MASON
SURVEYING & ENGINEERING

800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030

MISSOURI CERTIFICATE OF AUTHORITY
001103

Saint Louis County TRANSPORTATION PUBLIC WORKS

Stephanie Leon Streeter, P. E.
Acting Director

NEW BALLWIN ROAD ARS RESURFACING

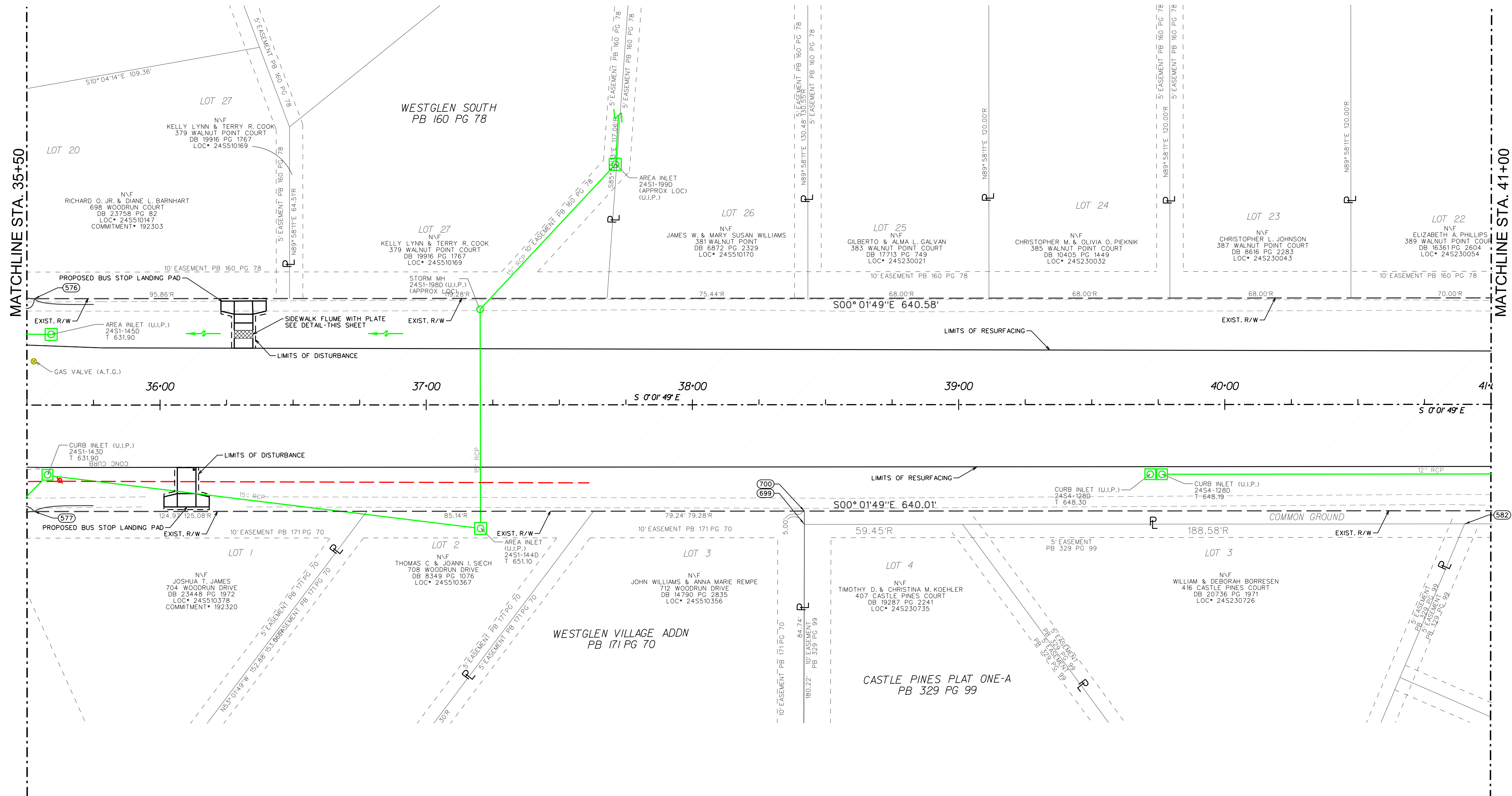
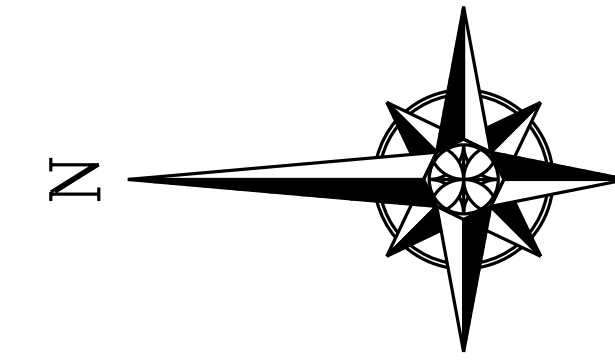
RIGHT OF WAY PLAN SHEET SHEET 4 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

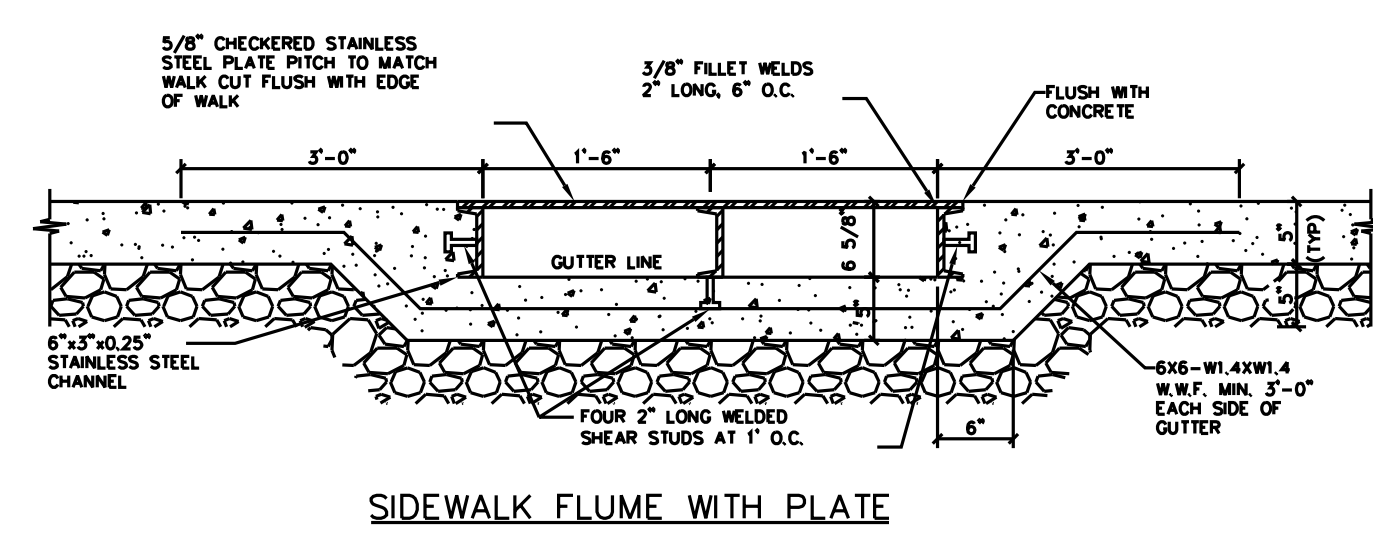
CHECKED: M.E.D.

SHEET SEQUENCE: 6 OF 14

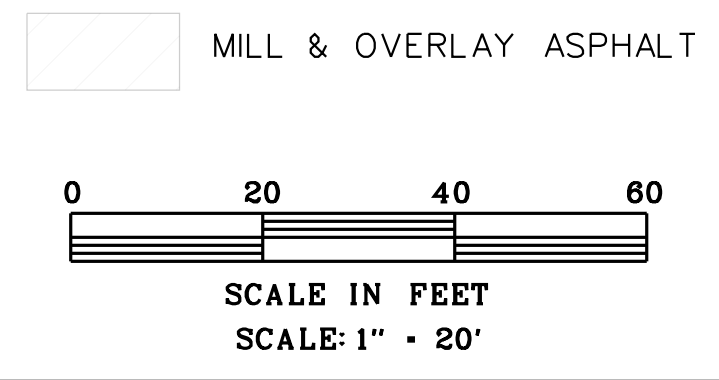


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3. MSD BASEMAP 24S



LEGEND



COUNTY PROJECT NO.	AR-1747		
FEDERAL PROJECT NO.	STP-5494(002)		
E-W GATEWAY TIP NO.	6905H-22		
MSD:	22MSD-00020		
MSD BASE MAP:	24S		
REVISIONS			
REV. DATE	BY	APP.	DESCRIPTION

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DATE: 10/13/2022

DAVID MASON
REGISTERED PROFESSIONAL SURVEYOR
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030

MISSOURI CERTIFICATE OF AUTHORITY
001103

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
Stephanie Leon, Streeter, P. E.
Acting Director

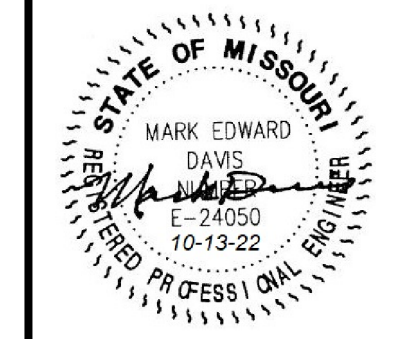
NEW BALLWIN ROAD ARS RESURFACING
RIGHT OF WAY PLAN SHEET
SHEET 5 OF 12

DESIGNED:	M.E.D.
DRAWN:	N.P.B.
CHECKED:	M.E.D.
SHEET SEQUENCE:	7 OF 14

COUNTY PROJECT NO.
AR-1747
FEDERAL PROJECT NO.
STP-5494(002)
E-W GATEWAY TIP NO.
6905H-22
MSD:
22MSD-00020
MSD BASE MAP:
24S

REV	DATE	BY	APP	DESCRIPTION

PROFESSIONAL RESPONSIBILITY
I hereby certify that the documents prepared by me or under my direct supervision and seal are true and correct to the best of my knowledge and belief, and that I am a duly licensed Professional Engineer in the State of Missouri. I am not providing engineering services in any other state. I am not providing engineering services in any other state. I am not providing engineering services in any other state.



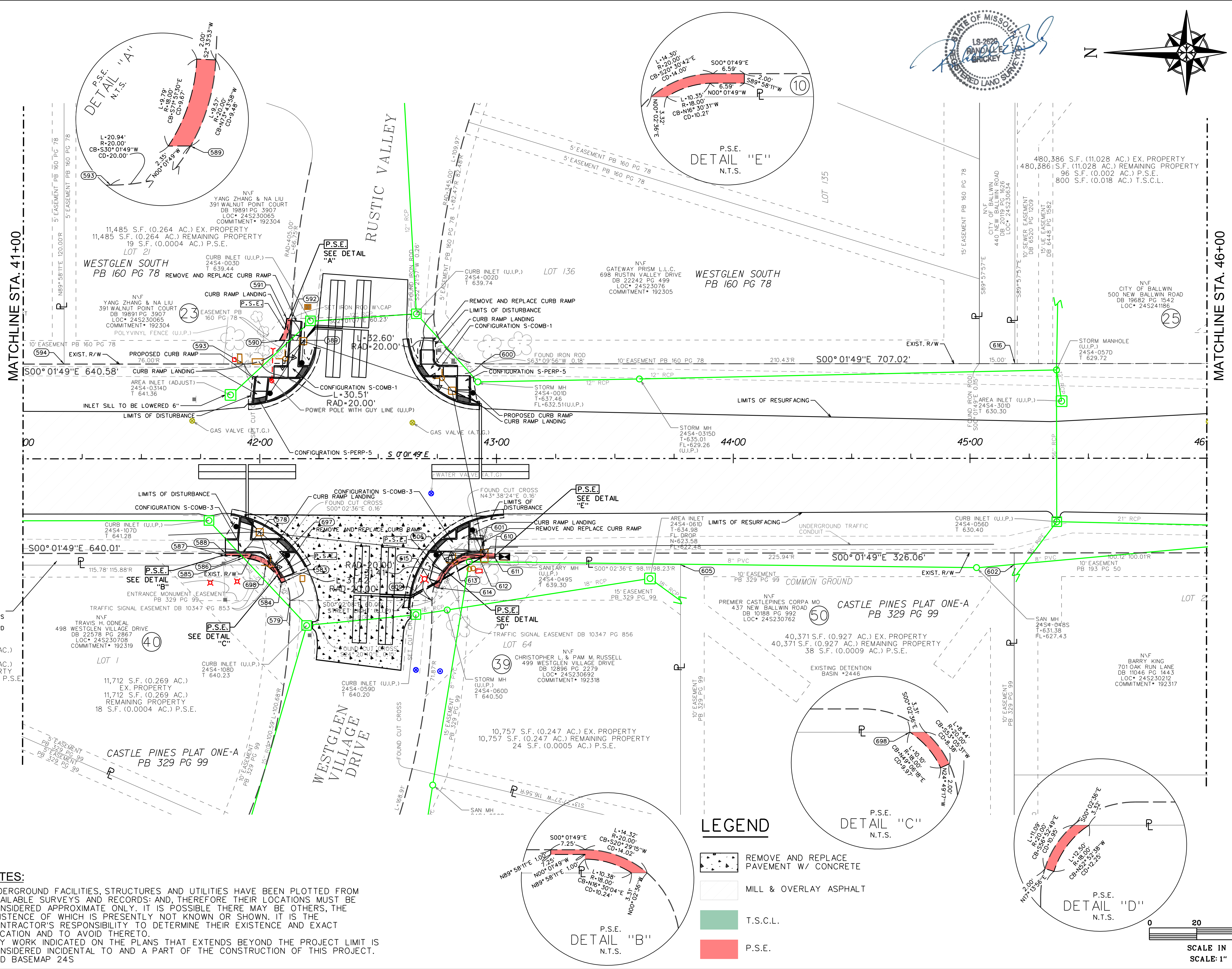
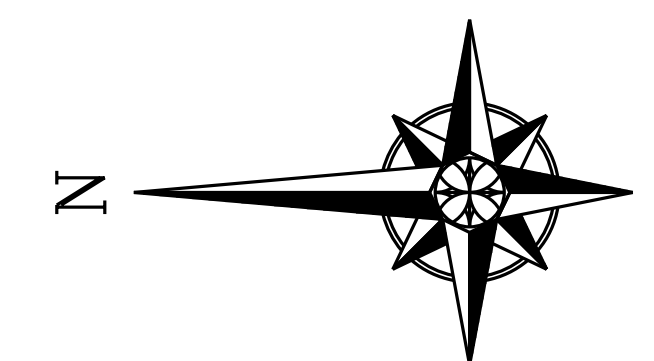
DATE: 10/13/2022

DAVID MASON
REGISTERED SURVEYOR
800 S. VANDEVENTER AVE
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-0030
MISSOURI CERTIFICATE OF AUTHORITY
001103

St. Louis County
TRANSPORTATION
PUBLIC WORKS
Stephanie Leon Streeter, P.E.
Acting Director

NEW BALLWIN ROAD
ARS RESURFACING
RIGHT OF WAY
PLAN SHEET
SHEET 6 OF 12

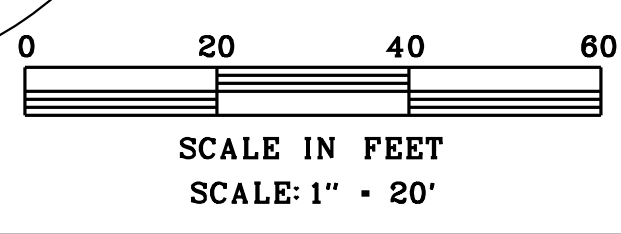
DESIGNED: M.E.D.
DRAWN: N.P.B.
CHECKED: M.E.D.
SHEET SEQUENCE: 8 OF 14

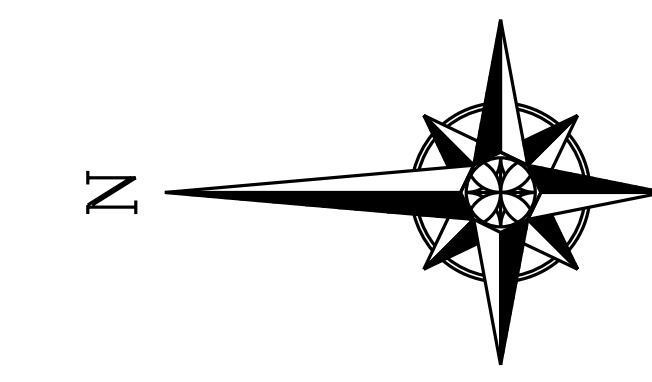
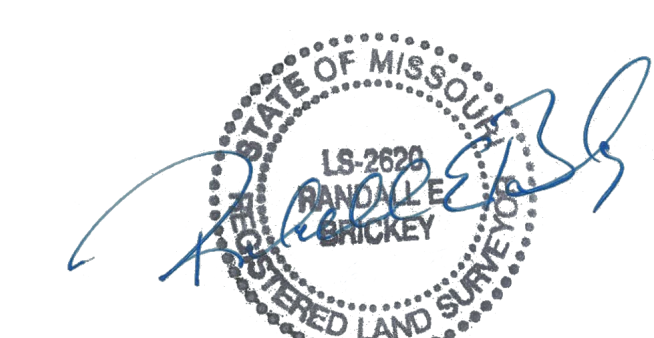


LEGEND

- REMOVE AND REPLACE PAVEMENT W/ CONCRETE
- MILL & OVERLAY ASPHALT
- T.S.C.L.
- P.S.E.

- NOTES:**
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 - MSD BASEMAP 24S





COUNTY PROJECT NO.
AR-1747

FEDERAL PROJECT NO.
STP-5494(002)

E-W GATEWAY TIP NO.
6905H-22

MSD:
22MSD-00020

MSD BASE MAP:
24S

REV	DATE	BY	APP	DESCRIPTION

CONTRACTOR'S RESPONSIBILITY

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DATE: 10/13/2022

DAVID MASON
REGISTERED PROFESSIONAL ENGINEER

800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030

MISSOURI CERTIFICATE OF AUTHORITY
0011103

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS

Stephanie Leon Streeter, P.E.
Acting Director

NEW BALLWIN ROAD ARS RESURFACING

RIGHT OF WAY PLAN SHEET

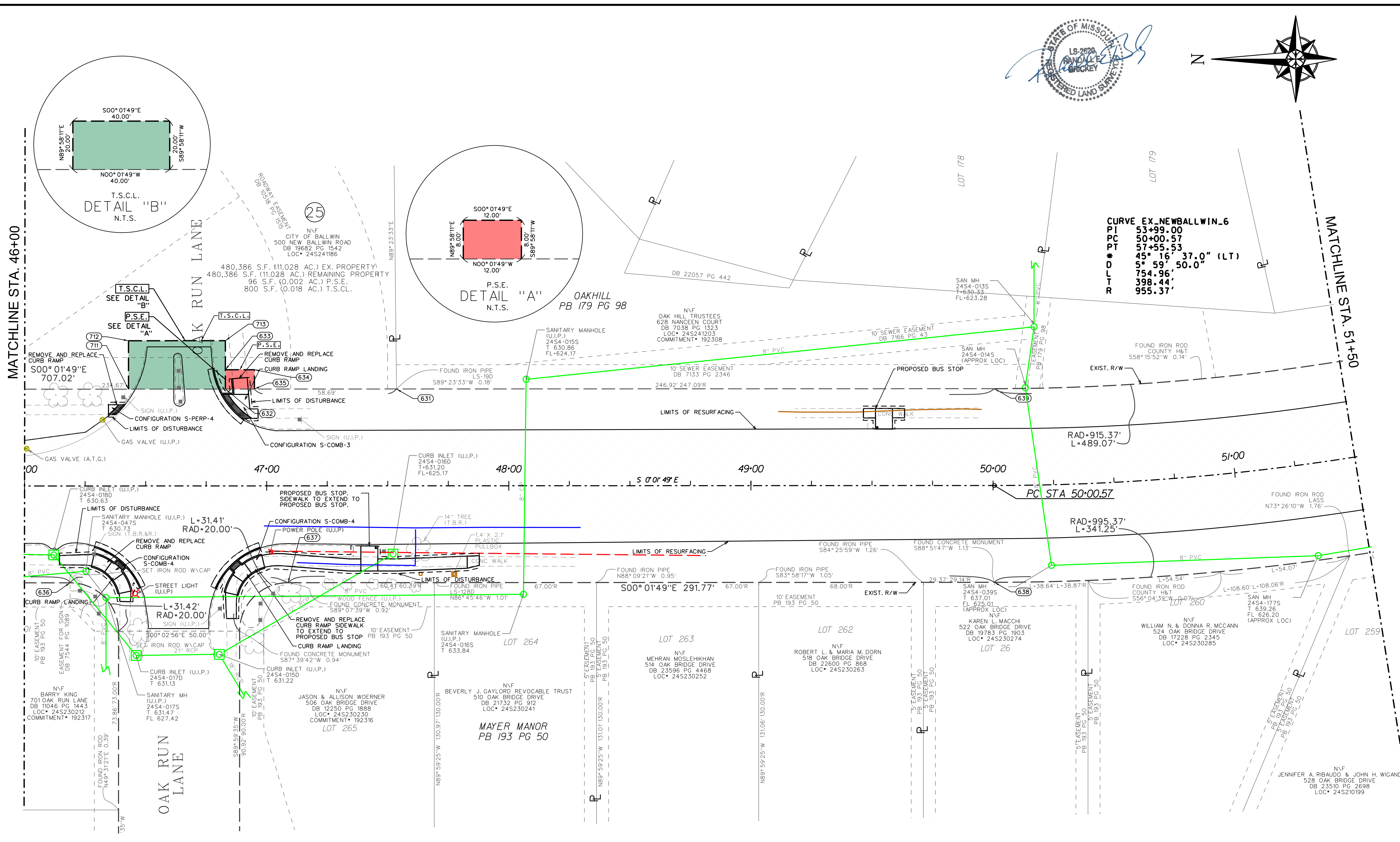
SHEET 7 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

CHECKED: M.E.D.

SHEET SEQUENCE: 9 OF 14



CURVE EX_NEWBALLWIN_6

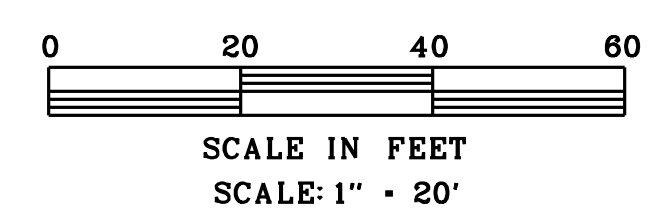
PI	53+99.00
PC	50+00.57
PT	57+55.53
#	45° 16' 37.0" (LT)
D	5° 59' 50.0"
L	754.96'
T	398.44'
R	955.37'

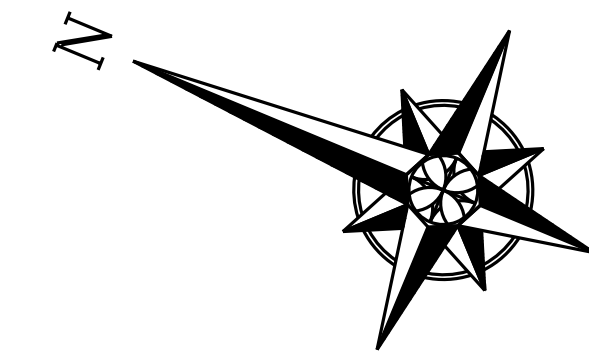
LEGEND

- MILL & OVERLAY ASPHALT
- T.S.C.L.
- P.S.E.

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AR-1747

FEDERAL PROJECT NO.
STP-5494(002)

E-W GATEWAY TIP NO.
6905H-22

MSD:
22MSD-00020

MSD BASE MAP:
24S

REV	DATE	BY	APP	DESCRIPTION

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MISSOURI CERTIFICATE OF AUTHORITY
0110113

St. Louis COUNTY
TRANSPORTATION
PUBLIC WORKS

Stephanie Leon Streeter, P. E.
Acting Director

NEW BALLWIN ROAD
ARS RESURFACING

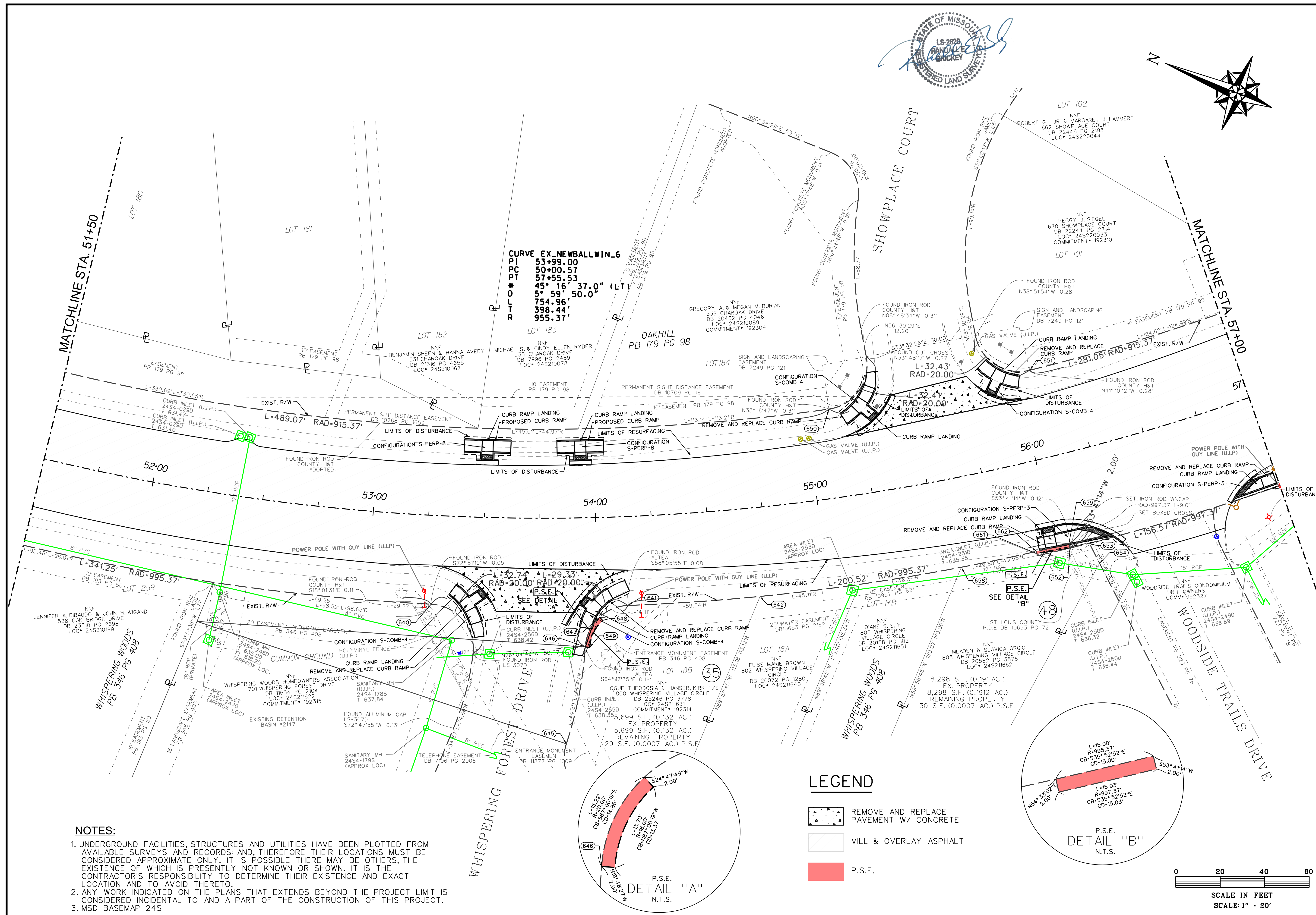
RIGHT OF WAY
PLAN SHEET
SHEET 8 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

CHECKED: M.E.D.

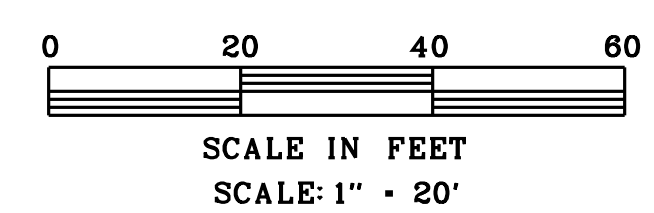
SHEET SEQUENCE:
10 OF 14



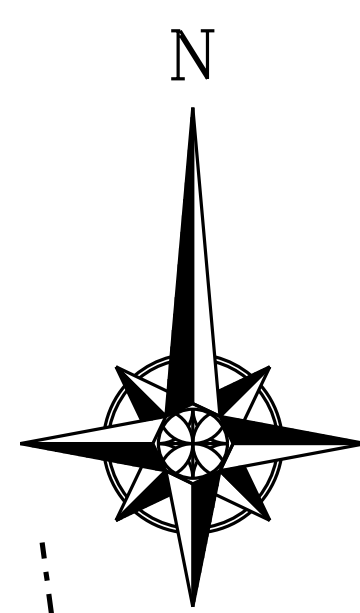
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LEGEND

- REMOVE AND REPLACE PAVEMENT W/ CONCRETE
- MILL & OVERLAY ASPHALT
- P.S.E.

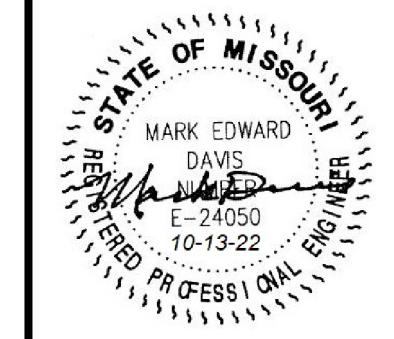


COUNTY PROJECT NO.
AR-1747
FEDERAL PROJECT NO.
STP-5494(002)
E-W GATEWAY TIP NO.
6905H-22
MSD:
22MSD-00020
MSD BASE MAP:
24S



REV	DATE	BY	APP	DESCRIPTION

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DATE: 10/13/2022

DAVID MASON
REGISTERED PROFESSIONAL ENGINEER
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030
MISSOURI CERTIFICATE OF AUTHORITY: 001103

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
Stephanie Leon, Streeter, P.E., Acting Director

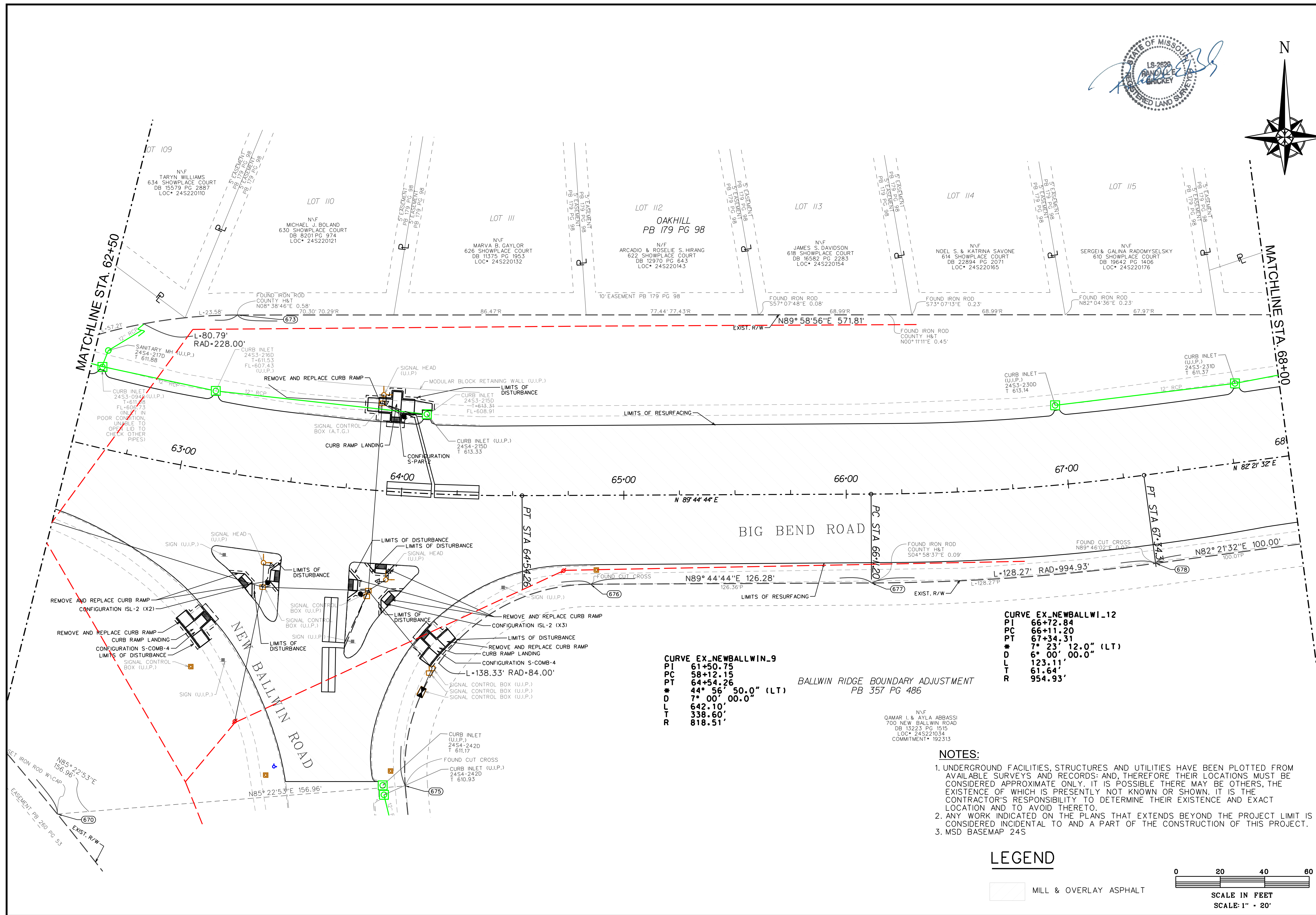
NEW BALLWIN ROAD ARS RESURFACING
RIGHT OF WAY PLAN SHEET
SHEET 10 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

CHECKED: M.E.D.

SHEET SEQUENCE: 12 OF 14



CURVE EX_NEWBALLWIN_9
PI 61+50.75
PC 58+12.15
PT 64+54.26
44° 56' 50.0" (LT)
D 7° 00' 00.0"
L 642.10'
T 338.60'
R 818.51'

BALLWIN RIDGE BOUNDARY ADJUSTMENT
PB 357 PG 486

NVF
QAMAR I. & AYLA ABBASSI
700 NEW BALLWIN ROAD
DB 13223 PG 1515
LOC* 245221034
COMMITMENT* 192313

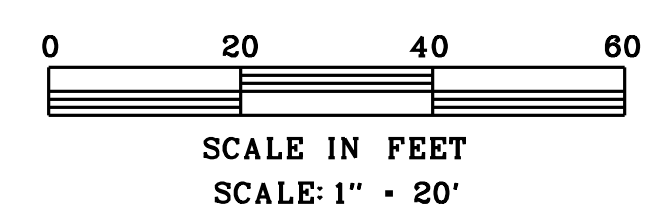
CURVE EX_NEWBALLWI_12
PI 66+72.84
PC 66+11.20
PT 67+34.31
7° 23' 12.0" (LT)
D 6° 00' 00.0"
L 123.11'
T 61.64'
R 954.93'

NOTES:

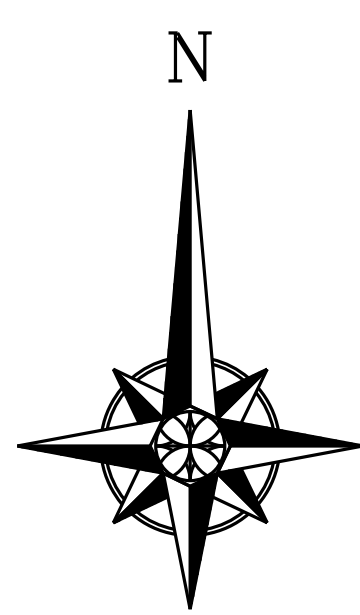
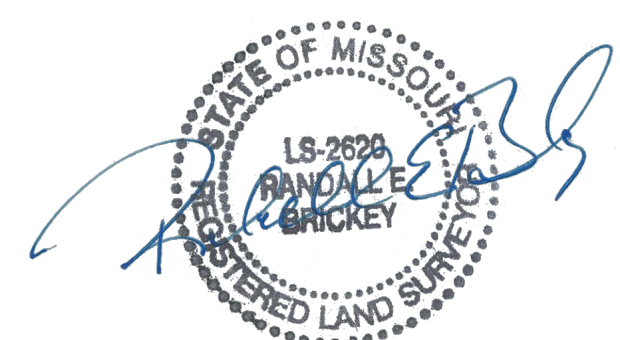
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LEGEND

MILL & OVERLAY ASPHALT

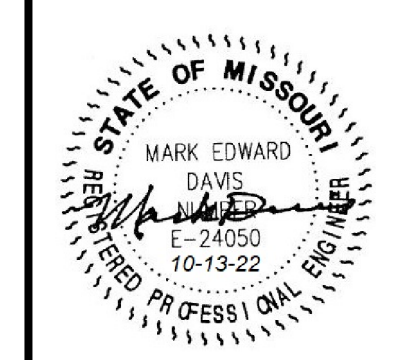


COUNTY PROJECT NO.
AR-1747
FEDERAL PROJECT NO.
STP-5494(002)
E-W GATEWAY TIP NO.
6905H-22
MSD:
22MSD-00020
MSD BASE MAP:
24S



REV	DATE	BY	APP	DESCRIPTION

CONTRACTOR'S RESPONSIBILITY
I hereby specify that the documents intended to be used in this project are limited to the project and I hereby disclaim any responsibility for all other documents or instruments relating to or intended to be used in any other project or survey.



DATE: 10/13/2022

DAVID MASON
800 S. VANDEVENTER AVE.
ST. LOUIS, MISSOURI 63110
PHONE (614) 354-1030
MISSOURI CERTIFICATE OF AUTHORITY 001103

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
Stephanie Leon, Streeter, P. E., Acting Director

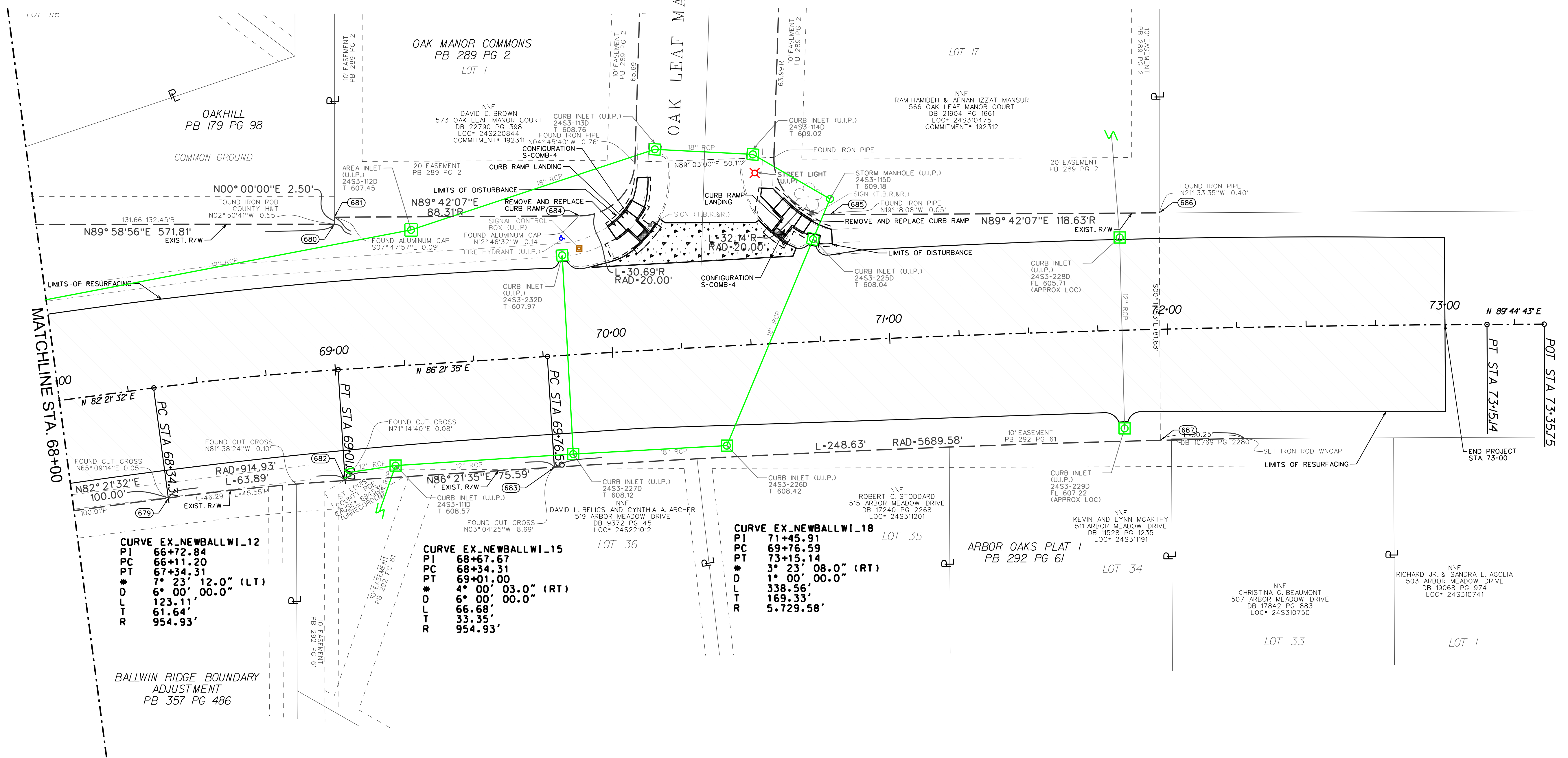
NEW BALLWIN ROAD ARS RESURFACING
RIGHT OF WAY PLAN SHEET
SHEET 11 OF 12

DESIGNED: M.E.D.

DRAWN: N.P.B.

CHECKED: M.E.D.

SHEET SEQUENCE: 13 OF 14



CURVE EX_NEWBALLWI-12

PI	66+72.84
PC	66+11.20
PT	67+34.31
#	7° 23' 12.0" (LT)
D	6° 00' 00.0"
L	123.11'
T	61.64'
R	954.93'

CURVE EX_NEWBALLWI-15

PI	68+67.67
PC	68+34.31
PT	69+01.00
#	4° 00' 03.0" (RT)
D	6° 00' 00.0"
L	66.68'
T	33.35'
R	954.93'

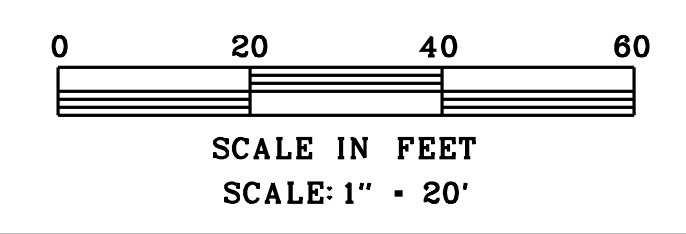
CURVE EX_NEWBALLWI-18

PI	71+45.91
PC	69+76.59
PT	73+15.14
#	3° 23' 08.0" (RT)
D	1° 00' 00.0"
L	338.56'
T	169.33'
R	5,729.58'

- NOTES:**
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID THERE TO.
 - ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMIT IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
 - MSD BASEMAP 24S

LEGEND

- REMOVE AND REPLACE PAVEMENT W/ CONCRETE
- MILL & OVERLAY ASPHALT



STATION	NORTH	EAST	REMARKS
13+42.66	35973.0490	29904.1230	POT Project Start
31+22.66	34193.1072	29889.7288	PC
31+62.66	34153.1074	29889.5777	PT
50+00.57	32315.2010	29890.5489	PC
57+55.53	31636.5447	30174.0022	PT
58+12.15	31596.7213	30214.2550	PC
64+54.26	31360.0884	30793.5521	PT
66+11.20	31360.7854	30950.4970	PC
67+34.31	31369.2554	31073.2310	PT
68+34.31	31382.5523	31172.3443	PC
69+01.00	31389.1050	31238.6885	PT
69+76.59	31393.9044	31314.1272	PC
73+15.14	31405.4082	31652.4381	PT
73+35.75	31405.4998	31673.0480	POT Project End

RIGHT OF WAY SUMMARY		EXIST. PROPERTY	NEW ROW	PRIMUSSTSE	PRIMUSSE	PSE	TSCL	REMAINDER
PARCEL NO.	OWNER	SF	SF	SF	SF	SF	SF	SF
47	City of Ballwin	319,909					3,658	319,909
43	Woodrun Court Addition Plat One Trustees					60		3,522
40	Odneal, Travis H.	11,712				18		11,712
39	Russell, Christopher L. & Pam M.	10,757				24		10,757
35	Logue, Theodosia & Hanser, Kirk T/E	5,699				29		5,699
48	Grgic, Mladen & Slawca	8,298				30		8,298
25	City of Ballwin	480,387				96	800	480,387
23	Yang Zhang & Na Liu	11,485				19		11,485
49	Premier Castlepines Corpa. MO Corp	1,782				32		1,782
50	Premier Castlepines Corpa. MO Corp	40,371				38		40,371
	TOTAL		0	0	0	346	4,458	



PROJECT COORDINATE SYSTEM				
POINT NO.	NORTH	EAST	STATION	OFFSET
550	36045.7292	29864.7094	OffChain	OffChain
551	35973.3725	29864.1243	13+42.66	40.00 RT.
552	35972.7255	29944.1217	13+42.66	40.00 LT.
553	35784.8955	29942.6027	15+30.50	40.00 LT.
554	35783.8178	29862.5914	15+32.22	40.00 RT.
555	35669.6032	29861.6678	16+46.44	40.00 RT.
556	35669.6436	29856.6679	16+46.44	45.00 RT.
557	35678.0782	29856.7361	16+38.00	45.00 RT.
558	35696.3711	29816.9873	16+20.03	84.90 RT.
559	35756.3660	29817.7727	15+60.03	84.60 RT.
560	35773.4064	29857.5070	15+42.67	45.00 RT.
561	35783.8583	29857.5916	15+32.22	45.00 RT.
566	35664.8994	29941.6323	16+50.50	40.00 LT.
567	35540.7900	29860.6261	17+75.26	40.00 RT.
568	35542.9156	29225.2086	17+78.27	675.41 RT.
569	36049.0287	29234.5496	OffChain	OffChain
570	35263.8203	29858.3863	20+52.24	40.00 RT.
571	35161.9257	29857.5622	21+54.13	40.00 RT.
572	34416.0070	29851.5301	29+00.08	40.00 RT.
573	34326.0099	29850.8023	29+90.08	40.00 RT.
574	33853.0295	29849.7363	34+62.72	40.00 RT.
575	33852.9532	29929.7363	34+62.84	40.00 LT.
576	33762.9532	29929.7839	35+52.84	40.00 LT.
577	33763.0295	29849.7838	35+52.72	40.00 RT.
578	33123.0151	29850.1220	41+92.73	40.00 RT.
579	33103.0045	29830.1294	42+12.73	60.00 RT.
580	33123.3297	29732.3343	41+92.35	157.79 RT.
581	33249.9762	29787.4094	40+65.74	102.65 RT.
582	33225.6638	29845.1277	40+90.08	44.94 RT.
583	33104.8521	29838.5178	42+10.89	51.61 RT.
584	33106.6673	29837.8783	42+09.07	52.45 RT.
585	33123.0140	29848.1220	41+92.73	42.00 RT.
586	33123.0145	29849.1220	41+92.73	41.00 RT.
587	33130.2664	29849.1182	41+85.48	41.00 RT.
588	33130.2669	29850.1182	41+85.48	40.00 RT.
589	33105.0567	29940.1315	42+10.74	50.00 LT.
590	33107.4106	29940.1303	42+08.38	50.00 LT.
591	33104.4005	29949.3170	42+11.40	59.19 LT.
592	33102.4025	29949.2275	42+13.40	59.09 LT.
593	33122.3719	29930.1224	41+93.42	40.00 LT.
594	33198.3727	29930.0822	41+17.42	40.00 LT.
595	33198.4361	30050.0822	41+17.42	160.00 LT.
596	33170.6828	30050.0969	41+45.17	160.00 LT.
597	33116.2679	30041.4522	41+99.58	151.33 LT.
598	33107.3031	30038.5247	42+08.54	148.39 LT.
599	33093.9489	30015.3524	42+21.89	125.22 LT.
600	33022.2376	29930.1753	42+93.55	40.00 LT.
601	33023.0151	29850.1749	42+92.73	40.00 RT.
602	32797.0782	29850.2943	45+18.67	40.00 RT.
603	32797.0840	29499.0900	45+18.48	391.20 RT.
604	32938.0314	29635.0698	43+77.60	255.15 RT.
605	32938.0147	29845.3447	43+77.73	44.88 RT.
606	33036.1238	29845.2707	42+79.62	44.90 RT.
607	32938.0237	29731.9322	43+77.66	158.29 RT.
608	33051.3791	29759.0577	42+64.32	131.10 RT.
609	33043.0045	29830.1665	42+72.73	60.00 RT.
610	33016.4279	29850.1784	42+99.31	40.00 RT.
611	33016.4268	29848.1784	42+99.32	42.00 RT.
612	33023.0140	29848.1749	42+92.73	42.00 RT.
613	33032.8045	29845.2732	42+82.94	44.90 RT.
614	33040.1965	29835.5073	42+75.54	54.66 RT.
615	33042.1068	29836.0998	42+73.63	54.07 RT.
616	32796.8069	29930.2944	45+18.98	40.00 LT.
618	32083.6748	31238.1189	69+44.53	693.20 LT.
619	32133.1520	31137.7093	68+71.00	749.80 LT.
620	32159.3676	31032.8569	67+99.36	788.46 LT.
621	32189.0452	30955.0122	66+72.87	827.97 LT.
622	32220.9556	30859.9026	65+24.43	860.56 LT.
623	32322.1790	30852.0186	49+94.10	961.47 LT.
624	32371.9286	30837.3749	49+44.34	946.86 LT.
625	32402.1723	30774.1791	49+14.06	833.68 LT.
626	32412.1699	30505.1648	49+03.92	614.67 LT.
627	32405.9102	30485.2654	49+10.17	594.76 LT.

628	32750.9773	30481.8531	45+65.10	591.53 LT.
629	32748.7887	30268.8644	45+67.18	378.54 LT.
630	32665.7984	30270.7447	47+50.17	360.33 LT.
631	32562.1402	29930.4184	47+53.65	40.00 LT.
632	32632.8269	29930.3811	46+82.96	40.00 LT.
633	32632.8311	29938.3811	46+82.96	48.00 LT.
634	32620.8311	29938.3874	46+94.96	48.00 LT.
635	32620.8269	29930.3874	46+94.96	40.00 LT.
636	32696.9537	29850.3472	46+18.79	40.00 RT.
637	32606.9537	29850.3947	47+08.79	40.00 RT.
638	32315.1799	29850.5489	50+00.57	40.00 RT.
639	32315.2222	29930.5489	50+00.57	40.00 LT.
640	31980.6099	29908.6504	53+28.10	40.00 RT.
641	31898.6650	29942.1277	54+13.09	40.00 RT.
642	31845.3730	29968.6797	54+70.25	40.00 RT.
643	31845.4140	29855.4973	54+23.59	141.04 RT.
644	31880.4140	29855.5099	53+95.67	126.48 RT.
645	31900.3521	29874.0321	53+85.91	101.55 RT.
646	31909.2176	29917.5200	53+94.34	58.12 RT.
647	31908.4414	29932.3558	54+00.70	44.86 RT.
648	31906.6258	29931.5170	54+01.96	46.37 RT.
649	31907.3243	29918.1647	53+96.22	58.29 RT.
650	31849.1569	30058.3692	55+11.01	40.00 LT.
651	31772.4517	30109.1847	56+07.08	40.00 LT.
652	31725.0705	30042.2418	56+05.55	42.00 RT.
653	31717.8309	30047.6128	56+14.19	42.00 RT.
654	31710.1705	30041.0892	56+16.30	51.82 RT.
655	31729.8881	29854.3572	55+09.88	196.31 RT.
656	31750.8175	29855.4630	54+95.25	184.85 RT.
657	31766.9140	29855.4688	54+83.45	176.96 RT.
658	31766.8560	30015.5422	56+58.04	40.00 RT.
659	31726.2548	30043.8534	56+05.55	40.00 RT.
661	31737.2488	30033.4323	55+91.16	42.00 RT.
662	31738.4087	30035.0616	55+91.16	40.00 RT.
663	31606.6874	30144.4634	57+55.53	42.00 RT.
664	31566.8840	30184.7162	58+12.15	42.00 RT.
665	31568.2858	30186.1228	58+12.15	40.00 RT.
666	31575.1899	30307.8311	58+98.86	46.18 LT.
667	31531.1010	30368.5062	59+78.37	45.96 LT.
668	31430.5310	30368.6730	60+30.84	40.00 RT.
669	31497.2696	30413.2478	60+37.25	40.00 LT.
670	31216.8395	30584.5886	62+78.46	164.91 RT.
671	31023.7496	30715.9400	63+98.26	338.70 RT.
672	31427.1338	30586.4698	62+34.21	40.00 LT.
673	31441.3235	30665.5772	63+13.87	70.83 LT.
674	31084.9256	30773.0903	64+38.03	275.28 RT.
675	31229.4783	30741.0371	64+08.50	131.86 RT.
676	31320.2250	30824.3926	64+84.92	40.00 RT.
677	31320.7858	30850.6752	66+11.20	40.00 RT.
678	31329.6106	31078.5497	67+34.31	40.00 RT.
679	31342.9075	31177.6630	68+34.31	40.00 RT.
680	31441.5009	31237.3894	69+03.03	52.37 LT.
681	31444.0006	31237.3894	69+03.18	54.87 LT.
682	31349.1857	31241.2282	69+01.00	40.00 RT.
683	31353.9851	31316.6669	69+76.59	40.00 RT.
684	31444.4601	31325.7000	69+91.22	49.74 LT.
685	31444.9288	31415.7575	70+80.43	45.42 LT.
686	31445.5461	31534.3859	71+98.12	41.87 LT.
687	31363.6650	31534.8120	71+96.50	40.00 RT.
688	34326.0261	29848.8024	29+90.08	42.00 RT.
689	34326.1716	29830.8030	29+90.08	60.00 RT.
690	34344.1710	29830.9573	29+72.08	59.99 RT.
691	34346.1709	29830.9745	29+70.08	59.99 RT.
692	34173.4095	29849.5682	31+42.51	40.04 RT.
693	34173.4726	29828.6668	31+42.53	60.94 RT.
694	34346.1811	29830.0634	29+70.07	60.90 RT.
695	33123.0045	29830.1220	41+92.73	60.00 RT.
696	33348.0045	29830.0391	39+67.73	59.96 RT.
697	33109.8820	29845.2151	42+05.86	44.91 RT.
698	33113.1925	29845.2126	42+02.55	44.91 RT.
699	33473.6920	29844.9406	38+42.05	45.00 RT.
700	33473.6780	29849.9367	38+42.07	40.00 RT.
701	33023.0045	29830.1749	42+92.73	60.00 RT.
702	31880.4068	29875.5099	54+02.91	108.20 RT.
703	31890.2854	29923.9678	54+13.09	60.00 RT.
704	32315.7059	30845.9188	50+00.57	955.37 LT.
705	31750.8900	29855.4630	54+23.29	362.28 RT.
707	33170.5904	29875.0969	41+45.17	15.00 RT.
708	33113.5114	30019.5127	42+02.32	129.39 LT.
709	33122.3825	29950.1224	41+93.42	60.00 LT.
710	32697.8081	29931.1055	46+17.98	40.76 LT.