



GREAT RIVERS GREENWAY CONNECTOR PROJECT

60% DESIGN

CITY OF BRENTWOOD, MISSOURI



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 COVER



JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020



P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: AF
 DRAWN: AF
 CHECKED: SK

HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH

SHEET 1 OF 92

COVER

MSD NOTE:

NO WORK CONCERNING LATERALS, EXISTING, SEWERS OR GRADING SHALL COMMENCE WITHOUT MSD PLAN APPROVAL.

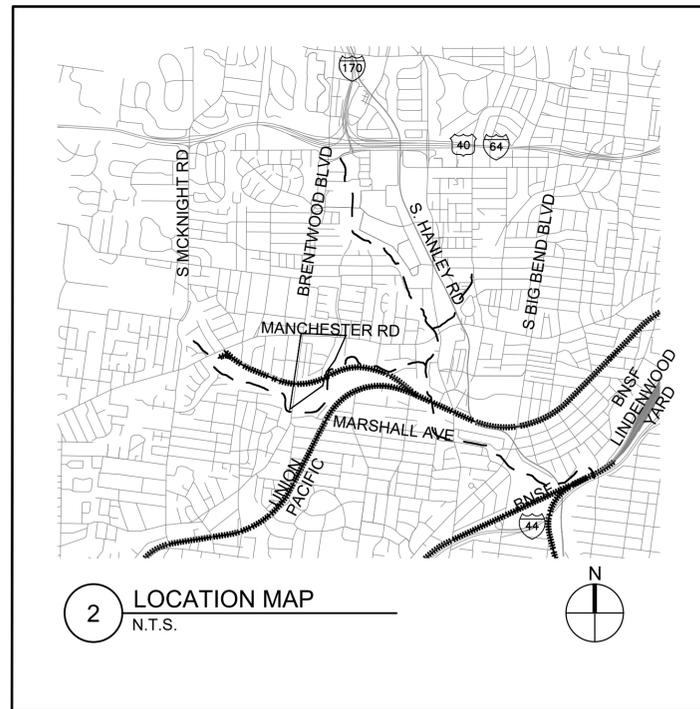
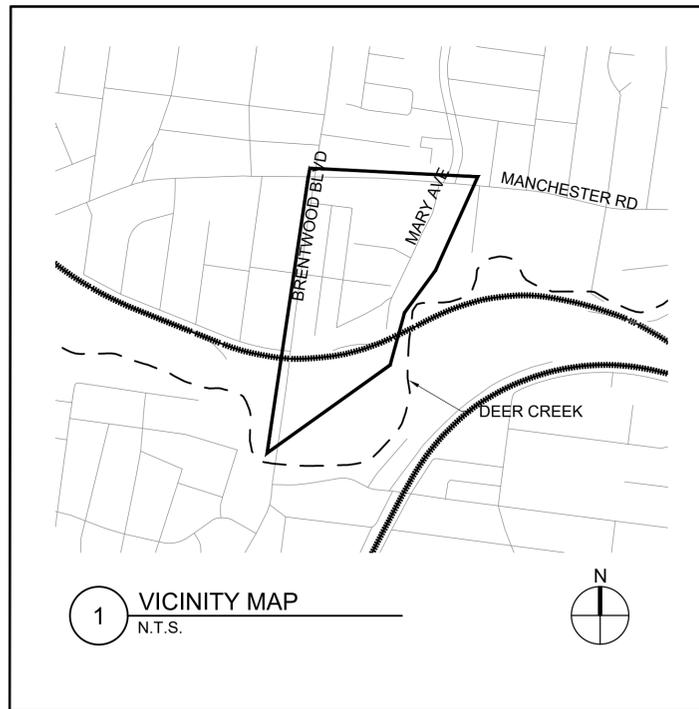
CONTROL POINT / BENCHMARK INFORMATION:

#14498 NAVD88 ELEV = 458.80

CUT "U" ON SOUTH SIDE OF ROUND CONCRETE BASE FOR THE WESTERNMOST OVERHEAD LAMP POST IN GRASS AREA BETWEEN THE SIDEWALK ALONG THE SOUTH SIDE OF MANCHESTER ROAD AND THE PARKING LOT FOR DEAN TEAM USED CAR LOT AT #8154 MANCHESTER ROAD; ROUGHLY 40 FEET SOUTH OF THE CENTERLINE OF MANCHESTER ROAD AND 340 FEET MORE OR LESS WEST OF THE CENTERLINE OF MERCANTILE DRIVE.

#14499 NAVD88 ELEV = 448.69

ALUMINUM TABLE STAMPED METROLINK 514 AND SET IN MASS OF CONCRETE WITHIN AND COVERED BY AN AREA LANDSCAPED WITH GRAVEL, SOUTH OF MANCHESTER ROAD IN FRONT OF COMMERCIAL BUILDING ADDRESSED AS #8044 MANCHESTER ROAD; ROUGHLY 3 FEET SOUTH OF THE INTERSECTION OF THE SOUTH SIDE OF MANCHESTER ROAD SIDEWALK WITH THE WEST CURB ROUNDING OF COMMERCIAL DRIVE AND PARKING, AND 42 FEET NORTHWEST OF THE NORTHEAST CORNER OF THE AFORESAID COMMERCIAL BUILDING



DEER CREEK FLOOD MITIGATION

TOTAL AREA	=	19.40 AC
EXISTING IMPERVIOUS AREA	=	9.71 AC
EXISTING PERVIOUS AREA	=	9.69 AC
EXISTING Q	=	50.86 CFS
PROPOSED IMPERVIOUS AREA	=	5.81 AC
PROPOSED PERVIOUS AREA	=	13.59 AC
PROPOSED Q	=	43.69 CFS
IMPERVIOUS PI FACTOR*	=	3.54 CFS/AC
PERVIOUS PI FACTOR*	=	1.70 CFS/AC
DIFFERENTIAL Q = 43.69 CFS - 50.86 CFS	=	-7.17 CFS

STORMWATER MANAGEMENT FUTURE NOTE:

PROJECT DISTURBANCE	=	3.90 ACRES
PROJECT RUNOFF DIFFERENTIAL	=	-7.17 CFS

15-YEAR, 20-MINUTE DURATION PI USED FOR CALCULATIONS.

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN).

NOTICE TO CONTRACTOR:

THIS PROJECT INCLUDES RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES. IN ACCORDANCE WITH 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 RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES IS REQUIRED PRIOR TO MSD CONSTRUCTION APPROVAL OF THIS PROJECT.

CONTRACTORS 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 REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITIES, SECTION 10.090. (ADDENDUM)

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PDS
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SHEET 2 OF 92

G-001

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GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ENGINEER.
2.	THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THIS WORK. THE COST OF THESE PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
3.	THE CONTRACTOR SHALL LAYOUT/STAKE THEIR OWN WORK AND SHALL BE RESPONSIBLE FOR ALL WORK EXECUTED UNDER THIS CONTRACT. THE CONTRACTOR SHALL VERIFY ALL FIGURES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK AND WILL BE RESPONSIBLE FOR ANY ERROR RESULTING FROM ITS FAILURE TO DO SO.
4.	SITE DIMENSIONS ARE TO FACE OF CURB, PROPERTY LINE OR FACE OF BUILDING UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND RADII TO OR FROM CURB LINES ARE TO FACE OF CURB.
5.	CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SURVEY OR PROPERTY MARKERS AND MONUMENTS. ANY MARKERS OR MONUMENTS THAT ARE REMOVED OR DISTURBED BY THE CONTRACTOR'S ACTIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR IN THE STATE OF MISSOURI.
6.	DO NOT DISTURB ANY UTILITIES UNLESS NOTED OTHERWISE.
7.	USE OF EXPLOSIVES AND BURNING ON-SITE WILL NOT BE PERMITTED.
8.	CONSTRUCTION SIGNS, LIGHTS, AND BARRICADES SHALL BE INSTALLED AT LOCATIONS NECESSARY TO MAINTAIN A SAFE WORK SITE CONDITION AS DIRECTED/APPROVED BY THE CITY ENGINEER, AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), LATEST EDITION.
9.	ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH APPLICABLE OSHA REGULATIONS.
10.	ALL GROUND SURFACES DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
11.	HORIZONTAL AND VERTICAL CONTROL POINTS REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LAND SURVEYOR REGISTERED IN THE STATE OF MISSOURI AT THE CONTRACTOR'S EXPENSE.
12.	CONTRACTOR SHALL CONTROL DUST BY SPRINKLING OF WATER OR ANY OTHER NECESSARY MEANS APPROVED BY THE PROJECT ENGINEER.

DEMOLITION NOTES

1.	THE APPROPRIATE UTILITY AGENCY SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF ANY WORK WHICH WILL AFFECT AN EXISTING UTILITY.
2.	REMOVAL AND/OR ABANDONMENT OF EXISTING SEWERS SHALL BE IN ACCORDANCE WITH THE STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT, 2009 EDITION.
3.	IN REMOVING PAVEMENT, CURB, GUTTER, SIDEWALKS AND OTHER SIMILAR IMPROVEMENTS AND WHERE A PORTION OF SUCH IMPROVEMENTS ARE TO BE LEFT IN PLACE, THEY SHALL BE REMOVED TO AN EXISTING JOINT OR SAWCUT AT LIMITS OF REMOVAL.
4.	ALL EXISTING SIGNAGE SHALL BE PROTECTED, OR REMOVED AND REINSTALLED AT ITS ORIGINAL LOCATION UNLESS NOTED OTHERWISE ON THE PLANS. THE ENGINEER SHALL APPROVE THE FINAL LOCATION OF ALL SIGNAGE. THE CONTRACTOR SHALL REPLACE, AT HIS EXPENSE, ANY SIGNS DAMAGED OR LOST DURING REMOVAL, STORAGE AND RESETTING.
5.	ANY TRAFFIC CONTROL SIGNS SUCH AS STOP, YIELD, OR SLOW REMOVED AND STORED WHILE A STREET REMAINS OPEN TO TRAFFIC SHALL BE REPLACED WITH SIMILAR TEMPORARY SIGNS IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), LATEST EDITION.
6.	ALL CONDUIT, DUCTS, FITTINGS, VALVES, AND OTHER DEBRIS RESULTING FROM THE DEMOLITION OF UTILITIES SHALL BE REMOVED AND DISPOSED OF OFF SITE.
7.	ALL DEBRIS RESULTING FROM THE DEMOLITION OF RIGID PAVEMENTS, CURBING, STRUCTURES, FOUNDATIONS AND FOOTINGS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
8.	ALL EXISTING ABOVE AND BELOW GRADE IMPROVEMENTS SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE ON THE PLANS.
9.	COORDINATE PAVEMENT AND SIDEWALK REMOVAL LIMITS WITH PROPOSED PAVEMENT AND SIDEWALK.
10.	SAWCUT PAVEMENT TO FULL DEPTH. COORDINATE LIMITS OF PAVEMENT REMOVAL WITH DIMENSIONS.

MSD NOTES	
1.	ELEVATION OF EXISTING SEWERS ARE FROM AVAILABLE PLANS, RECORD DRAWINGS AND/OR SURVEYS. ACTUAL ELEVATIONS MAY VARY FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING SEWERS PRIOR TO COMMENCING CONSTRUCTION.
2.	EXISTING INLETS, MANHOLES AND SEWERS TO BE ABANDONED (T.B.A.) SHALL BE ABANDONED IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICTS "STANDARD CONSTRUCTION SPECIFICATIONS", 2009 EDITION. THE CONTRACTOR SHALL CAREFULLY COORDINATE SEWER ABANDONMENT TO ENSURE THAT ACTIVE SEWERS ARE NOT DAMAGED OR FILLED.
3.	TOPS OF ALL MANHOLES AND INLETS TO REMAIN IN PLACE SHALL BE ADJUSTED TO PROPER FINISH GRADE ELEVATION, IN ACCORDANCE WITH REQUIREMENTS OF MSD. MANHOLES SHALL BE RAISED USING COURSES OF BRICK OR APPROVED GRADE RING(S), PROVIDED THE TOTAL ADJUSTMENT OF THE MANHOLE DOES NOT EXCEED 12 INCHES (INCLUDING EXISTING RINGS OR COURSES OF BRICK). FOR MANHOLES WHICH EXCEED THE MAXIMUM OF 12 INCHES, THE TRANSITION SECTION OF THE STRUCTURE SHALL BE REMOVED AND THE BOTTOM SECTION RAISED USING THE SAME MATERIAL AS THE EXISTING STRUCTURE.
4.	MANHOLES SHALL BE LOWERED BY REMOVING THE TRANSITION SECTION, AND LOWERING THE EXISTING BOTTOM SECTION BY SAWCUTTING THE EXISTING CAST-IN-PLACE CONCRETE, REMOVING THE REQUIRED COURSES OF BRICK, OR REMOVING THE PRECAST RISER SECTION AS APPROPRIATE.
5.	WATER JETTING UTILITY OR SEWER TRENCH BACKFILL SHALL NOT BE PERMITTED.
6.	FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1 %), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.
7.	FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1 %. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.
8.	MSD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED ABOVE.
9.	THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
10.	MAINTENANCE OF THE SEWERS DESIGNATED AS "PUBLIC" SHALL BE THE RESPONSIBILITY OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

STANDARD CONSTRUCTION:	
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.

EXCAVATION/GRADING NOTES

1. DAMAGE TO OFF-SITE STREETS AND PROPERTIES DUE TO SOIL EROSION OR SILTATION SHALL BE PREVENTED BY ERECTING SILT BARRIERS OR BASINS, OR BY UTILIZING SIMILAR DEVICES TO EFFECT SOIL STABILIZATION. INSPECTION OF AND NECESSARY REPAIRS TO THE EROSION CONTROL MEASURES MUST BE MADE DAILY FOLLOWING PERIODS OF PRECIPITATION, AND/OR AS DIRECTED BY THE CITY ENGINEER. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR IF DIRECTED.
2. ALL TRENCHES UNDER, OR ADJACENT TO PROPOSED PAVEMENT OR SIDEWALKS SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED 3/4" MINUS CRUSHED LIMESTONE. CRUSHED LIMESTONE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. ELEVATIONS SHOWN ARE TO TOP OF FINISHED GROUND OR PAVED SURFACE, UNLESS NOTED OTHERWISE.
4. ALL TRASH, DEBRIS, ORGANIC MATERIAL, REFUSE, FROZEN EARTH, ETC., SHALL BE REMOVED FROM FILL AREAS PRIOR TO THE PLACEMENT OF CONTROLLED FILL. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
5. CARE SHALL BE EXERCISED IN COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT DAMAGE TO WATERPROOFING MEMBRANES, JOINTS, SEALS, AND/OR THE PIPES AND STRUCTURES THEMSELVES.
6. SILTATION CONTROL DEVICES SHALL BE PLACED AT ALL DISCHARGE POINTS TO PROTECT ADJACENT PROPERTY AND RIGHT-OF-WAYS. UPON COMPLETION OF STORM SEWERS, SILT BARRIERS SHALL BE PLACED ON ALL SIDES OF INLET STRUCTURES TO KEEP SILT OUT OF STORM SEWER. SILTATION CONTROL DEVICES SHALL BE SECURELY ANCHORED AND PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE PAVED OR TURF HAS BEEN ESTABLISHED.

PROJECT INFO	
PROJECT OWNER:	CITY OF BRENTWOOD DEPARTMENT OF PARKS AND RECREATION
WATERSHED:	DEER CREEK
FIRE DISTRICT:	BRENTWOOD
SCHOOL DISTRICT:	BRENTWOOD
UTILITY CONTACTS:	AMEREN 1901 CHOUTEAU AVENUE ST. LOUIS, MO 63116 (314) 554-5154 METROPOLITAN ST. LOUIS SEWER DISTRICT 2350 MARKET STREET ST. LOUIS, MO 63103 (314) 768-6200 AT&T 12851 MANCHESTER RD. DES PERES, MO 63131 (636) 402-7027 SPIRE 700 MARKET STREET ST. LOUIS, MO 63101 (800) 887-4173 MISSOURI AMERICAN WATER 727 CRAIG ROAD ST. LOUIS, MO 63141 (866) 430-0820

UTILITY NOTES

1. THE UTILITY COMPANIES LISTED ON THIS SHEET ARE KNOWN TO HAVE FACILITIES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE AGENCY PRIOR TO THE COMMENCEMENT OF ANY WORK WHICH WILL AFFECT ANY EXISTING UTILITY. THERE MAY BE OTHER UTILITIES IN THE PROJECT AREA THAT ARE NOT LISTED.
2. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS WORK SHALL BE COMPLETED PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL SUCH UNDERGROUND UTILITIES DURING ALL PHASES OF WORK.
3. LOCATE EXISTING UNDERGROUND UTILITIES AND SEWERS IN THE AREAS OF WORK BEFORE STARTING CONSTRUCTION. WHEN UTILITIES OR SEWERS ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING CONSTRUCTION. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE PROJECT ENGINEER AND UTILITY OWNER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH THE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER. REMOVALS OR RELOCATIONS BY UTILITY COMPANIES ARE TO BE INITIATED AND COORDINATED BY THE CONTRACTOR.
4. DESIGN OF SHORING FOR UTILITY AND SEWER TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR.



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 GENERAL NOTES



NO.	DATE	REVISION

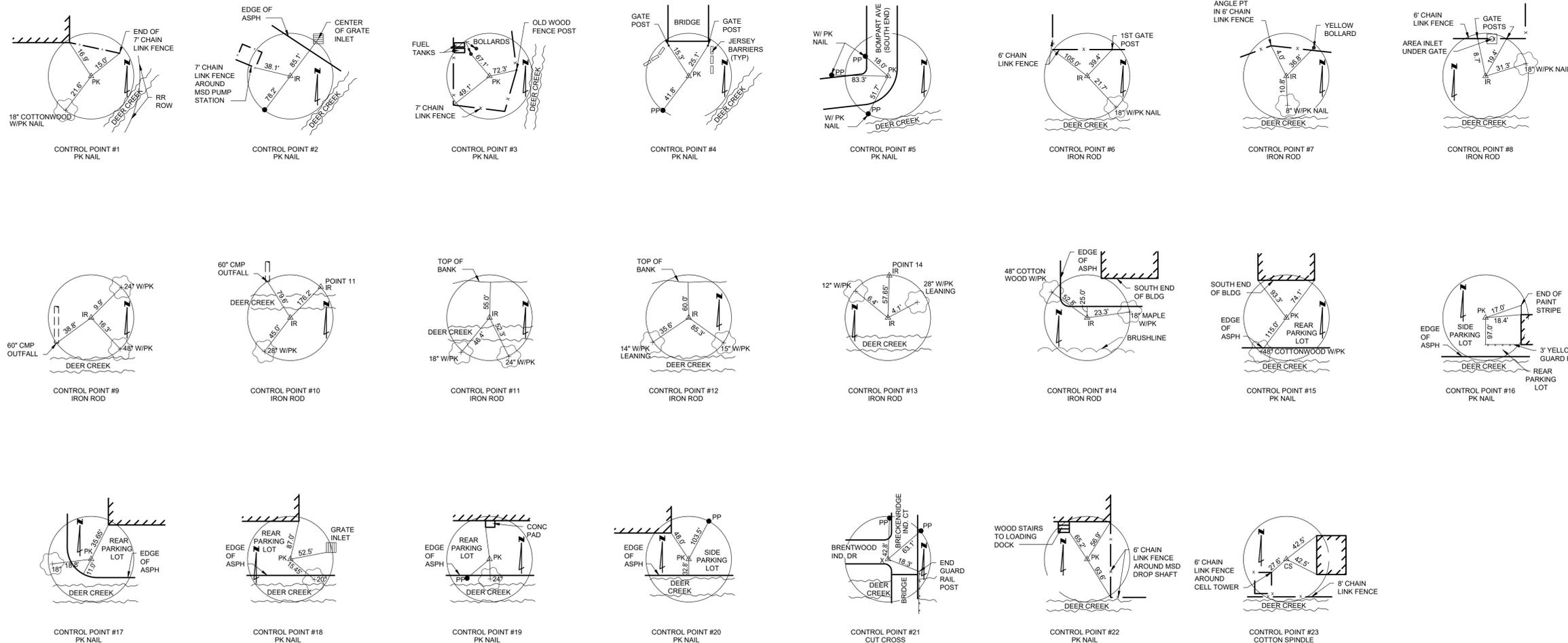
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	KS
DRAWN:	KS
CHECKED:	SK
HS_JOB NO.	1815600
JACOBS_JOB NO.	707841CH
SHEET	3 OF 92

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
SURVEY TIES

REFERENCE TIE POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	447.42	1010582.07	864003.13	PK NAIL
2	447.24	1010866.82	864080.99	PK NAIL
3	451.10	1010964.31	864224.29	PK NAIL
4	443.67	1011147.45	864441.43	PK NAIL
5	442.68	1011234.83	864620.29	PK NAIL
6	447.14	1011286.84	864751.64	IRON ROD
7	446.93	1011346.53	864907.61	IRON ROD
8	446.31	1011365.27	865057.97	IRON ROD
9	442.98	1011249.76	865055.02	IRON ROD
10	430.65	1011131.81	865046.87	IRON ROD
11	428.73	1010993.12	865155.52	IRON ROD
12	428.79	1010925.21	865392.15	IRON ROD
13	439.83	1010961.89	865481.32	IRON ROD
14	446.78	1011016.15	865500.84	IRON ROD
15	441.97	1011086.12	865678.86	PK NAIL
16	447.89	1011048.80	865830.57	PK NAIL
17	446.21	1010915.18	865843.75	PK NAIL
18	446.02	1010835.55	866175.67	PK NAIL
19	447.84	1011011.92	866449.07	PK NAIL
20	446.86	1011060.91	866701.17	PK NAIL
21	441.92	1011120.00	866963.07	CROSS
22	439.94	1011210.74	867233.87	PK NAIL
23	444.09	1011282.37	867412.97	COTTON SPINDLE



Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006091845
EXPIRATION DATE: DECEMBER 31, 2020

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NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

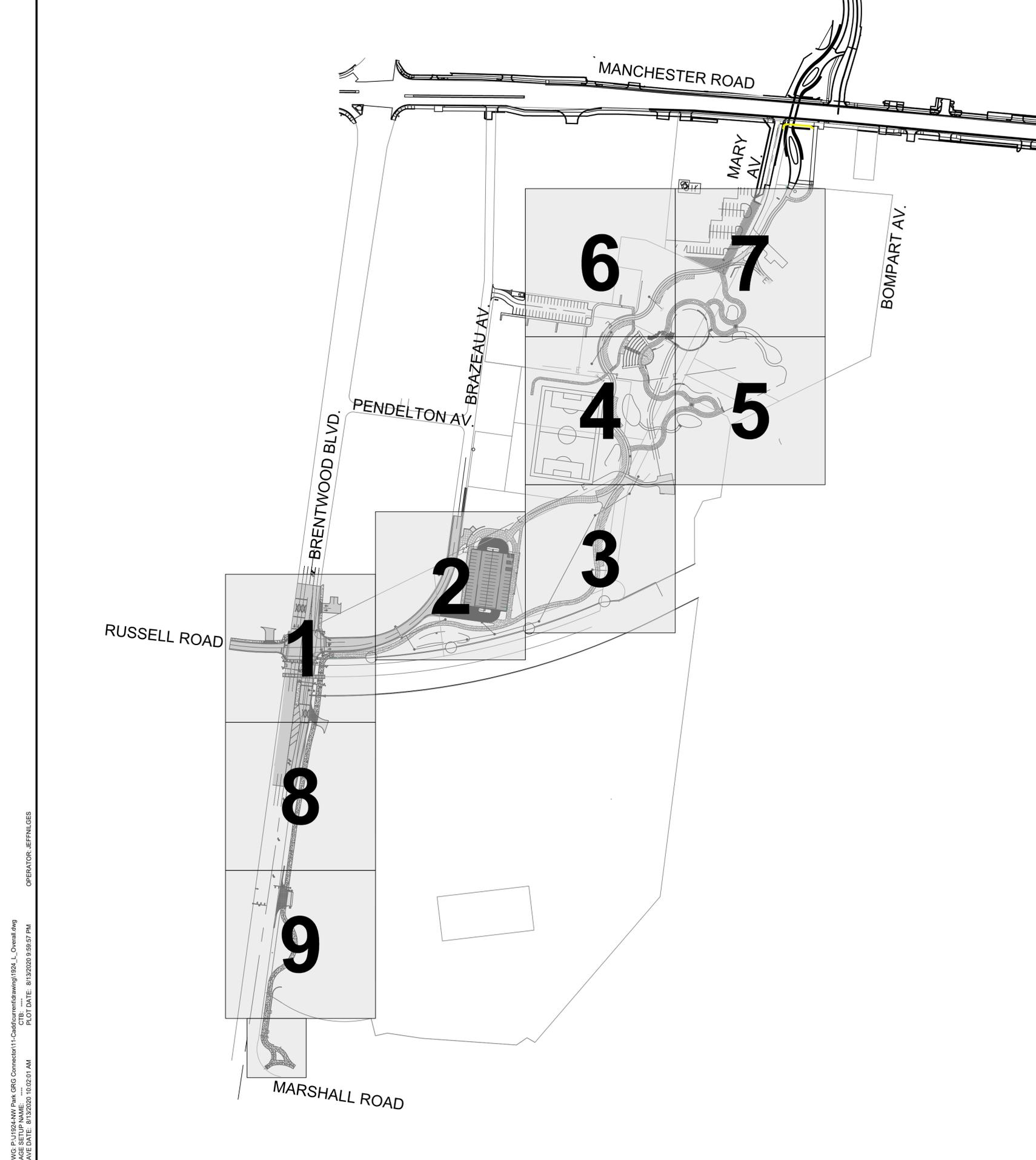
DATE: 14 AUGUST 2020

DESIGNED: KS
DRAWN: KS
CHECKED: SK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 4 OF 92

S-001



DEMOLITION NOTES

1. SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
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6. COORDINATE UTILITY SHUTDOWN AND SEQUENCE OF DEMOLITION AND CONSTRUCTION WITH UTILITY OWNER.



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 OVERALL
 EXISTING CONDITIONS - DEMOLITION PLAN

Jacobs

JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
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401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
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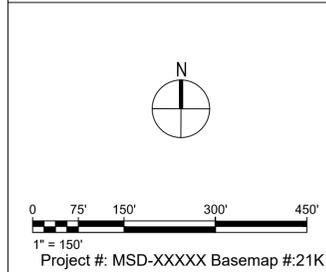
P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

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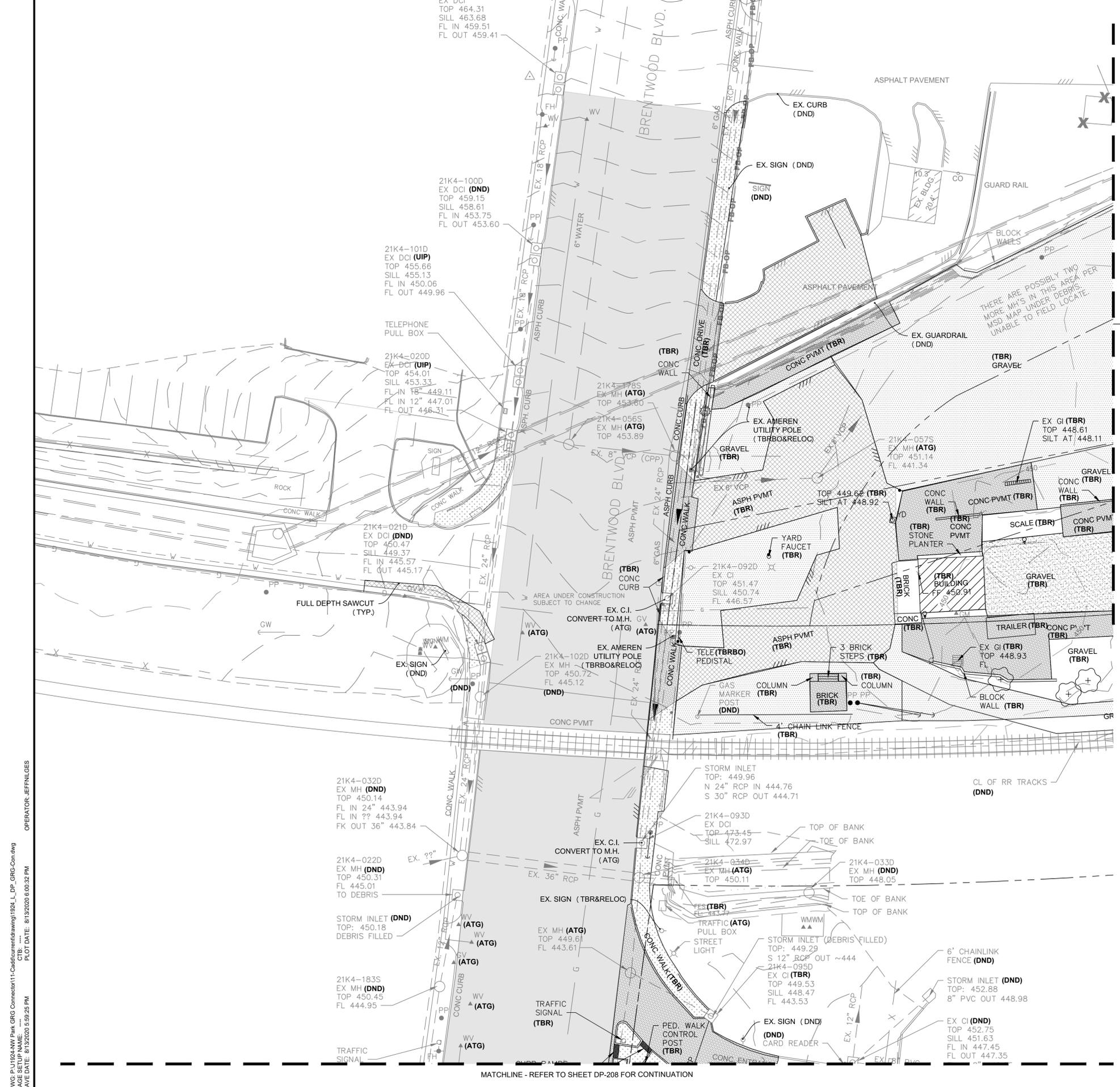
**PRELIMINARY
NOT FOR
CONSTRUCTION**

SCALES



NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	5 OF 92
DP-101	

DWG: P:\11924\NY Park GRG Connector\11-Cadd\current\drawing\11924_L_Overall.dwg
 SAVE DATE: 8/13/2020 10:02:01 AM
 PLOT DATE: 8/13/2020 9:59:57 PM
 OPERATOR: JEFFNILGES



DEMOLITION PLAN NOTES

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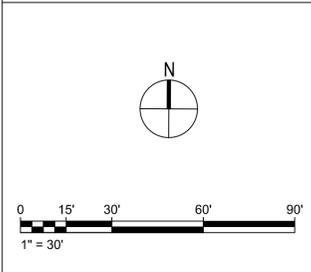
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	///////
LIMITS OF GRG DEMO.	■■■■■■■■
EXISTING CONTOURS	—450—
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Dotted Pattern]
GRAVEL REMOVAL	[Diagonal Line Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

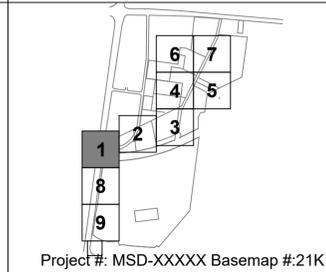
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN

EXISTING CONDITIONS/DEMOLITION PLAN
BRENTWOOD BOULEVARD/NORM WEST PARK

Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
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PDS
Planning Design Studio
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
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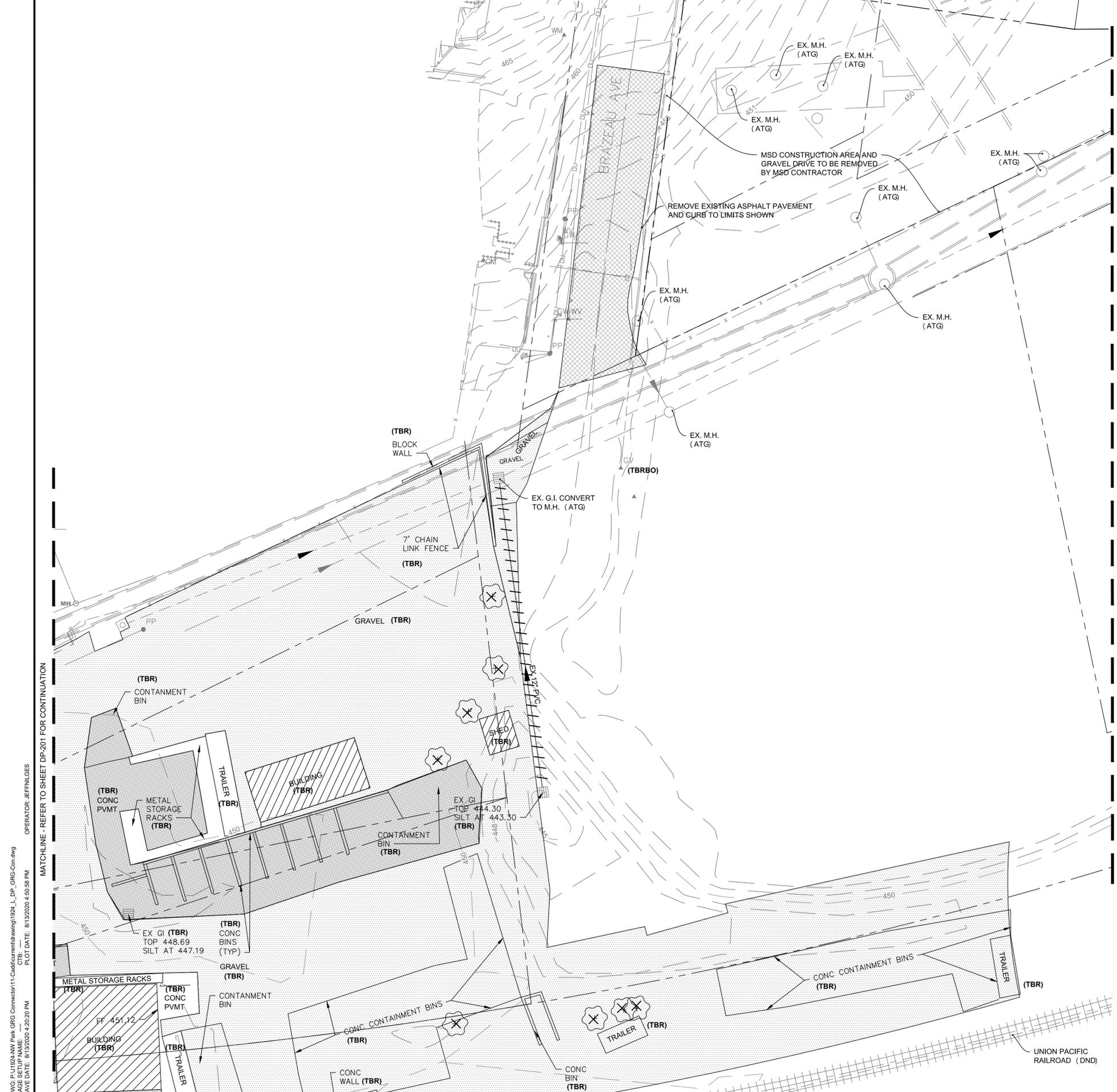
NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	6 OF 92

DP-201

DWG: P:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_DP_GRG-Con.dwg
OPERATOR: JEFFNILES
PLOT DATE: 8/13/2020 6:00:32 PM
SAVE DATE: 8/13/2020 5:59:25 PM

MATCHLINE - REFER TO SHEET DP-208 FOR CONTINUATION

MATCHLINE - REFER TO SHEET DP-202 FOR CONTINUATION



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
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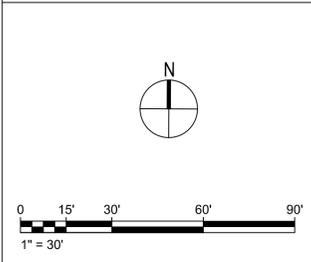
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	-----
EXISTING CONTOURS	-----450-----
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

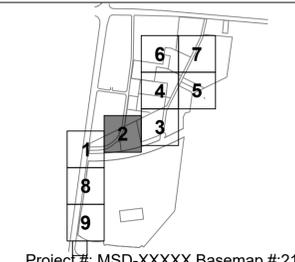
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
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**PRELIMINARY
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CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	7 OF 92

DP-202

DWG: P:\1924\NW Park GRG Connector\11-Cadd\cadd\drawing\1924_L_DP_GRG-Con.dwg
 OPERATOR: JEFFNILGES
 PLOT DATE: 8/13/2020 4:50:58 PM
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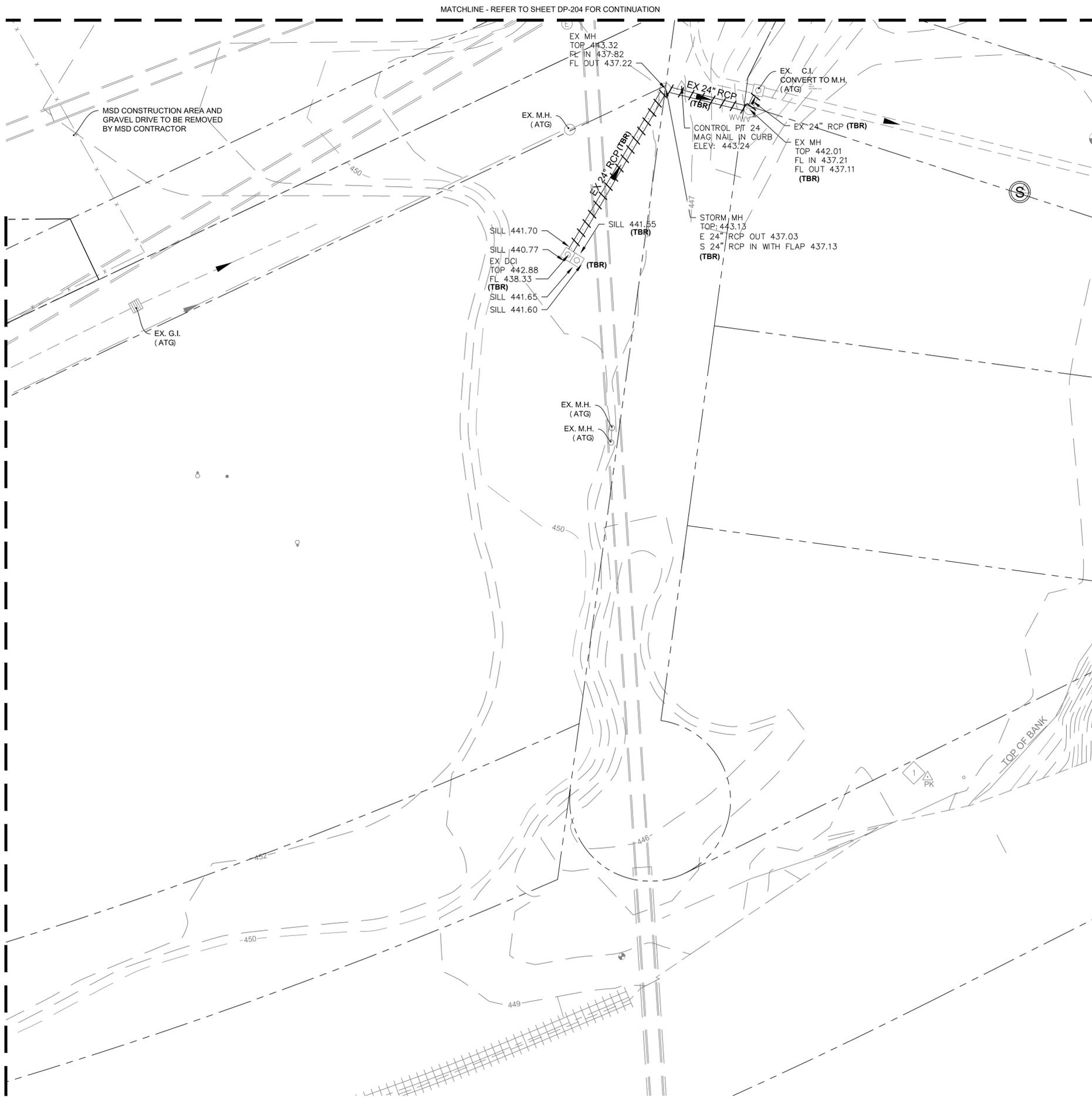
MATCHLINE - REFER TO SHEET DP-201 FOR CONTINUATION

MATCHLINE - REFER TO SHEET DP-203 FOR CONTINUATION

Project #: MSD-XXXXX Basemap #21K

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 PLOT DATE: 8/13/2020 9:58:21 PM
 OPERATOR: JEFFNILES

MATCHLINE - REFER TO SHEET DP-202 FOR CONTINUATION



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
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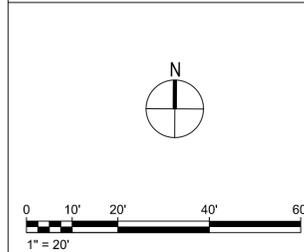
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	---
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	■■■■■■
EXISTING CONTOURS	—450—
REMOVE TREE	×
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
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TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
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HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
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PDS
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 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

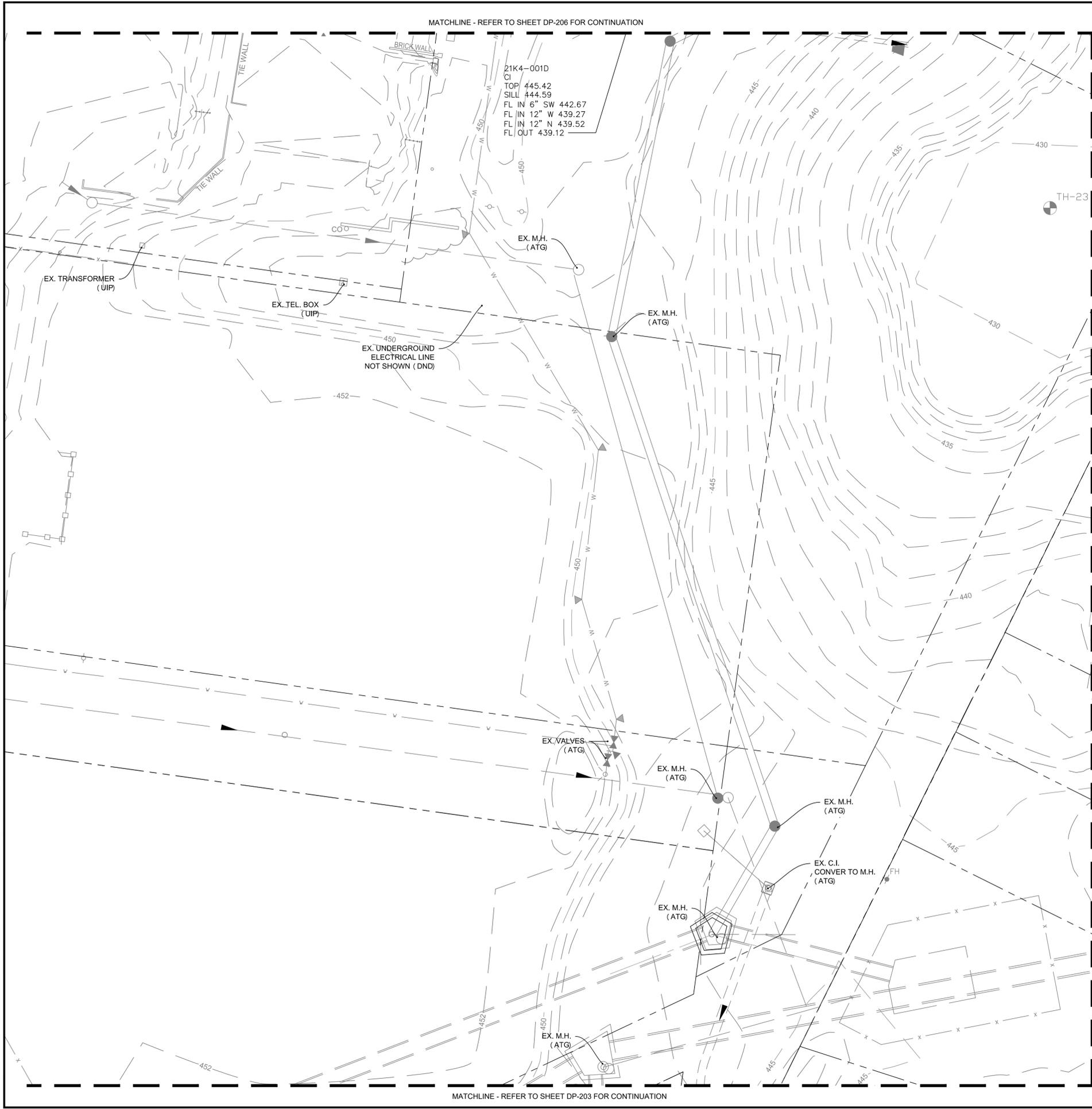
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PRELIMINARY NOT FOR CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO. -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKIE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 8 OF 92

DP-203

DWG: P:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_DP_GRG-Con.dwg
 SAVE DATE: 8/13/2020 4:20:20 PM
 PLOT DATE: 8/13/2020 4:49:53 PM
 OPERATOR: JEFFNILES



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
- 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 DAMAGE THERETO. DIG RITE TO BE CONTACTED TO LOCATE PUBLIC UTILITIES.
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- CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN APPROVED BY THE CITY OF BRENTWOOD PRIOR TO DEMOLITION IN THE RIGHT OF WAY.
- COORDINATE UTILITY SHUTDOWN AND SEQUENCE OF DEMOLITION AND CONSTRUCTION WITH UTILITY OWNER.

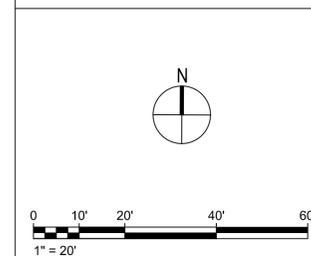
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	■■■■■■
EXISTING CONTOURS	—450—
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

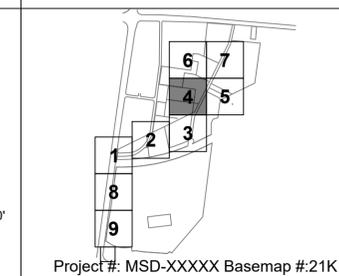
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK



JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020



P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

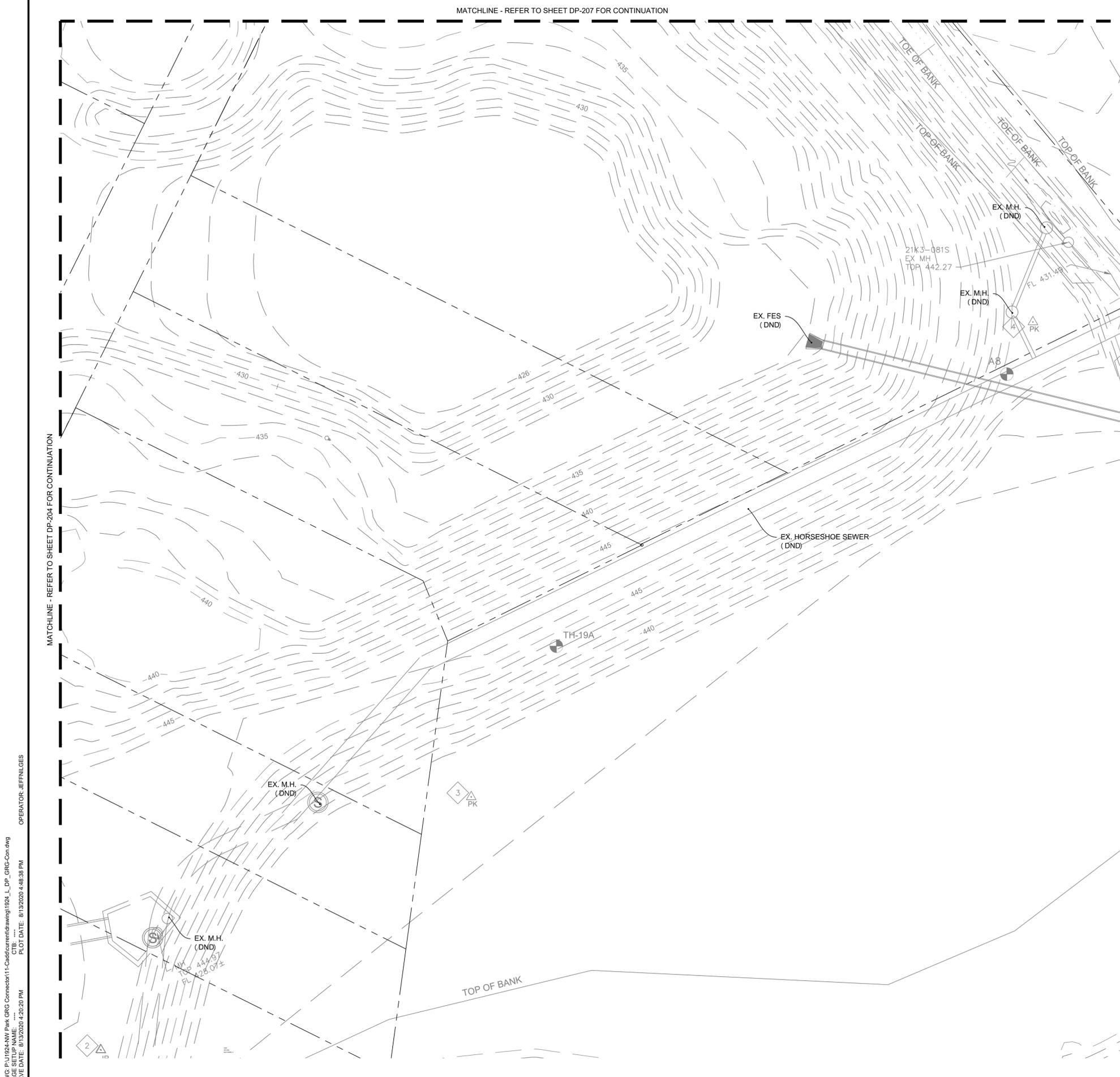
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PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKIE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 9 OF 92

DP-204



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
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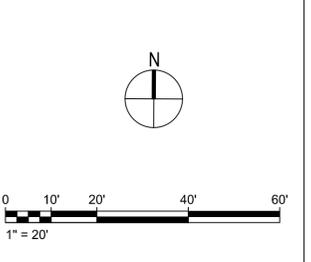
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	■■■■■■
EXISTING CONTOURS	—450—
REMOVE TREE	×
CONCRETE PAVEMENT REMOVAL	[Stippled pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched pattern]
MILL REMOVAL	[Solid grey pattern]
GRAVEL REMOVAL	[Dotted pattern]
SIDEWALK REMOVAL	[Diagonal line pattern]

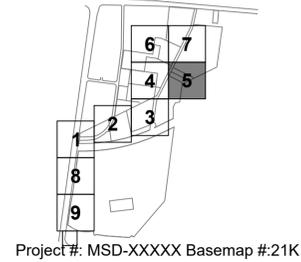
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PANNINGDESIGNSTUDIO.COM
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 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

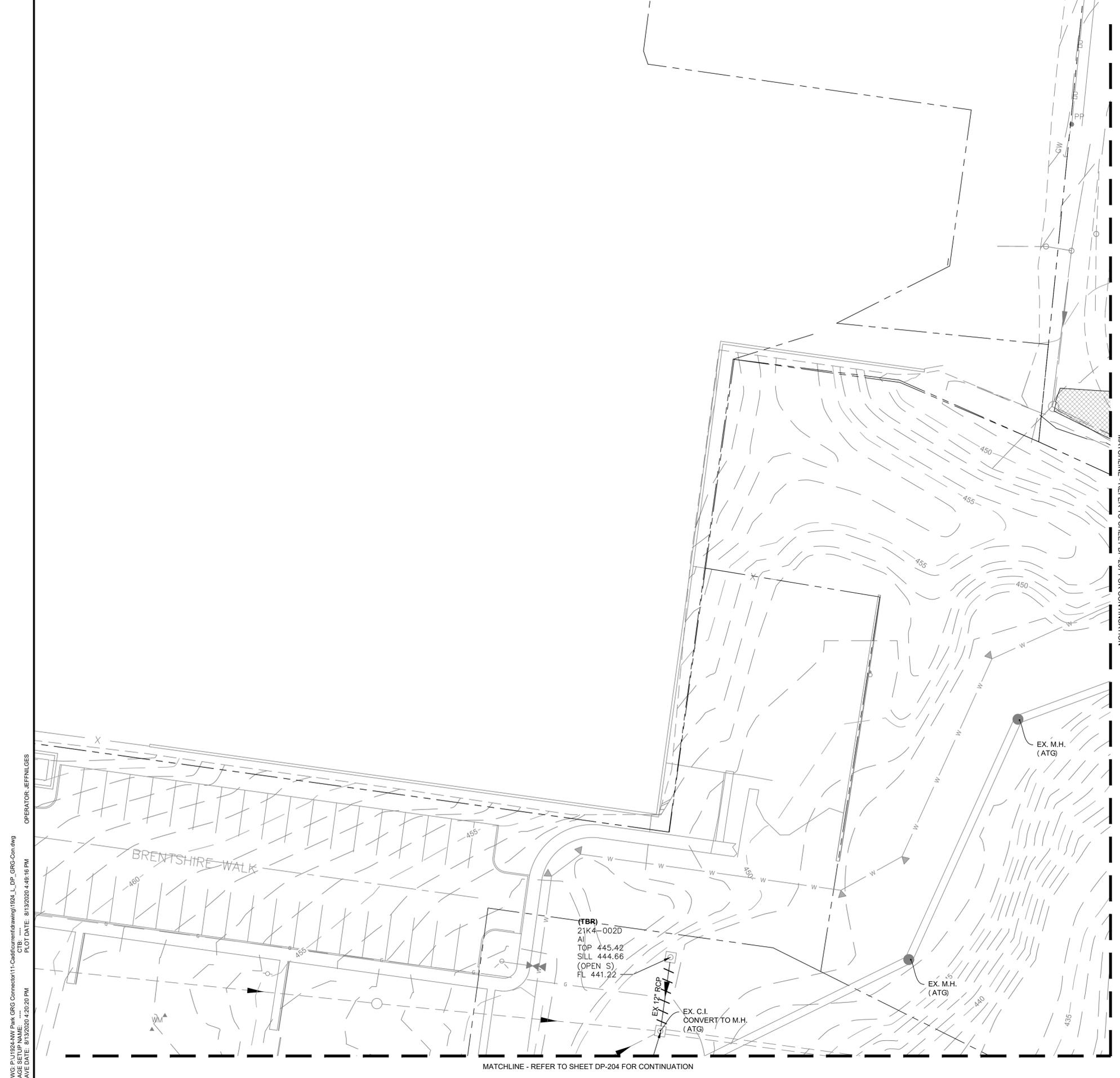
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PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKKE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 10 OF 92

DP-205

DWG: F:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_DP_GRG-Con.dwg
 SAVE DATE: 8/13/2020 4:20:20 PM PLOT DATE: 8/13/2020 4:48:38 PM OPERATOR: JEFFNILGES



DEMOLITION PLAN NOTES

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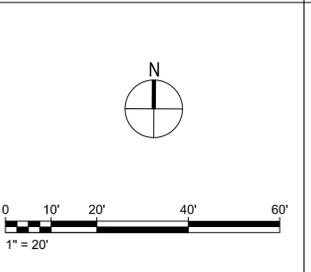
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	-----
EXISTING CONTOURS	---450---
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

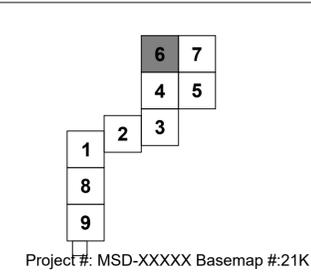
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

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 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
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PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	11 OF 92

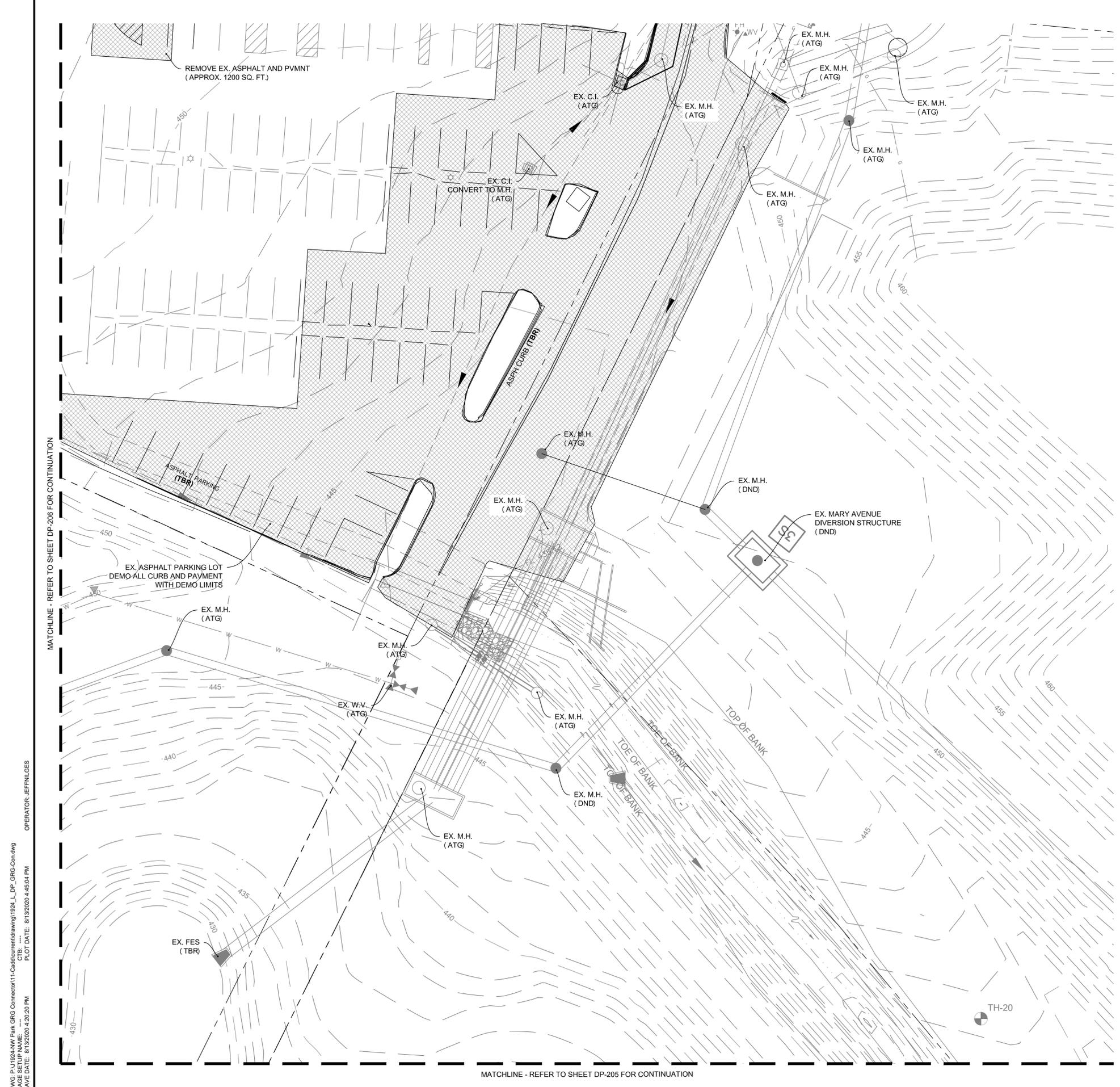
DP-206

Project #: MSD-XXXXX Basemap #21K

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 OPERATOR: JEFFNILGES
 SAVE DATE: 8/13/2020 4:20:20 PM

MATCHLINE - REFER TO SHEET DP-204 FOR CONTINUATION

MATCHLINE - REFER TO SHEET DP-207 FOR CONTINUATION



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
- 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 DAMAGE THERETO. DIG RITE TO BE CONTACTED TO LOCATE PUBLIC UTILITIES.
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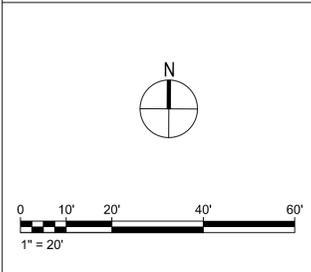
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	-----
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	-----
EXISTING CONTOURS	-----450-----
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

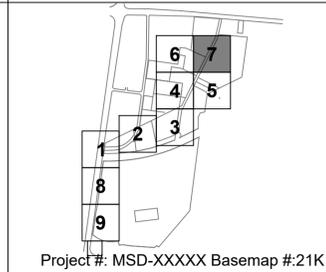
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
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PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
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 CERTIFICATE OF AUTHORITY: LAC-2006001845
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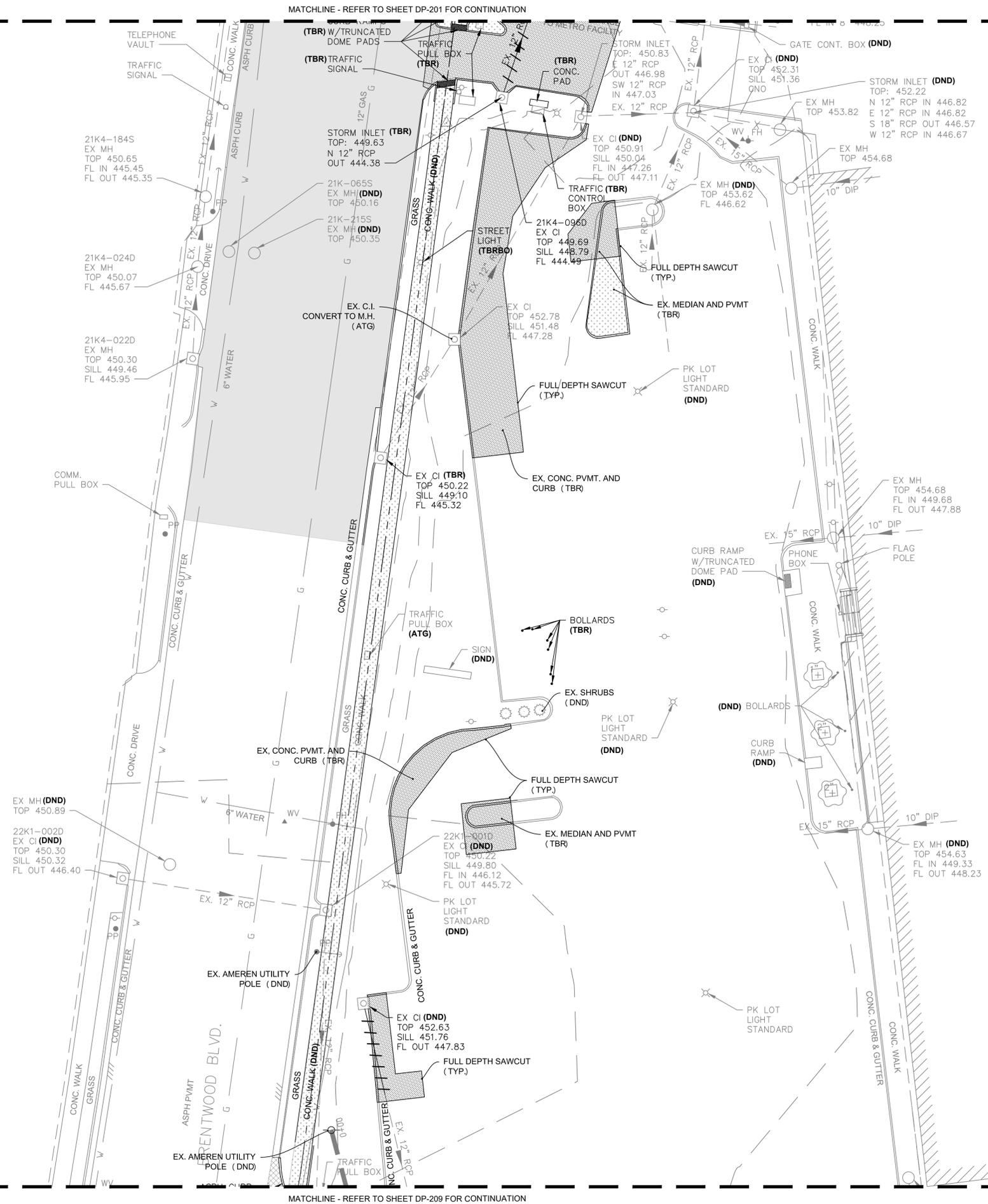
**PRELIMINARY
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NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	12 OF 92

DP-207

DWG: P:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_DP_GRG-Con.dwg
 PLOT DATE: 8/13/2020 4:20:20 PM
 SAVE DATE: 8/13/2020 4:20:20 PM
 OPERATOR: JEFFNILGES

DWG: P:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_DP_GRG-Con.dwg
 SAVE DATE: 8/13/2020 4:20:20 PM
 PLOT DATE: 8/13/2020 5:32:06 PM
 OPERATOR: JEFFNIGLES



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
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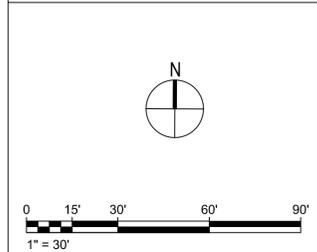
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	■■■■■■■■
EXISTING CONTOURS	—450—
REMOVE TREE	×
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

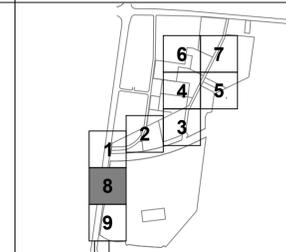
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 BRENTWOOD BOULEVARD

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
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PDS
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DRAWN:	H. BROWN
CHECKED:	A. FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	13 OF 92

DP-208

Project #: MSD-XXXXX Basemap #21K

DWG: P:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_DP_GRG-Con.dwg
 PLOT DATE: 8/13/2020 5:18:21 PM
 SAVE DATE: 8/13/2020 4:20:20 PM
 OPERATOR: JEFFNIGLES



DEMOLITION PLAN NOTES

- SEE SHEET G-002 FOR ADDITIONAL NOTES AND LEGEND.
- 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 DAMAGE THERETO. DIG RITE TO BE CONTACTED TO LOCATE PUBLIC UTILITIES.
- STORM AND SANITARY SEWERS, IF ABANDONED OR REMOVED, SHALL BE DONE SO IN ACCORDANCE WITH MSD'S STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, LATEST EDITION.
- CONTRACTOR TO PROTECT TREES THAT ARE TO REMAIN. INSTALL TEMPORARY FENCING AROUND AREAS THAT HAVE TREES TO REMAIN PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN APPROVED BY THE CITY OF BRENTWOOD PRIOR TO DEMOLITION IN THE RIGHT OF WAY.
- COORDINATE UTILITY SHUTDOWN AND SEQUENCE OF DEMOLITION AND CONSTRUCTION WITH UTILITY OWNER.

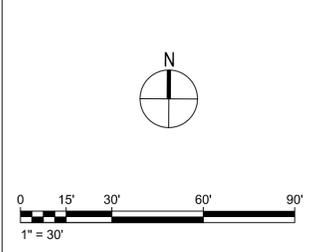
DEMOLITION PLAN LEGEND

DESCRIPTION	SYMBOL
PROPERTY LINE	-----
EASEMENT	- - - - -
LINEAR ITEM TO BE REMOVED	//////
LIMITS OF GRG DEMO.	=====
EXISTING CONTOURS	---450---
REMOVE TREE	X
CONCRETE PAVEMENT REMOVAL	[Hatched Pattern]
ASPHALT PAVEMENT REMOVAL	[Cross-hatched Pattern]
MILL REMOVAL	[Solid Grey]
GRAVEL REMOVAL	[Dotted Pattern]
SIDEWALK REMOVAL	[Stippled Pattern]

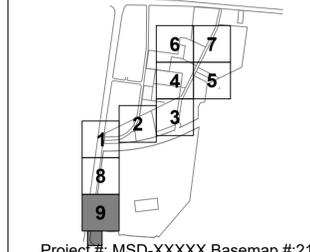
DEMOLITION PLAN LEGEND

ADJUST TO GRADE	(ATG)
ARBORIST TREE PROTECTION	(ATP)
DO NOT DISTURB	(DND)
TO BE ABANDONED	(TBA)
TO BE ABANDONED AND FILLED	(TBA&F)
TO BE REMOVED	(TBR)
TO BE REMOVED BY OTHERS	(TBRBO)
UTILIZE IN PLACE	(UIP)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 EXISTING CONDITIONS/DEMOLITION PLAN
 BRENTWOOD BOULEVARD

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEER
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

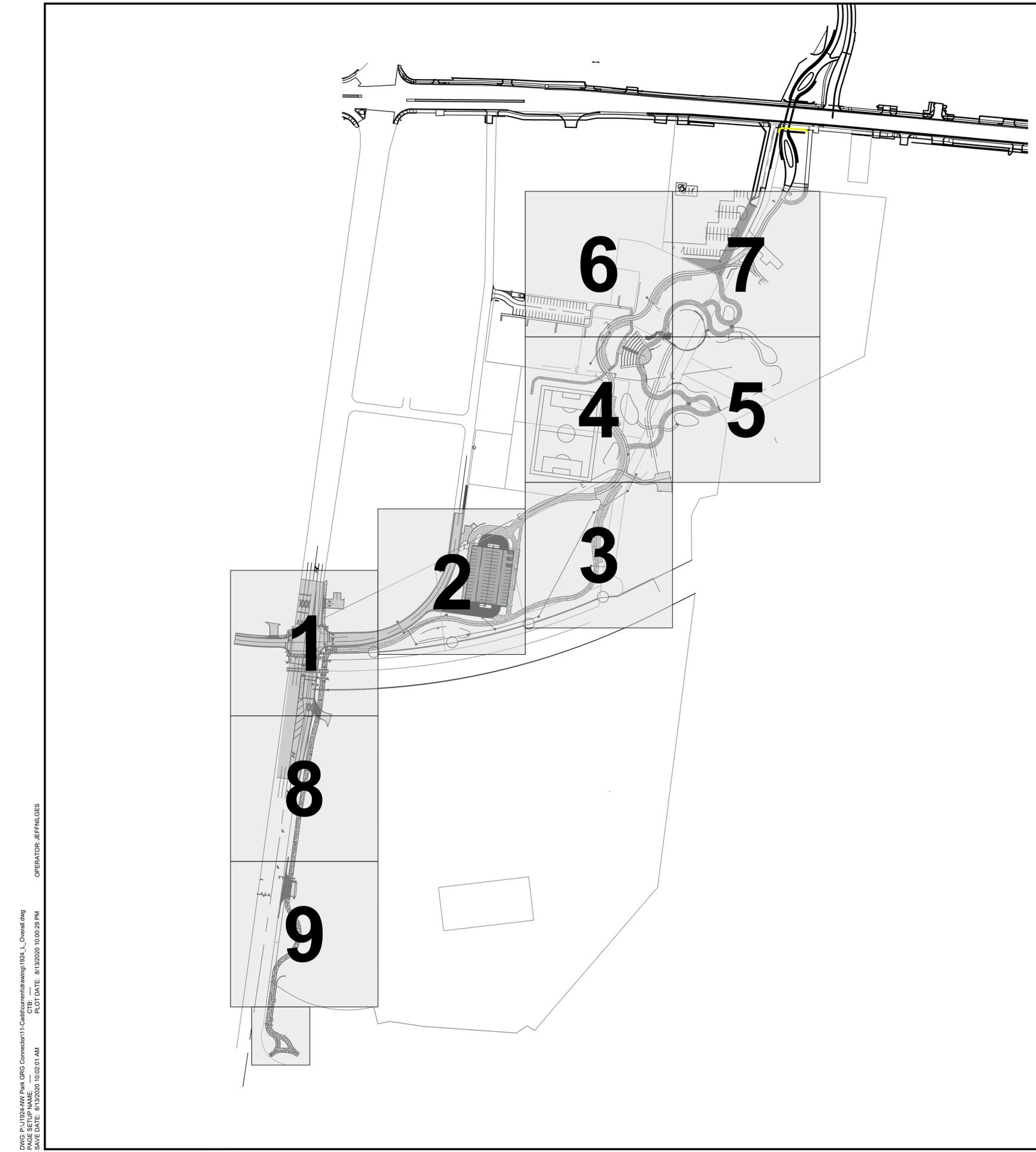
THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

PRELIMINARY NOT FOR CONSTRUCTION

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	14 OF 92

DP-209

Project #: MSD-XXXXX Basemap #21K



SITE PLAN NOTES

1. REFER TO PLAN/PROFILE SHEETS (PP-101 TO PP-106) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR BRENTWOOD BOULEVARD, RUSSEL AVENUE, BRAZEAU AVENUE EXTENSION, AND MARY AVENUE.
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 OVERALL
SITE PLAN



JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
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401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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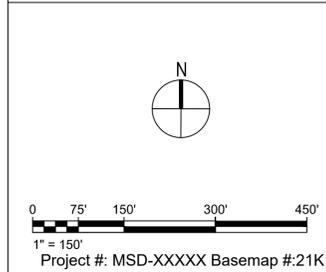
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
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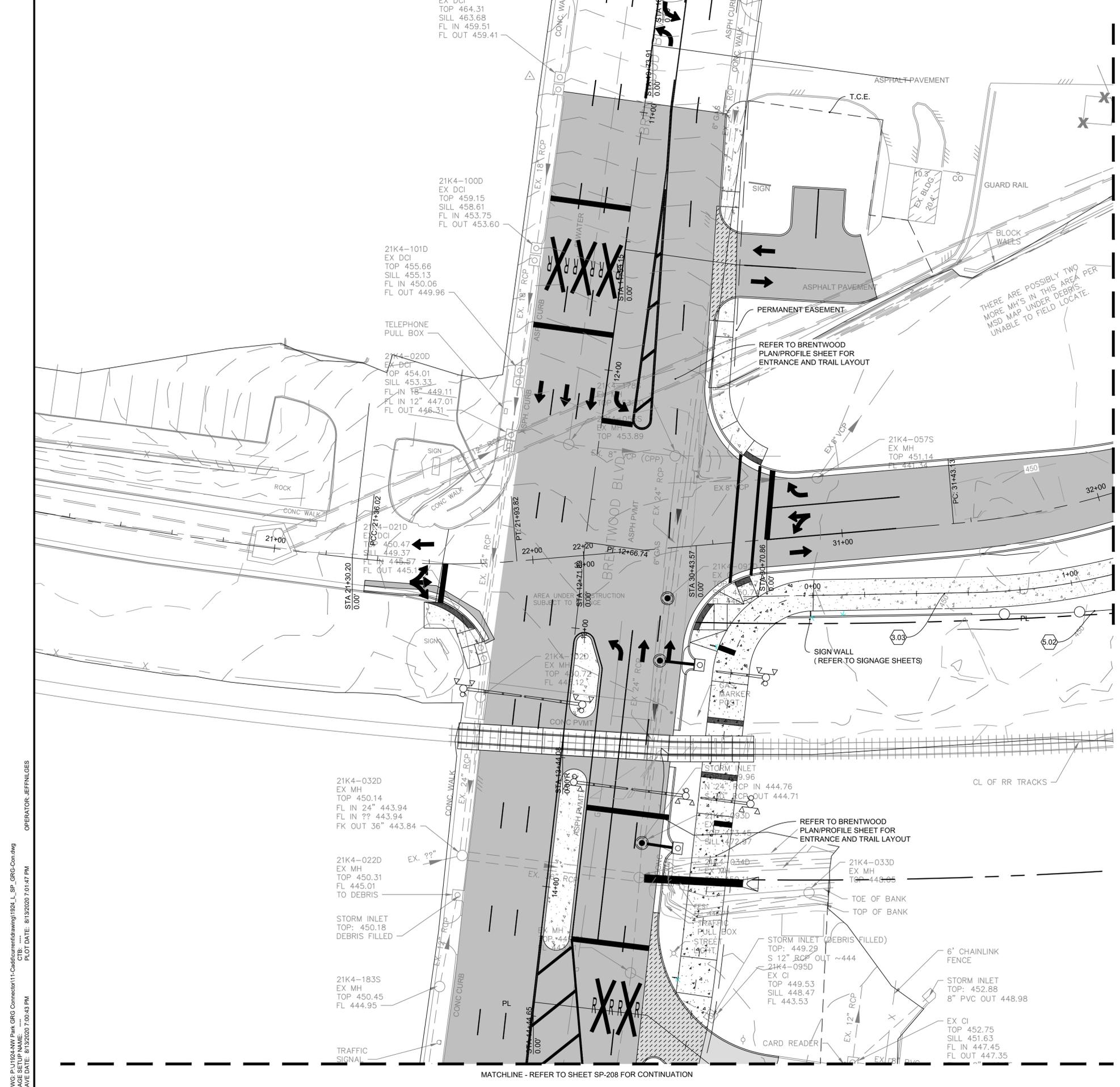
**PRELIMINARY
NOT FOR
CONSTRUCTION**

SCALES



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DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET	15 OF 92
SP-101	

DWG: P:\11924\NY Park GRG Connector\11-Cad\current\drawing\1924_L_Overall.dwg
 PLOT DATE: 8/13/2020 10:02:01 AM
 OPERATOR: JEFFNILGES
 SAVE DATE: 8/13/2020 10:00:29 PM



SITE PLAN NOTES

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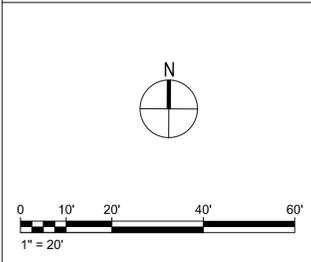
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	3.01	(RT1) CON. RET. WALL - DTL X, SHT X	4.01
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	3.07	(FN3) FENCE - CABLE - TYPE 2 - DTL X, SHT X	5.03
(CC1) CON. CURB - TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

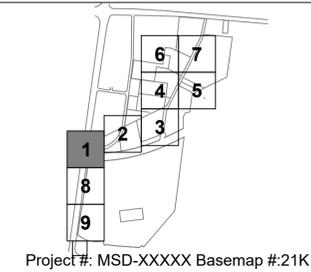
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 BRENTWOOD BOULEVARD/NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
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PDS
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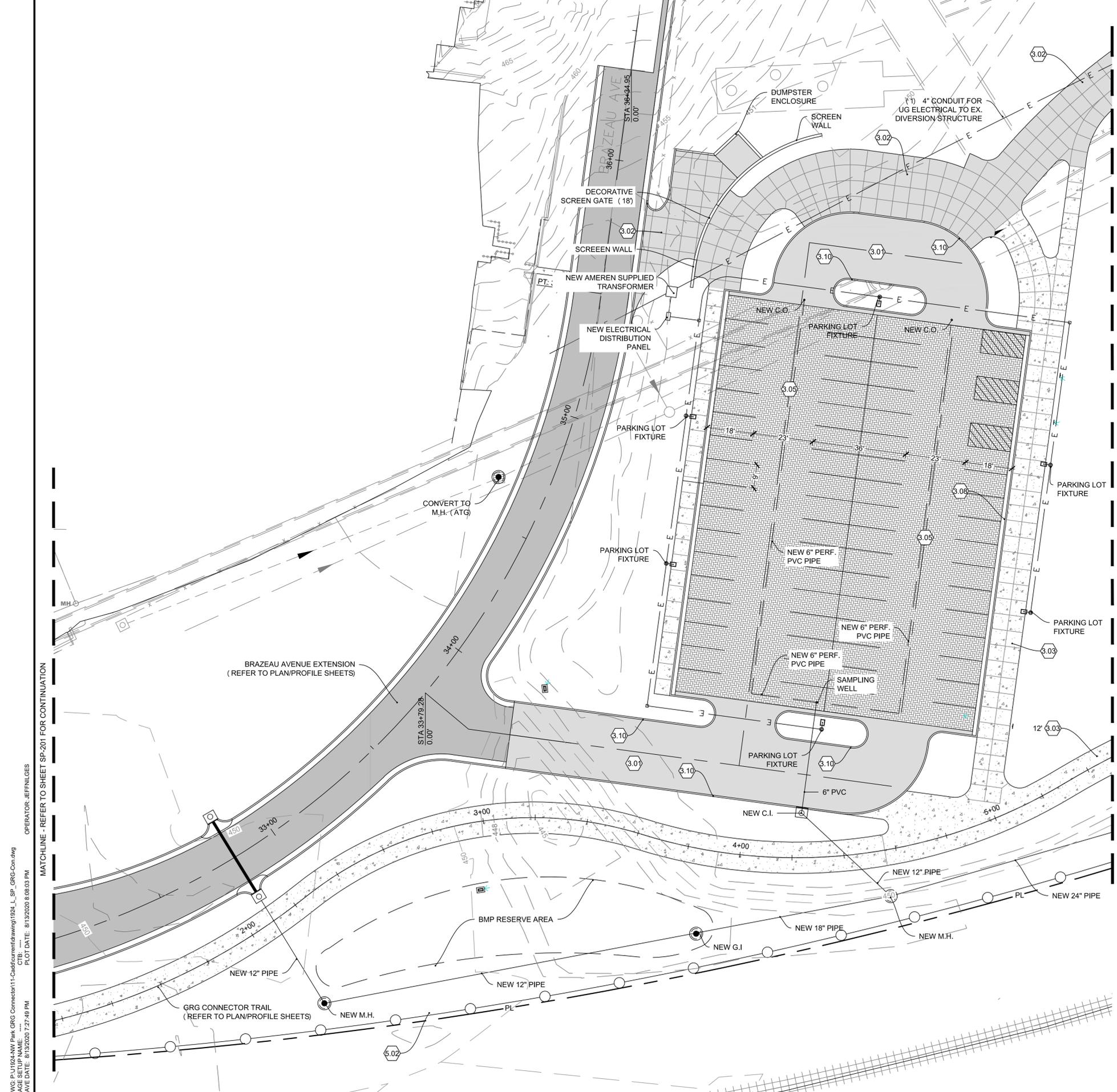
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PRELIMINARY
NOT FOR CONSTRUCTION

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	16 OF 92

SP-201

DWG: P:\1024\N\Proj\GRG Connector\11-Cad\current\drawing\1024_L_SP_GRG-Con.dwg
 OPERATOR: JEFFNULGES
 PLOT DATE: 8/13/2020 7:01:47 PM
 SAVE DATE: 8/13/2020 7:00:43 PM



SITE PLAN NOTES

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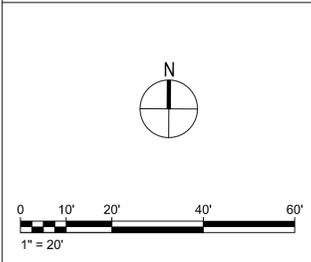
KEYED NOTES

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(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
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(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
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		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

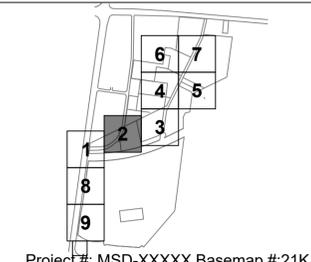
MATERIALS LEGEND

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ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
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PDS
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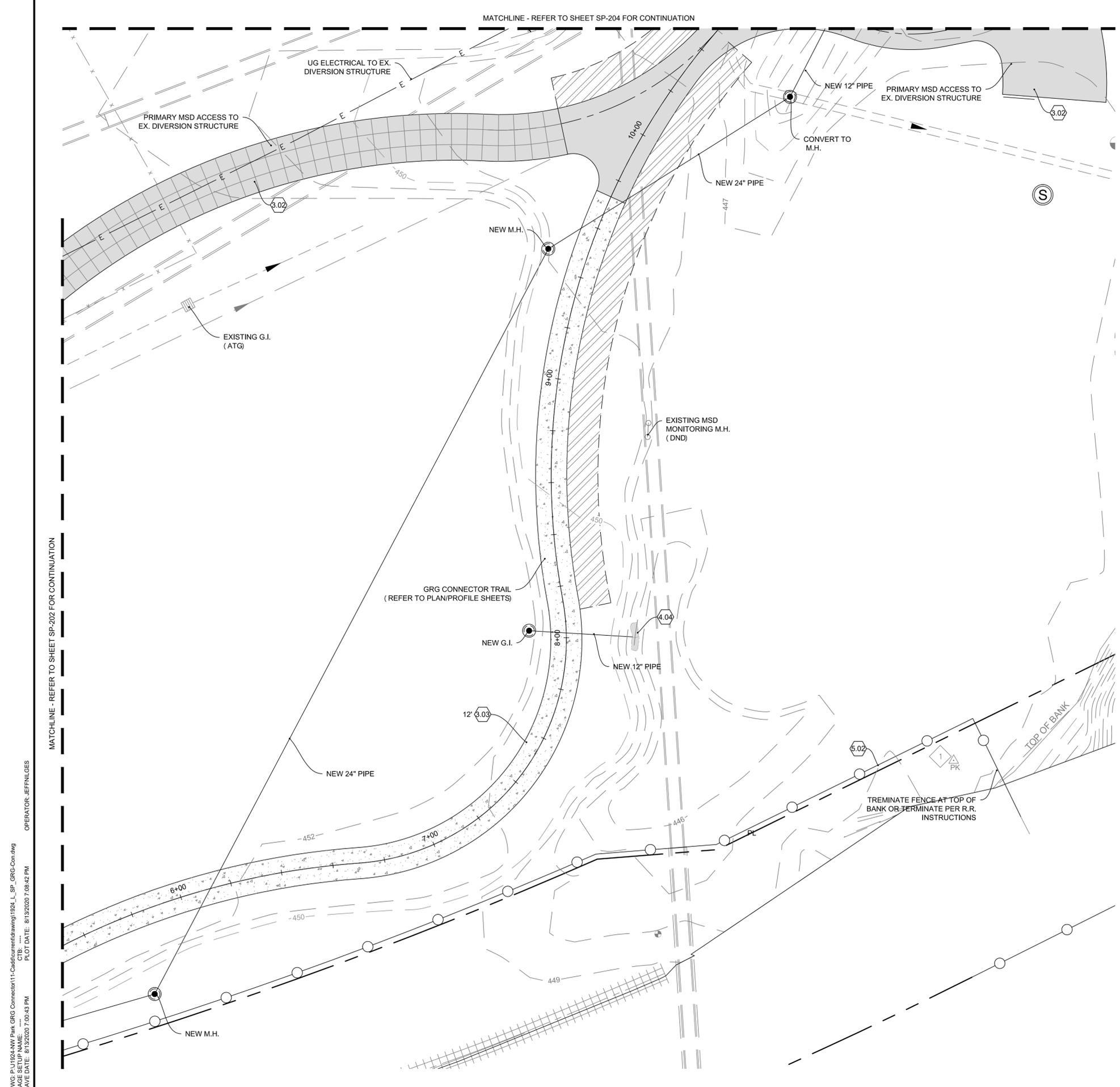
NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	17 OF 92

SP-202

DWG: P:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_SP_GRG-Con.dwg
 OPERATOR: JEFFNILGES
 PLOT DATE: 8/13/2020 8:08:03 PM
 SAVE DATE: 8/13/2020 7:27:49 PM

MATCHLINE - REFER TO SHEET SP-201 FOR CONTINUATION

MATCHLINE - REFER TO SHEET SP-203 FOR CONTINUATION



SITE PLAN NOTES

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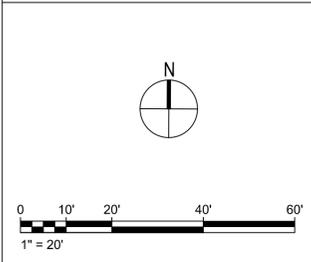
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(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
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(MP1) MOD. CON. PAVERS - VEH, PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	3.07	(FN3) FENCE - CABLE - TYPE 2 - DTL X, SHT X	5.03
(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

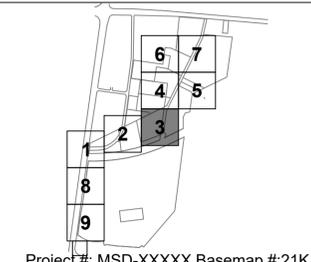
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

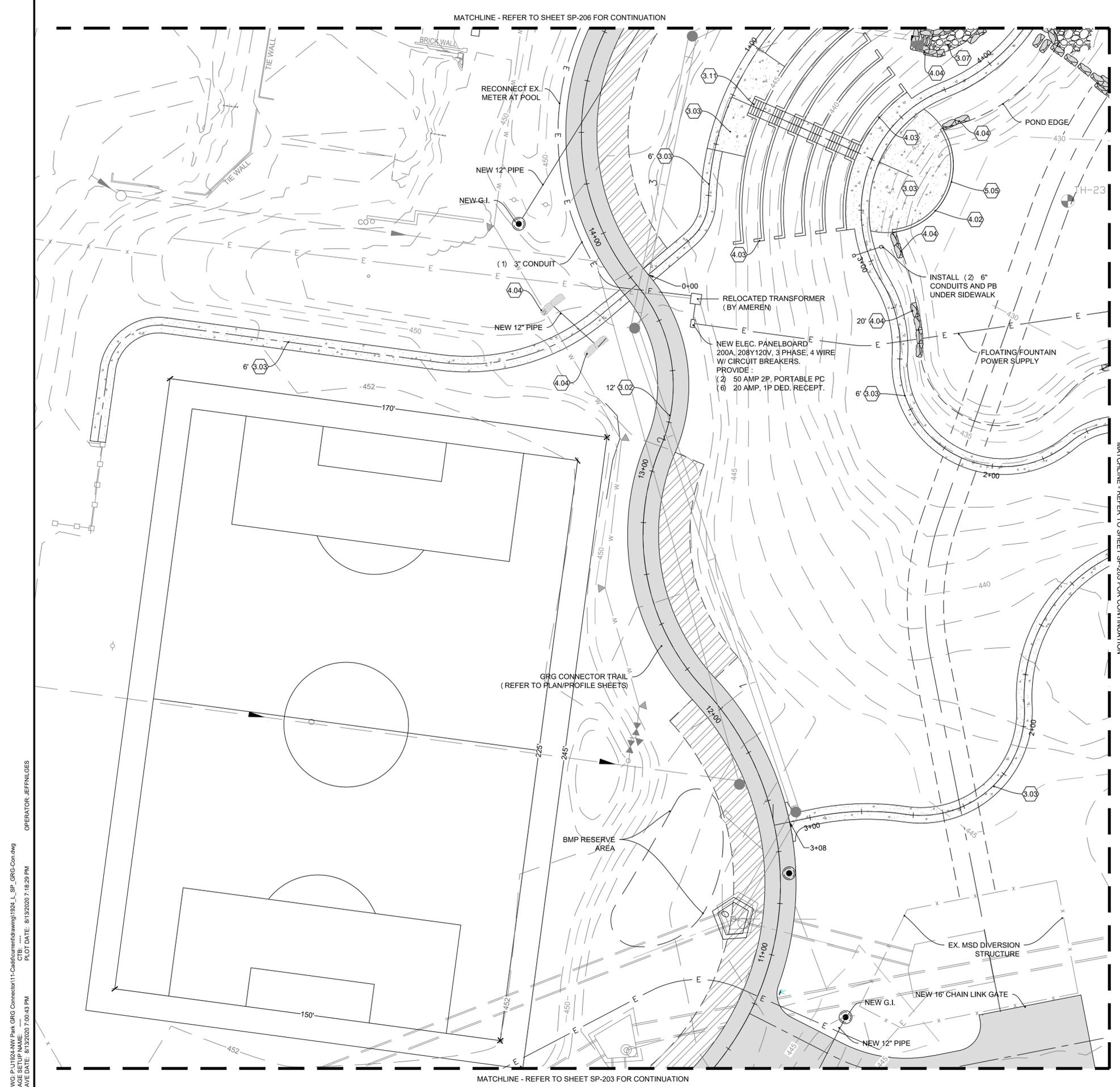
NO.	DATE	REVISION

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	18 OF 92

SP-203

DWG: F:\11924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_SP_GRG-Con.dwg
 OPERATOR: JEFFNILGES
 PLOT DATE: 8/13/2020 7:08:42 PM
 SAVE DATE: 8/13/2020 7:04:43 PM



SITE PLAN NOTES

- REFER TO PLAN/PROFILE SHEETS (PP-101 TO PP-106) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR BRENTWOOD BOULEVARD, RUSSEL AVENUE, BRAZEAU AVENUE EXTENSION, AND MARY AVENUE.
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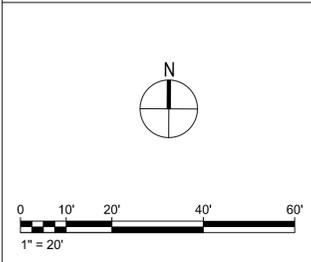
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	3.01	(RT1) CON. RET. WALL - DTL X, SHT X	4.01
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
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(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

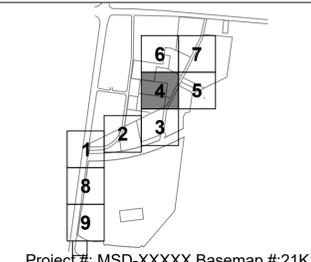
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
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CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

PRELIMINARY
NOT FOR CONSTRUCTION

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	19 OF 92

SP-204

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 SAVE DATE: 8/13/2020 7:04:43 PM

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 PLOT DATE: 8/13/2020 7:12:11 PM
 OPERATOR: JEFFNULGES



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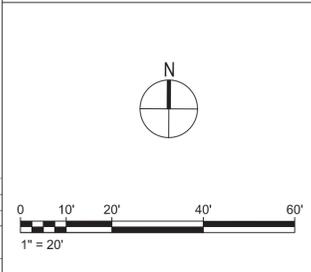
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	3.01	(RT1) CON. RET. WALL - DTL X, SHT X	4.01
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
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(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
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(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
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		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

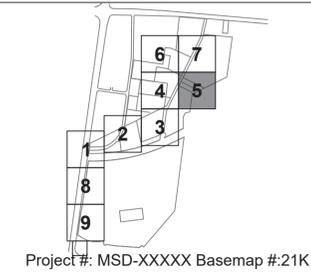
MATERIALS LEGEND

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CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	20 OF 92
SP-205	



SITE PLAN NOTES

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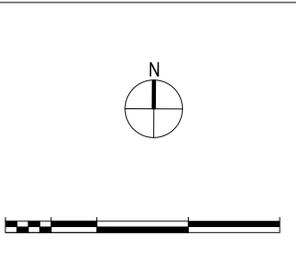
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(CC3) CON. CURB - INTEGRAL DTL X, SHT X	3.10	(SF1) BENCH (OPCI) DTL X, SHT X	6.01
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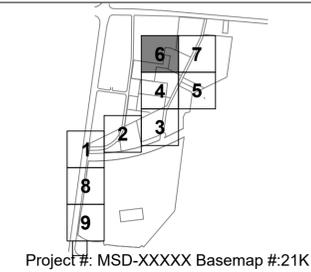
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
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PAVERS - PERMEABLE	[Symbol]		
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SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
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 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
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 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PANNINGDESIGNSTUDIO.COM
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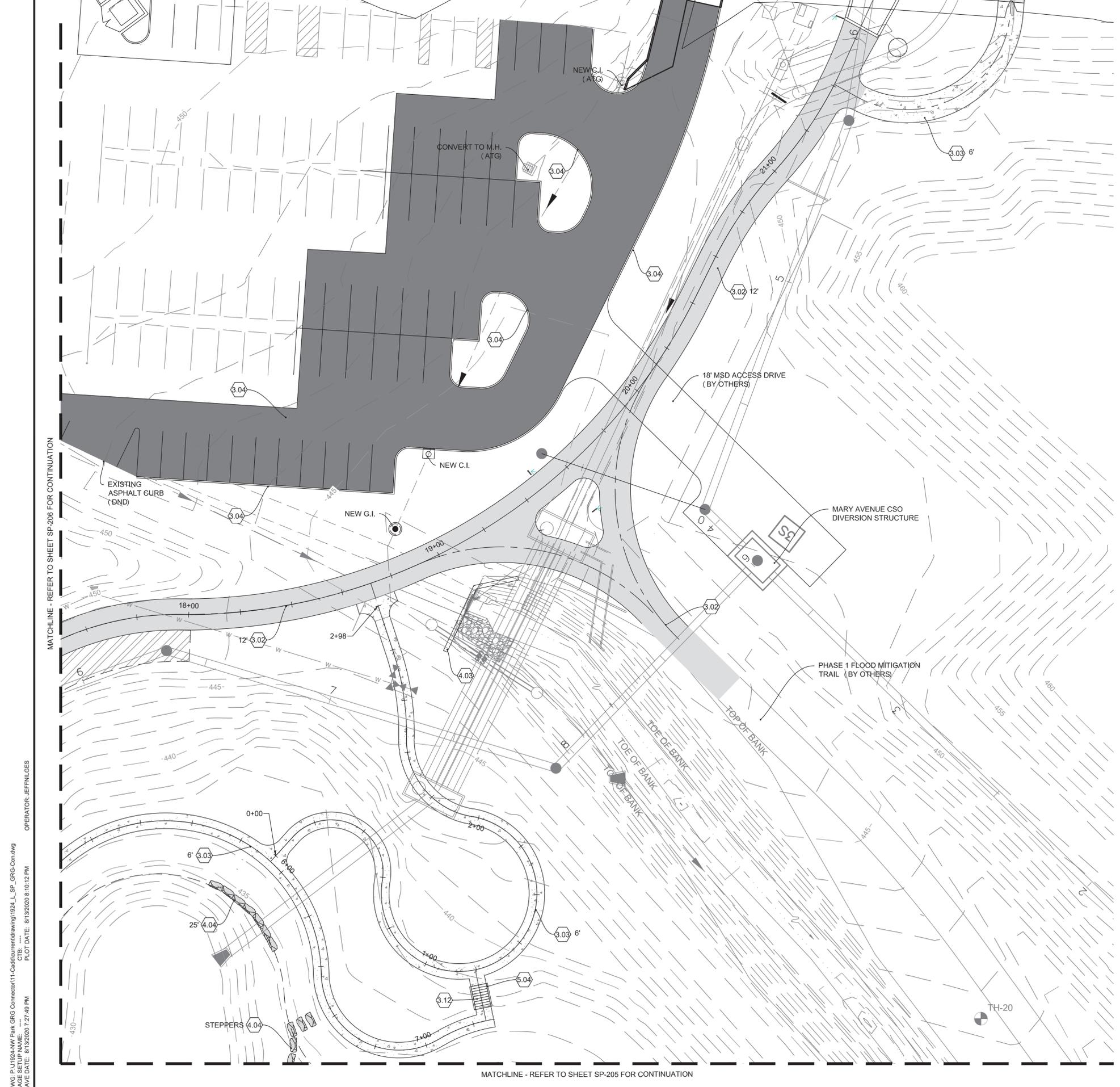
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**PRELIMINARY
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NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	21 OF 92

SP-206

DWG: P:\1024\NW Park GRG Connector\11-Cadd\cadd\drawing\1024_L_SP_GRG-Con.dwg
 OPERATOR: JEFFNULGES
 PLOT DATE: 8/13/2020 7:16:52 PM
 SAVE DATE: 8/13/2020 7:00:43 PM



SITE PLAN NOTES

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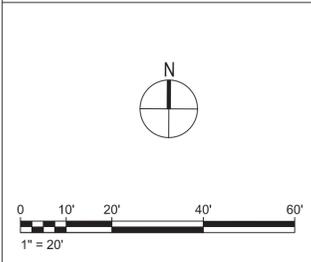
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(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH, PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	3.07	(FN3) FENCE - CABLE - TYPE 2 - DTL X, SHT X	5.03
(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

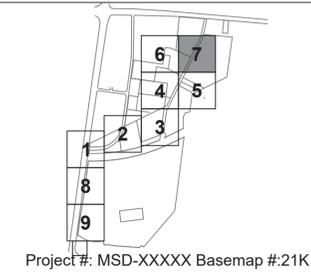
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

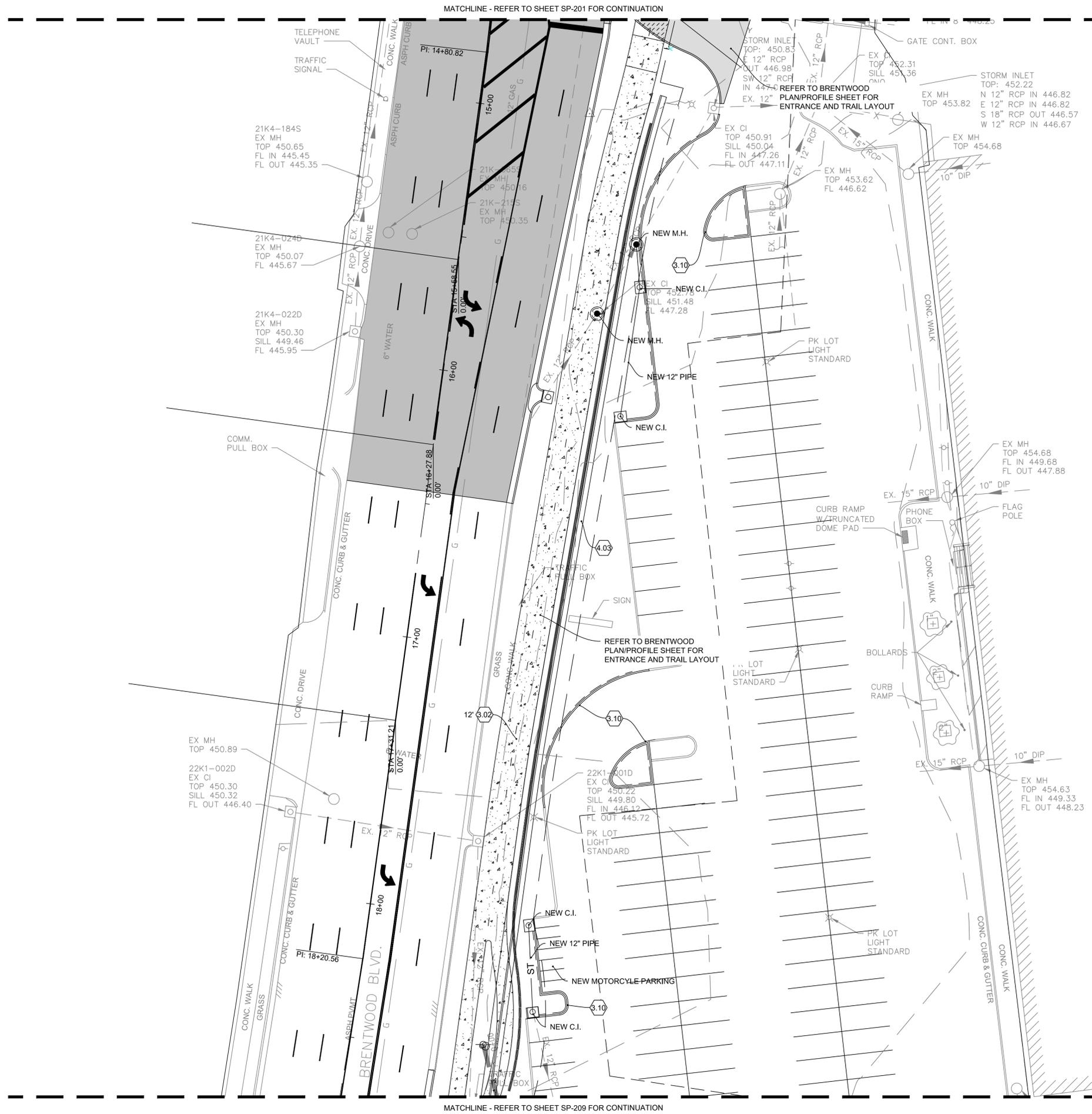
THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANKIE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	22 OF 92

SP-207

DWG: F:\11924\NW Park GRG Connector\11-Cadd\current\drawing\1924_L_SP_GRG-Con.dwg
 OPERATOR: JEFFNILGES
 PLOT DATE: 8/13/2020 8:10:12 PM
 SAVE DATE: 8/13/2020 7:27:49 PM



SITE PLAN NOTES

1. REFER TO PLAN/PROFILE SHEETS (PP-101 TO PP-106) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR BRENTWOOD BOULEVARD, RUSSEL AVENUE, BRAZEAU AVENUE EXTENSION, AND MARY AVENUE.
2. REFER TO PLAN/PROFILE SHEETS (PP-201 TO PP-205) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR GRG CONNECTOR TRAIL.
3. VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT, IN WRITING, ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK.
4. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FOR STREETS AND HIGHWAYS, LATEST EDITION UNLESS NOTED OTHERWISE ON THE PLANS.
5. COORDINATE POINTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
6. RADIUS MEASUREMENTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
7. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AS WELL AS APPLICABLE UTILITY PROVIDER REQUIREMENTS.
8. PROTECT ALL EXISTING VEGETATION SHOWN AS TO REMAIN PER THE CONTRACT DOCUMENTS.
9. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.

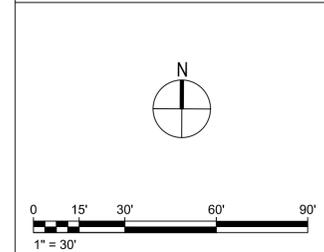
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	3.01	(RT1) CON. RET. WALL - DTL X, SHT X	4.01
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	3.07	(FN3) FENCE - CABLE - TYPE 2 - DTL X, SHT X	5.03
(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

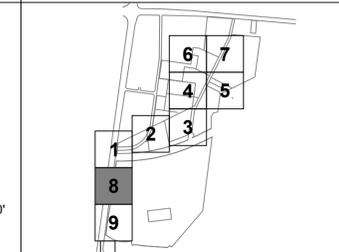
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN

SITE PLAN
 BRENTWOOD BOULEVARD

JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

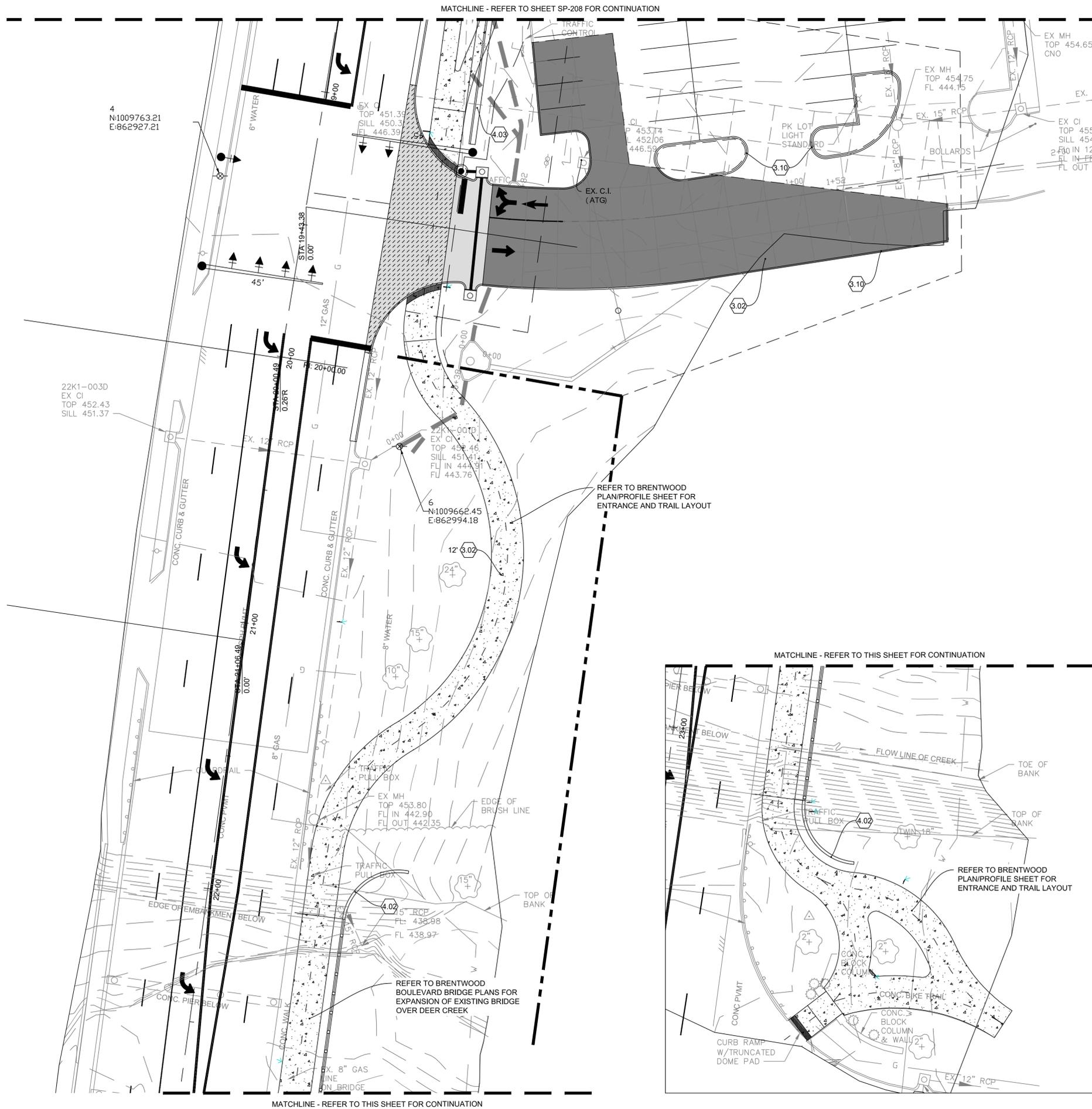
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PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME: -	DISCIPLINE: -
LICENSE NO.:	EXPIRATION DATE: -
DATE: 14 AUGUST 2020	
DESIGNED: J. NILGES	DRAWN: H. BROWN
CHECKED: A FRANK	
HS JOB NO. 1815600	JACOBS JOB NO. 707841CH
SHEET 23	OF 92

SP-208

DWG: P:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_SP_GRG-Con.dwg
 SAVE DATE: 8/13/2020 7:00:43 PM
 PLOT DATE: 8/13/2020 7:27:08 PM
 OPERATOR: JEFFNILES



SITE PLAN NOTES

1. REFER TO PLAN/PROFILE SHEETS (PP-101 TO PP-106) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR BRENTWOOD BOULEVARD, RUSSEL AVENUE, BRAZEAU AVENUE EXTENSION, AND MARY AVENUE.
2. REFER TO PLAN/PROFILE SHEETS (PP-201 TO PP-205) FOR DETAILED HORIZONTAL/VERTICAL DESIGN FOR GRG CONNECTOR TRAIL.
3. VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT, IN WRITING, ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK.
4. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FOR STREETS AND HIGHWAYS, LATEST EDITION UNLESS NOTED OTHERWISE ON THE PLANS.
5. COORDINATE POINTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
6. RADIUS MEASUREMENTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
7. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AS WELL AS APPLICABLE UTILITY PROVIDER REQUIREMENTS.
8. PROTECT ALL EXISTING VEGETATION SHOWN AS TO REMAIN PER THE CONTRACT DOCUMENTS.
9. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.

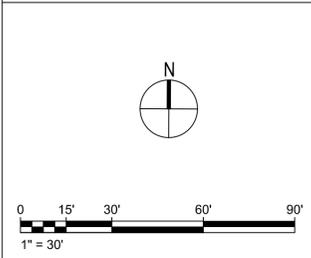
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	(3.01)	(RT1) CON. RET. WALL - DTL X, SHT X	(4.01)
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	(3.02)	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	(4.02)
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	(3.03)	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	(4.03)
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	(3.04)	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	(4.04)
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	(3.05)	(FN1) FENCE - CHAINLINK VC - DTL X, SHT X	(5.01)
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	(3.06)	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	(5.02)
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	(3.07)	(FN3) FENCE - CABLE - TYPE 2 - DTL X, SHT X	(5.03)
(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	(3.08)	(FN4) FENCE - ORNAMENTAL - DTL X, SHT X	(5.04)
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	(3.09)	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	(5.05)
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	(3.10)	(SF1) BENCH (OPCI) - DTL X, SHT X	(6.01)
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	(3.11)	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	(6.02)
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	(3.12)	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	(6.03)
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	(6.04)

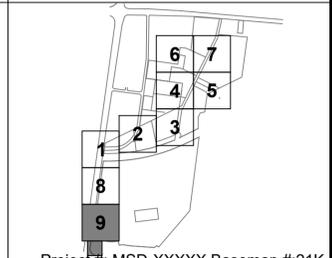
MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	(Pattern)	LIMESTONE BOULDER	(Pattern)
CONCRETE PAVEMENT - PEDESTRIAN	(Pattern)	DECORATIVE GRAVEL	(Pattern)
ASPHALT PAVEMENT	(Pattern)	AMENDED SOILS DISCONNECT	(Pattern)
PAVERS - PERMEABLE	(Pattern)		
PAVERS - NOMINAL	(Pattern)		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SITE PLAN
 BRENTWOOD BOULEVARD



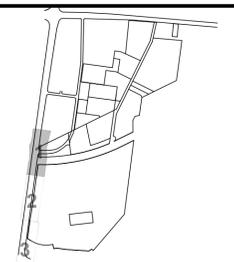
NO.	DATE	REVISION

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PRELIMINARY NOT FOR CONSTRUCTION

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	24 OF 92

SP-209



GREAT RIVERS GREENWAY CONNECTOR PROJECT

60% DESIGN

PLAN & PROFILE - BRENTWOOD BOULEVARD (GRG)

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

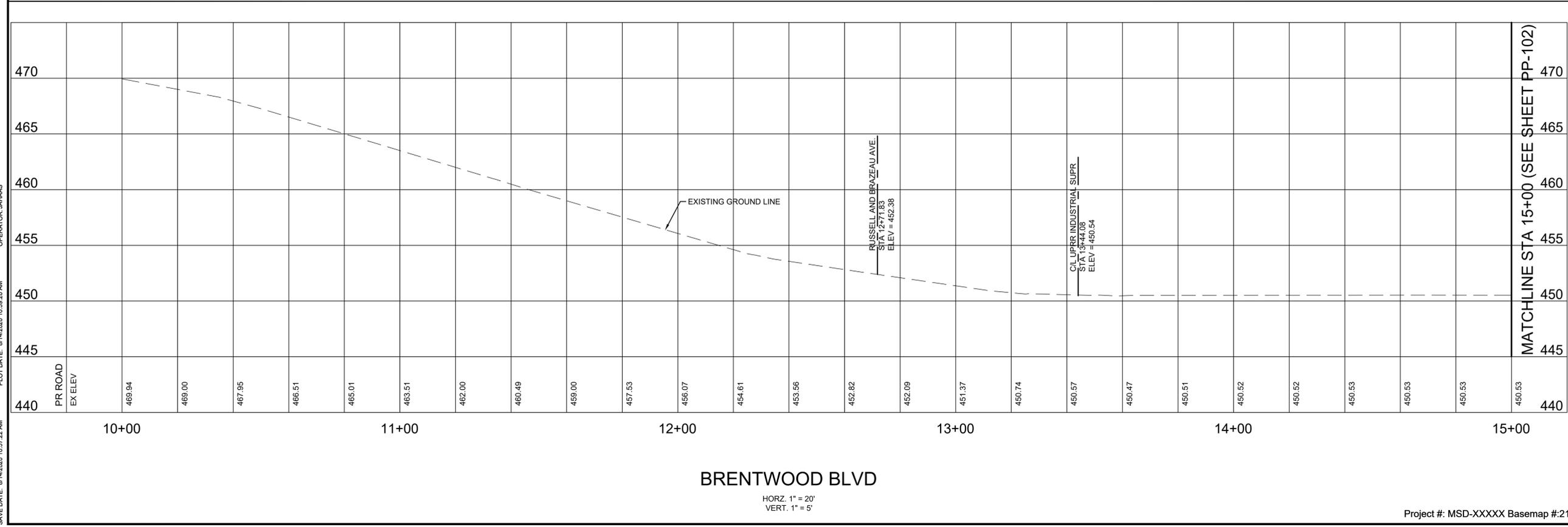
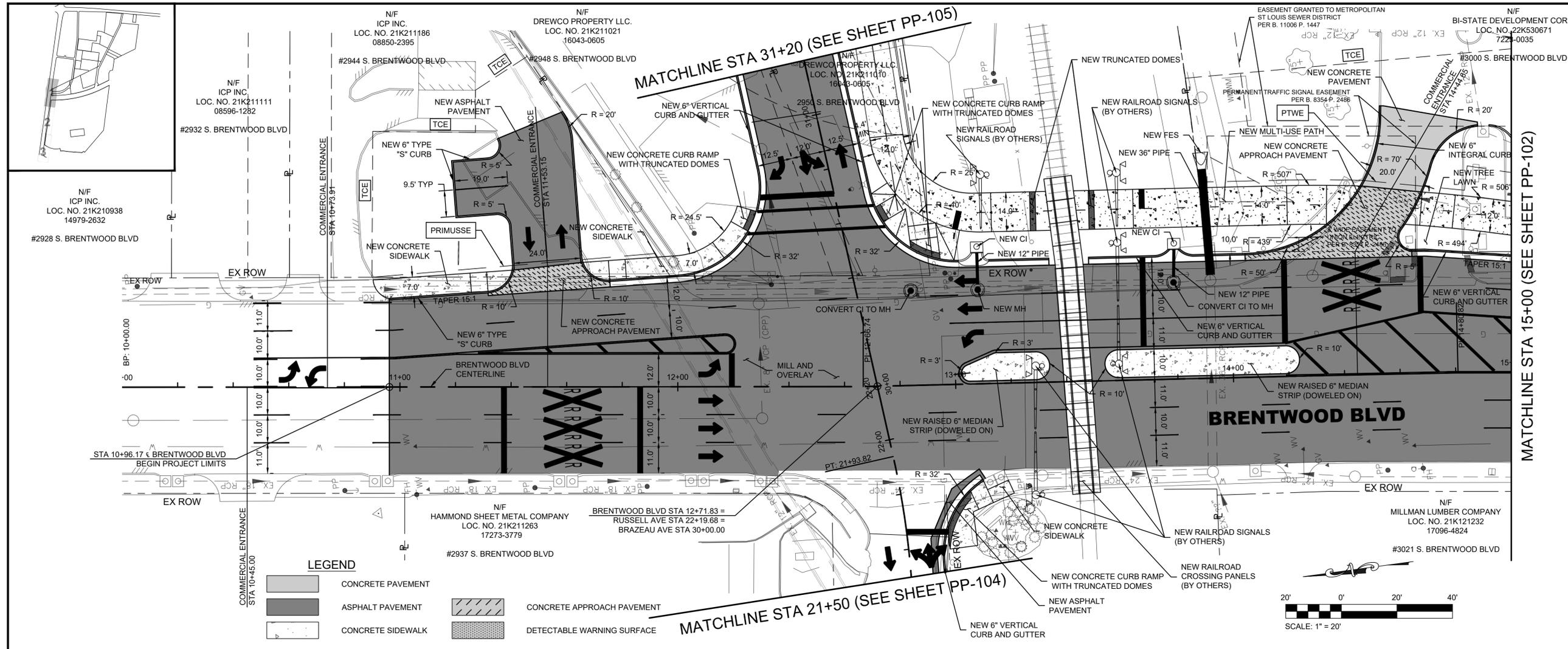
PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

PRELIMINARY NOT FOR CONSTRUCTION

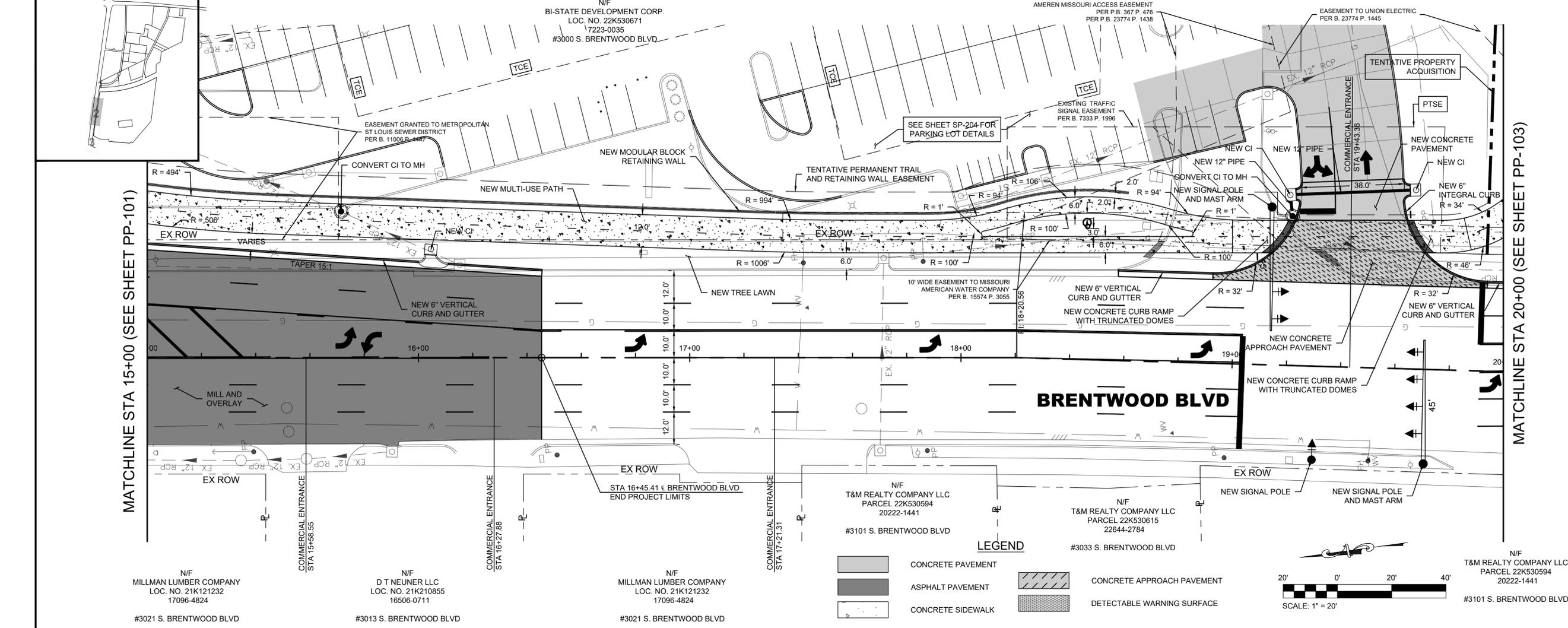
NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. HAAS
 DRAWN: J. HAAS
 CHECKED: R. ASHRAFZADEH
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 25 OF 92

PP-101



DWG: C:\pwworking\jacobs_b\fig_ev\haas\1025047\Roadway\Plan (MS 1815620).dwg
 OPERATOR: J.A.H.A.S.
 PLOT DATE: 8/14/2020 10:59:28 AM
 SAVE DATE: 8/14/2020 10:57:52 AM

Project #: MSD-XXXXX Basemap #21K



GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN

PLAN & PROFILE - BRENTWOOD BOULEVARD (GRG)

Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

PRELIMINARY NOT FOR CONSTRUCTION

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -
DATE: 14 AUGUST 2020
DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH
SHEET 26 OF 92

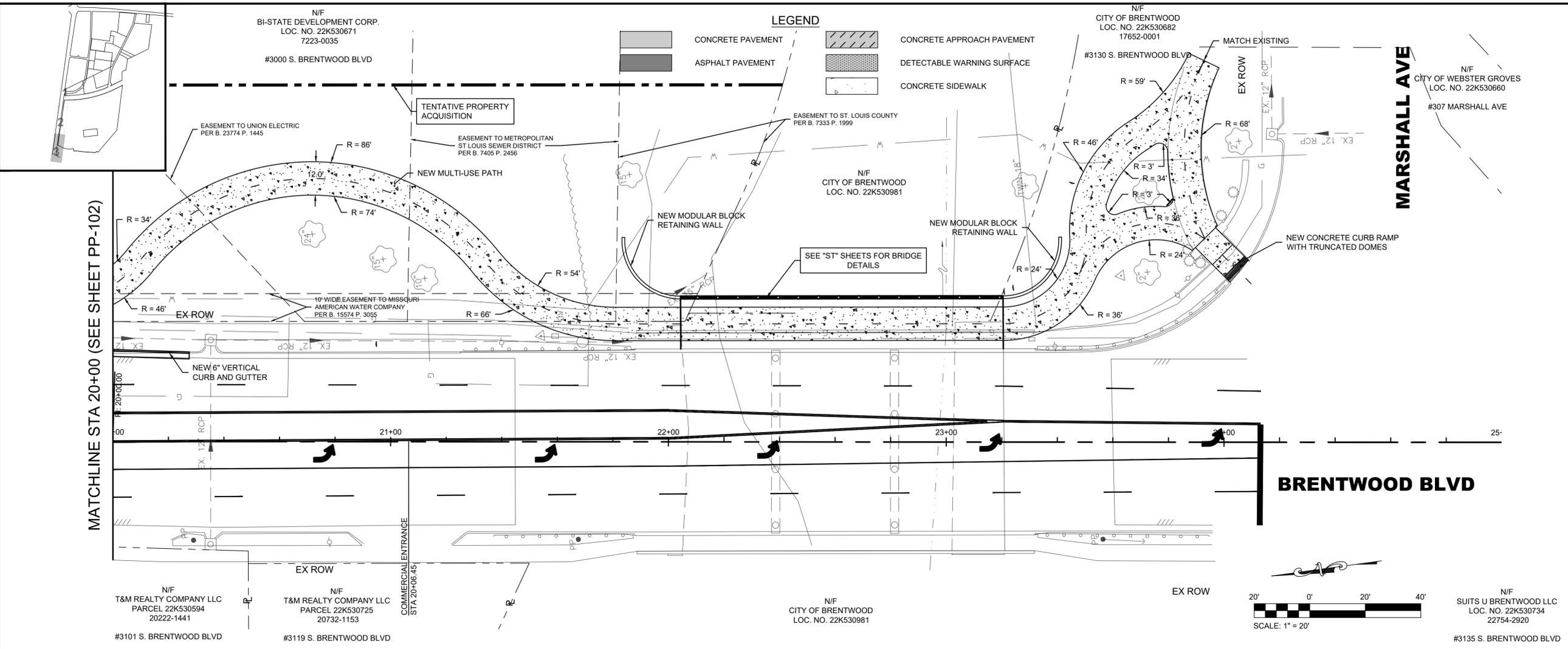
PP-102

PR ROAD EX ELEV	15+00	16+00	17+00	18+00	19+00	20+00
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440	450.59	450.61	450.67	450.76	450.84	450.92
445	451.00	451.08	451.15	451.23	451.31	451.40
450	451.49	451.57	451.66	451.74	451.82	451.95
455	452.14	452.34	452.54	452.74	452.94	453.14
460	453.34	453.54	453.74	453.94	454.14	454.34
465	454.54	454.74	454.94	455.14	455.34	455.54

BRENTWOOD BLVD
HORZ. 1" = 20'
VERT. 1" = 5'

Project #: MSD-XXXXX Basemap #21K

DWG: C:\pwworking\jacobs_bk\fig_ev\haas\1025007\Roadway Plans (MS) 1815620.dwg
 OPERATOR: J.AHAAS
 PLOT DATE: 8/14/2020 10:59:34 AM
 SAVE DATE: 8/14/2020 10:57:52 AM



GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN
PLAN & PROFILE - BRENTWOOD BOULEVARD (GRG)

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
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HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
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 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
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 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

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PRELIMINARY NOT FOR CONSTRUCTION

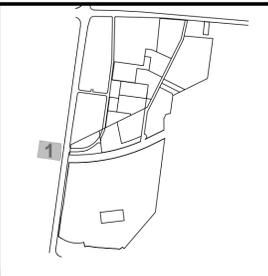
NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. HAAS
 DRAWN: J. HAAS
 CHECKED: R. ASHRAFZADEH
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 27 OF 92

PP-103

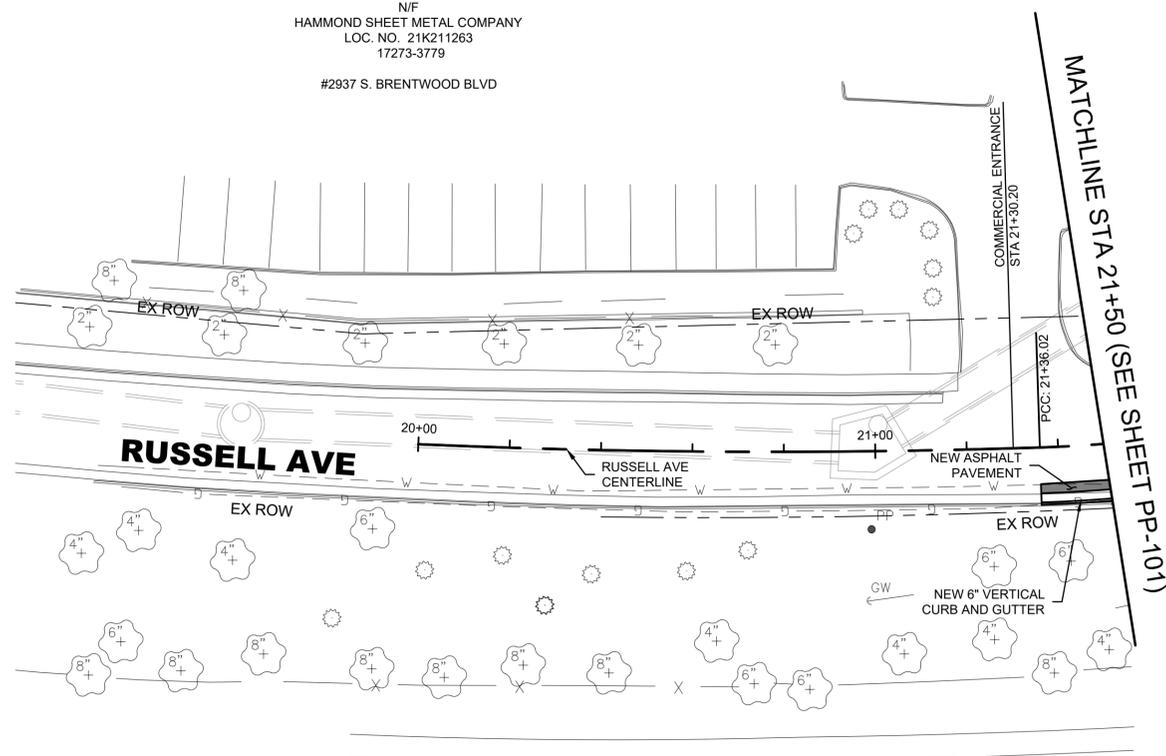


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Project #: MSD-XXXXX Basemap #21K

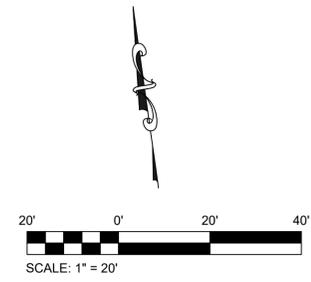


N/F
HAMMOND SHEET METAL COMPANY
LOC. NO. 21K211263
17273-3779
#2937 S. BRENTWOOD BLVD



LEGEND

	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE APPROACH PAVEMENT
	DETECTABLE WARNING SURFACE



Brentwood Bound
Building a Bright Future

GREAT RIVERS GREENWAY CONNECTOR PROJECT

60% DESIGN

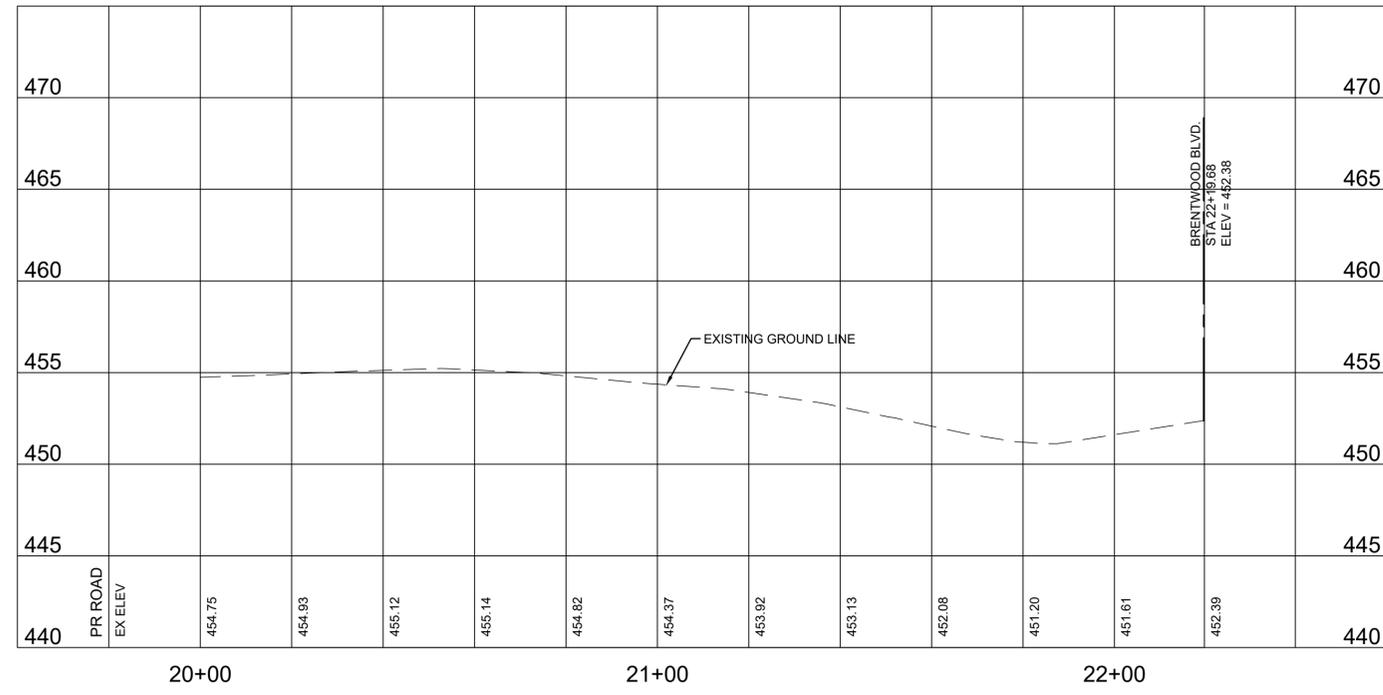
PLAN & PROFILE - RUSSELL AVENUE

Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020



RUSSELL AVE
HORZ. 1" = 20'
VERT. 1" = 5'

NO.	DATE	REVISION

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

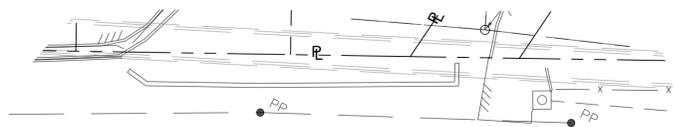
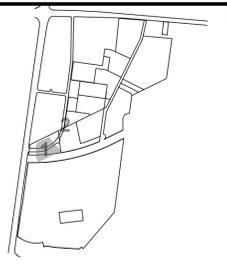
DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

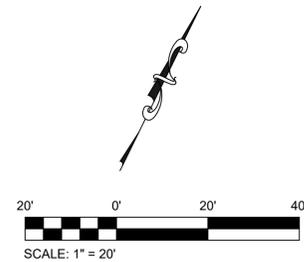
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PP-104

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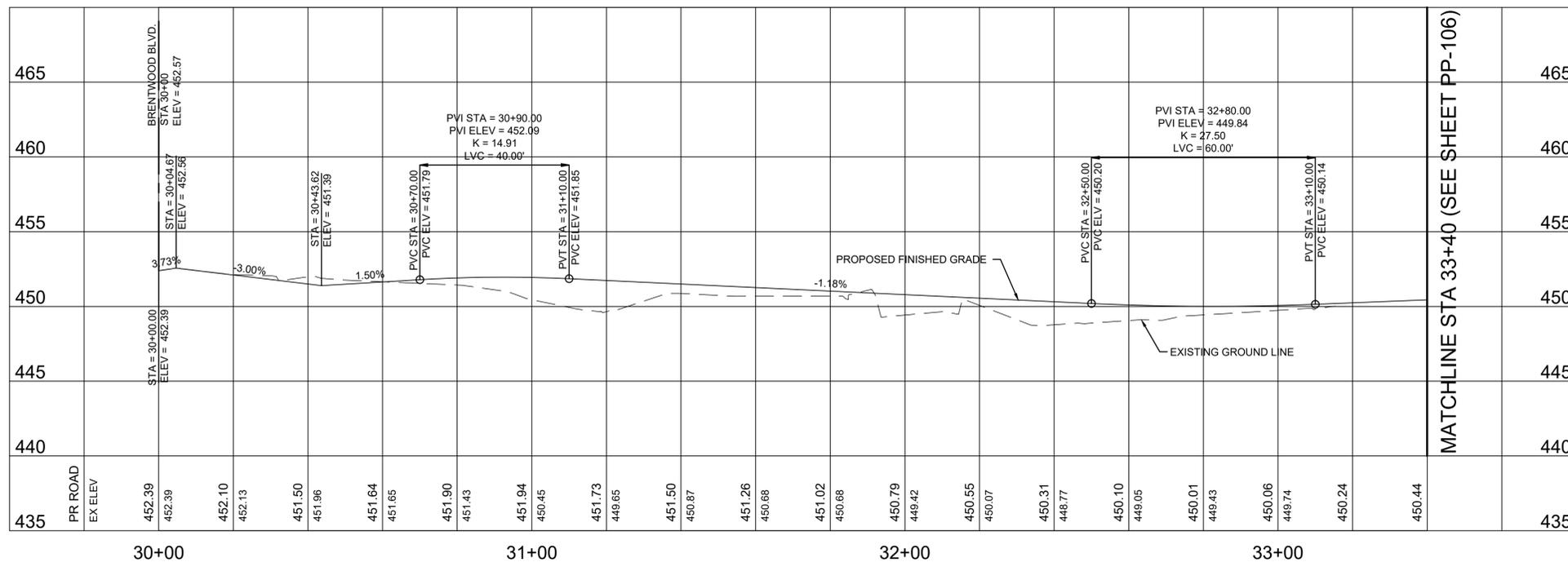
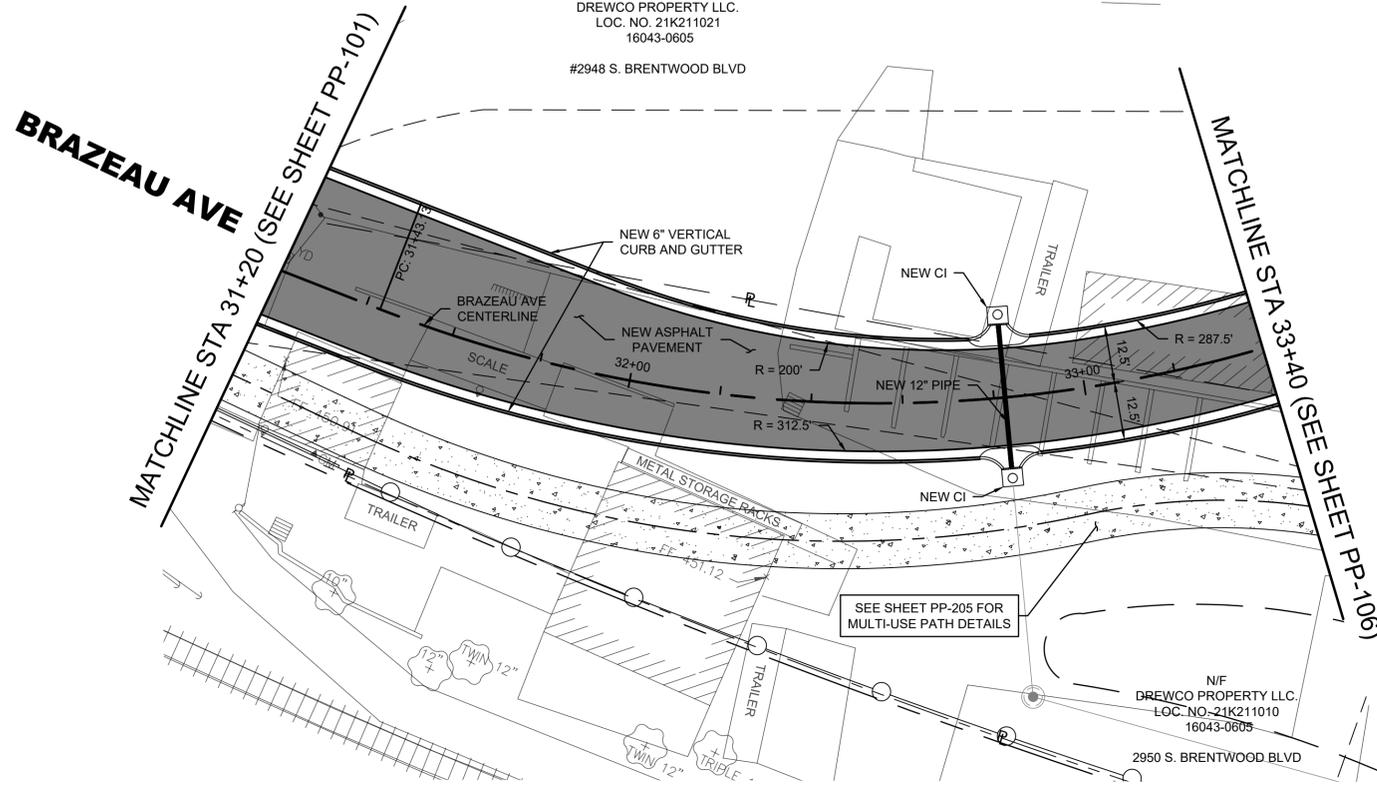


N/F
DREWCO PROPERTY LLC.
LOC. NO. 21K211021
16043-0605
#2948 S. BRENTWOOD BLVD



LEGEND

	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE APPROACH PAVEMENT
	DETECTABLE WARNING SURFACE



BRAZEAU AVE

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



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN & PROFILE - BRAZEAU AVENUE

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

**HORNER
SHIFRIN**

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63117
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
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EXPIRATION DATE: -

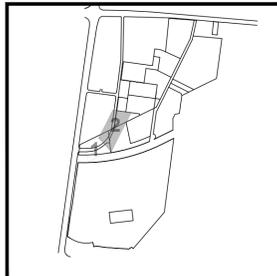
DATE: 14 AUGUST 2020

DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 29 OF 92

PP-105

Project #: MSD-XXXXX Basemap #21K

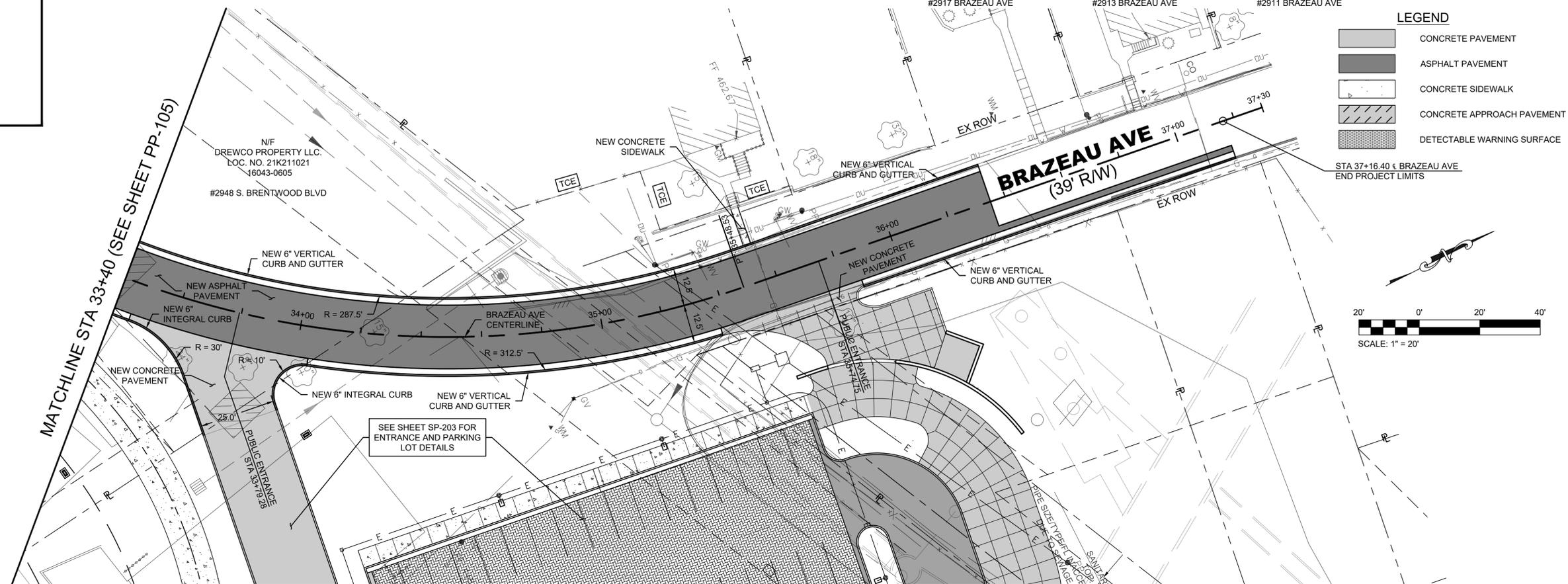


N/F
JOHNSON, ANDREW
LOC. NO. 21K211203
#2925 BRAZEAU AVE

N/F
CASTREJANA, MATTHEW & OLIVE
LOC. NO. 21K210262
23710-1378

N/F
MCCRARY, JORDAN ETAL
LOC. NO. 21K210295
22101-551

N/F
MANSKER, JOSEPH B & GLENDA, M
LOC. NO. 21K210361
21895-46



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT
60% DESIGN**

PLAN & PROFILE - BRAZEAU AVENUE



JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020



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314-241-3600 • WWW.PANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

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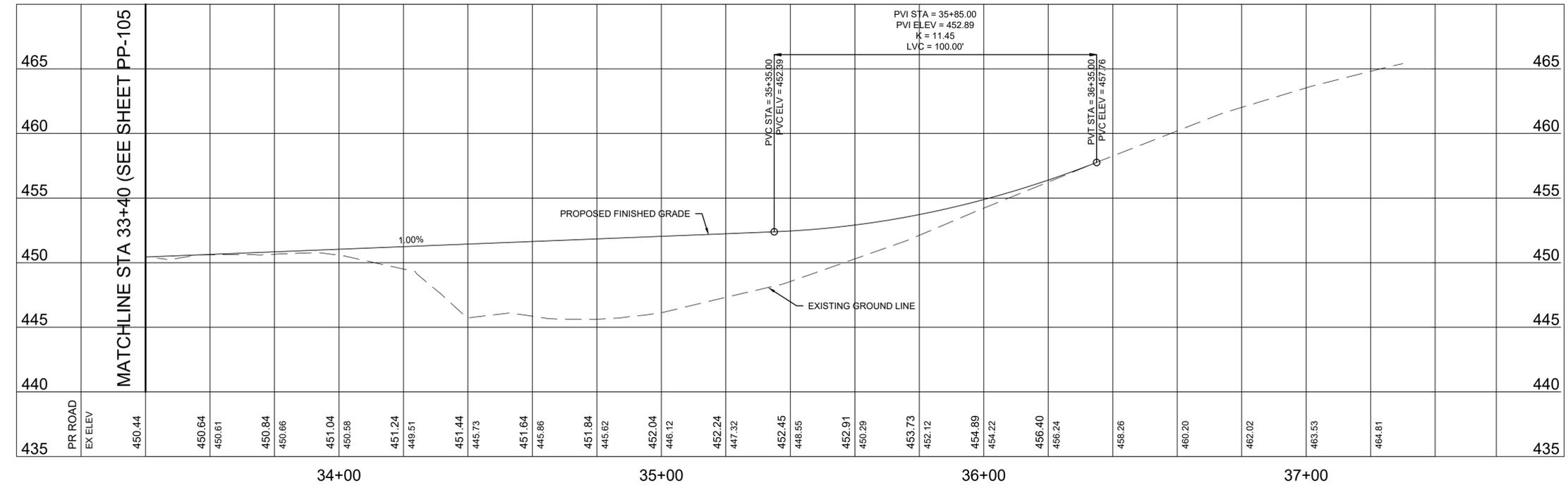
DATE: 14 AUGUST 2020

DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

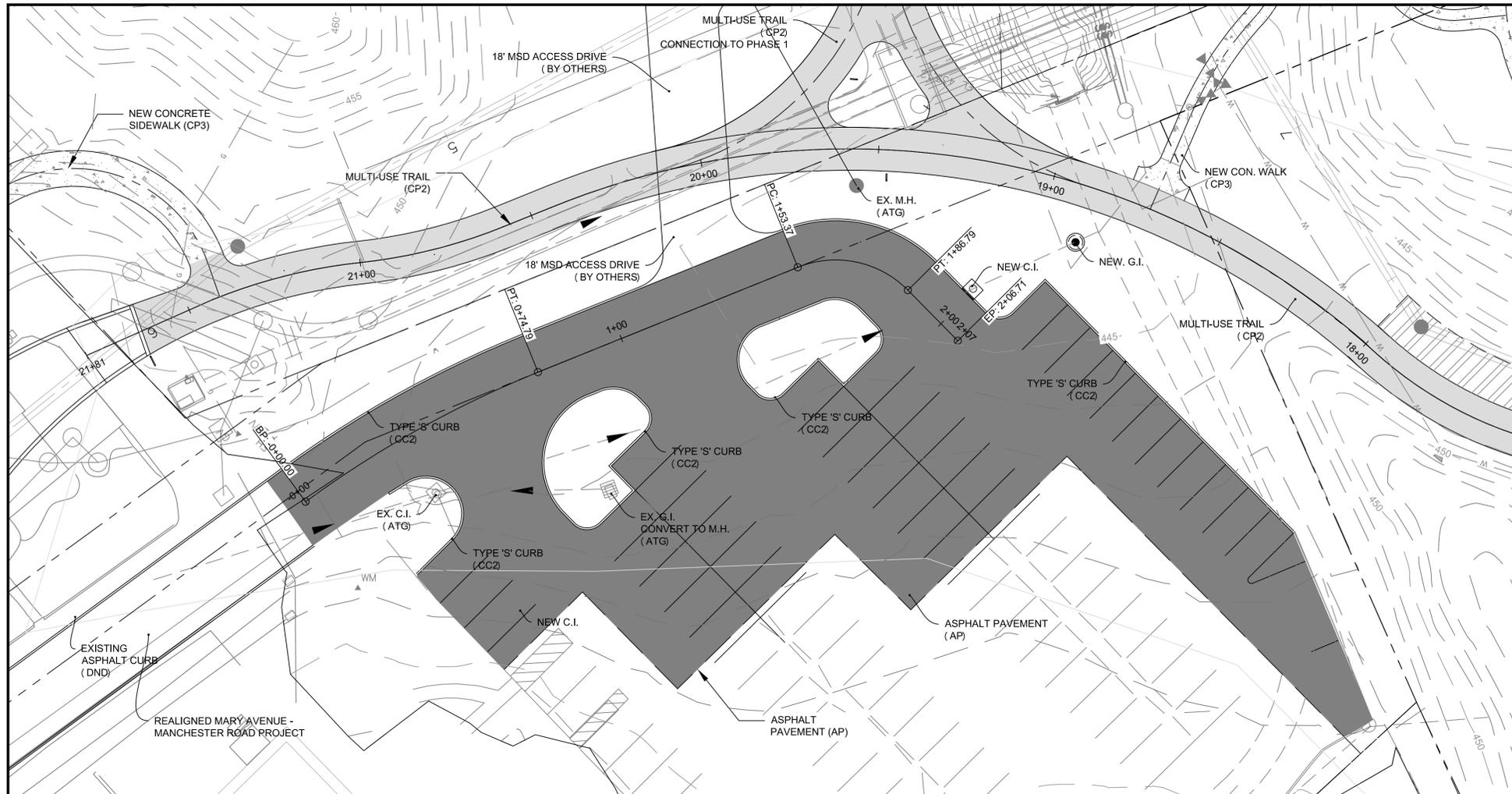
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PP-106

Project #: MSD-XXXXX Basemap #21K



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SITE PLAN NOTES

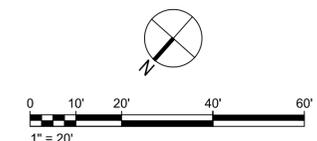
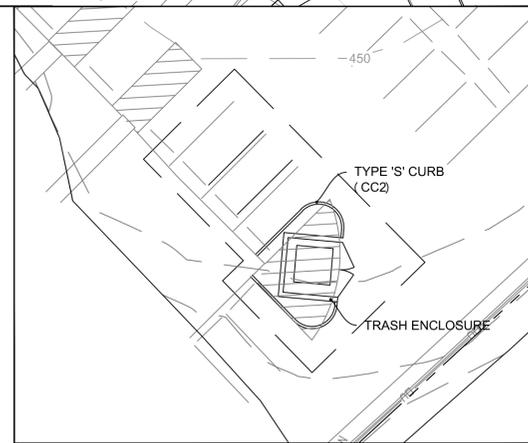
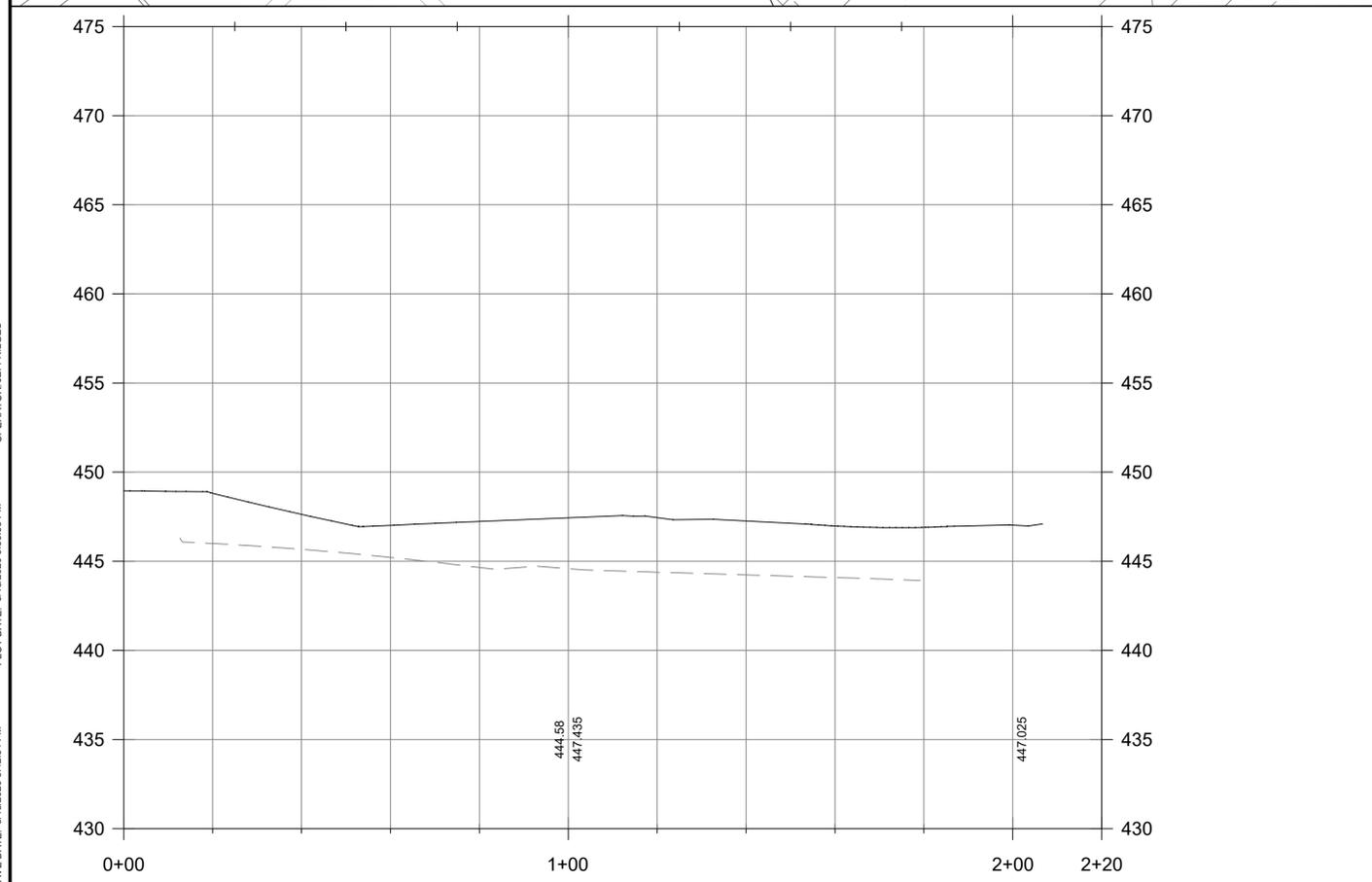
1. VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT, IN WRITING, ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK.
2. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FOR STREETS AND HIGHWAYS, LATEST EDITION UNLESS NOTED OTHERWISE ON THE PLANS.
3. COORDINATE POINTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
4. RADIUS MEASUREMENTS ARE TO EDGE OF PAVEMENT/IMPROVEMENTS OR TO BACK OF CURBS AND BUILDING UNLESS NOTED OTHERWISE.
5. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AS WELL AS APPLICABLE UTILITY PROVIDER REQUIREMENTS.
6. PROTECT ALL EXISTING VEGETATION SHOWN AS TO REMAIN PER THE CONTRACT DOCUMENTS.
7. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.

KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(CP1) CON. PAVEMENT -VEH. - DTL X, SHT X	3.01	(RT1) CON. RET. WALL - DTL X, SHT X	4.01
(CP2) CON. PAVEMENT -VEH. - DTL X, SHT X	3.02	(RT2) CON. RET. WALL W/ VENEER - DTL X, SHT X	4.02
(CP3) CON. PAVEMENT -PED. - DTL X, SHT X	3.03	(RT3) CON. RET. WALL - LARGE BLOCK - DTL X, SHT X	4.03
(AP) ASPHALT PAVEMENT -VEH. - DTL X, SHT X	3.04	(RT4) LIMESTONE RET. WALL - DTL X, SHT X	4.04
(MP1) MOD. CON. PAVERS - VEH. PERMEABLE - DTL X, SHT X	3.05	(FN1) FENCE - CHAINLINK VC. - DTL X, SHT X	5.01
(MP2) MOD. CON. PAVERS - PED. - DTL X, SHT X	3.06	(FN2) FENCE - CABLE - TYPE 1 - DTL X, SHT X	5.02
(DG1) DECORATIVE GRAVEL TYPE 1 - DTL X, SHT X	3.07	(FN3) FENCE - ORNAMENTAL - DTL X, SHT X	5.03
(CC1) CON. CURB -TYPE 'B' - DTL X, SHT X	3.08	(HD1) HANDRAIL - TYPE 1 - DTL X, SHT X	5.04
(CC2) CON. CURB - TYPE 'S' - DTL X, SHT X	3.09	(HD2) HANDRAIL - CABLE - DTL X, SHT X	5.05
(CC3) CON. CURB - INTEGRAL - DTL X, SHT X	3.10	(SF1) BENCH (OPCI) - DTL X, SHT X	6.01
(CS1) CON. STEPS - TYPE 1 - DTL X, SHT X	3.11	(SF2) TRASH RECEPTACL (OPCI) - DTL X, SHT X	6.02
(CS2) CON. STEPS - TYPE 2 - DTL X, SHT X	3.12	(SF3) BIKE RACK (OPCI) - DTL X, SHT X	6.03
		(SF4) DRINKING FOUNTAIN - DTL X, SHT X	6.04

MATERIALS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol]	LIMESTONE BOULDER	[Symbol]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol]	DECORATIVE GRAVEL	[Symbol]
ASPHALT PAVEMENT	[Symbol]	AMENDED SOILS DISCONNECT	[Symbol]
PAVERS - PERMEABLE	[Symbol]		
PAVERS - NOMINAL	[Symbol]		



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 PLAN / PROFILE
 MARY AVENUE



NO.	DATE	REVISION

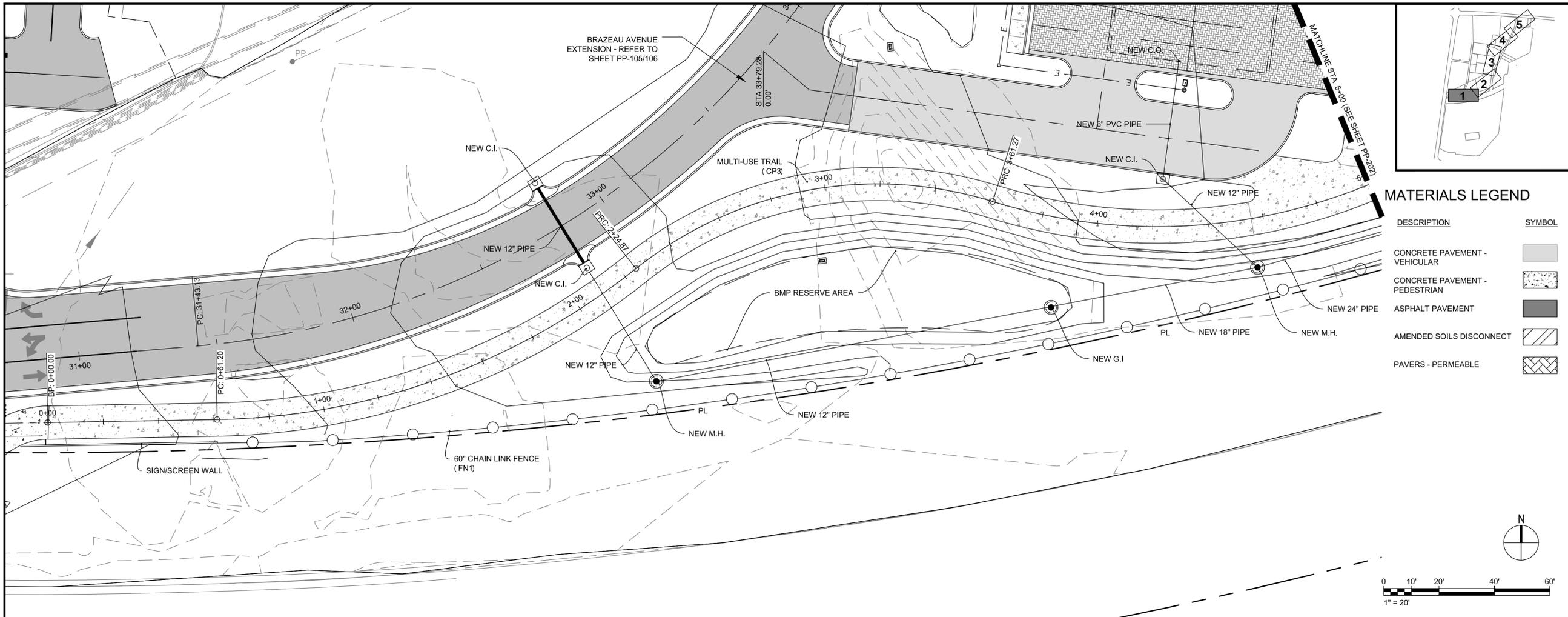
PRELIMINARY
NOT FOR
CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED:
 DRAWN:
 CHECKED:
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 31 OF 92

PP-107

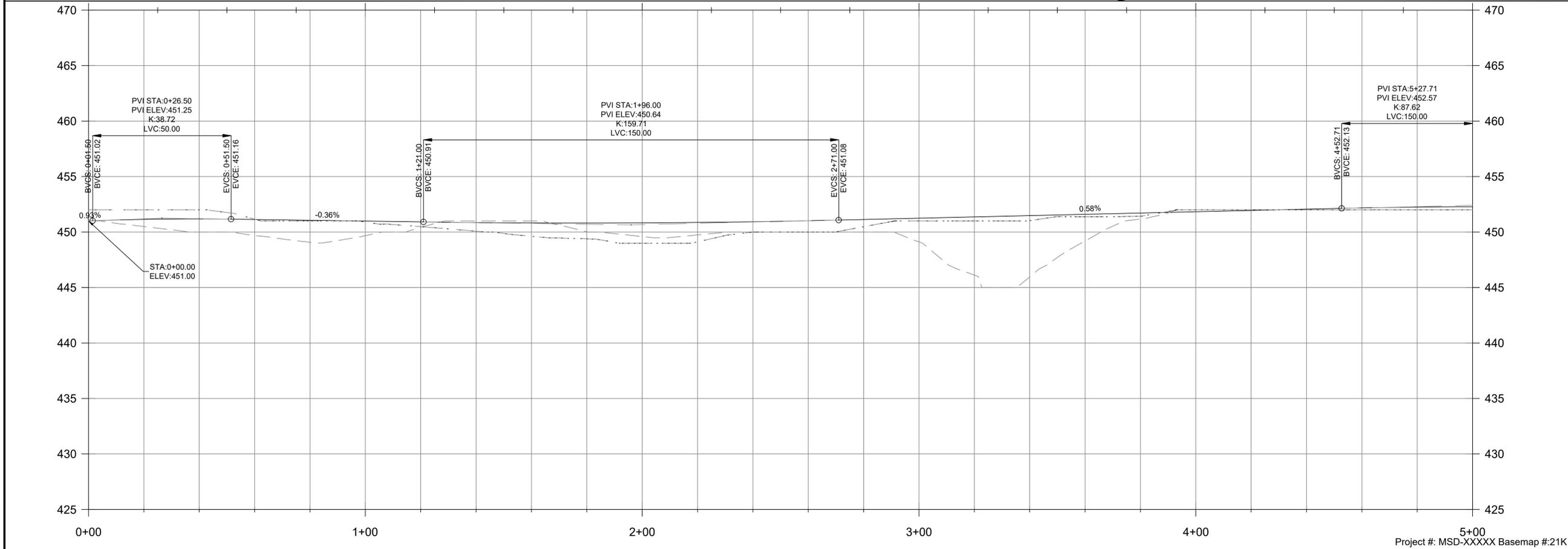
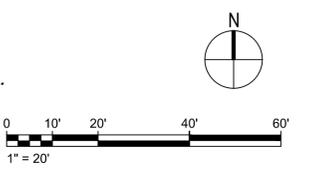
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Project #: MSD-XXXXX Basemap #21K



MATERIALS LEGEND

DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Solid Grey Box]
CONCRETE PAVEMENT - PEDESTRIAN	[Stippled Box]
ASPHALT PAVEMENT	[Dark Grey Box]
AMENDED SOILS DISCONNECT	[Diagonal Lines Box]
PAVERS - PERMEABLE	[Cross-hatched Box]



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN / PROFILE
GRG CONNECTOR

Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63117
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

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EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

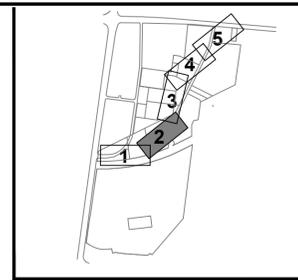
SHEET 32 OF 92

PP-201

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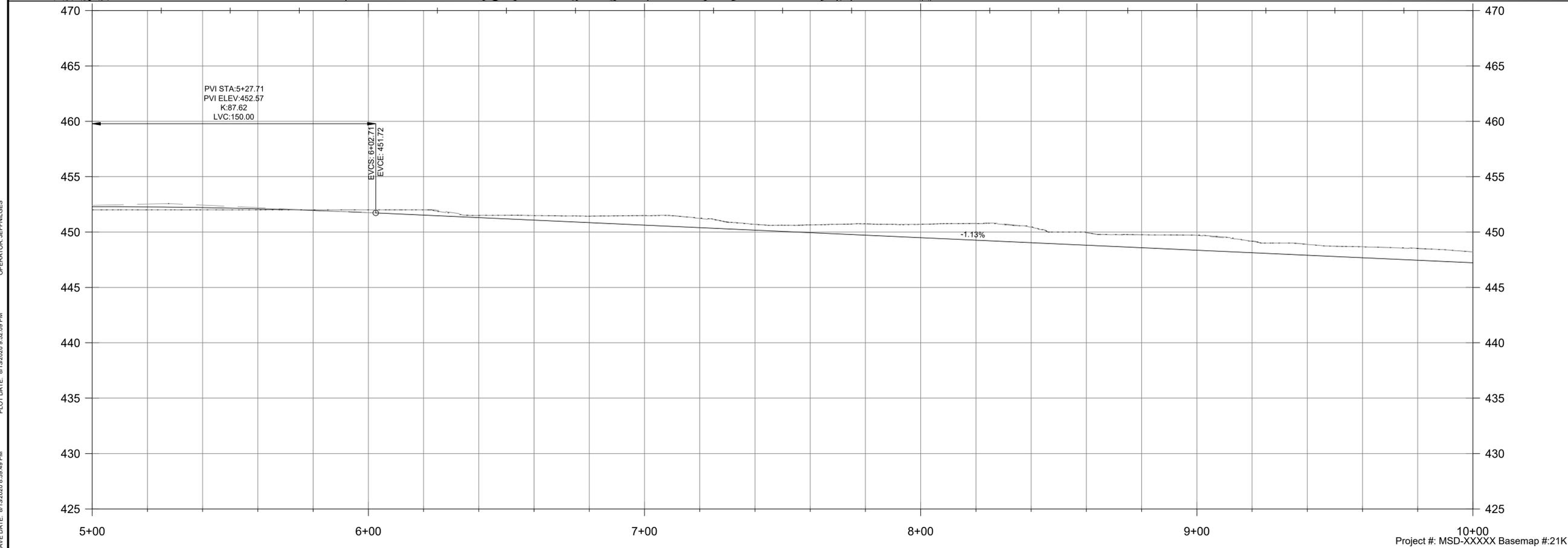
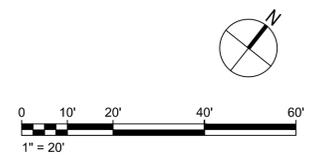
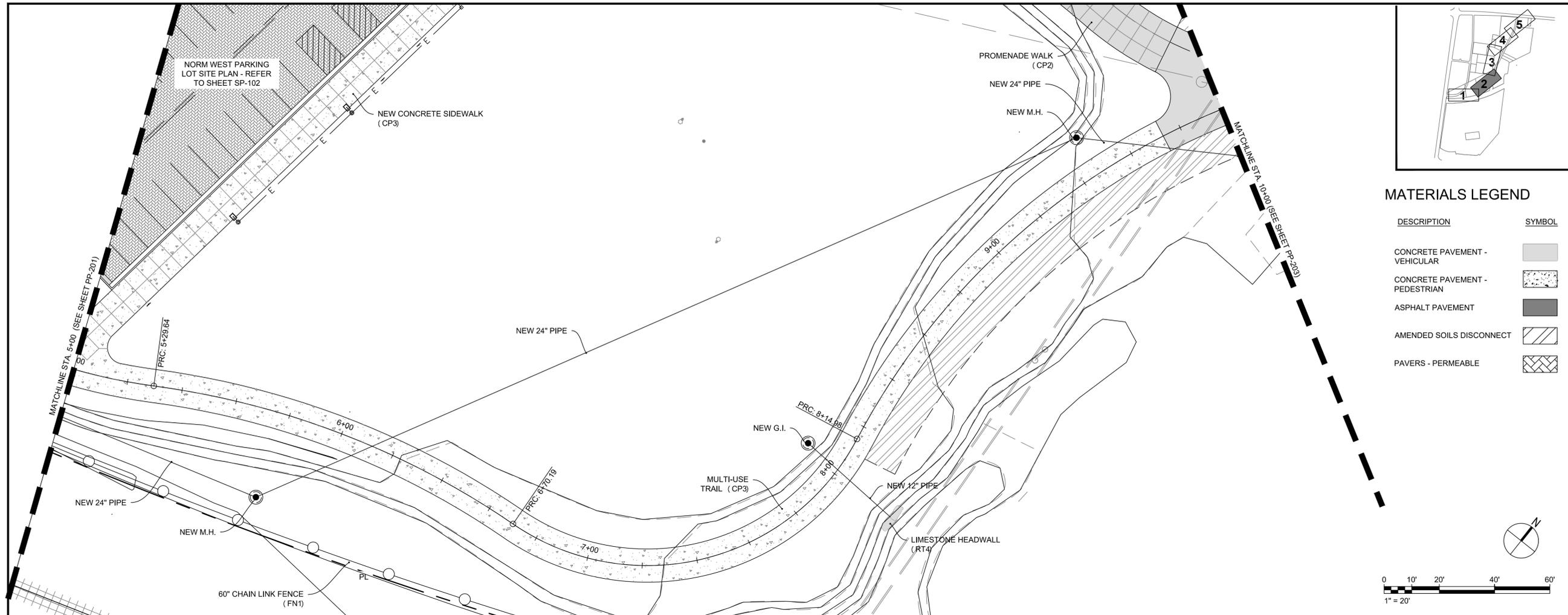
Project #: MSD-XXXXX Basemap #21K

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN / PROFILE
GRG CONNECTOR



MATERIALS LEGEND

DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Symbol: Stippled pattern]
CONCRETE PAVEMENT - PEDESTRIAN	[Symbol: Dotted pattern]
ASPHALT PAVEMENT	[Symbol: Solid dark grey]
AMENDED SOILS DISCONNECT	[Symbol: Diagonal hatching]
PAVERS - PERMEABLE	[Symbol: Cross-hatched pattern]



Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
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314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

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**PRELIMINARY
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DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 33 OF 92

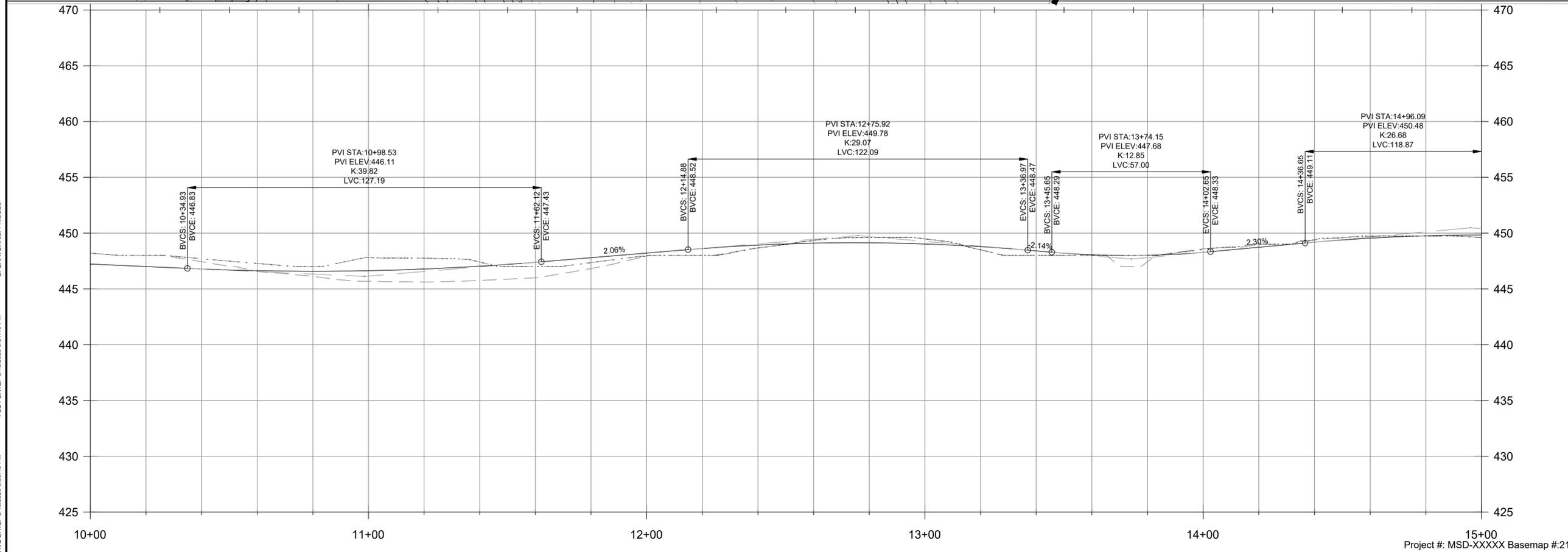
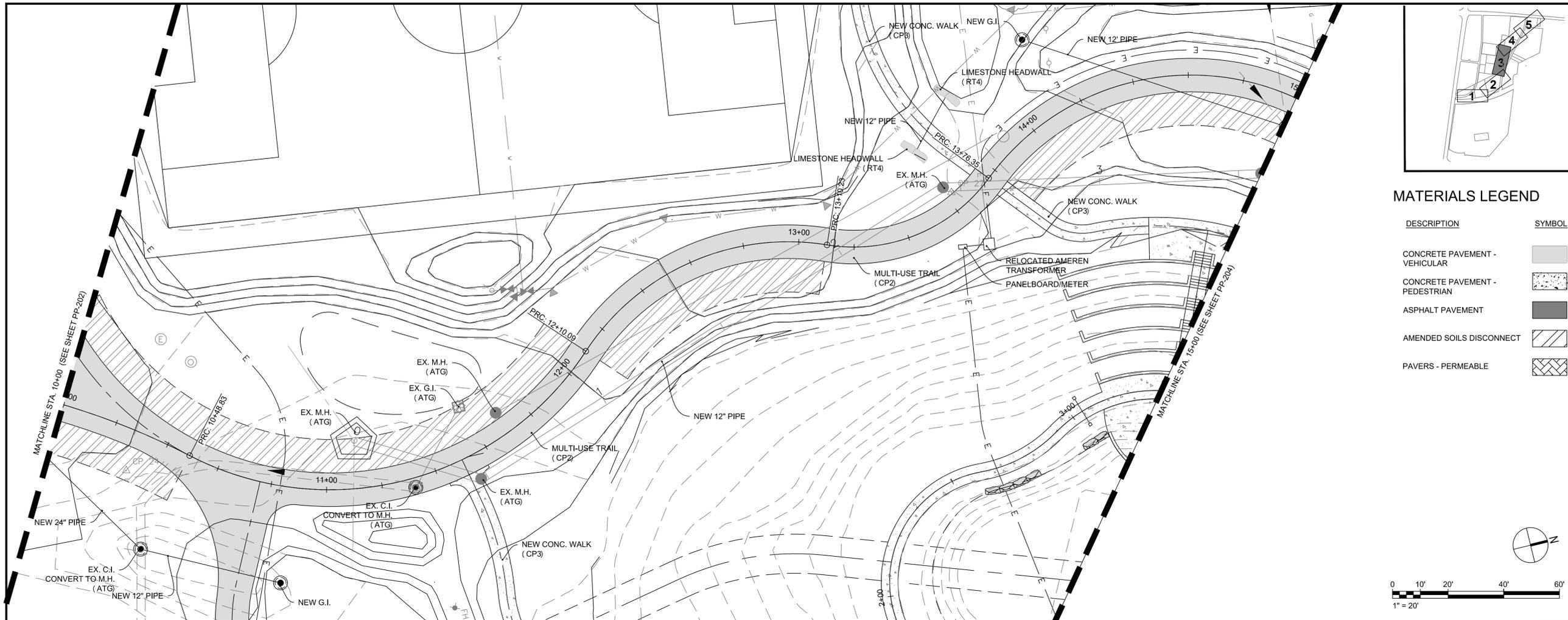
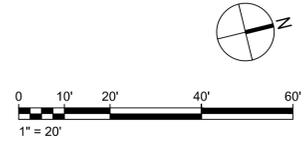
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN / PROFILE
GRG CONNECTOR

MATERIALS LEGEND

DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	
CONCRETE PAVEMENT - PEDESTRIAN	
ASPHALT PAVEMENT	
AMENDED SOILS DISCONNECT	
PAVERS - PERMEABLE	



Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
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DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 34 OF 92

PP-203

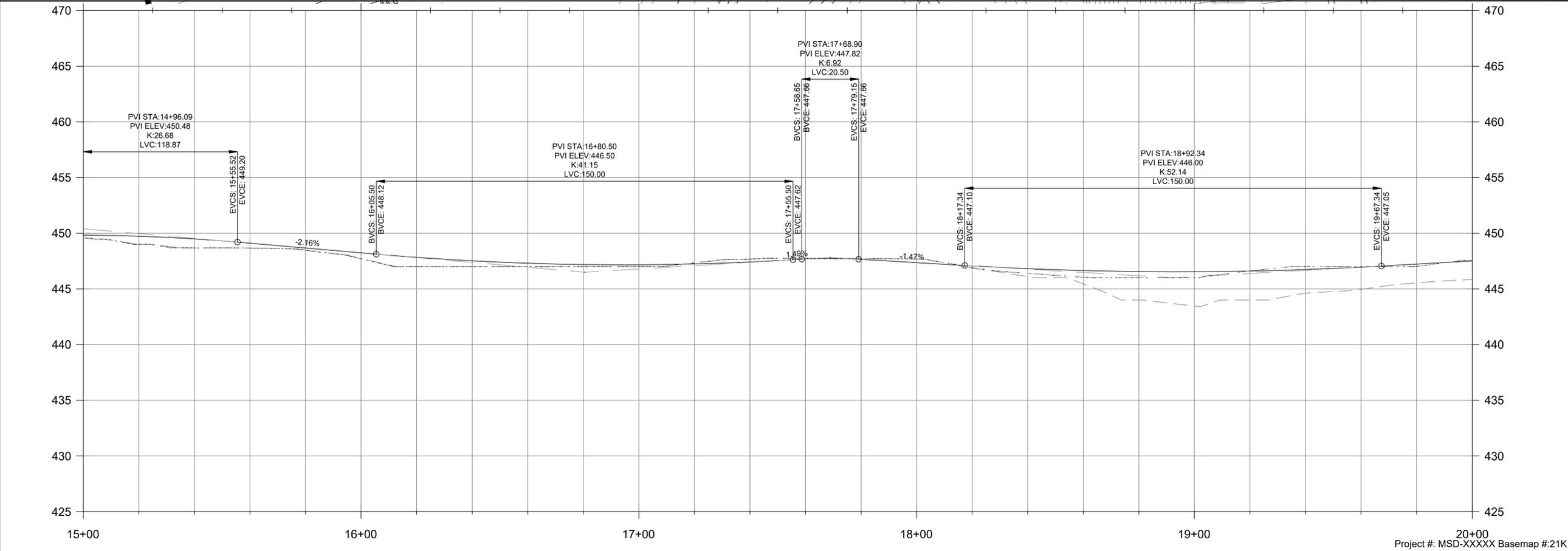
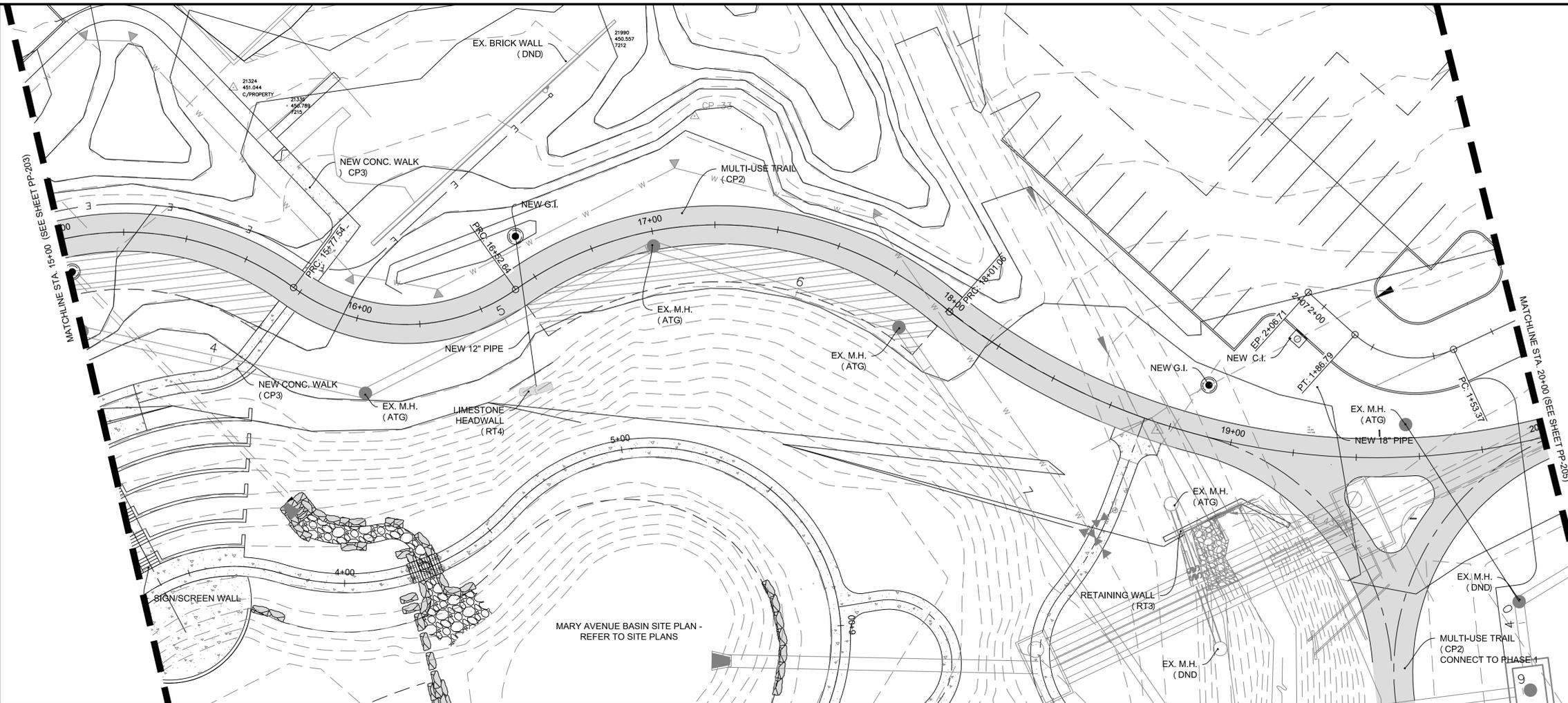
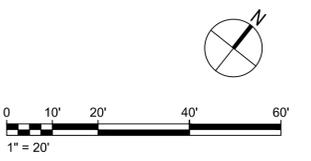
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN / PROFILE
GRG CONNECTOR

MATERIALS LEGEND

DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	[Solid Grey Box]
CONCRETE PAVEMENT - PEDESTRIAN	[Dotted Grey Box]
ASPHALT PAVEMENT	[Dark Grey Box]
AMENDED SOILS DISCONNECT	[Diagonal Lines Box]
PAVERS - PERMEABLE	[Cross-hatched Box]



Jacobs
JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio
P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

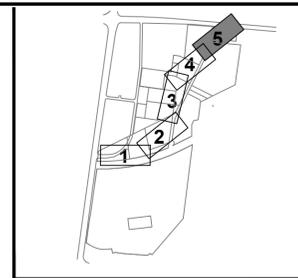
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NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -
DATE: 14 AUGUST 2020
DESIGNED:
DRAWN:
CHECKED:
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH
SHEET 35 OF 92

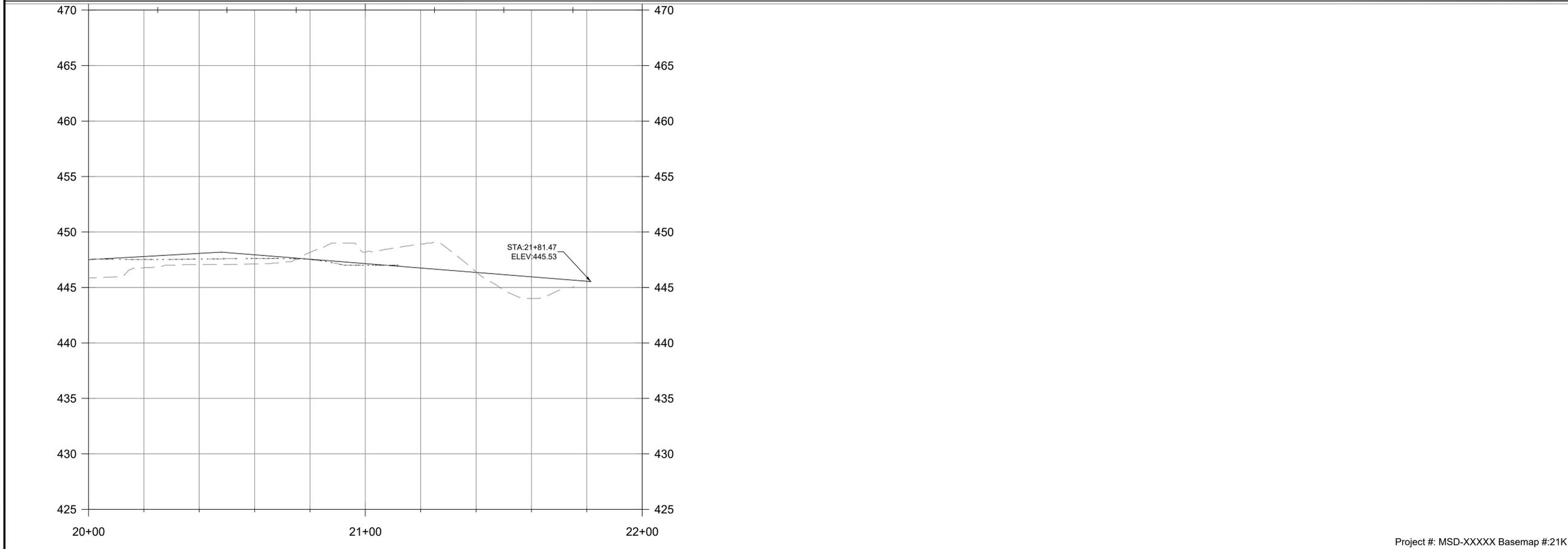
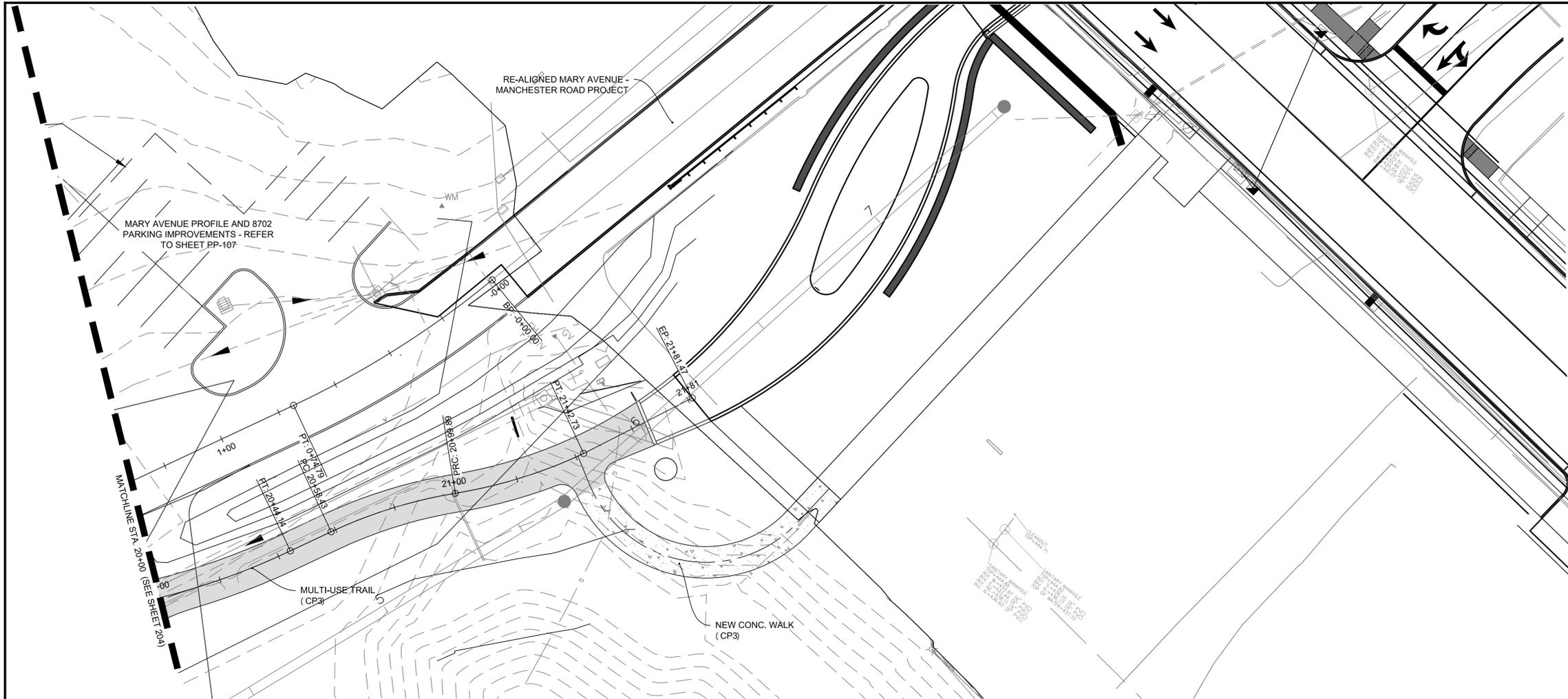
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PLOT DATE: 8/13/2020 9:47:58 PM
OPERATOR: JEFFNILES

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
PLAN / PROFILE
GRG CONNECTOR



MATERIALS LEGEND

DESCRIPTION	SYMBOL
CONCRETE PAVEMENT - VEHICULAR	
CONCRETE PAVEMENT - PEDESTRIAN	
ASPHALT PAVEMENT	
AMENDED SOILS DISCONNECT	



Jacobs

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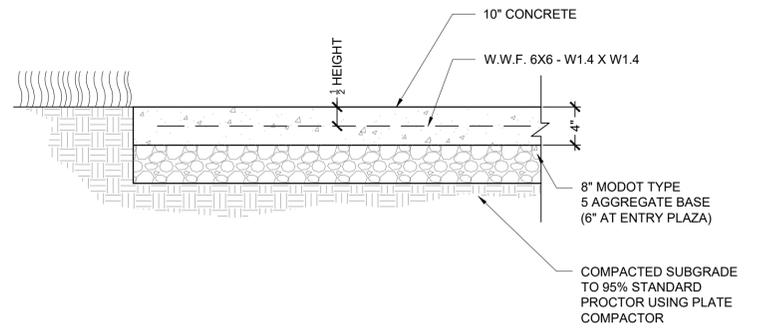
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DESIGNED:
DRAWN:
CHECKED:

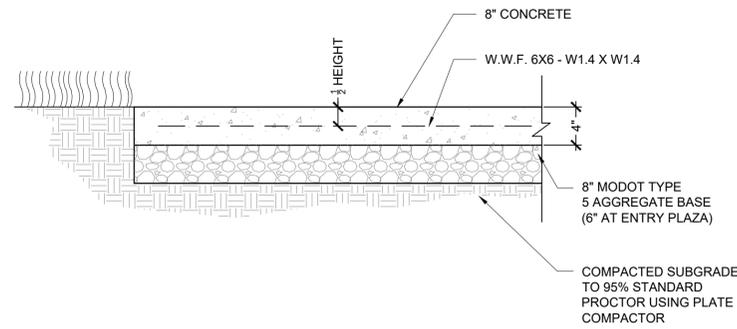
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 36 OF 92

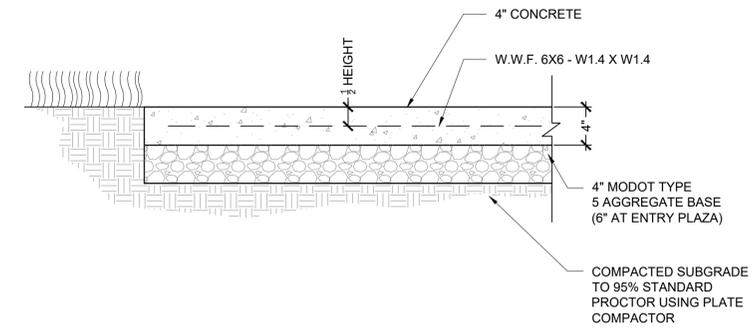
PP-205



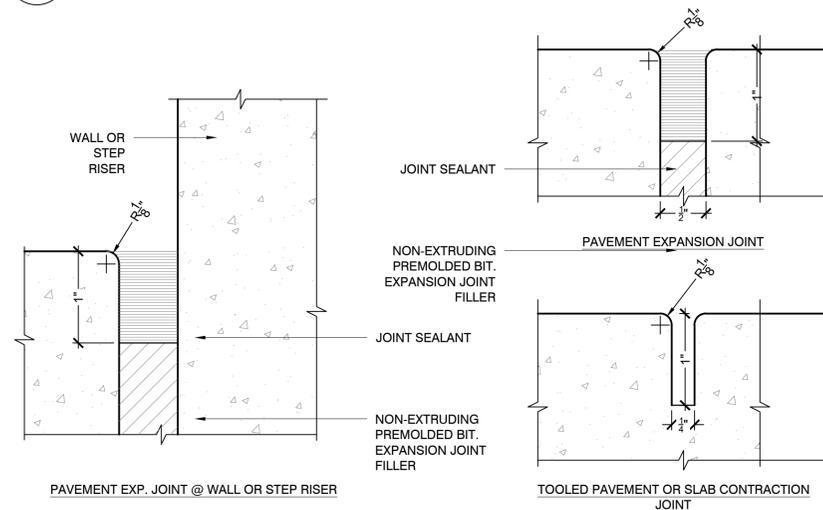
1 CONCRETE PAVEMENT - VEHICULAR (CP1)
SD-101 SECTION NTS



2 CONCRETE PAVEMENT - VEHICULAR (CP2)
SD-101 SECTION NTS



3 CONCRETE PAVEMENT - PEDESTRIAN (CP3)
SD-101 SECTION NTS



4 TYPICAL JOINTS
SD-101 SECTION NTS

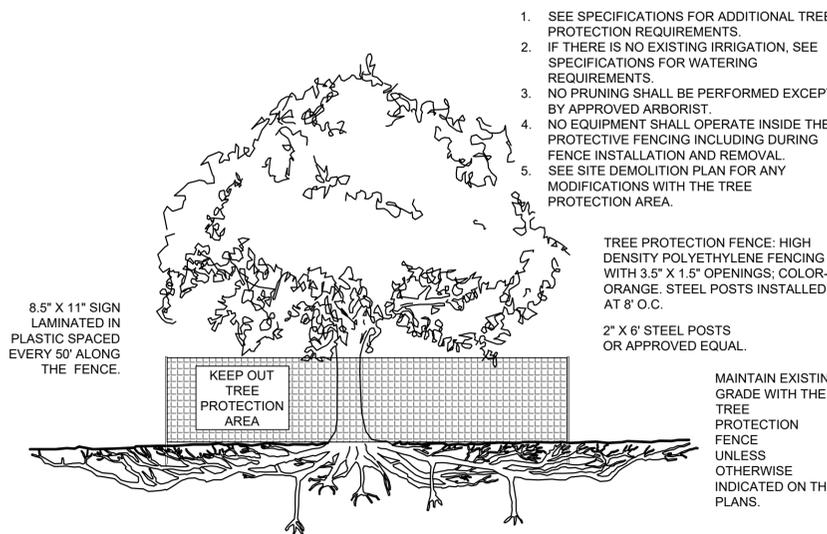
5 ASPHALT PAVEMENT (AP)
SD-101 SECTION NTS

6 VEHICULAR, PERMEABLE MODULAR CONCRETE PAVERS (MP1)
SD-101 SECTION NTS

7 MODULAR CONCRETE PAVERS - PEDESTRIAN (MP2)
SD-101 SECTION NTS

8 DECORATIVE GRAVEL TYPE 1 (DG1)
SD-101 SECTION NTS

9 TREE PROTECTION
SD-101 SECTION NTS



1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
2. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
3. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
4. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
5. SEE SITE DEMOLITION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

NO.	DATE	REVISION

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LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 37 OF 92

SD-101

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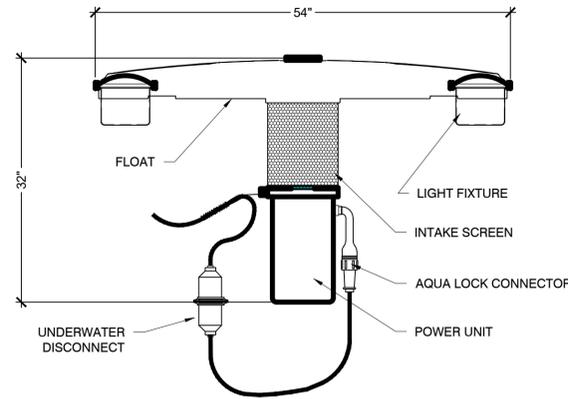
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

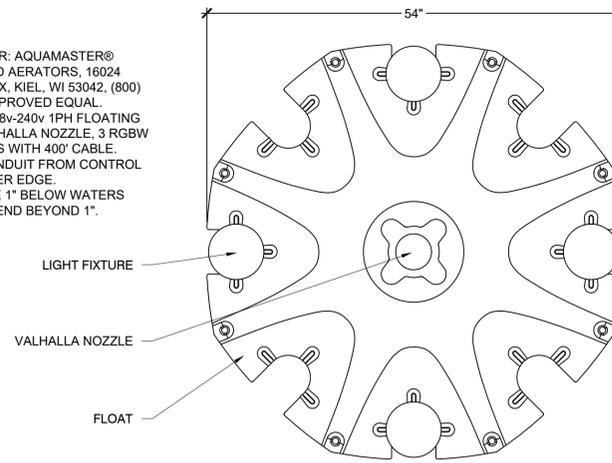
SHEET 39 OF 92

SD-104

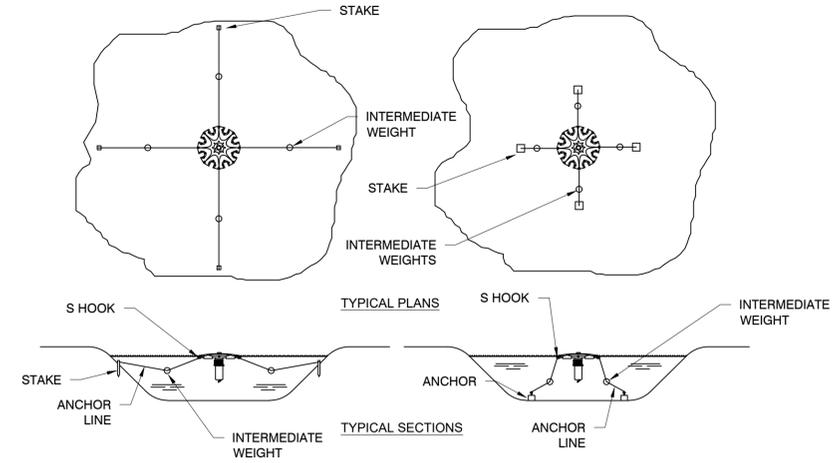


1 FLOATING FOUNTAIN
SD-104 SECTION NTS

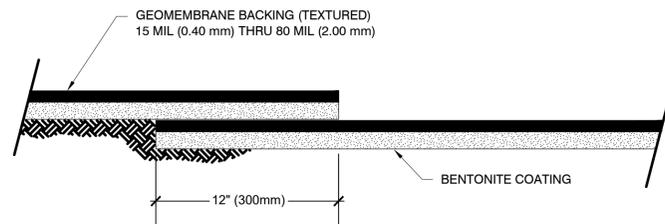
- NOTES:
1. MANUFACTURER: AQUAMASTER® FOUNTAINS AND AERATORS, 16024 COUNTY ROAD X, KIEL, WI 53042, (800) 693-3144 OR APPROVED EQUAL.
 2. MODEL: 2HP, 208v-240v 1PH FLOATING FOUNTAIN, VALHALLA NOZZLE, 3 RGBW LIGHT FIXTURES WITH 400' CABLE.
 3. PROVIDE 3" CONDUIT FROM CONTROL PANEL TO WATER EDGE.
 4. CONDUIT TO NE 1" BELOW WATERS EDGE AND EXTEND BEYOND 1".



2 FLOATING FOUNTAIN
SD-104 PLAN NTS



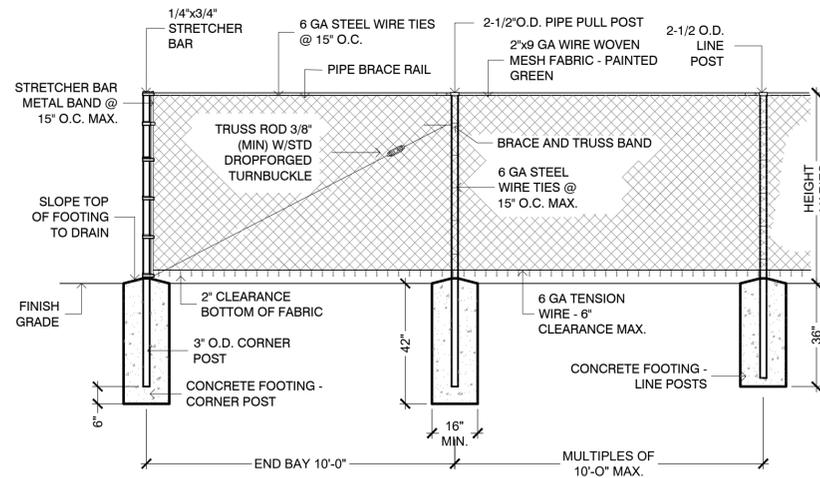
3 FLOATING FOUNTAIN ANCHORING DETAIL
SD-104 PLAND AND SECTIONS NTS



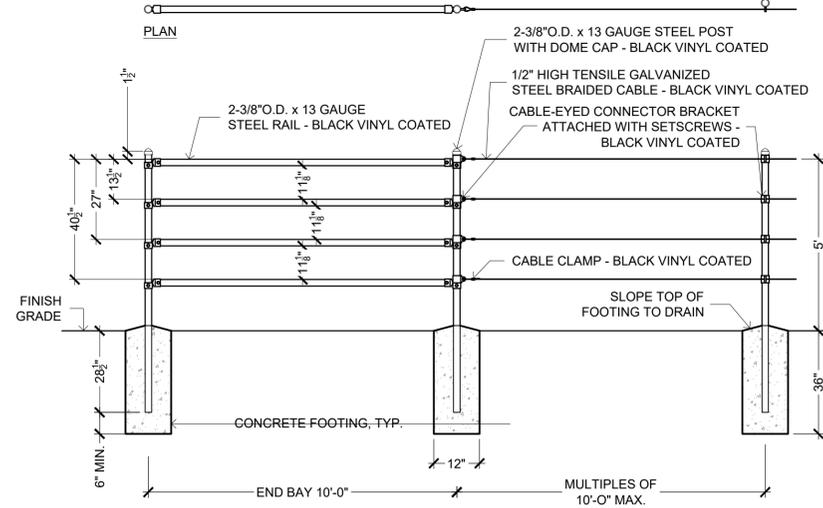
4 TYPICAL POND LINER AND OVERLAP SEAM DETAIL
SD-104 SECTION NTS

5 TYPICAL POND LINER TRENCH DETAIL
SD-104 SECTION NOT PROVIDED THIS SUBMITTAL NTS

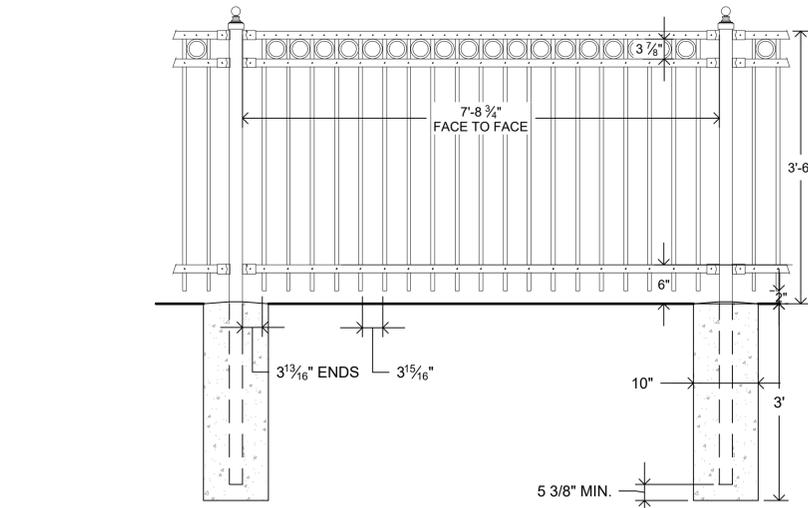
**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN



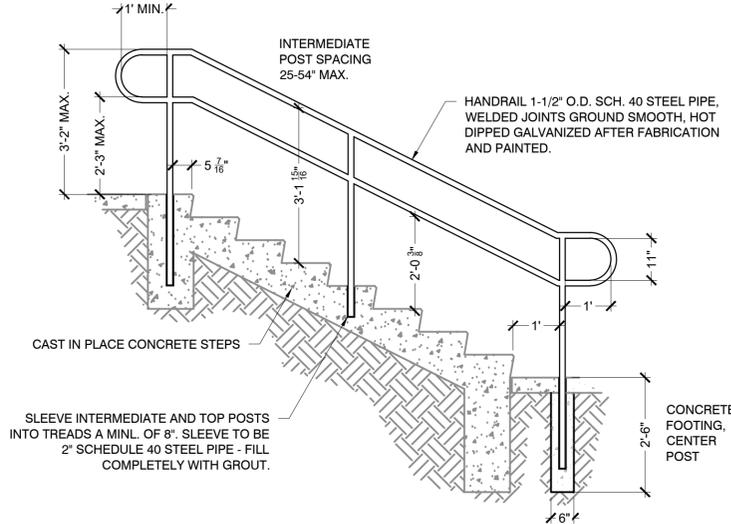
1 FENCE - CHAINLINK (FN1)
SD-103 SECTION NTS



2 FENCE - CABLE - TYPE 1 (FN2)
SD-103 SECTION NTS



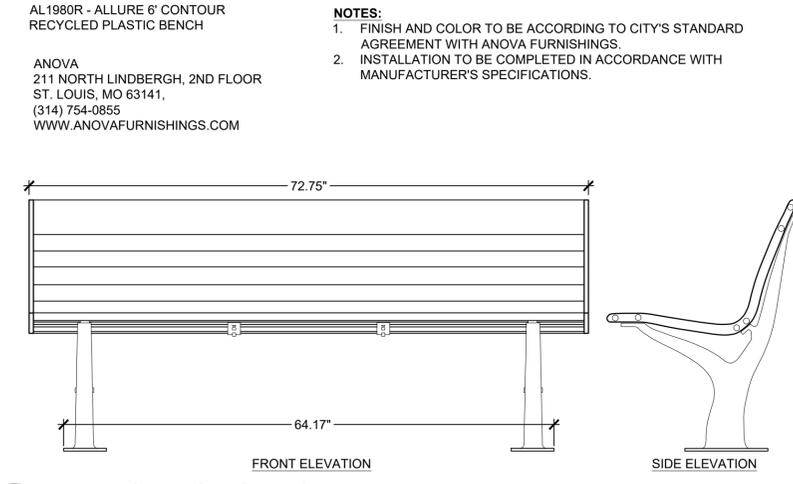
3 FENCE - ORNAMENTAL (FN3)
SD-103 SECTION NTS



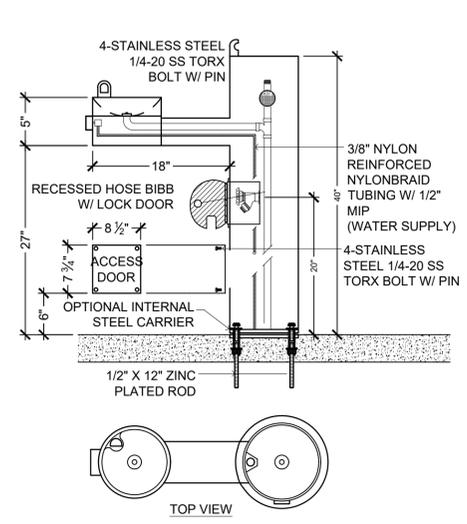
4 HANDRAIL - TYPE 1 (HD1)
SD-103 SECTION NTS



5 HANDRAIL - CABLE (HD2)
SD-103 SECTION NTS



6 BENCH (OPCI) (SF1)
SD-103 ELEVATION NTS



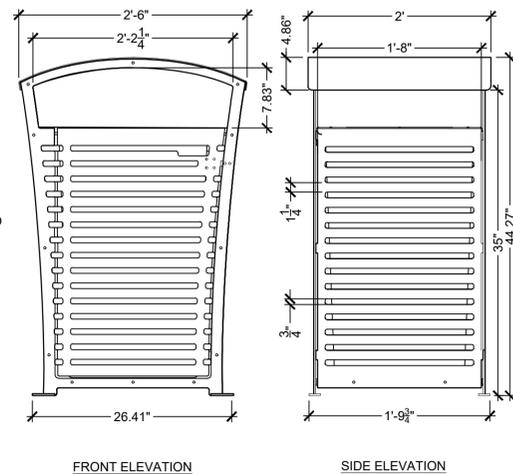
9 DRINKING FOUNTAIN (SF4)
SD-103 PLA, SECTION NTS

NOTES:
1. MANUFACTURER: MOST DEPENDABLE FOUNTAINS, INC. 5705 COMMANDER DR. P.O. BOX 587 ARLINGTON, TN 38002-0587 TOLL FREE: 1-800-552-6331 (901) 867-0039
OR APPROVED EQUAL.
2. MODEL #: 440 SM WITH OPTIONAL SS SURFACE CARRIER, RECESSED HB W/ LOCK DOOR.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. COLOR TO BE SELECTED BY OWNER FROM AVAILABLE STANDARD OPTIONS.

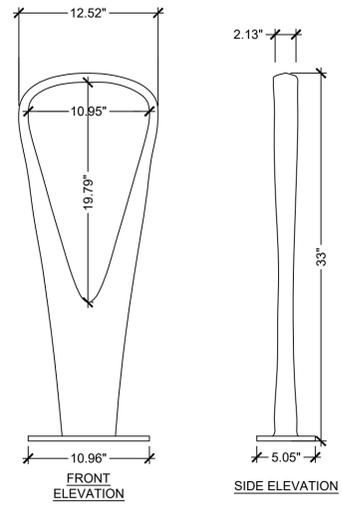
AL1980R - ALLURE 6' CONTOUR RECYCLED PLASTIC BENCH

ANOVA
211 NORTH LINDBERGH, 2ND FLOOR
ST. LOUIS, MO 63141,
(314) 754-0855
WWW.ANOVAFURNISHINGS.COM

NOTES:
1. FINISH AND COLOR TO BE ACCORDING TO CITY'S STANDARD AGREEMENT WITH ANOVA FURNISHINGS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



7 TRASH RECEPTACLE (OPCI) (SF2)
SD-103 ELEVATION NTS



8 BIKE RACK (OPCI) (SF3)
SD-103 ELEVATION NTS

AL19BR2 - ALLURE BIKE RACK

ANOVA
211 NORTH LINDBERGH, 2ND FLOOR
ST. LOUIS, MO 63141
(314) 754-0855

NOTES:
1. FINISH: FADE RESISTANT, POWDER COATED CAST ALUMINUM
2. MATERIAL: CORROSION RESISTANT CAST ALUMINUM.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

LEX45 - EXPOSITION 45 GALLON SIDE DOOR RECEPTACLE WITH BONNET TOP REF NUMBER 928-401

ANOVA
211 NORTH LINDBERGH, 2ND FLOOR
ST. LOUIS, MO 63141
(314) 754-0855
WWW.ANOVAFURNISHINGS.COM

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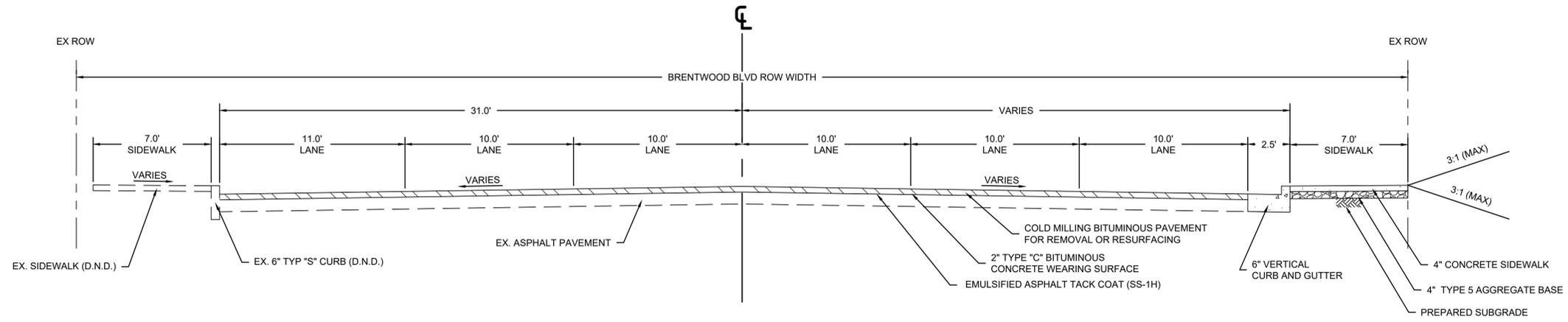
NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A FRANK

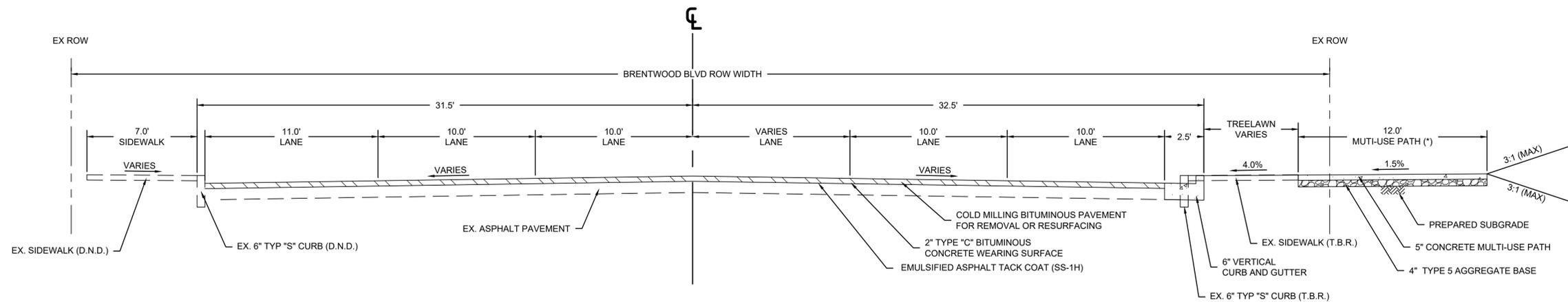
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH
SHEET 40 OF 92

SD-103



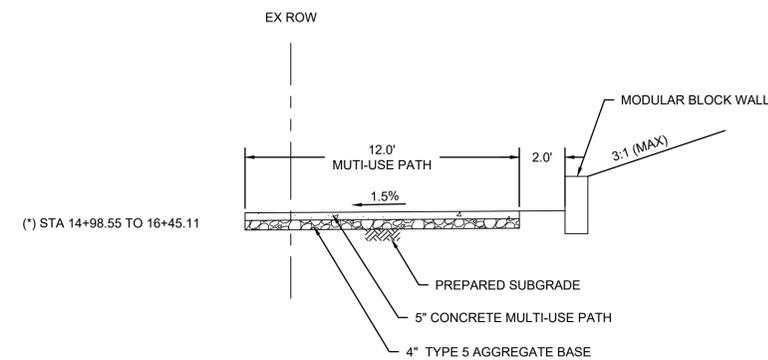
TYPICAL SECTION - BRENTWOOD BLVD

STA 10+96.17 TO STA 12+50.00
(NOT TO SCALE)



TYPICAL SECTION - BRENTWOOD BLVD

STA 12+50.00 TO STA 16+45.41
(NOT TO SCALE)



(*) STA 14+98.55 TO 16+45.11

Project #: MSD-XXXXX Basemap #21K

Jacobs

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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
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DATE: 14 AUGUST 2020

DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 41 OF 92

CD-101

OPERATOR: LAHAAS

DWG: C:\pwworking\jacobs_bdl\fig_ev\haas\10250507\Roadway\Plane (MS) 1815620.dwg
SAVE DATE: 8/14/2020 9:26:59 AM
PLOT DATE: 8/14/2020 9:34:26 AM

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
TYPICAL SECTIONS - BRAZEAU AVENUE

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
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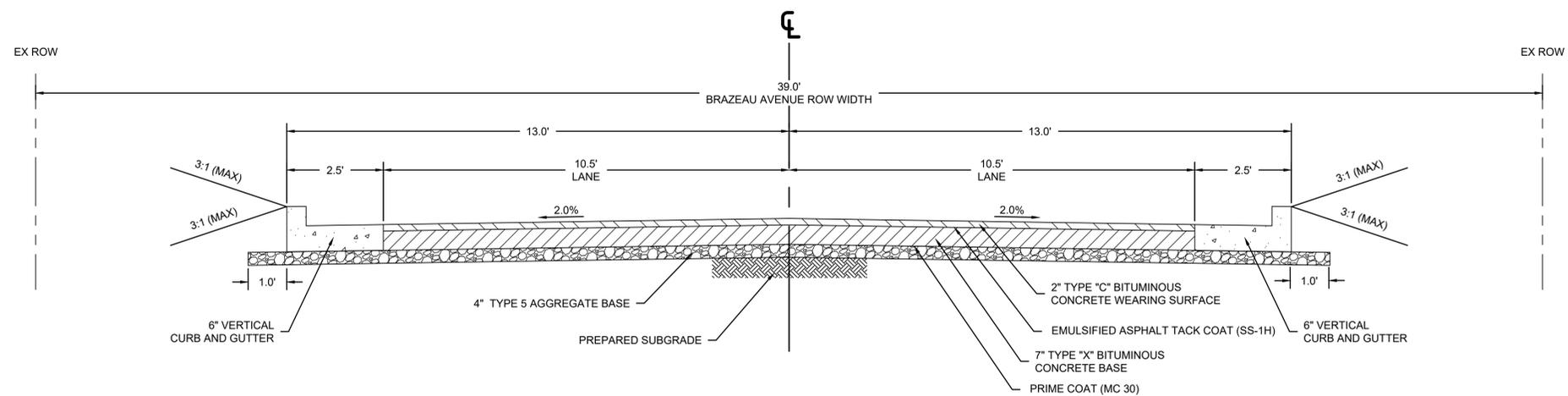
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DESIGNED: J. HAAS
DRAWN: J. HAAS
CHECKED: R. ASHRAFZADEH

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 42 OF 92

CD-102



TYPICAL SECTION - BRAZEAU AVENUE

STA 30+43 TO STA 35+75
(NOT TO SCALE)



LANDSCAPE NOTES

1. REFER TO DEMOLITION PLAN FOR REMOVAL OF EXISTING VEGETATION.
2. UNLESS OTHERWISE NOTED, ALL NATURAL VEGETATION SHALL BE MAINTAINED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION. PROTECT EXISTING UTILITIES, STRUCTURES OR VEGETATION FROM DAMAGE. CONTRACTOR SHALL MAINTAIN AND SECURE THE PROJECT SITE TO PROTECT THE PUBLIC FROM INJURY DUE TO WORK AND RELATED MATERIAL.
3. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS NOT PRESENTLY KNOWN OR SHOWN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE AND VERIFY THE EXISTENCE OF AND EXACT LOCATION OF ALL UTILITIES.
4. LANDSCAPE CONTRACTOR IS ADVISED TO STUDY THE PLANS AND VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
5. LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PROPOSED PLANT MATERIAL AND PLANTING BED EDGES FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. ALL PLANT MATERIAL SHALL BE WARRANTED FOR A PERIOD OF 12 MONTHS AFTER ACCEPTANCE BY OWNER.
7. CONTRACTOR SHALL STAKE AND BRACE TREES IMMEDIATELY FOLLOWING INSTALLATION ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS.
8. ALL PLANTING BED EDGES SHALL BE SPADE CUT UNLESS OTHERWISE INDICATED.
9. CONTRACTOR TO SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
10. ALL PLANT MATERIAL SHALL BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
11. ITEMS SHOWN ON THESE DRAWINGS TAKE PRECEDENCE OVER THE MATERIAL LIST. LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO BIDDING AND IMPLEMENTATION OF THE PLAN. NO SUBSTITUTIONS OF TYPES OR SIZE OF PLANT MATERIAL WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL BY OWNER'S REPRESENTATIVE.
12. ALL PLANT MATERIAL SHALL CONFORM TO UPPER RANGE LIMITS FOR CALIPER, HEIGHT AND ROOT BALL DIMENSIONS LISTED IN ANSI Z60.1-2014.
13. TOPSOIL SHALL BE SPREAD TO A DEPTH OF 6" TO ALL AREAS INDICATED TO RECEIVE SEEDING AND ANY AREA DISTURBED BY CONSTRUCTION THAT WILL RECEIVE RESTORATION SEEDING.



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 OVERALL
LANDSCAPE PLAN

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
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SHIFRIN**

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Planning Design Studio

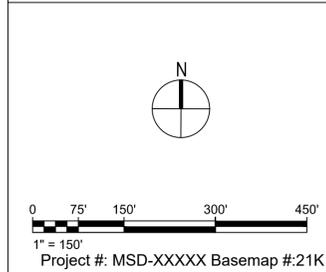
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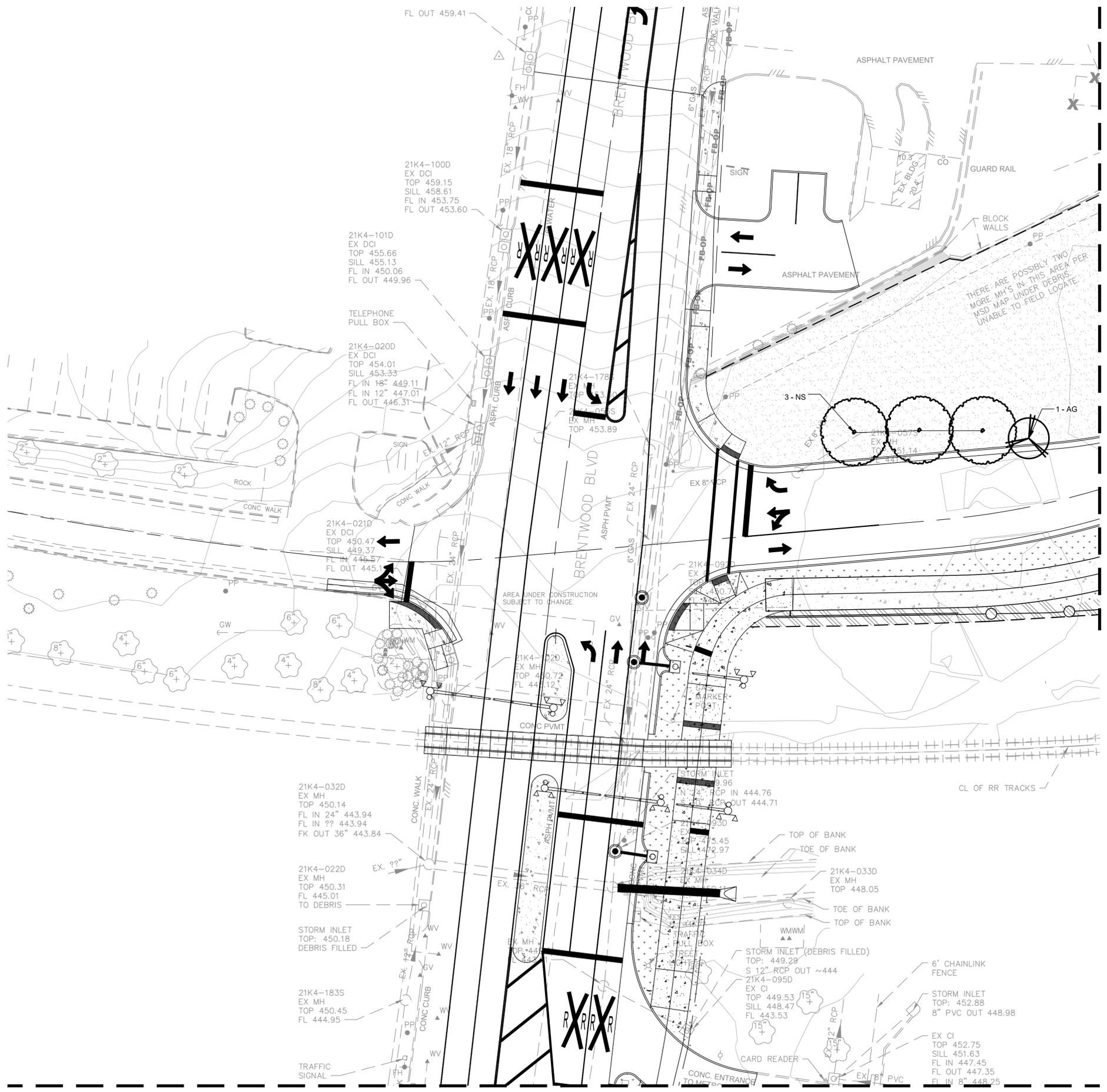
SCALES



NAME:	-
DISCIPLINE:	-
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DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
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CHECKED:	A. FRANKE
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET	43 OF 92
LP-101	

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 OPERATOR: JEFFNILGES

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 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 3:52:34 PM
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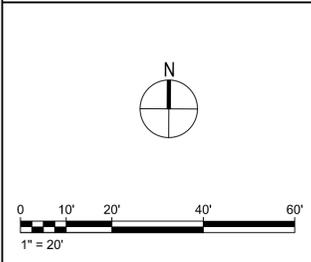
LANDSCAPE NOTES

- REFER TO DEMOLITION PLAN FOR REMOVAL OF EXISTING VEGETATION.
- UNLESS OTHERWISE NOTED, ALL NATURAL VEGETATION SHALL BE MAINTAINED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION. PROTECT EXISTING UTILITIES, STRUCTURES OR VEGETATION FROM DAMAGE. CONTRACTOR SHALL MAINTAIN AND SECURE THE PROJECT SITE TO PROTECT THE PUBLIC FROM INJURY DUE TO WORK AND RELATED MATERIAL.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS NOT PRESENTLY KNOWN OR SHOWN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE AND VERIFY THE EXISTENCE OF AND EXACT LOCATION OF ALL UTILITIES.
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- ALL PLANT MATERIAL SHALL BE WARRANTED FOR A PERIOD OF 12 MONTHS AFTER ACCEPTANCE BY OWNER.
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- ALL PLANTING BED EDGES SHALL BE SPADE CUT UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
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- ALL PLANT MATERIAL SHALL CONFORM TO UPPER RANGE LIMITS FOR CALIPER, HEIGHT AND ROOT BALL DIMENSIONS LISTED IN ANSI Z60.1-2014.
- TOPSOIL SHALL BE SPREAD TO A DEPTH OF 6" TO ALL AREAS INDICATED TO RECEIVE SEEDING AND ANY AREA DISTURBED BY CONSTRUCTION THAT WILL RECEIVE RESTORATION SEEDING.
- NO TREES (LIVE STAKED, BALLED AND BURLAPPED, OR RPM) SHOULD BE PLANTED OVER OR WITHIN THE 30 FEET EASEMENT FOR THE EXISTING / PROPOSED HORSESHOE SEWER LINE.

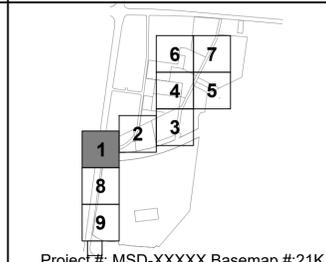
LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING	[Pattern]	CANOPY TREE	[Symbol]
TURF - SOD	[Pattern]	ORNAMENTAL TREE	[Symbol]
PERENNIAL/GROUNDCOVER	[Pattern]	LARGE SHRUB	[Symbol]
AMENDED SOIL AREA	[Pattern]	MEDIUM SHRUB	[Symbol]
PRAIRIE PLANTING	[Pattern]	LIMITS OF SEEDING	[Symbol]
BIORETENTION AREA	[Pattern]		

SCALES



KEY PLAN



**GREAT RIVERS GREENWAY
 CONNECTOR PROJECT**
 60% DESIGN
 LANDSCAPE PLAN
 BRENTWOOD BLVD/BRAZEAU AV.



NO.	DATE	REVISION

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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
CHECKED:	-
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	44 OF 92

LP-201

MATCHLINE - REFER TO SHEET LP-204 FOR CONTINUATION



LANDSCAPE NOTES

1. REFER TO DEMOLITION PLAN FOR REMOVAL OF EXISTING VEGETATION.
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6. ALL PLANT MATERIAL SHALL BE WARRANTED FOR A PERIOD OF 12 MONTHS AFTER ACCEPTANCE BY OWNER.
7. CONTRACTOR SHALL STAKE AND BRACE TREES IMMEDIATELY FOLLOWING INSTALLATION ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS.
8. ALL PLANTING BED EDGES SHALL BE SPADE CUT UNLESS OTHERWISE INDICATED.
9. CONTRACTOR TO SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
10. ALL PLANT MATERIAL SHALL BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
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LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING		CANOPY TREE	
TURF - SOD		ORNAMENTAL TREE	
PERENNIAL/GROUNDCOVER		LARGE SHRUB	
AMENDED SOIL AREA		MEDIUM SHRUB	
PRAIRIE PLANTING		LIMITS OF SEEDING	
BIORETENTION AREA			



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 LANDSCAPE PLAN
 NORM WEST PARK



JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020



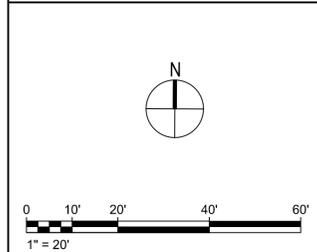
P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

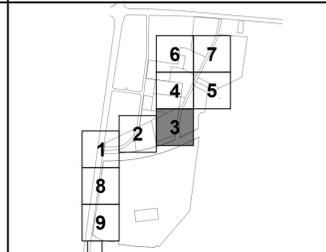
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 NOT FOR
 CONSTRUCTION**

SCALES



KEY PLAN



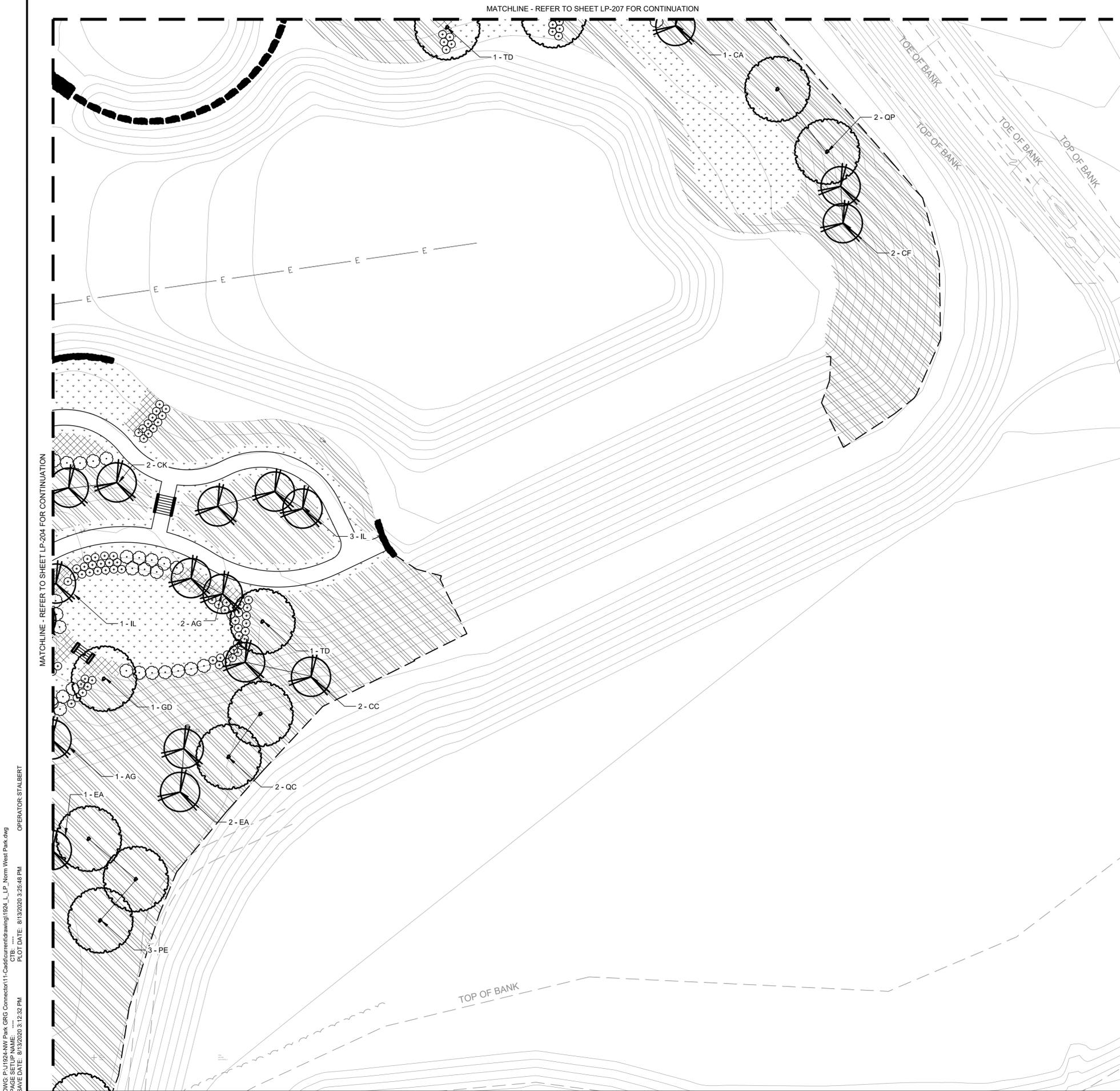
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DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
CHECKED:	-
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	46 OF 92

LP-203

Project #: MSD-XXXXX Basemap #21K

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 OPERATOR: STALBERT

MATCHLINE - REFER TO SHEET LP-202 FOR CONTINUATION



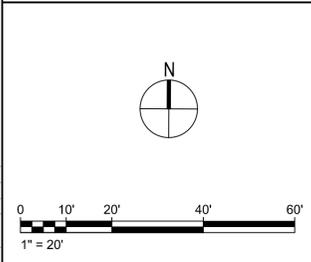
LANDSCAPE NOTES

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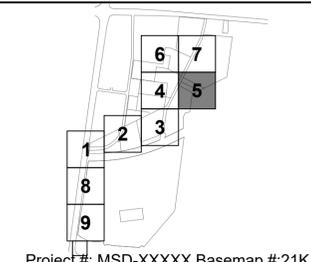
LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING		CANOPY TREE	
TURF - SOD		ORNAMENTAL TREE	
PERENNIAL/GROUNDCOVER		LARGE SHRUB	
AMENDED SOIL AREA		MEDIUM SHRUB	
PRAIRIE PLANTING		LIMITS OF SEEDING	
BIORETENTION AREA			

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 LANDSCAPE PLAN
 NORM WEST PARK



NO.	DATE	REVISION

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
CHECKED:	-
HS JOB NO.	1815600
JACOBS JOB NO.	707841CH
SHEET	48 OF 92

LP-205

DWG: F:\11924\NW Park GRG Connector\11-Cad\current\drawing\1924_LP_Norm West Park.dwg
 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 3:26:48 PM
 SAVE DATE: 8/13/2020 3:12:32 PM



- ### LANDSCAPE NOTES
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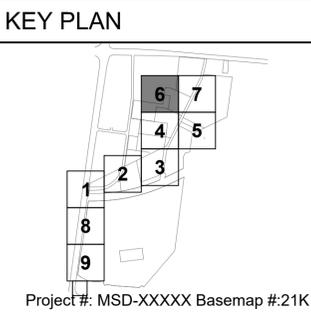
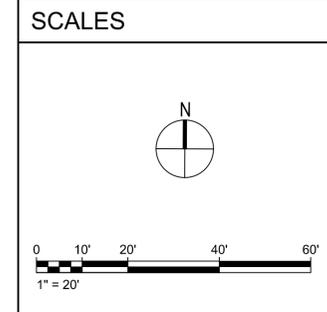
LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING		CANOPY TREE	
TURF - SOD		ORNAMENTAL TREE	
PERENNIAL/GROUNDCOVER		LARGE SHRUB	
AMENDED SOIL AREA		MEDIUM SHRUB	
PRAIRIE PLANTING		LIMITS OF SEEDING	
BIORETENTION AREA			

NO.	DATE	REVISION

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**PRELIMINARY
NOT FOR
CONSTRUCTION**



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
LANDSCAPE PLAN
NORM WEST PARK



DWG: P:\1924\NW Park GRG Connector\11-Cadd\cadd\drawing\1924_LP_Norm West Park.dwg
 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 3:28:05 PM
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LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING		CANOPY TREE	
TURF - SOD		ORNAMENTAL TREE	
PERENNIAL/GROUNDCOVER		LARGE SHRUB	
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PRAIRIE PLANTING		LIMITS OF SEEDING	
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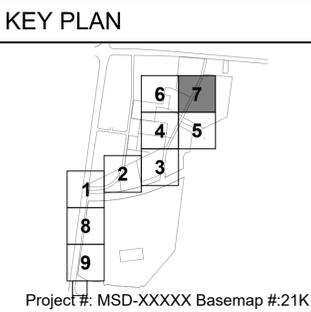
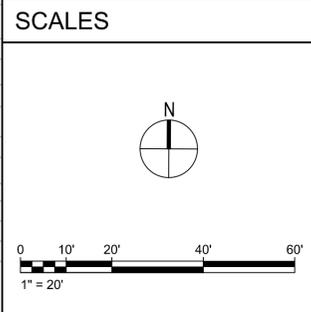
GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 LANDSCAPE PLAN
 NORM WEST PARK



NO.	DATE	REVISION

PRELIMINARY
 NOT FOR
 CONSTRUCTION

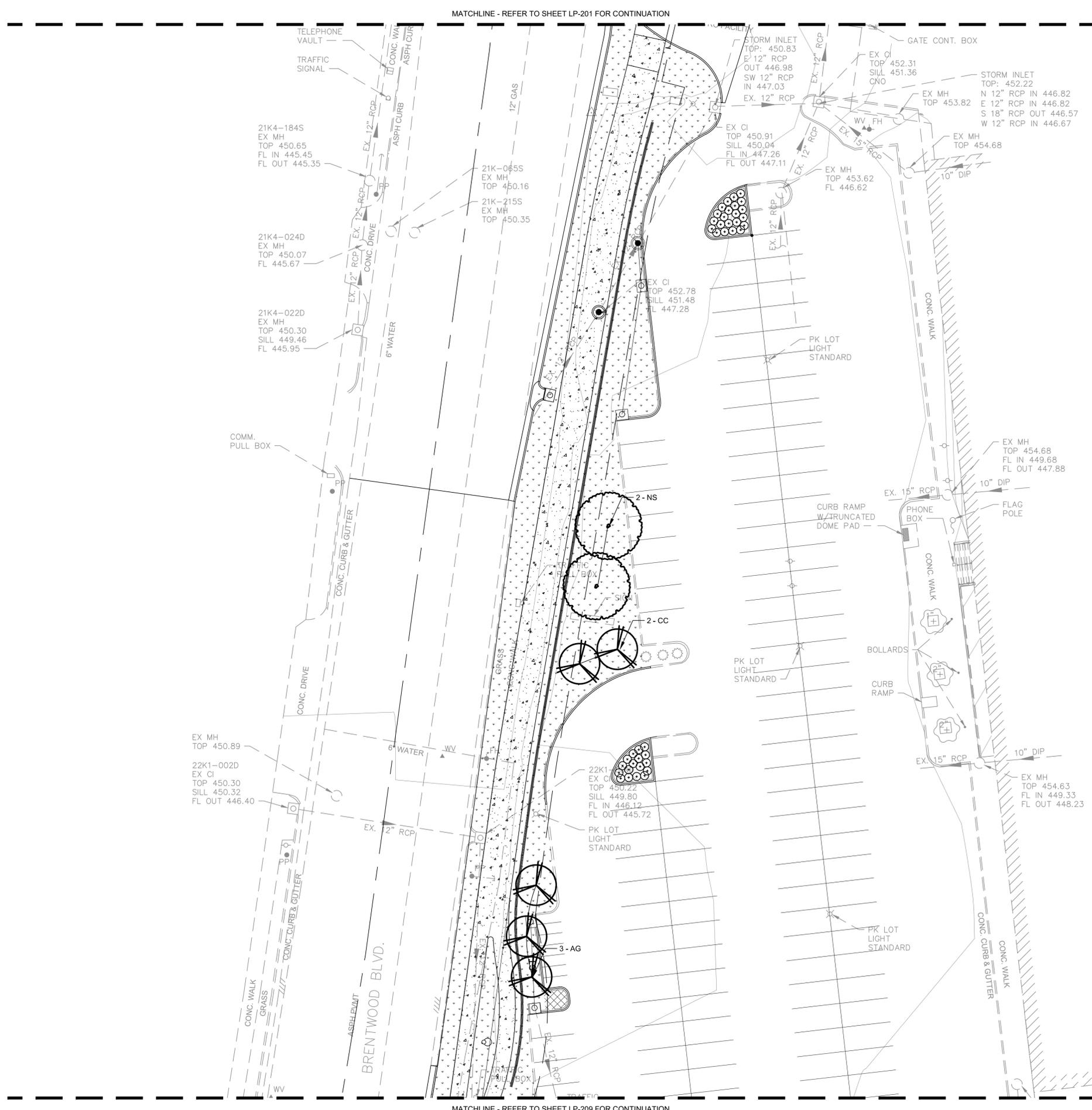
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LICENSE NO.:	-
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DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
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HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	50 OF 92



Project #: MSD-XXXXX Basemap #21K

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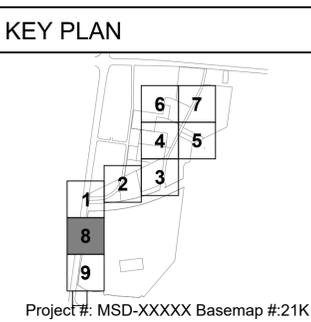
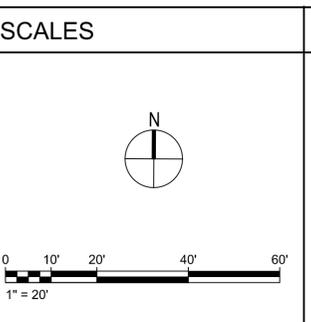


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- ALL PLANTING BED EDGES SHALL BE SPADE CUT UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
- ALL PLANT MATERIAL SHALL BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
- ITEMS SHOWN ON THESE DRAWINGS TAKE PRECEDENCE OVER THE MATERIAL LIST. LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO BIDDING AND IMPLEMENTATION OF THE PLAN. NO SUBSTITUTIONS OF TYPES OR SIZE OF PLANT MATERIAL WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL BY OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL SHALL CONFORM TO UPPER RANGE LIMITS FOR CALIPER, HEIGHT AND ROOT BALL DIMENSIONS LISTED IN ANSI Z60.1-2014.
- TOPSOIL SHALL BE SPREAD TO A DEPTH OF 6" TO ALL AREAS INDICATED TO RECEIVE SEEDING AND ANY AREA DISTURBED BY CONSTRUCTION THAT WILL RECEIVE RESTORATION SEEDING.
- NO TREES (LIVE STAKED, BALLED AND BURLAPPED, OR RPM) SHOULD BE PLANTED OVER OR WITHIN THE 30 FEET EASEMENT FOR THE EXISTING / PROPOSED HORSESHOE SEWER LINE.

LANDSCAPE LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
TURF - SEEDING		CANOPY TREE	
TURF - SOD		ORNAMENTAL TREE	
PERENNIAL/GROUNDCOVER		LARGE SHRUB	
AMENDED SOIL AREA		MEDIUM SHRUB	
PRAIRIE PLANTING		LIMITS OF SEEDING	
BIORETENTION AREA			



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 LANDSCAPE PLAN
 BRENTWOOD BLVD/BRAZEAU AV.



NO.	DATE	REVISION

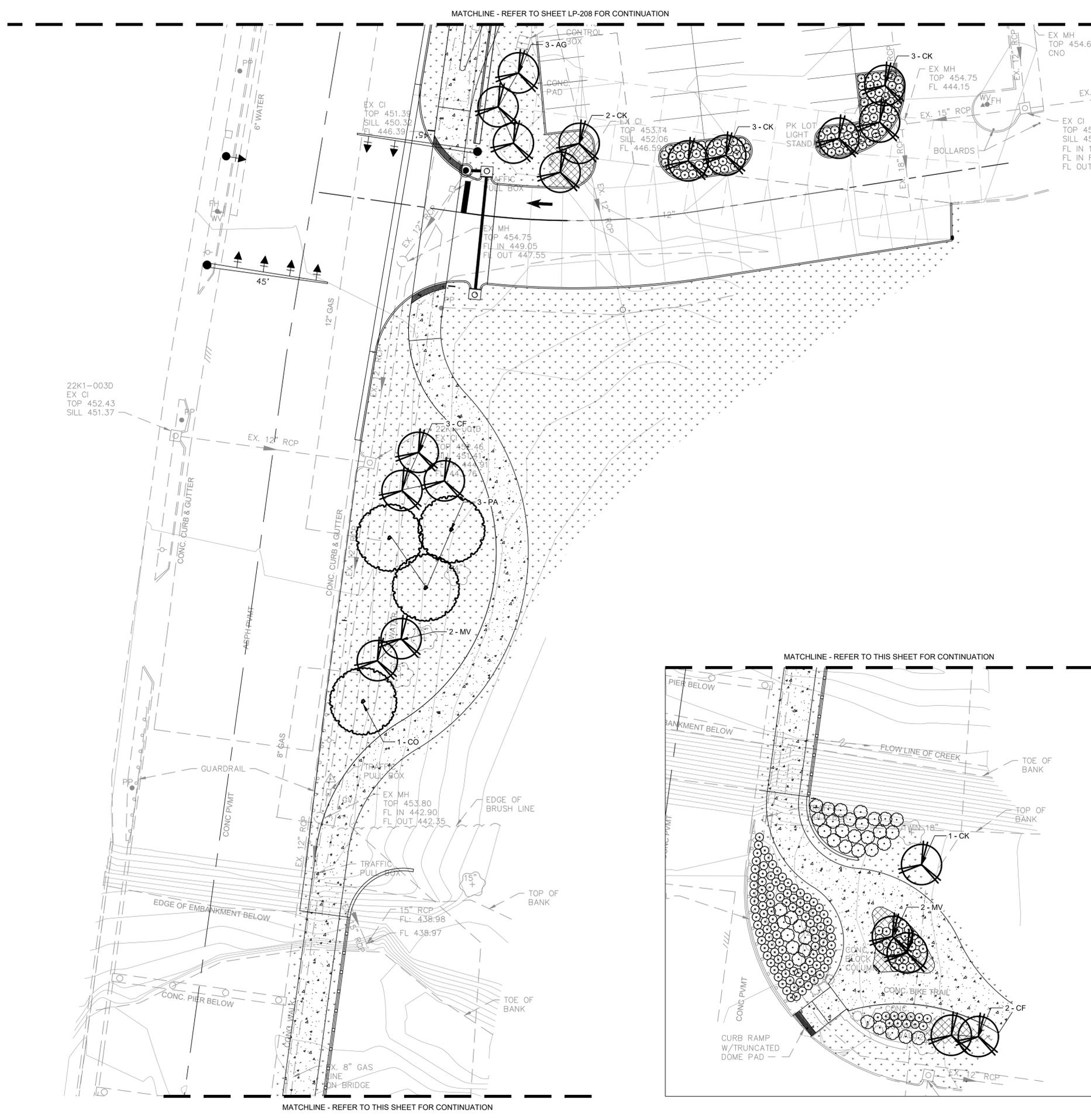
**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
CHECKED:	-
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	51 OF 92

LP-208

Project #: MSD-XXXXX Basemap #21K

DWG: P:\1924\NY Park GRG Connector\11-Cad\current\drawing\1924_LP_Norm West Park.dwg
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 OPERATOR: STALBERT

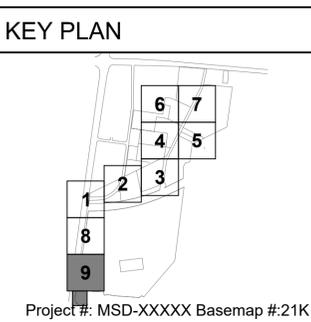
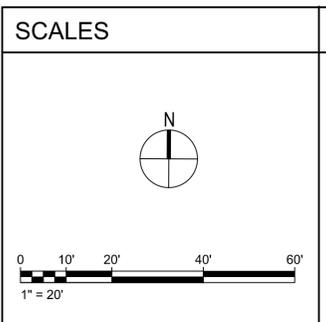


LANDSCAPE NOTES

- REFER TO DEMOLITION PLAN FOR REMOVAL OF EXISTING VEGETATION.
- UNLESS OTHERWISE NOTED, ALL NATURAL VEGETATION SHALL BE MAINTAINED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION. PROTECT EXISTING UTILITIES, STRUCTURES OR VEGETATION FROM DAMAGE. CONTRACTOR SHALL MAINTAIN AND SECURE THE PROJECT SITE TO PROTECT THE PUBLIC FROM INJURY DUE TO WORK AND RELATED MATERIAL.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS NOT PRESENTLY KNOWN OR SHOWN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE AND VERIFY THE EXISTENCE OF AND EXACT LOCATION OF ALL UTILITIES.
- LANDSCAPE CONTRACTOR IS ADVISED TO STUDY THE PLANS AND VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PROPOSED PLANT MATERIAL AND PLANTING BED EDGES FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL SHALL BE WARRANTED FOR A PERIOD OF 12 MONTHS AFTER ACCEPTANCE BY OWNER.
- CONTRACTOR SHALL STAKE AND BRACE TREES IMMEDIATELY FOLLOWING INSTALLATION ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS.
- ALL PLANTING BED EDGES SHALL BE SPADE CUT UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
- ALL PLANT MATERIAL SHALL BE TAGGED OR OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. APPROVAL IN THE NURSERY DOES NOT INDICATE FINAL ACCEPTANCE.
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PRAIRIE PLANTING		LIMITS OF SEEDING	
BIORETENTION AREA			



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 LANDSCAPE PLAN
 BRENTWOOD BLVD/BRAZEAU AV.

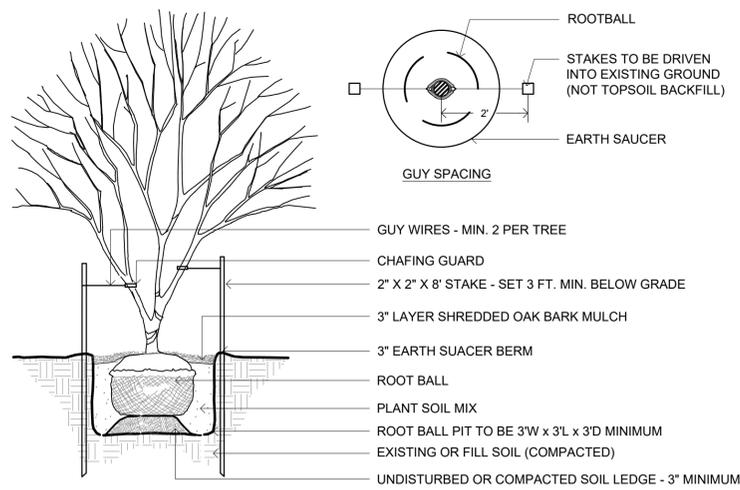


NO.	DATE	REVISION

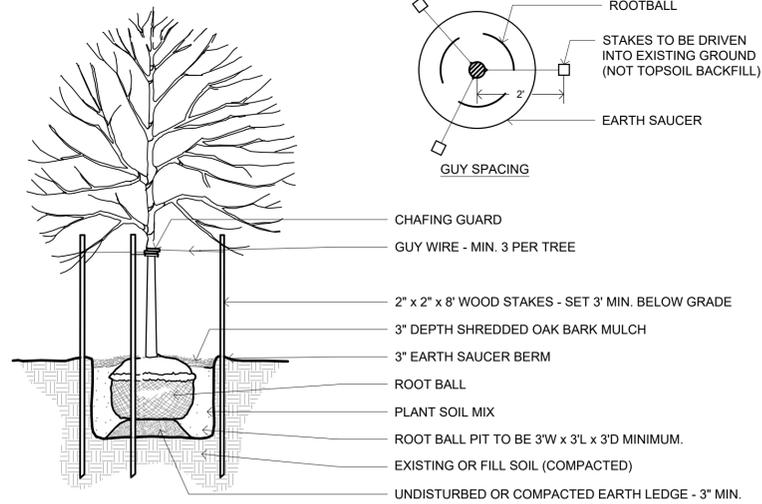
PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	-
DRAWN:	-
CHECKED:	-
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	52 OF 92

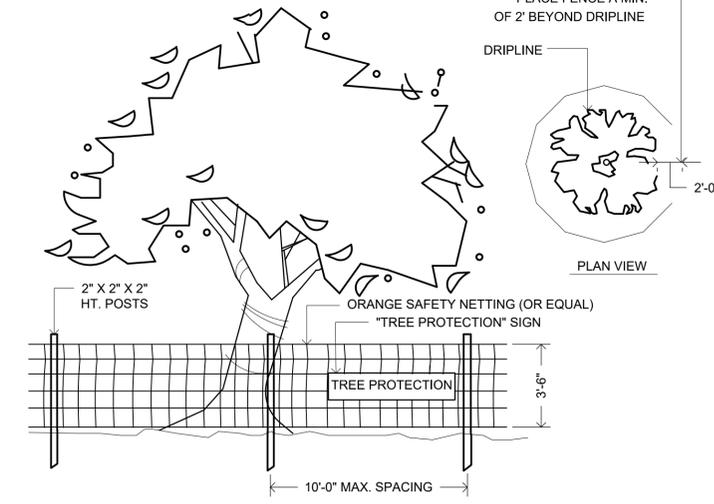
LP-209



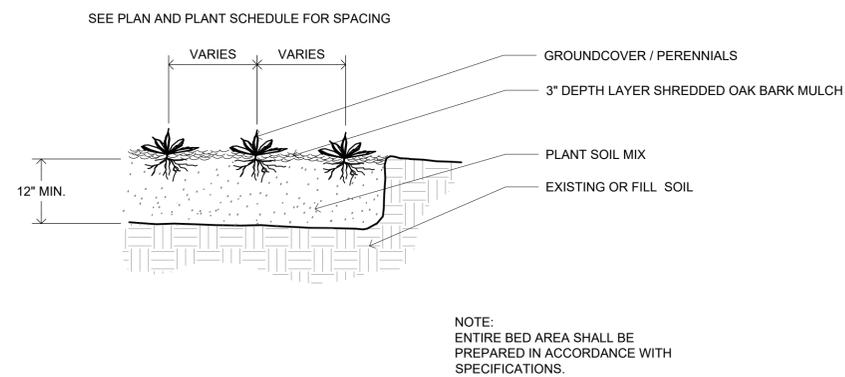
1 ORNAMENTAL TREE PLANTING - BALLED AND BURLAPPED
NTS



2 CANOPY TREE PLANTING - BALLED AND BURLAPPED
NTS



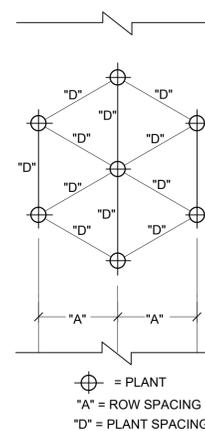
3 TREE PROTECTION
NTS



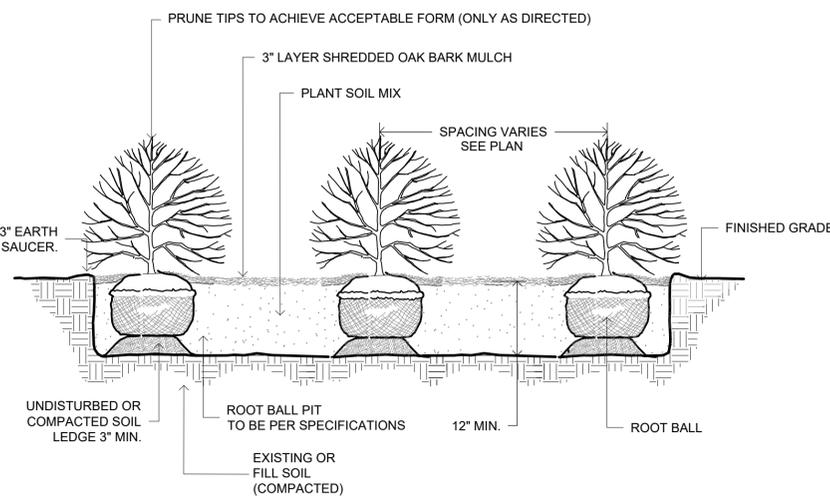
4 GROUNDCOVER AND PERENNIAL PLANTING
NTS

FOR USE WITH ALL PLANT TYPES SPACED EQUIDISTANTLY

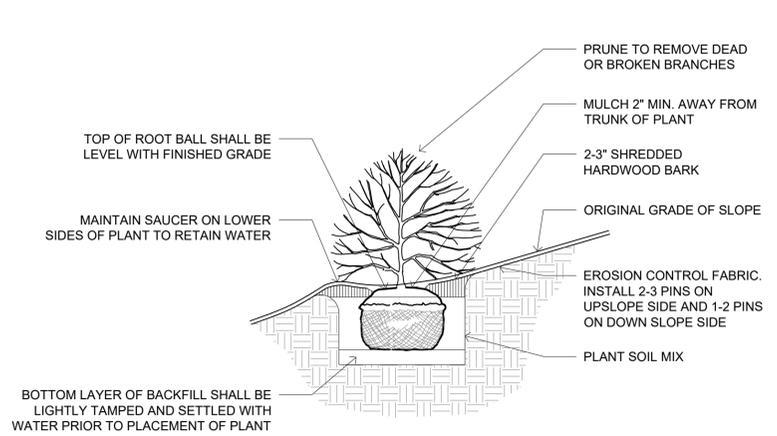
SPACING "D"	ROW "A"	NO. OF PLANTS	AREA UNIT
10" O.C.	8.66"	1.66	1 sq. ft.
12" O.C.	10.4"	1.15	
15" O.C.	13.0"	7.38	10 sq. ft.
18" O.C.	15.6"	5.12	
24" O.C.	20.8"	2.9	
30" O.C.	26.0"	1.85	
36" O.C.	30.0"	1.28	
4' O.C.	4.33'	4.61	100 sq. ft.
6' O.C.	5.2'	3.2	
8' O.C.	6.93'	1.8	
10' O.C.	8.66'	1.16	



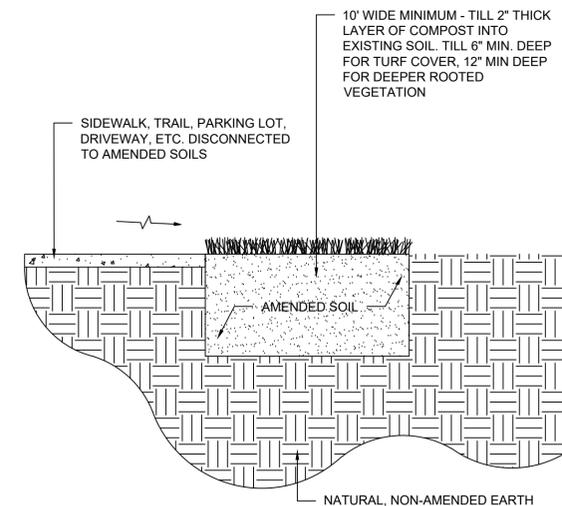
5 PLANT SPACING
NTS



6 DECIDUOUS SHRUB PLANTING
NTS



7 SHRUB PLANTING ON SLOPE
NTS



- NOTES:**
- TILL SOIL SUBGRADE PRIOR TO COMPOST ADDITION, AND TILL AFTER COMPOST ADDITION.
 - CLEAN ALL OBJECTS LARGER THAN 2" FROM AMENDED SOIL AREA.
 - FOR TURF COVER, COMPLETE WITH FINE GRADING AND SODDING IN ACCORDANCE WITH MSD STANDARD SPECIFICATIONS.
 - SEE COMPOST SPECIFICATION FOR COMPOST MATERIAL PROPERTIES AND TESTING REQUIREMENTS.

8 AMENDED SOIL DISCONNECT
NTS

NO.	DATE	REVISION

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

PRELIMINARY NOT FOR CONSTRUCTION

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -
DATE: 14 AUGUST 2020
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH
SHEET 53 OF 92

DWG: P:\11924\N\Park GRG Connector\11-Cad\cadd\drawing\1924_L_Landscape Details.dwg
OPERATOR: STALBERT
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SAVE DATE: 8/13/2020 10:40:03 AM

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 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 11:12:07 AM
 SAVE DATE: 8/13/2020 11:11:53 AM

PLANT LIST				QUANTITY										
KEY	COMMON NAME	BOTANICAL NAME	PLANTING RATE	TYPE	LP-201	LP-202	LP-203	LP-204	LP-205	LP-206	LP-207	LP-208	LP-209	TOTAL
	LO PRO MESIC PRAIRIE WITH FLOWERS MIX		76 LBS/AC	SQUARE YARDS										
SHRUBS														
	CHOKEBERRY	ARONIA MELANOCARPA		5 GAL										
	BOTTLEBRUSH BUCKEYE	AESCLUS PARVIFLORA		5 GAL										
	BUTTERFLY WEED	ASCLEPIAS TUBEROSA		5 GAL										
	SKY BLUE ASTER	ASTER OBLONGIFOLIUS		5 GAL										
	WHITE WILD INDIGO	BAPTISIA LEUCANTHA (ALBA)		5 GAL										
	AMERICAN BEAUTYBERRY	CALLICARPA AMERICANA		5 GAL										
	SWEET SHRUB	CALYCANTHUS FLORIDUS		5 GAL										
	BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS		5 GAL										
	PAGODA DOGWOOD	CORNUS ALTERNIFOLIA		5 GAL										
	ROUGH DOGWOOD	CORNUS DRUMMONDII		5 GAL										
	GRAY DOGWOOD	CORNUS RACEMOSA		5 GAL										
	MIDWINTER FIRE DOGWOOD	CONUS SERICEA 'MIDWINTER FIRE'		5 GAL										
	SPRING BLOOMING WITCHHAZEL	HAMAMELIS VERNALIS		5 GAL										
	WITCHHAZEL	HAMAMELIS VIRGINIANA		5 GAL										
	SHRUBBY ST. JOHN'S WORT	HYPERICUM PROLIFICUM		5 GAL										
	JIM DANDY WINTERBERRY	ILEX VERTICILLATA 'JIM DANDY'		5 GAL										
	RED SPRITE WINTERBERRY	ILEX VERTICILLATA 'RED SPRITE'		5 GAL										
	SOUTHERN GENTLEMAN WINTERBERRY	ILEX VERTICILLATA 'SOUTERN GENTLEMAN'		5 GAL										
	WINTER RED HOLLY	ILEX VERTICILLATA 'WINTER RED'		5 GAL										
	DWARF CRAPE MYRTLE	LAGERSTROEMIA X 'RAZZLEDAZZLE'		5 GAL										
	SPICEBUSH	LINDERA BENZOIN		5 GAL										
	COMMON NINEBARK	PHYSOCARPUS OPULIFOLIUS		5 GAL										
	MUGO PINE	PINUS MUGO		5 GAL										
	FRAGRANT SUMAC	RHUS AROMATICA		5 GAL										
	GRO-LOW FRAGRANT SUMAC	RHUS AROMATICA 'GRO-LOW'		5 GAL										
	PRAIRIE WILLOW	SALIX HUMILIS		5 GAL										
	ELDERBERRY	SAMBUCUS CANADENSIS		5 GAL										
	BLACKHAW VIBURNUM	VIBURNUM PRUNIFOLIUM		5 GAL										
	MOHAWK VIBURNUM	VIBURNUM X BURKWOODII 'MOHAWK'		5 GAL										
ORNAMENTAL GRASSES														
	BLONDE AMBITION BLUE GRAMA	BOUTELOUA GRACILIS 'BLONDE AMBITION'		1 GAL										
	SIDE-OATS GRAMA	BOUTELOUA CURTIPENDULA		1 GAL										
	FOX SEDGE	CAREX VULPINOIDEA		1 GAL										
	PURPLE PRAIRIE CLOVER	DALEA PURPUREA		1 GAL										
	SOFT RUSH	JUNCUS EFFUSUS		1 GAL										
	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM		1 GAL										
	SHENANDOAH SWITCHGRASS	PANICUM VIRGATUM 'SHENANDOAH'		1 GAL										
	HEAVY METAL SWITHGRASS	PANICUM VIRGATUM 'HEAVY METAL'		1 GAL										
	PRAIRIE DROPSEED	SPOROBOLUS HETEROLEPIS		1 GAL										
LIVE STAKES														
	BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	2' OC	4' TALL										
	SILKY DOGWOOD	CORNUS OBLIQUA	2' OC	4' TALL										
	REDOsier DOGWOOD	CORNUS SERICEA	2' OC	4' TALL										
	COMMON NINEBARK	PHYSOCARPUS OPULIFOLIUS	2' OC	4' TALL										
	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	2' OC	4' TALL										
	PEACH LEAVED WILLOW	SALIX AMYGDALOIDES	2' OC	4' TALL										
	SANDBAR WILLOW	SALIX EXIGUA SSP. INTERIOR	2' OC	4' TALL										
	BLACK WILLOW	SALIX NIGRA	2' OC	4' TALL										
CANOPY TREES														
	CO COMMON HACKBERRY	CELTIS OCCIDENTALIS												
	GD ESPRESSO KENTUCKY COFFEE TREE	GYMNOCLADUS DIOICA 'ESPRESSO'												
	LT TULIP TREE	LIRIODENDRON TULIPIFERA												
	MA CUCUMBERTREE MAGNOLIA	MAGNOLIA ACUMINATA												
	NS WILDFIRE BLACK GUM	NYSSA SYLVATICA 'WILDFIRE'												
	PA EXCLAMATION LONDON PLANETREE	PLATANUS X ACERIFOLIA 'EXCLAMATION'												
	QB SWAMP WHITE OAK	QUERCUS BICOLOR												
	QC SCARLET OAK	QUERCUS COCCINEA												
	QM CHINKAPIN OAK	QUERCUS MUEHLENBERGII												
	QP WILLOW OAK	QUERCUS PHELLOS												
	QR NORTHERN RED OAK	QUERCUS RUBRA												
EVERGREEN TREES														
	IL POSSUMHAW HOLLY	IIEX DECIDUA												
	PE SHORT LEAF PINE	PINUS ECHINATA												
	TD BALD CYPRESS	TAXODIUM DISTICHUM												
FLOWERING TREES														
	AG AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'												
	CA APPALACHIAN RED EASTERN REDBUD	CERCIS CANADENSIS 'APPALACHIAN RED'												
	CC EASTERN REDBUD	CERCIS CANADENSIS												
	CK SWEET SHADE AMERICAN YELLOWWOOD	CLADRASTIS KENTUKEA 'SWEET SHADE'												
	CF FIREWORKS FLOWERING DOGWOOD	CORNUS KOUSA 'FIREWORKS'												
	EA EASTERN WAHOO	EUONYMUS ATROPURPUREUS												
	MV SWEET BAY MAGNOLIA	MAGNOLIA VIRGINIANA AUSTRALIS												

LO PRO MESIC PRAIRIE WITH FLOWERS MIX		
A SHORTER GRASS, SEDGE, AND FORB MIX FOR AVERAGE TO GOOD SOILS. BEST DORMANT SEEDED.		
BOTANICAL NAME	COMMON NAME	LB/AC
AMORPHA CANESCENS	LEADPLANT	0.063
BAPTISIA LACTEA (B ALBA MACROPHYLLA)	WHITE INDIGO	0.063
BOUTELOUA CURTIPENDULA	SIDE OATS GRAMMA	3.000
CAREX ANNECTENS	YELLOW-FRUITED SEDGE	0.063
CAREX BICKNELLII	BICKNELLS SEDGE	0.125
CAREX BREVIOR	SHORTER SEDGE	0.125
CAREX MOLESTA	FIELD OVAL SEDGE	0.125
CHAMAECRISTA FASCICULATA (CASSIA F)	PARTRIDGE PEA	0.125
DALEA PURUREA (PETALOSTEMUM P)	PURPLE PRAIRIE CLOVER	0.063
DRYMOCALLIS ARGUTA (POTENTILLA A)	PRAIRIE CINQUEFOIL	0.063
ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	0.281
ELYMUS CANADENSIS	CANADA RYE	1.000
ELYMUS TRACHYCAULUS (AGROPYRON T)	SLENDER WHEATGRASS	1.000
ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	0.188
HELIOPSIS HELIANTHOIDES	EARLY SUNFLOWER	0.125
HYPERICUM ASCYRON (H PYRAMIDATUM)	GREAT ST JOHN'SWORT	0.125
LESPEDEZA CAPITATA	ROUNDHEAD BUSHCLOVER	0.125
LIATRIS ASPERA	BUTTON BLAZING STAR	0.125
LIATRIS PYCNOSTACHYA	PRAIRIE BLAZINGSTAR	0.188
MONARDA FISTULOSA	BERGAMONT	0.031
OLIGONEURON RIDDELLII (SOLIDAGO R)	RIDDELL'S GOLDENROD	0.125
OLIGONEURON RIGIDUM (SOLIDAGO R)	STIFF GOLDENROD	0.125
PANICUM VIRGATUM	SWITCH GRASS	0.063
PARTHENIUM INTEGRIFOLIUM	WILD QUININE	0.188
PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	0.125
PHYSOSTEGIA VIRGINIANA	FALSE DRAGONHEAD	0.063
PYCNANTHEMUM TENUIFOLIUM	SLENDER MT MINT	0.063
RATIBIDA PINNATA	YELLOW CONEFLOWER	0.125
ROSA BLANDA	EARLY WILD ROSE	0.031
RUDBECKIA HIRTA	BLACKEYED SUSAN	0.500
RUDBECKIA SUBTOMENTOSA	SWEET CONEFLOWER	0.125
SCHIZACHYRIUM SCOPARIUM (ANDROPOGON S)	LITTLE BLUESTEM	3.000
SILPHIUM INTEGRIFOLIUM	ROSNWEEED	0.188
SOLIDAGO NEMORALIS	OLDFIELD GOLDENROD	0.125
SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	0.250
SYMPHYOTRICHUM LAEVE (ASTER L)	SMOOTH BLUE ASTER	0.063
SYMPHYOTRICHUM NOVAE-ANGLIAE (ASTER N)	NEW ENGLAND ASTER	0.063
SYMPHYOTRICHUM OOIENTANGIENSE (ASTER AZUREUS)	SKY BLUE ASTER	0.063
TRADESCANTIA OHIENSIS	OHIO SPIDERWORT	0.125
VERBENA STRICTA	HOARY VERVAIN	0.125
VERNONIA FASCICULATA	COMMON IRONWEED	0.188
VERNONIA MISSURICA	MISSOURI IRONWEED	0.063
VERONICASTRUM VIRGINICUM	CULVERS PHYSIC	0.006
TOTAL		12.791
PERMANENT MATRIX		12.791



GREAT RIVERS GREENWAY
CONNECTOR PROJECT
 60% DESIGN
LANDSCAPE SCHEDULE

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

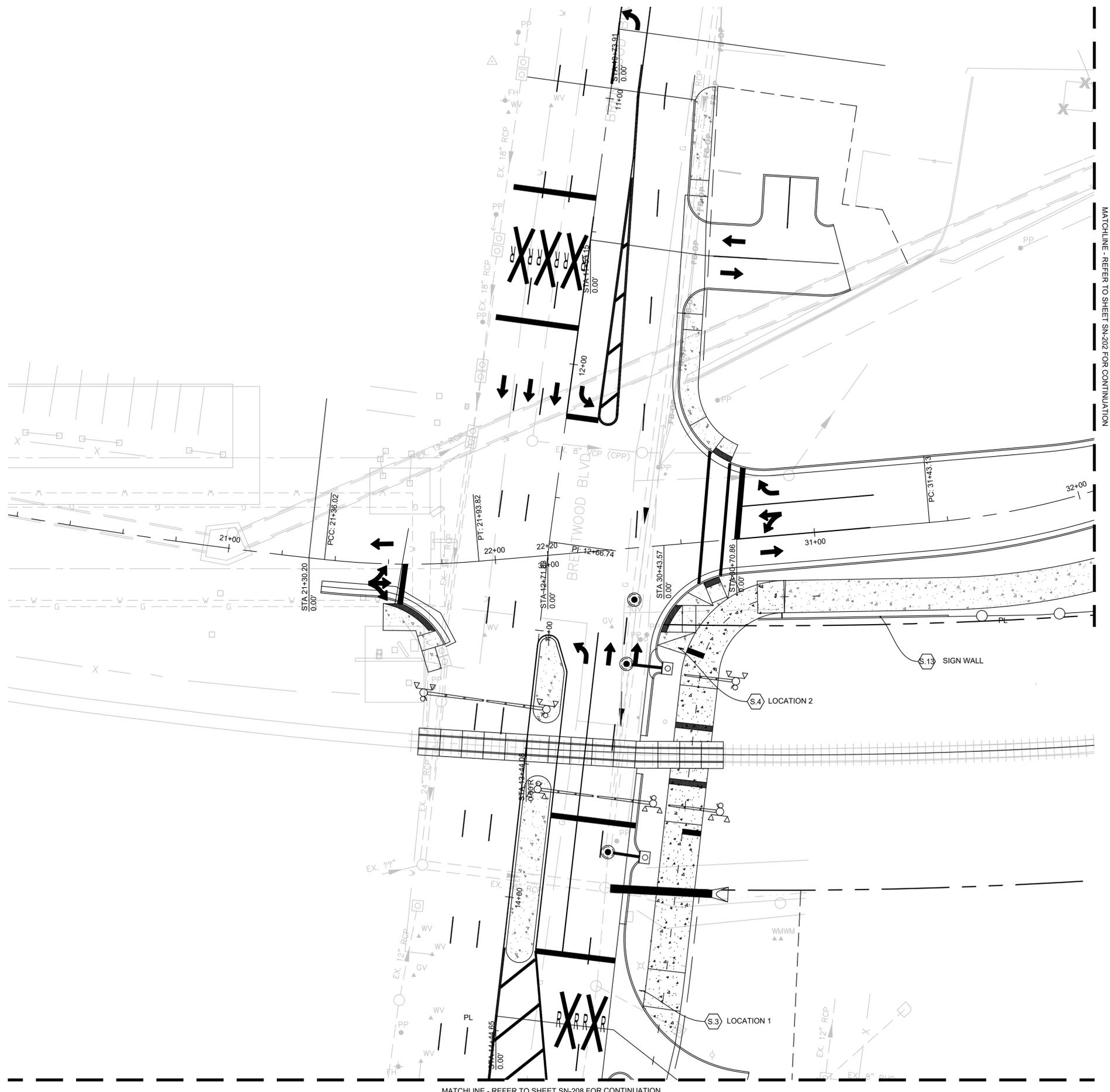
NO.	DATE	REVISION

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 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A. FRANK
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 54 OF 92

LD-102

DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_Signage_GRG-Con.dwg
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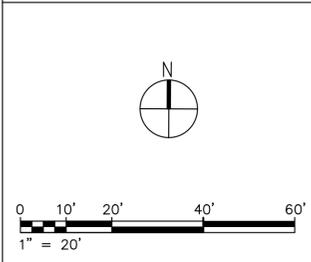
SIGNAGE PLAN NOTES

- 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 OTHER UTILITIES PRESENT, 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 DAMAGE THERETO. DIG RITE SHALL BE CONTACTED TO LOCATE PUBLIC UTILITIES.
- THE SIGNS INDICATED ON THESE PLANS ARE BASED ON TWO SIGNAGE STANDARDS: 1) GREAT RIVERS GREENWAY EXTERIOR SIGN DESIGN STANDARDS, 2019, AND 2) BRENTWOOD PARK SIGNAGE CONSTRUCTION DOCUMENT, NOVEMBER 15, 2010. THESE STANDARDS SHOULD BE REFERENCED WHEN COMPLETING ALL SHOP DRAWINGS AND SUBMITTALS.
- ALL TRAIL SIGN TYPES MUST BE LOCATED WITH A MINIMUM OF 1'-6" CLEARANCE BETWEEN THE TRAIL EDGE AND THE NEAREST EDGE OF ANY SIGN ELEMENT. 2'-0" CLEARANCE IS DESIRABLE WHERE AVAILABLE. 3'-0" IS THE MAXIMUM DISTANCE BETWEEN SIGN EDGE AND TRAIL.
- ARTWORK FOR MAIN TRAILHEAD KIOSK SIGNS TO BE PROVIDED BY GREAT RIVERS GREENWAY. THE SIGN DRAWINGS SHOW DESIGN INTENT ONLY. THE SIGN CONTRACTOR IS RESPONSIBLE FOR FABRICATION AND INSTALLATION OF THE SIGNS SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND ENGINEERING OF ALL STRUCTURAL, ATTACHMENT, ANCHORING AND FOUNDATION FEATURES.
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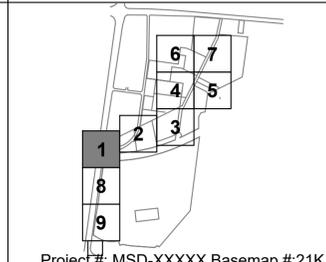
KEYED NOTES

DESCRIPTION	SYMBOL
(IN-1) MSD INTERPRETIVE SIGN - DTL X, SHT X	(S.1)
(KX-1) MAIN TRAILHEAD KIOSK - DTL 2, SHT X	(S.2)
(RX-1) REGULATORY - CAUTION - DTL 1, SHT X	(S.3)
(GX-6) MULTI-DIRECTIONAL (DOUBLE SIDED) - DTL 3, SHT X	(S.4)
ADA PARKING - DTL X, SHT X	(S.5)
MSD PERMEABLE PARKING - DTL X, SHT X	(S.6)
EXISTING SPEED LIMIT SIGN TO REMAIN	(S.7)
GRG GRAPHIC TREATMENT OF BARRIER WALL - DTL X, SHT X	(S.8)
TUNNEL COLUMN SIGNAGE (2 PER TUNNEL FACE) CUSTOM METAL INSERT DTL X, SHT X	(S.9)
NEW BRIDGE WEIGHT SIGN - DTL X, SHT X	(S.10)
EXISTING COUNTY ADOPT A ROAD SIGN	(S.11)
ADJUST / RELOCATE EXISTING TRAIL BLAZER SIGN	(S.12)
SIGN WALL SHT X	(S.13)

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 BRENTWOOD BOULEVARD/NORM WEST PARK



JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020



P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

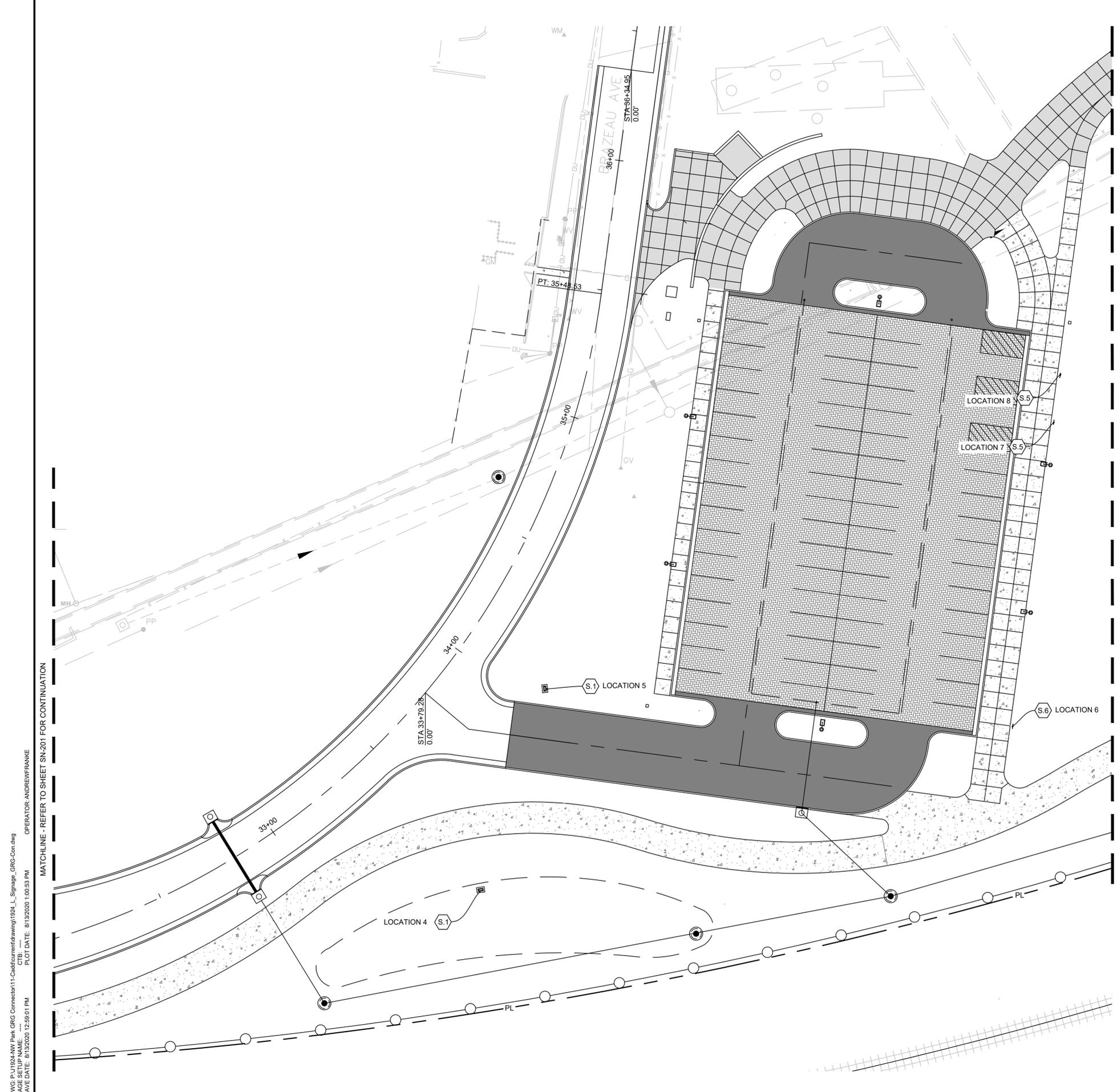
THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKIE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 55 OF 92

SN-201

Project #: MSD-XXXXX Basemap #21K



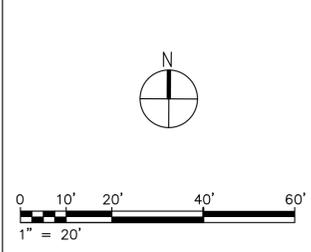
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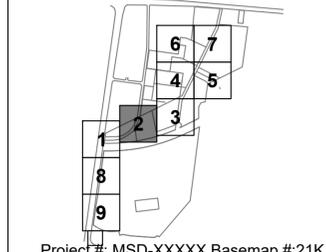
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(IN-1) MSD INTERPRETIVE SIGN - DTL X, SHT X	(S.1)		
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EXISTING SPEED LIMIT SIGN TO REMAIN	(S.7)		
GRG GRAPHIC TREATMENT OF BARRIER WALL - DTL X, SHT X	(S.8)		
TUNNEL COLUMN SIGNAGE (2 PER TUNNEL FACE) CUSTOM METAL INSERT DTL X, SHT X	(S.9)		
NEW BRIDGE WEIGHT SIGN - DTL X, SHT X	(S.10)		
EXISTING COUNTY ADOPT A ROAD SIGN	(S.11)		
ADJUST / RELOCATE EXISTING TRAIL BLAZER SIGN	(S.12)		
SIGN WALL SHT X	(S.13)		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 NORM WEST PARK



NO.	DATE	REVISION

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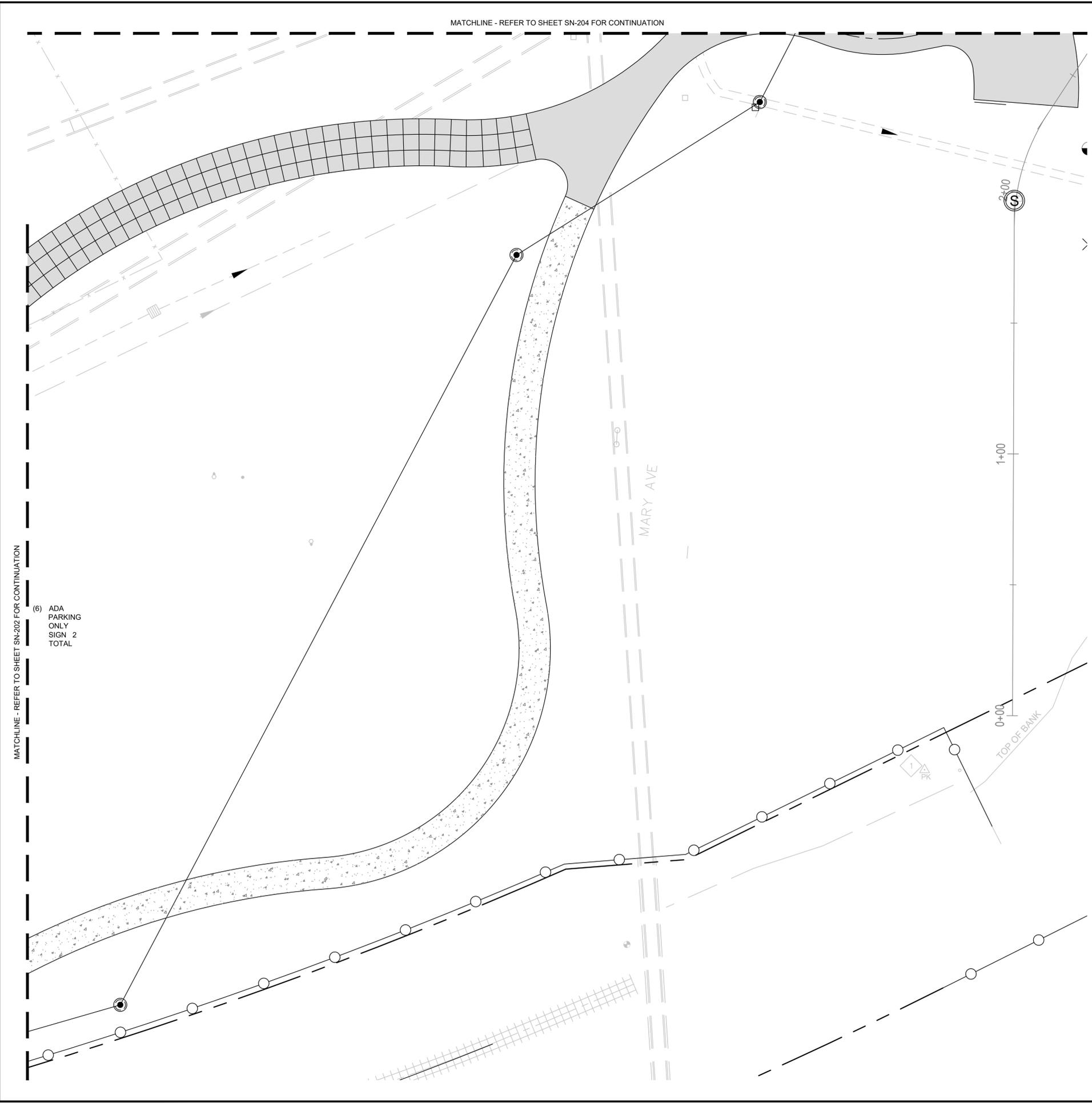
**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKIE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 56 OF 92

SN-202

DWG: F:\11924\NW Park GRG Connector\11-Cad\current\drawing\11924_L_Signage_GRG-Con.dwg
 OPERATOR: ANDREWFRANKE
 PLOT DATE: 8/13/2020 12:58:01 PM
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 MATCHLINE - REFER TO SHEET SN-203 FOR CONTINUATION

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 OPERATOR: ANDREWFRANKE



SIGNAGE PLAN NOTES

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EXISTING SPEED LIMIT SIGN TO REMAIN	(S.7)		
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TUNNEL COLUMN SIGNAGE (2 PER TUNNEL FACE) CUSTOM METAL INSERT DTL X, SHT X	(S.9)		
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SIGN WALL SHT X	(S.13)		



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 NORM WEST PARK

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN
 401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020

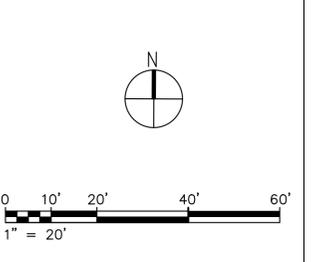
PDS
 Planning Design Studio
 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

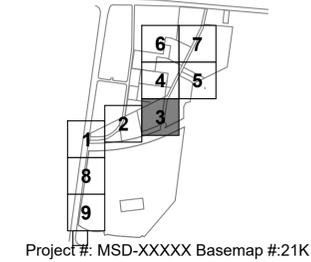
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PRELIMINARY NOT FOR CONSTRUCTION

SCALES



KEY PLAN



NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANK

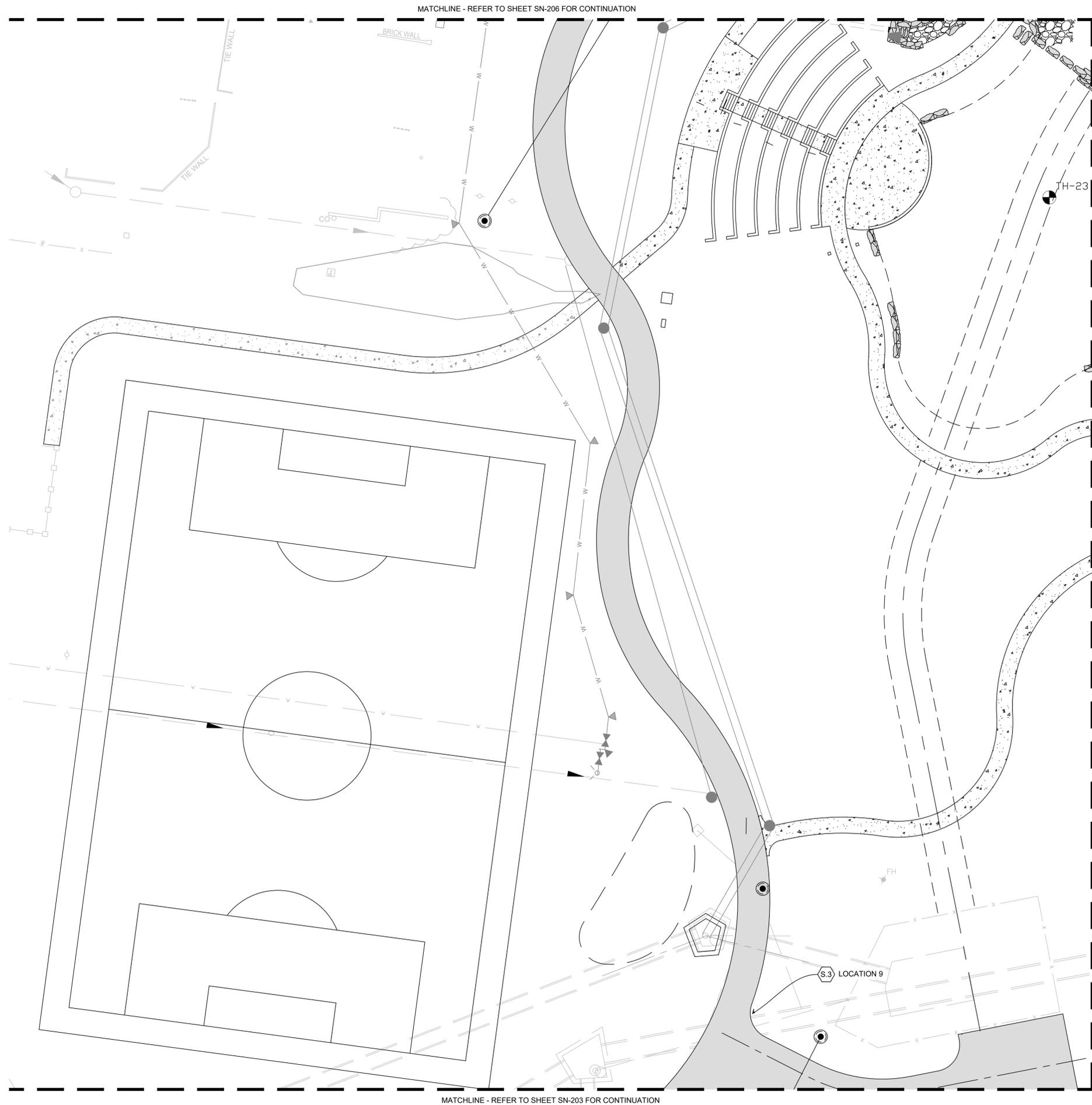
HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH

SHEET 57 OF 92

SN-203

Project #: MSD-XXXXX Basemap #21K

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 OPERATOR: JEFFNILGES



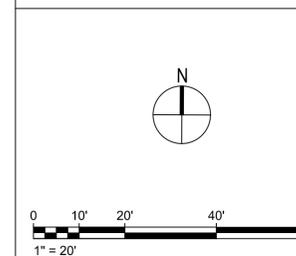
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KEYED NOTES

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- (GX-6) MULTI-DIRECTIONAL (DOUBLE SIDED) - DTL 3, SHT X S.4
- ADA PARKING - DTL X, SHT X S.5
- MSD PERMEABLE PARKING - DTL X, SHT X S.6
- EXISTING SPEED LIMIT SIGN TO REMAIN S.7
- GRG GRAPHIC TREATMENT OF BARRIER WALL - DTL X, SHT X S.8
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- NEW BRIDGE WEIGHT SIGN - DTL X, SHT X S.10
- EXISTING COUNTY ADOPT A ROAD SIGN S.11
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SCALES



KEY PLAN



Project #: MSD-XXXXX Basemap #21K



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 NORM WEST PARK



NO.	DATE	REVISION

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PRELIMINARY
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NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
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DATE: 14 AUGUST 2020

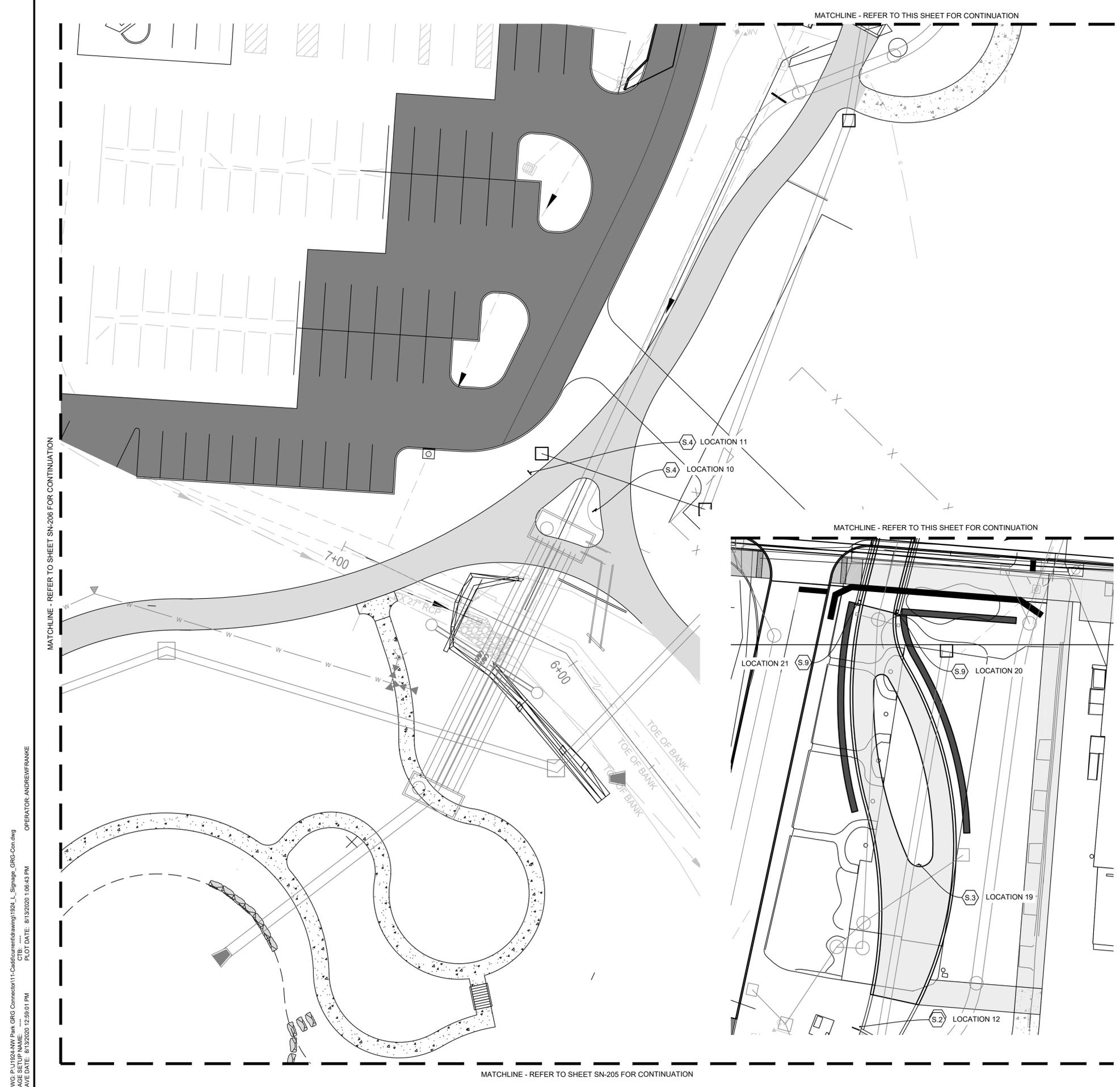
DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANK

HS JOB NO. 1815600

JACOBS JOB NO. 707841CH

SHEET 58 OF 92

SN-204



SIGNAGE PLAN NOTES

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EXISTING SPEED LIMIT SIGN TO REMAIN	(S.7)		
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GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 NORM WEST PARK

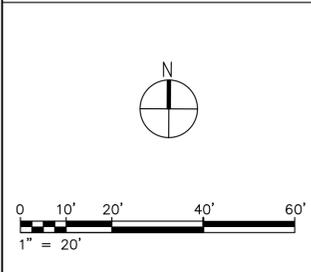


NO.	DATE	REVISION

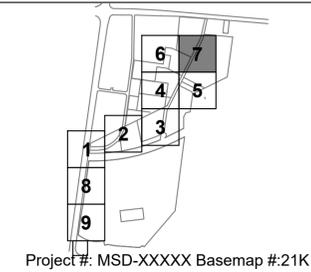
THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

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CONSTRUCTION

SCALES



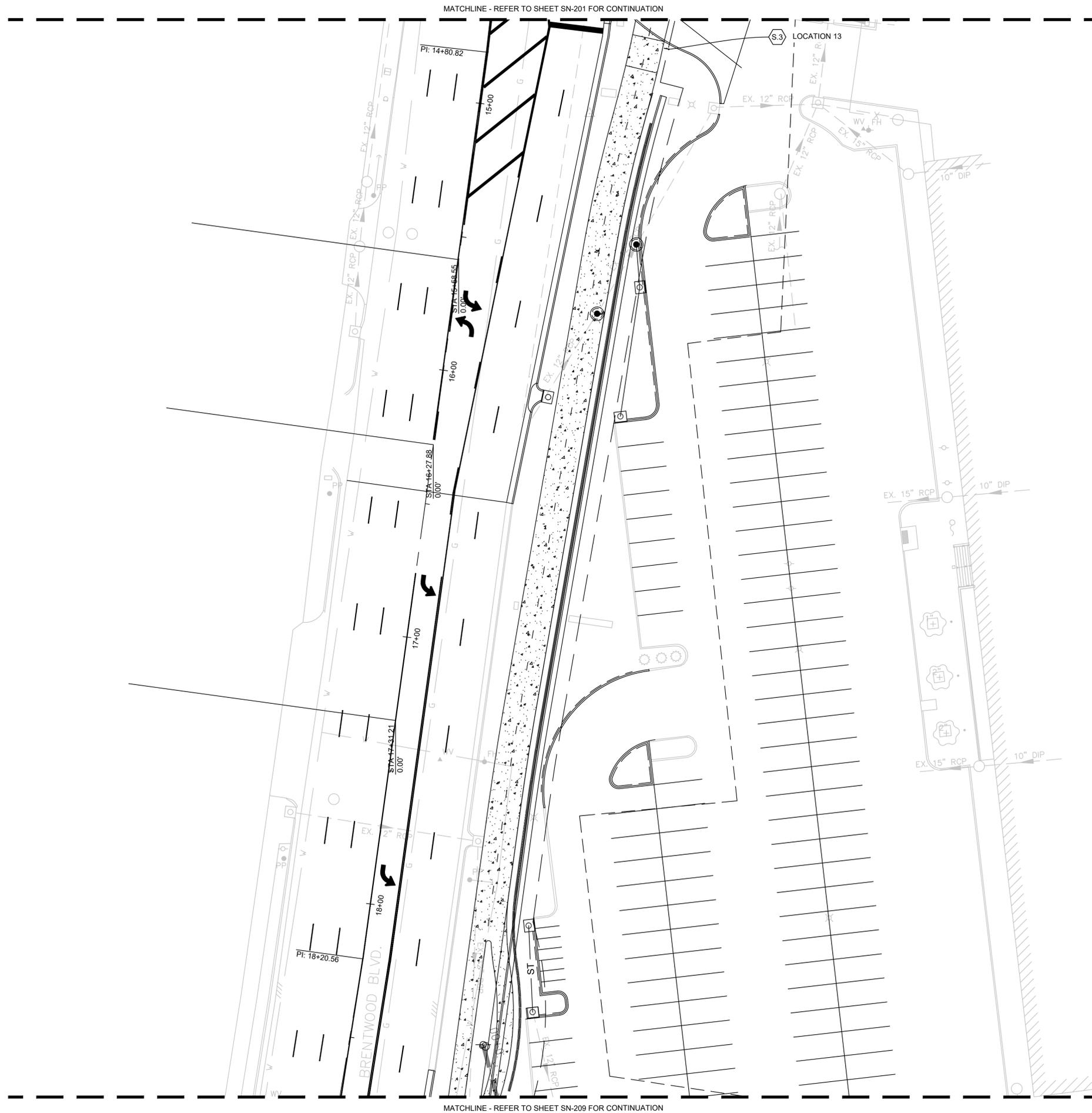
KEY PLAN



NAME:	-
DISCIPLINE:	-
LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	J. NILGES
DRAWN:	H. BROWN
CHECKED:	A. FRANK
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET:	59 OF 92
SN-207	

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 PLOT DATE: 8/13/2020 1:08:43 PM
 OPERATOR: ANDREWFRANKE

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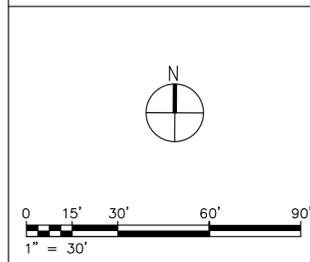
SIGNAGE PLAN NOTES

- 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 OTHER UTILITIES PRESENT, 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 DAMAGE THERETO. DIG RITE SHALL BE CONTACTED TO LOCATE PUBLIC UTILITIES.
- THE SIGNS INDICATED ON THESE PLANS ARE BASED ON TWO SIGNAGE STANDARDS: 1) GREAT RIVERS GREENWAY EXTERIOR SIGN DESIGN STANDARDS, 2019, AND 2) BRENTWOOD PARK SIGNAGE CONSTRUCTION DOCUMENT, NOVEMBER 15, 2010. THESE STANDARDS SHOULD BE REFERENCED WHEN COMPLETING ALL SHOP DRAWINGS AND SUBMITTALS.
- ALL TRAIL SIGN TYPES MUST BE LOCATED WITH A MINIMUM OF 1'-6" CLEARANCE BETWEEN THE TRAIL EDGE AND THE NEAREST EDGE OF ANY SIGN ELEMENT. 2'-0" CLEARANCE IS DESIRABLE WHERE AVAILABLE. 3'-0" IS THE MAXIMUM DISTANCE BETWEEN SIGN EDGE AND TRAIL.
- ARTWORK FOR MAIN TRAILHEAD KIOSK SIGNS TO BE PROVIDED BY GREAT RIVERS GREENWAY.
- THE SIGN DRAWINGS SHOW DESIGN INTENT ONLY. THE SIGN CONTRACTOR IS RESPONSIBLE FOR FABRICATION AND INSTALLATION OF THE SIGNS SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND ENGINEERING OF ALL STRUCTURAL, ATTACHMENT, ANCHORING AND FOUNDATION FEATURES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF ANY SIGNS ON THE PROJECT. SIGNS REQUIRING STRUCTURE, FOUNDATION AND/OR ANCHORING SHALL BE STAMPED AND SEALED BY A MISSOURI LICENSED ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING ALL NECESSARY SIGN PERMITS.
- ALL HARDWARE AND FASTENERS TO BE CONCEALED UNLESS OTHERWISE NOTED. FINISH ALL EXPOSED HARDWARE AND FASTENERS TO MATCH SURROUNDING SIGN SURFACES (COLORS) UNLESS OTHERWISE NOTED.
- THE CONTRACTOR AND OR SIGN FABRICATOR IS RESPONSIBLE FOR OBTAINING/PURCHASING ALL PROJECT TYPEFACES REQUIRED FOR PRODUCTION OF ALL THE SIGNS.

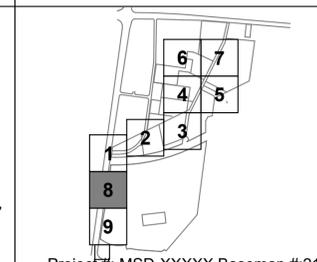
KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(IN-1) MSD INTERPRETIVE SIGN - DTL X, SHT X	(S.1)		
(KX-1) MAIN TRAILHEAD KIOSK - DTL 2, SHT X	(S.2)		
(RX-1) REGULATORY - CAUTION - DTL 1, SHT X	(S.3)		
(GX-6) MULTI-DIRECTIONAL (DOUBLE SIDED) - DTL 3, SHT X	(S.4)		
ADA PARKING - DTL X, SHT X	(S.5)		
MSD PERMEABLE PARKING - DTL X, SHT X	(S.6)		
EXISTING SPEED LIMIT SIGN TO REMAIN	(S.7)		
GRG GRAPHIC TREATMENT OF BARRIER WALL - DTL X, SHT X	(S.8)		
TUNNEL COLUMN SIGNAGE (2 PER TUNNEL FACE) CUSTOM METAL INSERT DTL X, SHT X	(S.09)		
NEW BRIDGE WEIGHT SIGN - DTL X, SHT X	(S.10)		
EXISTING COUNTY ADOPT A ROAD SIGN	(S.11)		
ADJUST / RELOCATE EXISTING TRAIL BLAZER SIGN	(S.12)		
SIGN WALL SHT X	(S.13)		

SCALES



KEY PLAN



GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 BRENTWOOD BOULEVARD



JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
 EXPIRATION DATE: DECEMBER 31, 2020



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
 CERTIFICATE OF AUTHORITY: 000159
 EXPIRATION DATE: DECEMBER 31, 2020



P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
 DISCIPLINE: LANDSCAPE ARCHITECT
 CERTIFICATE OF AUTHORITY: LAC-2006001845
 EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

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PRELIMINARY
 NOT FOR
 CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A. FRANK

HS JOB NO. 1815600

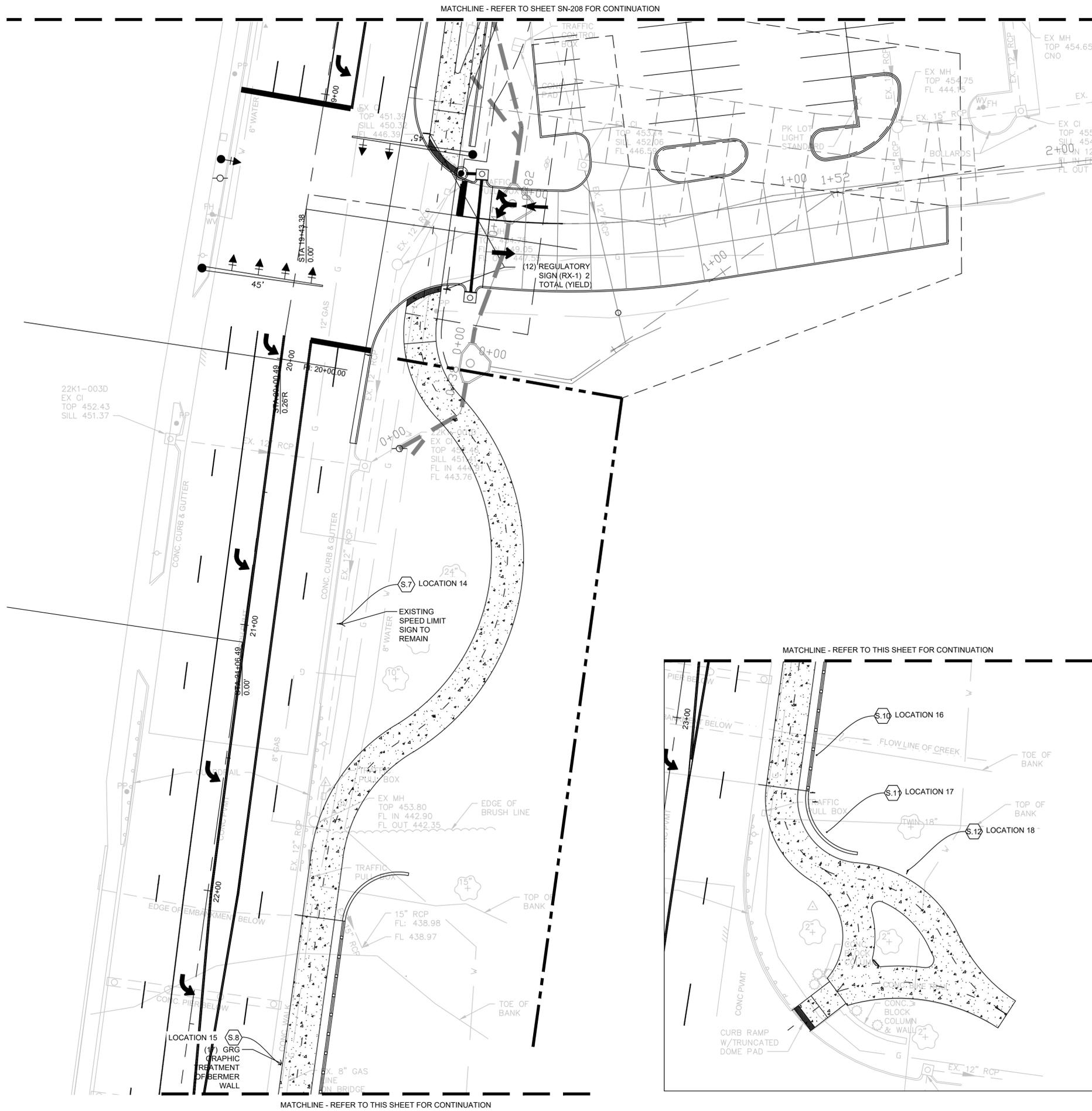
JACOBS JOB NO. 707841CH

SHEET 60 OF 92

SN-208

Project #: MSD-XXXXX Basemap #21K

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 PLOT DATE: 8/13/2020 12:58:01 PM
 OPERATOR: ANDREWFRANKE



SIGNAGE PLAN NOTES

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KEYED NOTES

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
(IN-1) MSD INTERPRETIVE SIGN - DTL X, SHT X	S.1		
(KX-1) MAIN TRAILHEAD KIOSK - DTL 2, SHT X	S.2		
(RX-1) REGULATORY - CAUTION - DTL 1, SHT X	S.3		
(GX-6) MULTI-DIRECTIONAL (DOUBLE SIDED) - DTL 3, SHT X	S.4		
ADA PARKING - DTL X, SHT X	S.5		
MSD PERMEABLE PARKING - DTL X, SHT X	S.6		
EXISTING SPEED LIMIT SIGN TO REMAIN	S.7		
GRG GRAPHIC TREATMENT OF BERMER WALL - DTL X, SHT X	S.8		
TUNNEL COLUMN SIGNAGE (2 PER TUNNEL FACE) CUSTOM METAL INSERT DTL X, SHT X	S.9		
NEW BRIDGE WEIGHT SIGN - DTL X, SHT X	S.10		
EXISTING COUNTY ADOPT A ROAD SIGN	S.11		
ADJUST / RELOCATE EXISTING TRAIL BLAZER SIGN	S.12		
SIGN WALL SHT X	S.13		



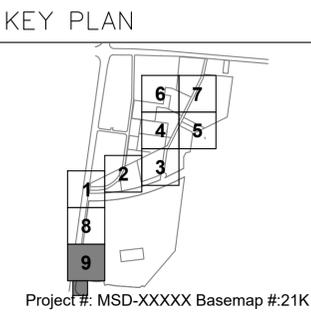
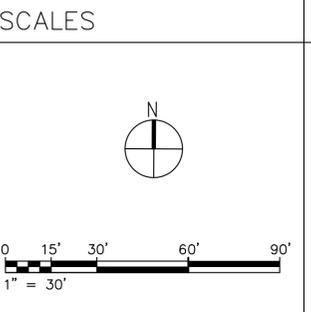
GREAT RIVERS GREENWAY CONNECTOR PROJECT
 60% DESIGN
 SIGNAGE PLAN
 BRENTWOOD BOULEVARD



NO.	DATE	REVISION

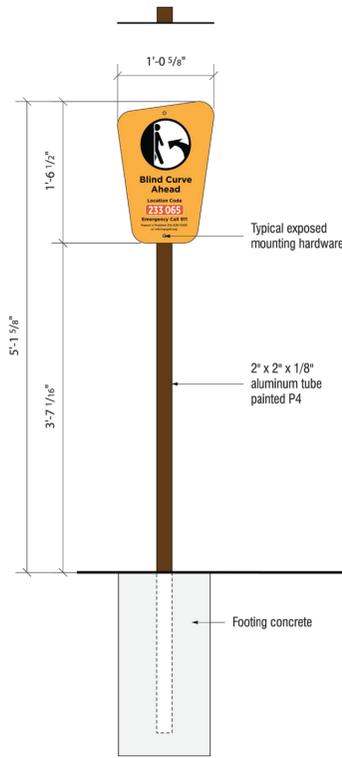
PRELIMINARY NOT FOR CONSTRUCTION

NAME: -
 DISCIPLINE: -
 LICENSE NO.: -
 EXPIRATION DATE: -
 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A FRANKIE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH
 SHEET 61 OF 92
SN-209

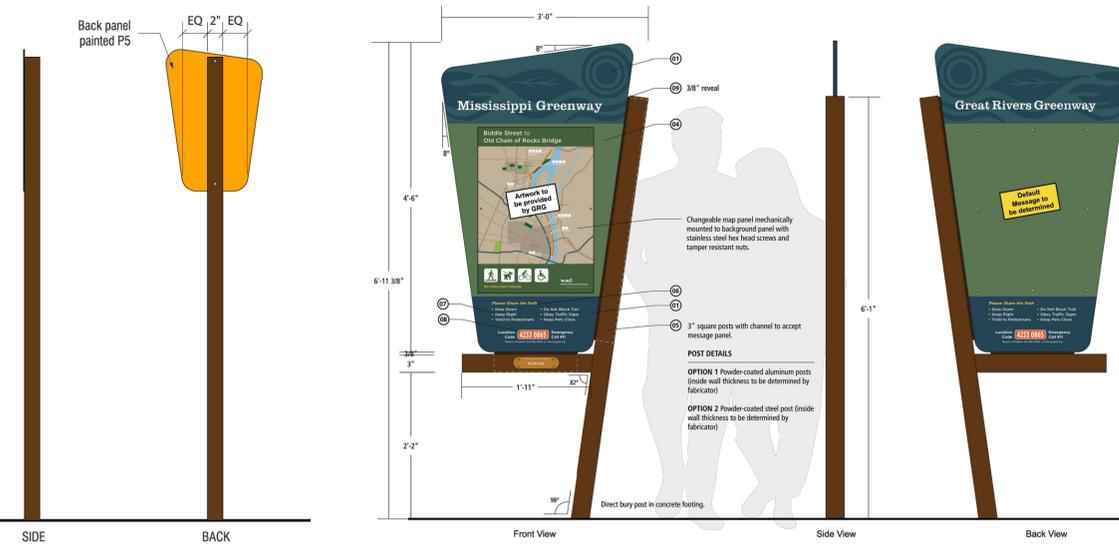


Project #: MSD-XXXXX Basemap #21K

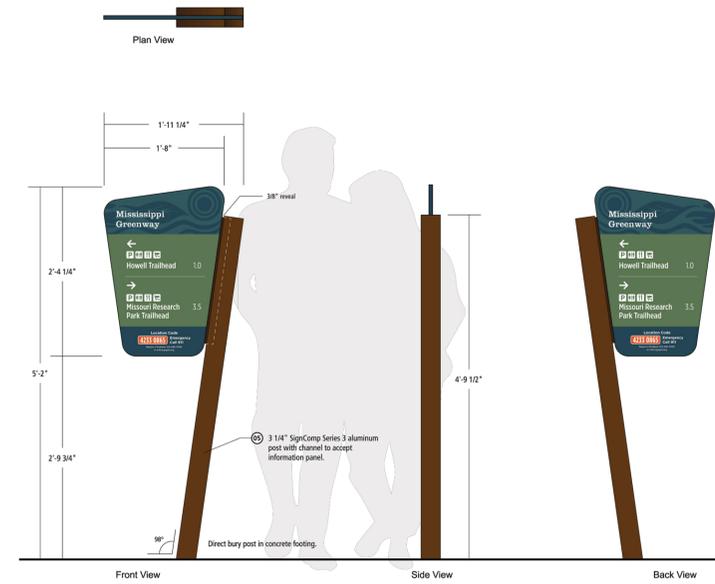
**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
SIGNAGE PLAN
DETAILS



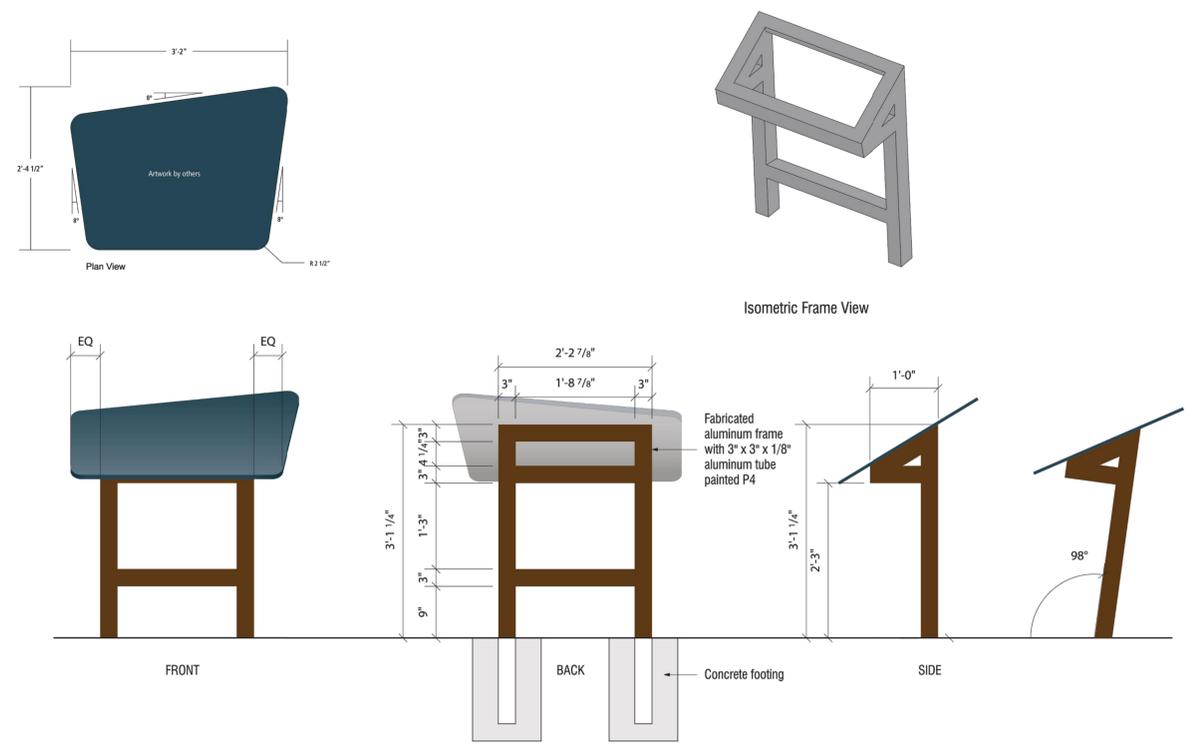
1 REGULATORY CAUTION SIGN (RX-1)
S-210 ELEVATION



2 MAIN TRAILHEAD KIOSK (KX-1)
S-210 ELEVATION



3 MULTI-DIRECTIONAL MEDIUM GUIDE (GX-6)
S-210 ELEVATION



4 INTERPRETIVE SIGN (IN-1)
S-210 ELEVATION

5 NOT USED
S-210 SECTION

JACOBS

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 62 OF 92

SND-101

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 SIGNAGE PLAN
DETAILS

SIGNAGE MESSAGE SCHEDULE		
LOCATION NUMBER	MESSAGE	COMMENTS
1	YIELD	STANDARD ST LOUIS COUNTY SIGN
2	NOT USED	---
3	NOT USED	---
4	INTERPRETIVE MESSAGE - RAIN GARDEN	INTERPRETIVE SIGN
5	INTERPRETIVE MESSAGE - PERMEABLE PARKING LOT	INTERPRETIVE SIGN
6	MSD PERMEABLE PARKING LOT	STANDARD MSD DESIGN
7	ACCESSIBLE PARKING SIGN	PER MODOT SPECIFICATIONS SECTION 903
8	ACCESSIBLE PARKING SIGN	PER MODOT SPECIFICATIONS SECTION 903
9	MSD PRIVATE	---
10	DEER CREEK GREENWAY-- ROGERS PARKWAY--	DOUBLE SIDED, REVERSE ARROWS AS NECESSARY
11	WILLOW TRAIL-- DEER CREEK GREENWAY--	DOUBLE SIDED, REVERSE AS NECESSARY, ADD ROGERS PARKWAY ON REVERSE
12	LOCATION MAP	MAIN TRAIL KIOSK
13	YIELD	INSTALL A TOTAL OF 3 SIGNS AT LOCATIONS SHOWN ON PLANS
14	SPEED LIMIT 30	RELOCATE EXISTING SIGN
15	GREAT RIVERS GREENWAY	GRAPHIC TREATMENT OF BARRIER WALL
16	BRIDGE WEIGHT INFORMATION	NEW BRIDGE WEIGHT SIGN
17	ADOPT A ROAD (EXISTING)	RELOCATED EXISTING COUNTY ADOPT A ROAD SIGN
18	N/A	RELOCATED EXISTING TRAIL BLAZER SIGN
19	CAUTION - TUNNEL AHEAD	2 TOTAL: 1 ON NORTH SIDE, 1 ON SOUTH SIDE
20	BRENTWOOD	CUSTOM METAL INSET PANEL APPLIED TO COLUMN 2 TOTAL
21	BRENTWOOD	CUSTOM METAL INSET PANEL APPLIED TO COLUMN 2 TOTAL

1 SIGNAGE MESSAGE SCHEDULE

SCALE

JACOBS

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
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PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
DISCIPLINE: -
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EXPIRATION DATE: -

DATE: 14 AUGUST 2020

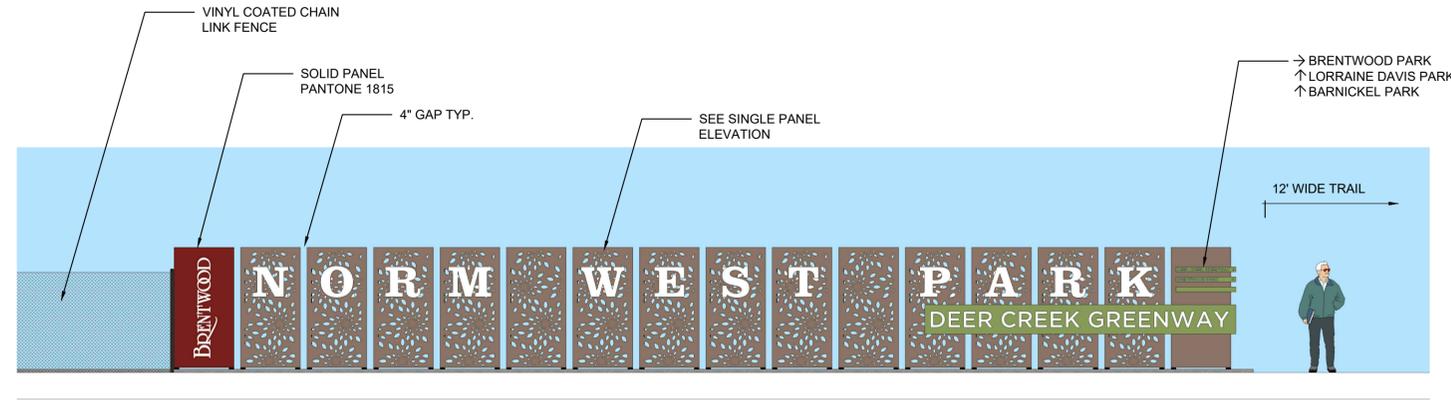
DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 63 OF 92

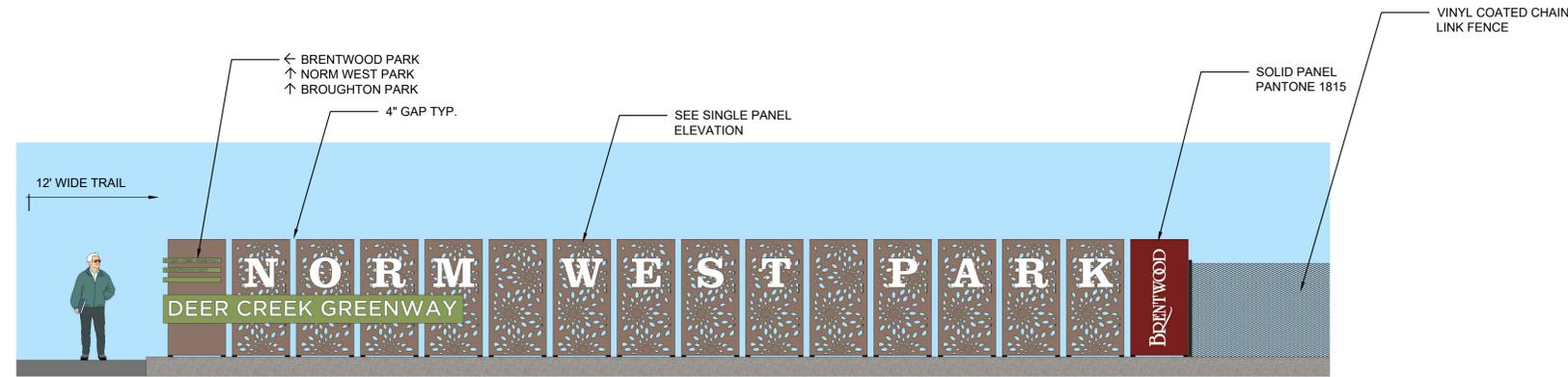
SND-102

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
SIGNAGE PLAN
DETAILS



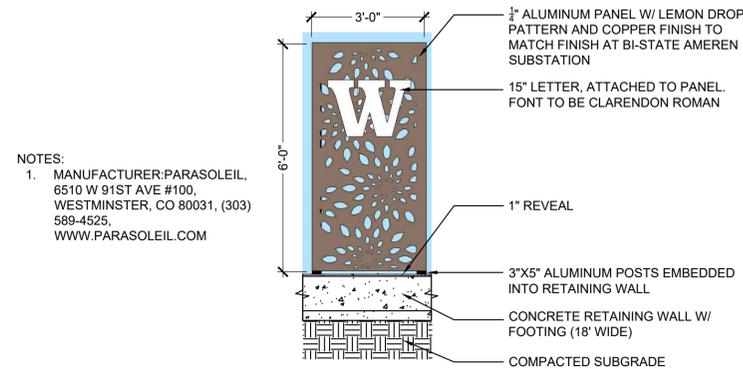
1 OVERALL SIGNAGE WALL LOOKING SOUTH
ELEVATION

NTS



2 OVERALL SIGNAGE WALL LOOKING NORTH
ELEVATION

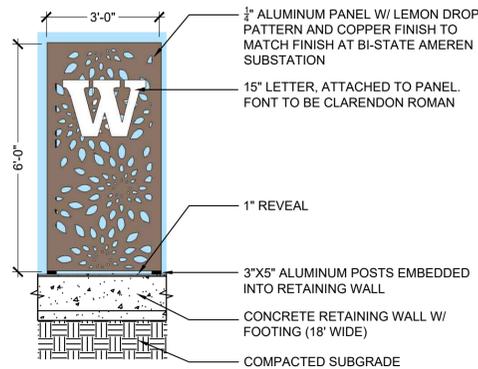
NTS



NOTES:
1. MANUFACTURER: PARASOLEIL,
6510 W 91ST AVE #100,
WESTMINSTER, CO 80031, (303)
589-4525
WWW.PARASOLEIL.COM

3 SIGNAGE WALL SINGLE PANEL ELEVATION
SECTION

NTS



4 SIGNAGE WALL SINGLE PANEL SECTION
SECTION

NOT PROVIDED THIS SUBMITTAL

NTS

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63117
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
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PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
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CONSTRUCTION**

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 64 OF 92

SND-103

GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN
CROSS SECTION
MARY AVENUE BASIN

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
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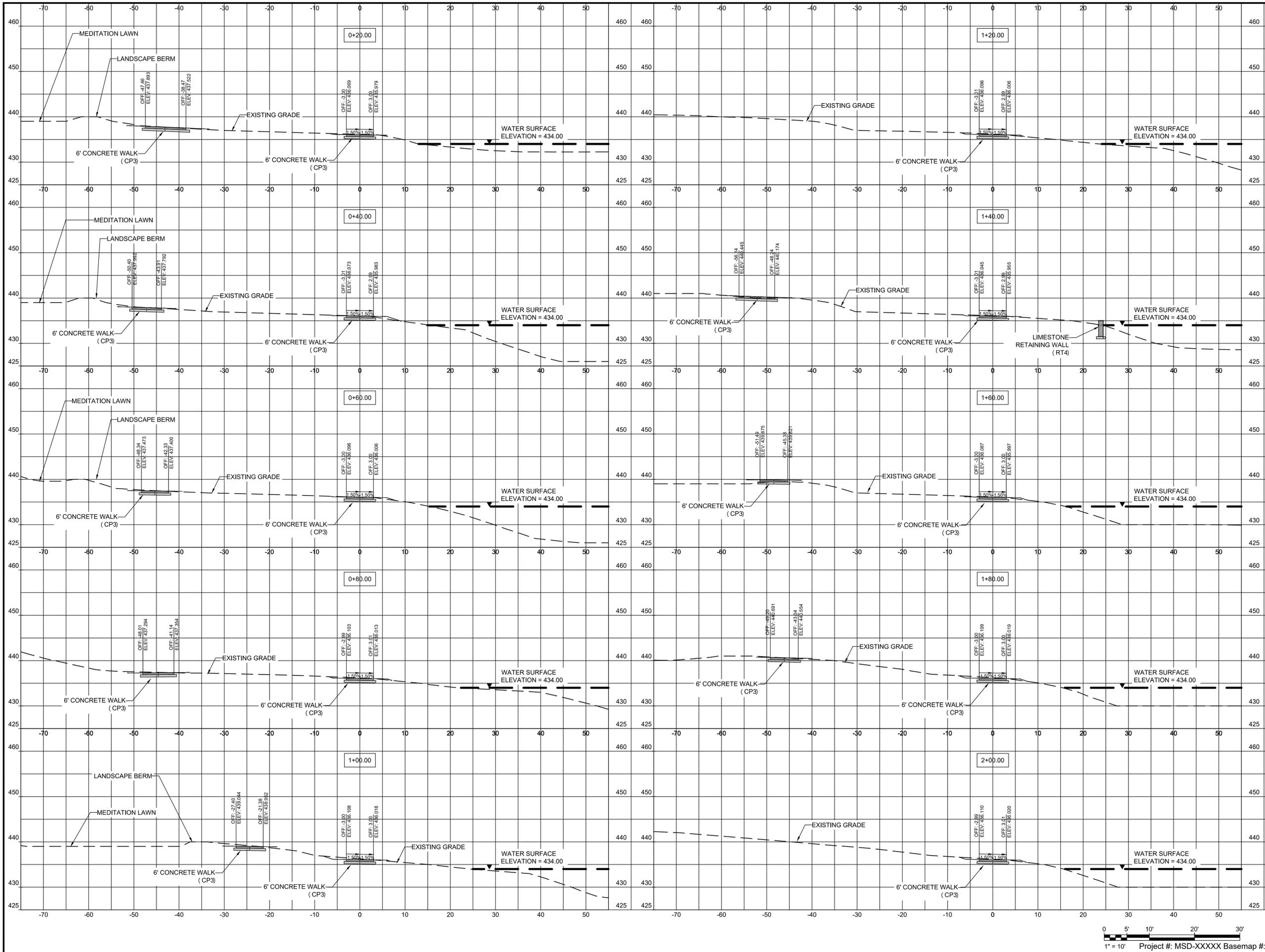
DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 65 OF 92

XS-101



DWG: F:\1924\NW Park GRG Connector\11-Cadd\current\drawing\1924_LXS_Mary Basin.dwg
 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 6:27:00 PM
 SAVE DATE: 8/7/2020 10:42:08 AM

0 5' 10' 20' 30'
1" = 10' Project #: MSD-XXXXX Basemap #21K

GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN
CROSS SECTION
MARY AVENUE BASIN

Jacobs

JACOBS ENGINEERING GROUP INC.
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ST. LOUIS, MISSOURI 63102-2131
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EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

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PRELIMINARY
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CONSTRUCTION

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

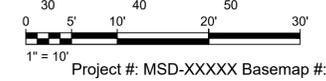
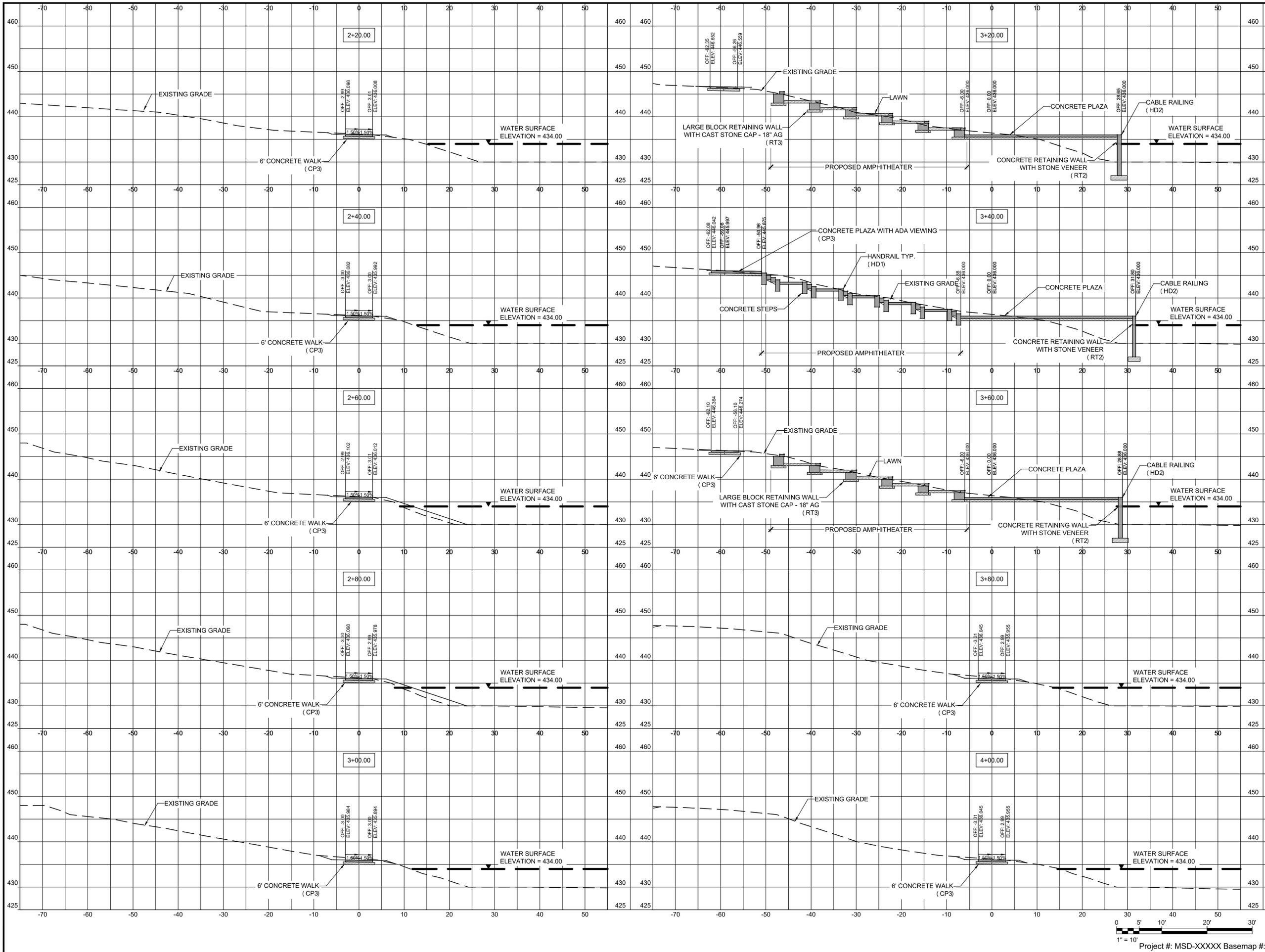
DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 66 OF 92

XS-102



DWG: F:\1924\NW Park GRG Connector\11-Cad\currendrawing\1924_L_XS_Mary Basin.dwg
 OPERATOR: STALBERT
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
MARY AVENUE BASIN

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

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NOT FOR
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EXPIRATION DATE: -

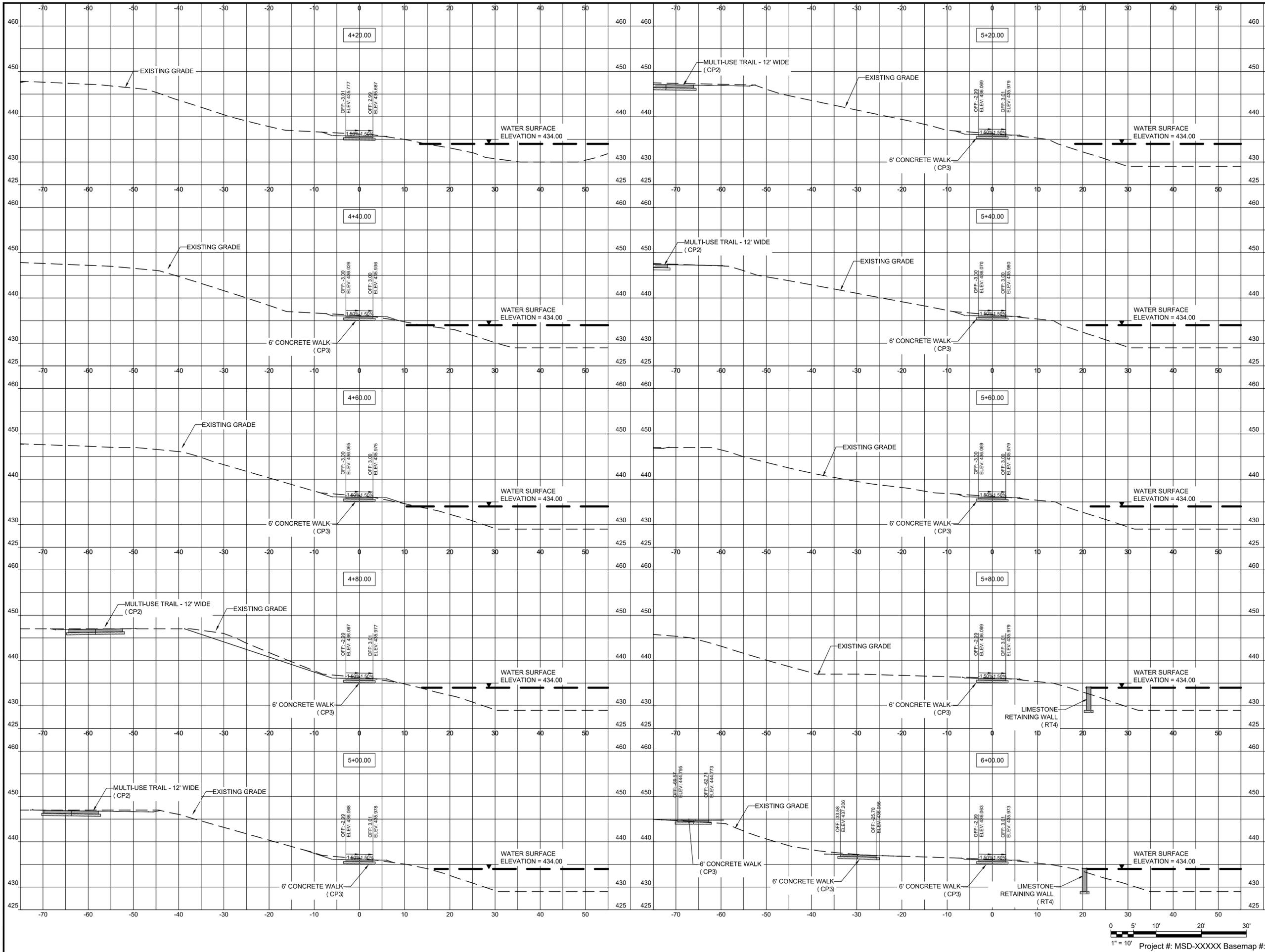
DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 67 OF 92

XS-103



DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_LXS_Mary Basin.dwg
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GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN
CROSS SECTION
MARY AVENUE BASIN

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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CERTIFICATE OF AUTHORITY: LAC-2006001845
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PRELIMINARY
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CONSTRUCTION

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

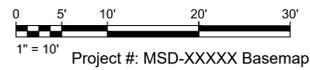
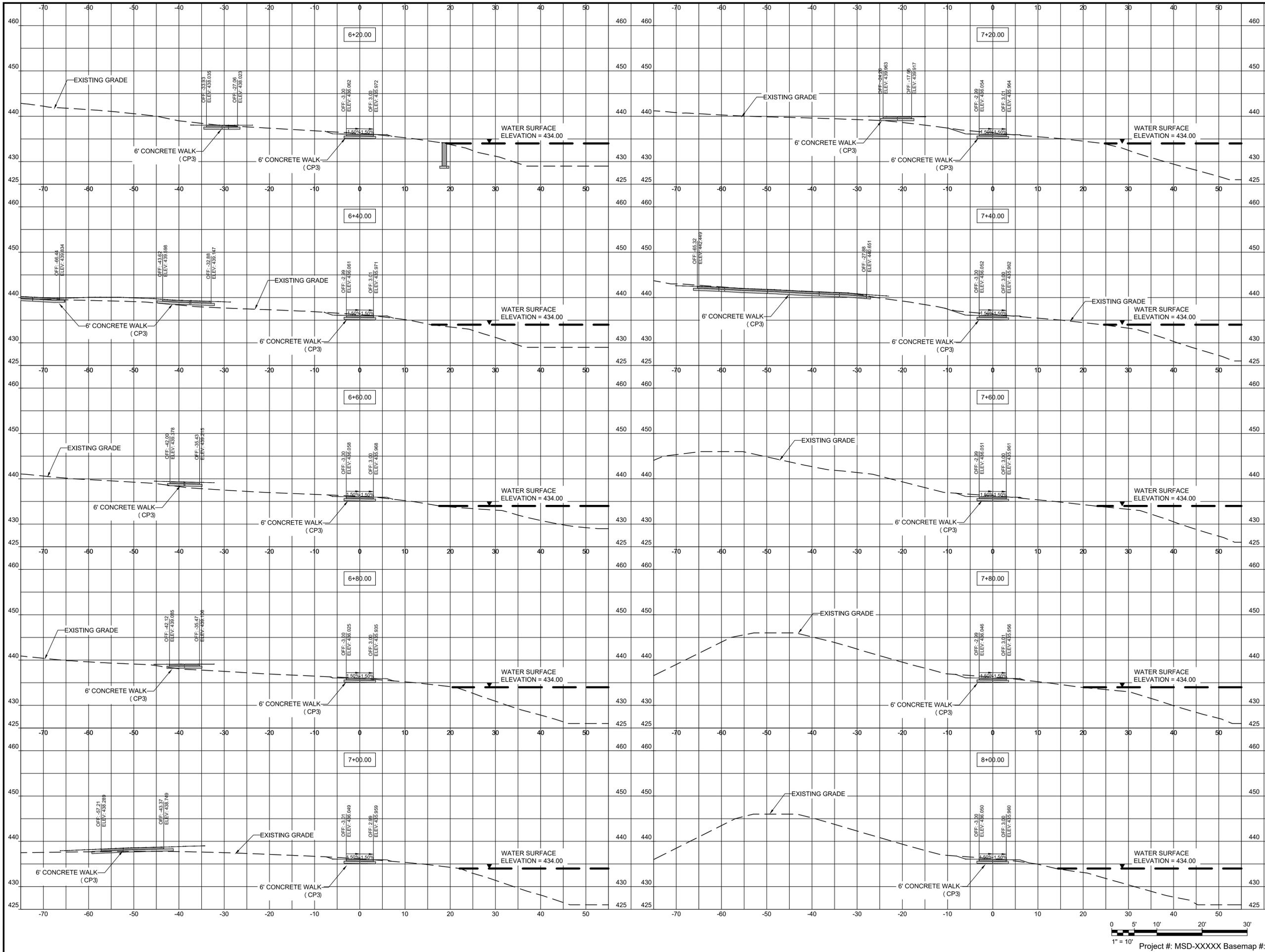
DATE: 14 AUGUST 2020

DESIGNED:
DRAWN:
CHECKED:

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 68 OF 92

XS-104



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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
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CONSTRUCTION**

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DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

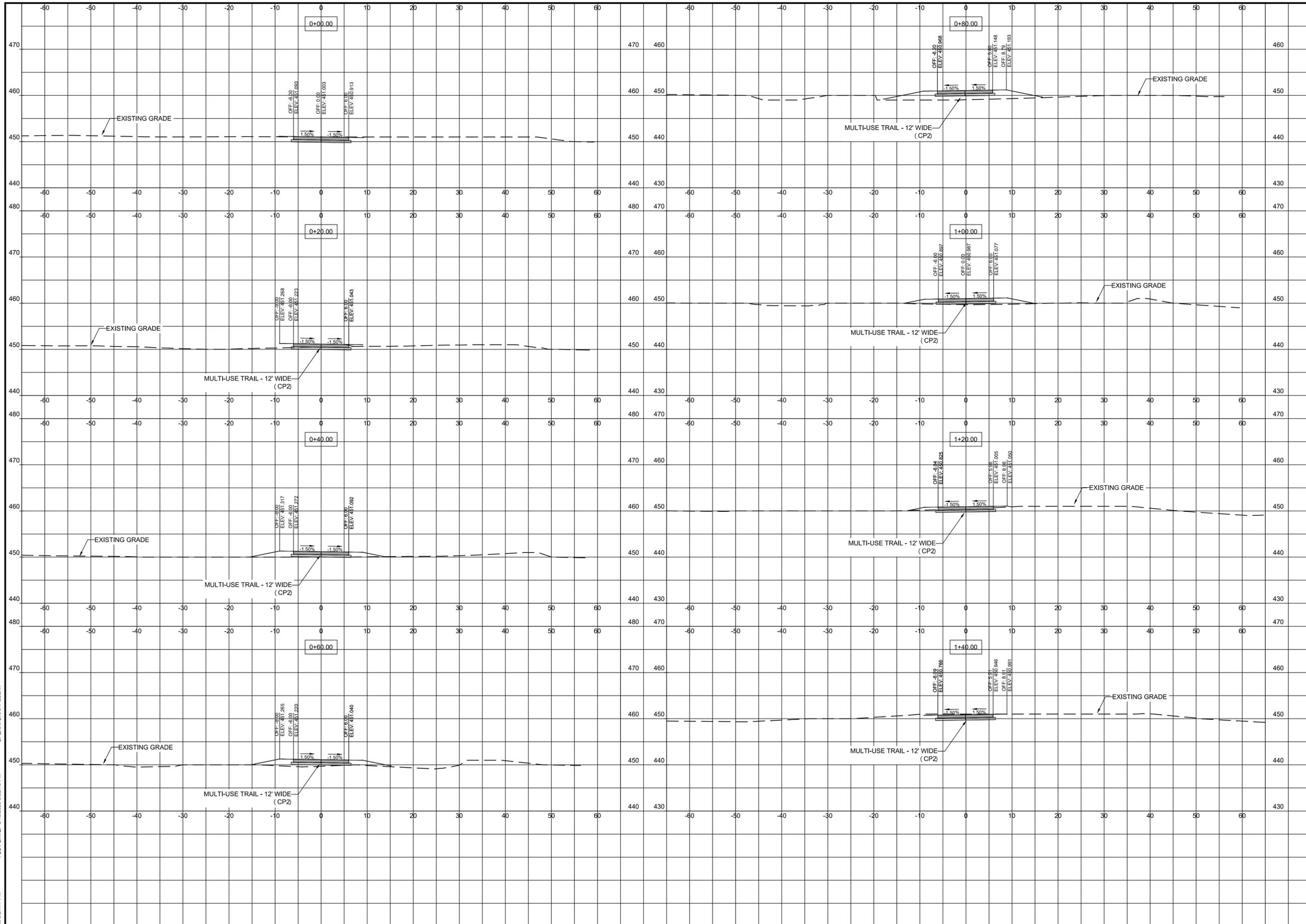
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 69 OF 92

0 5' 10' 20' 30'
1" = 10' Project #: MSD-XXXXX Basemap #21K



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
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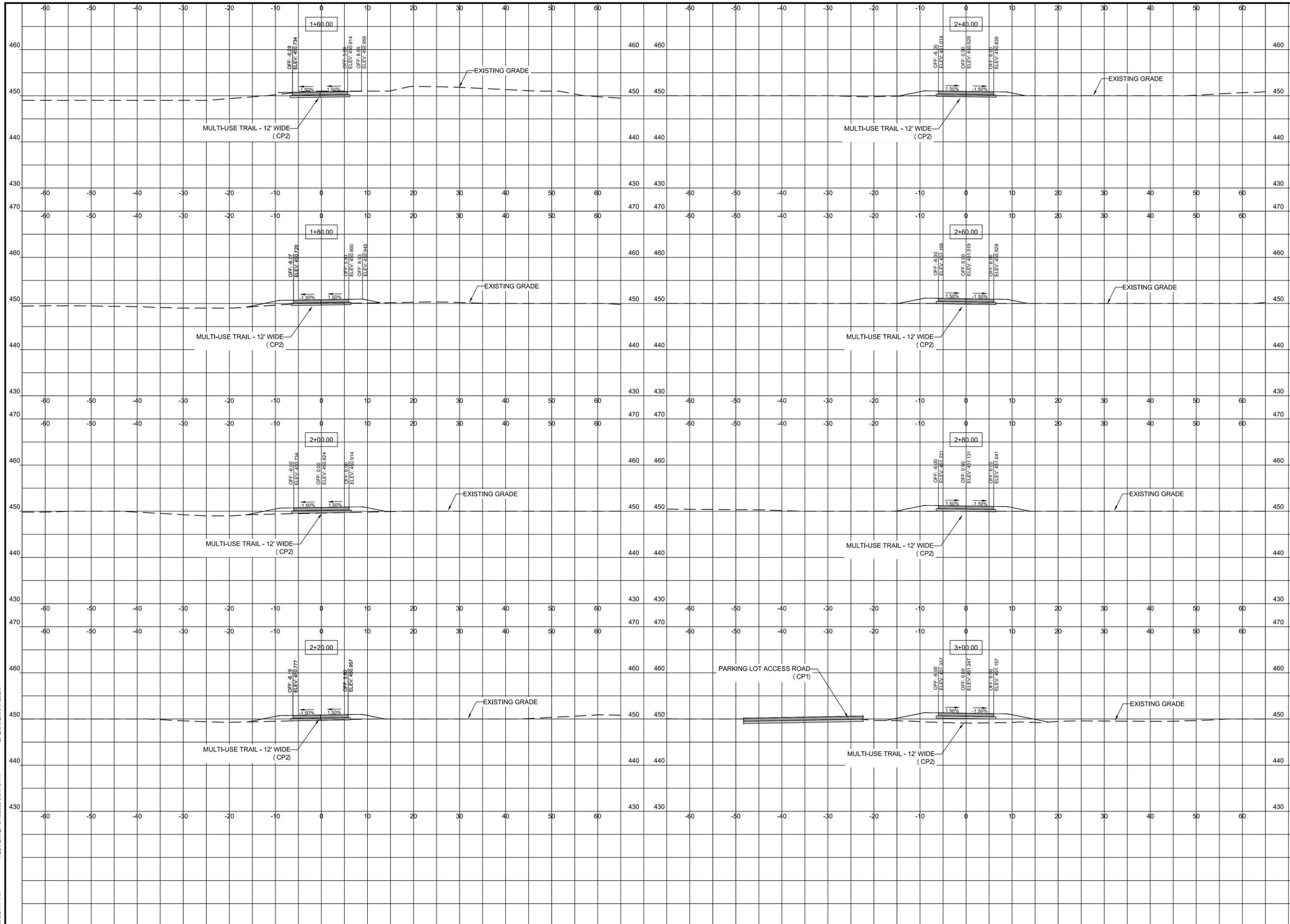
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 70 OF 92

0 5' 10' 20' 30'
1" = 10' Project #: MSD-XXXXX Basemap #21K



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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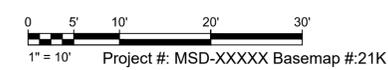
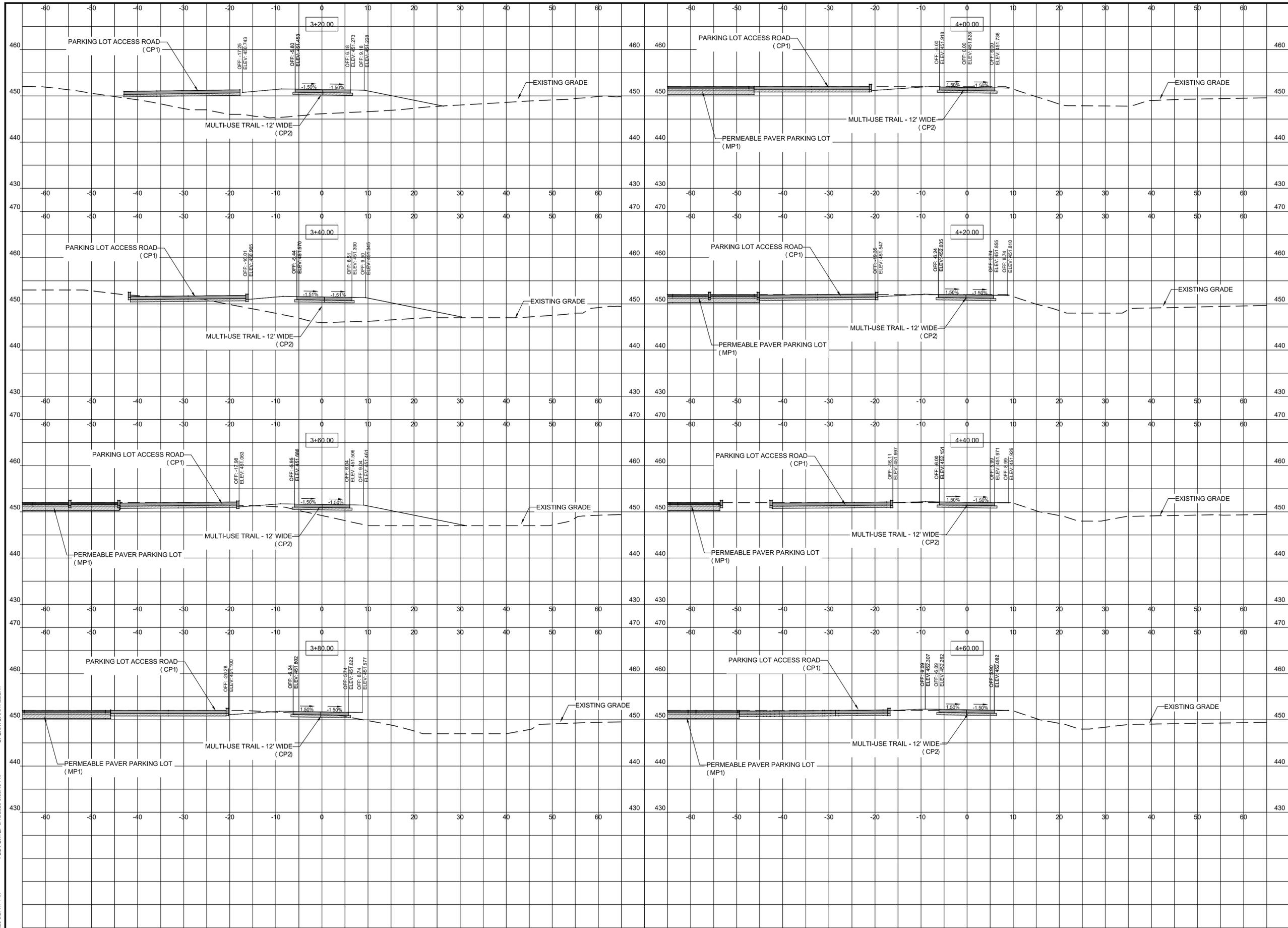
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 71 OF 92

XS-603



DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_XS_Greenway Connector NEW.dwg
 OPERATOR: STALBERT
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
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EXPIRATION DATE: DECEMBER 31, 2020

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LICENSE NO.: -
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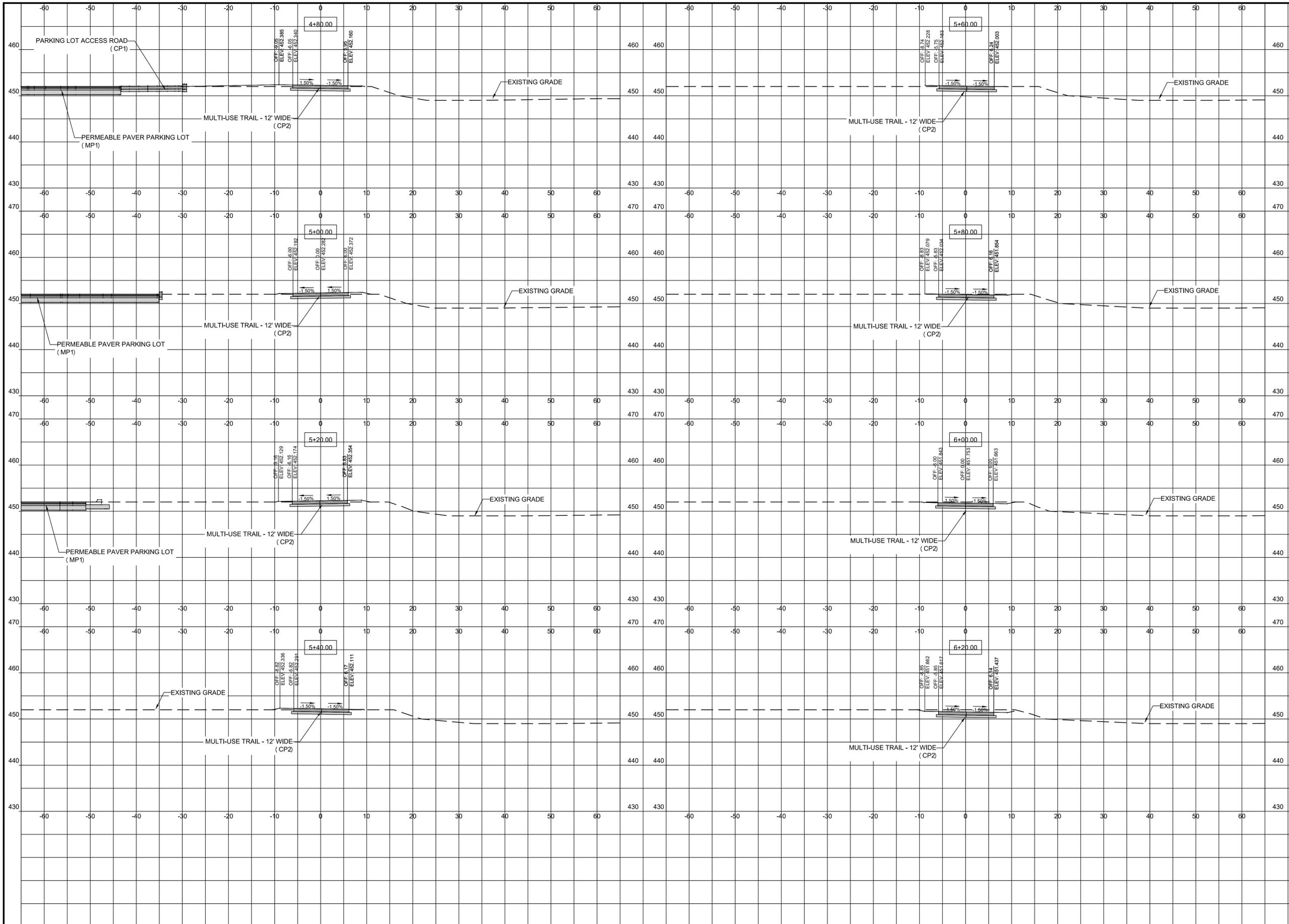
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 72 OF 92

0 5' 10' 20' 30'
1" = 10' Project #: MSD-XXXXX Basemap # 21K



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
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**PRELIMINARY
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CONSTRUCTION**

NAME: -
DISCIPLINE: -
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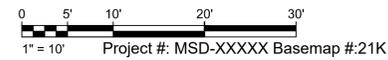
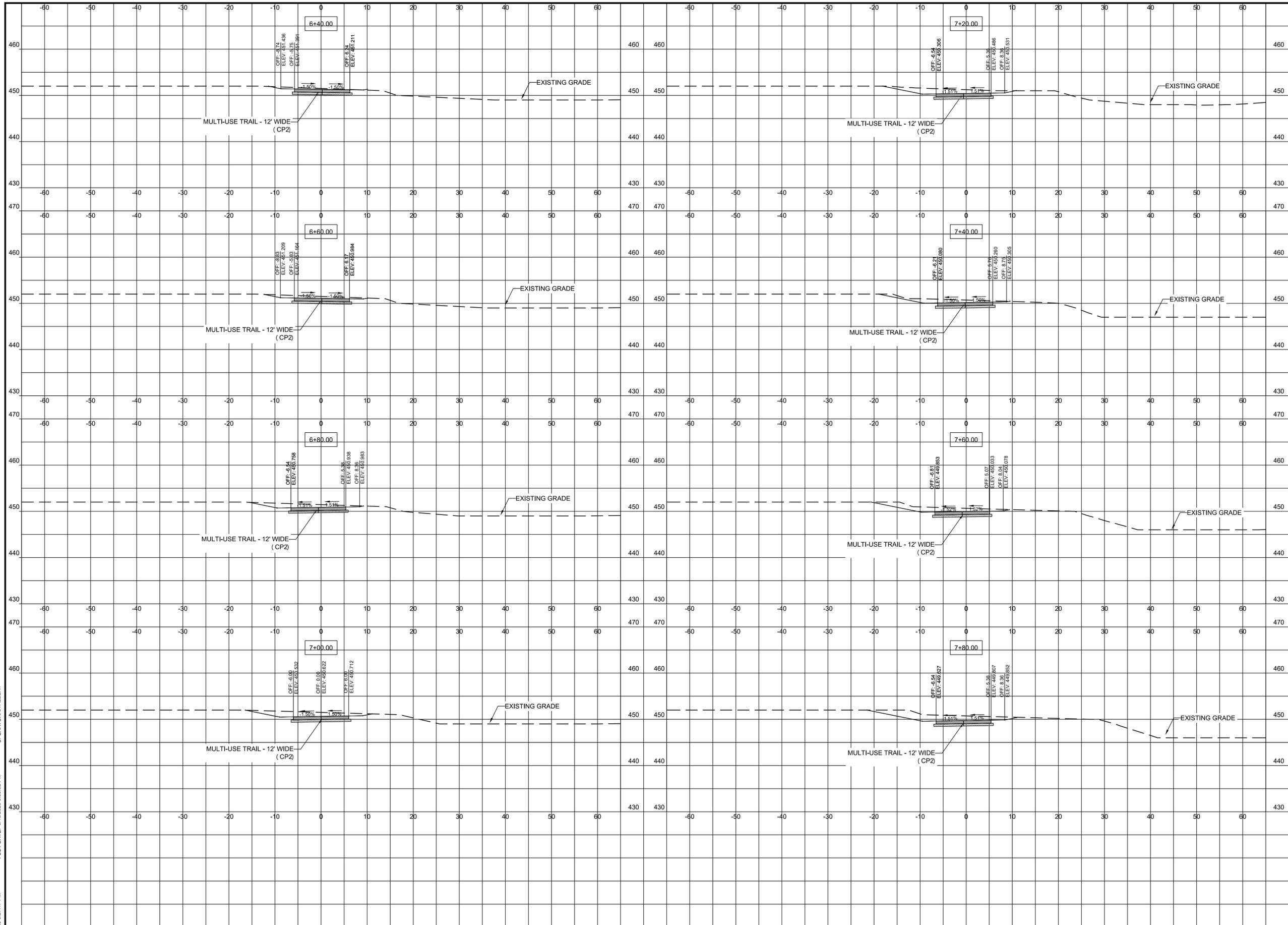
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 73 OF 92

XS-605



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 OPERATOR: STALBERT
 PLOT DATE: 8/13/2020 5:59:02 PM
 SAVE DATE: 8/7/2020 8:27:17 PM

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

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DISCIPLINE: -
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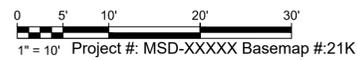
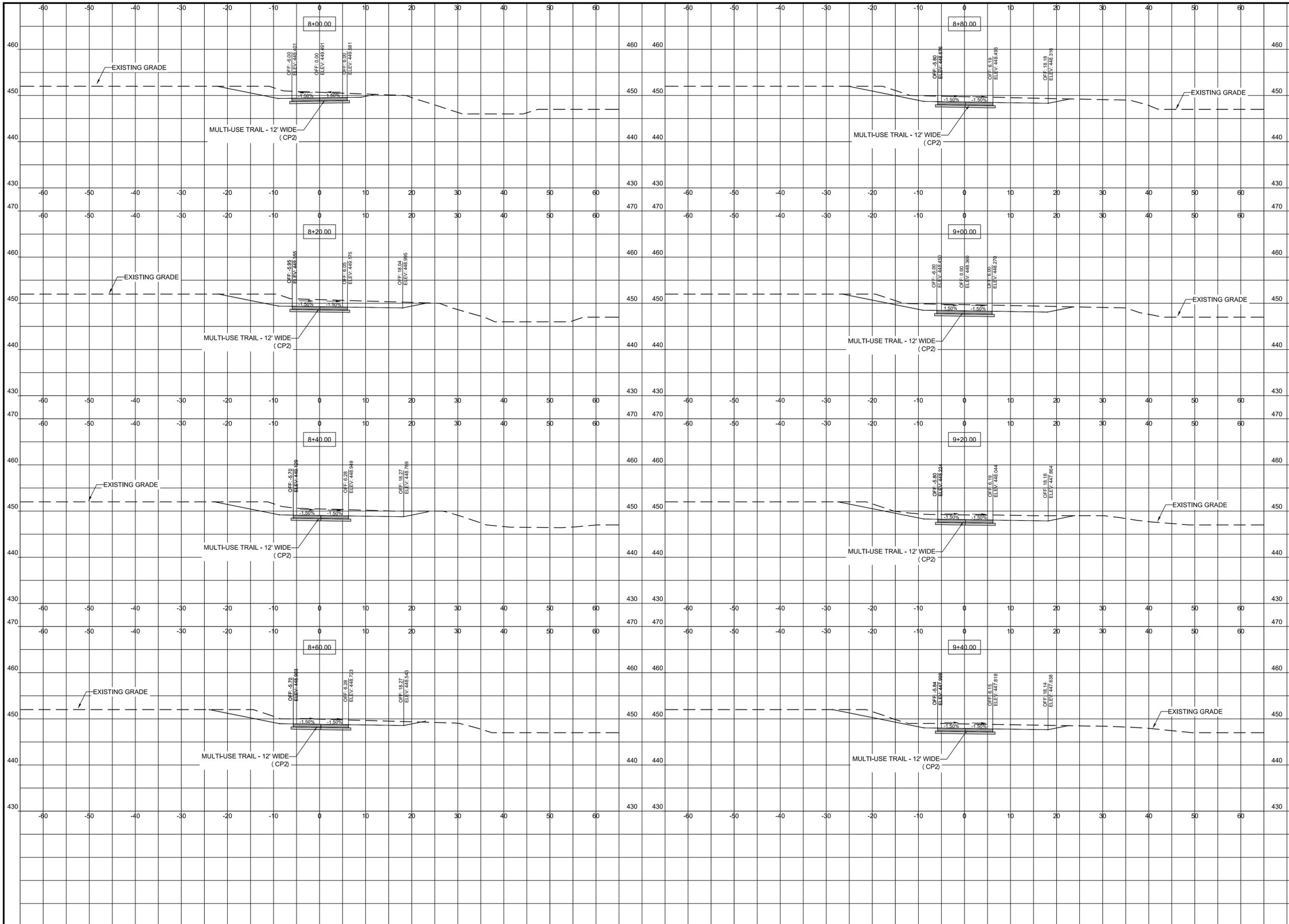
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 74 OF 92

XS-606



DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_LXS_Greenway Connector NEW.dwg
 OPERATOR: STALBERT
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
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EXPIRATION DATE: -

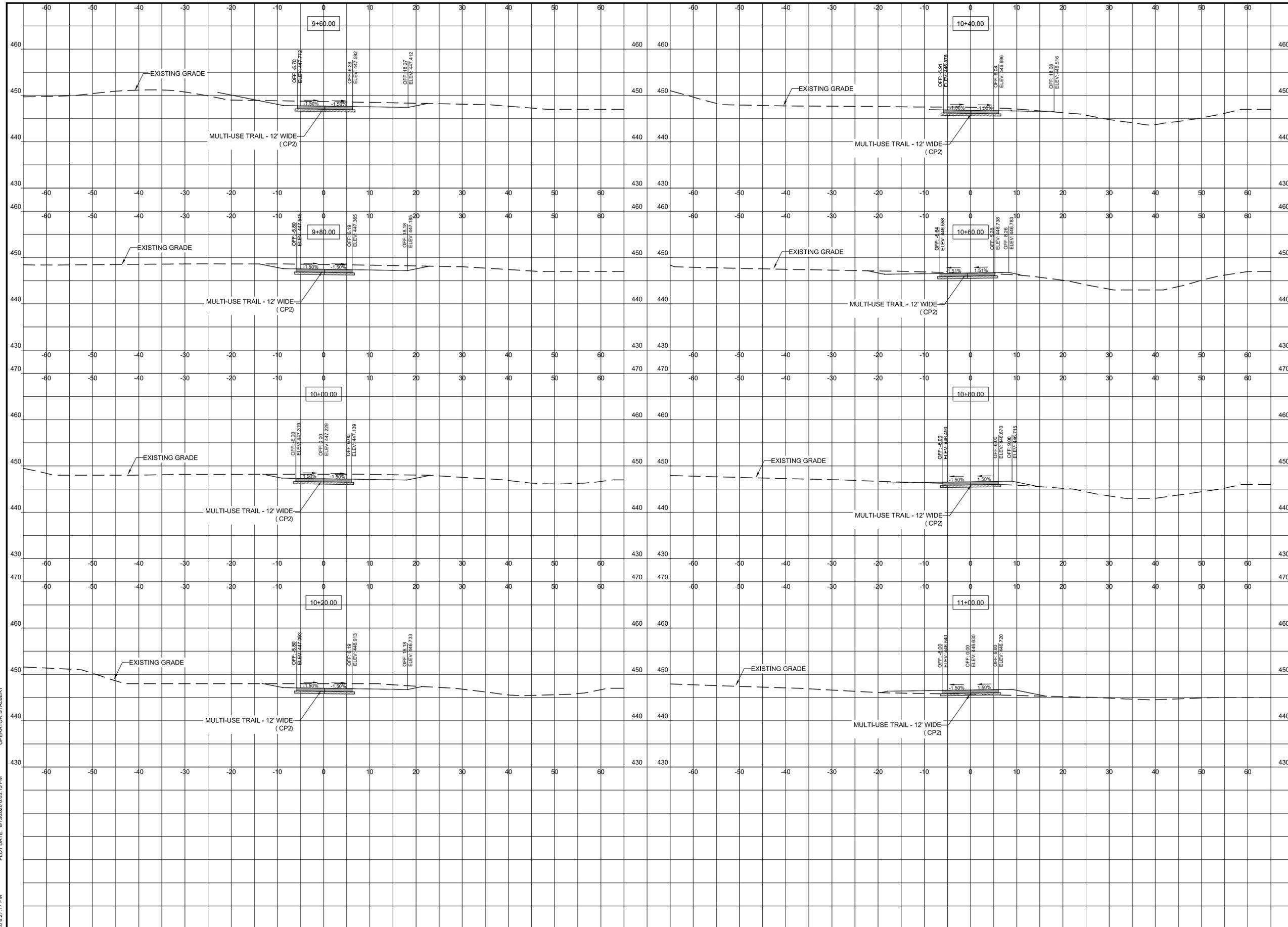
DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 75 OF 92

0 5' 10' 20' 30'
1" = 10' Project #: MSD-XXXXX Basemap #21K



DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_L_XS_Greenway Connector NEW.dwg
 OPERATOR: STALBERT
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 SAVE DATE: 8/7/2020 8:27:17 PM

**GREAT RIVERS GREENWAY
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60% DESIGN
CROSS SECTION
GRG CONNECTOR

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ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

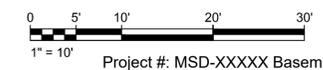
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DATE: 14 AUGUST 2020

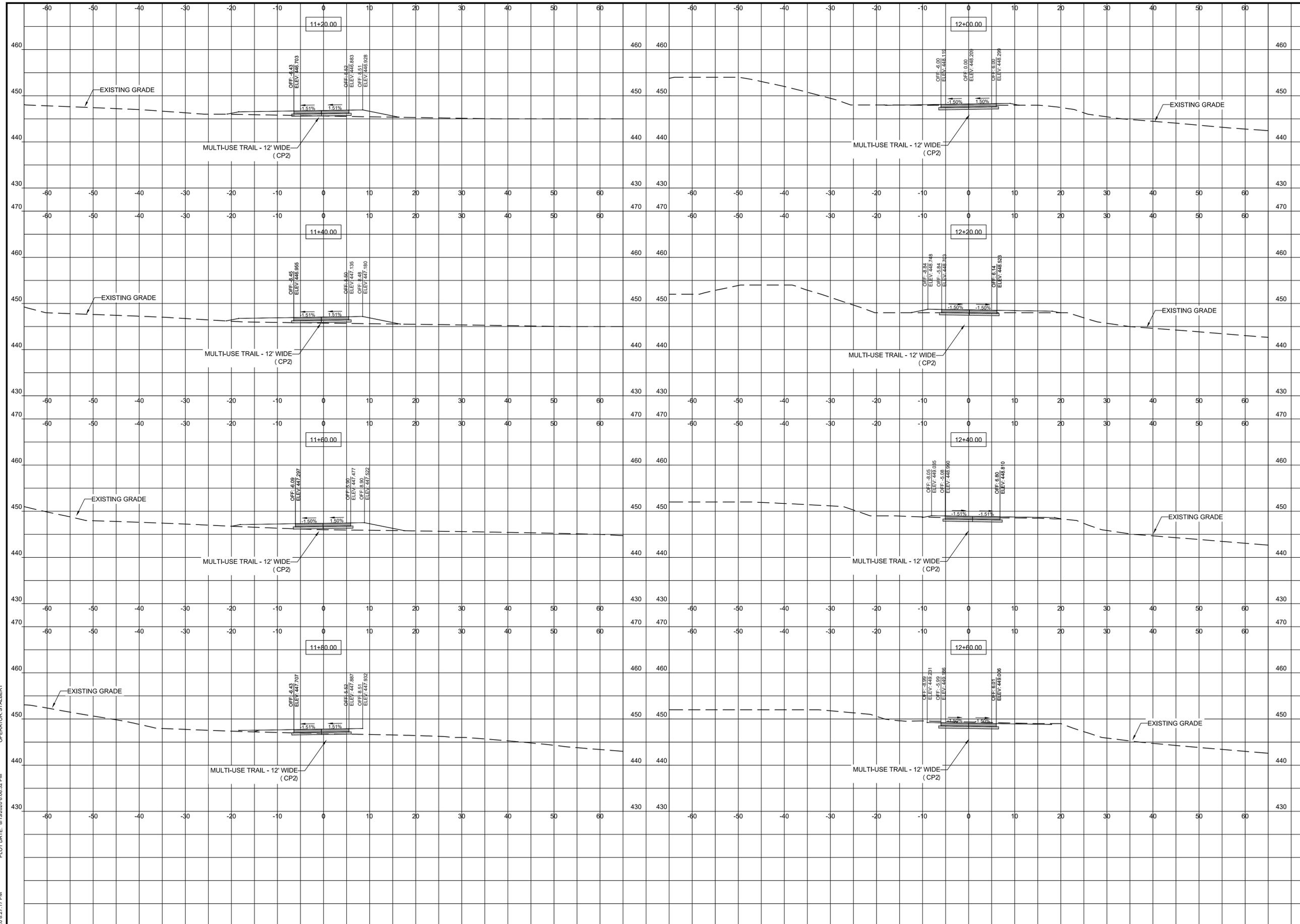
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANK

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 76 OF 92



Project #: MSD-XXXXX Basemap #21K



DWG: F:\1924\NW Park GRG Connector\11-Cad\current\drawing\1924_LXS_Greenway Connector NEW.dwg
 OPERATOR: STALBERT
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 SAVE DATE: 8/7/2020 8:27:17 PM

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CONNECTOR PROJECT**
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CROSS SECTION
GRG CONNECTOR

Jacobs

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DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: LAC-2006001845
EXPIRATION DATE: DECEMBER 31, 2020

NO.	DATE	REVISION

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR HERE, ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

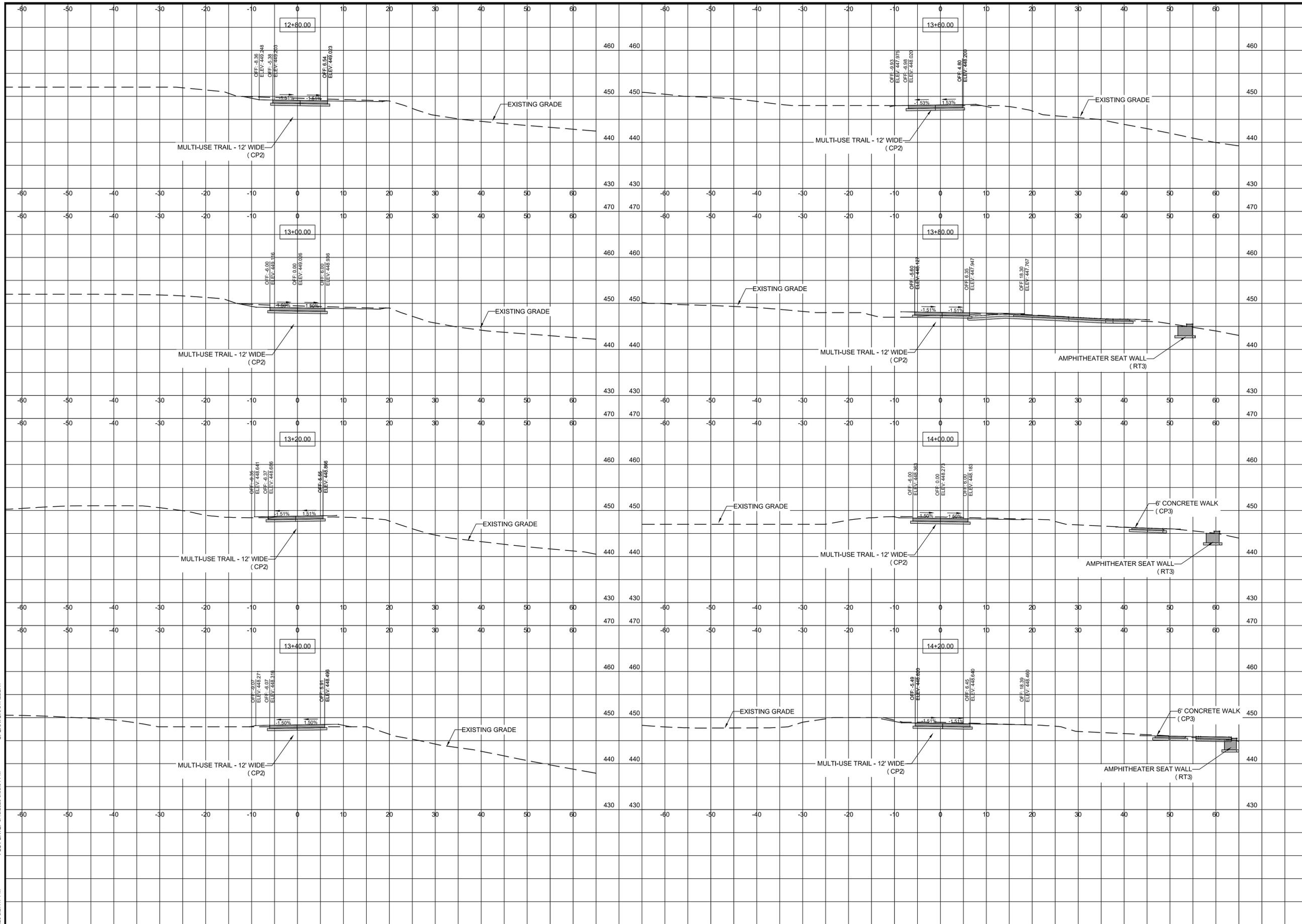
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DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 77 OF 92



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: LANDSCAPE ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
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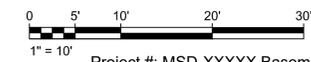
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DATE: 14 AUGUST 2020

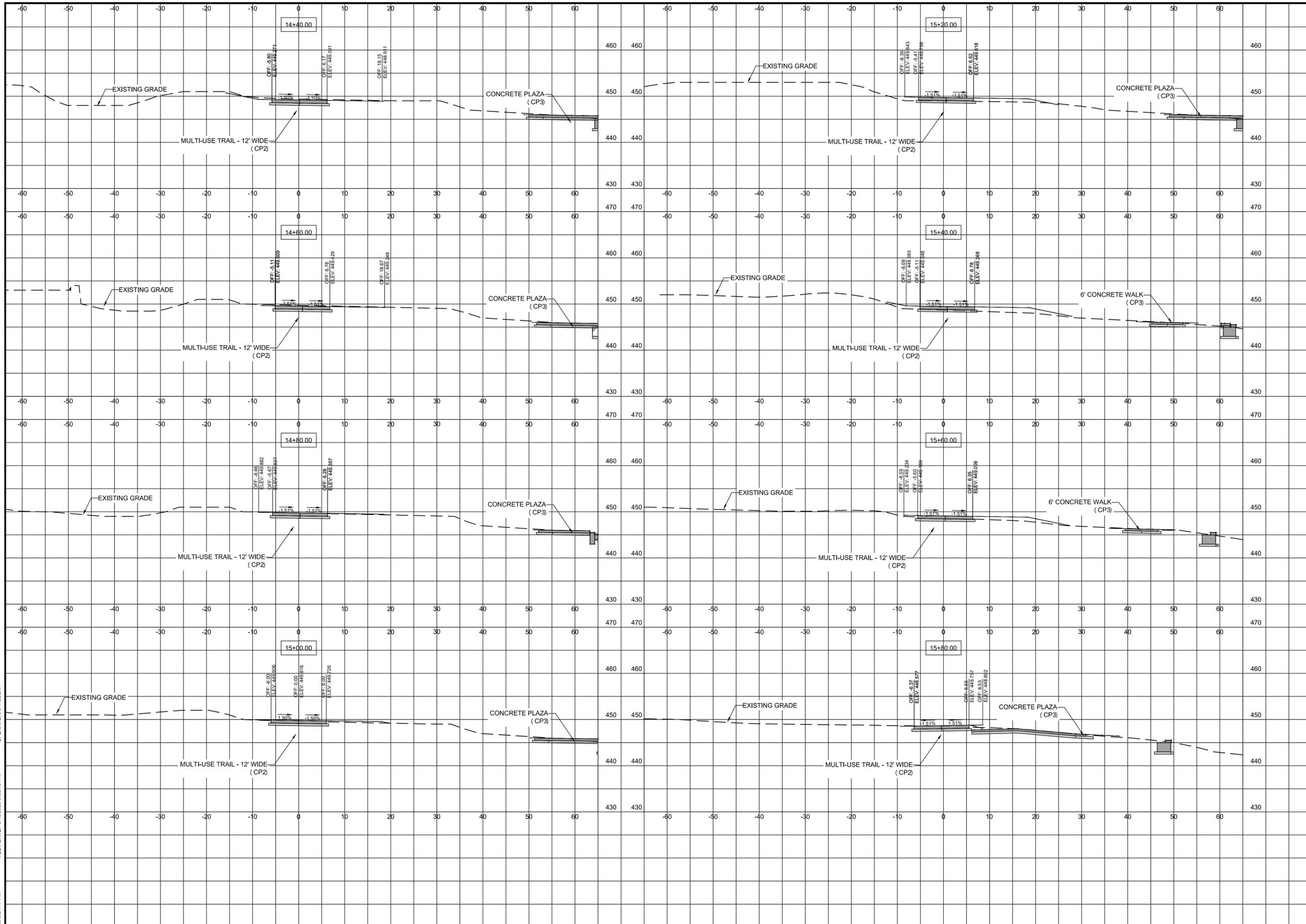
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 78 OF 92



Project #: MSD-XXXXX Basemap #21K



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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
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314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
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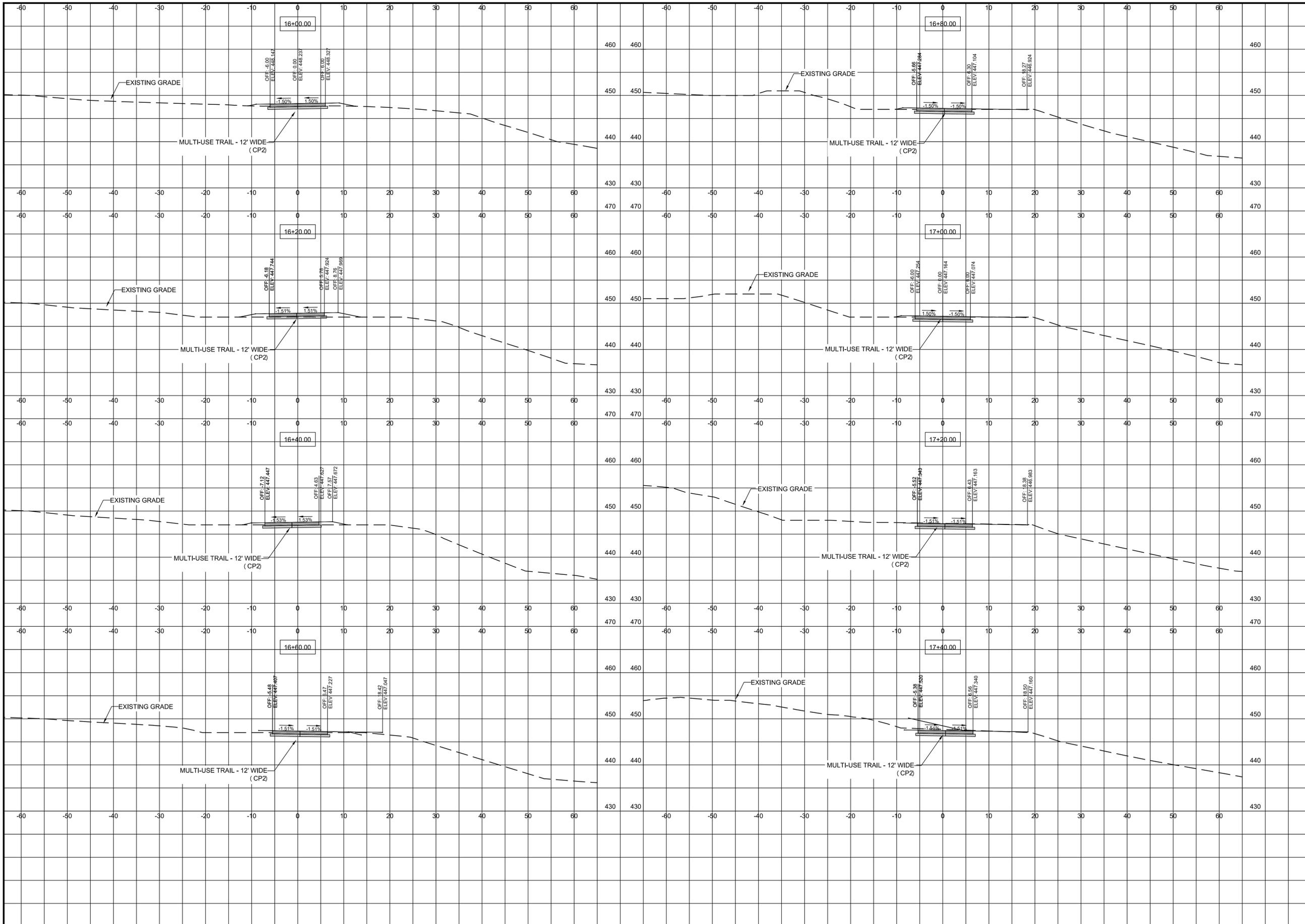
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LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

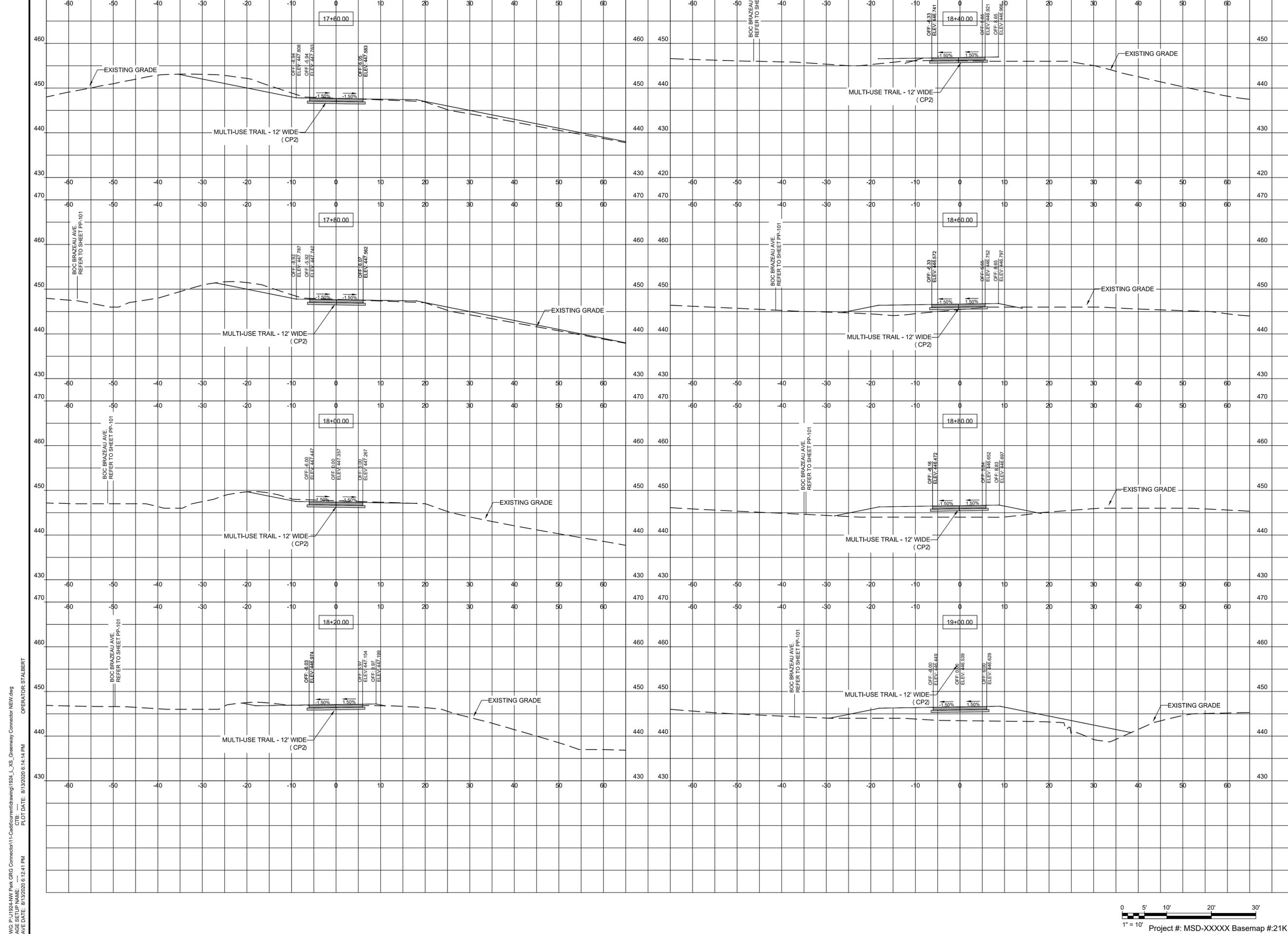
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 79 OF 92



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 OPERATOR: STALBERT
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**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
 60% DESIGN
 CROSS SECTION
GRG CONNECTOR

Jacobs
 JACOBS ENGINEERING GROUP INC.
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
 CERTIFICATE OF AUTHORITY: 000704
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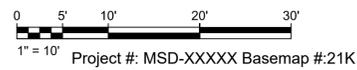
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
 314-531-4321 • FAX 314-531-6966 • WWW.HORNORSHIFRIN.COM
 DISCIPLINE: PROFESSIONAL ENGINEERING
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PDS
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 P.O. BOX 179279 SAINT LOUIS, MO 63117
 314-241-3800 • WWW.PLANNINGDESIGNSTUDIO.COM
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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NAME: -
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 DATE: 14 AUGUST 2020
 DESIGNED: J. NILGES
 DRAWN: H. BROWN
 CHECKED: A. FRANKE
 HS JOB NO. 1815600
 JACOBS JOB NO. 707841CH



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

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HORNER SHIFRIN

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DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

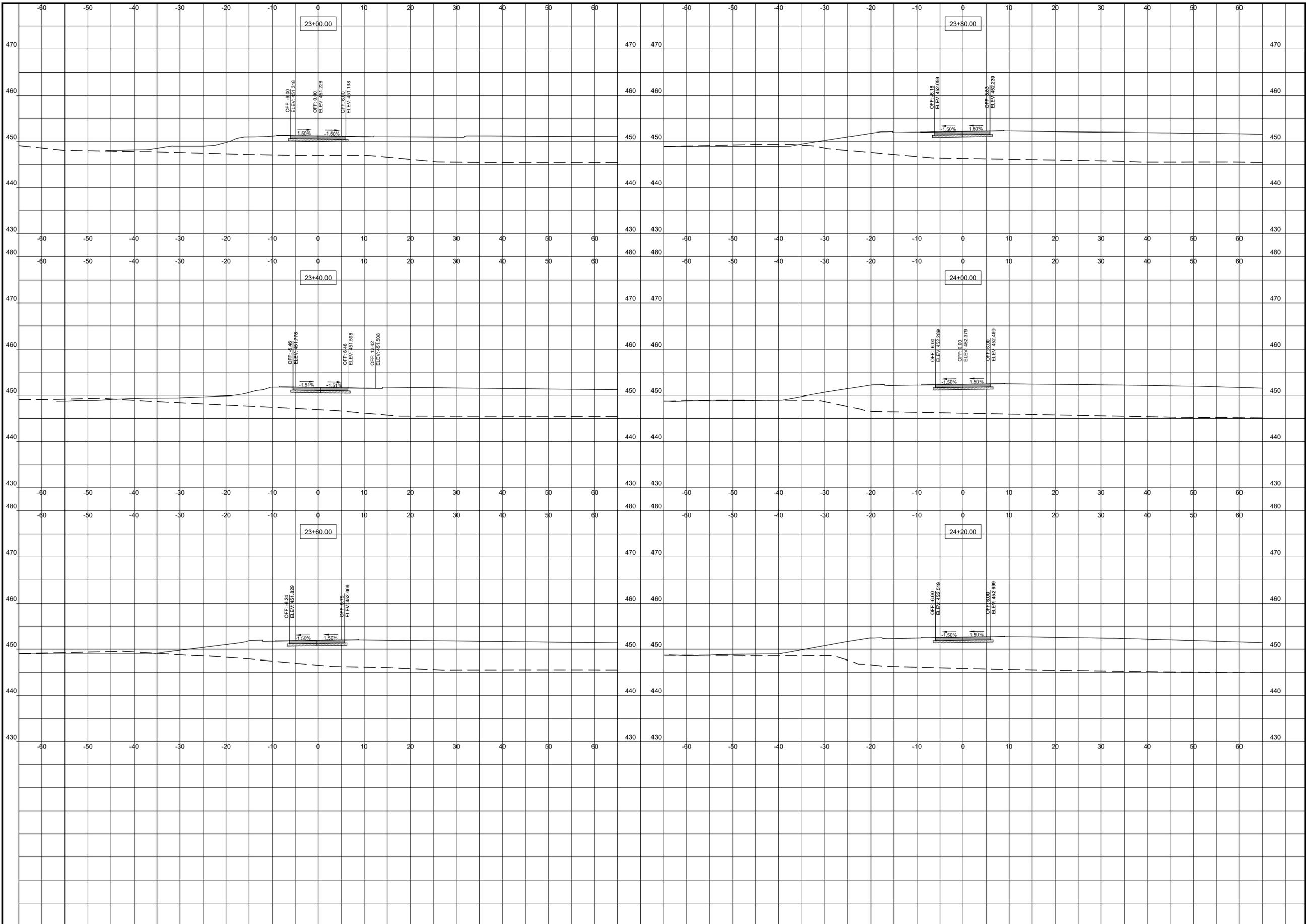
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 81 OF 92



Project #: MSD-XXXXX Basemap #.21K



**GREAT RIVERS GREENWAY
CONNECTOR PROJECT**
60% DESIGN
CROSS SECTION
GRG CONNECTOR

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
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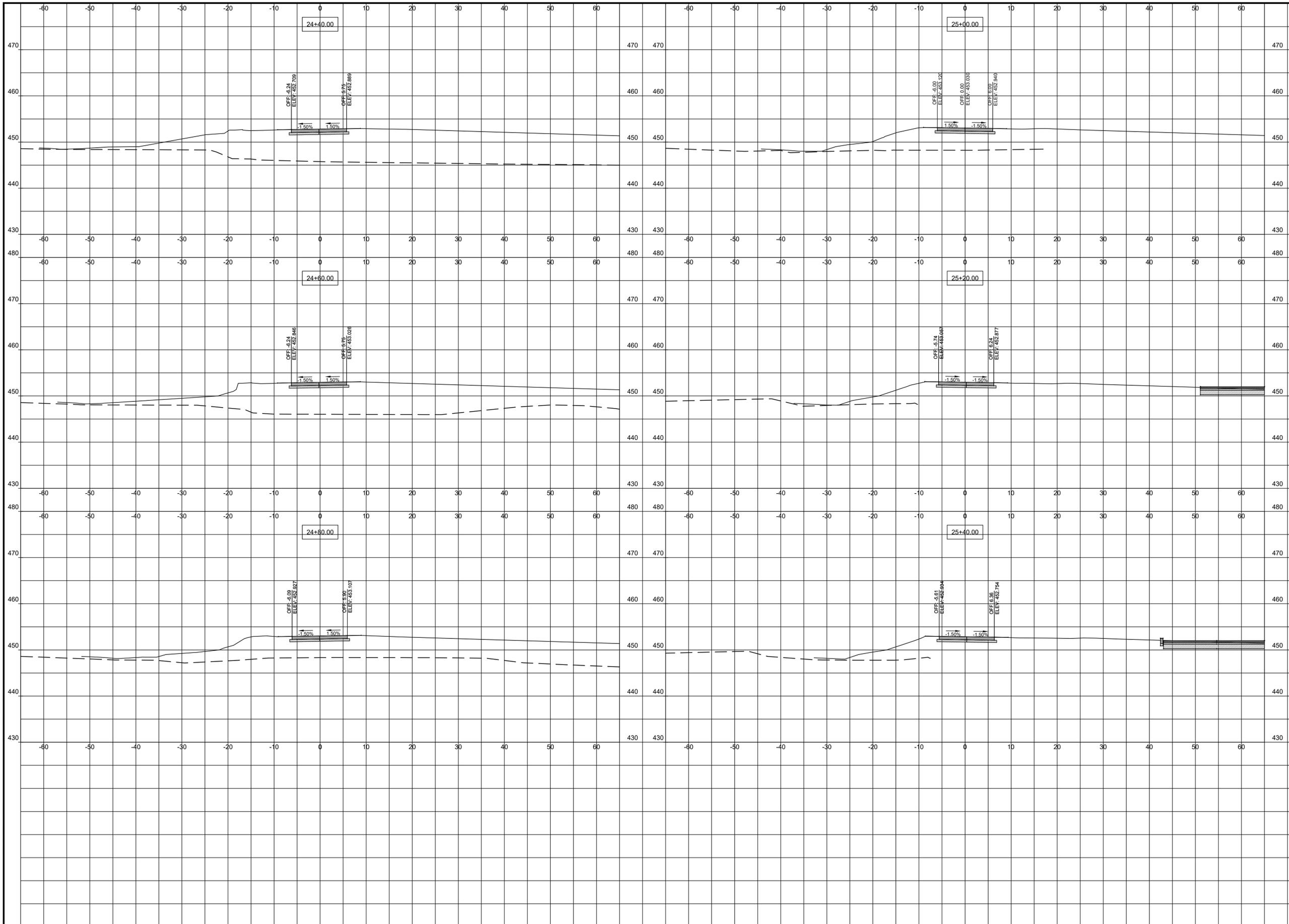
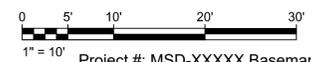
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LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

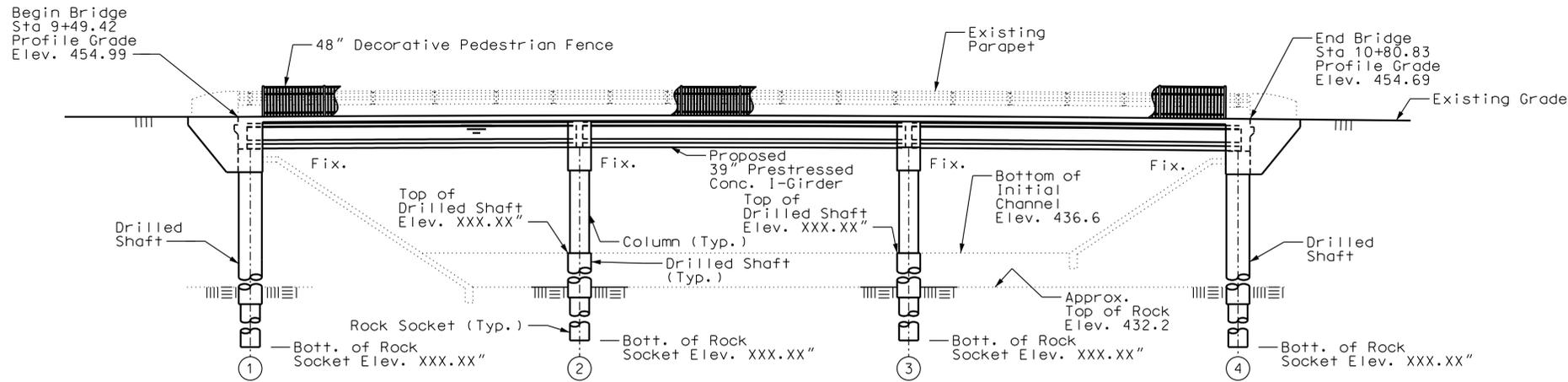
DESIGNED: J. NILGES
DRAWN: H. BROWN
CHECKED: A. FRANKE

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

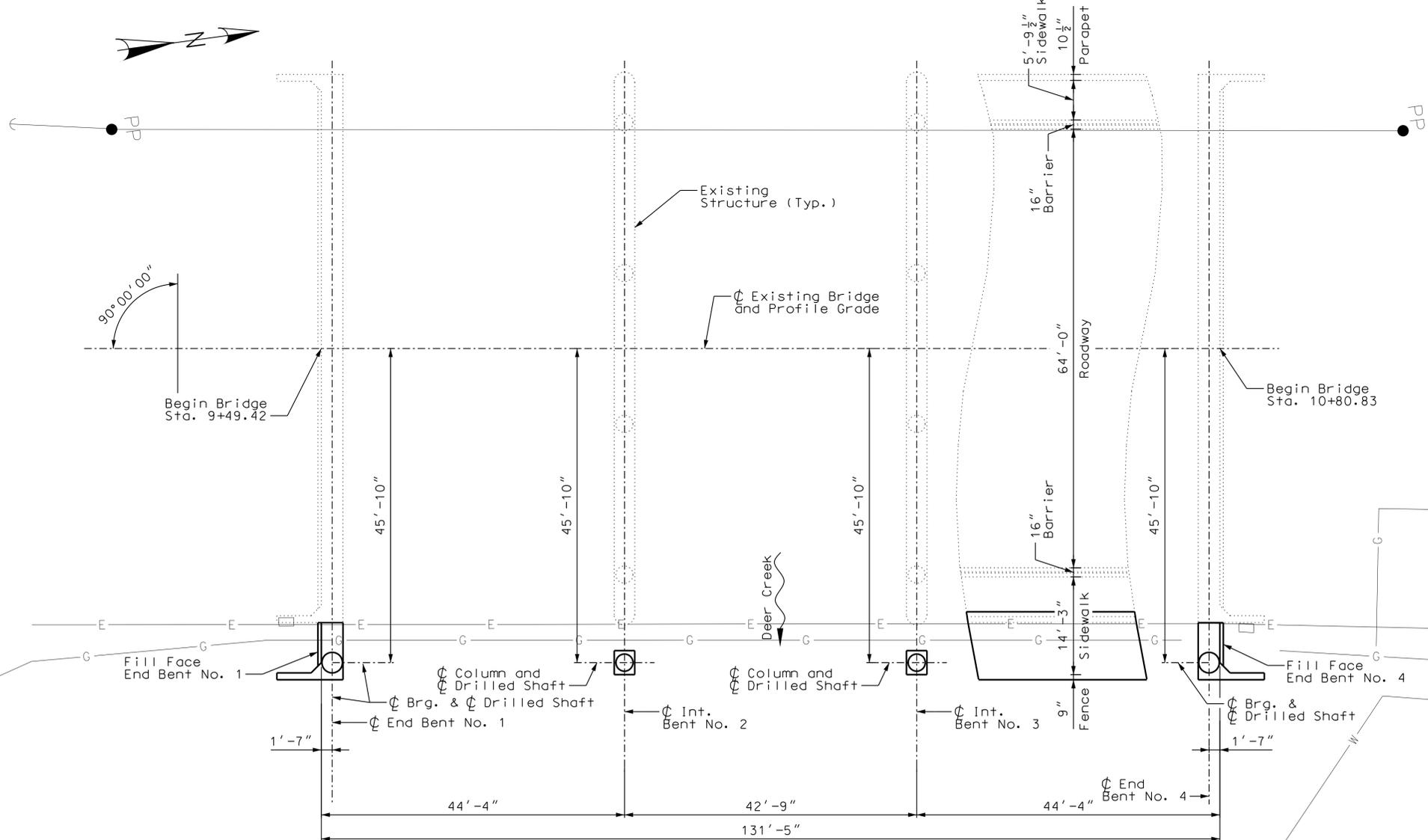
SHEET 82 OF 92



WIDEN (42.7'-42.7'-42.7') PRESTRESSED CONCRETE I-GIRDER SPANS

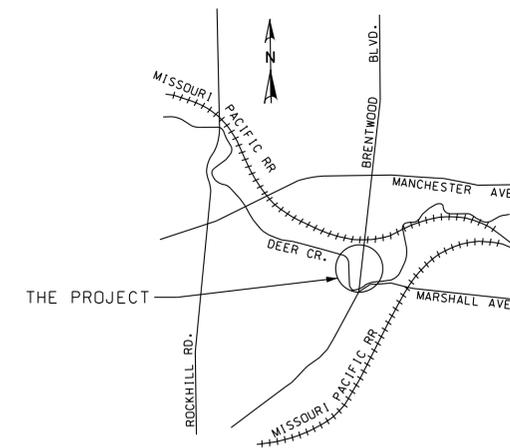


GENERAL ELEVATION



Note: All bents are perpendicular to the ϕ Profile Grade.

GENERAL PLAN



SITE LOCATION MAP

Note: Dimensions based on the original design plans of existing bridge. Contractor shall verify all dimensions in field before ordering new material.

NO.	DATE	REVISION

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PRELIMINARY
NOT FOR
CONSTRUCTION

NAME: -
DISCIPLINE: -
LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 83 OF 92

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT
60% DESIGN
STAGE CONSTRUCTION**

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

PDS
Planning Design Studio

P.O. BOX 179279 SAINT LOUIS, MO 63117
314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
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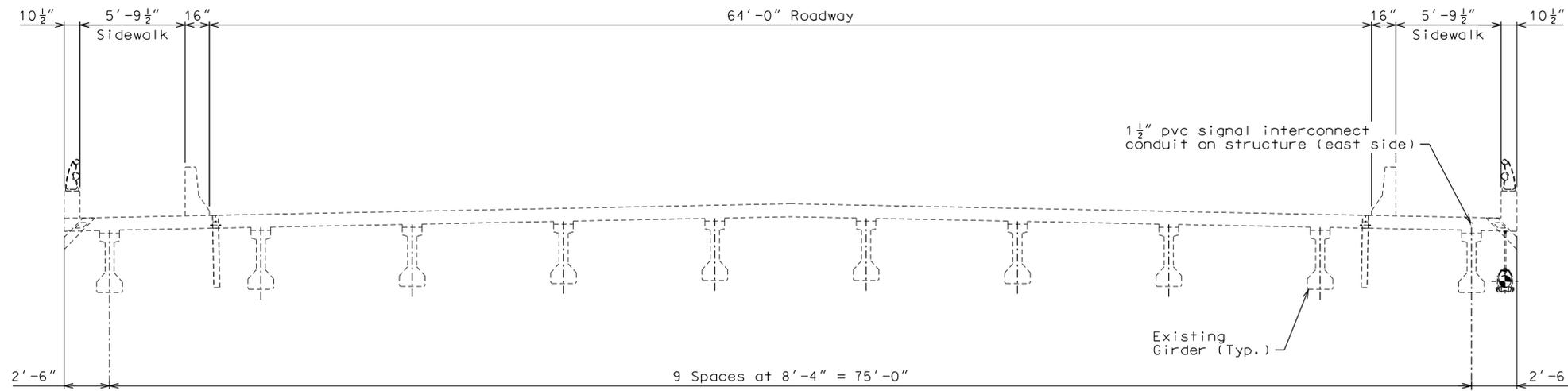
DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

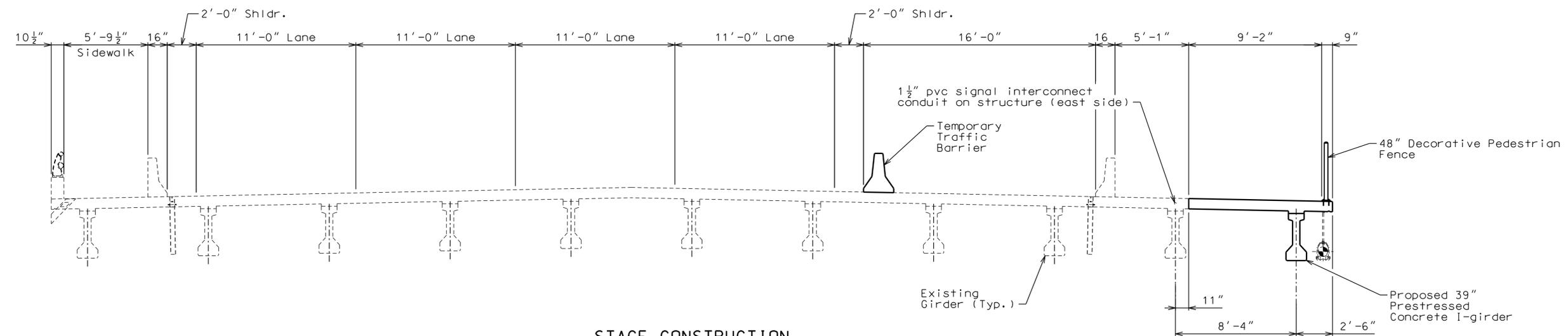
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 85 OF 92

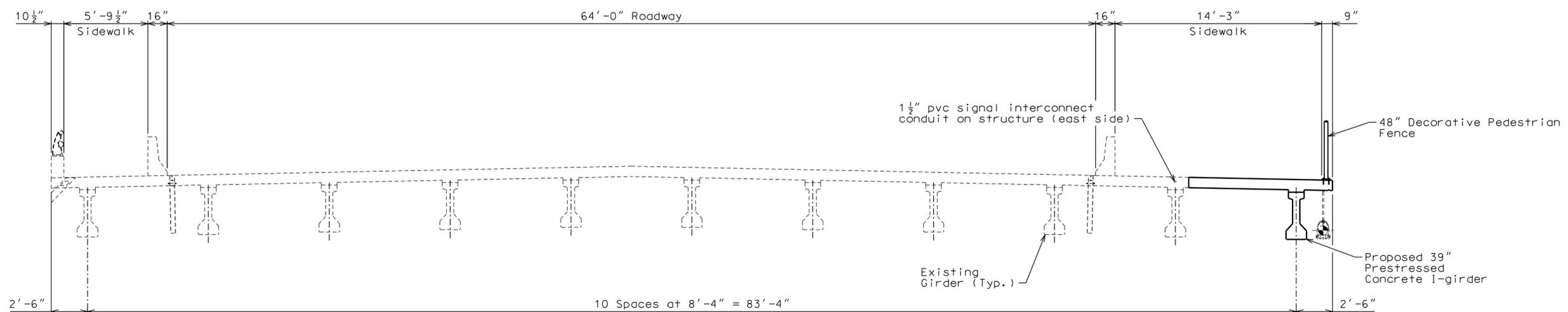
ST-3



TYPICAL SECTION (EXISTING)



STAGE CONSTRUCTION



TYPICAL SECTION (FINAL)

OPERATOR: SCHUETD

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PLOT DATE: 10/16/2018 8:05:14 AM

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT
60% DESIGN
END BENT NO. 1**

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
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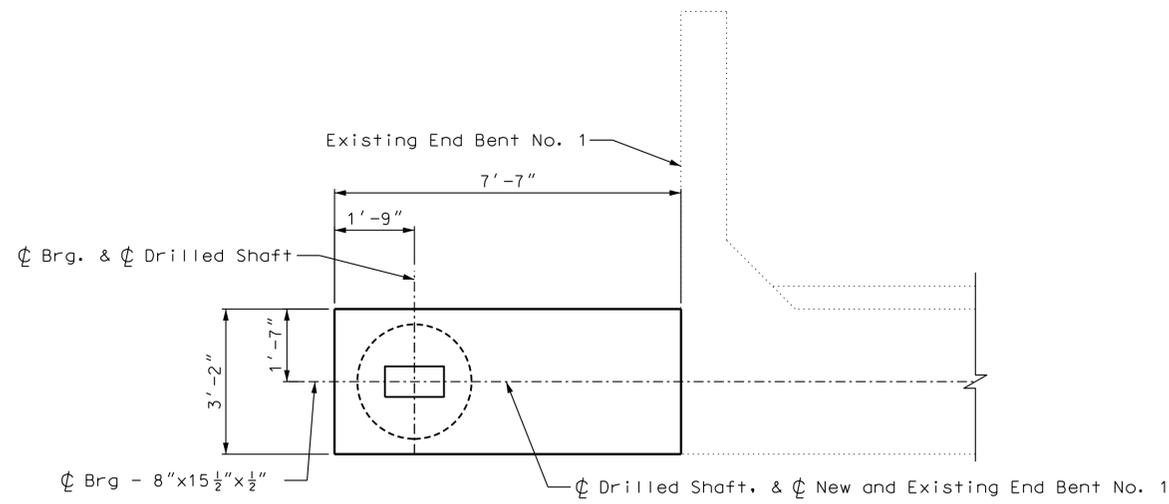
DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

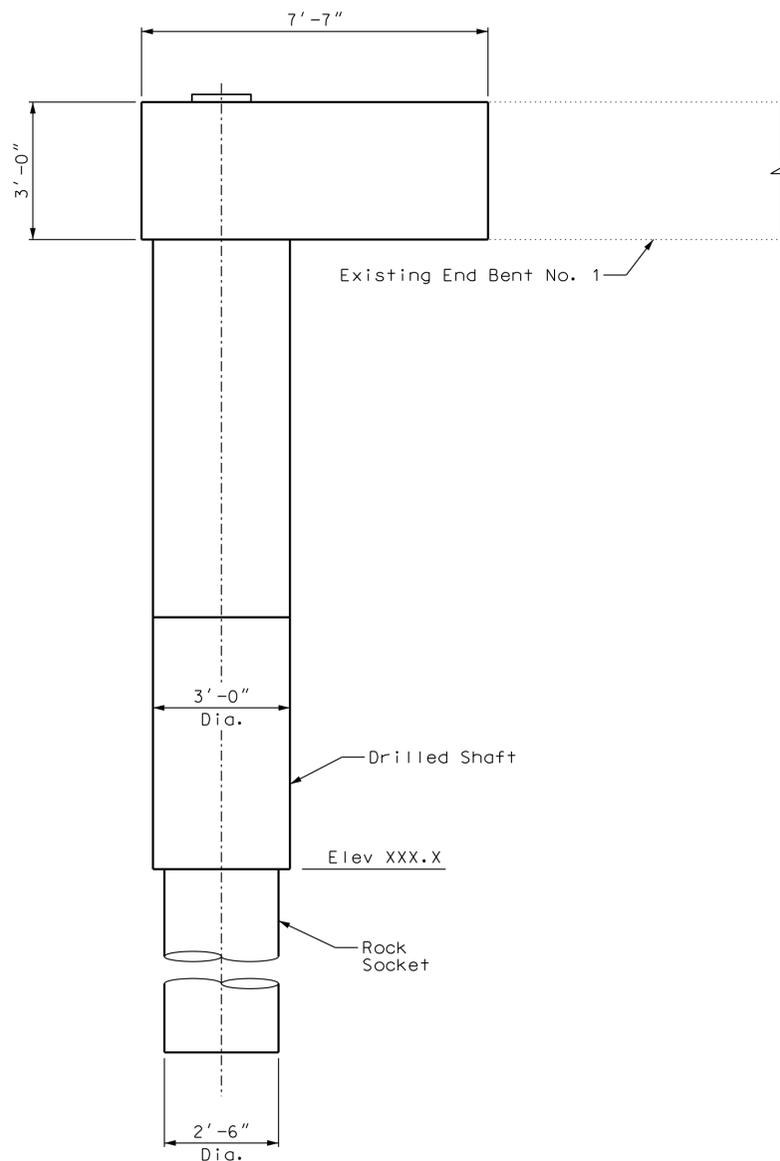
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 86 OF 92

ST-4



PLAN



ELEVATION

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT
60% DESIGN**

INTERMEDIATE BENT NO. 2 & 3

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2206
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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NAME: -
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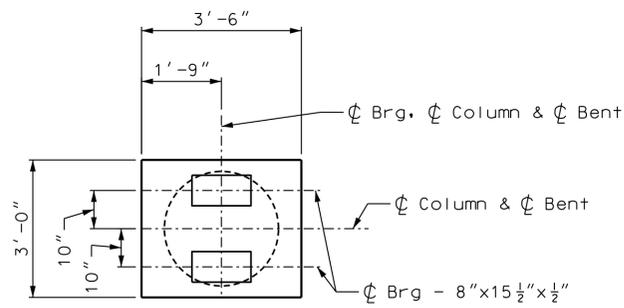
DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

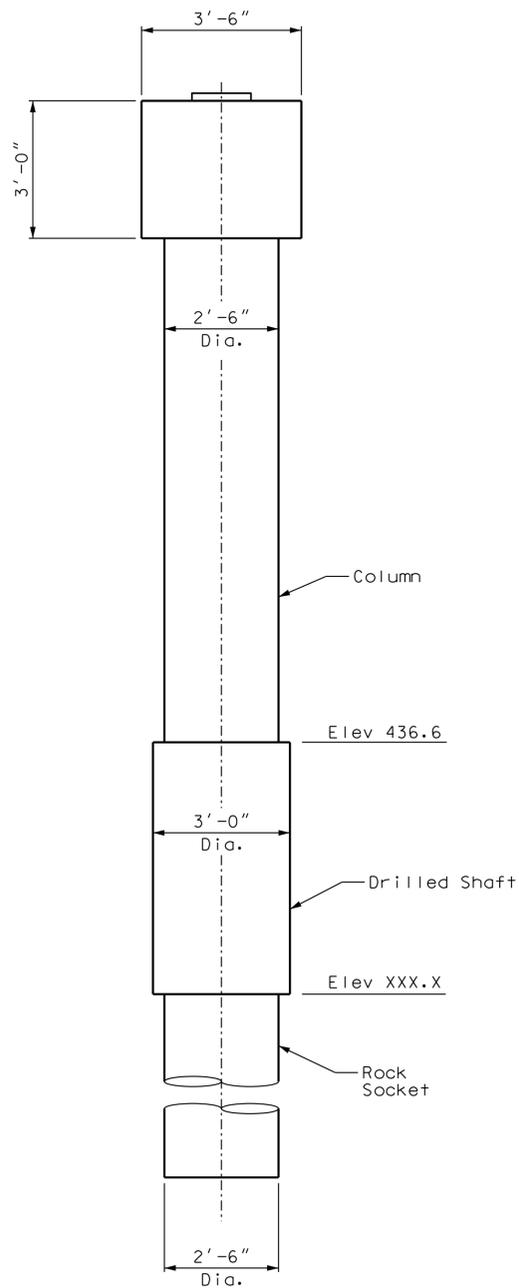
HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 87 OF 92

ST-5



PLAN



ELEVATION

**GREAT RIVERS GREENWAY
CONNECTOR PROJECT
60% DESIGN
END BENT NO. 4**

Jacobs

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
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HORNER SHIFRIN

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PDS
Planning Design Studio

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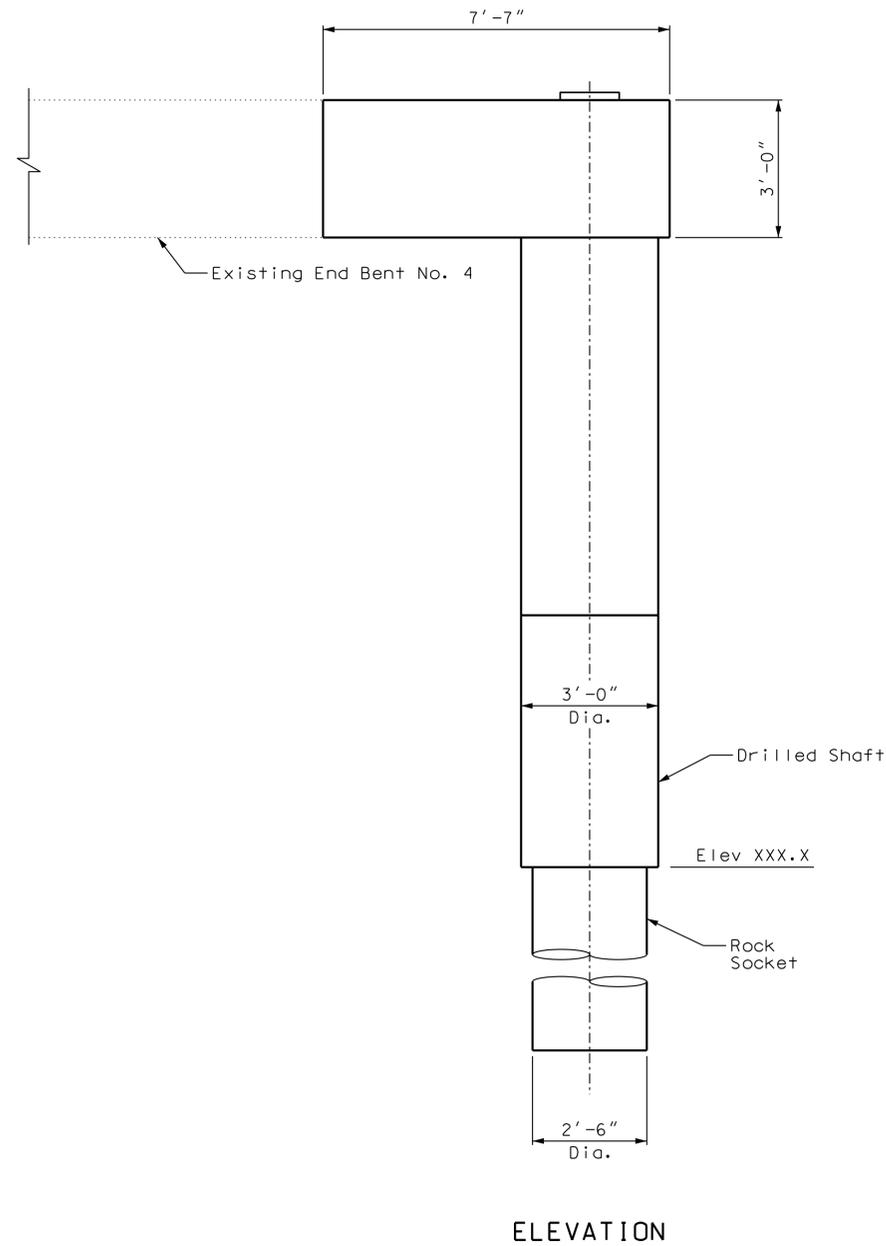
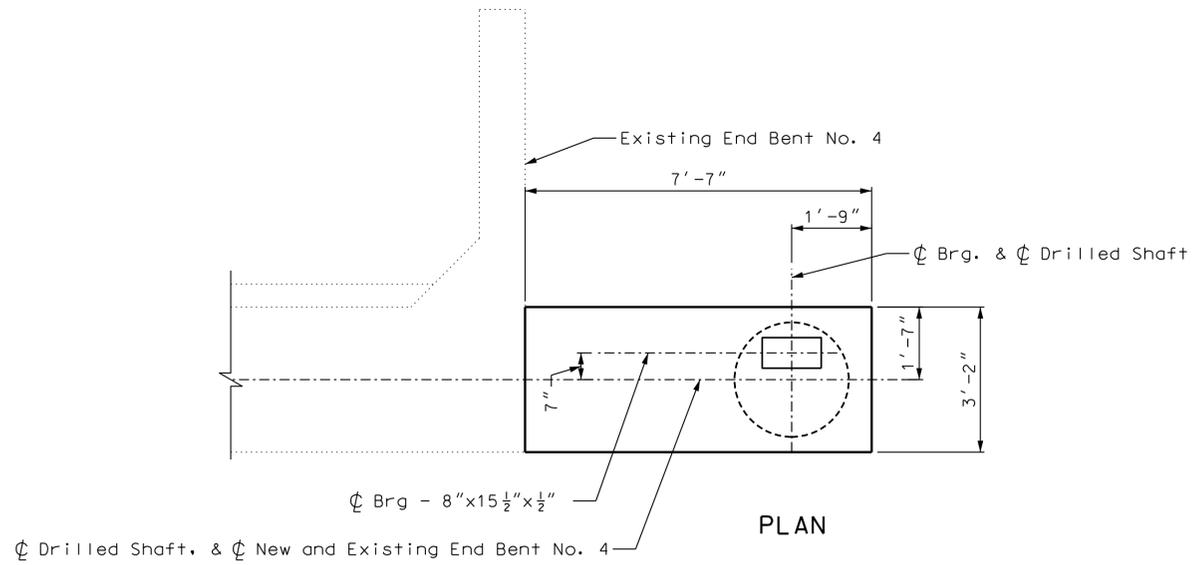
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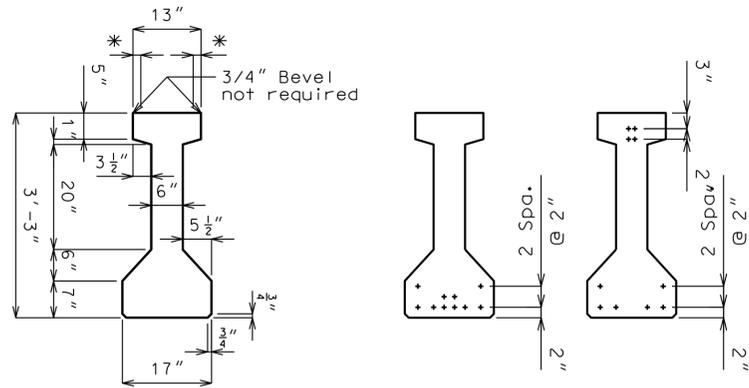
DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 88 OF 92

ST-6





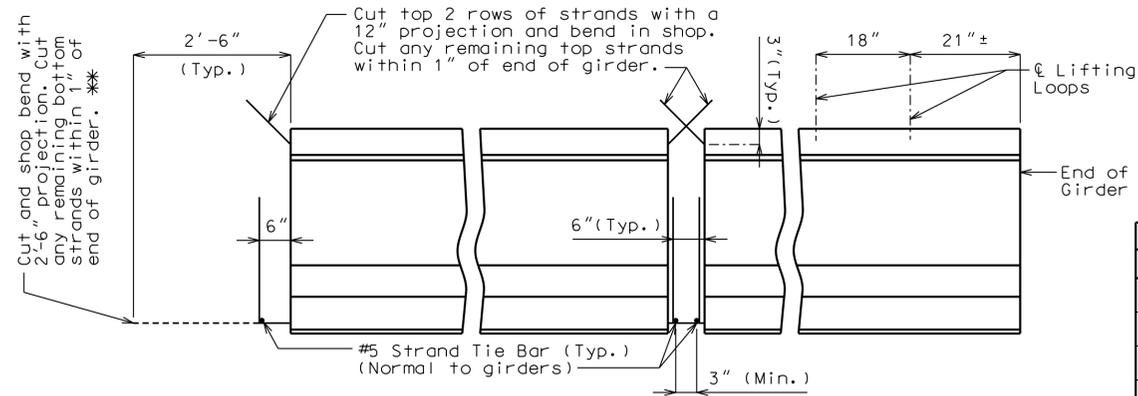
GIRDER DIMENSIONS & **END OF GIRDER STRAND ARRANGEMENTS**

Concrete for prestressed girders shall be Class A-1 with $f'_{ci} = 5000$ psi and $f'_c = 4000$ psi.

(+) indicates prestressing strand.

Use 10 strands with an initial prestress force of 28.9 kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 1/2 inch diameter in accordance with AASHTO M 203, Grade 270. Pretensioned members shall be in accordance with Sec 1029.



END BENT STRAND DETAILS AT GIRDER ENDS and **INTERMEDIATE BENT STRAND DETAILS AT GIRDER ENDS**

* At contractor's option a 1 1/2" to 1 3/4" smooth finish strip is permitted to facilitate placement of preformed fiber expansion joint material or expanded or extruded polystyrene bedding material for the prestressed panels.

** At the contractor's option the location for bent-up strands may be varied from that shown for fully bonded strands only. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

BILL OF REINFORCING STEEL - EACH GIRDER

NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM
XXX	X A1	X'-X"	20	
XXX	X B1	X'-X"	11	
16	6 B2	4'-0"	11	
XXX	4 C1	13"	10	
XXX	4 D1	2'-5"	9	

Fabricator shall be responsible for location and design of lifting devices.

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRS Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

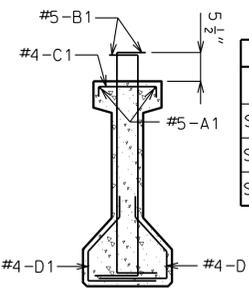
All reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

TABLE OF BEAM DIMENSIONS

	① Bk	① Ah	2
Span 1	5"	6.5"	20'-11.5"
Span 2	6.5"	6.5"	20'-6.5"
Span 3	7"	6.5"	20'-8"



SECTION B-B
Strands not shown for clarity.

Cost of 3/4"Ø coil tie rods placed in diaphragms will be considered completely covered by the contract unit price for Prestressed Concrete I-Girder.

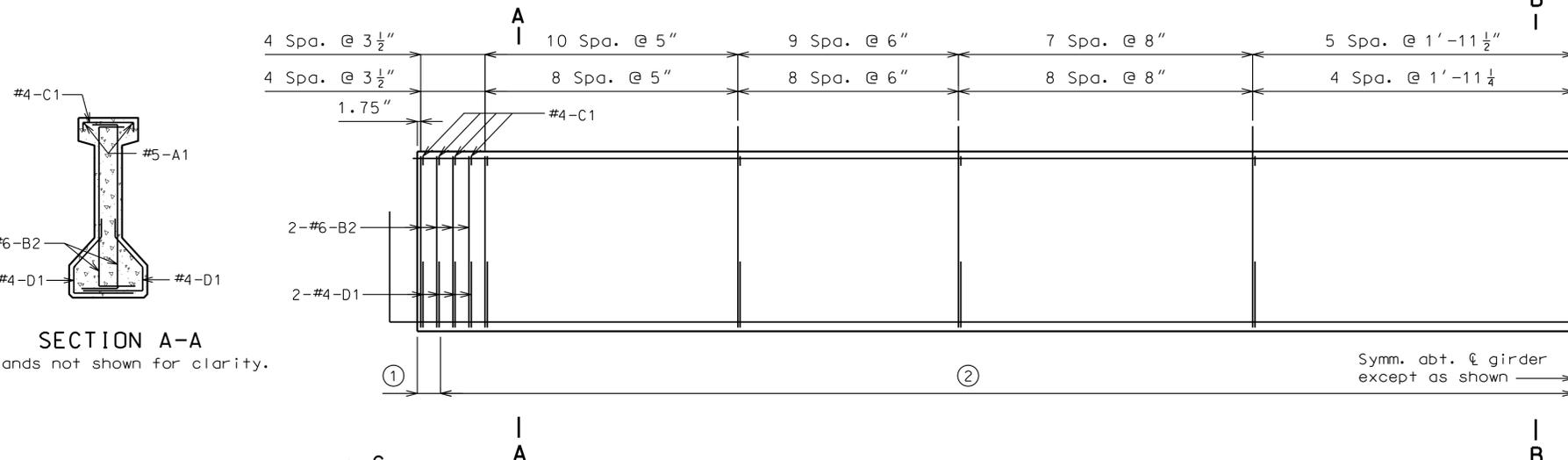
Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting through forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

For location of coil inserts at slab drains, see Sheet No. .

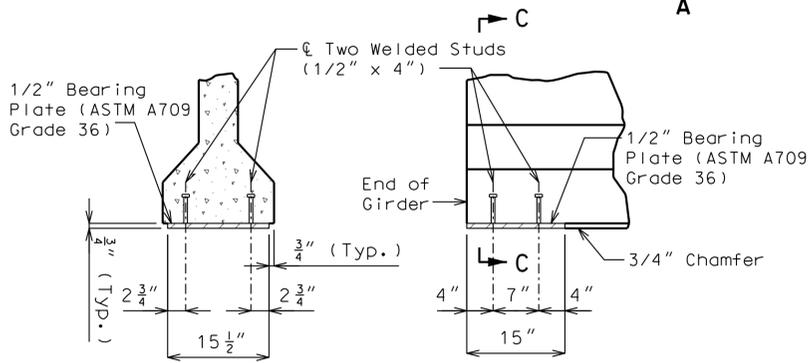
For location of coil ties at concrete bent diaphragms, see Sheets No. & .

The 1 1/2"Ø holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed. For location of holes and details of steel intermediate diaphragms, see Sheet No. .

For Girder Camber Diagram, see Sheet No. .



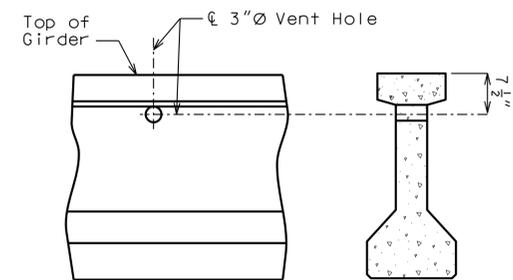
HALF ELEVATION OF GIRDER SPAN (1-3)



SECTION C-C BEARING PLATE DETAILS

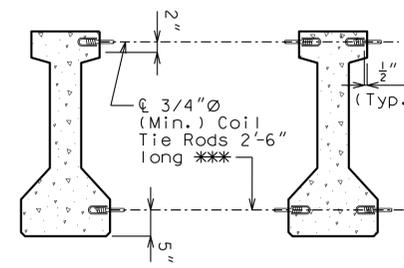
Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete I-Girder.



DETAILS OF VENT HOLE

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum



DETAILS OF COIL TIES

** Length of coil tie rods at exterior face of exterior girders at end bents = 1' .

Note: This drawing is not to scale. Follow dimensions.

JACOBS ENGINEERING GROUP INC.
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2131
PHONE: 314-335-4000
CERTIFICATE OF AUTHORITY: 000704
EXPIRATION DATE: DECEMBER 31, 2020

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ARCHITECT
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2020

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314-241-3600 • WWW.PLANNINGDESIGNSTUDIO.COM
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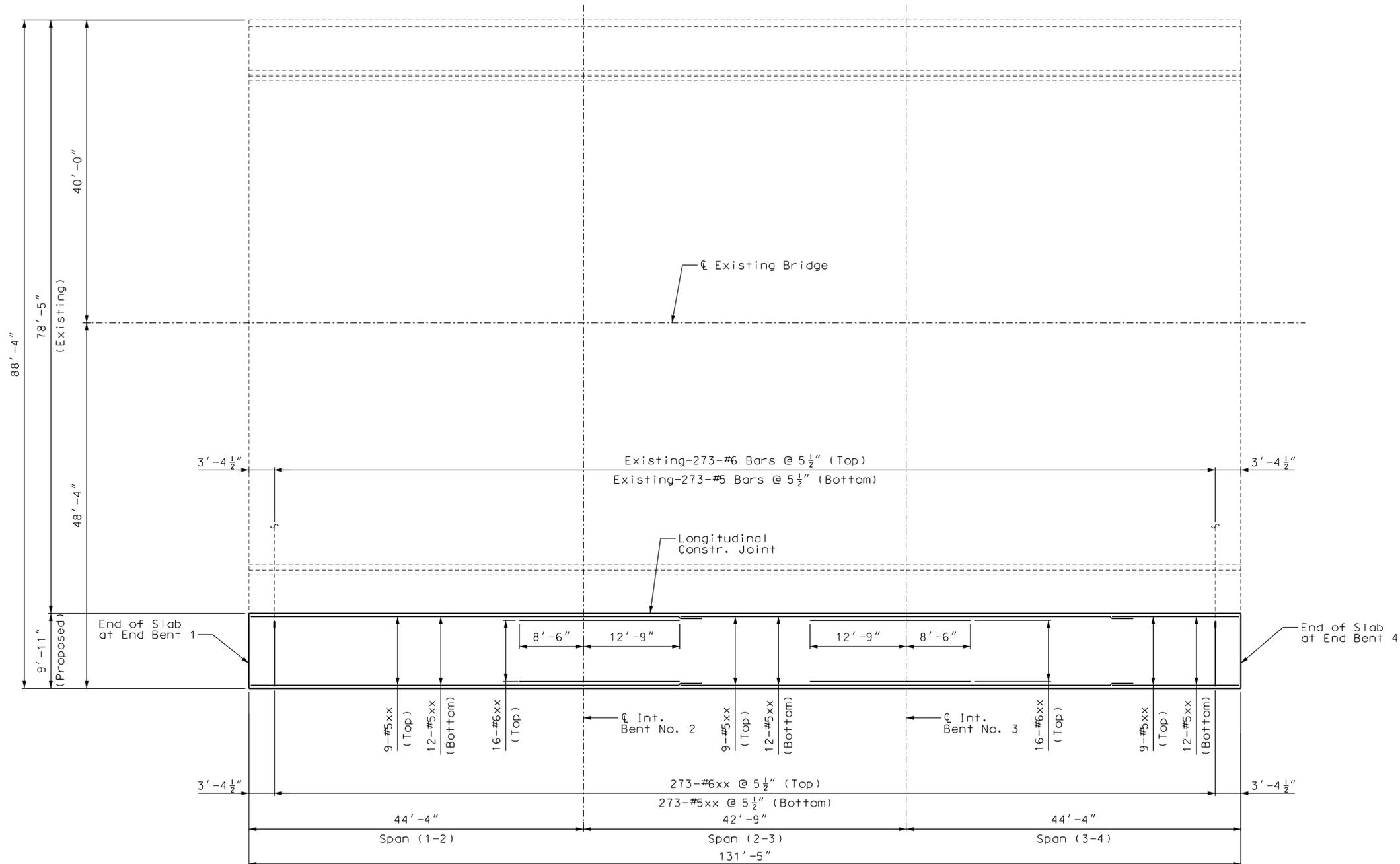
NAME: -
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LICENSE NO.: -
EXPIRATION DATE: -

DATE: 14 AUGUST 2020

DESIGNED: M. MUEKNS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

HS JOB NO. 1815600
JACOBS JOB NO. 707841CH

SHEET 89 OF 92



TOP AND BOTTOM SLAB REINFORCEMENT PLAN

Notes:
 Longitudinal slab dimensions are measured horizontally.
 For Section through slab, see Sheet No. xx.
 For Theoretical Slab Haunching diagram and Theoretical Bottom of Slab Elevations, see Sheet No. xx.

**GREAT RIVERS GREENWAY
 CONNECTOR PROJECT**
 60% DESIGN
PLAN OF SLAB

Jacobs
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 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2131
 PHONE: 314-335-4000
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 SHIFRIN**
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LICENSE NO.:	-
EXPIRATION DATE:	-
DATE:	14 AUGUST 2020
DESIGNED:	M. MUENKS
DRAWN:	M. MEYER
CHECKED:	S. HOFFMAN
HS JOB NO.:	1815600
JACOBS JOB NO.:	707841CH
SHEET	90 OF 92

ST-8

DWG: C:\Users\schuie\Desktop\Border\F3W92600-GRS-TB.dwg
 PLOT DATE: 4/29/2020 10:27:41 AM
 OPERATOR: SCHUETD
 PLOT DATE: 10/16/2018 8:05:14 AM

GREAT RIVERS GREENWAY CONNECTOR PROJECT
60% DESIGN
TYPICAL SECTION

Jacobs

JACOBS ENGINEERING GROUP INC.
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ST. LOUIS, MISSOURI 63102-2131
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HORNER SHIFRIN

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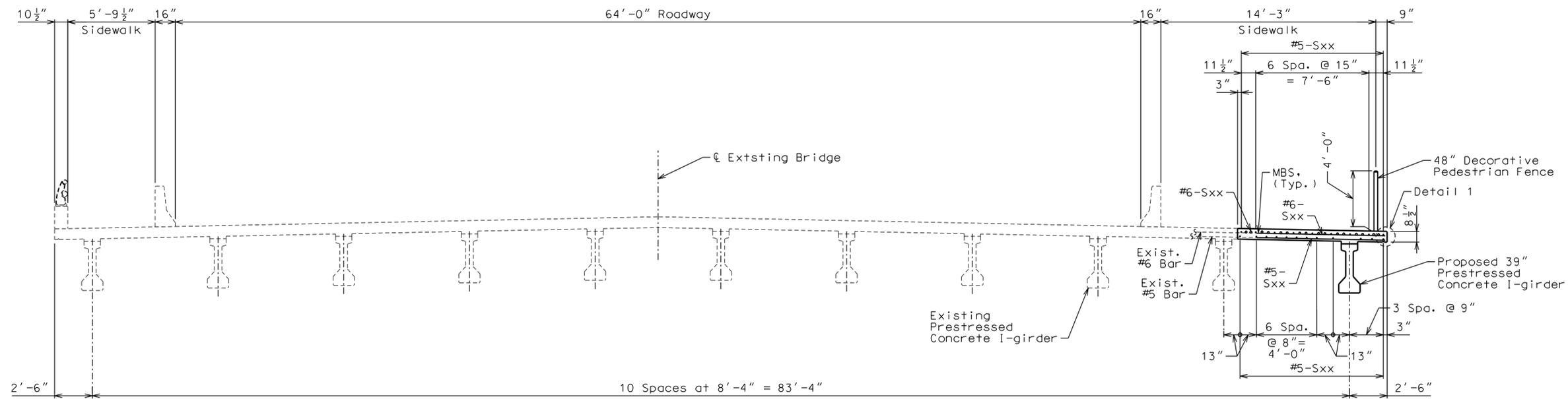
DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
CHECKED: S. HOFFMAN

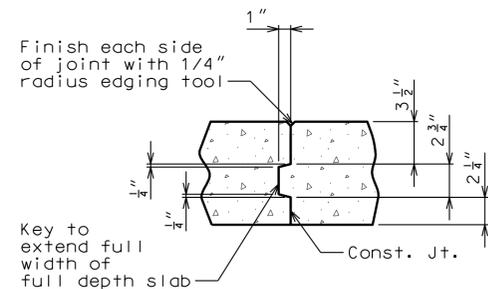
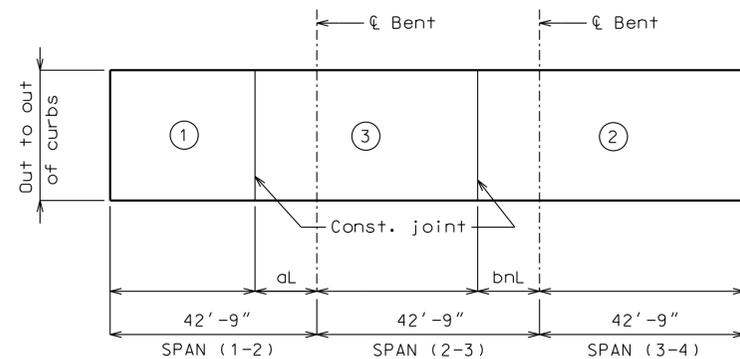
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SHEET 91 OF 92

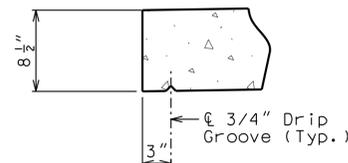
ST-9



TYPICAL SECTION



SLAB CONSTRUCTION JOINT



DETAIL 1

Notes:

For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. .

For Plan of Slab Showing Reinforcement, see Sheet No. .

For details of 48" Pedestrian Fence, see Sheet No. ---

	Sequence of Pours			Min. rate of pour cu. yds./hr.	
	Direction			With retarder	No retarder
Basic sequence	1	2	3	25	25
	Either direction				
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.					
Alternate "A" pours	1	3 + 2			
	End to 3		1 to end		
Alternate "B" pours	1 + 3 + 2				
	End to end				

Note: The contractor shall pour and satisfactorily finish the slab pours at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

SLAB POURING SEQUENCE

NO.	DATE	REVISION

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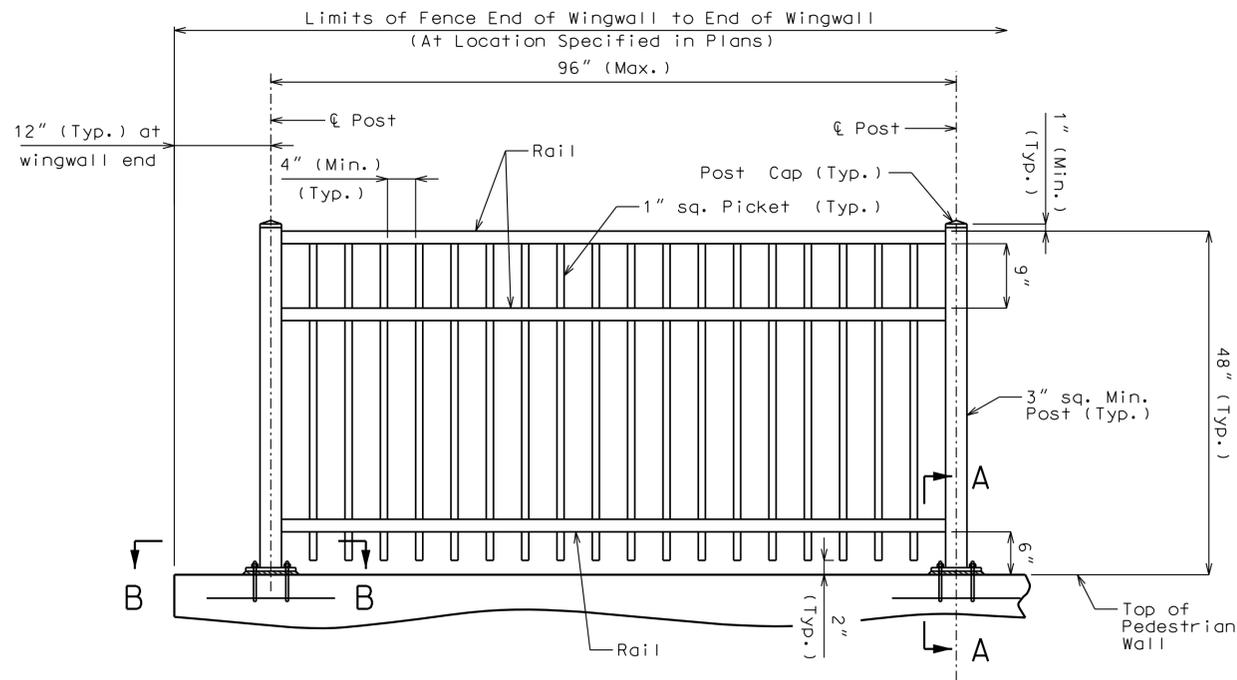
DATE: 14 AUGUST 2020

DESIGNED: M. MUENKS
DRAWN: M. MEYER
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JACOBS JOB NO. 707841CH

SHEET 92 OF 92

ST-10



TYPICAL FENCE PANEL ELEVATION

Adjacent panels and deck slab not shown for clarity.

Notes:

Decorative pedestrian fencing shall be in accordance with 2017 AASHTO LRFD Bridge Design Specifications. The design line load for pedestrian railings will not require a 50lb/ft and 200 lb load be applied simultaneously.

Fence shall have a gloss black finish (Federal Standard #17038) System "G" in accordance with Sec 1081.

Base plate shall be ASTM A709, Grade 36.

Dimensions of pedestrian fence are measured horizontally.

Measurement of pedestrian fence will be made to the nearest linear foot along centerline fence.

Payment for furnishing and erecting the fence, complete in place, with U-Bolts, washers and reinforcing bars will be considered completely covered by the contract unit price for (48 in.) Decorative Pedestrian Fence (Structures).

All fence posts shall be vertical.

Substitution for the U-Bolt cages on the decorative pedestrian fence will not be permitted.

Mortar shall be placed under the post base plates in accordance with Sec 1066.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

The contractor shall have the decorative pedestrian fencing manufacturer submit structural design computations signed and sealed by a registered professional engineer in the State of Missouri.

All materials used in fabrication and construction of the decorative pedestrian fencing shall be in accordance with the manufacturer's specifications, except as modified in the contract documents.

Decorative pedestrian fencing system shall be supplied by only one of the manufacturers. Fencing system shall include all components except the anchor bolts and #4 bars welded to the anchor bolts. The assembly of the pickets to the rails and the rails to the posts shall be the same as the style mentioned for the manufacturer.

Ameristar Fence Products, Inc.
1555 N. Mingo
Tulsa, OK. 74116
(800) 321-8724
www.ameristarfence.com

Style: AEGIS II Majestic

Betafence USA
3309 S.W. Interstate 45
Ennis, TX. 75119
(888) 650-4766
www.betafenceusa.com

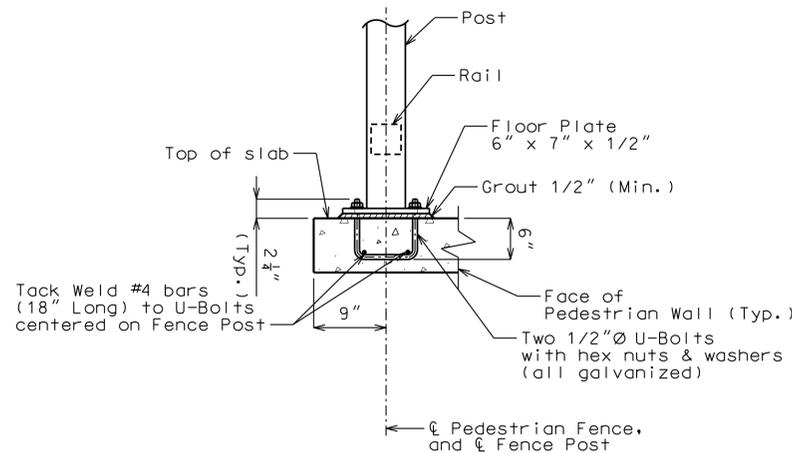
Style: UpGrade-I Landmark

Iron Eagle Industries, Inc.
1256 Cardiff Blvd.
Mississauga, Ontario Canada L5S1R1
(905) 670-2558
www.ironeagleind.com

Style: Silver Eagle II

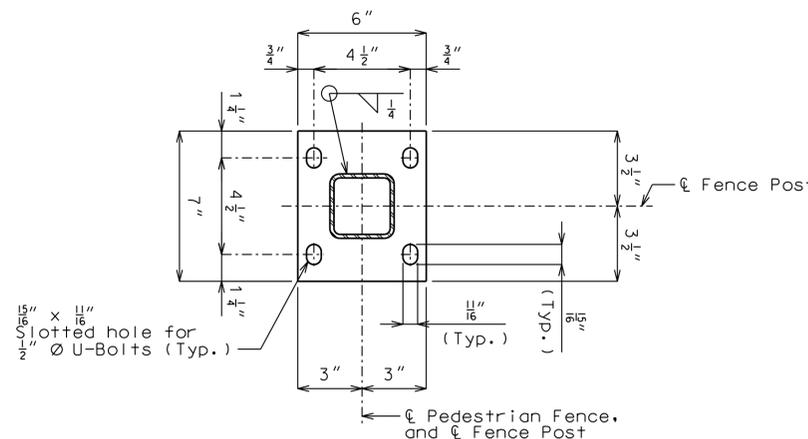
Merchants Metals
6575 Romiss Court
St. Louis, MO 63134
(800) 293-3363
www.merchantsmetals.com

Style: Guardsman Monroe



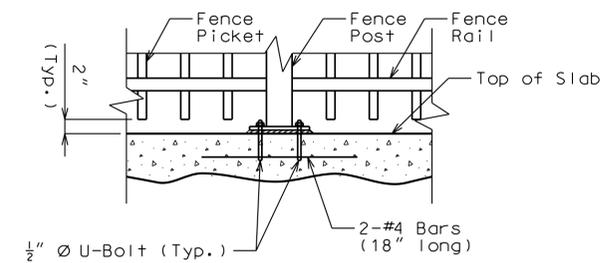
**SECTION A-A
AT FENCE SUPPORT**

Note: Reinforcement not shown for clarity.



PLAN OF FLOOR PLATE

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**SECTION B-B
AT FENCE SUPPORT**