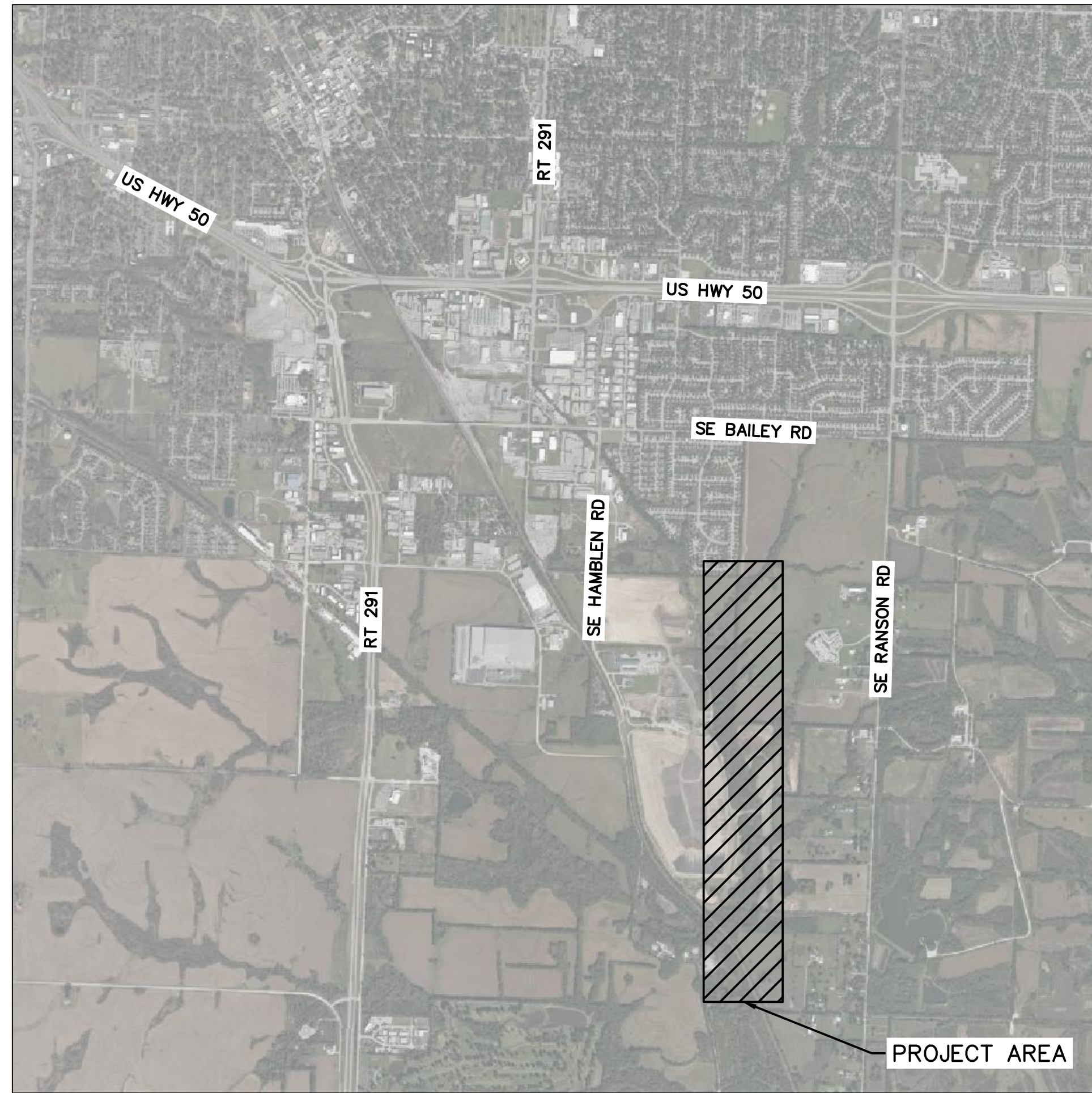


BIG CREEK INTERCEPTOR SEWER UPSIZING LEE'S SUMMIT MIDDLE SCHOOL #4 LEE'S SUMMIT, MISSOURI 2021

UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF LEE'S SUMMIT, MISSOURI	220 SE GREEN
CITY HALL	816.969.1000
BUILDING INSPECTIONS	816.969.1200
SPECIAL INSPECTIONS	816.969.1200
BUILDING PERMITS	816.929.1200
LAND DEVELOPMENT DIVISION/INSPECTIONS	816.969.1200
TRAFFIC OPERATIONS	816.969.1800
LEE'S SUMMIT WATER UTILITIES	1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 816.969.1900
LEE'S SUMMIT PUBLIC WORKS	816.969.1800
SPIRE (MGE)	314.642.0500
EVERGY	8700 EAST FRONT STREET KANSAS CITY, MO 64120 816.471.5275
TELEPHONE SERVICE	
AT&T	816.221.1781
CABLE TELEVISION SERVICE	
SPECTRUM	877.772.2253
GOOGLE FIBER	877.454.6959



LOCATION MAP
NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
G1	TITLE SHEET
G2	LEGENDS ABBREVIATIONS & SYMBOLS
G3	GENERAL NOTES
G4	GENERAL LAYOUT
C1	SANITARY PLAN AND PROFILE
C2	SANITARY PLAN AND PROFILE
C3	SANITARY PLAN AND PROFILE
C4	SANITARY PLAN AND PROFILE
C5	SANITARY PLAN AND PROFILE
C6	SANITARY PLAN AND PROFILE
C7	SANITARY PLAN AND PROFILE
C8	CASING ABANDONMENT
C9	STANDARD DETAILS
C10	STANDARD DETAILS
C11	STANDARD DETAILS
C12	EROSION CONTROL PLAN
C13	EROSION CONTROL PLAN
C14	EROSION CONTROL DETAILS



**PUBLIC SANITARY
SEWER
AS-BUILTS
07.25.2023**

Prepared by Olsson:

Brooks A. Hudson



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1	8-25-2021	ASI #29 - REVISED PER CITY COMMENTS	
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4	12-17-2021	ASI #39 - REVISED PER CITY COMMENTS	

TITLE SHEET	2021
BIG CREEK INTERCEPTOR SEWER UPSIZING LEE'S SUMMIT MIDDLE SCHOOL #4	
LEE'S SUMMIT, MO	

drawn by:	NG
checked by:	BH
approved by:	BH
QA/QC by:	JS
project no.:	020-01030
drawing no.:	
date:	07.15.2021

SHEET
G1

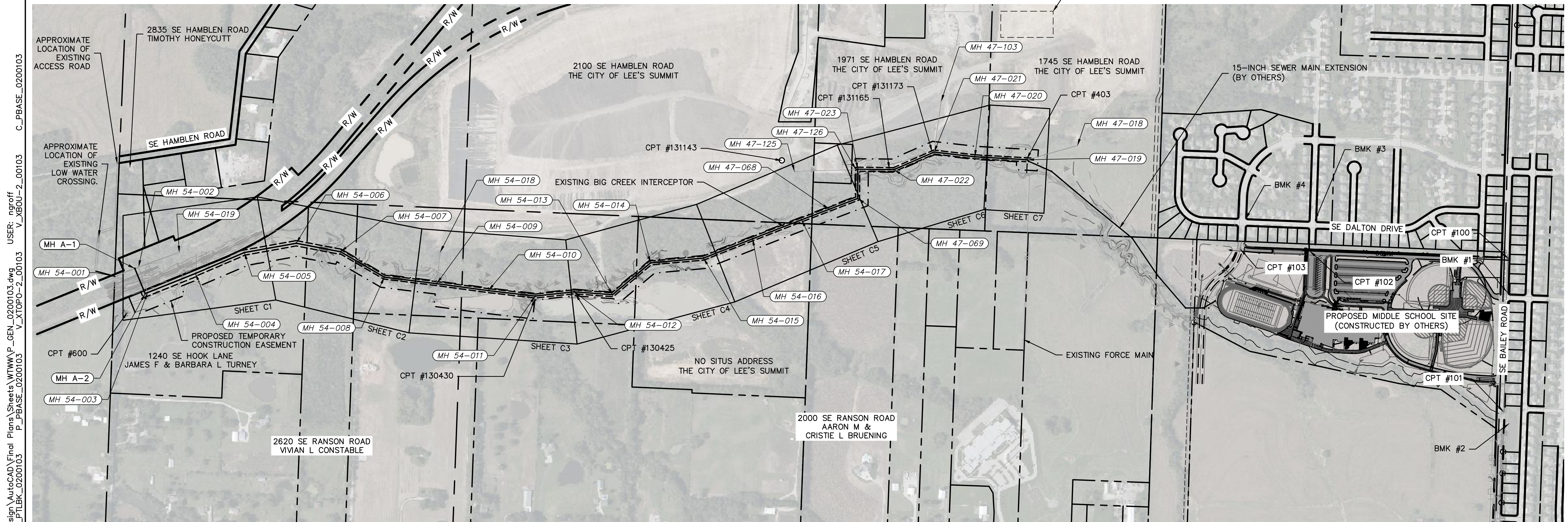
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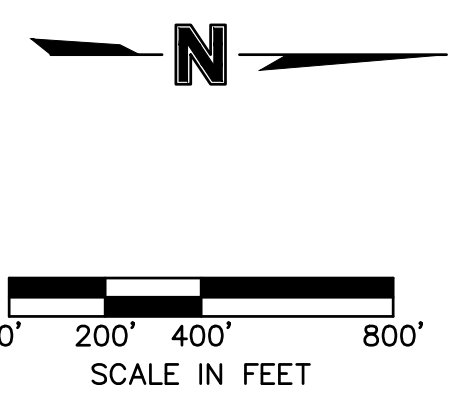
SUMMARY OF QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
MOBILIZATION	1	LS
CONSTRUCTION SURVEY AND STAKING	1	LS
CLEARING AND GRUBBING	1	LS
ABANDON STEEL CASING	1	LS
SEEDING	1	LS
SITE RESTORATION	1	LS
EROSION CONTROL	1	LS
DEWATERING	1	LS
BYPASS PUMPING	1	LS
24-INCH DIAMETER PVC GRAVITY SEWER (PS115) (LESS THAN 15 FEET DEEP)	1,650	LF
24-INCH DIAMETER PVC GRAVITY SEWER (PS115) (15 FEET DEEP OR GREATER)	1,950	LF
24-INCH DIAMETER DIP GRAVITY SEWER (SPECIAL THICKNESS CLASS 50) (LESS THAN 15 FEET DEEP)	1600	LF
24-INCH DIAMETER DIP GRAVITY SEWER (SPECIAL THICKNESS CLASS 50) (15 FEET DEEP OR GREATER)	250	LF

SUMMARY OF QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
30-INCH DIAMETER PVC GRAVITY SEWER (PS115) (15 FEET DEEP OR GREATER)	1,500	LF
30-INCH DIAMETER DIP GRAVITY SEWER (SPECIAL THICKNESS CLASS 50) (LESS THAN 15 FEET DEEP)	400	LF
30-INCH DIAMETER DIP GRAVITY SEWER (SPECIAL THICKNESS CLASS 50) (15 FEET DEEP OR GREATER)	350	LF
42-INCH INNER DIAMETER STEEL CASING PIPE (0.625-INCH WALL THICKNESS)	170	LF
REMOVE EXISTING MANHOLE	22	EA
60-INCH ID STANDARD MANHOLE (8 FOOT STANDARD DEPTH)	19	EA
60-INCH ID DROP MANHOLE (8 FOOT STANDARD DEPTH)	EA	EA
60-INCH ID STANDARD MANHOLE ADDITIONAL VERTICAL FEET	165	VF
60-INCH ID DROP MANHOLE ADDITIONAL VERTICAL FEET	10	EA
72-INCH ID STANDARD MANHOLE (8 FOOT STANDARD DEPTH)	1	EA
72-INCH ID STANDARD MANHOLE OVER EXISTING SEWER (8 FOOT STANDARD DEPTH)	1	EA
72-INCH ID STANDARD MANHOLE ADDITIONAL DEPTH	25	VF

SUMMARY OF QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
STREAM RESTORATION (INCLUDING STREAM STABILIZATION)	1	LS
IMPERVIOUS TRENCH CHECK	100	LF
REINFORCED CONCRETE ENCASEMENT	400	LF
POND REGRADING	1	LS



CONTRACTOR'S NOTE:
 EXISTING ACCESS ROAD FROM SE HAMBLEN ROAD AND LOW WATER CROSSING ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY SUITABILITY OF EXISTING ACCESS ROAD. ANY NECESSARY IMPROVEMENTS SHALL BE CONSTRUCTED BY THE CONTRACTOR FOR NO DIRECT PAY.



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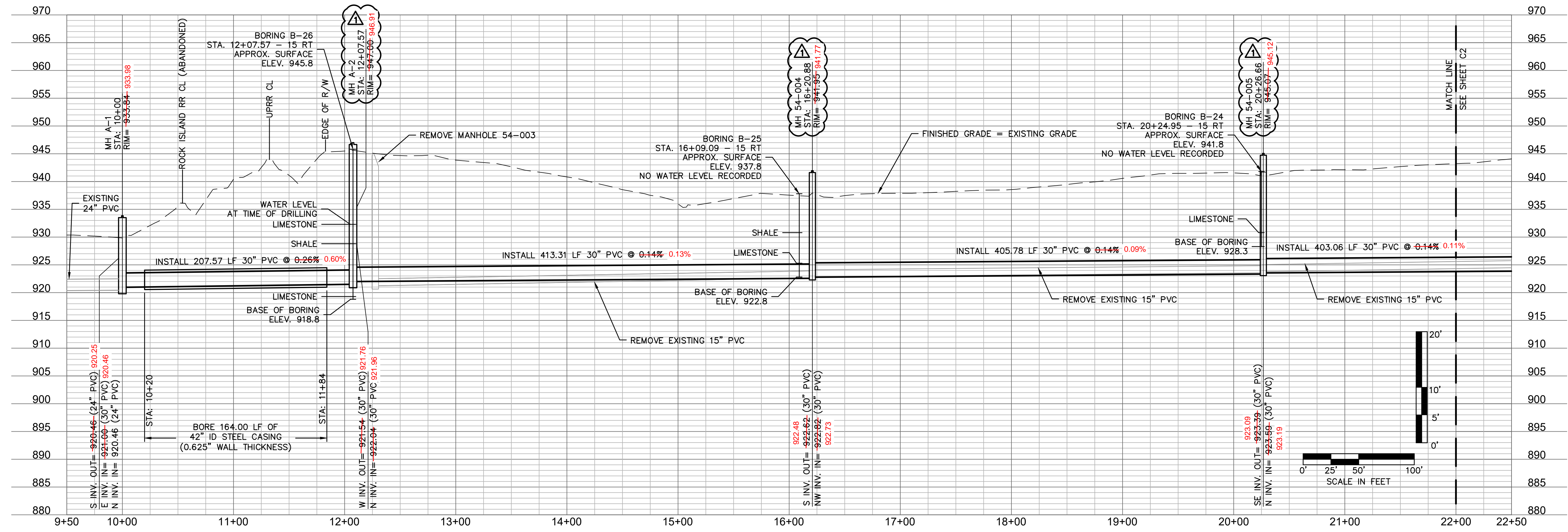
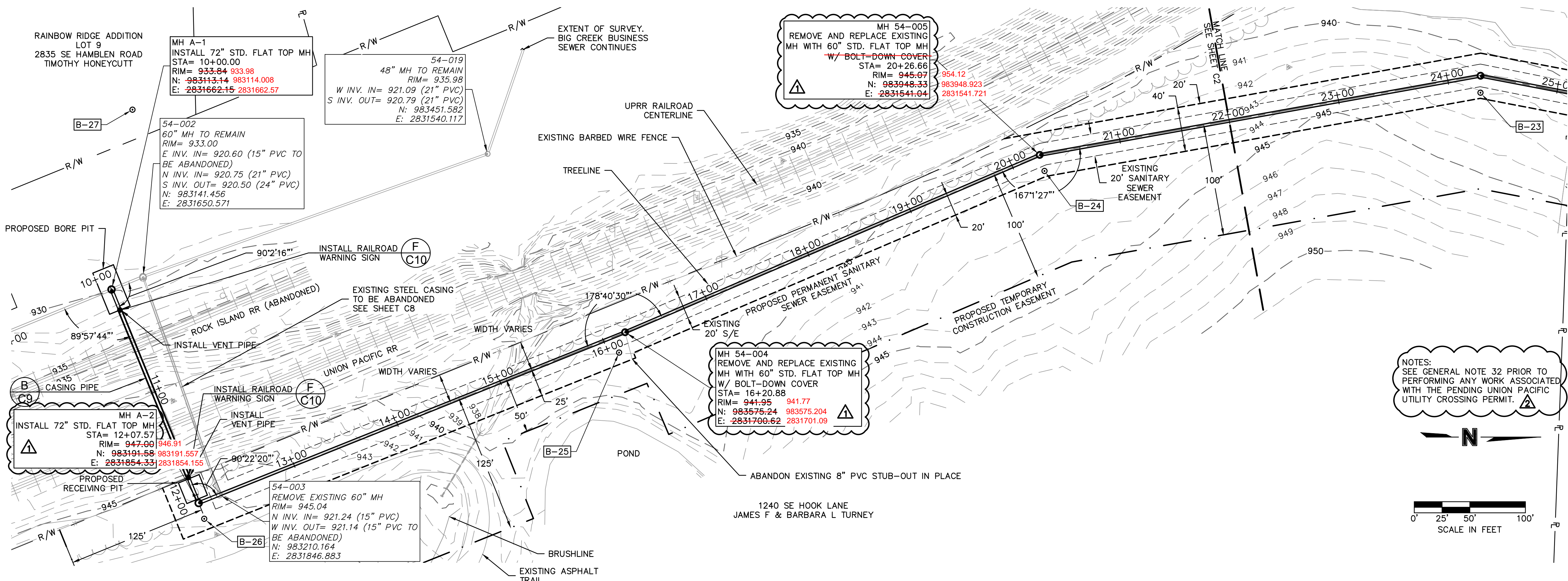
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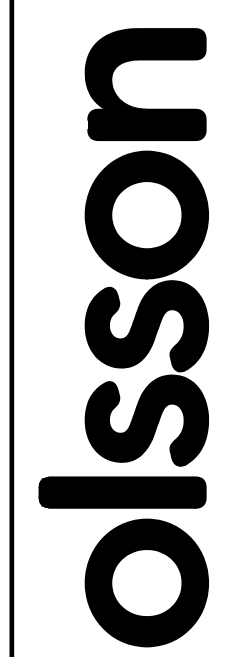
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BIG CREEK INTERCEPTOR SEWER UPSIZING	
LEE'S SUMMIT MIDDLE SCHOOL #4	
LEE'S SUMMIT, MO	

drawn by: NG
 checked by: BH
 approved by: BH
 QA/QC by: JS
 project no.: 020-01030
 drawing no.:
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NOTES:
 SEE GENERAL NOTE 32 PRIOR TO
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SANITARY PLAN AND PROFILE
 STATION 10+00 TO 22+00

BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT, MO

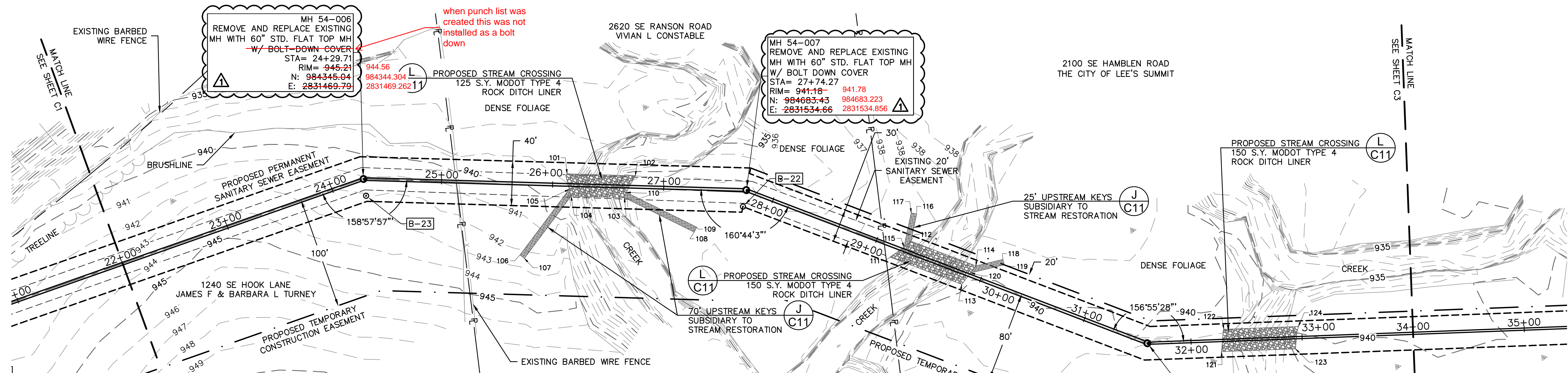
2021

REVISIONS

drawn by: _____ NG
 checked by: _____ BH
 approved by: _____ BH
 QA/QC by: _____ JS
 project no.: 020-01030
 drawing no.: _____
 date: 07.15.2021

SHEET
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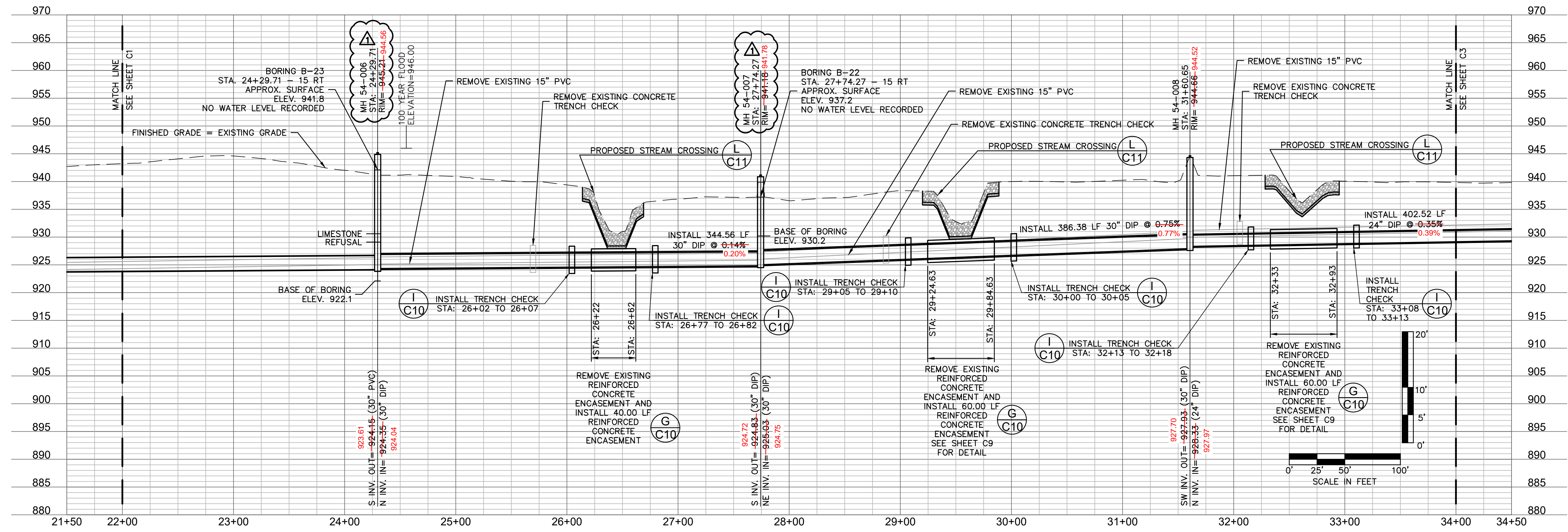
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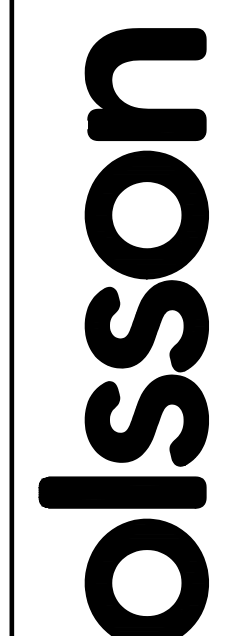


POINT #	NORTHING	EASTING	REMARKS
101	984526.64	2831494.42	SW CORNER OF STREAM RESTORATION
102	984506.96	2831496.192	NW CORNER OF STREAM RESTORATION
103	984524.14	2831523.89	NE CORNER OF STREAM RESTORATION
104	984526.93	2831514.84	SE CORNER OF STREAM RESTORATION
105	984526.37	2831508.43	SW CORNER OF KEY
106	984473.07	2831559.84	SE CORNER OF KEY
107	984476.54	2831563.44	NE CORNER OF KEY
108	984631.14	2831564.52	E CORNER OF KEY
109	984634.05	2831560.45	N CORNER OF KEY

POINT #	NORTHING	EASTING	REMARKS
110	984576.46	2831519.41	W CORNER OF KEY
111	984801.53	2831614.94	SE CORNER OF STREAM RESTORATION
112	984822.35	2831603.72	SW CORNER OF STREAM RESTORATION
113	984861.33	2831649.46	NE CORNER OF STREAM RESTORATION
114	984876.54	2831635.10	NW CORNER OF STREAM RESTORATION
115	984815.30	2831608.07	S CORNER OF KEY
116	984831.39	2831580.41	N CORNER OF KEY
117	984826.73	2831578.60	W CORNER OF KEY
118	984901.47	2831633.22	NW CORNER OF KEY

POINT #	NORTHING	EASTING	REMARKS
119	984901.84	2831638.21	NE CORNER OF KEY
120	984870.77	2831640.54	SE CORNER OF KEY
121	985087.66	2831727.12	SE CORNER OF STREAM RESTORATION
122	985104.150	2831730.153	SW CORNER OF STREAM RESTORATION
123	985148.44	2831754.78	NE CORNER OF STREAM RESTORATION
124	985154.24	2831735.34	NW CORNER OF STREAM RESTORATION





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4	12-17-2021	ASI #39 - REVISED PER CITY COMMENTS

SANITARY PLAN AND PROFILE
 STATION 22+00 TO 34+00

BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4

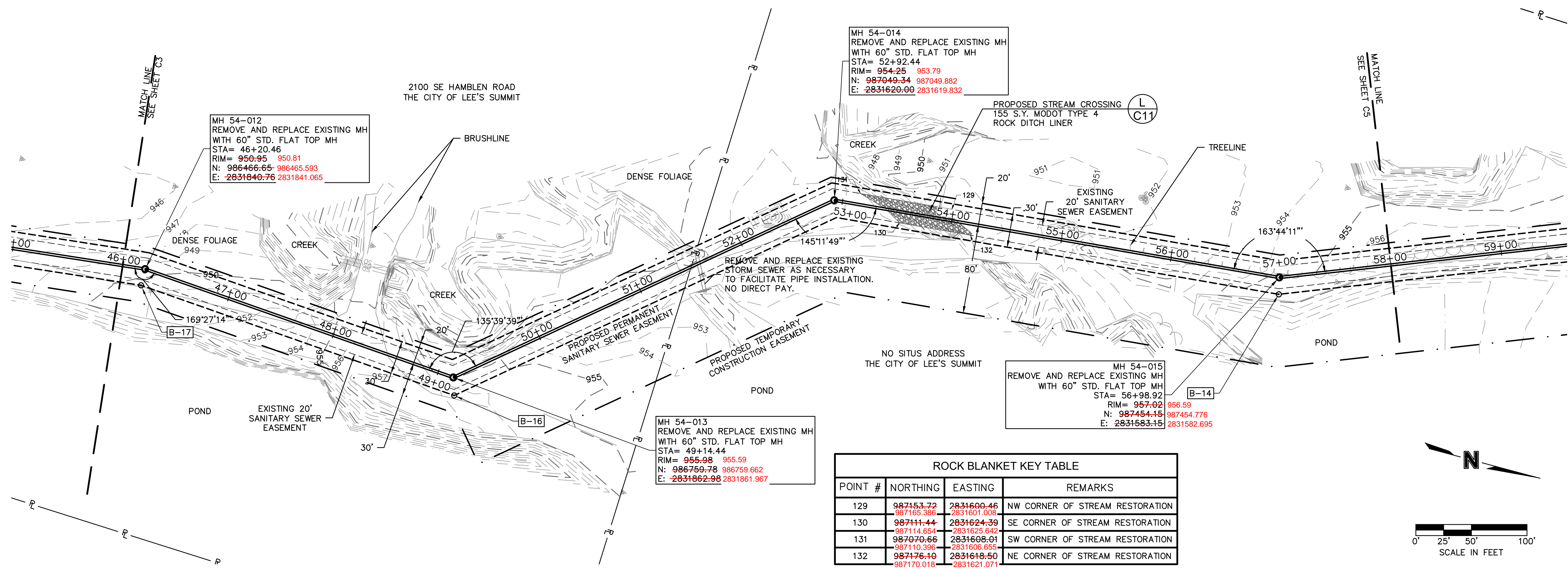
LEE'S SUMMIT, MO

2021

drawn by:		NG
checked by:		BH
approved by:		BH
QA/QC by:		JS
project no.:	020-01030	
drawing no.:		
date:	07.15.2021	

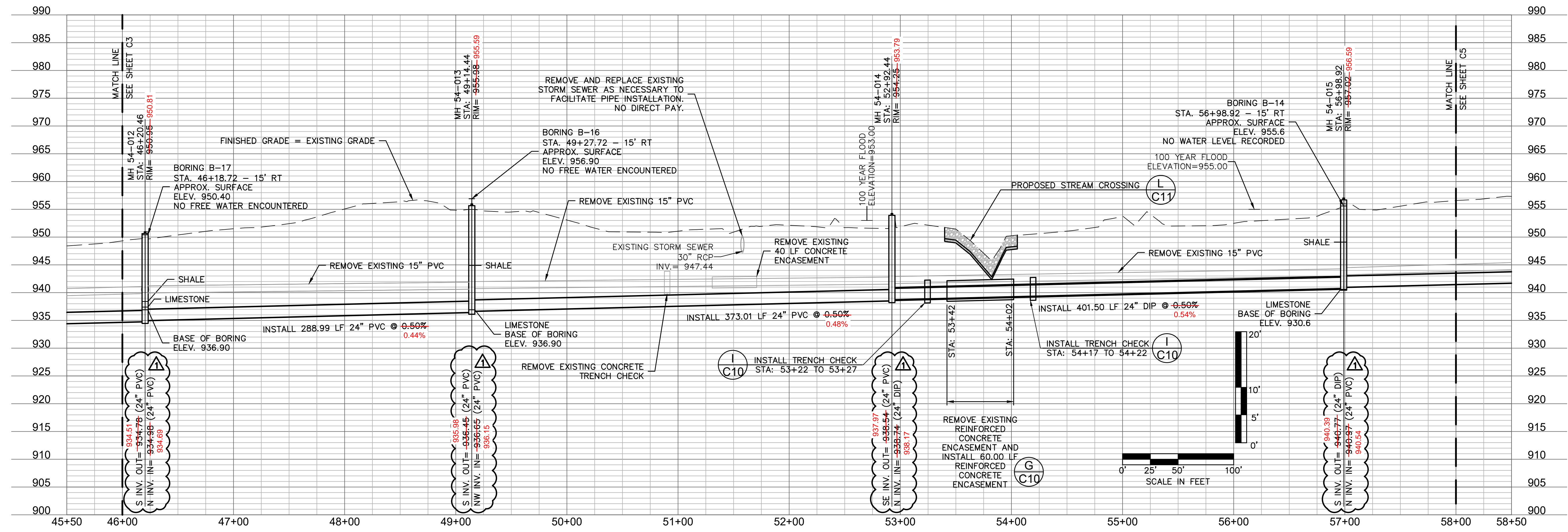
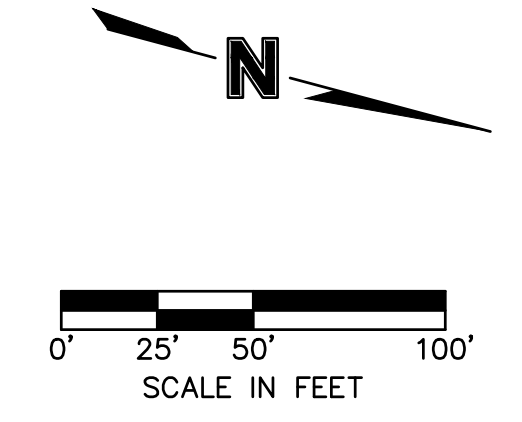
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 USER: ngrcoff



ROCK BLANKET KEY TABLE

POINT #	NORTHING	EASTING	REMARKS
129	987153.72 987165.386	2831600.46 2831601.008	NW CORNER OF STREAM RESTORATION
130	987111.44 987114.654	2831624.39 2831625.842	SE CORNER OF STREAM RESTORATION
131	987070.66 987110.396	2831608.01 2831606.655	SW CORNER OF STREAM RESTORATION
132	987176.10 987170.018	2831618.50 2831621.071	NE CORNER OF STREAM RESTORATION



AS-BUILTS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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2	10-14-2021	REVISED FOR MDIR SUBMITTAL	
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4	12-17-2021	ASI #39 - REVISED PER CITY COMMENTS	

SANITARY PLAN AND PROFILE
 STATION 46+00 TO 58+00

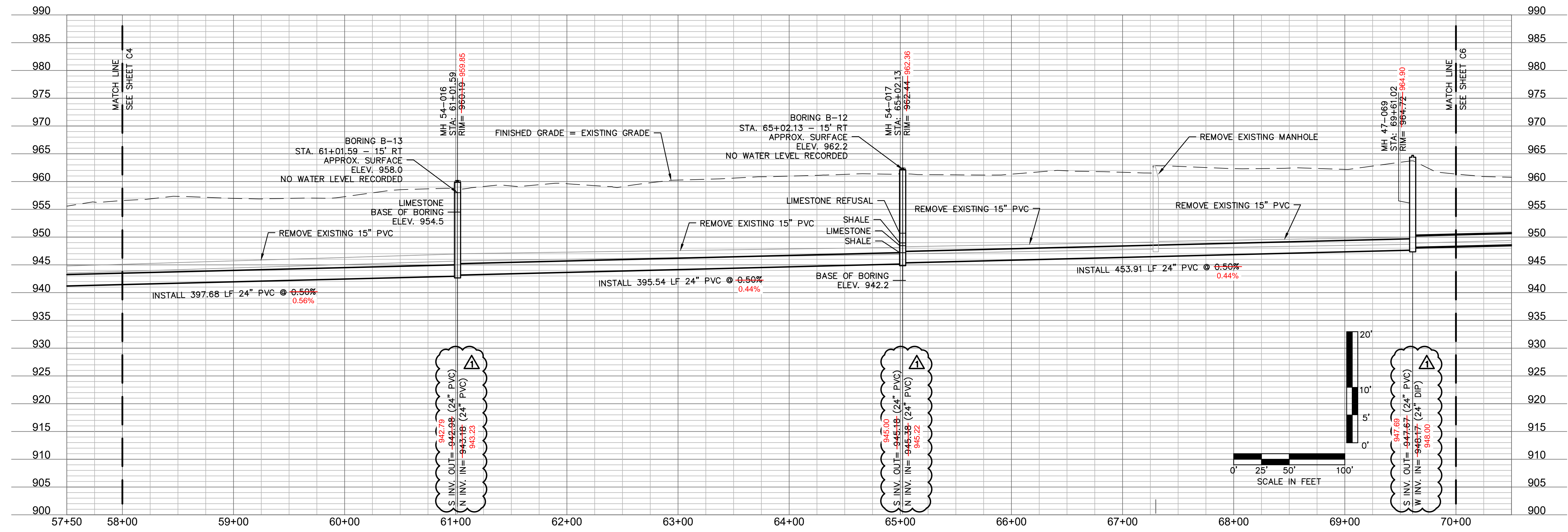
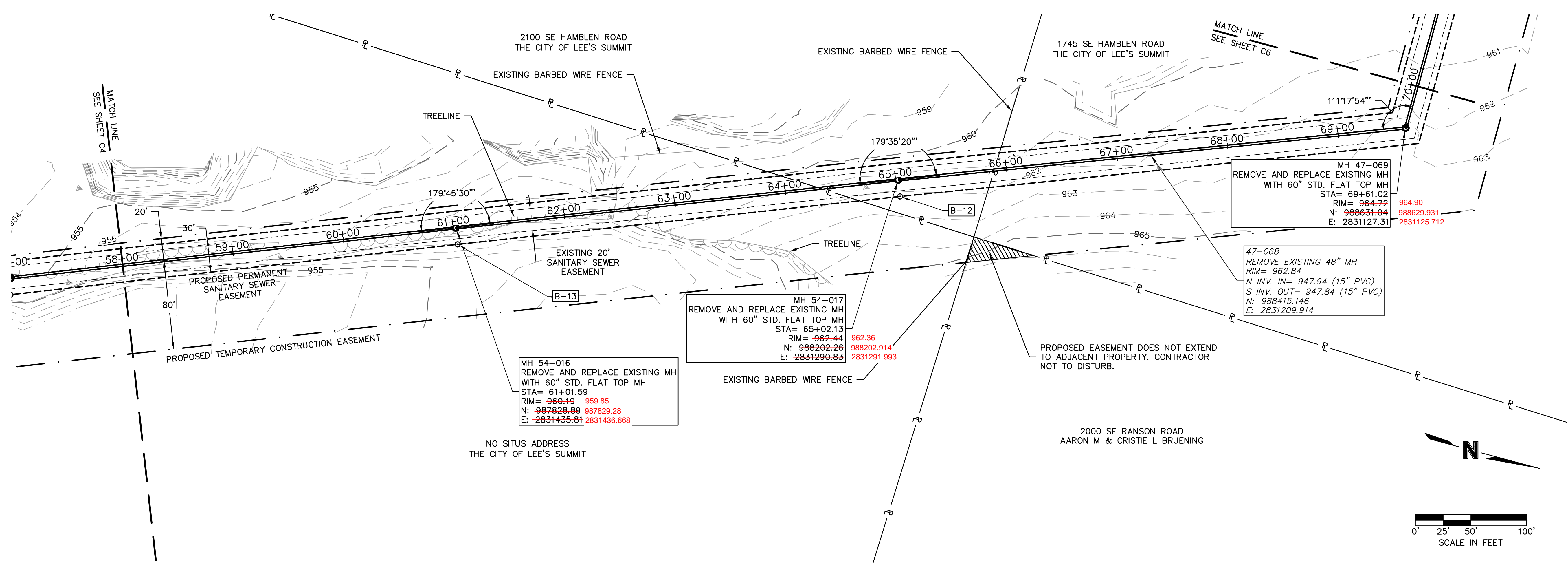
BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4

2021

LEE'S SUMMIT, MO

drawn by: NG
 checked by: BH
 approved by: BH
 QA/QC by: JS
 project no.: 020-01030
 drawing no.:
 date: 07.15.2021

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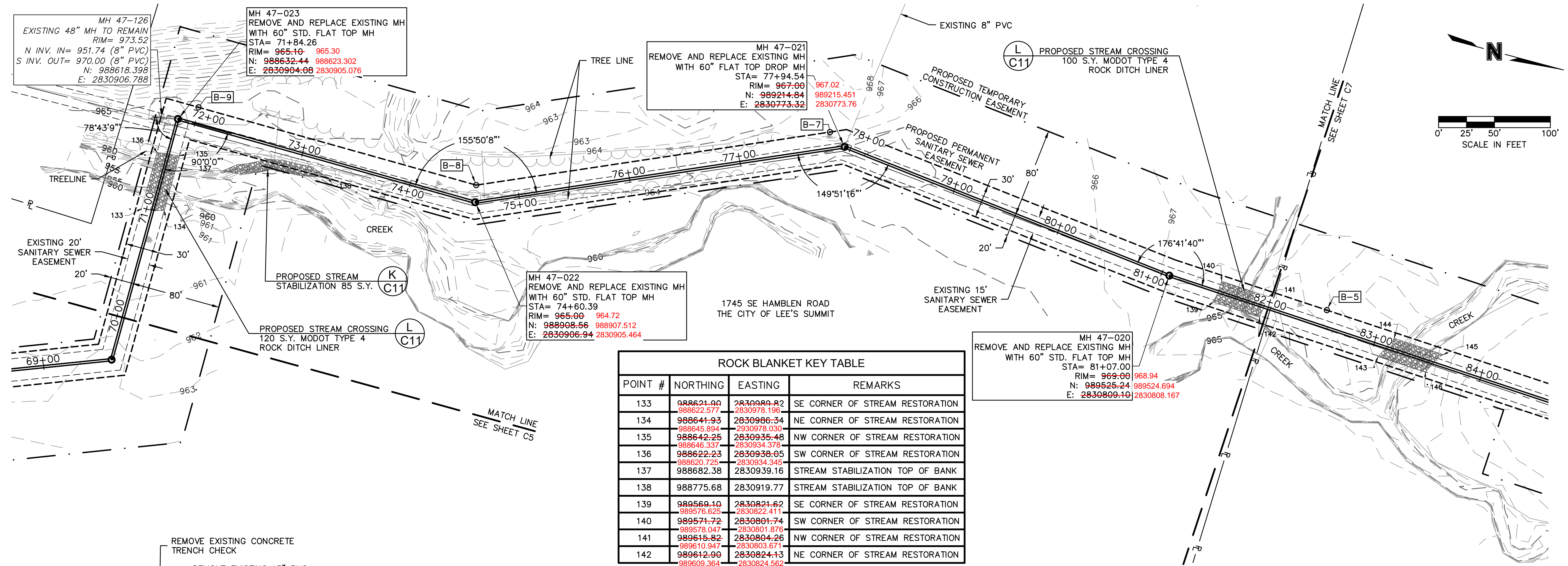
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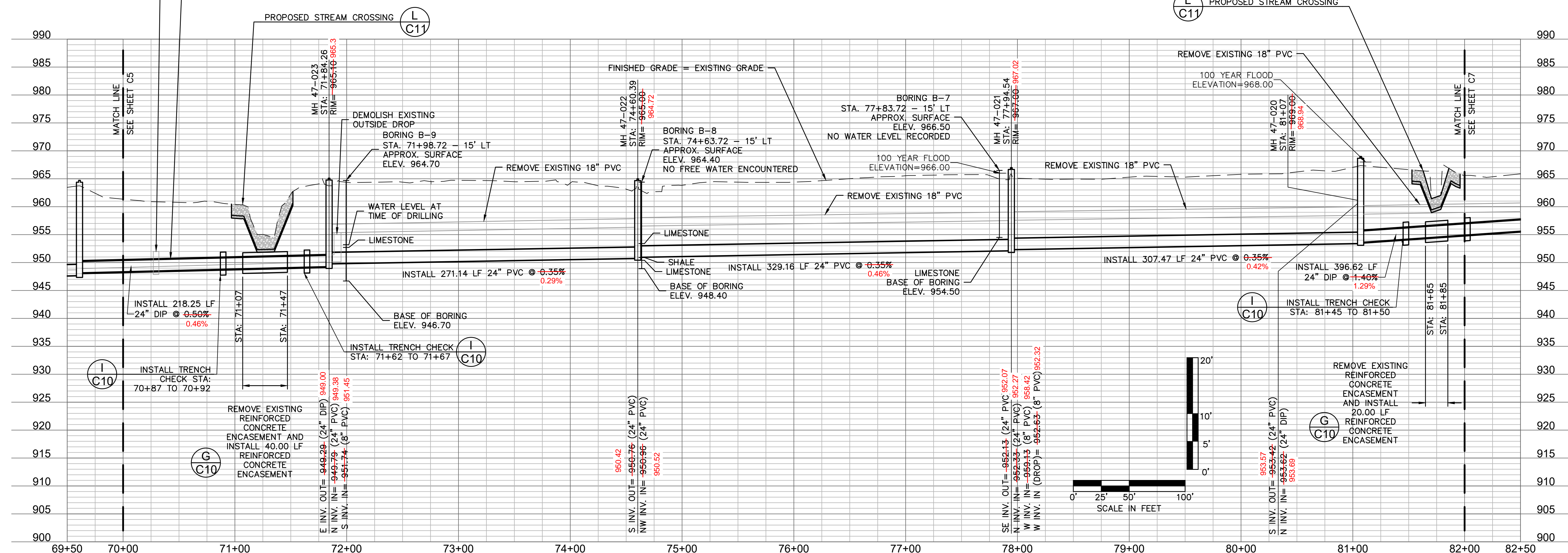
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SANITARY PLAN AND PROFILE		2021
STATION 58+00 TO 70+00		
BIG CREEK INTERCEPTOR SEWER UPSIZING		
LEE'S SUMMIT MIDDLE SCHOOL #4		
LEE'S SUMMIT, MO		
drawn by:	NG	
checked by:	BH	
approved by:	BH	
QA/QC by:	JS	
project no.:	020-01030	
drawing no.:		
date:	07.15.2021	

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POINT #	NORTHING	EASTING	REMARKS
133	988621.90 988622.577	2830089.82 2830078.196	SE CORNER OF STREAM RESTORATION
134	988641.93 988645.894	2830986.34 2830978.030	NE CORNER OF STREAM RESTORATION
135	988642.25 988646.337	2830935.48 2830934.378	NW CORNER OF STREAM RESTORATION
136	988622.23 988620.725	2830938.05 2830934.345	SW CORNER OF STREAM RESTORATION
137	988682.38	2830939.16	STREAM STABILIZATION TOP OF BANK
138	988775.68	2830919.77	STREAM STABILIZATION TOP OF BANK
139	988569.10 988576.625	2830821.62 2830822.411	SE CORNER OF STREAM RESTORATION
140	988571.72 988578.047	2830801.74 2830818.076	SW CORNER OF STREAM RESTORATION
141	988615.82 988610.947	2830804.26 2830803.671	NW CORNER OF STREAM RESTORATION
142	988612.90 988609.364	2830824.13 2830824.562	NE CORNER OF STREAM RESTORATION



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SANITARY PLAN AND PROFILE
 STATION 70+00 TO 82+00

BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4

2021

drawn by: NG

checked by: BH

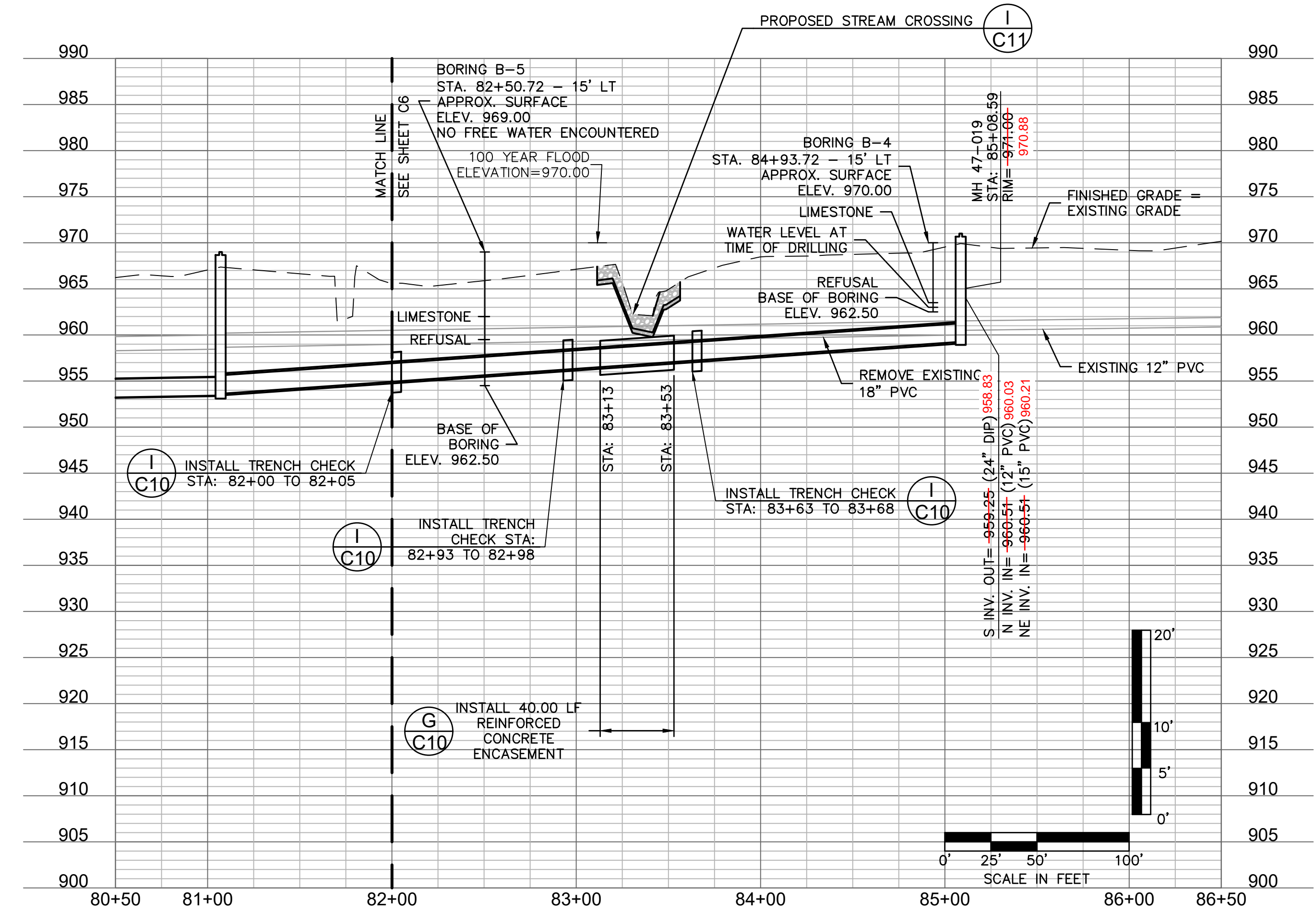
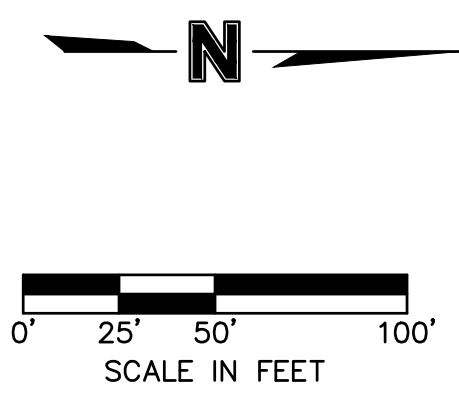
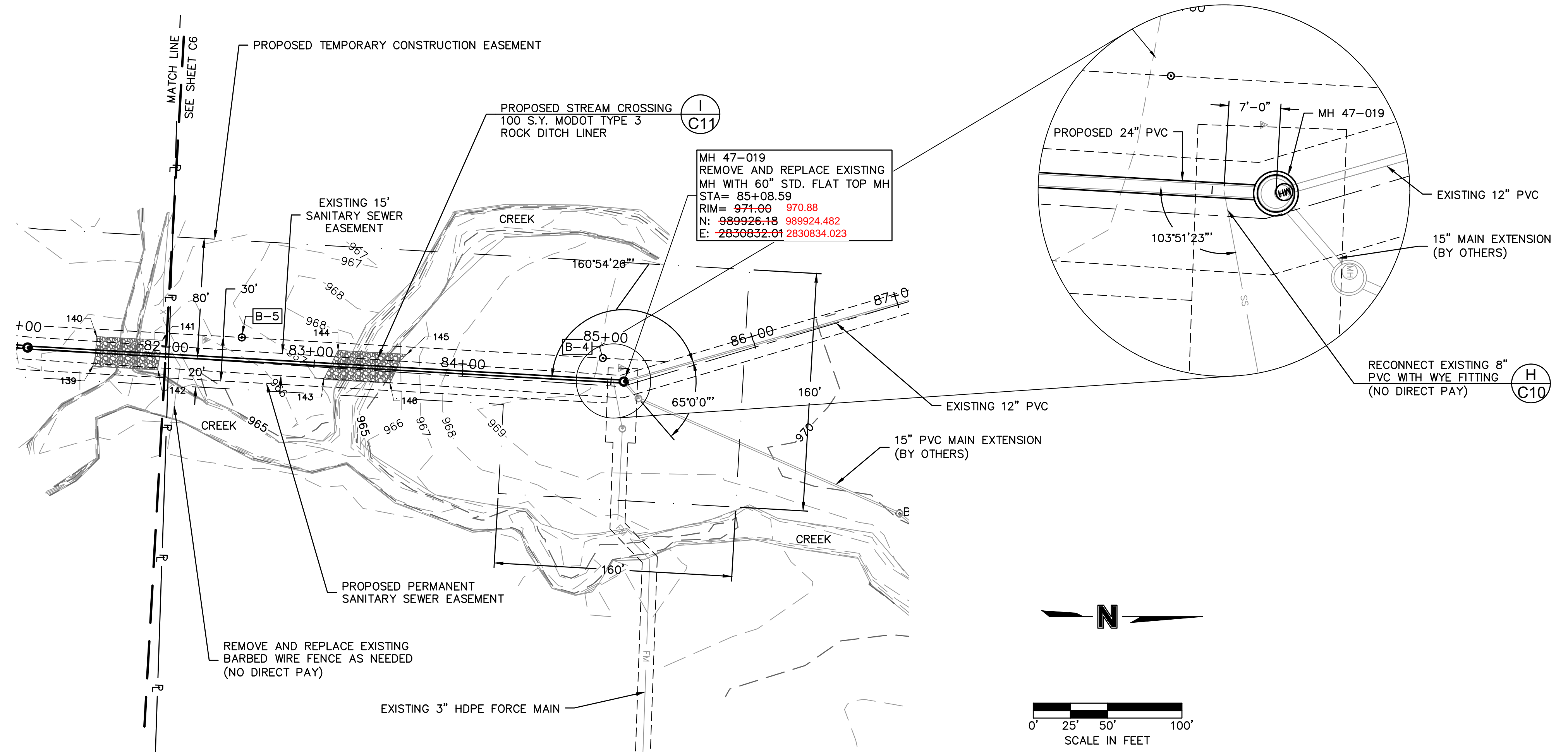
approved by: BH

QA/QC by: JS

project no.: 020-01030

drawing no.: SHEET C6

date: 07.15.2021



POINT #	NORTHING	EASTING	REMARKS
143	989724.38 989721.320	2830830.50 2830831.838	SE CORNER OF STREAM RESTORATION
144	989734.03 989728.684	2830811.01 2830810.128	SW CORNER OF STREAM RESTORATION
145	989780.23 989769.988	2830813.65 2830819.573	NW CORNER OF STREAM RESTORATION
146	989768.87 989764.453	2830833.04 2830839.959	NE CORNER OF STREAM RESTORATION

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SANITARY PLAN AND PROFILE

STATION 82+00 TO 85+08.59

BIG CREEK INTERCEPTOR SEWER UPSIZING

LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT, MO

2021

REVISIONS

drawn by: _____ NG

checked by: _____ BH

approved by: _____ BH

QA/QC by: _____ JS

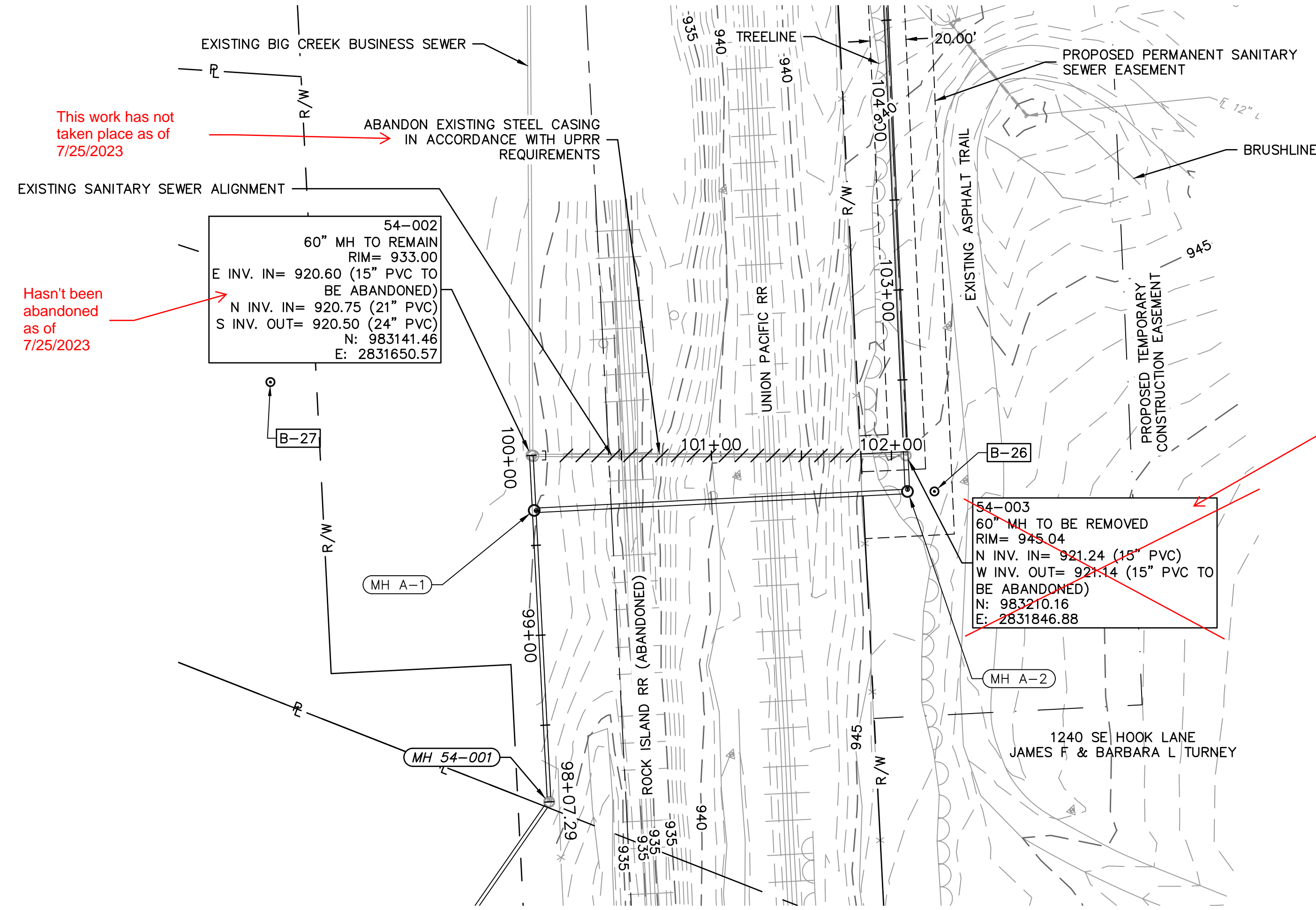
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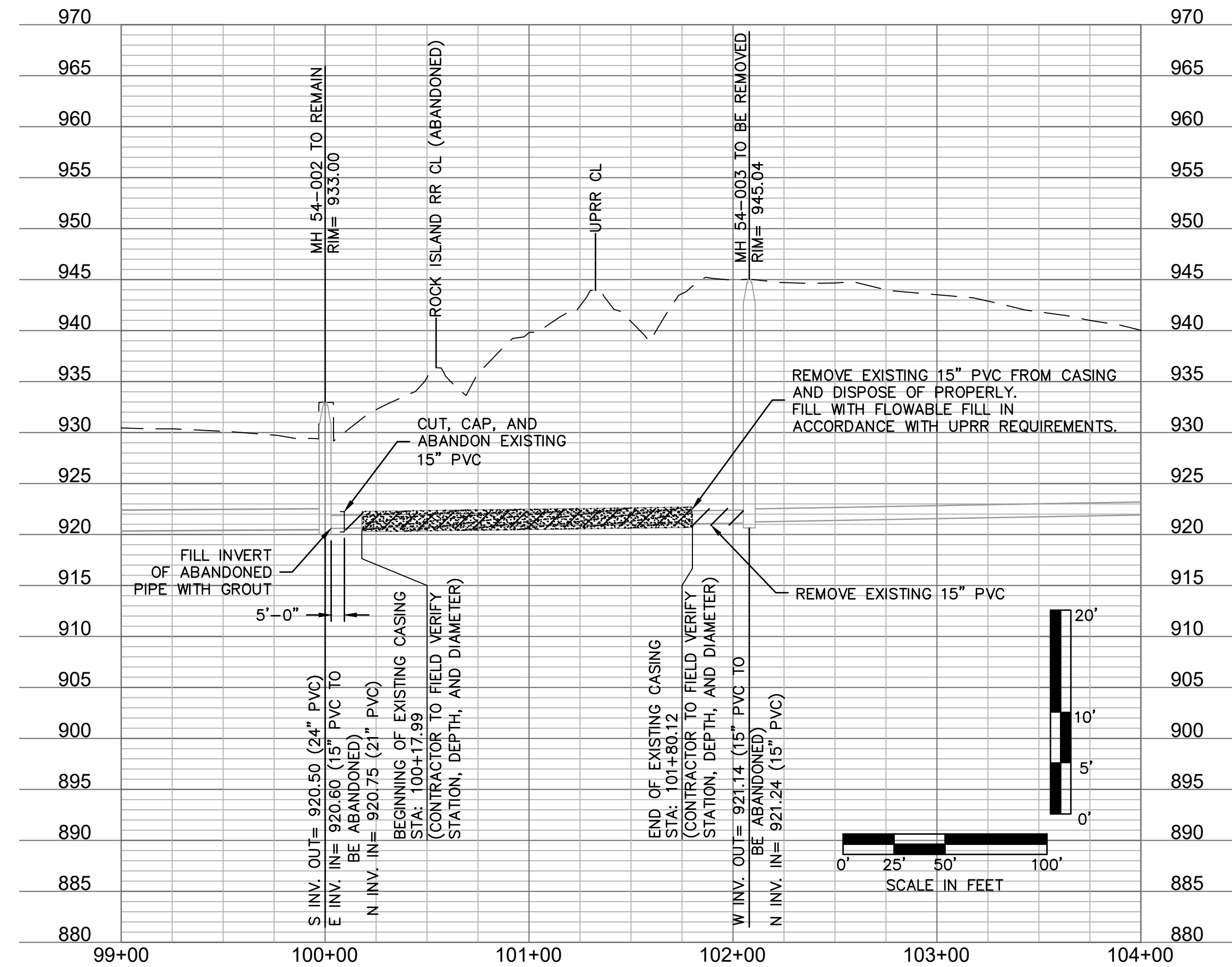


This work has not taken place as of 7/25/2023

Hasn't been abandoned as of 7/25/2023

Manhole has been removed but restoration and abandonment of railroad crossing has not taken place as of 7/25/2023

NOTES:
 SEE GENERAL NOTE 32 PRIOR TO PERFORMING ANY WORK ASSOCIATED WITH THE PENDING UNION PACIFIC UTILITY CROSSING PERMIT.



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CASING ABANDONMENT

BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4

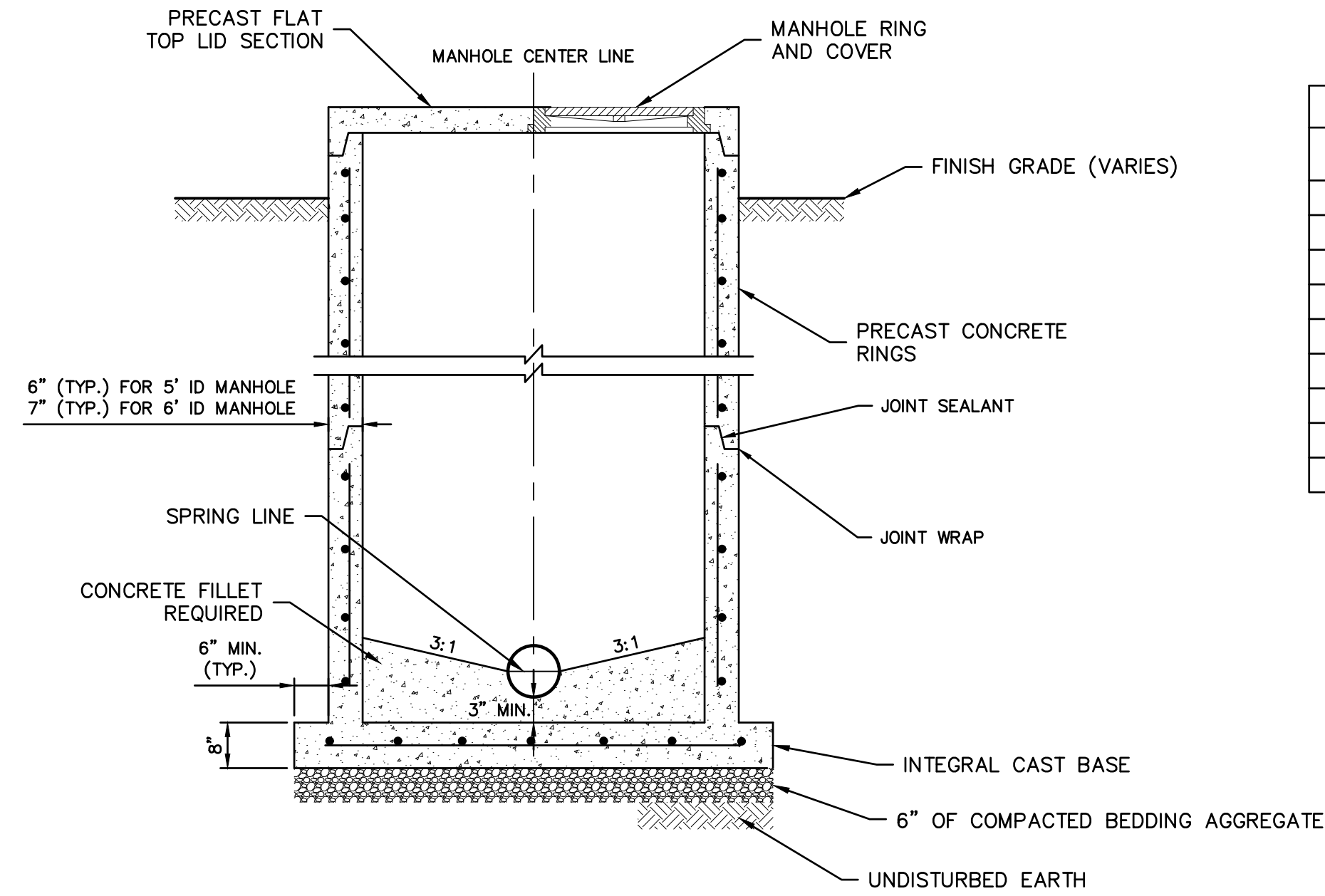
2021

LEE'S SUMMIT, MO

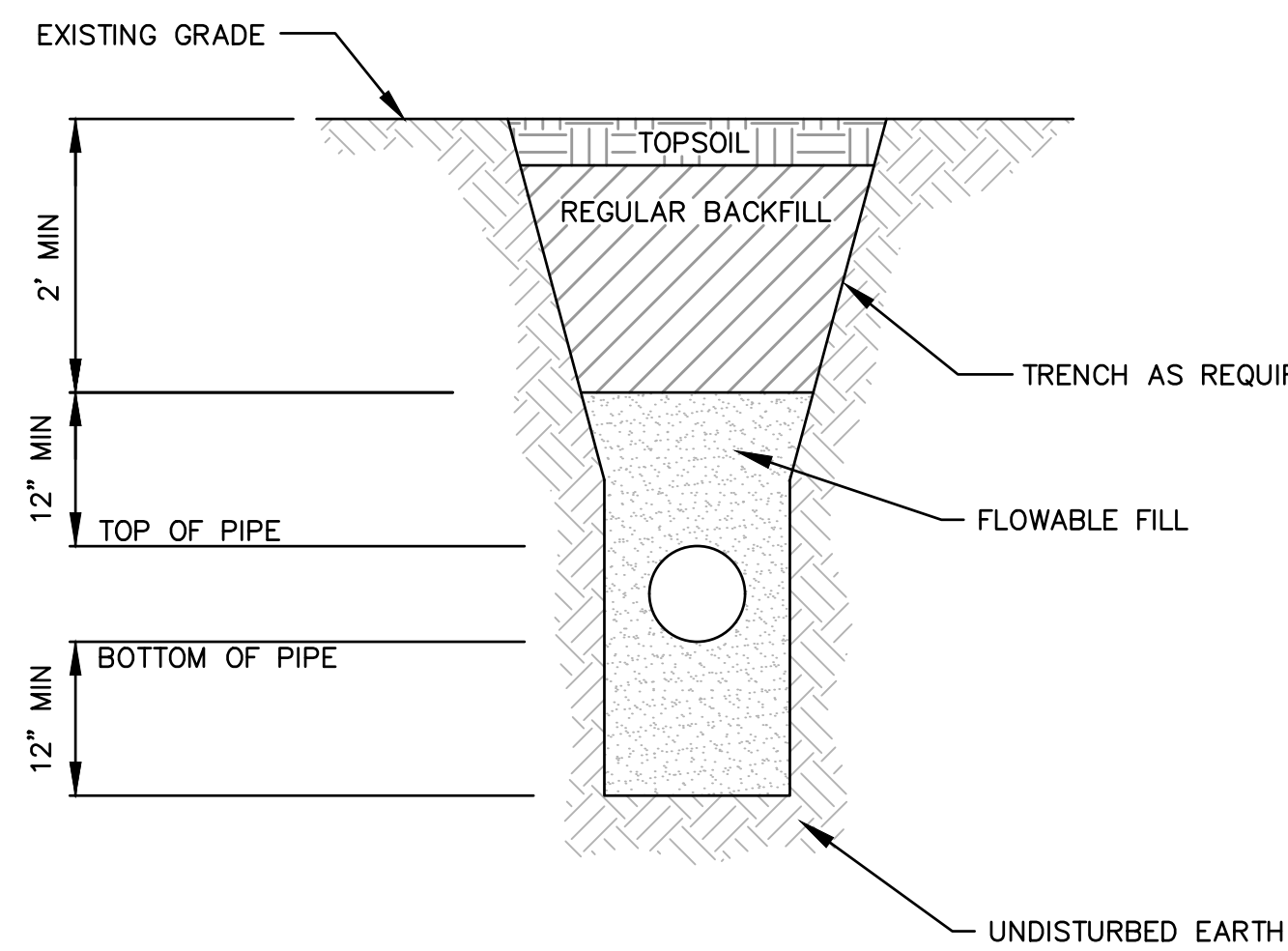
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drawing no.:		
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SHEET
C8

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 DATE: Dec 17, 2021 3:32pm
 USER: ngrhoff

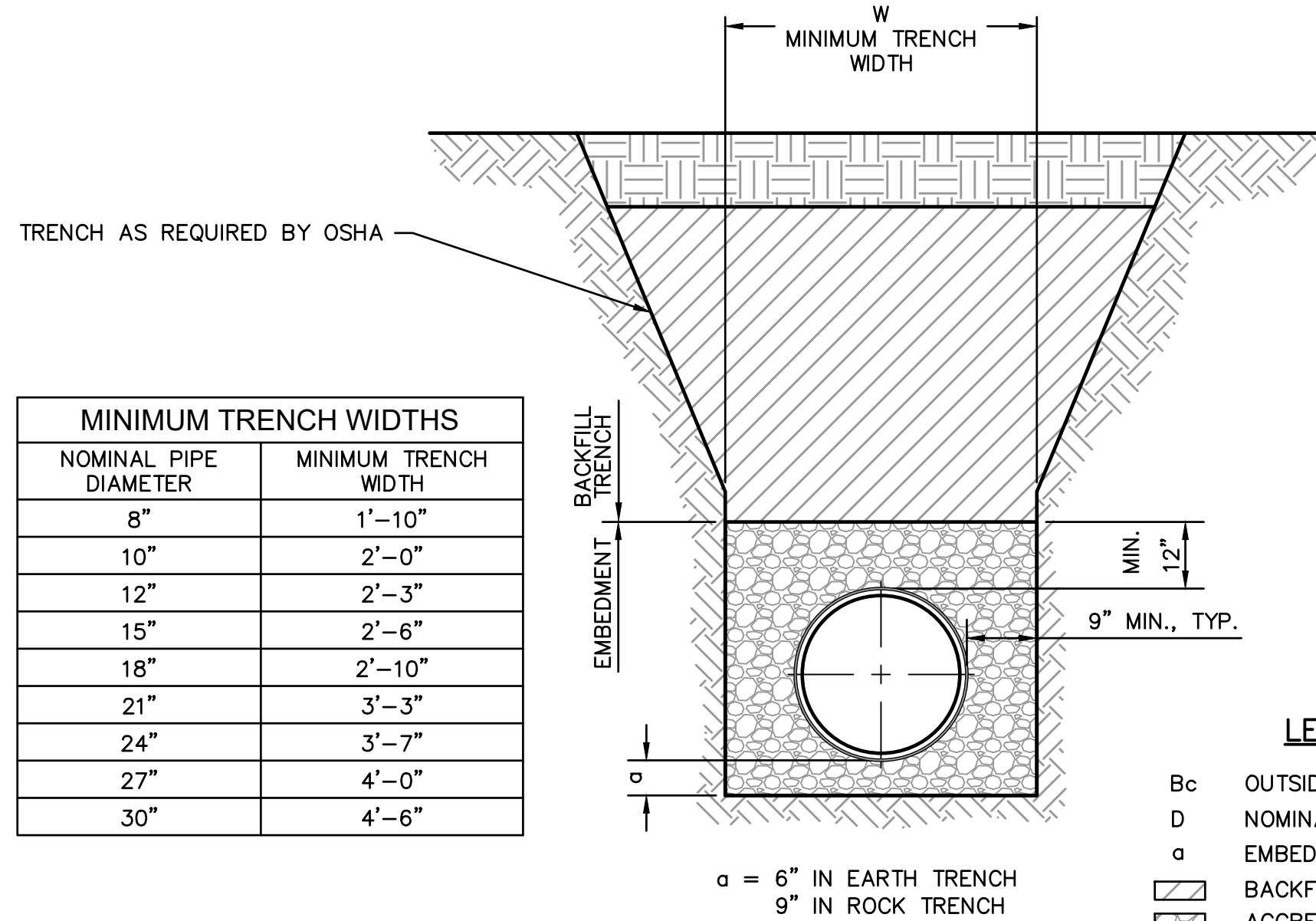


STANDARD FLAT TOP MANHOLE DETAIL (D)
 SCALE: NOT TO SCALE

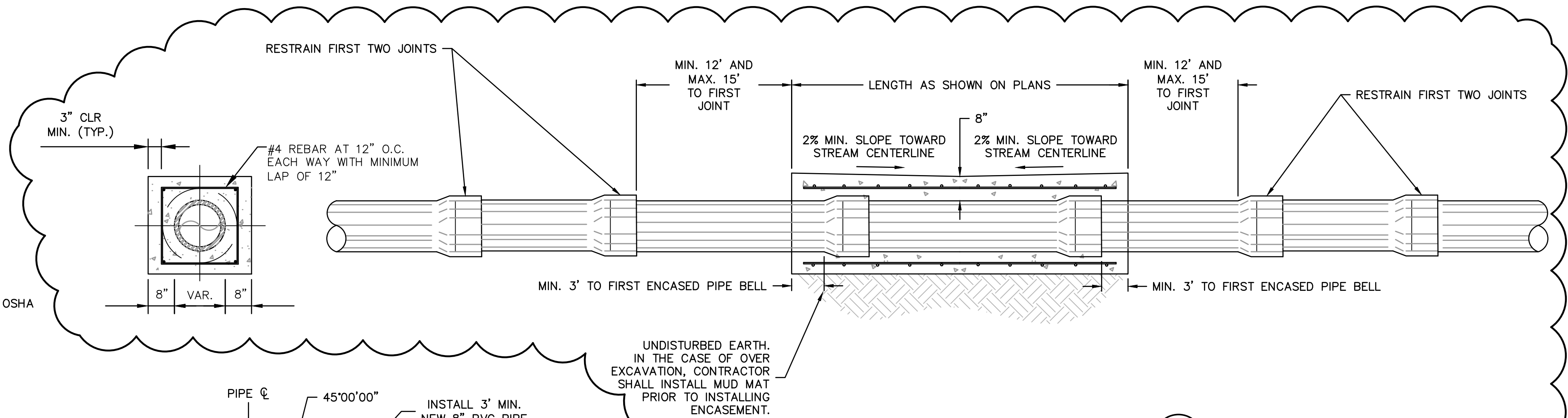


IMPERVIOUS TRENCH CHECK DETAIL (I)
 SCALE: NOT TO SCALE

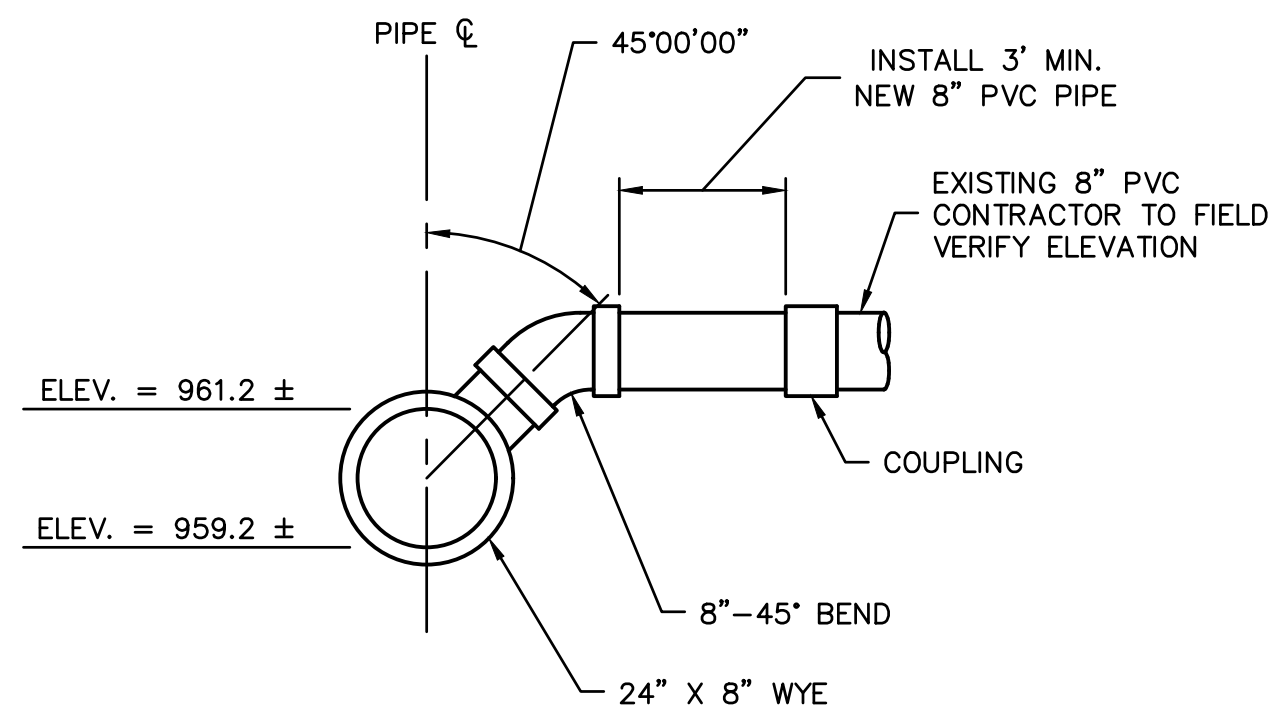
NOMINAL PIPE DIAMETER	MINIMUM TRENCH WIDTH
8"	1'-10"
10"	2'-0"
12"	2'-3"
15"	2'-6"
18"	2'-10"
21"	3'-3"
24"	3'-7"
27"	4'-0"
30"	4'-6"



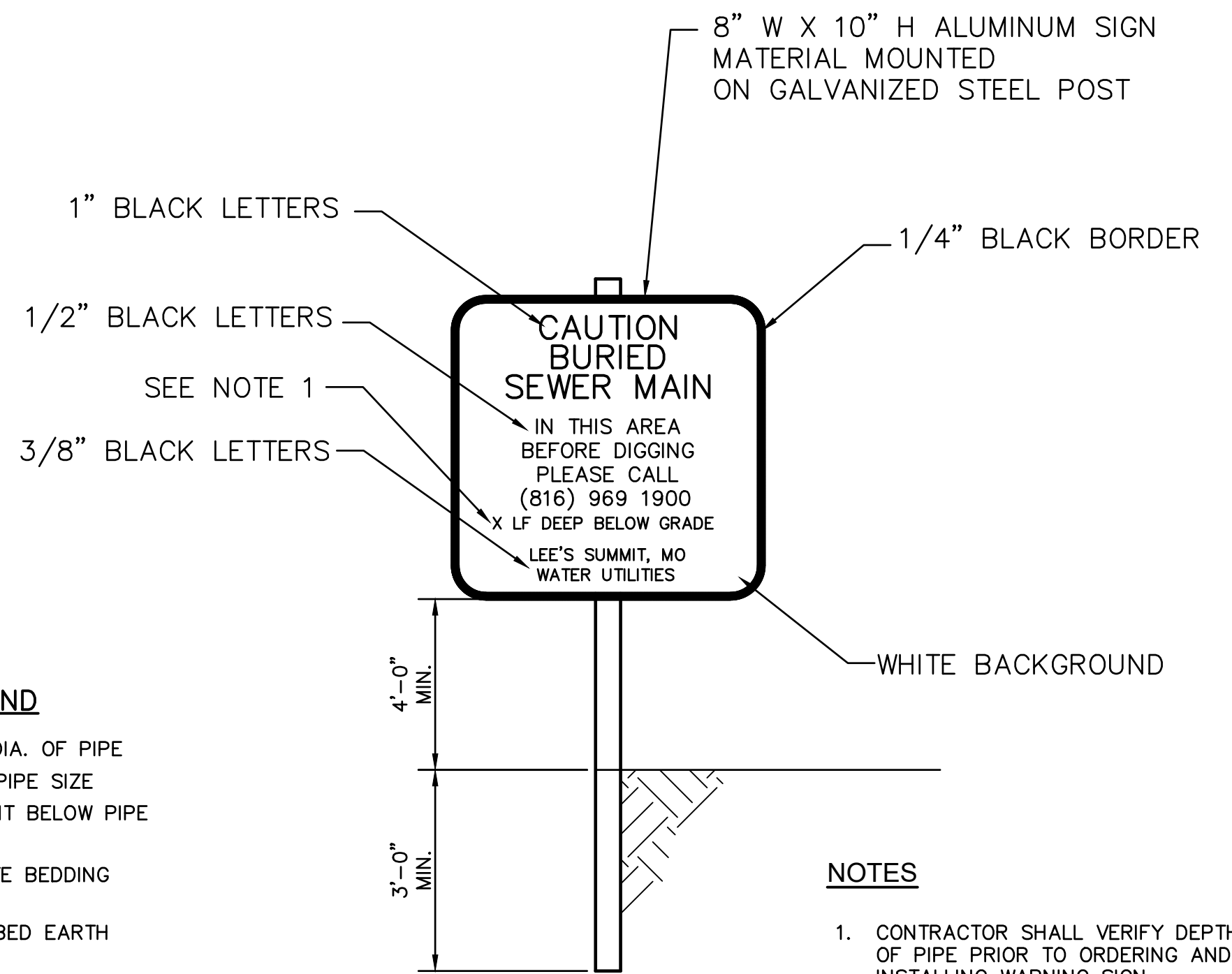
TYPICAL PIPE EMBEDMENT DETAIL (E)
 SCALE: NOT TO SCALE



REINFORCED CONCRETE ENCASEMENT DETAIL (G)
 SCALE: NOT TO SCALE



TEE FITTING CONNECTION DETAIL (H)
 SCALE: NOT TO SCALE



RAILROAD WARNING SIGNS DETAIL (F)
 SCALE: NOT TO SCALE

NOTES
 1. CONTRACTOR SHALL VERIFY DEPTH TO TOP OF PIPE PRIOR TO ORDERING AND INSTALLING WARNING SIGN.

NOTES:
 SEE GENERAL NOTE 32 PRIOR TO PERFORMING ANY WORK ASSOCIATED WITH THE PENDING UNION PACIFIC UTILITY CROSSING PERMIT.

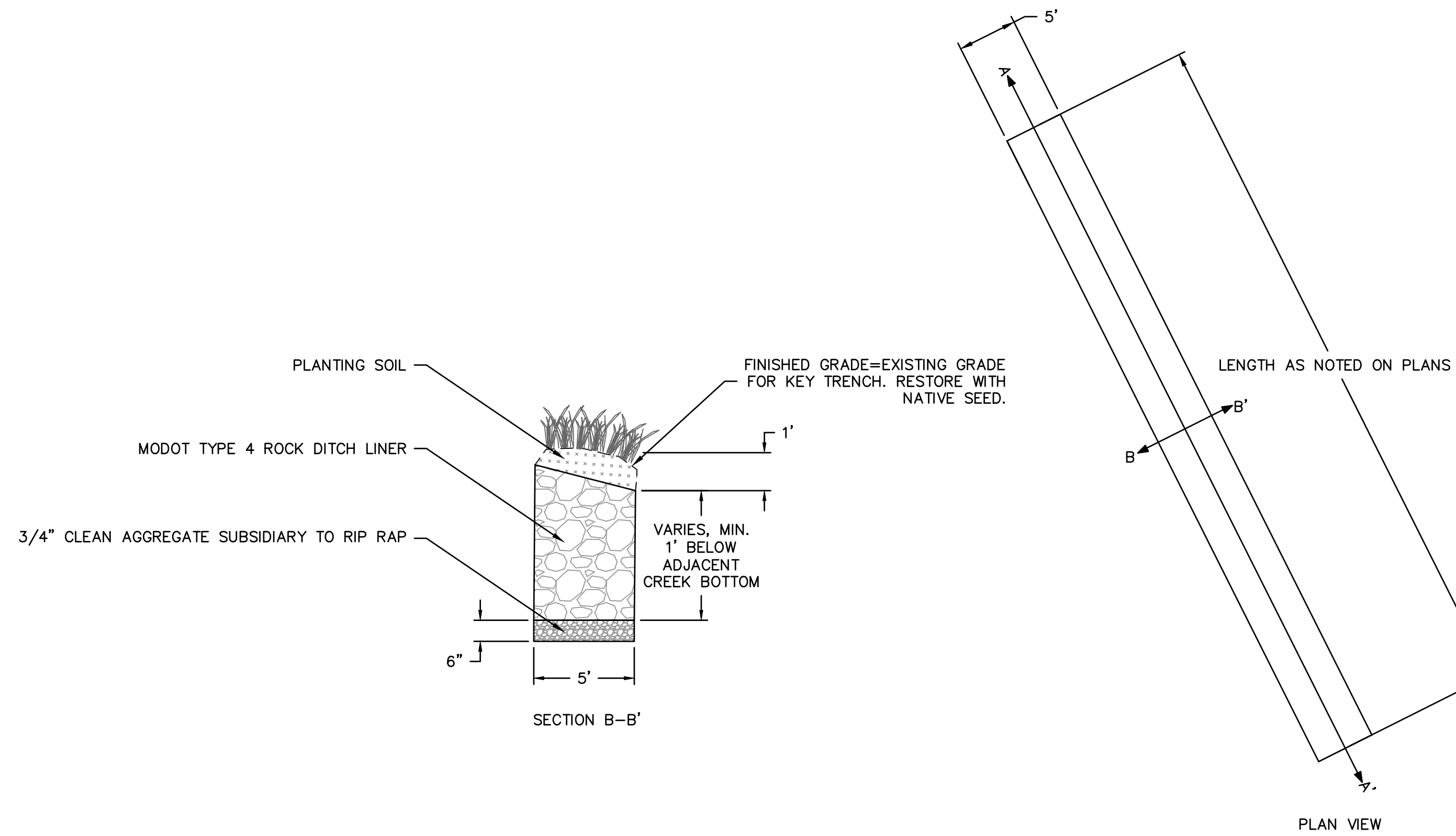
AS-BUILTS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	8-25-2021	ASI #29 - REVISED PER CITY COMMENTS
2	10-14-2021	REVISED FOR MDR SUBMITTAL
3	12-9-2021	ASI #39 - REVISED PER RFT 341
4	12-17-2021	ASI #39 - REVISED PER CITY COMMENTS

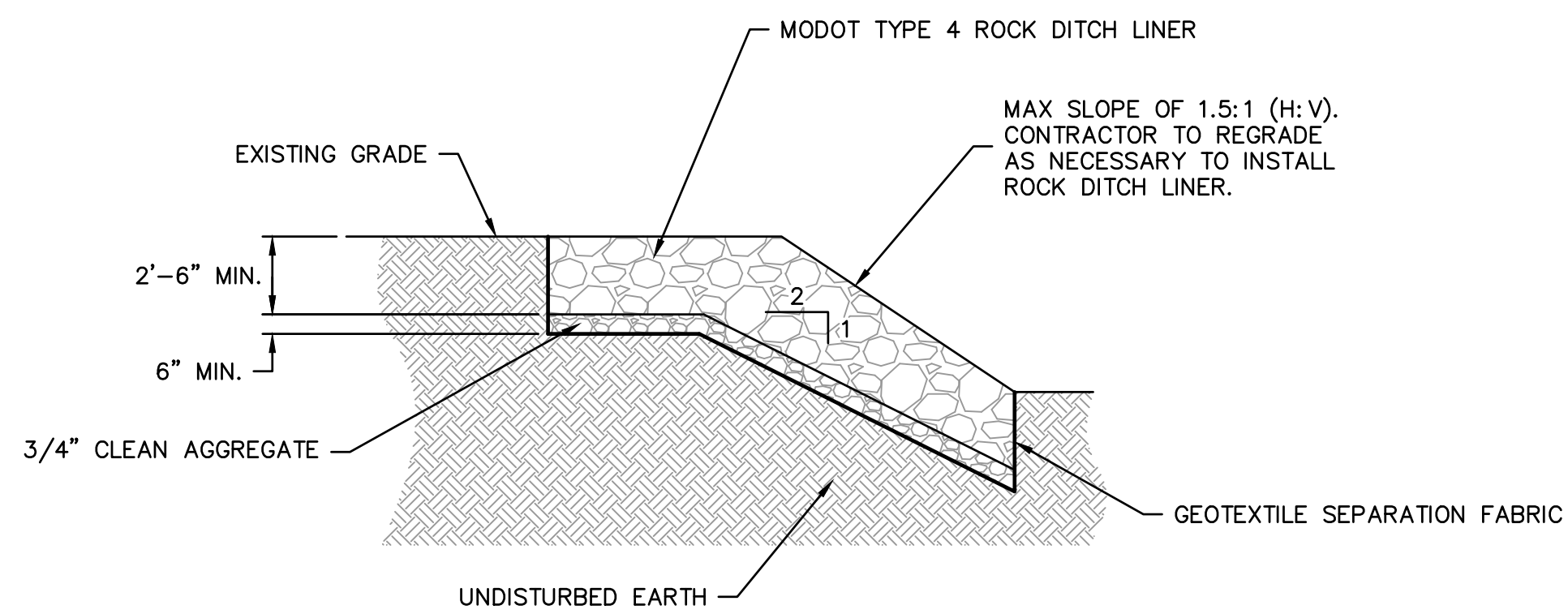
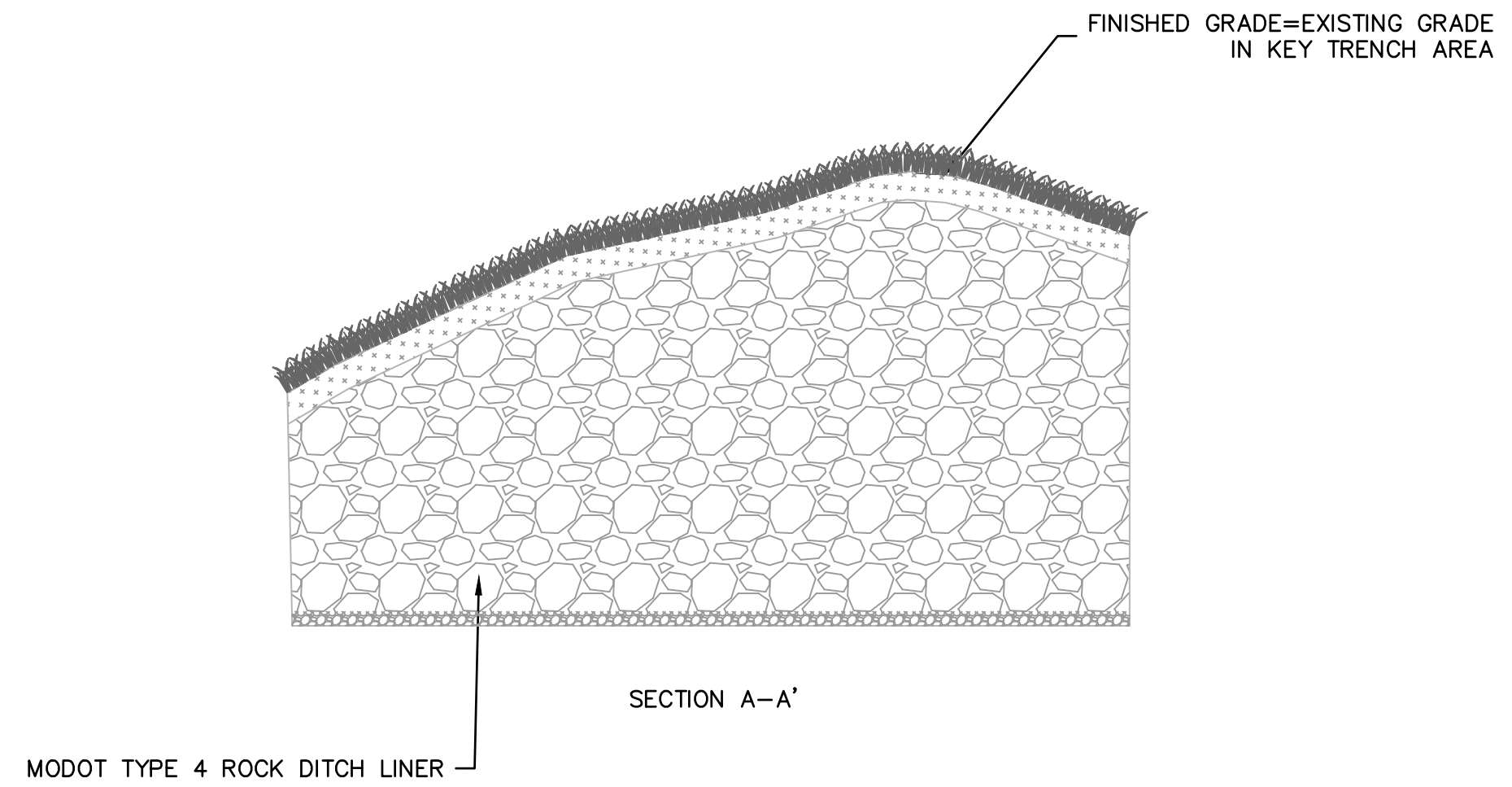
STANDARD DETAILS
 BIG CREEK INTERCEPTOR SEWER UPSIZING
 LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT, MO
 2021

drawn by: NG
 checked by: BH
 approved by: BH
 QA/QC by: JS
 project no.: 020-01030
 drawing no.:
 date: 07.15.2021

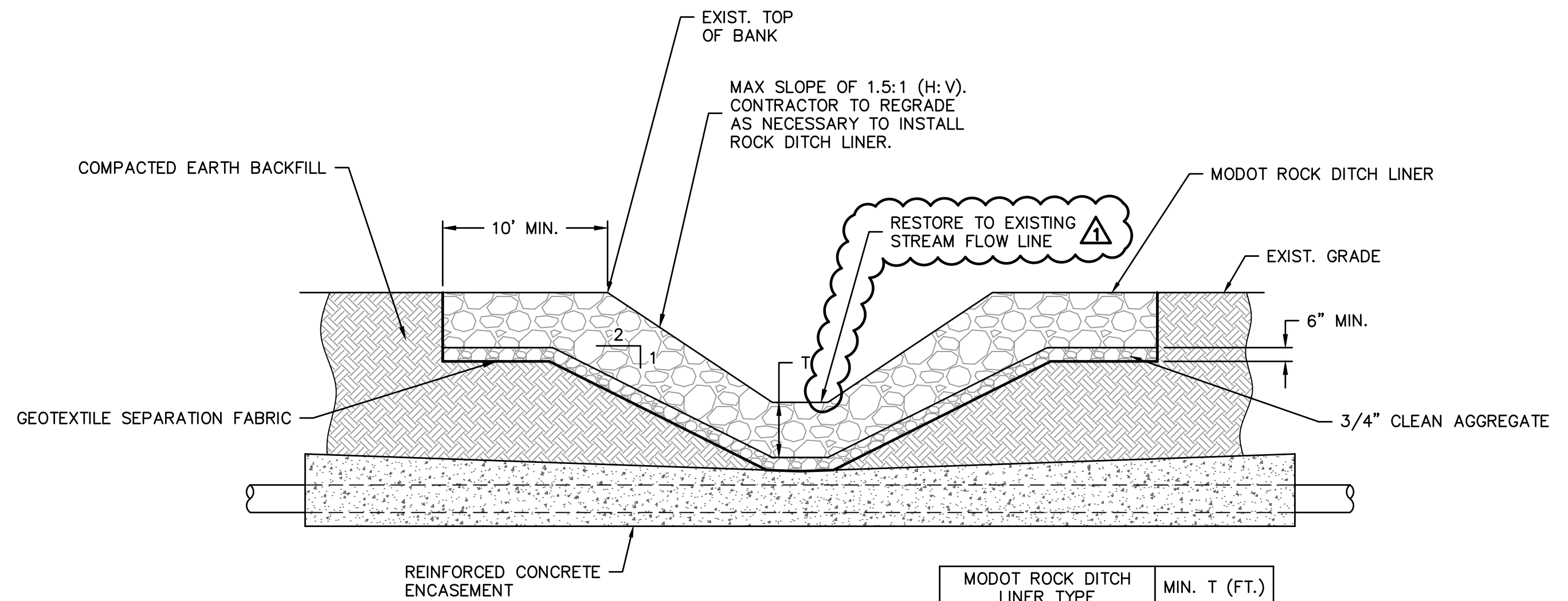
DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Streets\WTWP_P_DTL_0200103.dwg
 DATE: Dec 17, 2021 3:32pm
 USER: ngrhoff



UPSTREAM KEY TRENCH DETAIL J
 SCALE: NOT TO SCALE



STREAM STABILIZATION DETAIL K
 SCALE: NOT TO SCALE



MODOT ROCK DITCH LINER TYPE	MIN. T (FT.)
3	1.5
4	2.0

STREAM CHANNEL CROSSING DETAIL L
 SCALE: NOT TO SCALE

olsson

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 Missouri Certificate of Authority # 001592
 1301 Burlington Street
 North Kansas City, MO 64116
 TEL 816.361.1177
 www.olson.com

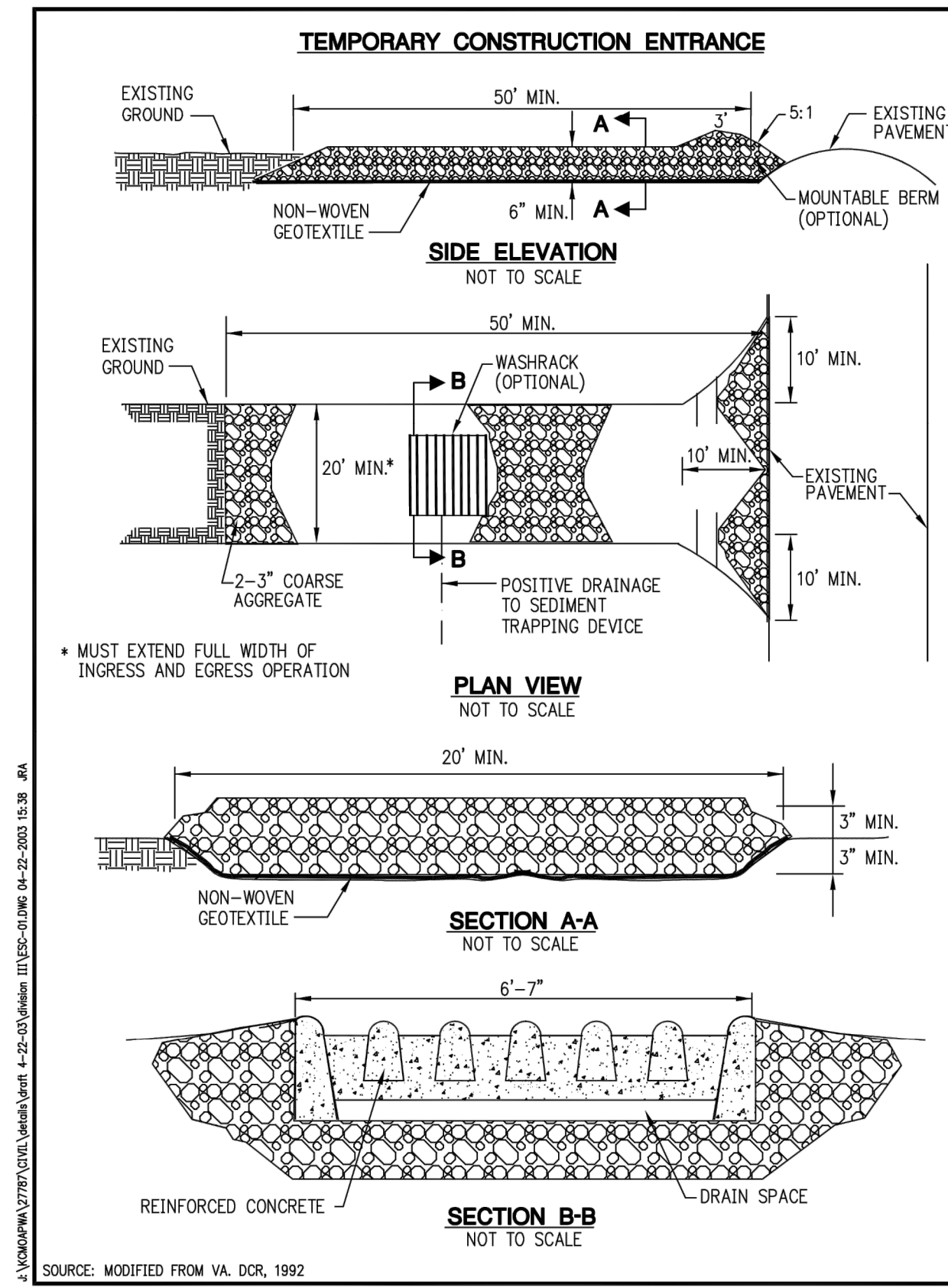
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STANDARD DETAILS	2021
BIG CREEK INTERCEPTOR SEWER UP-sizing LEE'S SUMMIT MIDDLE SCHOOL #4	
LEE'S SUMMIT, MO	

drawn by: NG
 checked by: BH
 approved by: BH
 QA/QC by: JS
 project no.: 020-01030
 drawing no.:
 date: 07.15.2021

SHEET
 C11



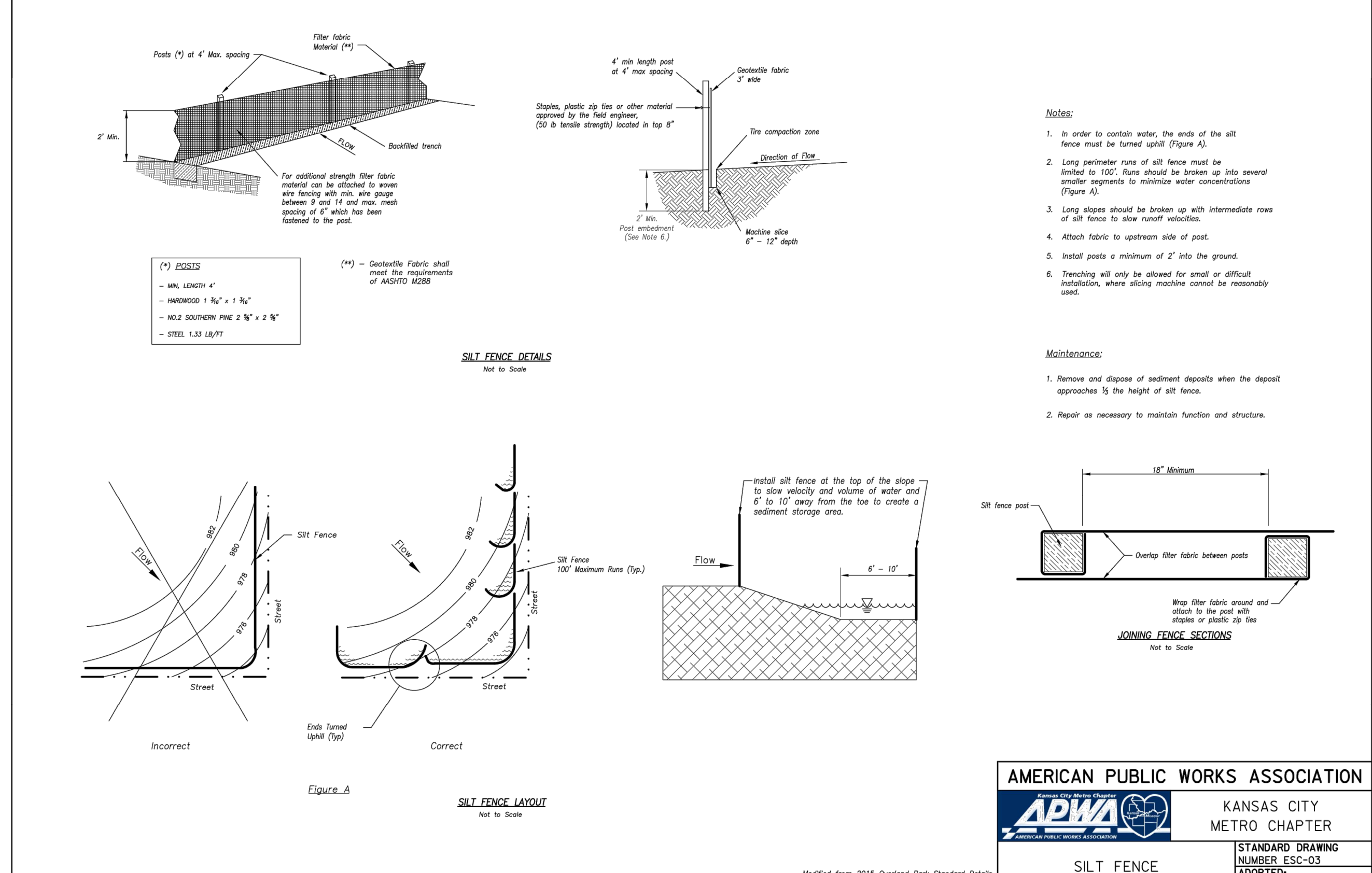
TEMPORARY CONSTRUCTION ENTRANCE PAD NOTES:

- A) INSTALLATION:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2%, CONSTRUCT A 6-TO 8-INCH HIGH RIDGE WITH 3H:1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
 4. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.
 5. PLACE STONE TO DIMENSIONS AND GRADE AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
 6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.
 7. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

- B) TROUBLESHOOTING:**
1. CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
 - a. INADEQUATE RUNOFF CONTROL TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROAD - INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES.
 - b. SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC.
 - c. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

- C) INSPECTION AND MAINTENANCE:**
1. INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER 1/2-INCH OR GREATER STORM EVENTS.
 2. RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL.
 3. TOPDRESS WITH CLEAN 2-AND 3-INCH STONE AS NEEDED.
 4. IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
 5. REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED.

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METROPOLITAN CHAPTER
TEMPORARY CONSTRUCTION ENTRANCE	STANDARD DRAWING NUMBER ESC-01 ADOPTED:



AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

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EROSION CONTROL DETAILS	2021
BIG CREEK INTERCEPTOR SEWER UPSIZING LEE'S SUMMIT MIDDLE SCHOOL #4	2021
LEE'S SUMMIT, MO	2021