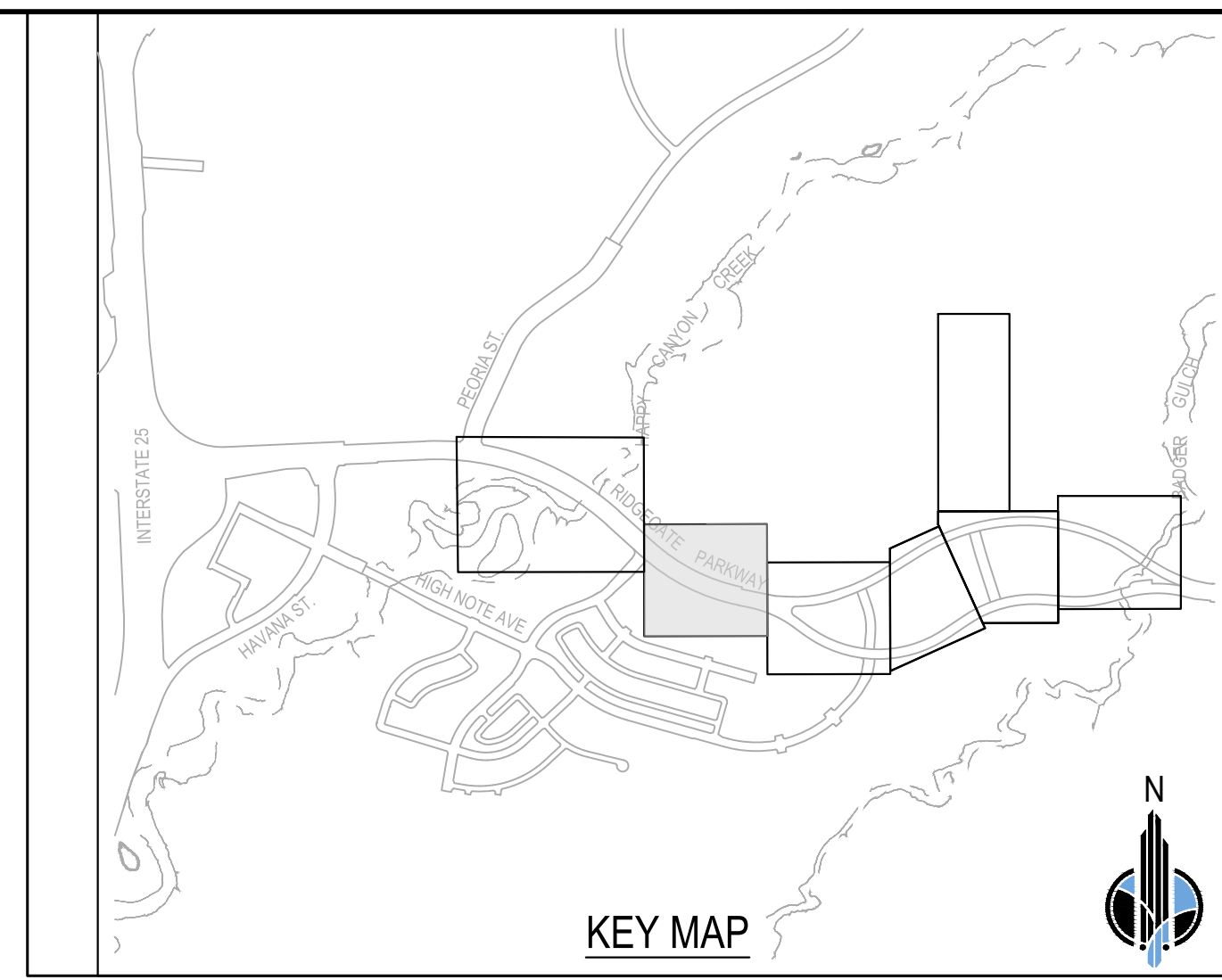
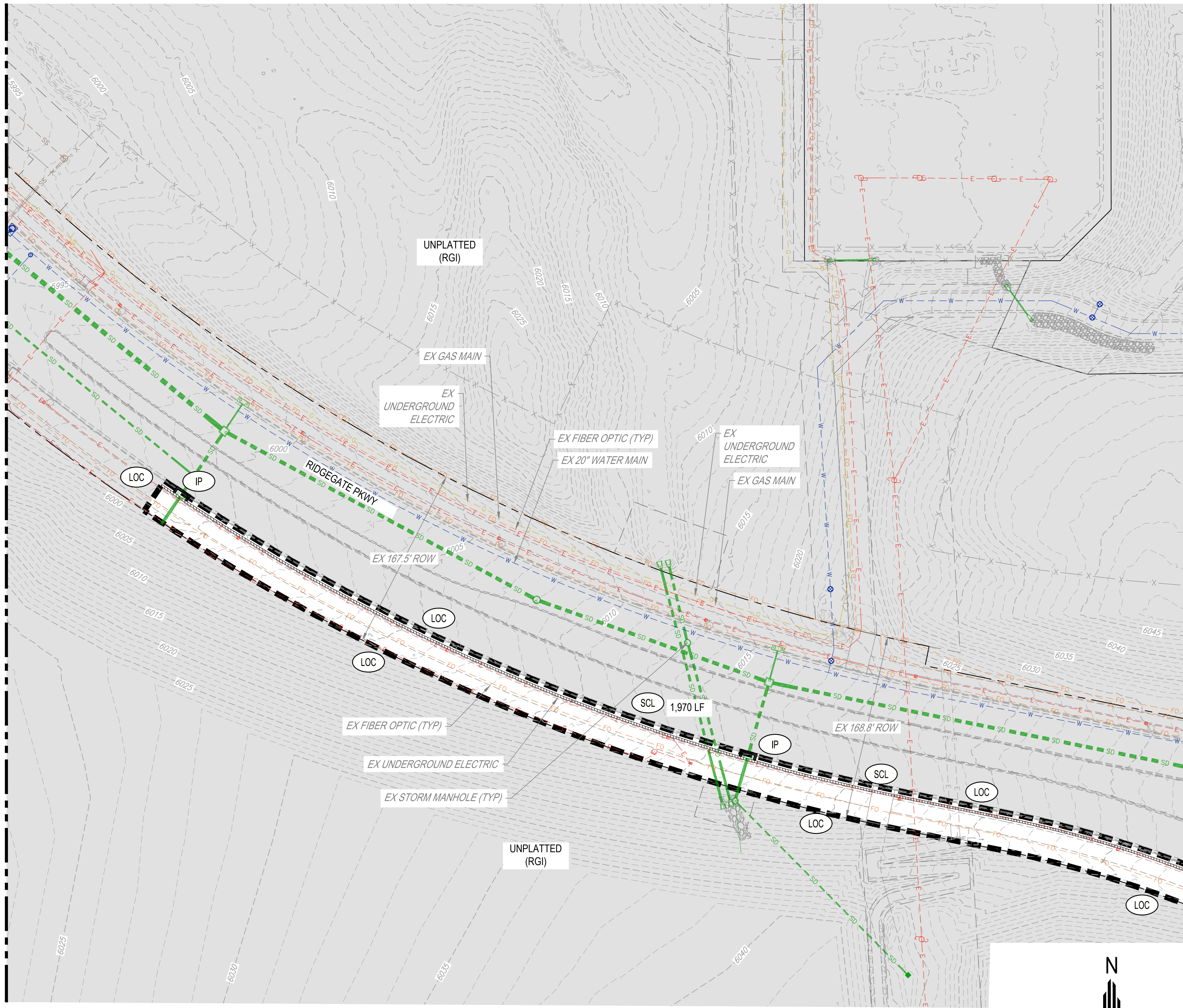


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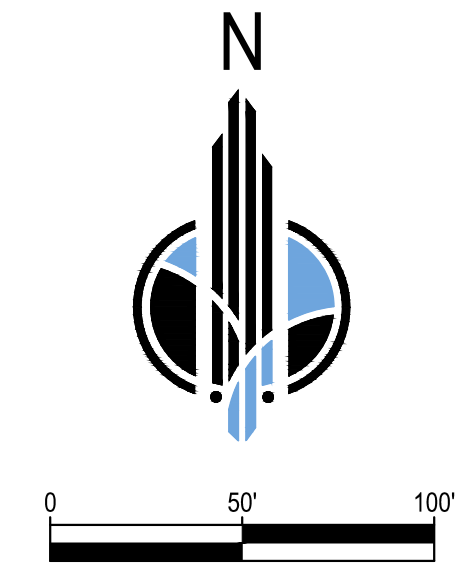
MATCHLINE SEE SHEET 3

MATCHLINE SEE SHEET 5



BMP LEGEND

- | | | | |
|-------|----------------------------|-------|---------------------------|
| (1-) | INITIAL BMP | (RS) | ROCK SOCK |
| (2-) | INTERIM BMP | (SB) | SEDIMENT BASIN |
| (3-) | FINAL BMP | (SCL) | SEDIMENT CONTROL LOG |
| (CD) | CHECK DAM | (ST) | SEDIMENT TRAP |
| (CB) | COMPOST BLANKET | (SM) | SEEDING AND MULCHING |
| (CFB) | COMPOST FILTER BERM | (SF) | SILT FENCE |
| (CWA) | CONCRETE WASHOUT AREA | (SSA) | STABILIZED STAGING AREA |
| (CF) | CONSTRUCTION FENCE | (SR) | SURFACE ROUGHENING |
| (CM) | CONSTRUCTION MARKER | (TSD) | TEMPORARY SLOPE DRAIN |
| (DW) | DEWATERING | (TSC) | TEMPORARY STREAM CROSSING |
| (DD) | DIVERSION DITCH | (TER) | TERRACING |
| (ECB) | EROSION CONTROL BLANKET | (VTC) | VEHICLE TRACKING CONTROL |
| (IP) | INLET PROTECTION | (WW) | VTC WITH WHEEL WASH |
| (RCD) | REINFORCED CHECK DAM | (LOC) | LIMITS OF CONSTRUCTION |
| (RRB) | REINFORCED ROCK BERM | (---) | CUT/FILL LIMITS |
| (RRC) | RRB FOR CULVERT PROTECTION | | |

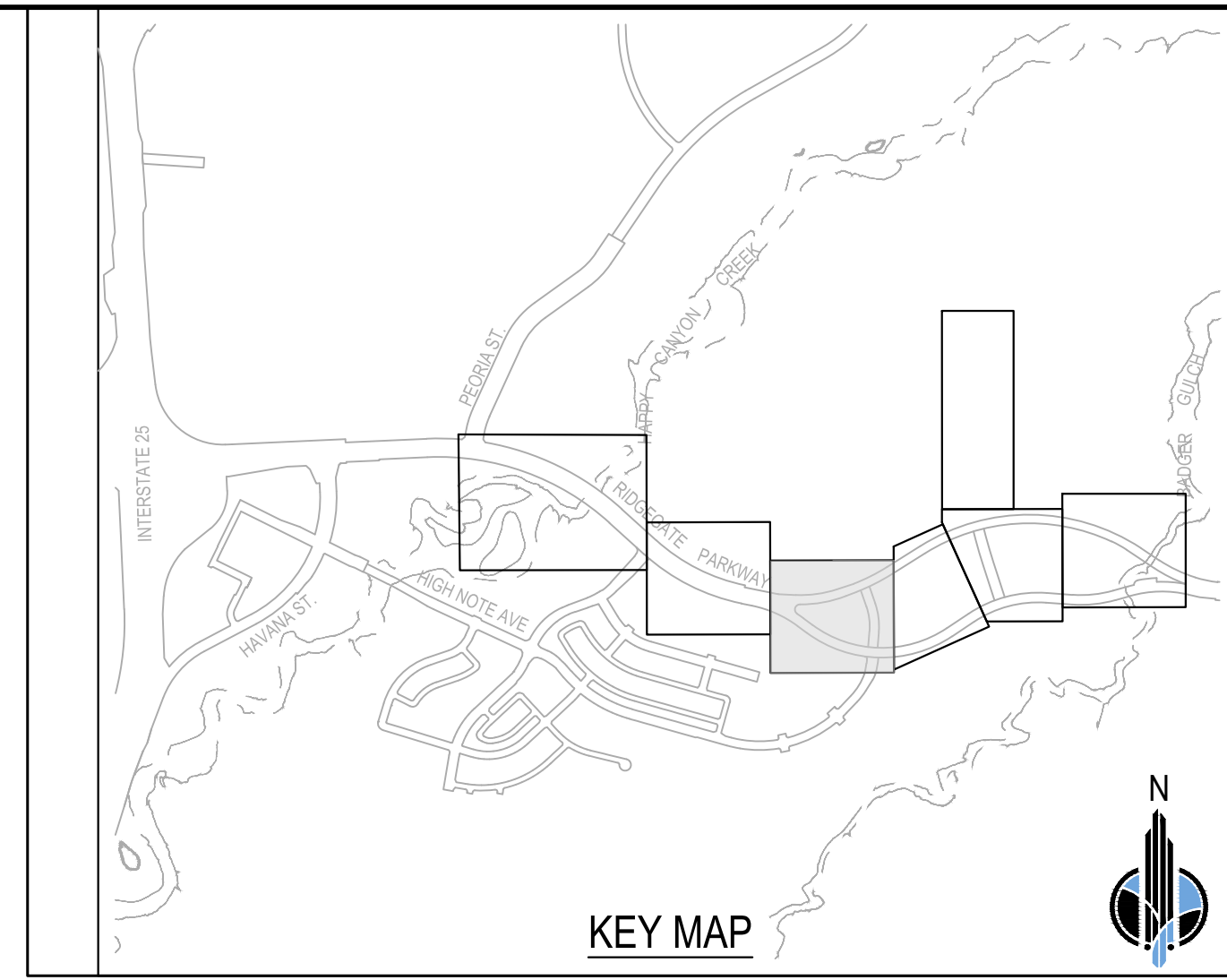
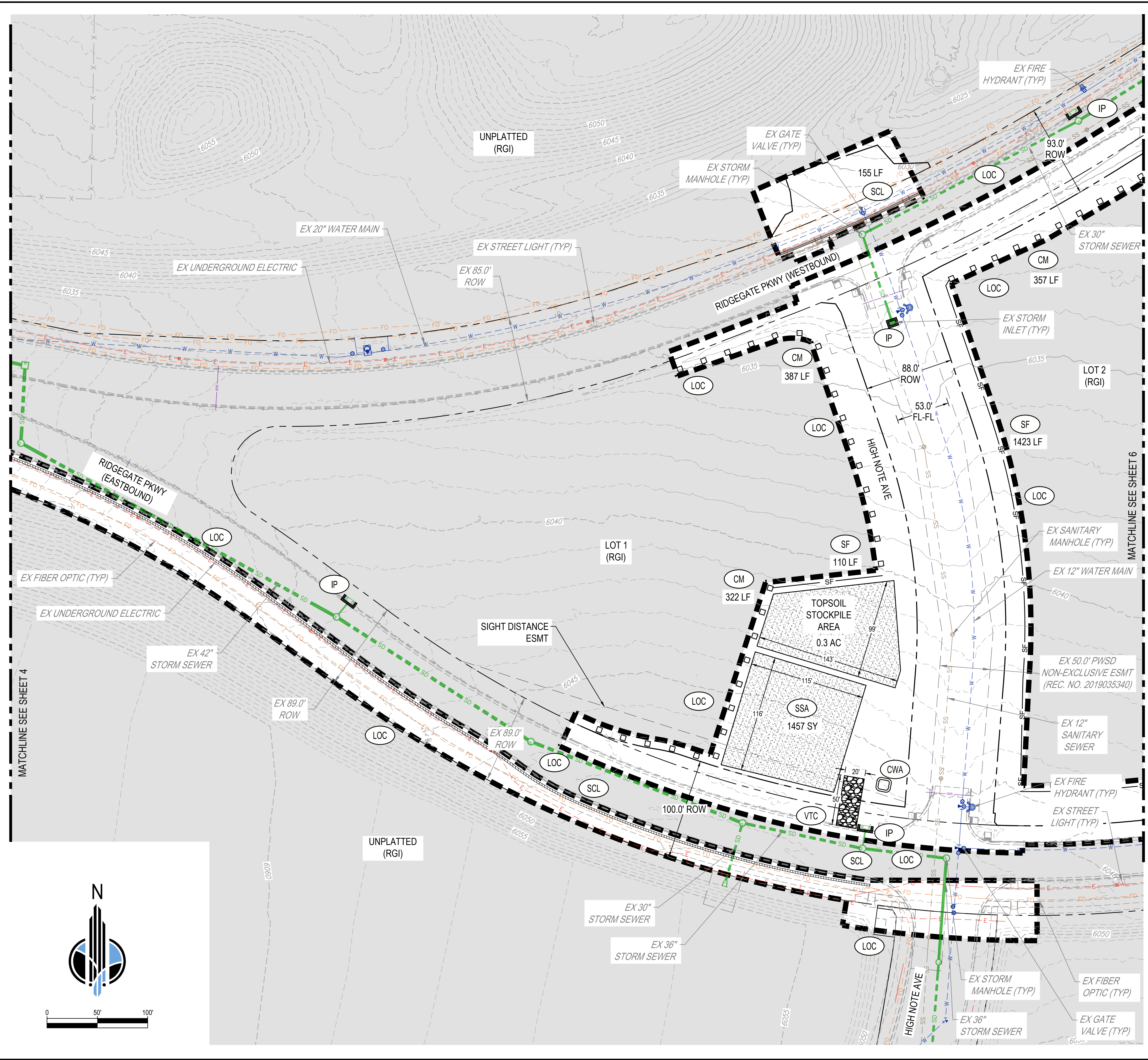


City of Lone Tree
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<p>5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111 303-751-0741 www.merrick.com</p>	
<p>DESIGN BY: CD</p> <p>DRAWN BY: NB</p> <p>CHECKED BY: CB</p> <p>APPROVED BY: CB</p>	<p>REV. NO.</p> <p>DESCRIPTION</p> <p>DATE</p> <p>DRWN/CHKD/APPR</p>
<p>RIDGEGATE EAST FILING NO. 3 GRADING, EROSION, AND SEDIMENT CONTROL PLAN</p>	
<p>INITIAL GEESC PLAN EXHIBIT 2</p>	
<p>ISSUED FOR REVIEW</p>	
<p>JOB NO.: 65121240</p> <p>DATE: 7/13/2023</p> <p>SHEET: 4 OF 26</p>	

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BMP LEGEND

(1-)	INITIAL BMP	(RS)	ROCK SOCK
(2-)	INTERIM BMP	(SB)	SEDIMENT BASIN
(3-)	FINAL BMP	(SCL)	SEDIMENT CONTROL LOG
(CD)	CHECK DAM	(ST)	SEDIMENT TRAP
(CB)	COMPOST BLANKET	(SM)	SEEDING AND MULCHING
(CFB)	COMPOST FILTER BERM	(SF)	SILT FENCE
(CWA)	CONCRETE WASHOUT AREA	(SSA)	STABILIZED STAGING AREA
(CF)	CONSTRUCTION FENCE	(SR)	SURFACE ROUGHENING
(CM)	CONSTRUCTION MARKER	(TSD)	TEMPORARY SLOPE DRAIN
(DW)	DEWATERING	(TSC)	TEMPORARY STREAM CROSSING
(DD)	DIVERSION DITCH	(TER)	TERRACING
(ECB)	EROSION CONTROL BLANKET	(VTC)	VEHICLE TRACKING CONTROL
(IP)	INLET PROTECTION	(WW)	VTC WITH WHEEL WASH
(RCD)	REINFORCED CHECK DAM	(LOC)	LIMITS OF CONSTRUCTION
(RRB)	REINFORCED ROCK BERM	(---)	CUT/FILL LIMITS
(RRC)	RRB FOR CULVERT PROTECTION		

811
Know what's below.
Call before you dig.

City of Lone Tree

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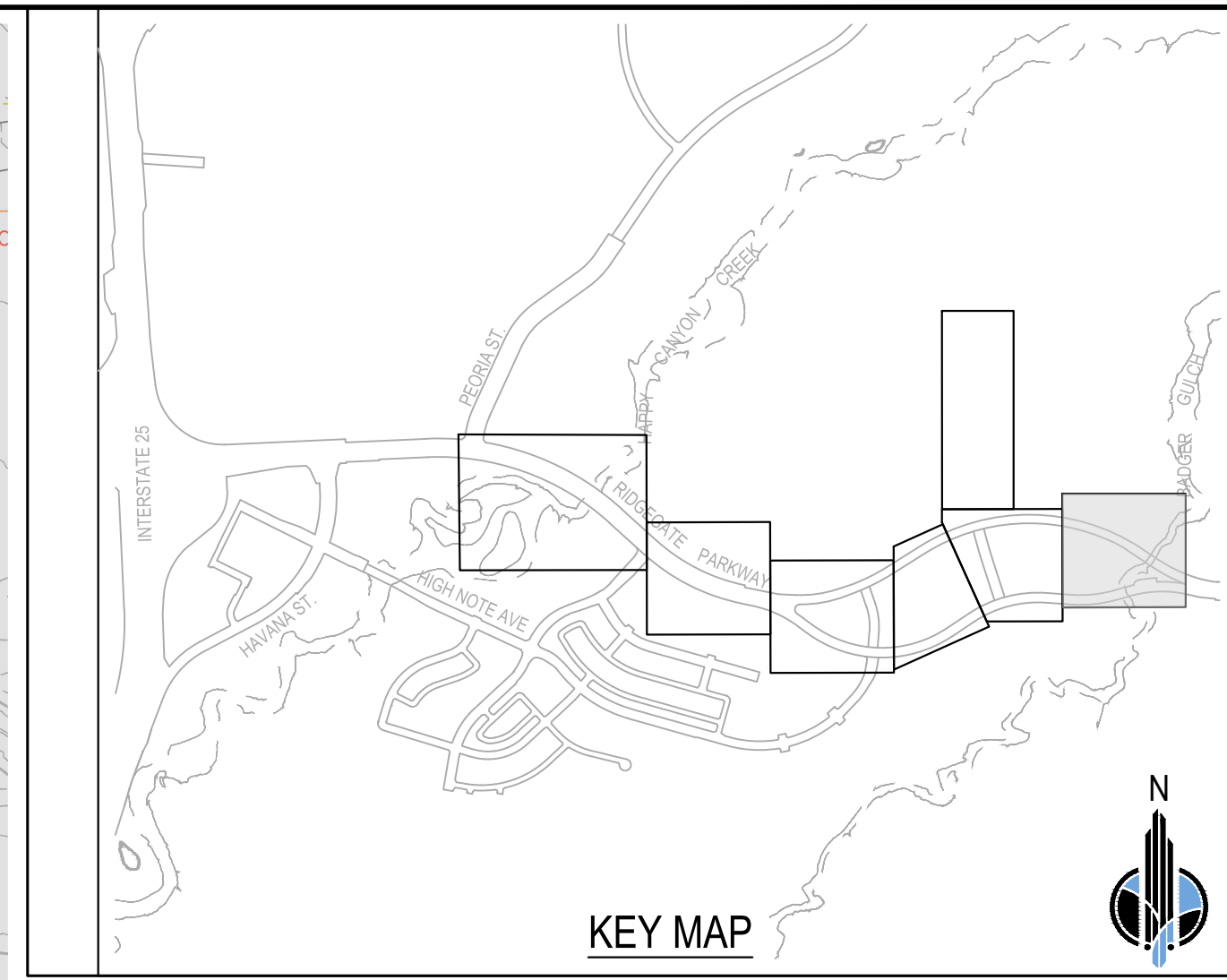
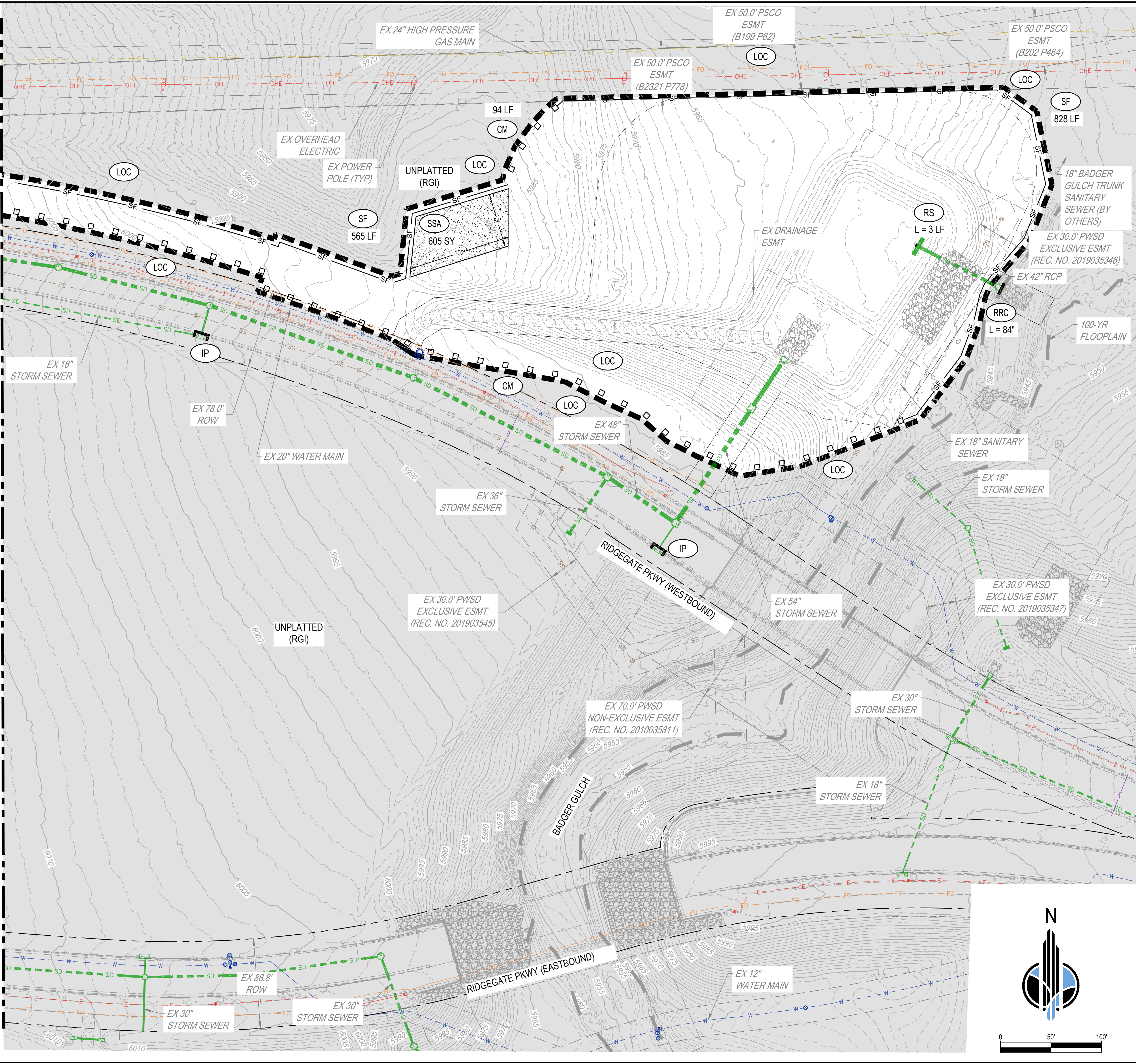
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APPROVED BY:	CB			
				DATE
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				REVISION DESCRIPTION
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GRADING, EROSION, AND SEDIMENT CONTROL PLAN				
INITIAL GESC PLAN EXHIBIT 3				
ISSUED FOR REVIEW				
JOB NO.:	65121240			
DATE:	7/13/2023			
SHEET:	5	OF	26	

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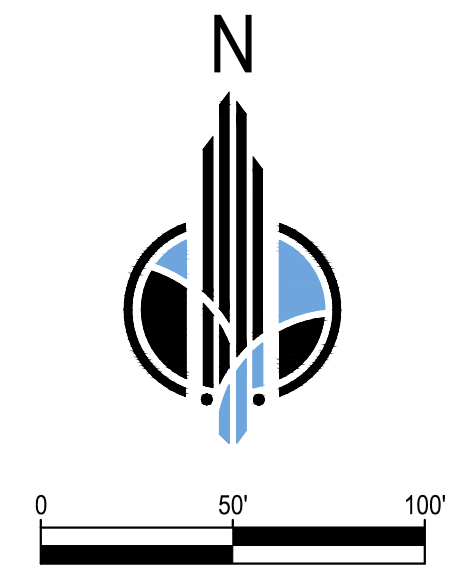
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MATCHLINE SEE SHEET 7



BMP LEGEND

(1-)	INITIAL BMP	(RS)	ROCK SOCK
(2-)	INTERIM BMP	(SB)	SEDIMENT BASIN
(3-)	FINAL BMP	(SCL)	SEDIMENT CONTROL LOG
(CD)	CHECK DAM	(ST)	SEDIMENT TRAP
(CB)	COMPOST BLANKET	(SM)	SEEDING AND MULCHING
(CFB)	COMPOST FILTER BERM	(SF)	SILT FENCE
(CWA)	CONCRETE WASHOUT AREA	(SSA)	STABILIZED STAGING AREA
(CF)	CONSTRUCTION FENCE	(SR)	SURFACE ROUGHENING
(CM)	CONSTRUCTION MARKER	(TSD)	TEMPORARY SLOPE DRAIN
(DW)	DEWATERING	(TSC)	TEMPORARY STREAM CROSSING
(DD)	DIVERSION DITCH	(TER)	TERRACING
(ECB)	EROSION CONTROL BLANKET	(VTC)	VEHICLE TRACKING CONTROL
(IP)	INLET PROTECTION	(WW)	VTC WITH WHEEL WASH
(RCD)	REINFORCED CHECK DAM	(LOC)	LIMITS OF CONSTRUCTION
(RRB)	REINFORCED ROCK BERM	(---)	CUT/FILL LIMITS
(RRC)	RRC FOR CULVERT PROTECTION		



City of Lone Tree

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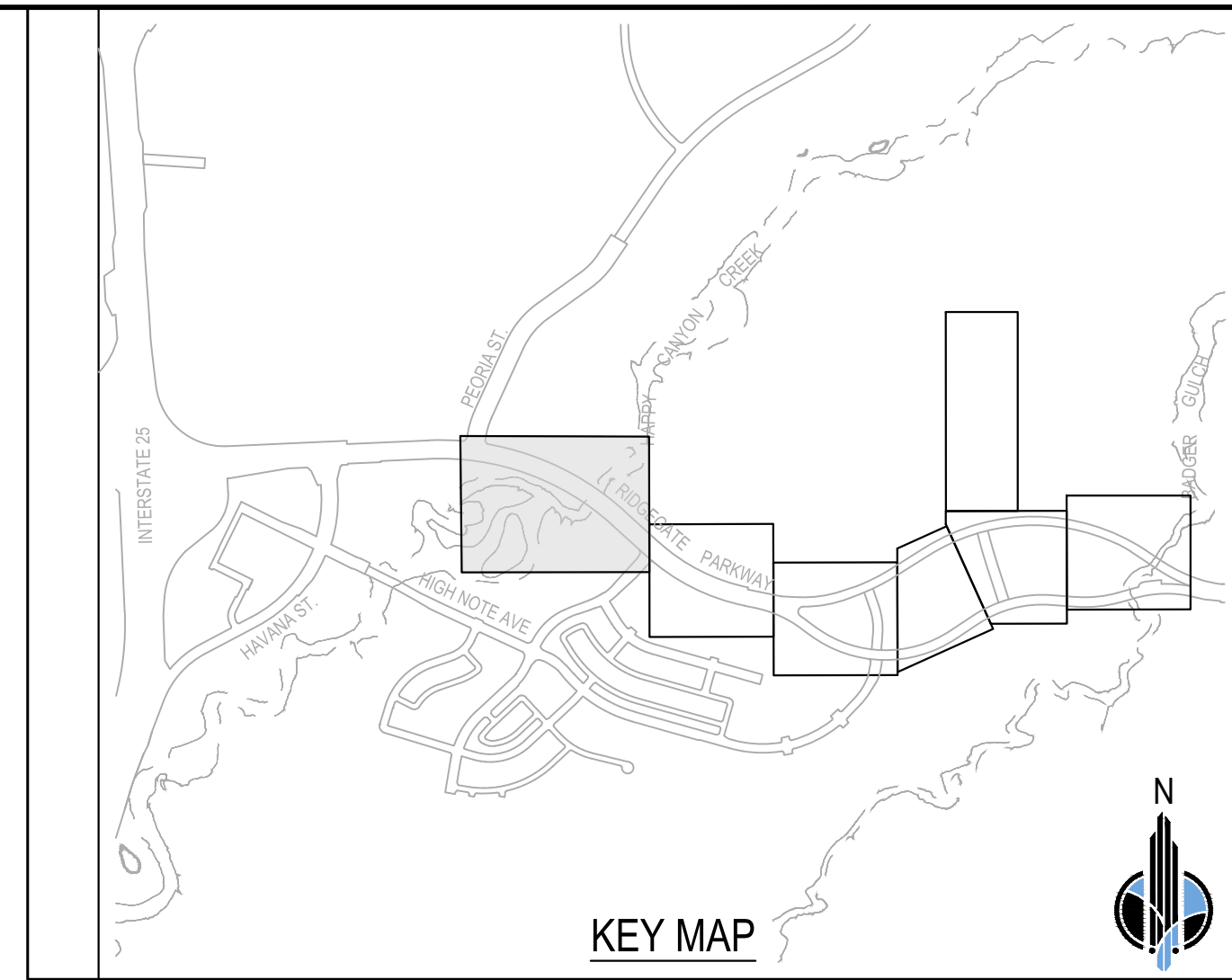
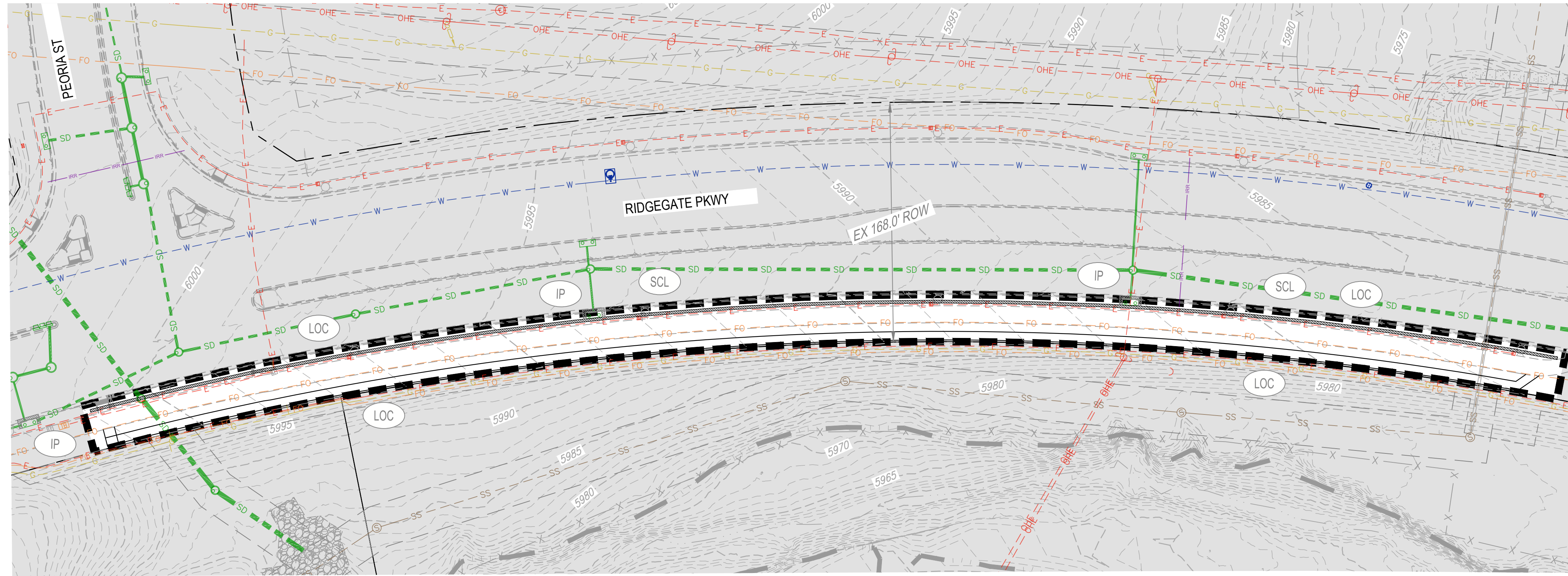
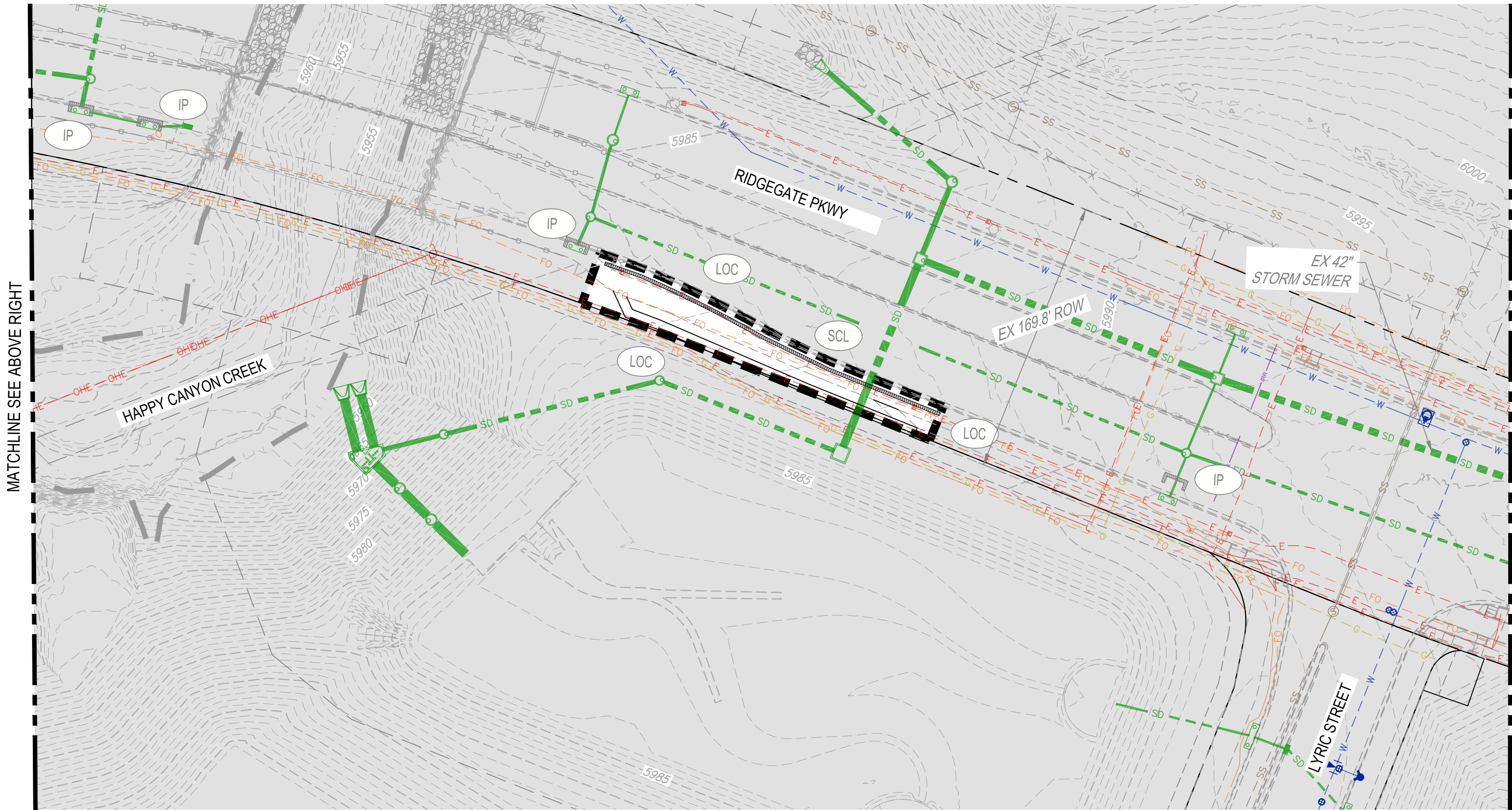
RIDGEGATE EAST FILING NO. 3
GRADING, EROSION, AND
SEDIMENT CONTROL PLAN

INITIAL GESC PLAN
EXHIBIT 6

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INTERIM GESC NOTES

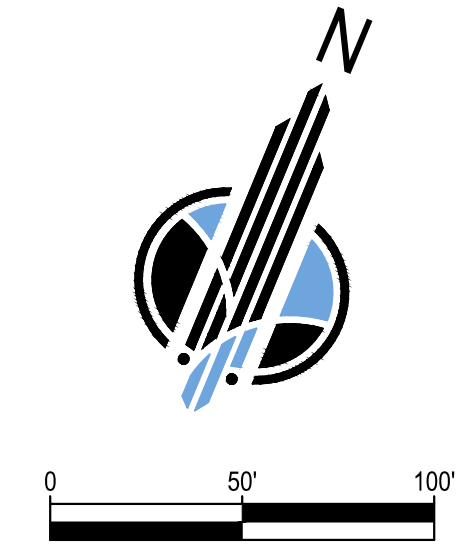
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
- SHADED BMPs WERE INSTALLED IN THE INITIAL STAGE AND SHALL BE LEFT IN PLACE IN THE INTERIM STAGE UNLESS OTHERWISE NOTED.
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- SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

SUMMARY OF CUT & FILL VOLUMES

CUT = 33,866 CY
 FILL = 34,803 CY
 NET = 937 CY (FILL)

BMP LEGEND

(1-)	INITIAL BMP	(RS)	ROCK SOCK
(2-)	INTERIM BMP	(SB)	SEDIMENT BASIN
(3-)	FINAL BMP	(SCL)	SEDIMENT CONTROL LOG
(CD)	CHECK DAM	(ST)	SEDIMENT TRAP
(CB)	COMPOST BLANKET	(SM)	SEEDING AND MULCHING
(CFB)	COMPOST FILTER BERM	(SF)	SILT FENCE
(CWA)	CONCRETE WASHOUT AREA	(SSA)	STABILIZED STAGING AREA
(CF)	CONSTRUCTION FENCE	(SR)	SURFACE ROUGHENING
(CM)	CONSTRUCTION MARKER	(TSD)	TEMPORARY SLOPE DRAIN
(DW)	DEWATERING	(TSC)	TEMPORARY STREAM CROSSING
(DD)	DIVERSION DITCH	(TER)	TERRACING
(ECB)	EROSION CONTROL BLANKET	(VTC)	VEHICLE TRACKING CONTROL
(IP)	INLET PROTECTION	(VWC)	VTC WITH WHEEL WASH
(RCD)	REINFORCED CHECK DAM	(LOC)	LIMITS OF CONSTRUCTION
(RRB)	REINFORCED ROCK BERM		CUT/FILL LIMITS
(RRC)	RRB FOR CULVERT PROTECTION		



City of Lone Tree

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RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN

INTERIM GESC PLAN
 EXHIBIT 1

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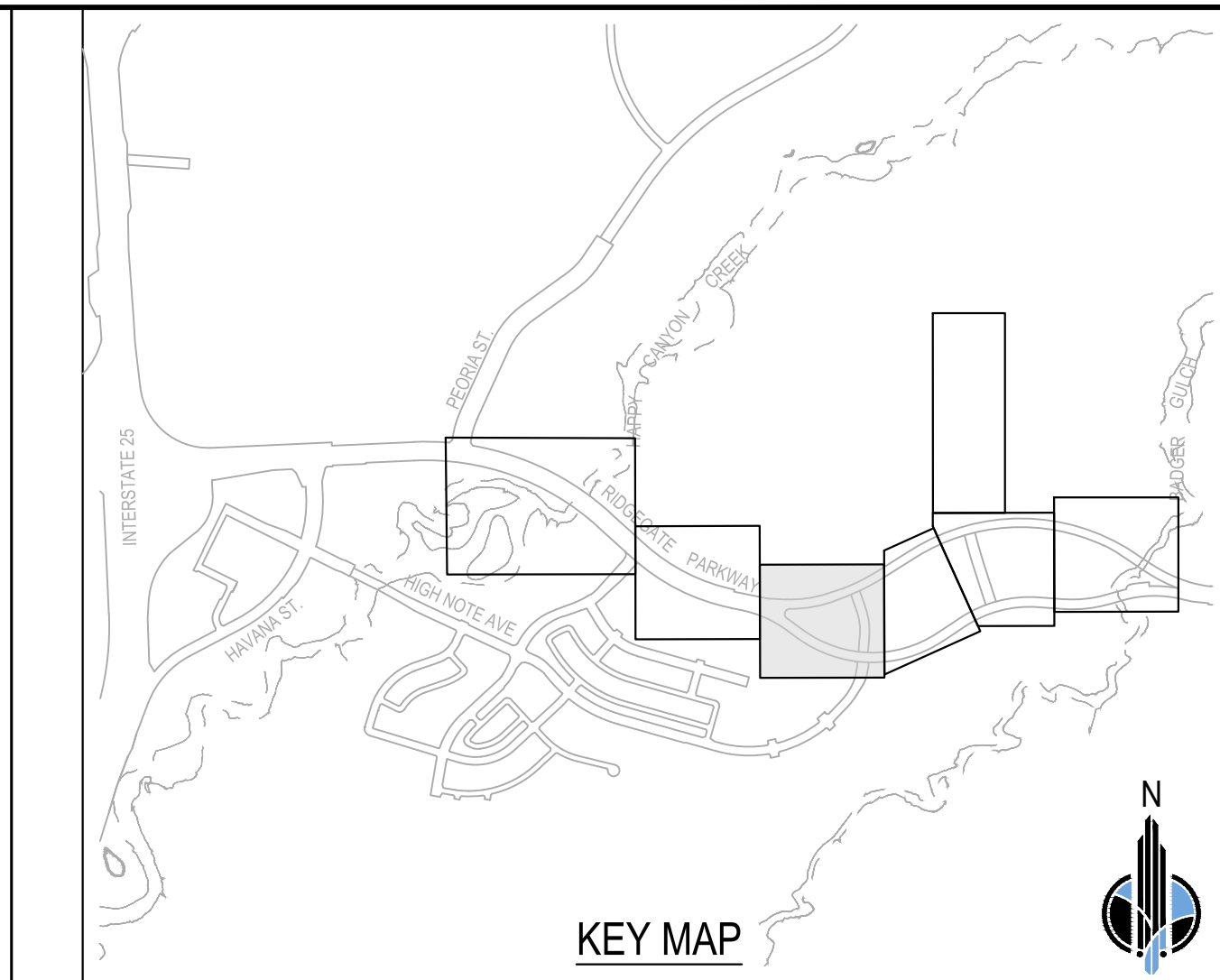
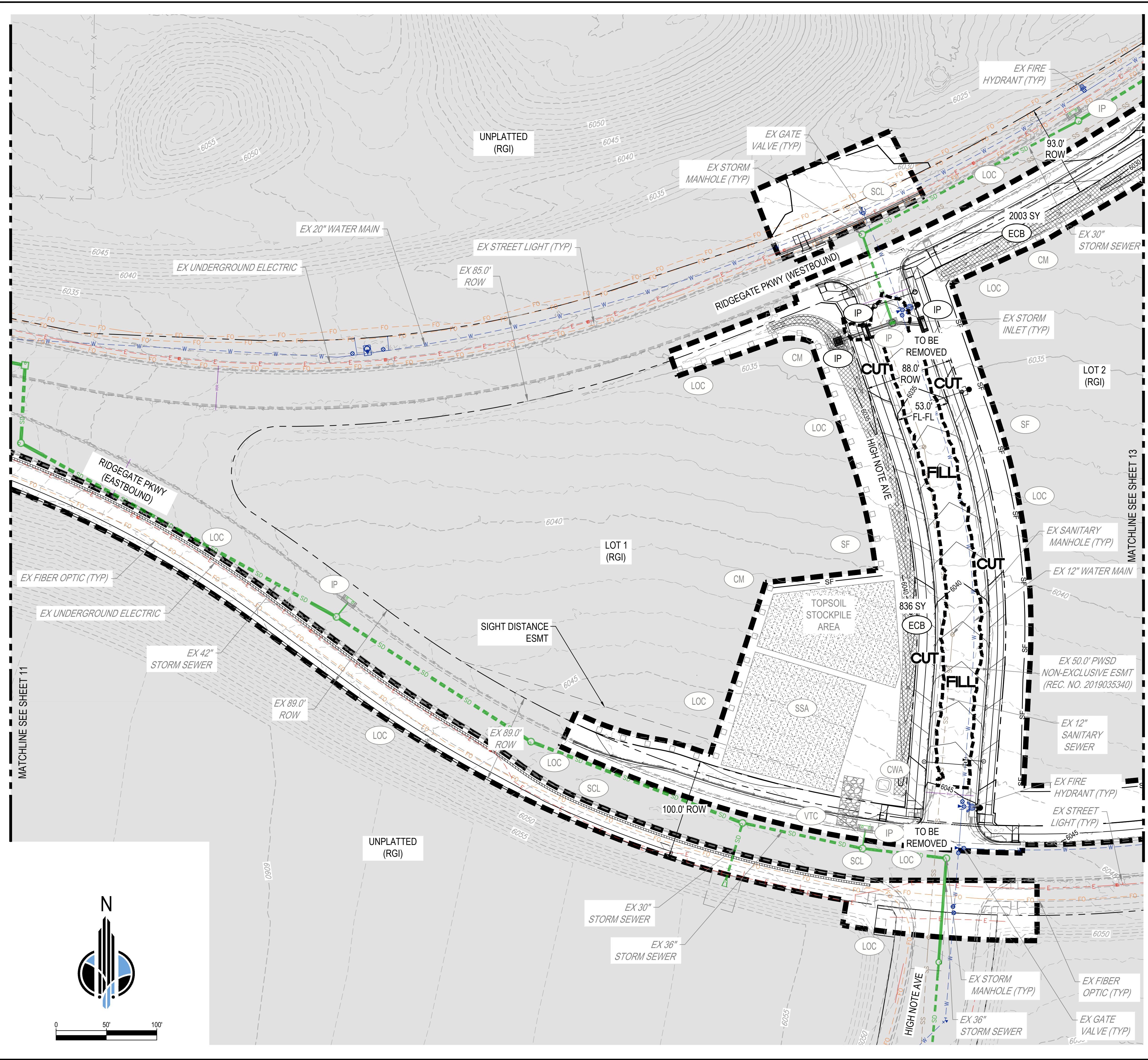
JOB NO.: 65121240

DATE: 7/13/2023

SHEET: 10 OF 26

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INTERIM GESC NOTES

- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
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- SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

SUMMARY OF CUT & FILL VOLUMES

CUT = 33,866 CY
 FILL = 34,803 CY
 NET = 937 CY (FILL)

BMP LEGEND

	INITIAL BMP		ROCK SOCK
	INTERIM BMP		SEDIMENT BASIN
	FINAL BMP		SEDIMENT CONTROL LOG
	CHECK DAM		SEDIMENT TRAP
	COMPOST BLANKET		SEEDING AND MULCHING
	COMPOST FILTER BERM		SILT FENCE
	CONCRETE WASHOUT AREA		STABILIZED STAGING AREA
	CONSTRUCTION FENCE		SURFACE ROUGHENING
	CONSTRUCTION MARKER		TEMPORARY SLOPE DRAIN
	DEWATERING		TEMPORARY STREAM CROSSING
	DIVERSION DITCH		TERRACING
	EROSION CONTROL BLANKET		VEHICLE TRACKING CONTROL
	INLET PROTECTION		VTC WITH WHEEL WASH
	REINFORCED CHECK DAM		LIMITS OF CONSTRUCTION
	REINFORCED ROCK BERM		CUT/FILL LIMITS
	RRB FOR CULVERT PROTECTION		



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APPROVED BY:	CB				

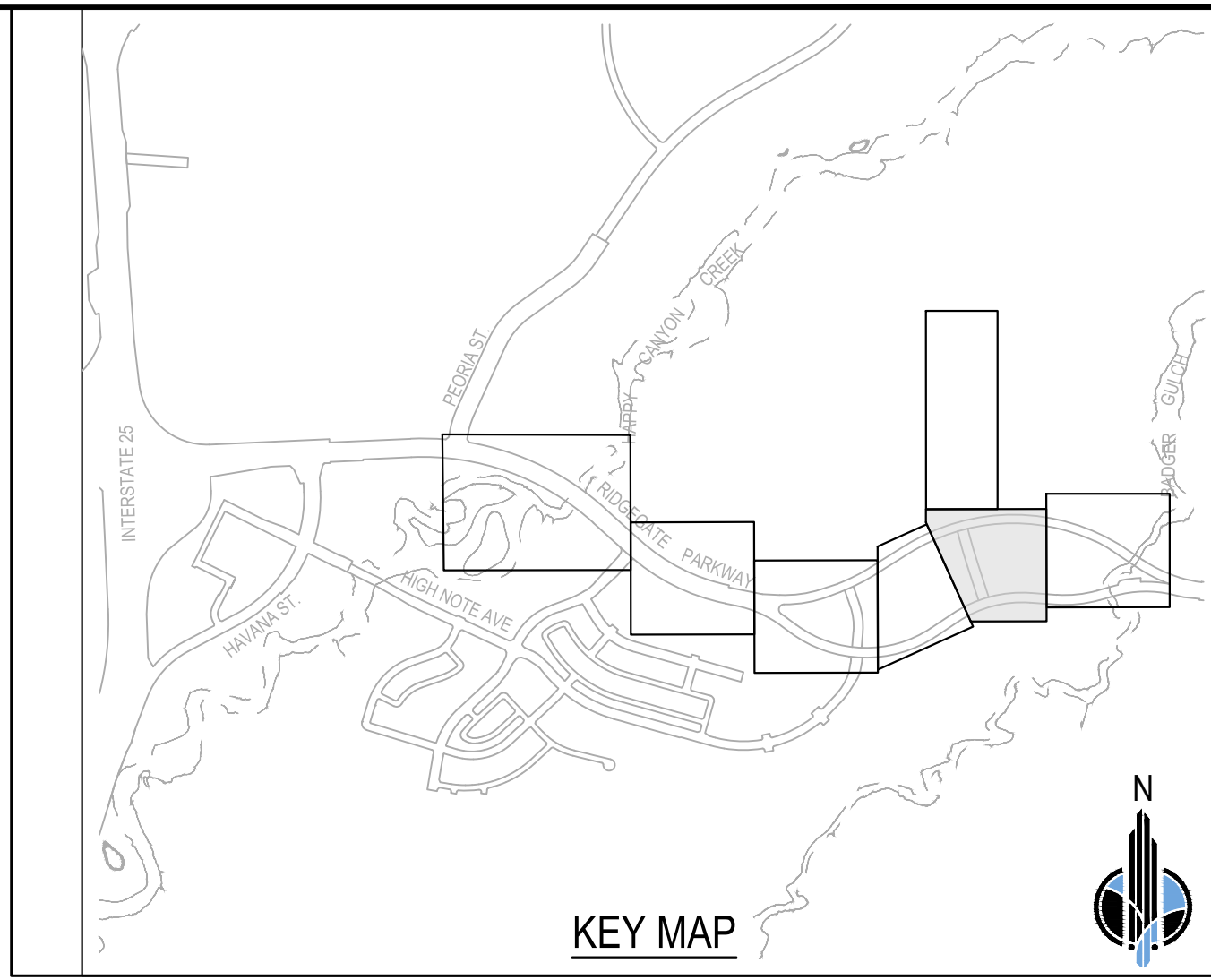
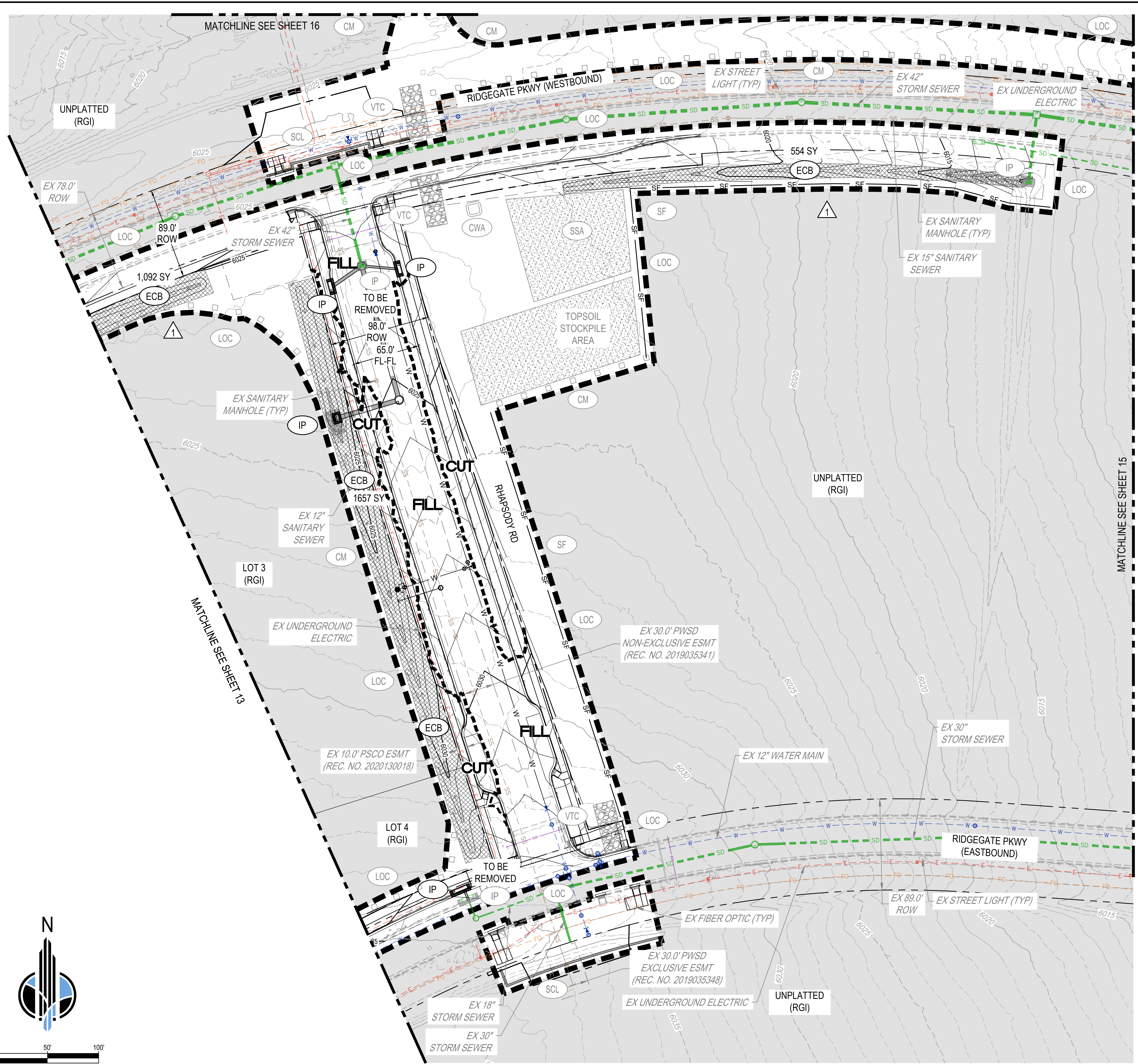
RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN
 INTERIM GESC PLAN
 EXHIBIT 3

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 12 OF 26

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INTERIM GESC NOTES

- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
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SUMMARY OF CUT & FILL VOLUMES

CUT = 33,866 CY
 FILL = 34,803 CY
 NET = 937 CY (FILL)

BMP LEGEND

1- INITIAL BMP	RS ROCK SOCK
2- INTERIM BMP	SB SEDIMENT BASIN
3- FINAL BMP	SCL SEDIMENT CONTROL LOG
CD CHECK DAM	ST SEDIMENT TRAP
CB COMPOST BLANKET	SM SEEDING AND MULCHING
CFB COMPOST FILTER BERM	SF SILT FENCE
CWA CONCRETE WASHOUT AREA	SSA STABILIZED STAGING AREA
CF CONSTRUCTION FENCE	SR SURFACE ROUGHENING
CM CONSTRUCTION MARKER	TSD TEMPORARY SLOPE DRAIN
DW DEWATERING	TSC TEMPORARY STREAM CROSSING
DD DIVERSION DITCH	TER TERRACING
ECB EROSION CONTROL BLANKET	VTC VEHICLE TRACKING CONTROL
IP INLET PROTECTION	WW VTC WITH WHEEL WASH
RCD REINFORCED CHECK DAM	LOC LIMITS OF CONSTRUCTION
RRB REINFORCED ROCK BERM	CUT/FILL LIMITS
RRC RRB FOR CULVERT PROTECTION	



City of Lone Tree
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APPROVED BY:	CB			

RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND SEDIMENT CONTROL PLAN
 INTERIM GESC PLAN EXHIBIT 5

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 14 OF 26

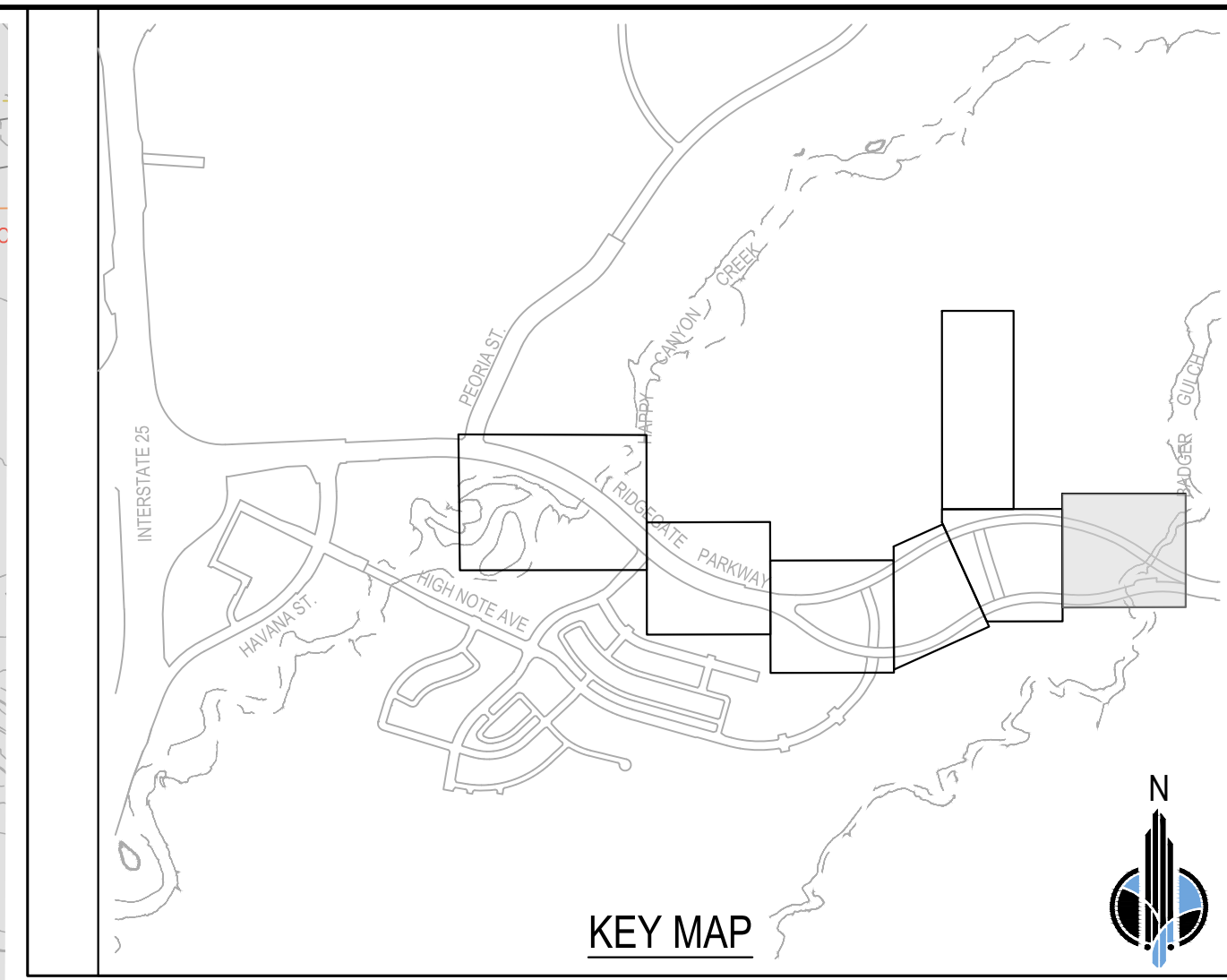
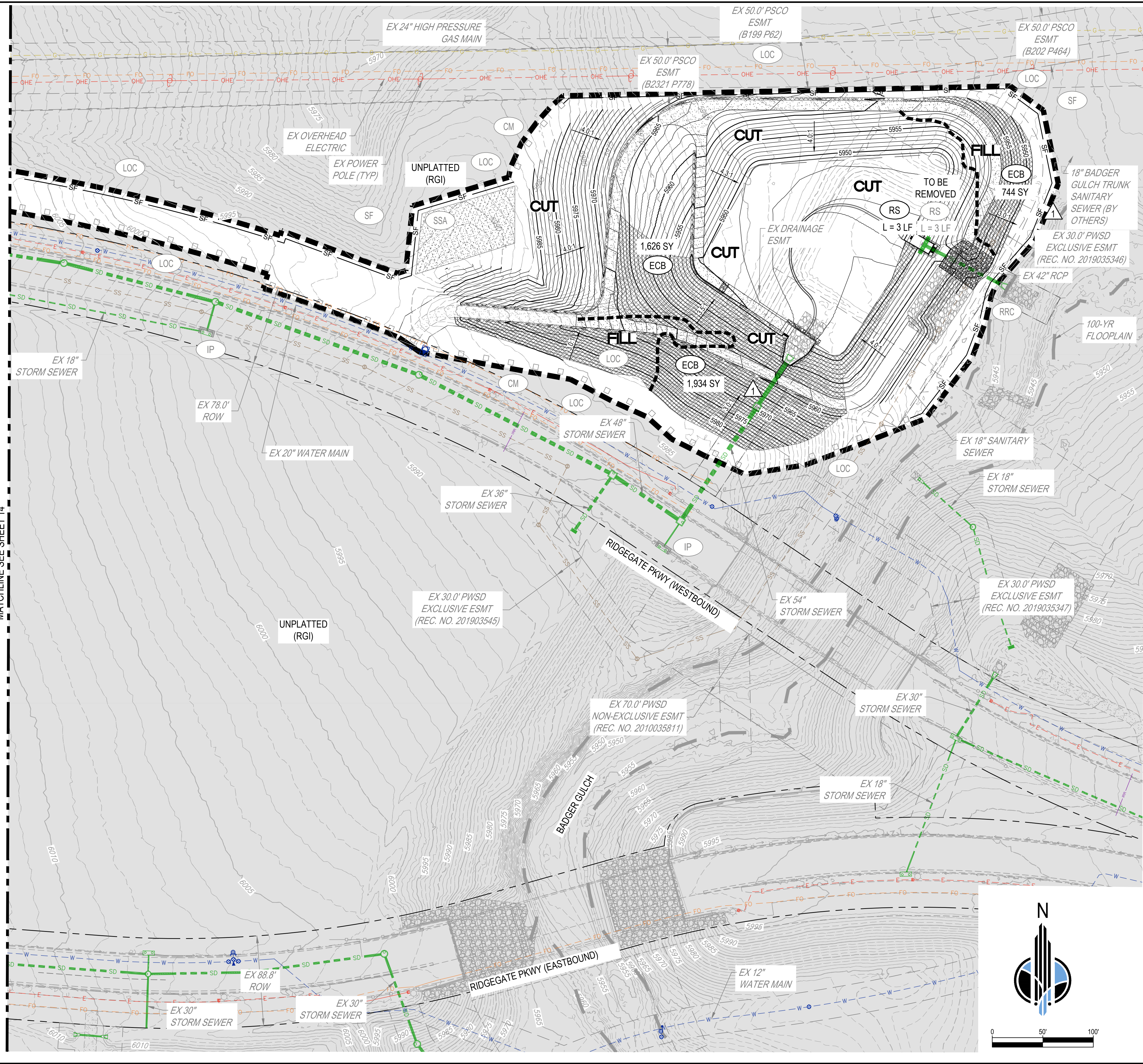
ISSUED FOR REVIEW

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MATCHLINE SEE SHEET 14

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INTERIM GESC NOTES

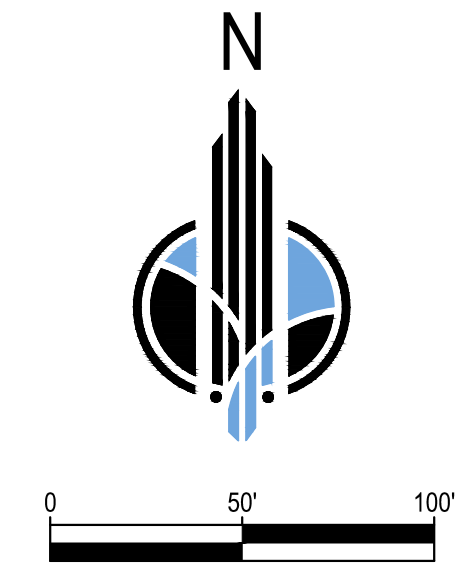
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
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SUMMARY OF CUT & FILL VOLUMES

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BMP LEGEND

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	INTERIM BMP		SEDIMENT BASIN
	FINAL BMP		SEDIMENT CONTROL LOG
	CHECK DAM		SEDIMENT TRAP
	COMPOST BLANKET		SEEDING AND MULCHING
	COMPOST FILTER BERM		SILT FENCE
	CONCRETE WASHOUT AREA		STABILIZED STAGING AREA
	CONSTRUCTION FENCE		SURFACE ROUGHENING
	CONSTRUCTION MARKER		TEMPORARY SLOPE DRAIN
	DEWATERING		TEMPORARY STREAM CROSSING
	DIVERSION DITCH		TERRACING
	EROSION CONTROL BLANKET		VEHICLE TRACKING CONTROL
	INLET PROTECTION		VTC WITH WHEEL WASH
	REINFORCED CHECK DAM		LIMITS OF CONSTRUCTION
	REINFORCED ROCK BERM		CUT/FILL LIMITS
	RRB FOR CULVERT PROTECTION		



City of Lone Tree

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Engineering Division Tascance Block



CD	NO	CB	CB	REV	REVISION DESCRIPTION	DATE	DRWN/CHKD	APPR

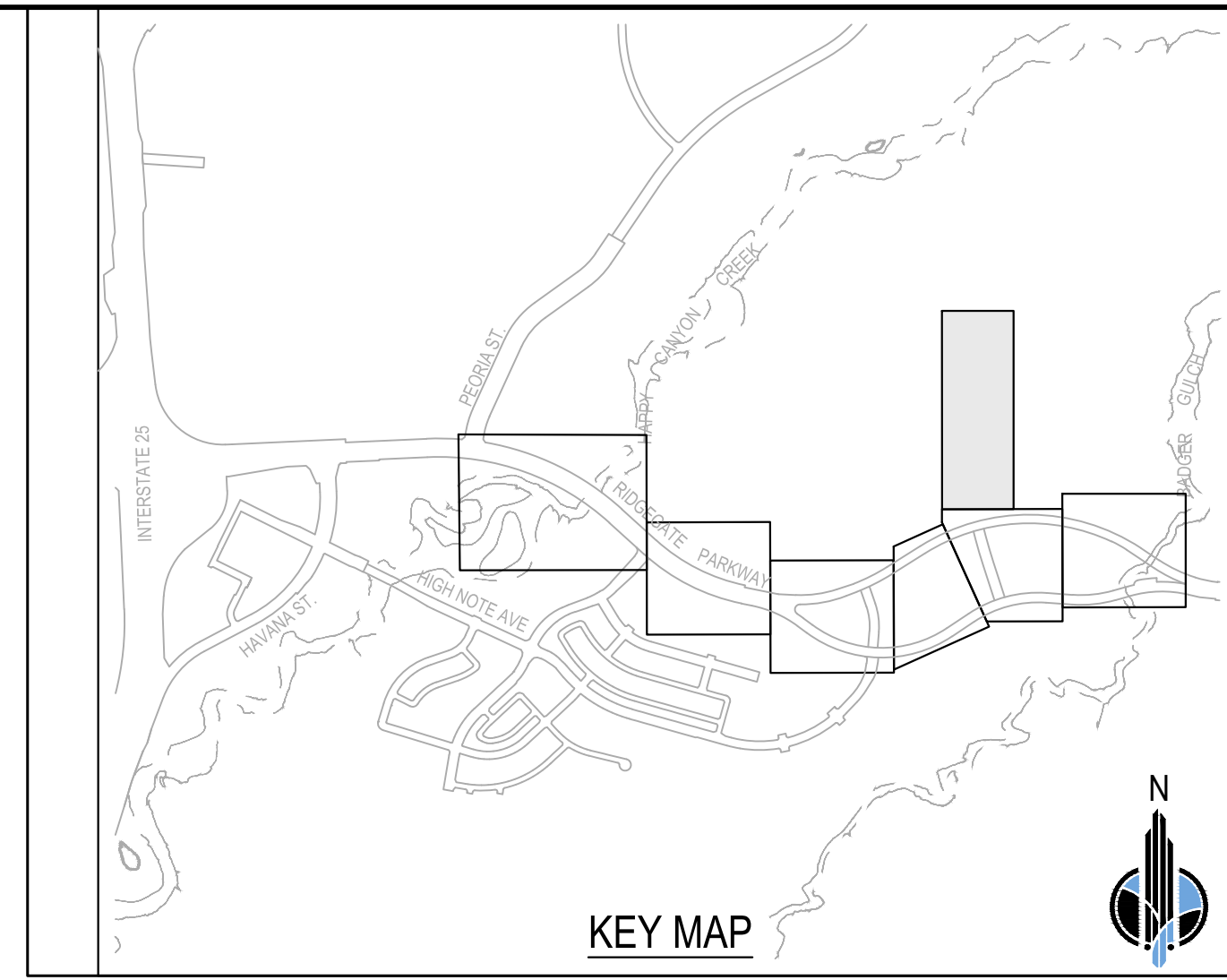
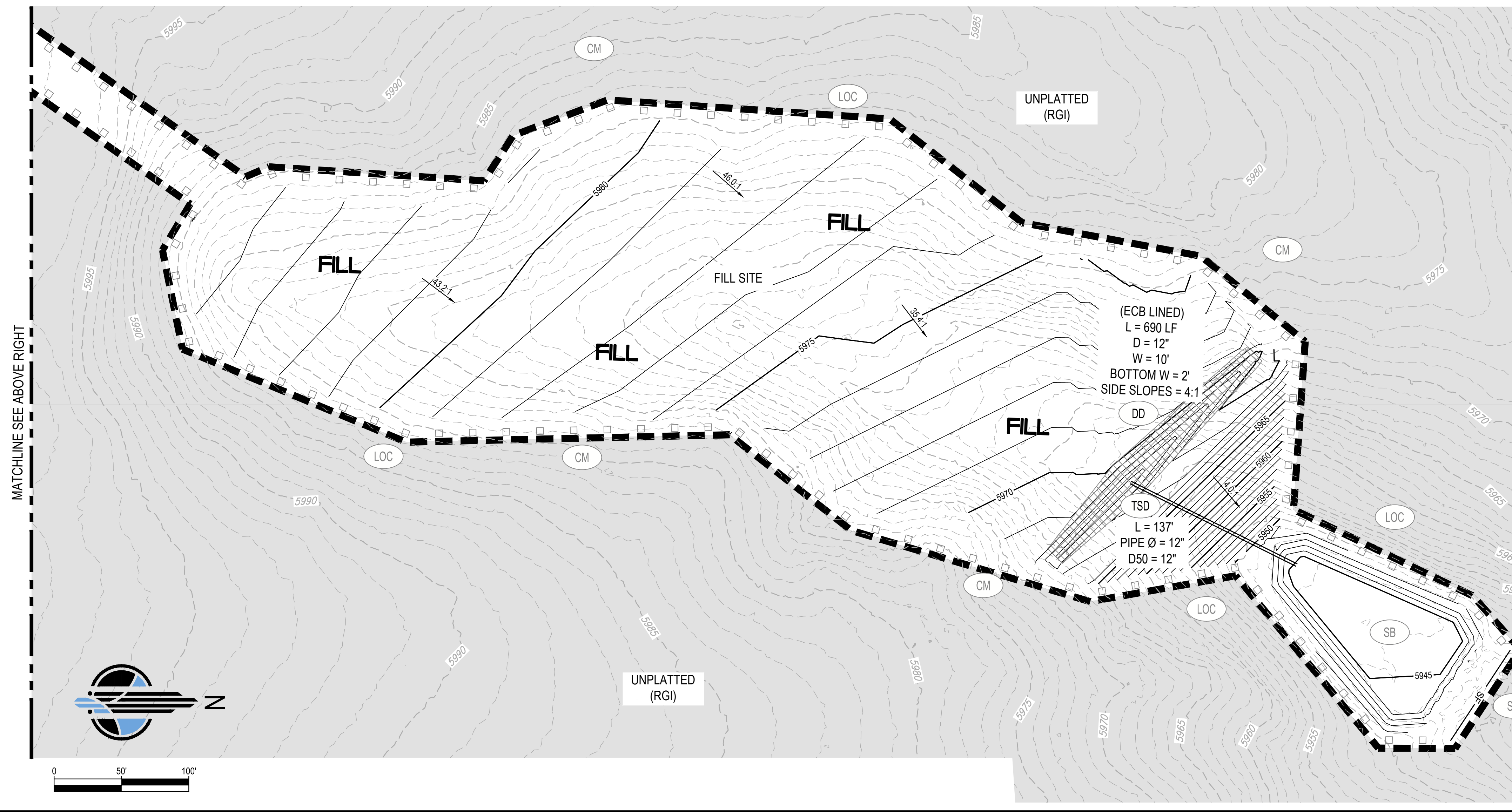
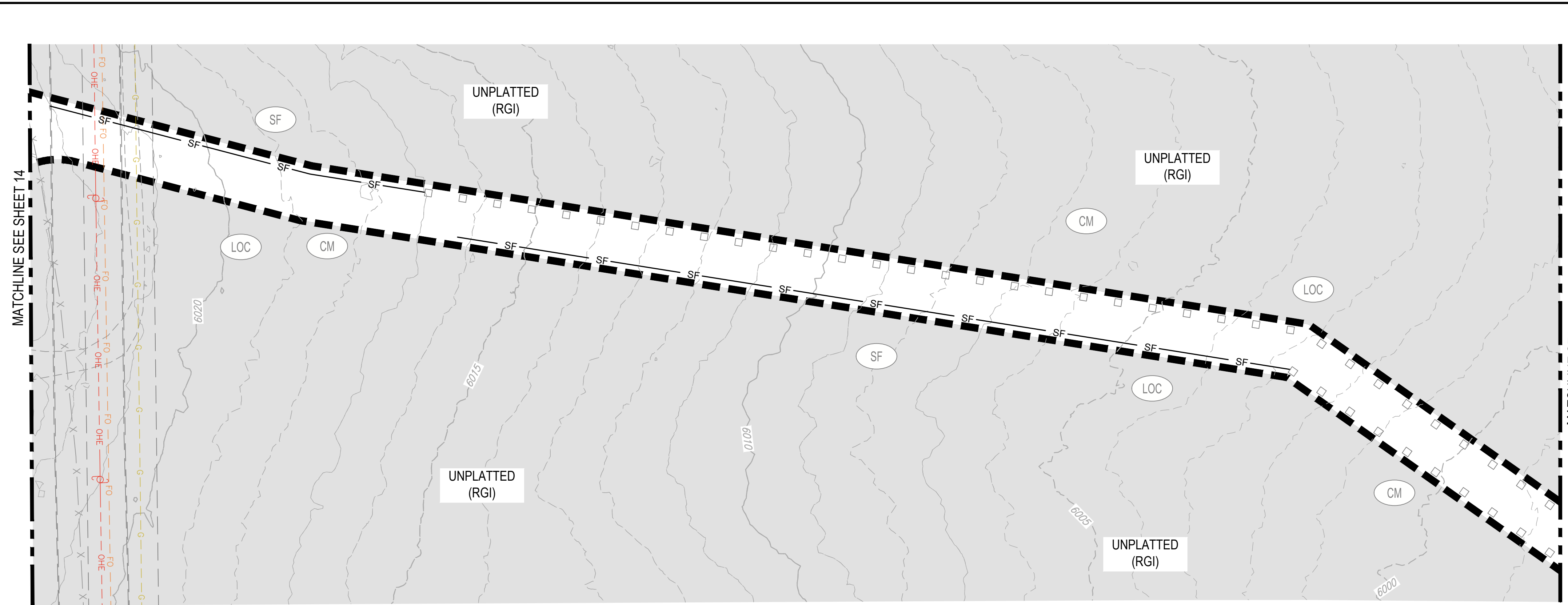
RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN
 INTERIM GESC PLAN
 EXHIBIT 6

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 15 OF 26

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THE USE OF THESE EROSION CONTROL MEASURES IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY FOR A SPECIFIC PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE IN WHOLE OR IN PART OR FOR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION NOT A PART OF THIS INSTRUMENT WITHOUT THE WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK AND WITHOUT LIABILITY TO MERRICK AND COMPANY.

File Location: D:\DEN\Projects\5097-02-RRWD Overall East\Projects\1240-Couplet Roadway Design\Design\CDs\GESC\1240-GESC PLAN\INTERIM.dwg Plot Date: 7/13/2023 5:45 PM Last Saved By: BBERN



INTERIM GESC NOTES

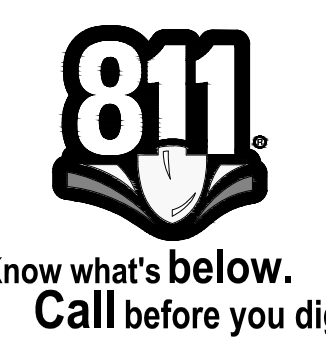
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
- SHADED BMPs WERE INSTALLED IN THE INITIAL STAGE AND SHALL BE LEFT IN PLACE IN THE INTERIM STAGE UNLESS OTHERWISE NOTED.
- ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE CITY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.
- SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

SUMMARY OF CUT & FILL VOLUMES

CUT = 33,866 CY
 FILL = 34,803 CY
 NET = 937 CY (FILL)

BMP LEGEND

1- INITIAL BMP	RS ROCK SOCK
2- INTERIM BMP	SB SEDIMENT BASIN
3- FINAL BMP	SCL SEDIMENT CONTROL LOG
CD CHECK DAM	ST SEDIMENT TRAP
CB COMPOST BLANKET	SM SEEDING AND MULCHING
CFB COMPOST FILTER BERM	SF SILT FENCE
CWA CONCRETE WASHOUT AREA	SSA STABILIZED STAGING AREA
CF CONSTRUCTION FENCE	SR SURFACE ROUGHENING
CM CONSTRUCTION MARKER	TSD TEMPORARY SLOPE DRAIN
DW DEWATERING	TSC TEMPORARY STREAM CROSSING
DD DIVERSION DITCH	TER TERRACING
ECB EROSION CONTROL BLANKET	VTC VEHICLE TRACKING CONTROL
IP INLET PROTECTION	VWC VTC WITH WHEEL WASH
RCD REINFORCED CHECK DAM	LOC LIMITS OF CONSTRUCTION
RRB REINFORCED ROCK BERM	CUT/FILL LIMITS
RRC RRB FOR CULVERT PROTECTION	



City of Lone Tree

These construction plans have been reviewed by the City of Lone Tree for grading, erosion and sediment control improvements only.

Engineering Division Acceptance Block



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				DRWNCHKD/APPR

RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN
 INTERIM GESC PLAN
 EXHIBIT 7

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 16 OF 26

ISSUED FOR REVIEW

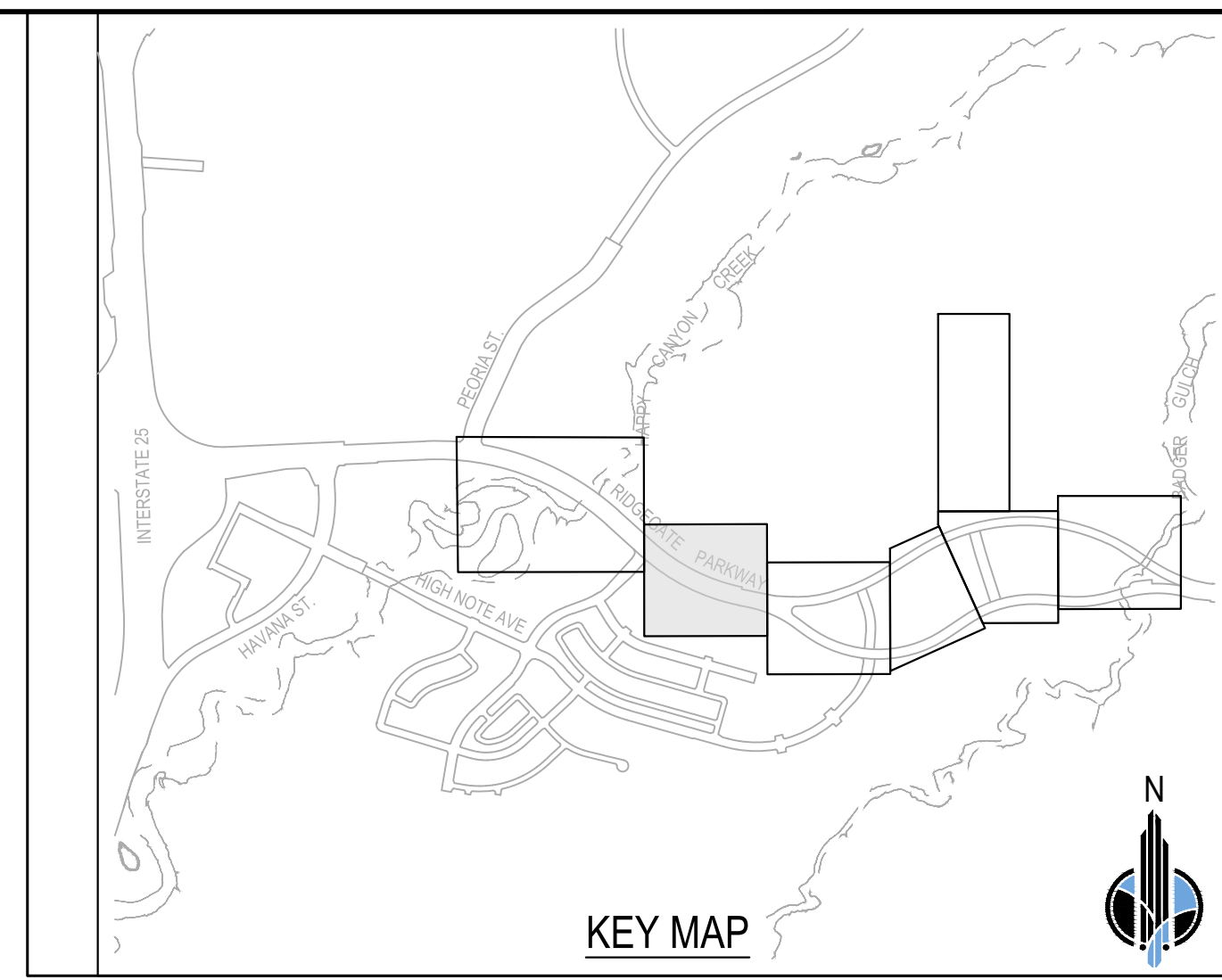
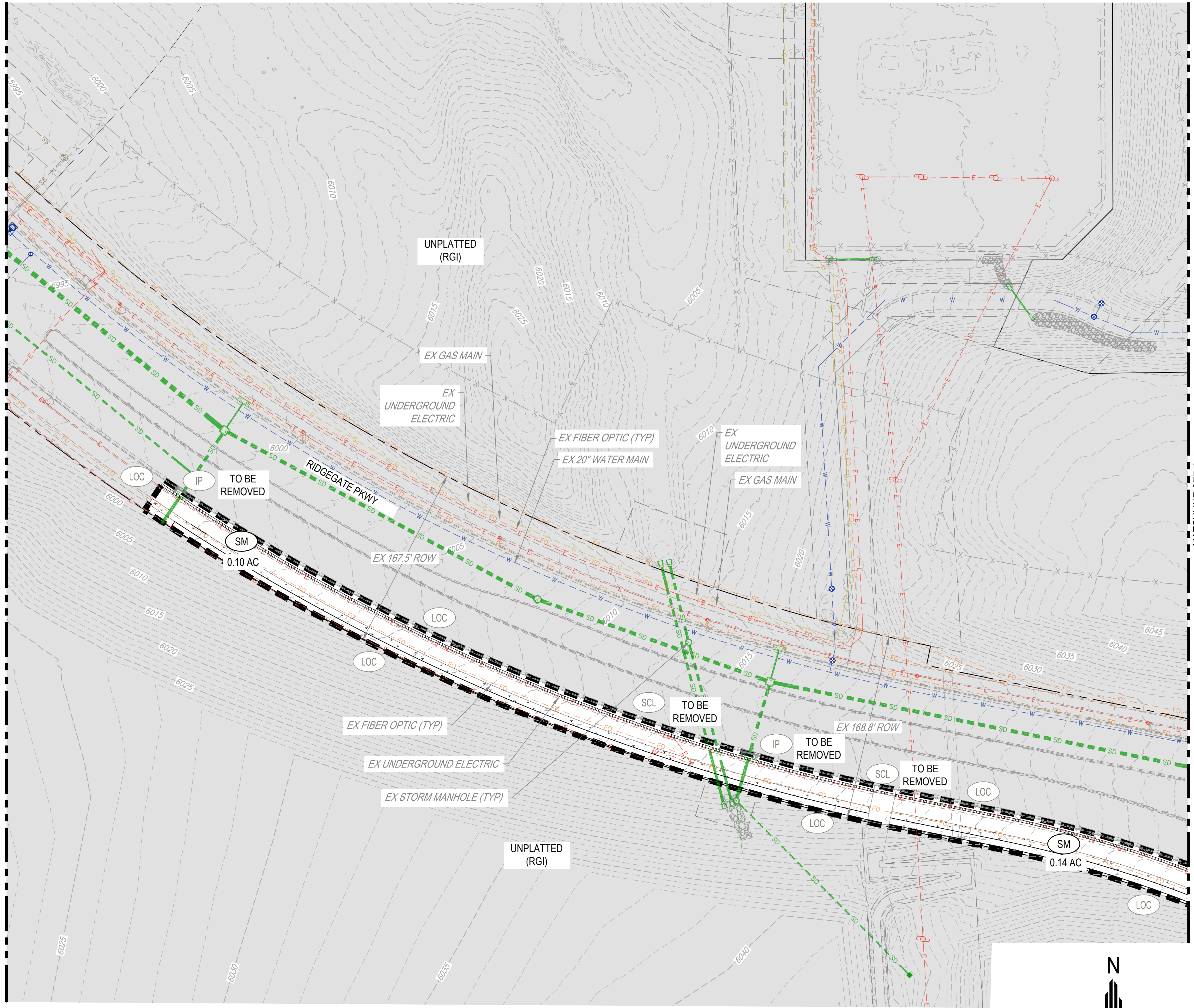
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THE USE OF ANY GEOTECHNICAL DATA OR INFORMATION IN THIS DOCUMENT IS SOLELY FOR THE INFORMATION OF THE USER AND DOES NOT CONSTITUTE A WARRANTY OR A GUARANTEE OF ANY KIND. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.

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MATCHLINE SEE SHEET 17

MATCHLINE SEE SHEET 19

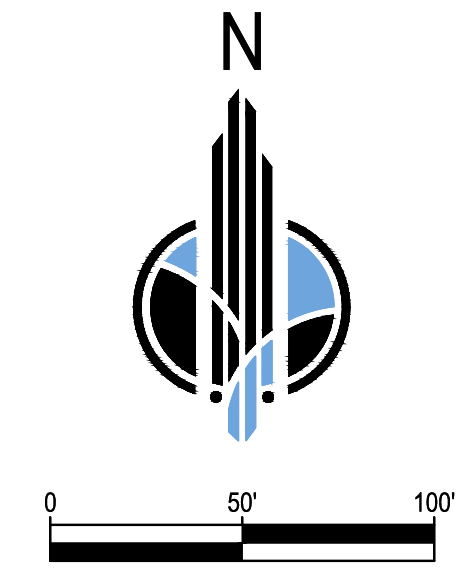


FINAL GESC NOTES

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BMP LEGEND

1- INITIAL BMP	RS ROCK SOCK
2- INTERIM BMP	SB SEDIMENT BASIN
3- FINAL BMP	SCL SEDIMENT CONTROL LOG
CD CHECK DAM	ST SEDIMENT TRAP
CB COMPOST BLANKET	SM SEEDING AND MULCHING
CFB COMPOST FILTER BERM	SF SILT FENCE
CWA CONCRETE WASHOUT AREA	SSA STABILIZED STAGING AREA
CF CONSTRUCTION FENCE	SR SURFACE ROUGHENING
CM CONSTRUCTION MARKER	TSD TEMPORARY SLOPE DRAIN
DW DEWATERING	TSC TEMPORARY STREAM CROSSING
DD DIVERSION DITCH	TER TERRACING
ECB EROSION CONTROL BLANKET	VTC VEHICLE TRACKING CONTROL
IP INLET PROTECTION	WW VTC WITH WHEEL WASH
RCD REINFORCED CHECK DAM	LOC LIMITS OF CONSTRUCTION
RRB REINFORCED ROCK BERM	CUT/FILL LIMITS
RRC RRB FOR CULVERT PROTECTION	



City of Lone Tree

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APPROVED BY:	CB				

RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
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 FINAL GESC PLAN
 EXHIBIT 2

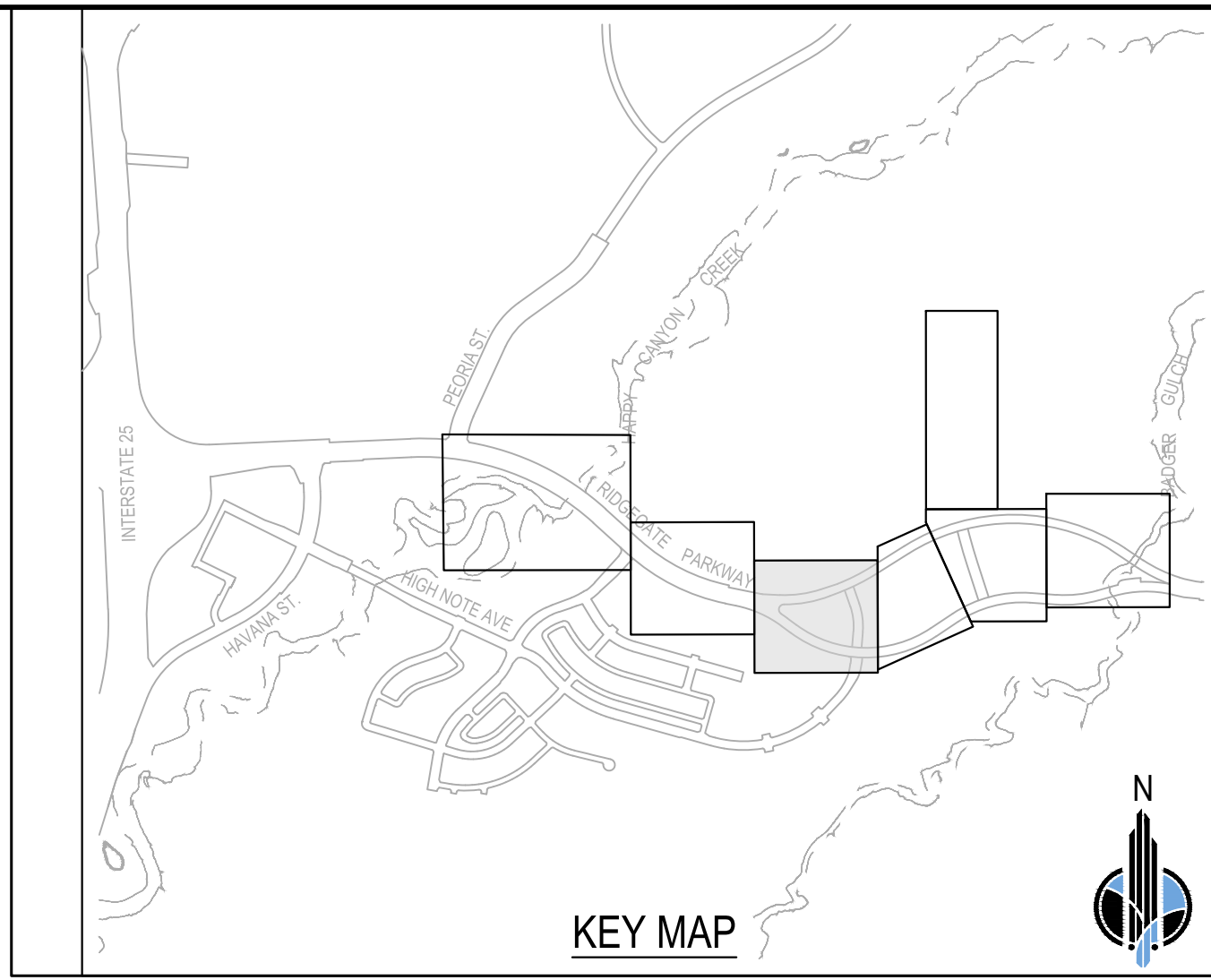
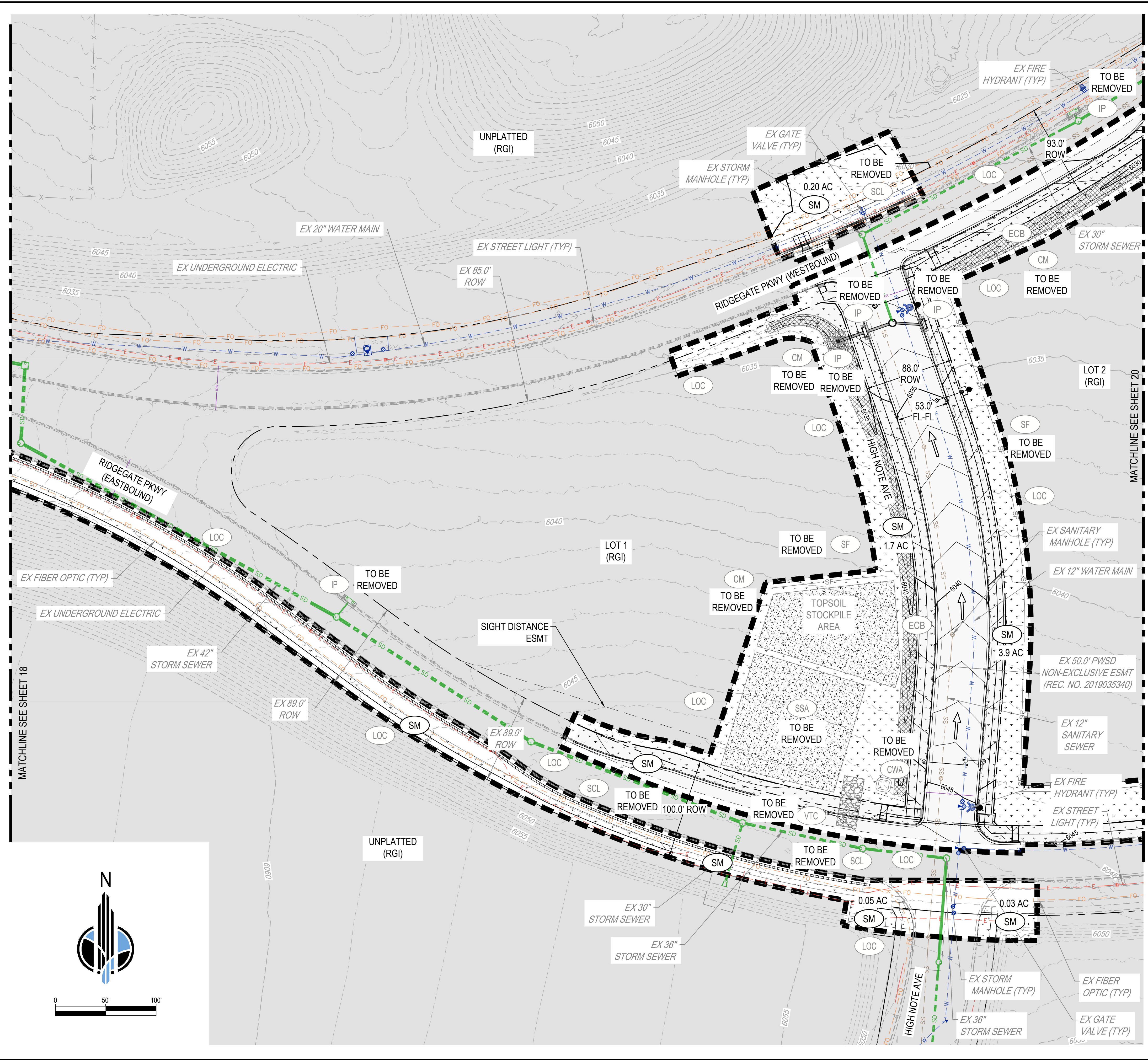
JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 18 OF 26

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FOR AND ON BEHALF OF MERRICK & COMPANY

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FINAL GESC NOTES

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BMP LEGEND

1-	INITIAL BMP	RS	ROCK SOCK
2-	INTERIM BMP	SB	SEDIMENT BASIN
3-	FINAL BMP	SCL	SEDIMENT CONTROL LOG
CD	CHECK DAM	ST	SEDIMENT TRAP
CB	COMPOST BLANKET	SM	SEEDING AND MULCHING
CFB	COMPOST FILTER BERM	SF	SILT FENCE
CWA	CONCRETE WASHOUT AREA	SSA	STABILIZED STAGING AREA
CF	CONSTRUCTION FENCE	SR	SURFACE ROUGHENING
CM	CONSTRUCTION MARKER	TSD	TEMPORARY SLOPE DRAIN
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DD	DIVERSION DITCH	TER	TERRACING
ECB	EROSION CONTROL BLANKET	VTC	VEHICLE TRACKING CONTROL
IP	INLET PROTECTION	WW	VTC WITH WHEEL WASH
RCD	REINFORCED CHECK DAM	LOC	LIMITS OF CONSTRUCTION
RRB	REINFORCED ROCK BERM		CUT/FILL LIMITS
RRC	RRB FOR CULVERT PROTECTION		

811
Know what's below.
Call before you dig.

City of Lone Tree

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Engineering Division Acceptance Block

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Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions
5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111
303-751-0741
www.merrick.com

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APPROVED BY:	CB				

RIDGEGATE EAST FILING NO. 3
GRADING, EROSION, AND
SEDIMENT CONTROL PLAN
FINAL GESC PLAN
EXHIBIT 3

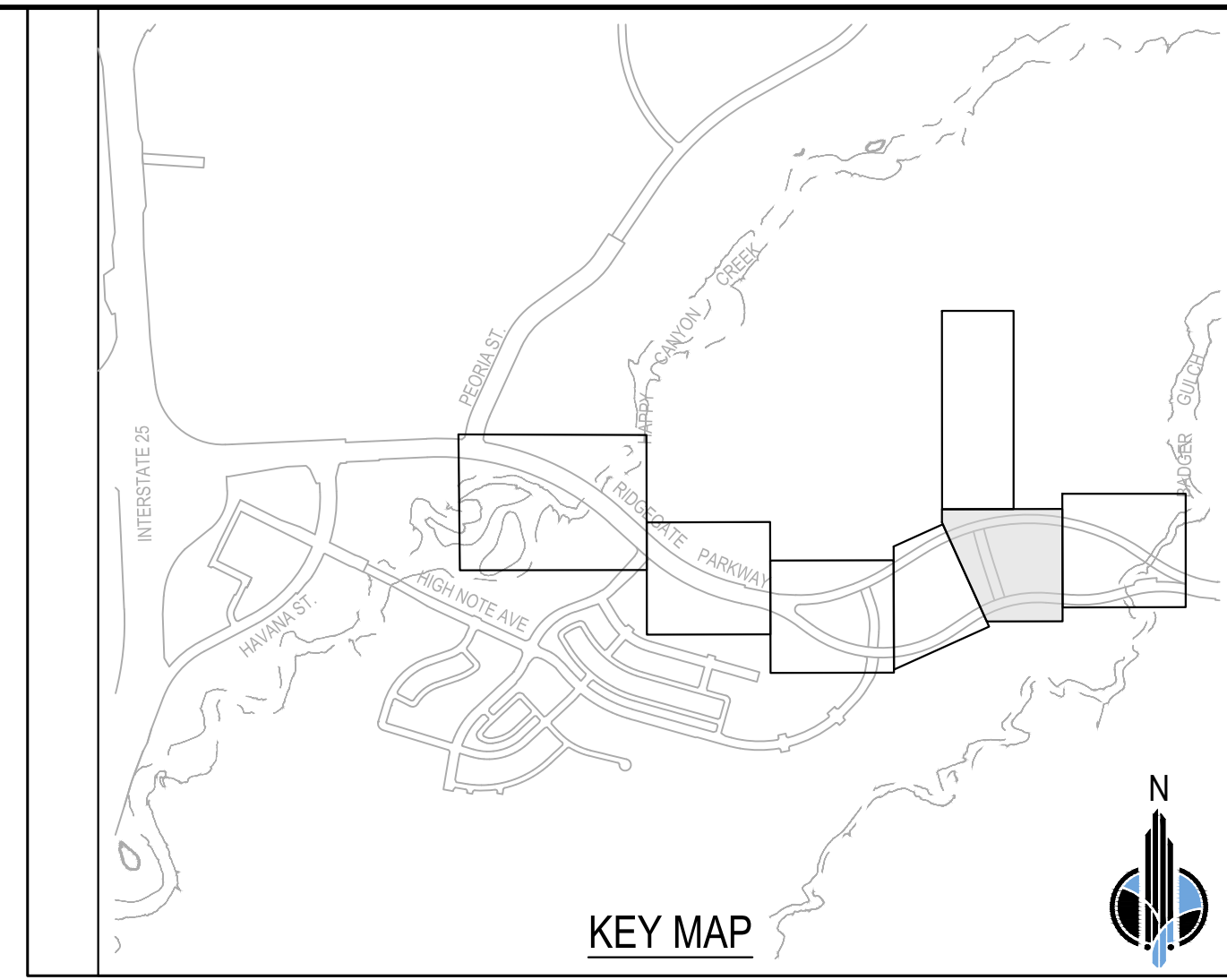
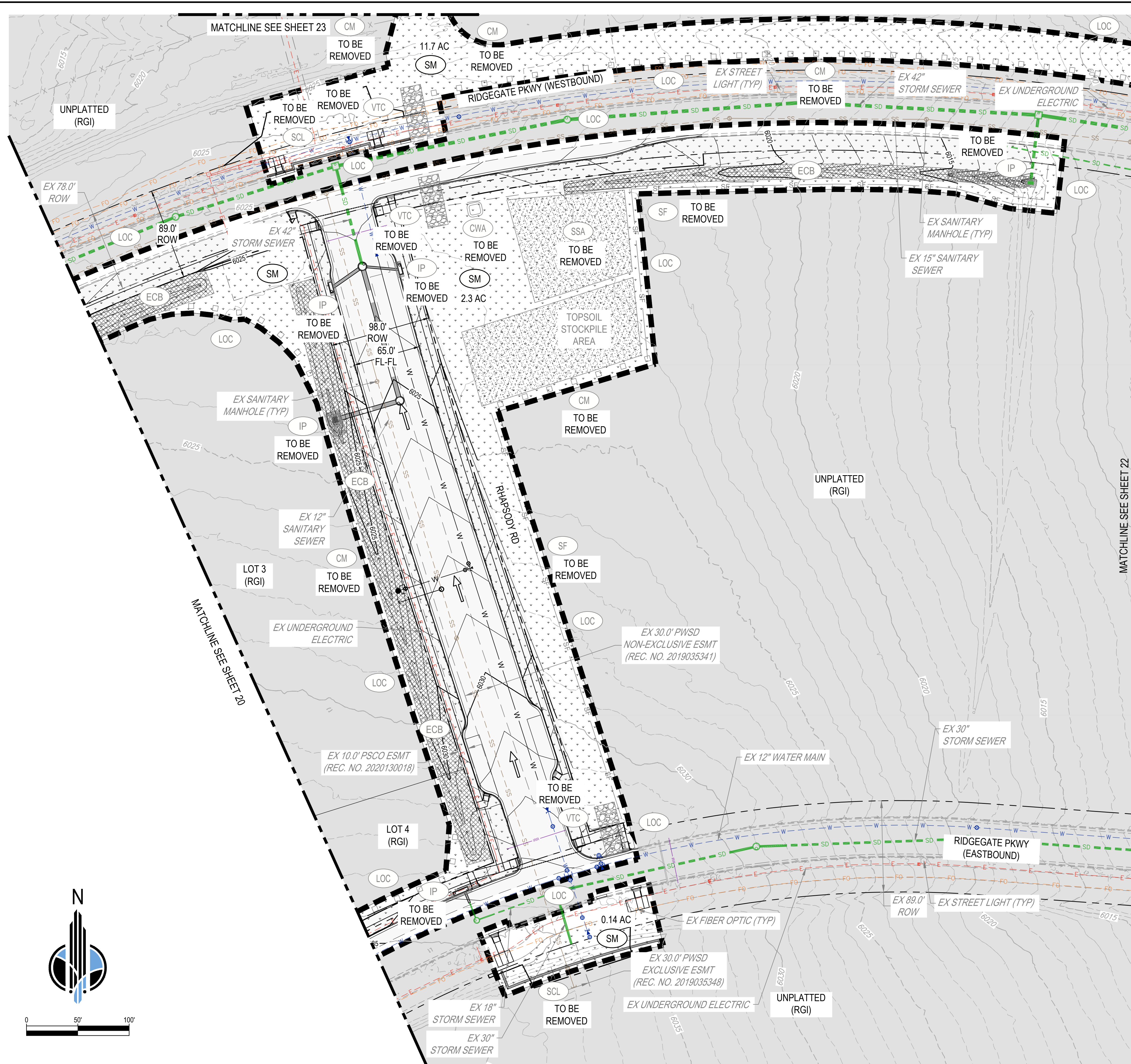
ISSUED FOR REVIEW

JOB NO.:	65121240
DATE:	7/13/2023
SHEET:	19 OF 26

FOR AND ON BEHALF OF MERRICK & COMPANY

THE CITY OF LONE TREE HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LONE TREE ORDINANCES AND LOCAL ORDINANCES. THE CITY OF LONE TREE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF LONE TREE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF LONE TREE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

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FINAL GESC NOTES

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BMP LEGEND

	INITIAL BMP		ROCK SOCK
	INTERIM BMP		SEDIMENT BASIN
	FINAL BMP		SEDIMENT CONTROL LOG
	CHECK DAM		SEDIMENT TRAP
	COMPOST BLANKET		SEEDING AND MULCHING
	COMPOST FILTER BERM		SILT FENCE
	CONCRETE WASHOUT AREA		STABILIZED STAGING AREA
	CONSTRUCTION FENCE		SURFACE ROUGHENING
	CONSTRUCTION MARKER		TEMPORARY SLOPE DRAIN
	DEWATERING		TEMPORARY STREAM CROSSING
	DIVERSION DITCH		TERRACING
	EROSION CONTROL BLANKET		VEHICLE TRACKING CONTROL
	INLET PROTECTION		VTC WITH WHEEL WASH
	REINFORCED CHECK DAM		LIMITS OF CONSTRUCTION
	REINFORCED ROCK BERM		CUT/FILL LIMITS
	RRB FOR CULVERT PROTECTION		



City of Lone Tree

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Engineering Division Acceptance Block



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RIDGEGATE EAST FILING NO. 3
GRADING, EROSION, AND
SEDIMENT CONTROL PLAN

FINAL GESC PLAN
EXHIBIT 5

JOB NO.: 65121240

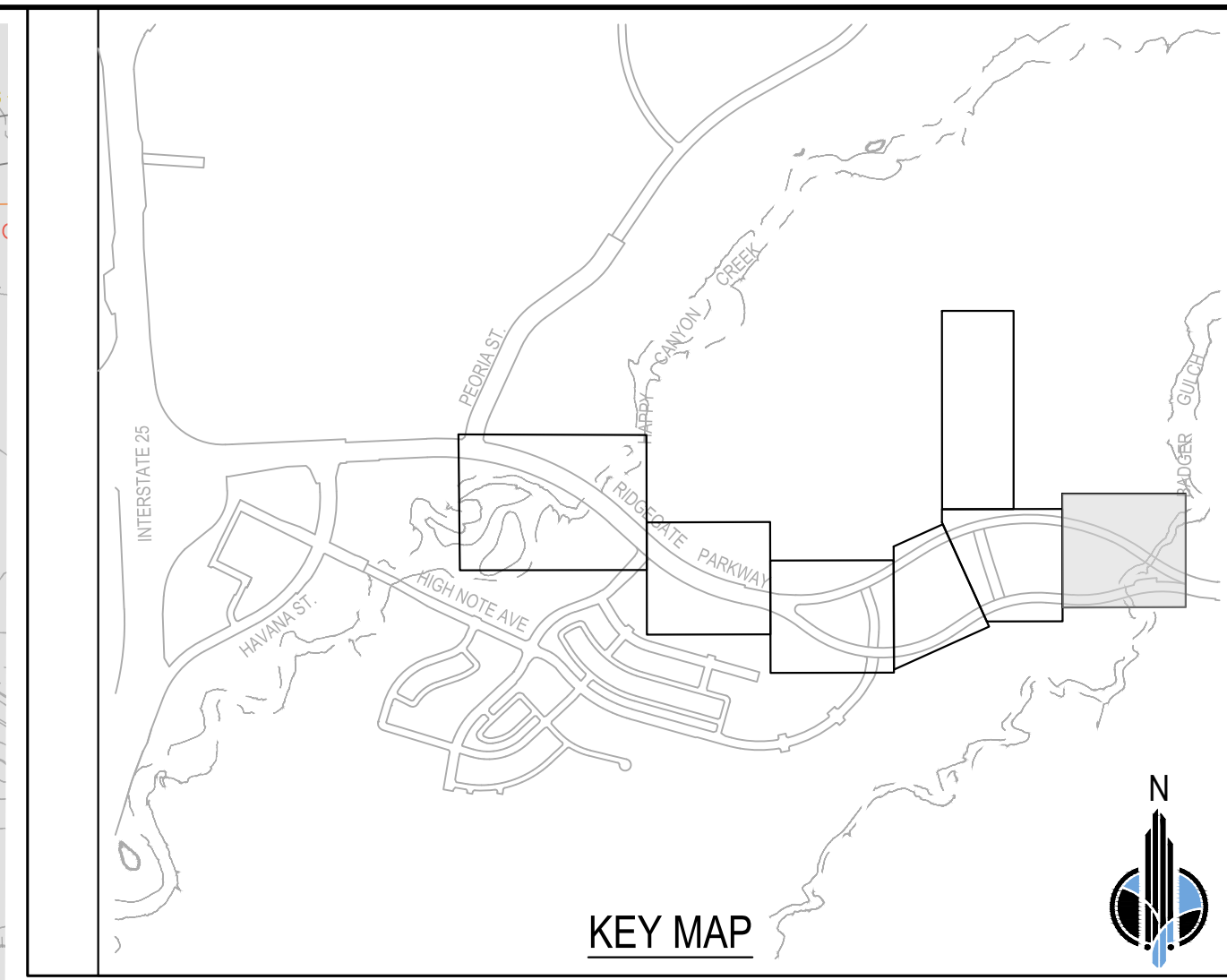
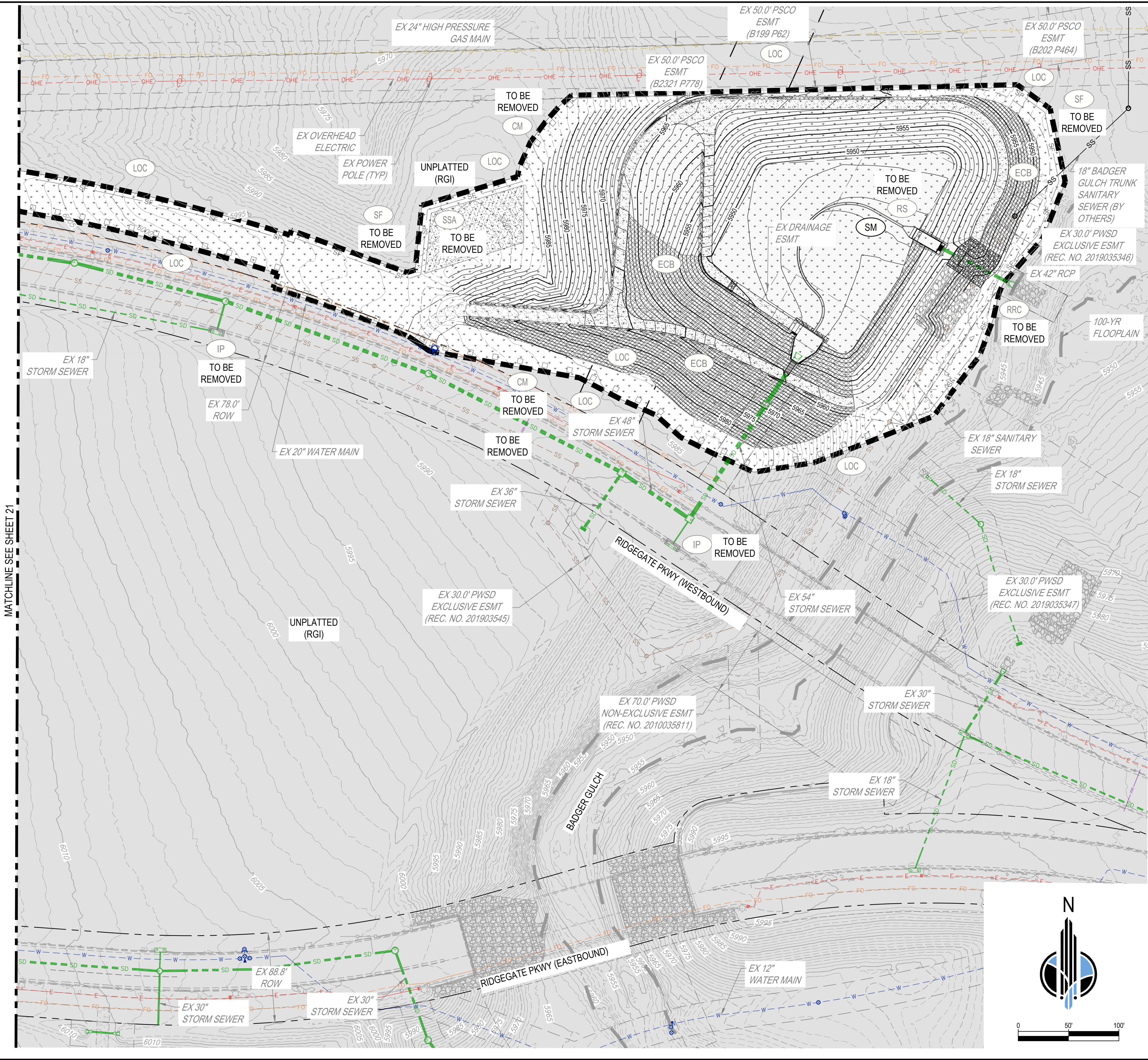
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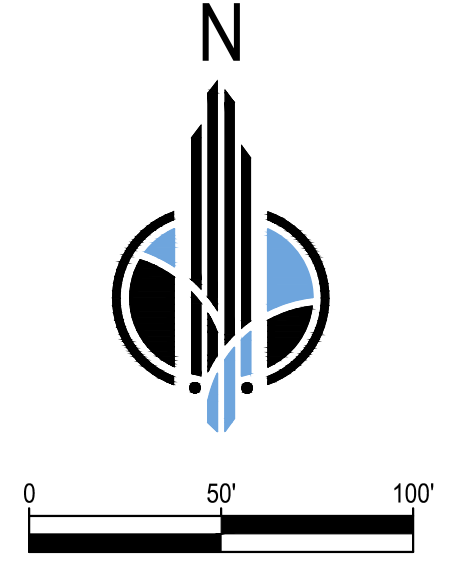


FINAL GESC NOTES

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BMP LEGEND

	INITIAL BMP		ROCK SOCK
	INTERIM BMP		SEDIMENT BASIN
	FINAL BMP		SEDIMENT CONTROL LOG
	CHECK DAM		SEDIMENT TRAP
	COMPOST BLANKET		SEEDING AND MULCHING
	COMPOST FILTER BERM		SILT FENCE
	CONCRETE WASHOUT AREA		STABILIZED STAGING AREA
	CONSTRUCTION FENCE		SURFACE ROUGHENING
	CONSTRUCTION MARKER		TEMPORARY SLOPE DRAIN
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	DIVERSION DITCH		TERRACING
	EROSION CONTROL BLANKET		VEHICLE TRACKING CONTROL
	INLET PROTECTION		VTC WITH WHEEL WASH
	REINFORCED CHECK DAM		LIMITS OF CONSTRUCTION
	REINFORCED ROCK BERM		CUT/FILL LIMITS
	RRC FOR CULVERT PROTECTION		



City of Lone Tree

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APPROVED BY:	CB				

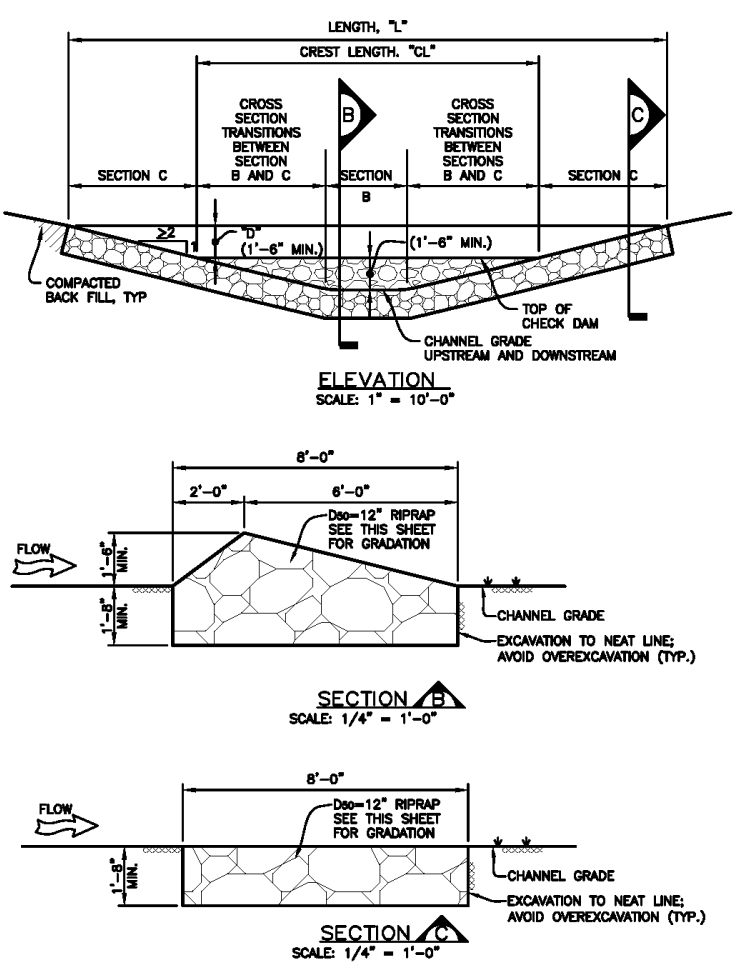
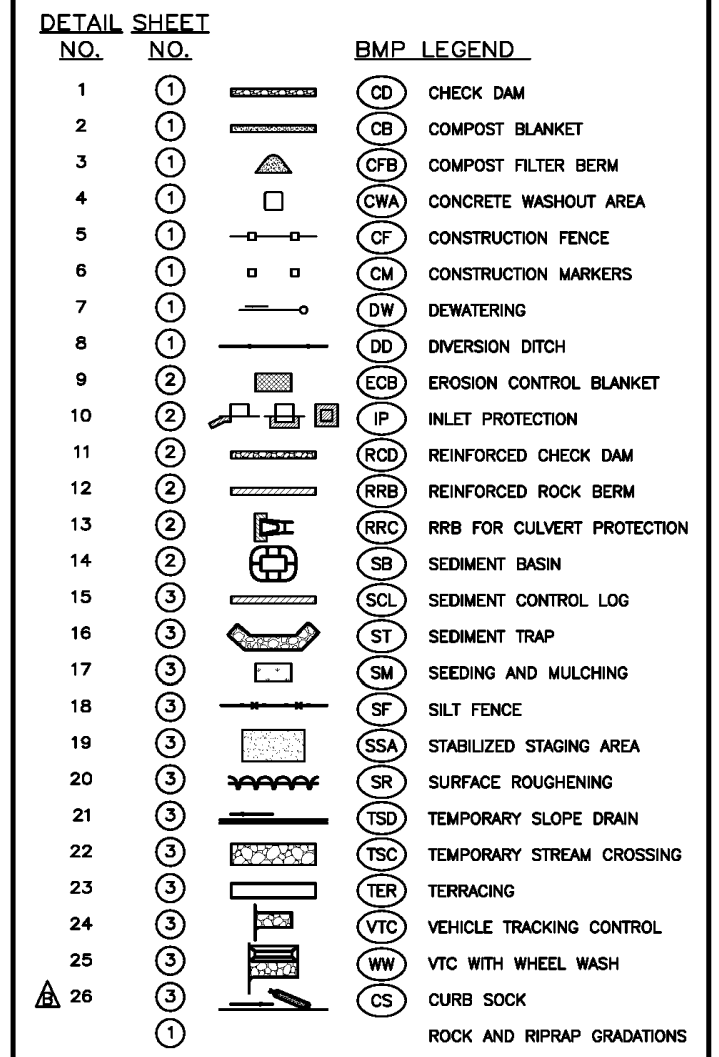
RIDGEGATE EAST FILING NO. 3
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN
 FINAL GESC PLAN
 EXHIBIT 6

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 22 OF 26

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY

GRADING, EROSION, AND SEDIMENT CONTROL (GESC) GENERAL NOTES

- THE CITY OF LONE TREE ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE CITY OF LONE TREE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE CITY OF LONE TREE SUBDIVISION REGULATIONS AND/OR THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL, THE CITY OF LONE TREE ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
- THE ADOPTION OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
- THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE CITY OF LONE TREE. AFTER WHICH THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF LONE TREE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF LONE TREE ENGINEERING DIVISION. THE CITY OF LONE TREE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.
- THE LOCATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IN ACCORDANCE WITH THE CITY OF LONE TREE - ACCEPTED GESC PLAN AND THE CITY OF LONE TREE GESC MANUAL.
- ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT BMPs FROM THE CITY OF LONE TREE - ACCEPTED GESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF THE CITY OF LONE TREE ENGINEERING DIVISION.
- AFTER THE GESC PLAN HAS BEEN ACCEPTED, THE GESC PERMIT APPLIED FOR, FEES AND FINANCIAL SECURITY SUBMITTED TO THE CITY AND THE GESC FIELD MANUAL OBTAINED AND REVIEWED, THE CONTRACTOR MAY INSTALL THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMPs INDICATED ON THE ACCEPTED GESC PLAN.
- THE FIRST BMP TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION, INCLUDING CONSTRUCTION LIMITS ADJACENT TO STREAM CORRIDORS AND OTHER AREAS TO BE PRESERVED.
- AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMPs, THE PERMITTEE SHALL CALL THE CITY OF LONE TREE CONSTRUCTION INSPECTOR AT (303) 662-8112 TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.
- THE OWNER OR OWNER'S REPRESENTATIVE, THE GESC MANAGER, THE GENERAL CONTRACTOR, AND THE GRADING SUBCONTRACTOR, IF DIFFERENT FROM THE GENERAL CONTRACTOR, MUST ATTEND THE PRECONSTRUCTION MEETING. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE GESC FIELD MANUAL IS NOT ON SITE, OR IF THE INSTALLATION OF THE INITIAL BMPs ARE NOT APPROVED BY THE CITY OF LONE TREE, THE PERMITTEE SHALL HAVE TO PAY A RECONSTRUCTION FEE. ADDRESS ANY PROBLEMS WITH BMP INSTALLATION, AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION. THE CITY OF LONE TREE STRONGLY ENCOURAGES THE APPLICANT TO HAVE THE ENGINEER OF RECORD AT THE PRECONSTRUCTION MEETING. FAILURE OF THE ENGINEER OF RECORD TO ATTEND MAY RESULT IN A DELAY OF THE START OF CONSTRUCTION.
- CONSTRUCTION SHALL NOT BEGIN UNTIL THE CITY OF LONE TREE GESC INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL BMPs AND THE APPROVED GESC PERMIT IS PICKED UP FROM THE CITY AND IS IN HAND ON THE SITE. THE COMPLETED PERMIT WILL BE AVAILABLE WITHIN 24-HOURS AFTER THE INSTALLATION OF THE INITIAL BMPs ARE APPROVED.
- THE GESC MANAGER SHALL STRICTLY ADHERE TO THE CITY OF LONE TREE - APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE CITY OF LONE TREE ENGINEERING DIVISION MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE ENGINEERING DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION.
- THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPLICABLE FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES OF 40 (OR 70) ACRES EACH. THE GESC PLAN SHALL BE REVISED TO SHOW CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN, BMP INSTALLATION AND APPROVAL BY THE CITY OF LONE TREE AT THE START AND COMPLETION OF EACH PHASE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GESC MANUAL AND/OR GESC FIELD MANUAL.
- PRIOR TO ACTUAL CONSTRUCTION, THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. FOR INFORMATION, CONTACT THE UTILITY INTER-UTILITY GROUP AT 1-800-922-1987 OR FAX AT (303) 534-0700.
- MINERAL VEGETATION SHALL BE IDENTIFIED AND PROTECTED. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
- THE GESC PERMIT SHALL BE VALID FOR A PERIOD OF ONE (1) YEAR, UNLESS EXTENDED.
- A COPY OF THE GESC PERMIT, APPROVED GESC PLANS AND THE GESC FIELD MANUAL SHALL BE ON SITE AT ALL TIMES.
- THE GESC MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE GESC PERMIT AND SHALL BE THE PERMITTEE'S CONTACT PERSON WITH THE CITY FOR ALL MATTERS PERTAINING TO THE GESC PERMIT. THE GESC MANAGER SHALL BE PRESENT AT THE SITE THROUGHOUT BUILD-OUT AND SHALL BE AVAILABLE THROUGH A 24-HOUR CONTACT NUMBER. IN THE EVENT THAT THE CONTRACTOR'S GESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION, THE ALTERNATE GESC MANAGER SHALL BE CONTACTED. IF NEITHER THE GESC MANAGER NOR ALTERNATE GESC MANAGER CAN BE CONTACTED DURING ANY VIOLATION, A STOP WORK ORDER SHALL BE ISSUED.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH THE CITY OF LONE TREE - APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL MAT IS REQUIRED AT ALL ACCESS POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE CITY OF LONE TREE ENGINEERING DIVISION.
- THE GESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS INCLUDING STREETS ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED, WITH A STREET SWEEPER OR SIMILAR DEVICE, AT FIRST NOTICE OF ACCIDENTAL TRACKING OR AT THE DISCRETION OF THE CITY OF LONE TREE GESC INSPECTOR. STREET WASHING IS NOT ALLOWED. THE CITY OF LONE TREE RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREAS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.
- APPROVED EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF CONSTRUCTION. ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE CITY OF LONE TREE SUBDIVISION REGULATIONS AND/OR THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL, THE CITY OF LONE TREE ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
- STRAW BALES ARE NOT A GESC-ACCEPTED SEDIMENT CONTROL BMP.
- TOPSOIL SHALL BE STORED AND COVERED IN THE LOCATION SHOWN ON THE ACCEPTED GESC PLAN. THE GESC MANAGER SHALL SCHEDULE AN INSPECTION WITH THE CITY OF LONE TREE GESC INSPECTOR AS SOON AS TOPSOIL STORAGE IS COMPLETED. THE CITY OF LONE TREE RESERVES THE RIGHT TO INSPECT OR FAILURE TO STOCKPILE TOPSOIL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER. THE STOP WORK ORDER SHALL REMAIN IN PLACE UNTIL TOPSOIL IS STOCKPILED ON SITE APPROPRIATELY AND AS STATED ABOVE.
- THE GESC PLAN MAY REQUIRE CHANGES OR ALTERATIONS AFTER APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS INEFFICIENCIES IN DESIGN OR INSTALLATION. THE GESC MANAGER SHALL OBTAIN PRE-APPROVAL FROM THE DESIGN ENGINEER AND THE CITY OF LONE TREE ENGINEERING FOR ANY PROPOSED CHANGES.
- LINING OF TEMPORARY SWALES AND DITCHES SHALL BE IN ACCORDANCE WITH THE GESC CRITERIA MANUAL.
- NO PERMANENT EARTH SLOPES GREATER THAN 3:1 SHALL BE ALLOWED.
- ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRY (30) DAYS SHALL BE SEEDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE CITY OF LONE TREE ENGINEERING DIVISION.
- ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY DULLES OR STORM DRAINS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COPEL PER CSR # 3-601, AND THE CITY OF LONE TREE. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 118) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE COPEL. THE APPLICABLE CONTACT INFORMATION (SEE APPENDIX A DOUGLAS COUNTY GESC MANUAL - SUBJECT TO CHANGE) IS COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT TOLL-FREE 24-HOUR ENVIRONMENTAL EMERGENCY SPILL REPORTING LINE 1-877-518-5608; NATIONAL RESPONSE CENTER (24-HOUR NATIONAL SPILL RESPONSE) 1-800-424-9302; CITY OF LONE TREE PUBLIC WORKS (303) 662-8112. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER.
- ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGE WAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED CITY OF LONE TREE GESC PLAN.
- ALL PROJECTS SHALL BALANCE EARTHWORK QUANTITIES ON SITE. IN THE EVENT A VARIANCE IS GRANTED BY THE CITY ENGINEER TO ALLOW IMPORT OR EXPORT OF MATERIAL, THE PERMITTEE SHALL HAVE A GESC PERMIT IN HAND FOR THE IMPORT OR EXPORT SITE PRIOR TO ANY TRANSPORTING OF EARTHEN MATERIAL. THE GESC MANAGER SHALL NOTIFY THE CITY OF LONE TREE GESC INSPECTOR OF THE LOCATION AND GESC PERMIT NUMBERS OF BOTH THE EXPORTING AND IMPORTING SITES PRIOR TO ANY IMPORT/EXPORT OPERATIONS.
- THE USE OF REBAR, STEEL STAGES OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR SEDIMENT CONTROL BMP IS PROHIBITED EXCEPT FENCE, TEE-POSTS FOR USE IN SUPPORTING CONSTRUCTION FENCES.
- THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS PROHIBITED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE LOW SIDE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCATION OFF SITE.
- ALL DISTURBED ON SITE SHALL BE COORDINATED WITH A CITY OF LONE TREE GESC INSPECTOR AND BE FREE OF SEDIMENT AT THE END OF CONSTRUCTION WITH THE GESC CRITERIA MANUAL.
- ALL PERMANENT INSTALLATIONS OF PIPES FOR STORM SEWERS, SLOPE DRAINS, AND CULVERTS, TOGETHER WITH RIPRAP ARCHES OR OTHER INLET AND OUTLET PROTECTION, REQUIRE INSPECTION BY THE CITY OF LONE TREE ENGINEERING (SEPARATE FROM GESC INSPECTIONS).
- ALL DISTURBED AREAS SHALL BE DRILL SEEDED AND CRIMP MULCHED IN ACCORDANCE WITH THE DOUGLAS COUNTY GESC MANUAL, CRITERIA AND THE CITY OF LONE TREE SEEDING AND MULCHING DETAIL (G17) INCLUDED HEREIN. WITHIN THIRTY DAYS OF INITIAL EXPOSURE OR WITHIN SEVEN DAYS OF SUBSTANTIAL COMPLETION (AS DEFINED BY THE CITY OF LONE TREE) OF AN AREA, WHOEVER IS LESS, THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
- HYDRAULIC SEEDING AND HYDRAULIC MULCHING ARE NOT AN ACCEPTABLE METHOD OF SEEDING OR MULCHING IN THE CITY OF LONE TREE.
- NO CURB AND GUTTER PERMITS SHALL BE ISSUED UNTIL ALL DISTURBED AREAS ARE DRILL SEEDED AND CRIMP MULCHED.
- NO PAVING PERMITS SHALL BE ISSUED UNTIL ALL INTERIM INLET PROTECTION IS INSTALLED AND APPROVED BY THE GESC INSPECTOR.
- A FINAL GESC INSPECTION SHALL BE CONDUCTED A MINIMUM OF TWO WEEKS PRIOR TO THE ANTICIPATED REQUEST FOR CERTIFICATE OF TEMPORARY CERTIFICATE OF OCCUPANCY OR INITIAL ACCEPTANCE.



COMPOST BLANKET NOTES:

- SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
- MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT DUE TO UNDERGROUND OR OTHER OBSTACLES OR IN AREAS WHERE A SOFTER TRAFFIC SURFACE IS DESIRED.
- SMALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; THESE CONDITIONS PRIOR TO APPLICATION.
- SOIL PREPARATION SHALL BE COMPLETE FOR THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
- WHEN TUFFE GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCHES.
- MAY BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
- COMPOST FILTER BERMS SHALL BE INSTALLED ON SLOPES WITH A MINIMUM STABILIZATION OF 15 FEET PRIOR TO THE INSTALLATION OF THE COMPOST FILTER BERM SECTION.
- THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

COMPOST FILTER BERMS NOTES:

- SEE PLAN VIEW FOR LENGTH OF COMPOST FILTER BERM.
- SHALL BE APPLIED TO ALL SLOPES RECEIVING A COMPOST BLANKET AT 15' INTERVALS.
- FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR.
- FILTER BERMS SHALL BE A MINIMUM OF 1' H x 2' W.
- FILTER BERMS SHALL BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
- SMALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; THESE CONDITIONS PRIOR TO APPLICATION.
- SOIL PREPARATION SHALL BE COMPLETE FOR THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
- WHEN TUFFE GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO APPLICATION.
- SECOND SHALL BE APPLIED BEFORE THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
- THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.
- COMPOST USED IN THE APPLICATION OF THE COMPOST FILTER BERMS SHALL BE A CLASS 1 COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:

PARAMETER	CLASS 1 COMPOST FOR COMPOST BLANKET	CLASS 1 COMPOST FOR COMPOST FILTER BERM
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE	STABLE TO VERY STABLE
SOIL SOLS	2.0 - 10.0	4.0 - 8.0
PH	5.5 - 7.5	5.5 - 7.5
CEC	10.0	10.0
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF COMPOSTATION	80%/80+	80%/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA-NITROGEN (N)	< 4	< 4
MATURITY INDICATOR EXPRESSED AS AMMONIA-NITROGEN (N)	20:1	20:1
TESTED FOR COLIFORMS	YES/NEGATIVE RESULT	YES/NEGATIVE RESULT
ORGANIC MATTER CONTENT	30-45 %	30-45 %
MOISTURE CONTENT	40-60 %	40-60 %
PRIMARY SECONDARY NUTRIENTS, TRACE ELEMENTS	SEE DETAIL 9	SEE DETAIL 9
CHEMICAL CONTAMINANTS	MUST REPORT	MUST REPORT
HEAVY METALS PER CDC WHO REQUIREMENT	MUST REPORT	MUST REPORT
CHEMICAL CONTAMINANTS	MUST REPORT	MUST REPORT
HEAVY METALS PER CDC WHO REQUIREMENT	MUST REPORT	MUST REPORT
RISK FACTOR RELATING TO PLANT GROWTH AND DEVELOPMENT	LOW	LOW
RISK FACTOR RELATING TO PLANT GROWTH AND DEVELOPMENT	LOW	LOW

NOTE: IF A BIOLOGICAL COMPOST IS TO BE UTILIZED IT SHALL BE PRODUCED BY A FACILITY IN POSSESSION OF A 15 DAY PERMIT FOR THE UNRESTRICTED USE OF THE COMPOST. THE DISTRIBUTION OF THE COMPOST DURING CONSTRUCTION OF PUBLIC HEALTH AND ENVIRONMENT. THE MSA MUST BE PROVIDED TO THE CITY OF LONE TREE. THE CITY OF LONE TREE SHALL BE NOTIFIED UPON RECEIPT BY THE CITY OF LONE TREE.

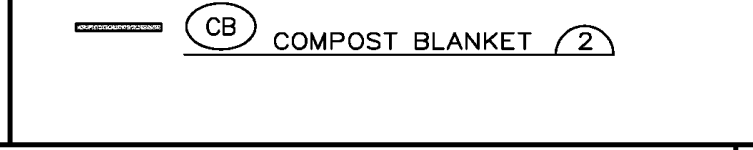
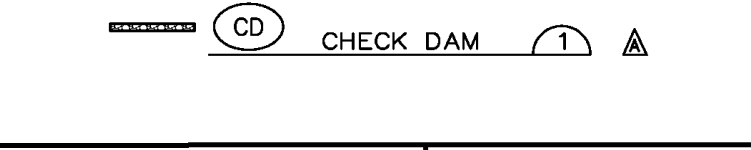
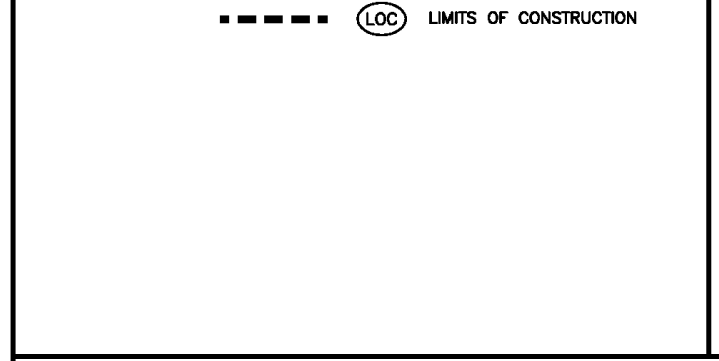
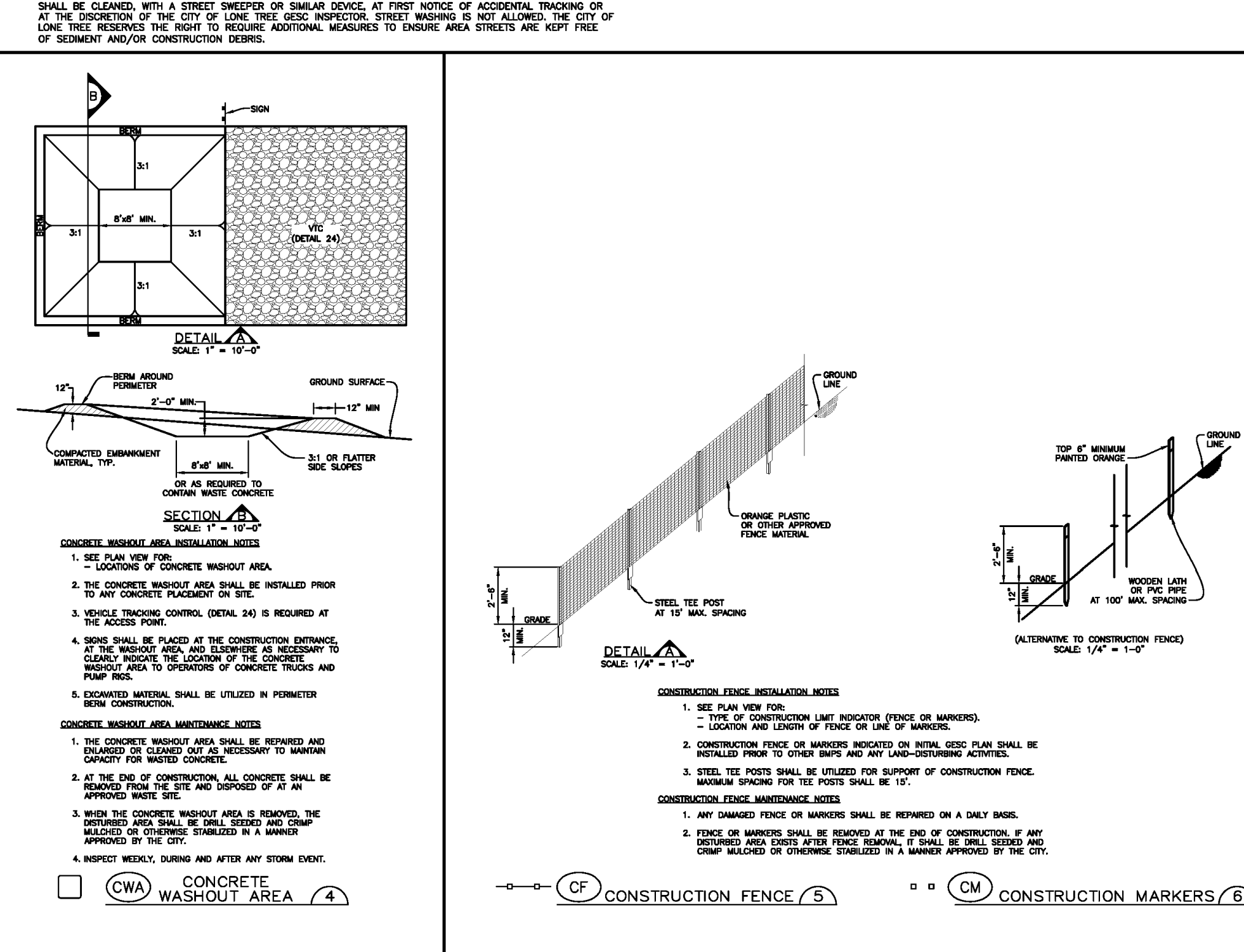


TABLE 1. RIPRAP GRADATIONS

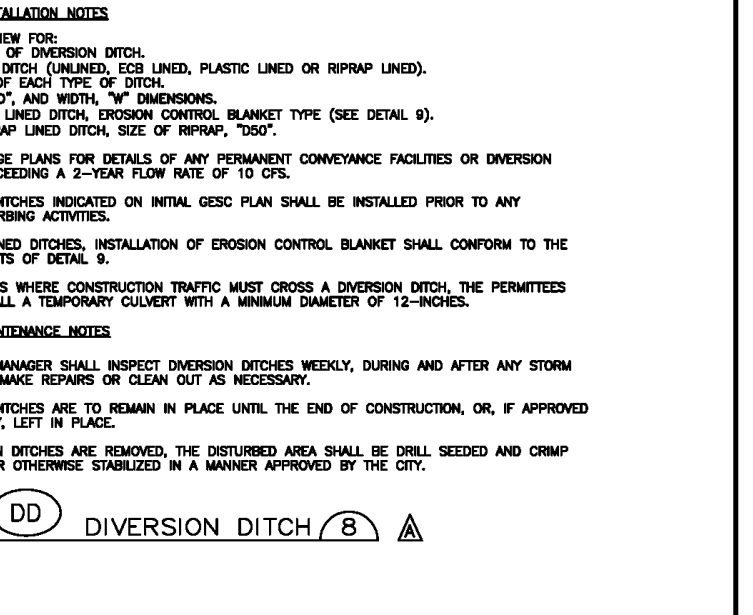
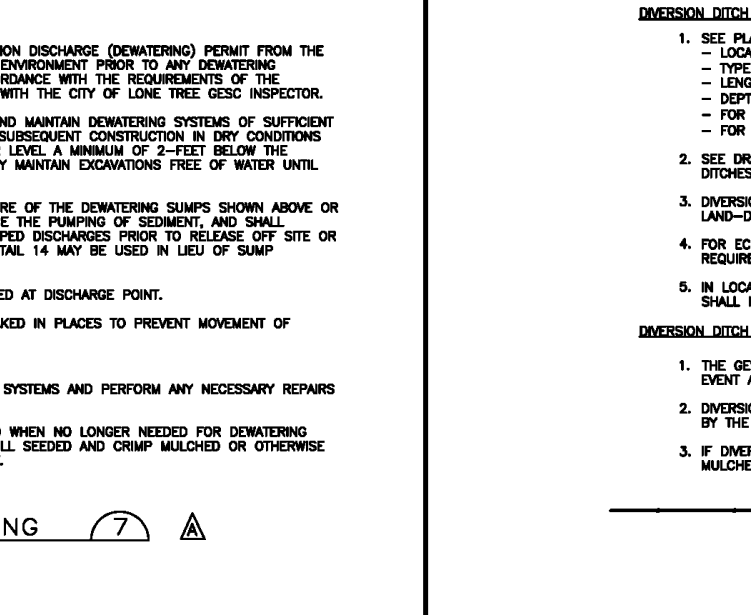
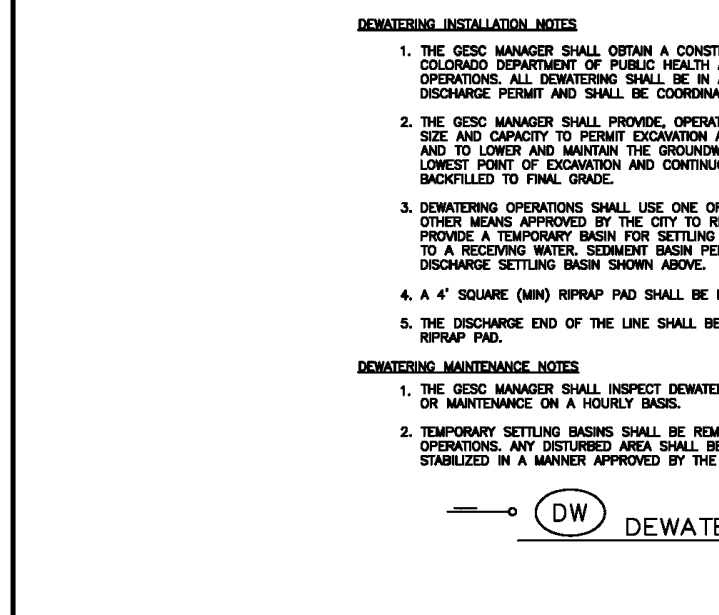
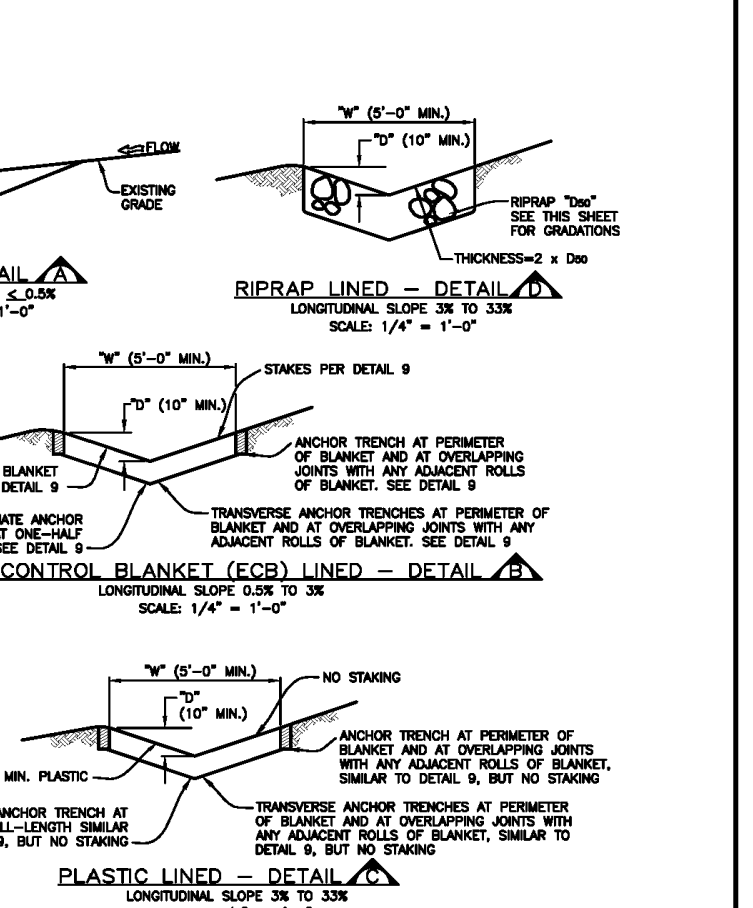
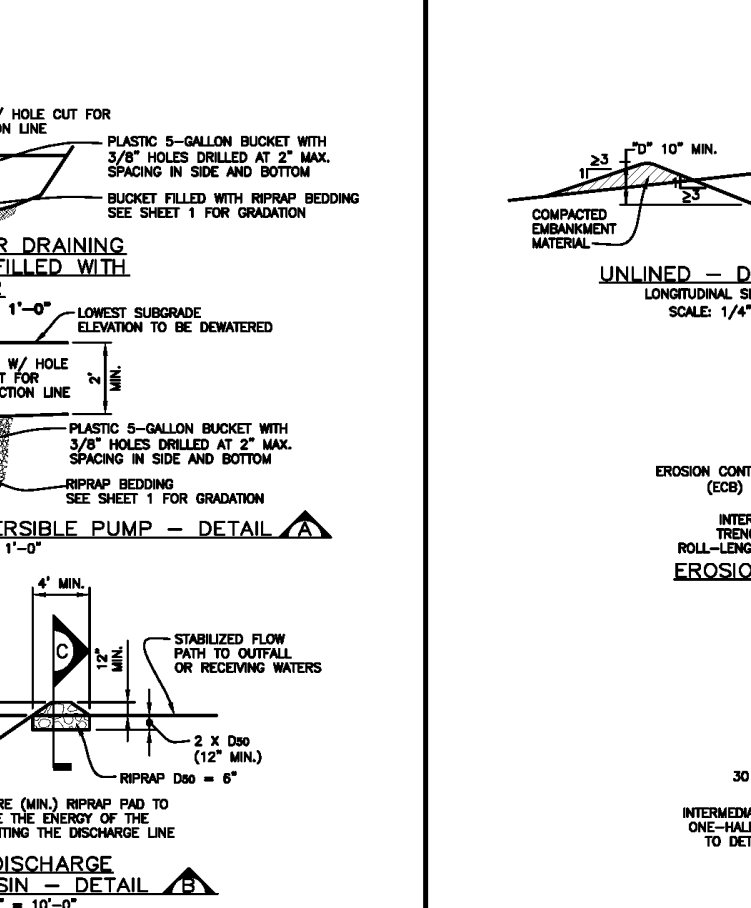
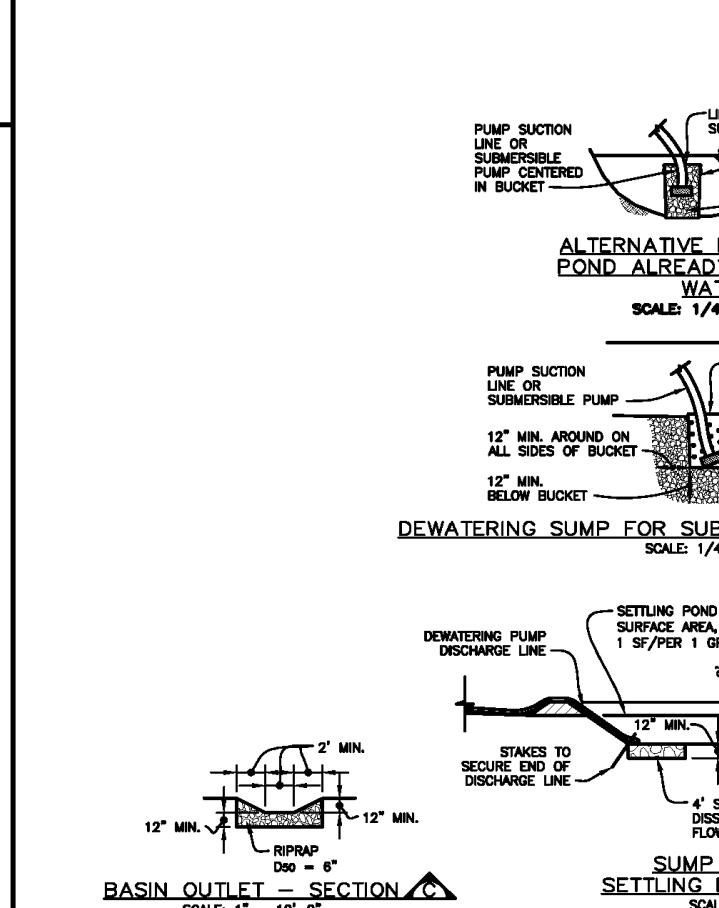
DESIGN SPEED (MPH)	% OF MATERIAL PASSED THROUGH TYPICAL STONE	TYPICAL STONE DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)
6	100% 1/8" - 1/4"	12	85
9	100% 1/4" - 3/8"	18	180
12	100% 3/8" - 1/2"	24	270
18	100% 1/2" - 3/4"	30	405
24	100% 3/4" - 1"	36	480

TABLE 2. RIPRAP BEDDING

STONE SIZE	MINIMUM PERCENT PASSING SQUARE MESH SIZE
3"	100
1 1/2"	20 - 80
3/4"	0 - 20
3/8"	0 - 3

TABLE 3. 1 1/2" CRUSHED ROCK

STONE SIZE	MINIMUM PERCENT PASSING SQUARE MESH SIZE
1 1/2"	100
3/4"	20 - 80
3/8"	0 - 15
3/16"	0 - 5



Sheet Revisions

NO.	DATE	DESCRIPTION	BY
6/30/05		ADOPTED FROM DOUGLAS COUNTY GESC PLANS	MLP
5/ /08		EDIT UPDATES	GAW
11/ /08		ADD CURB SOCK DETAIL (REF. UDFC, V3 FIGURE CS-23), MISC. NOTE EDITS	GAW

NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

GESC PLAN GRADING, EROSION, AND SEDIMENT CONTROL

STANDARD NOTES AND DETAILS

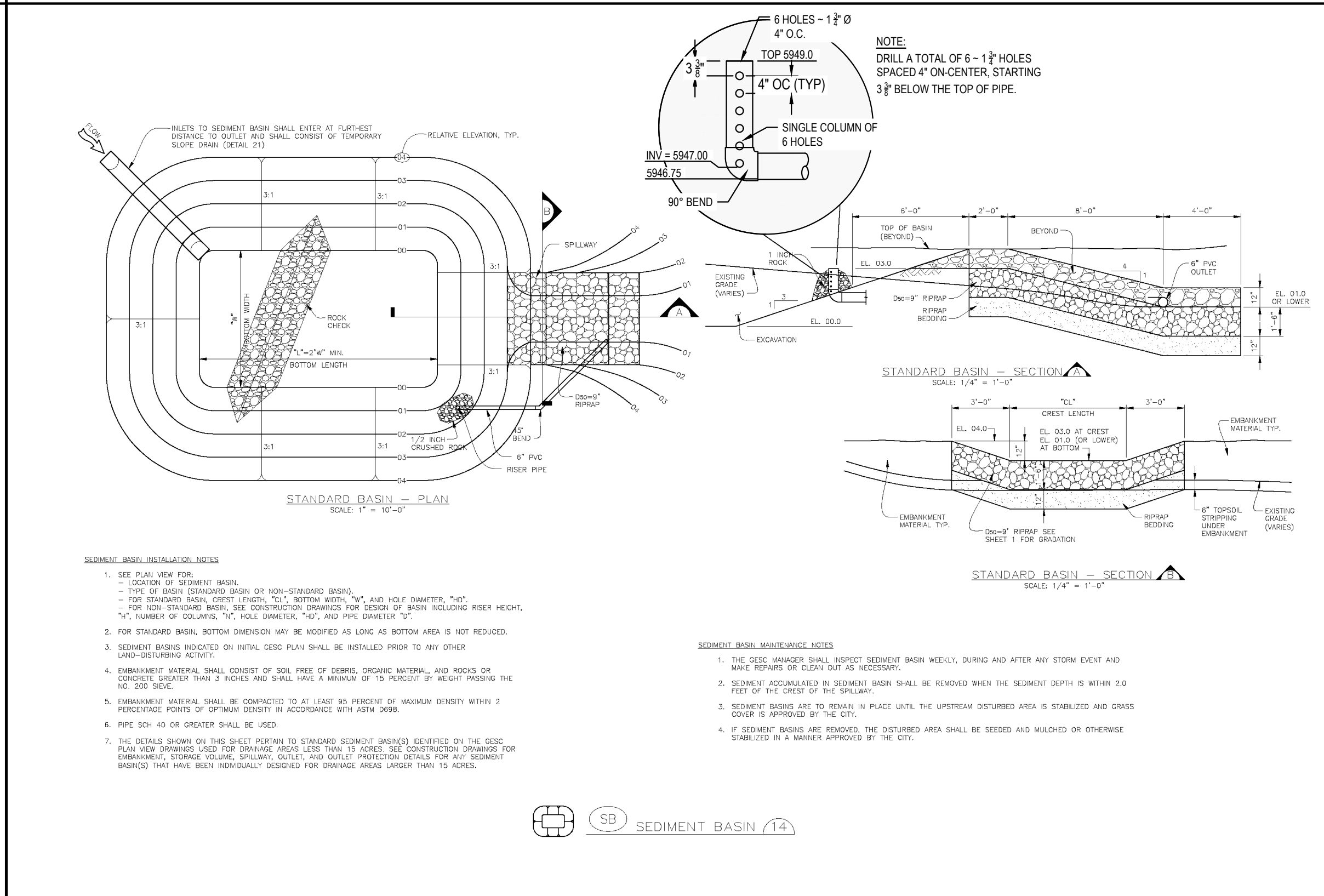
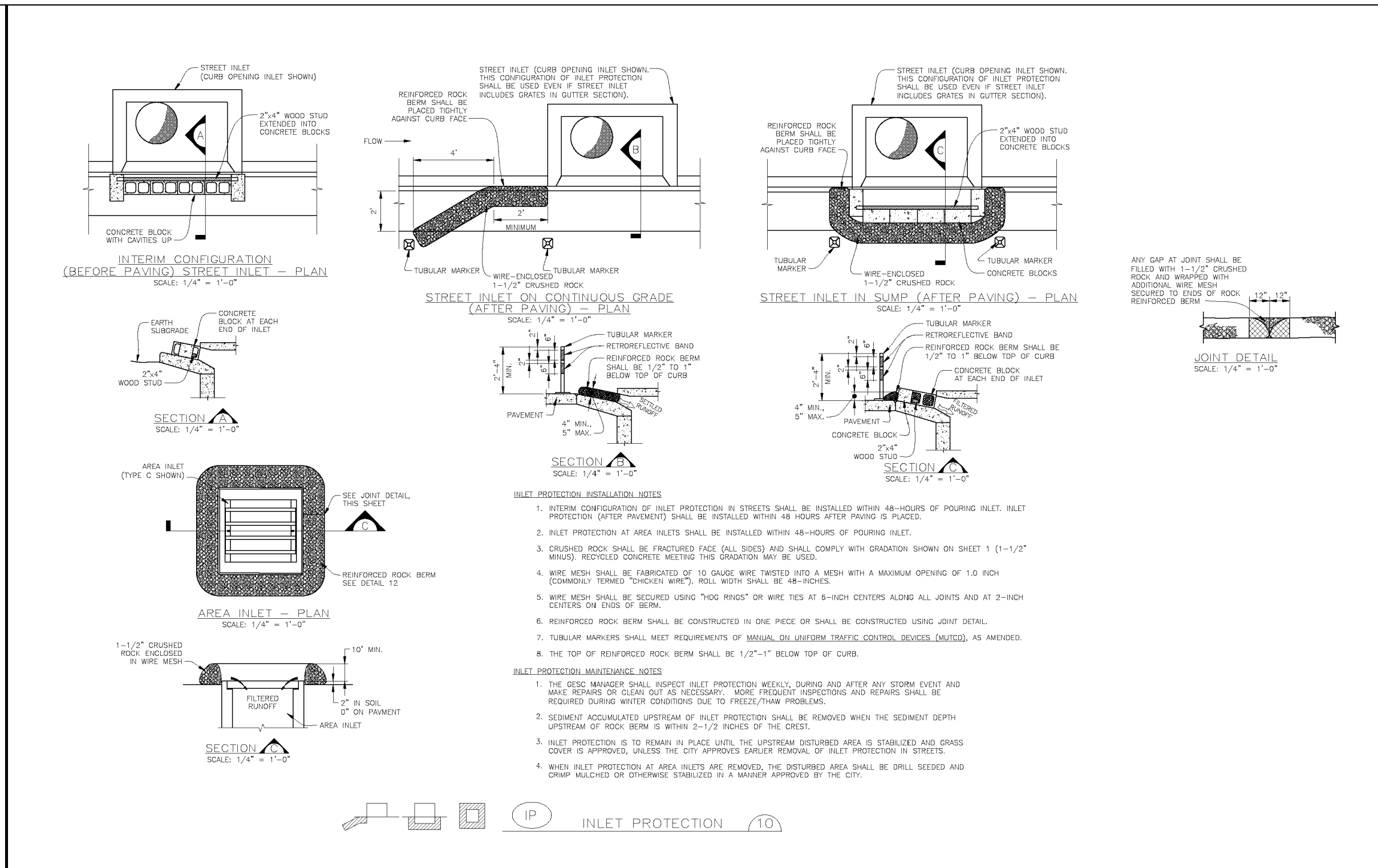
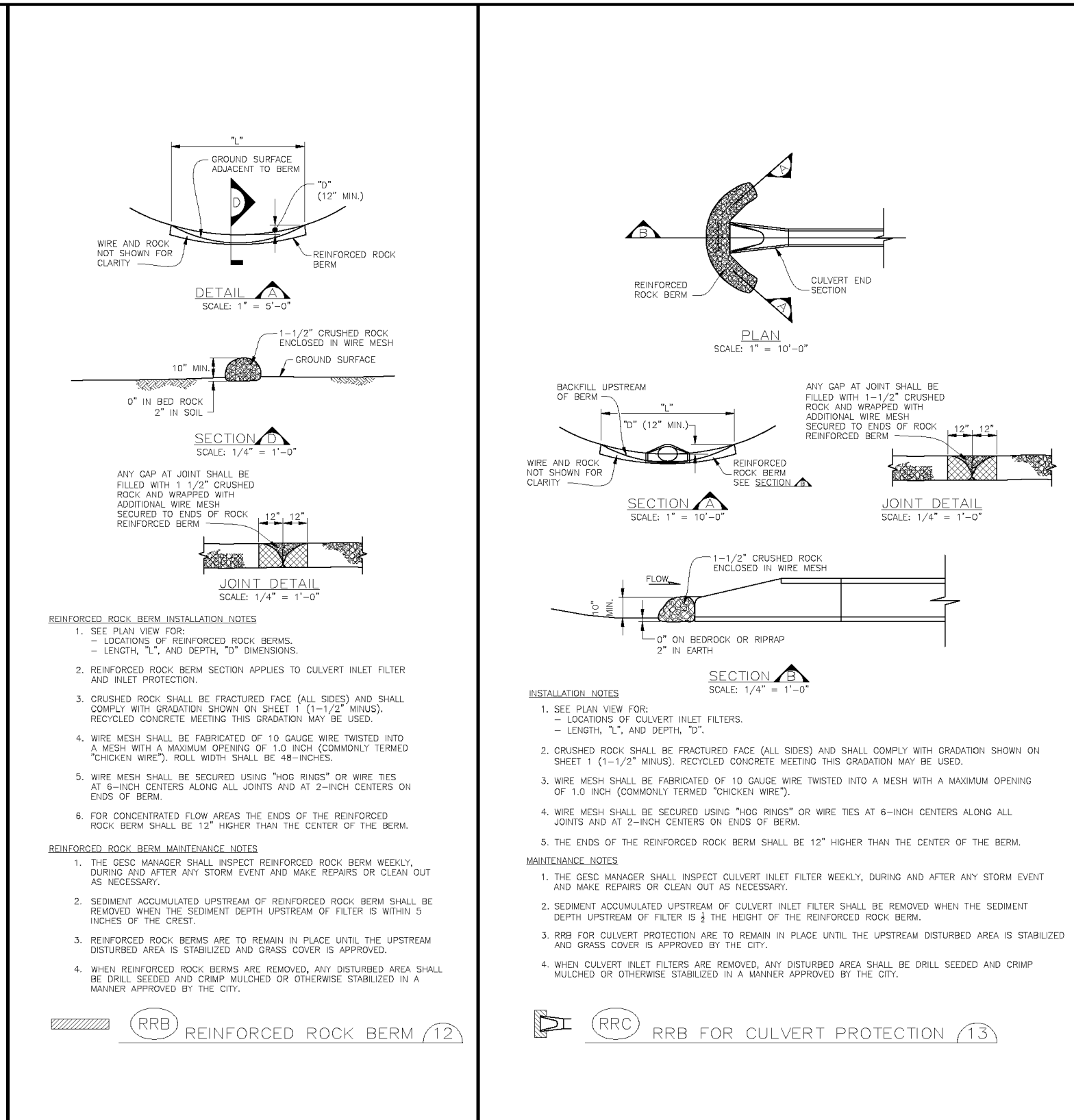
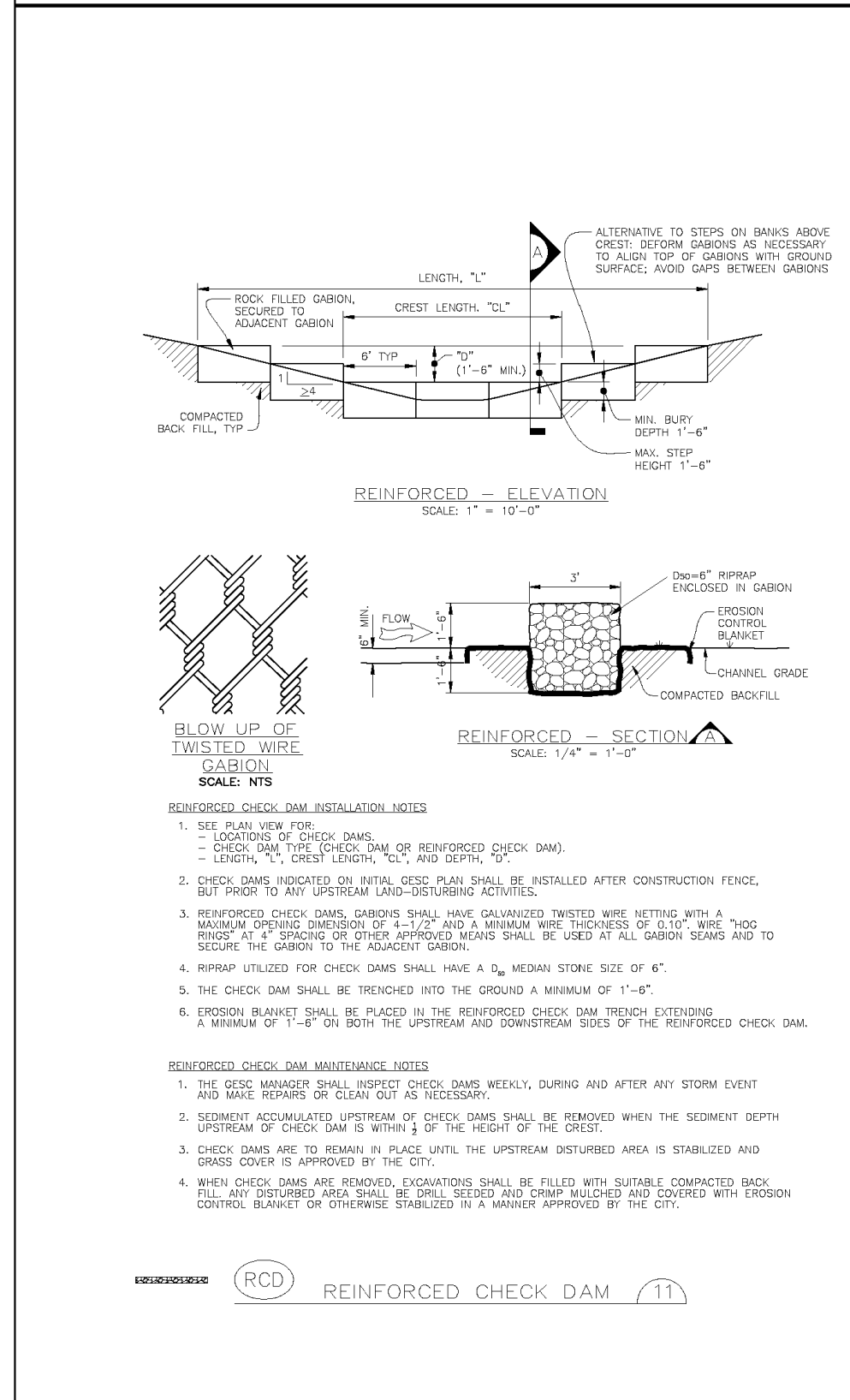
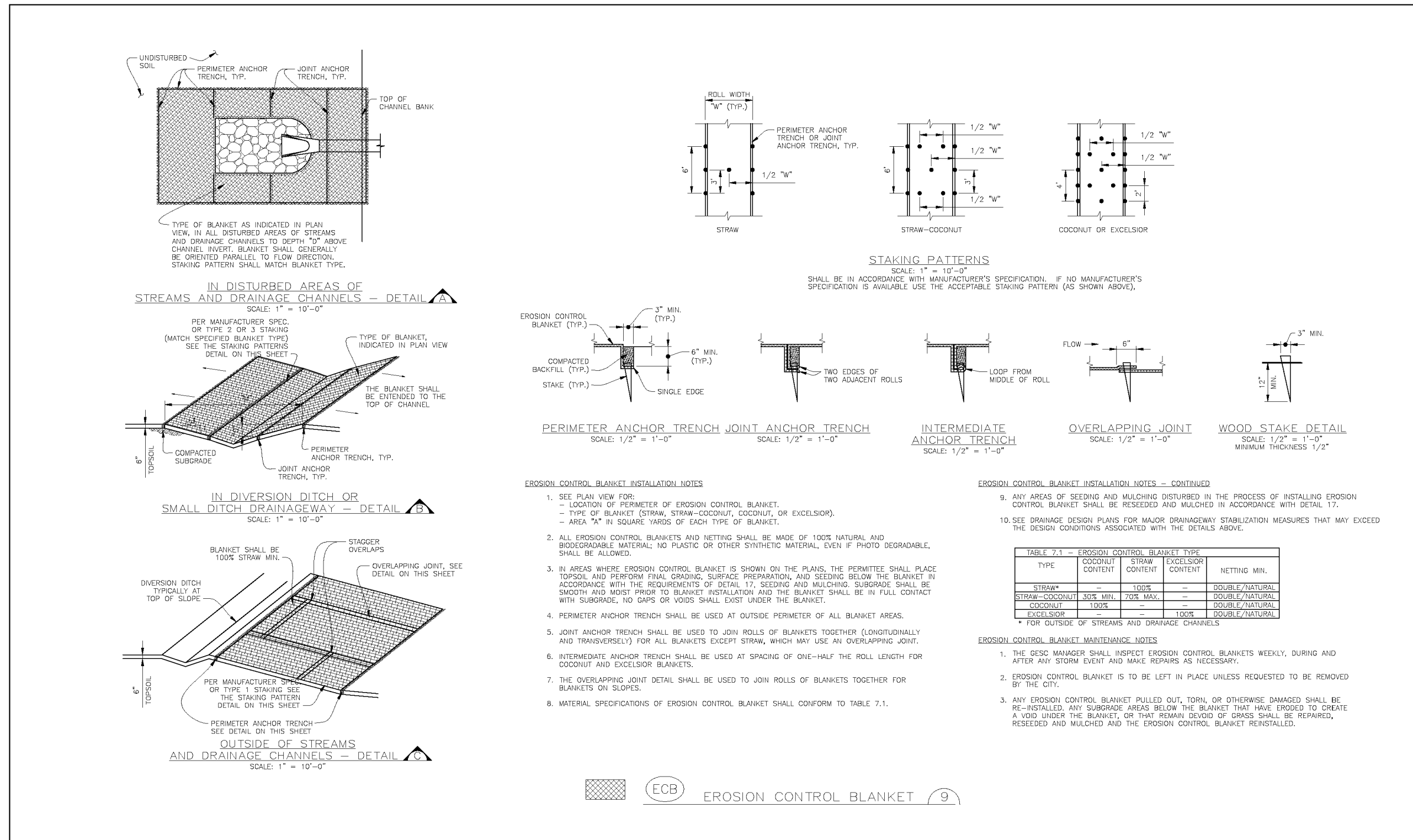
JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 24 OF 26

RIDGEGATE EAST FILING NO. 3
GRADING, EROSION, AND SEDIMENT CONTROL PLAN
CITY OF LONE TREE
GESC DETAIL 1

DESIGN BY: CD
DRAWN BY: NB
CHECKED BY: CB
APPROVED BY: CB

REV. REVISION DESCRIPTION
DATE
DRAWN/CHKD/APPR

THE USE OF ANY OTHER EROSION CONTROL MEASURES IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, INC. A REVIEW OF ANY OTHER EROSION CONTROL MEASURES IS NOT GUARANTEED. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY OTHER EROSION CONTROL MEASURES. MERRICK AND COMPANY, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY OTHER EROSION CONTROL MEASURES. MERRICK AND COMPANY, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY OTHER EROSION CONTROL MEASURES.



Sheet Revisions		NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.
6/30/05	ADOPTED FROM DOUGLAS COUNTY GESC PLANS	
5/ /08	EDIT UPDATES	
11/ /08	ADD CURB SOCK DETAIL (REF UDFCD, V3 FIGURE C5-23), MISC. NOTE EDITS	

CITY OF LONE TREE
DEPARTMENT OF PUBLIC WORKS
Engineering Division

GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS

SHEET 2 OF 3

JOB NO.:	65121240	DATE:	7/13/2023	SHEET:	25 OF 26
DESIGN BY:		DRAWN BY:		CHECKED BY:	
APPROVED BY:		DATE:		REV. REVISION DESCRIPTION	
RIDGEGATE EAST FILING NO. 3		CITY OF LONE TREE		GESC DETAIL 2	
GRADING, EROSION, AND SEDIMENT CONTROL PLAN		ISSUED FOR REVIEW		FOR AND ON BEHALF OF MERRICK & COMPANY	

MERRICK
Engineering/Architecture/Design/Build/Surveying/Planning/Construction Solutions
5970 GREENWOOD PLAZA BLVD. GREENWOOD VILLAGE, CO. 80111
303-751-0741
www.merrick.com

