

KEYMAP  
SCALE: 1"=1000'

- NOTES:**
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  2. SEE SHEET 39 FOR STANDARD GESC NOTES.
  3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  6. CONSTRUCTION MARKERS TO BE PLACED 100' APART.
  7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ON-SITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

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

ORIGINAL SCALE: 1" = 60'

BY	DATE	NO.	REVISION

**ENGINEER'S STATEMENT**  
PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

DATE: \_\_\_\_\_

**PROFESSIONAL ENGINEER**  
36742

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B INTERIM GESC  
PLAN

SHEET 11 OF 41  
JOB NO. 15950.01

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE AS DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LOVE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

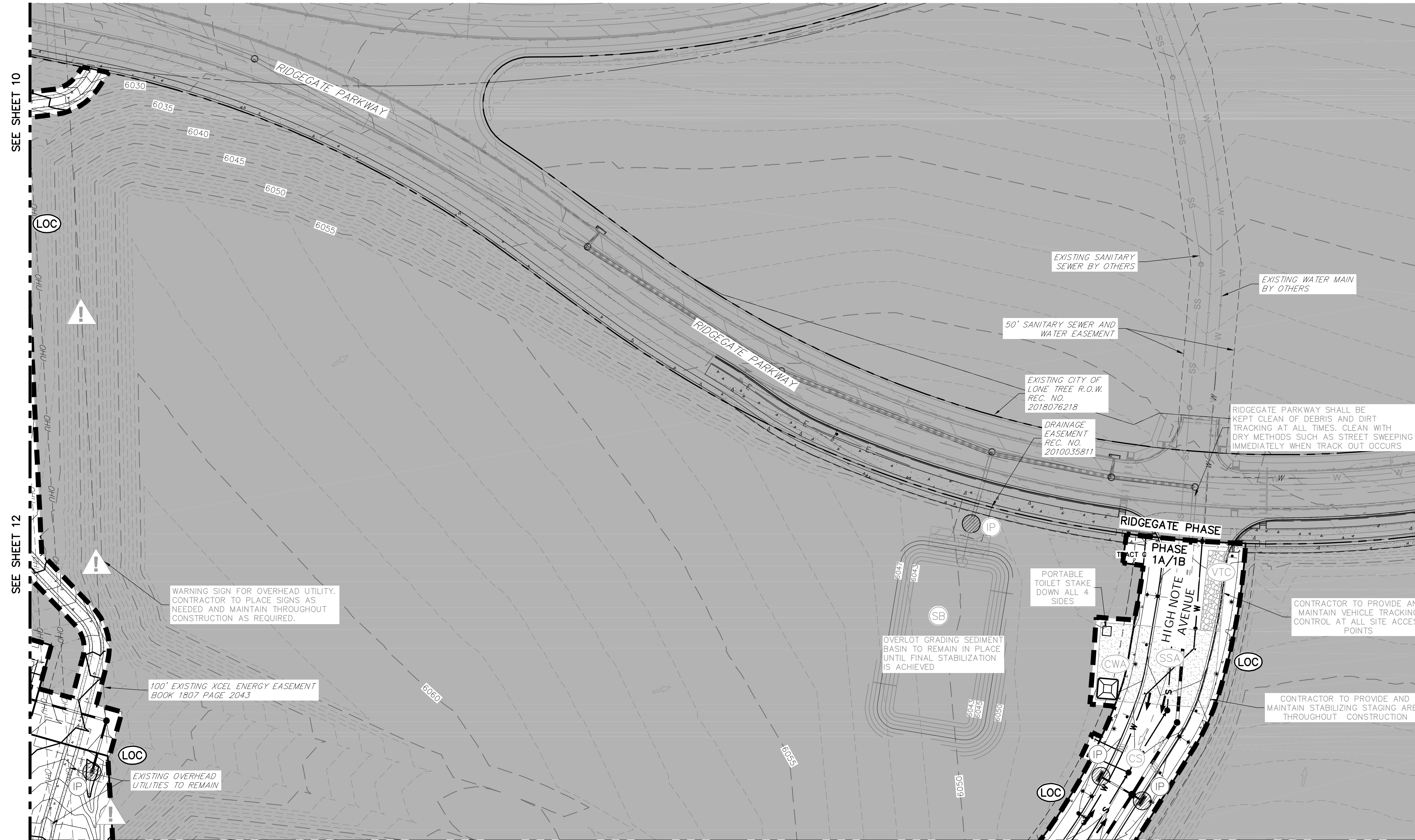
BY	DATE	NO.	REVISION

EXISTING 100-YR FLOODPLAIN  
MAP NO. 0803SC0063H  
REVISED: SEPTEMBER 4, 2020





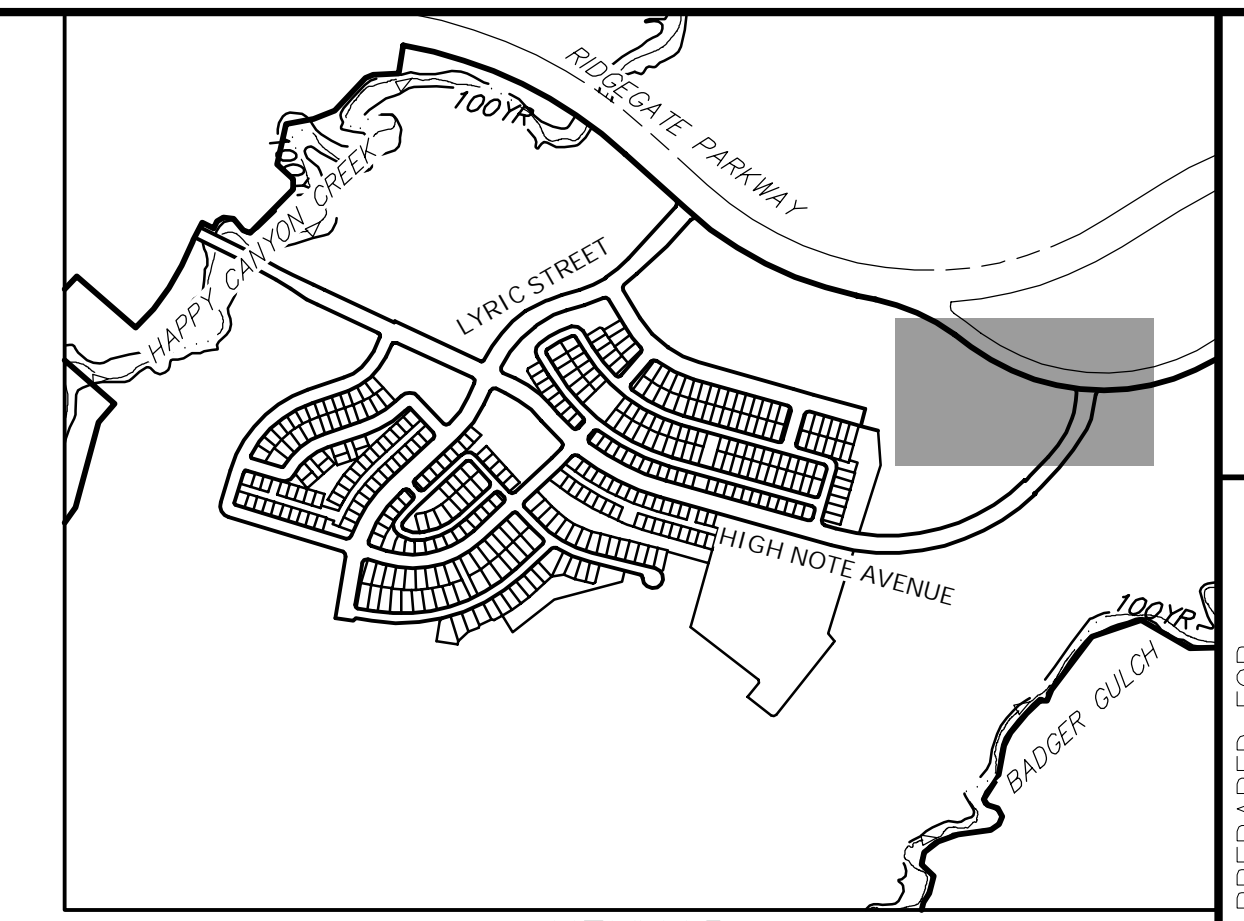




SEE SHEET 10

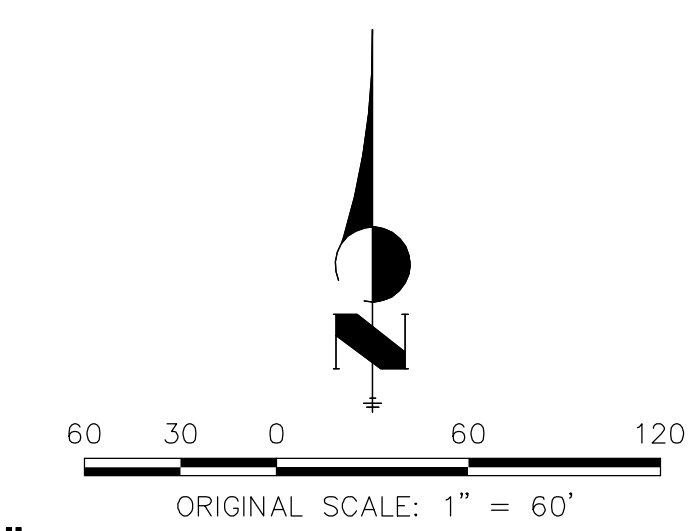
SEE SHEET 12

SEE SHEET 14



KEYMAP  
SCALE: 1"=1000'

- NOTES:**
- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  - SEE SHEET 39 FOR STANDARD GESC NOTES.
  - SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  - CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  - NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  - CONSTRUCTION MARKERS TO BE PLACED 100' APART
  - CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westrian Company  
Centennial 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION

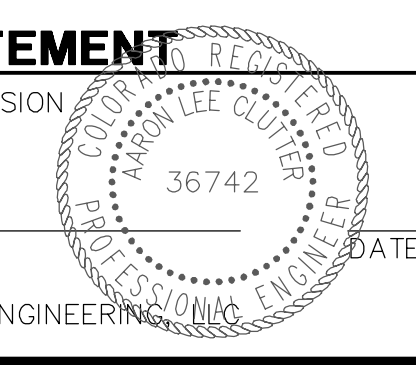
RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B INTERIM GESC  
PLAN

SHEET 13 OF 41  
JOB NO. 15950.01

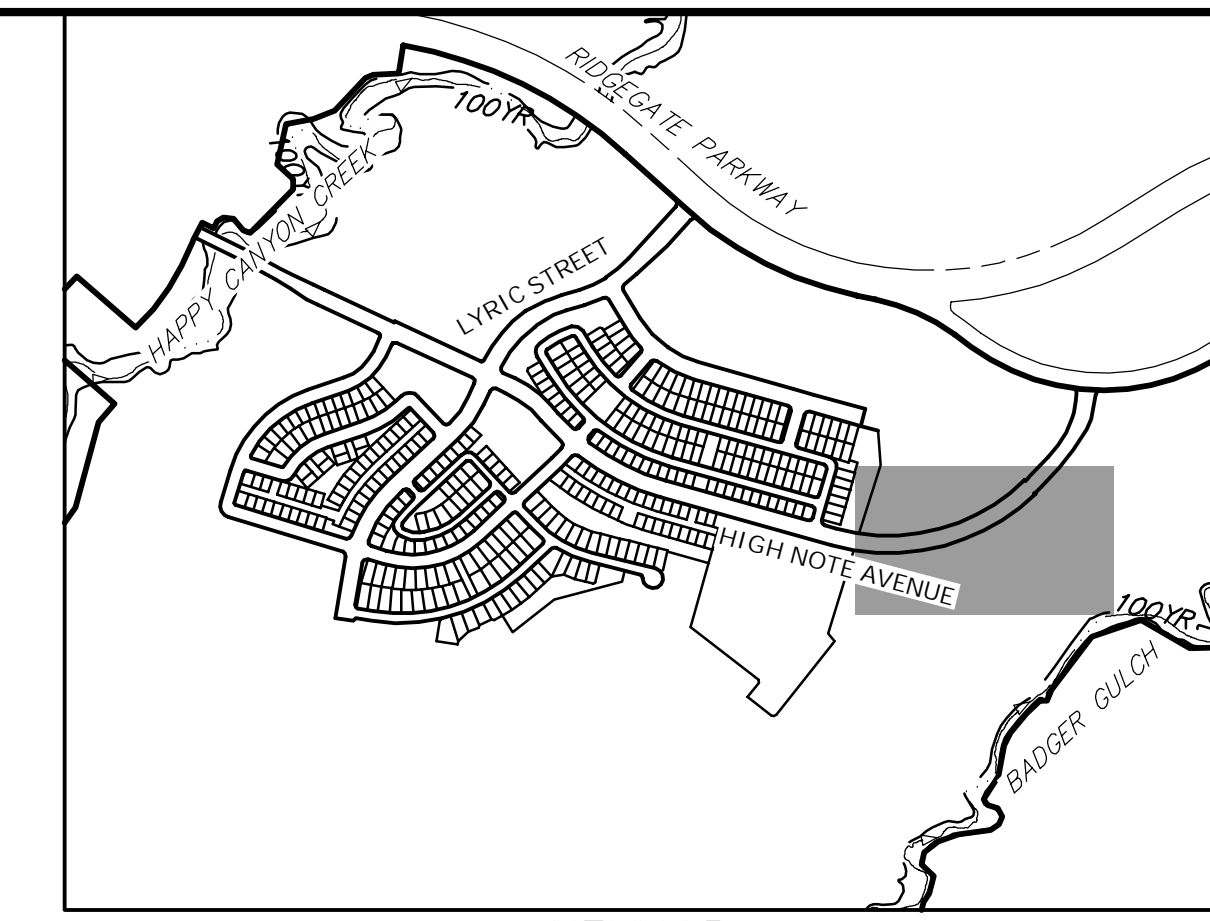
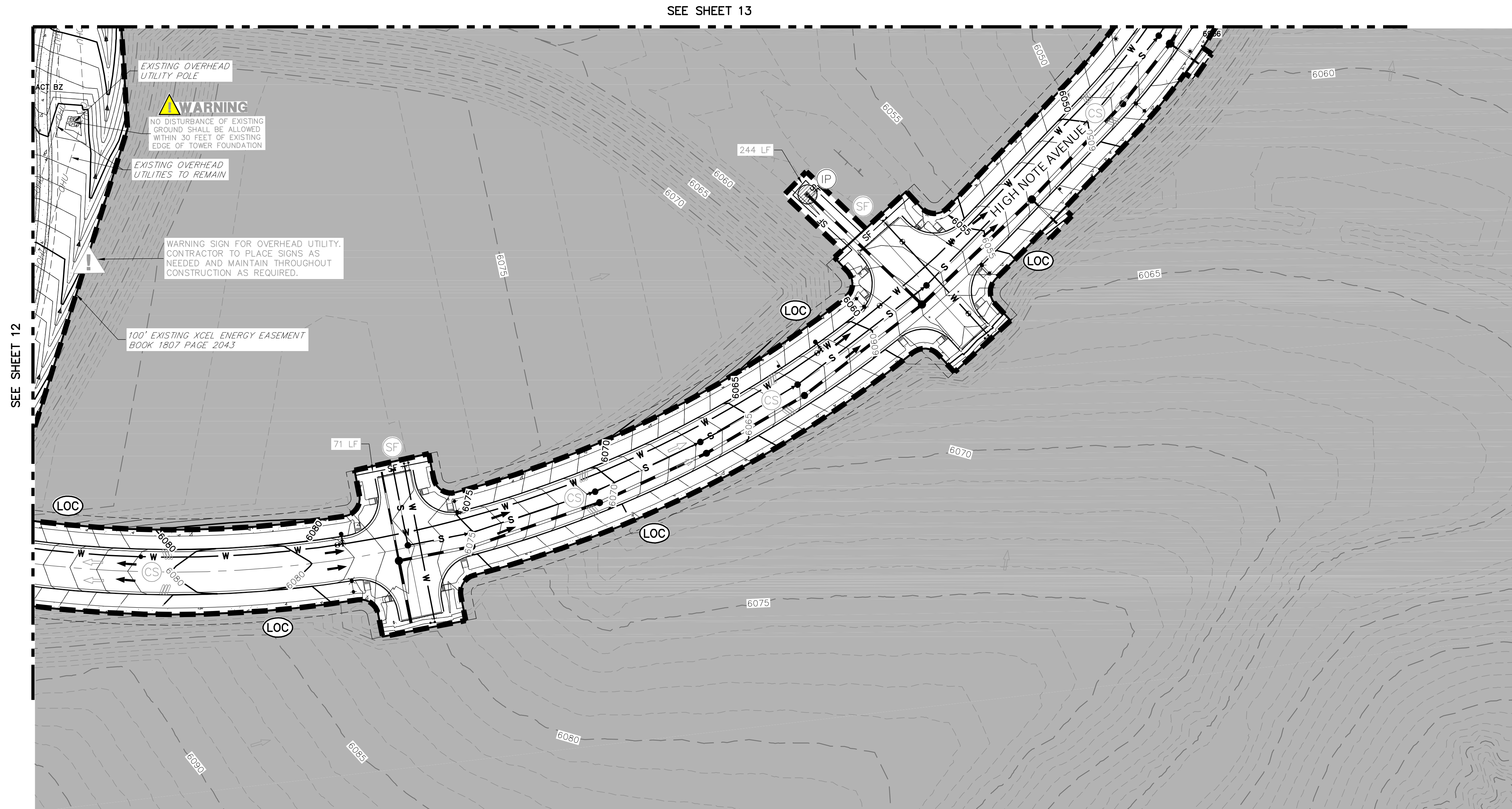
**ENGINEER'S STATEMENT**  
PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

DATE

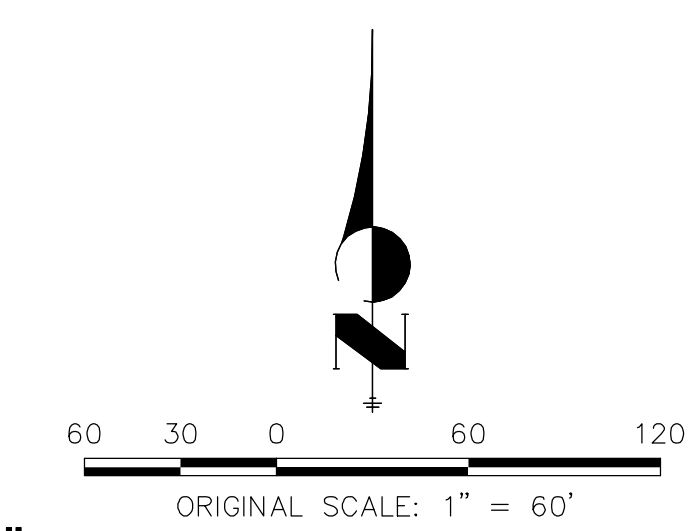






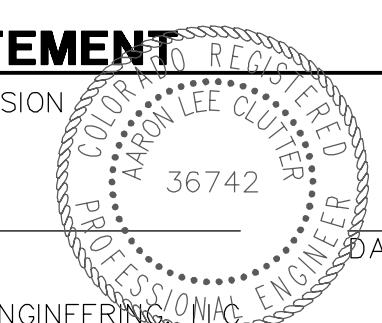
KEYMAP  
SCALE: 1"=1000'

- NOTES:**
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  2. SEE SHEET 39 FOR STANDARD GESC NOTES.
  3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
  7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.



**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION



AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY AS DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company

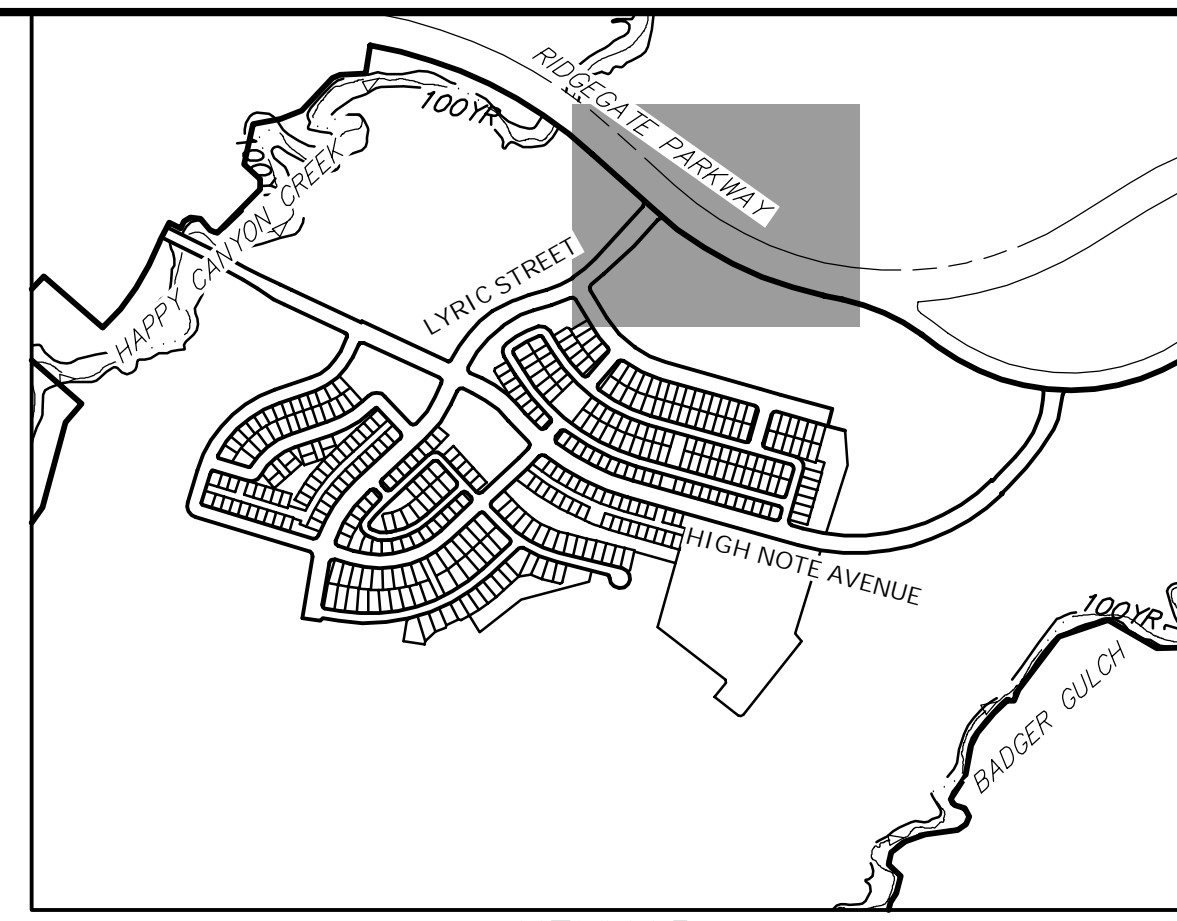
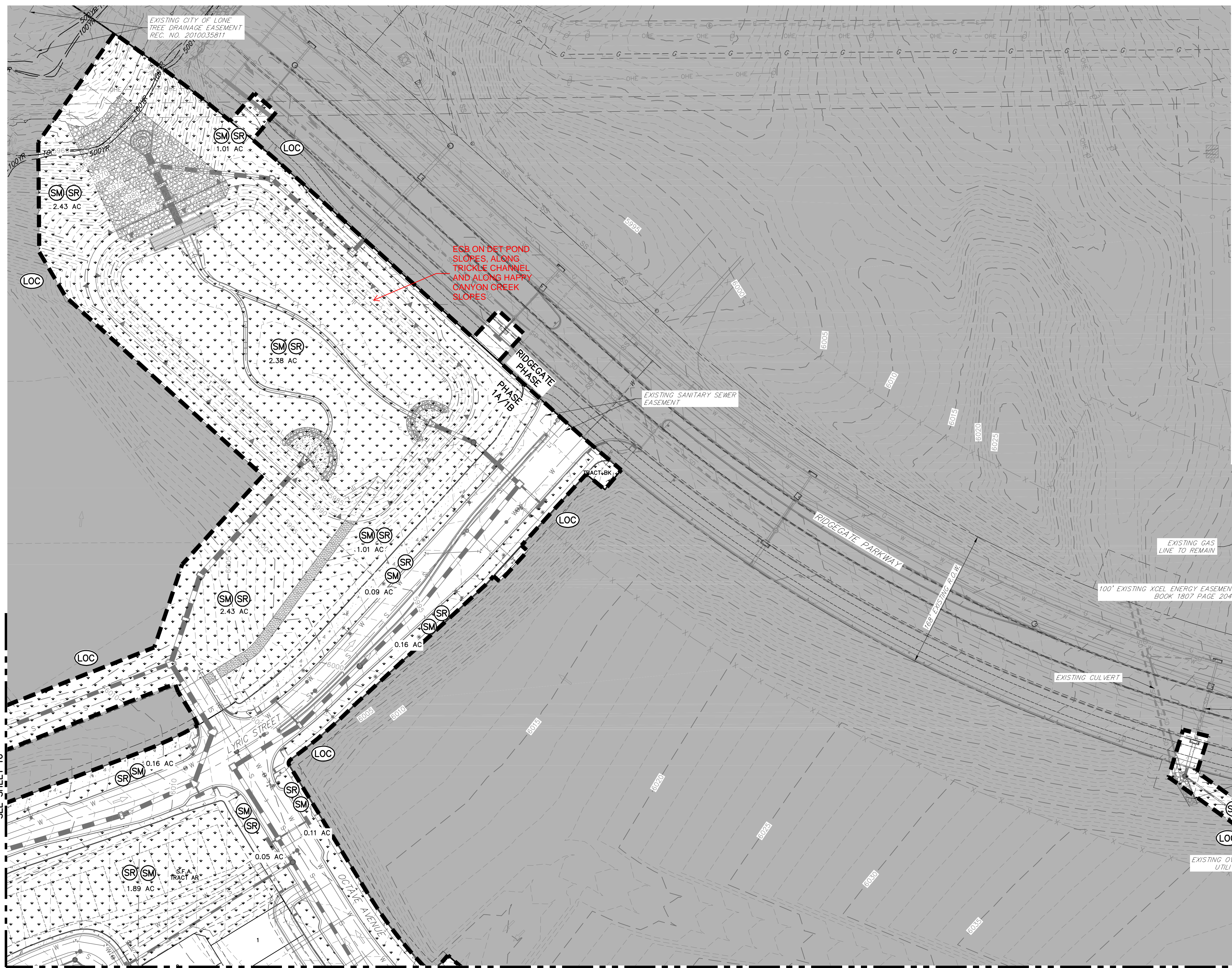
Central 303-740-9383 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	REVISION	
						No.	DATE
1"=60'	N/A	2/12/21	MEP	MEP			

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B INTERIM GESC  
PLAN

SHEET 14 OF 41  
JOB NO. 15950.01

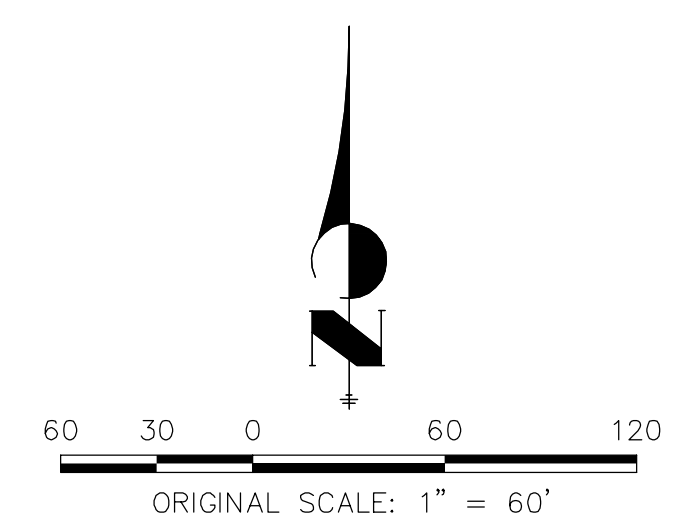




- NOTES:**
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  2. SEE SHEET 39 FOR STANDARD GESC NOTES.
  3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
  7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

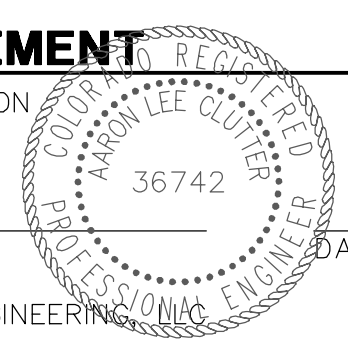
**LANDSCAPE LEGEND**

SM SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.



**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
 AARON L. CLUTTER, P.E.  
 COLORADO P.E. 36742  
 FOR AND ON BEHALF OF JR ENGINEERING



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
 9380 STATION STREET  
 SUITE 600  
 LONE TREE, CO 80124  
 (303) 791-8180

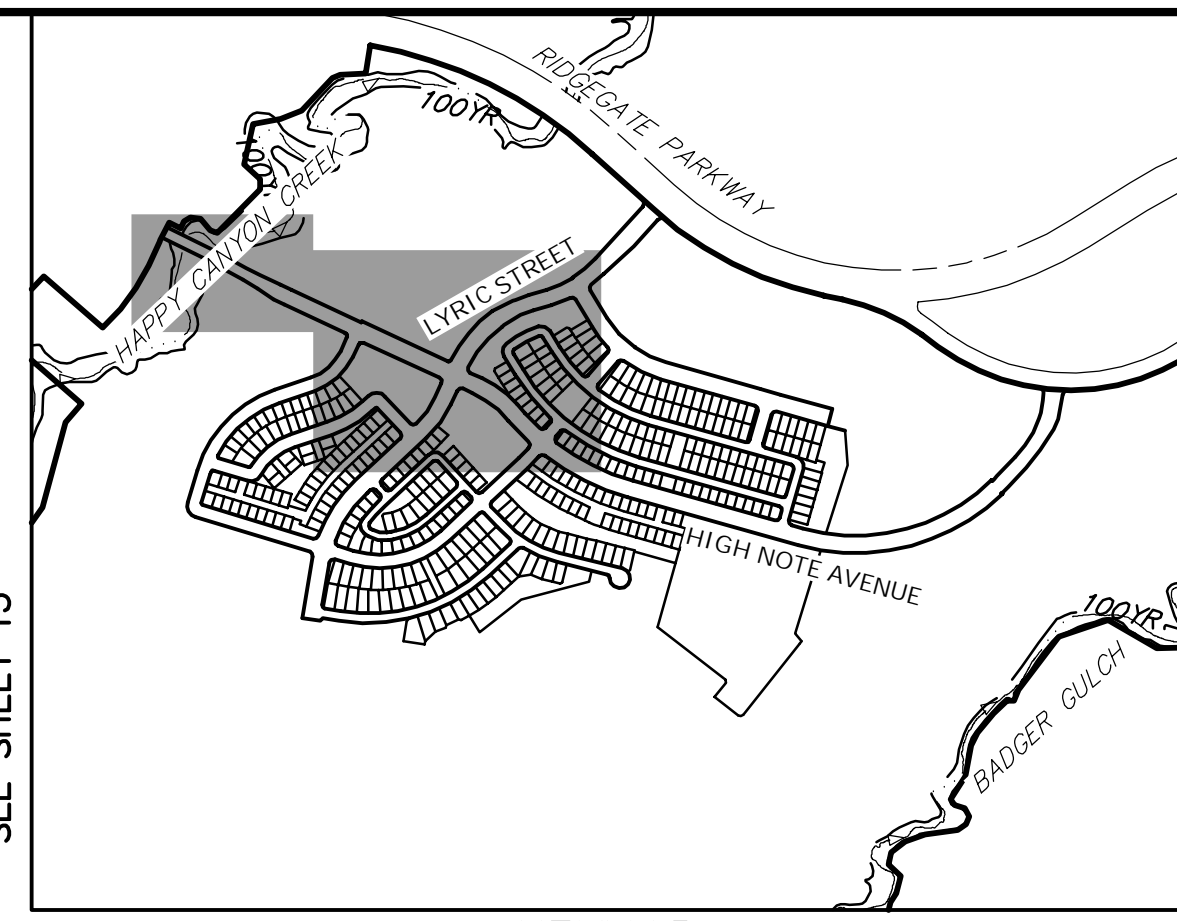
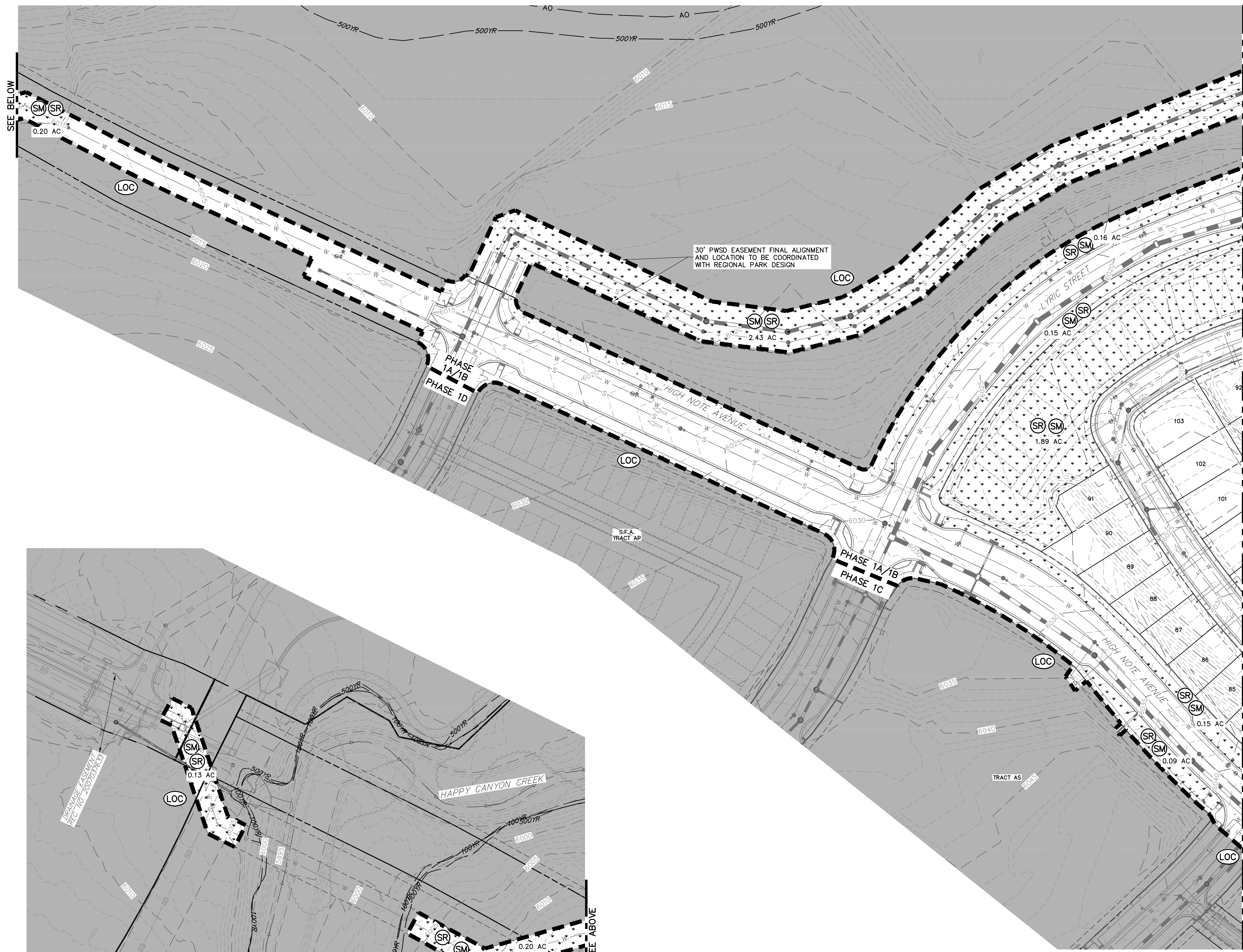
**J.R. ENGINEERING**  
 A Westman Company  
 Centennial 303-740-9383 • Colorado Springs 719-583-2583  
 Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION

RIDGEGATE SW VILLAGE FLG 1  
 INFRASTRUCTURE GESC PLANS  
 PHASE 1A-1B FINAL GESC  
 PLAN

SHEET 15 OF 41  
 JOB NO. 15950.01





**NOTES:**

- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
- SEE SHEET 39 FOR STANDARD GESC NOTES.
- SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
- CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
- NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
- CONSTRUCTION MARKERS TO BE PLACED 100' APART
- CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ON-SITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

**LANDSCAPE LEGEND**

SM SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.

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

ORIGINAL SCALE: 1" = 60'

BY	DATE	NO.	REVISION

**ENGINEER'S STATEMENT**  
PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

**PROFESSIONAL ENGINEER**  
36742

**RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B FINAL GESC  
PLAN**

SHEET 16 OF 41  
JOB NO. 15950.01

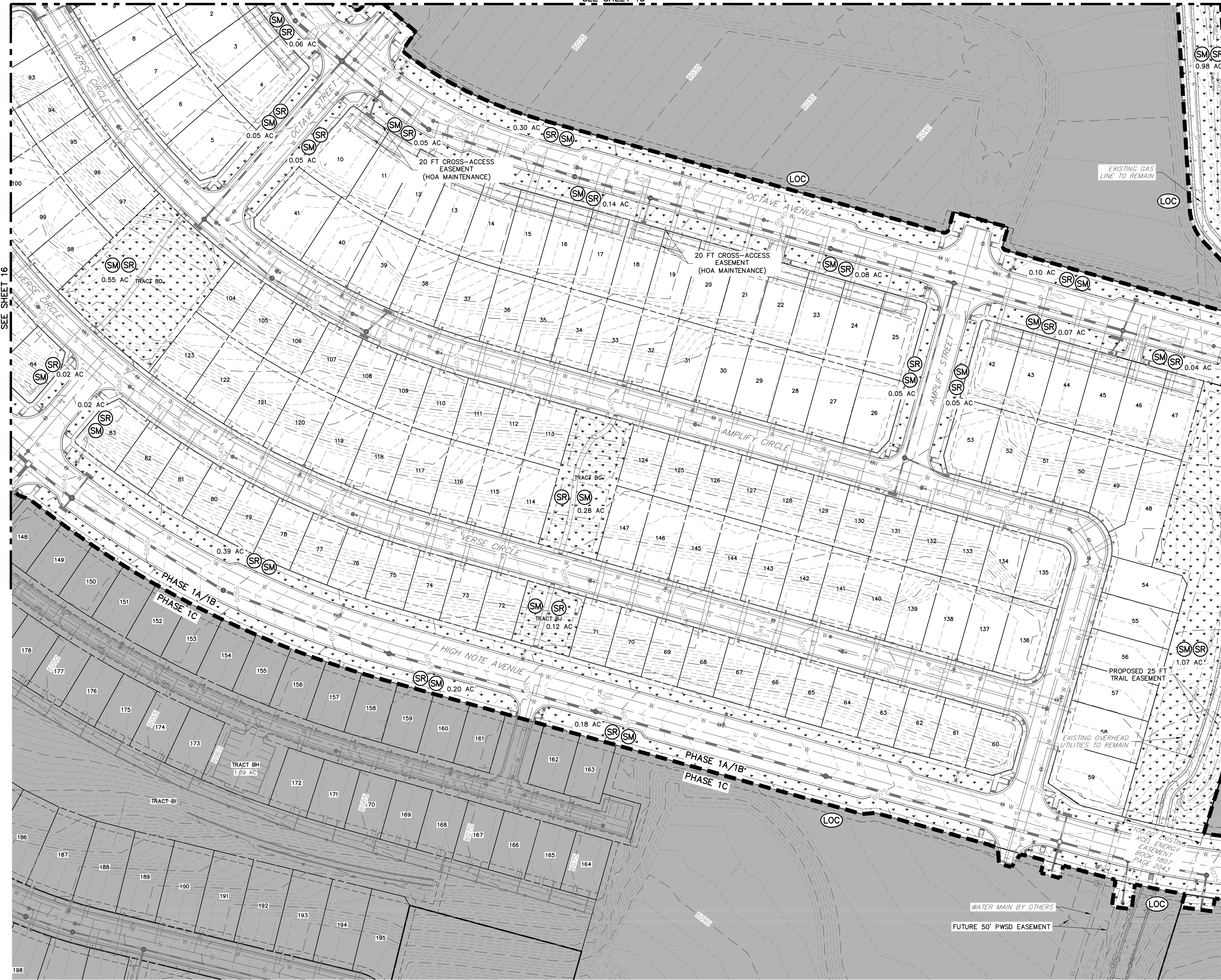
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Centennial 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com



SEE SHEET 15



SEE SHEET 16

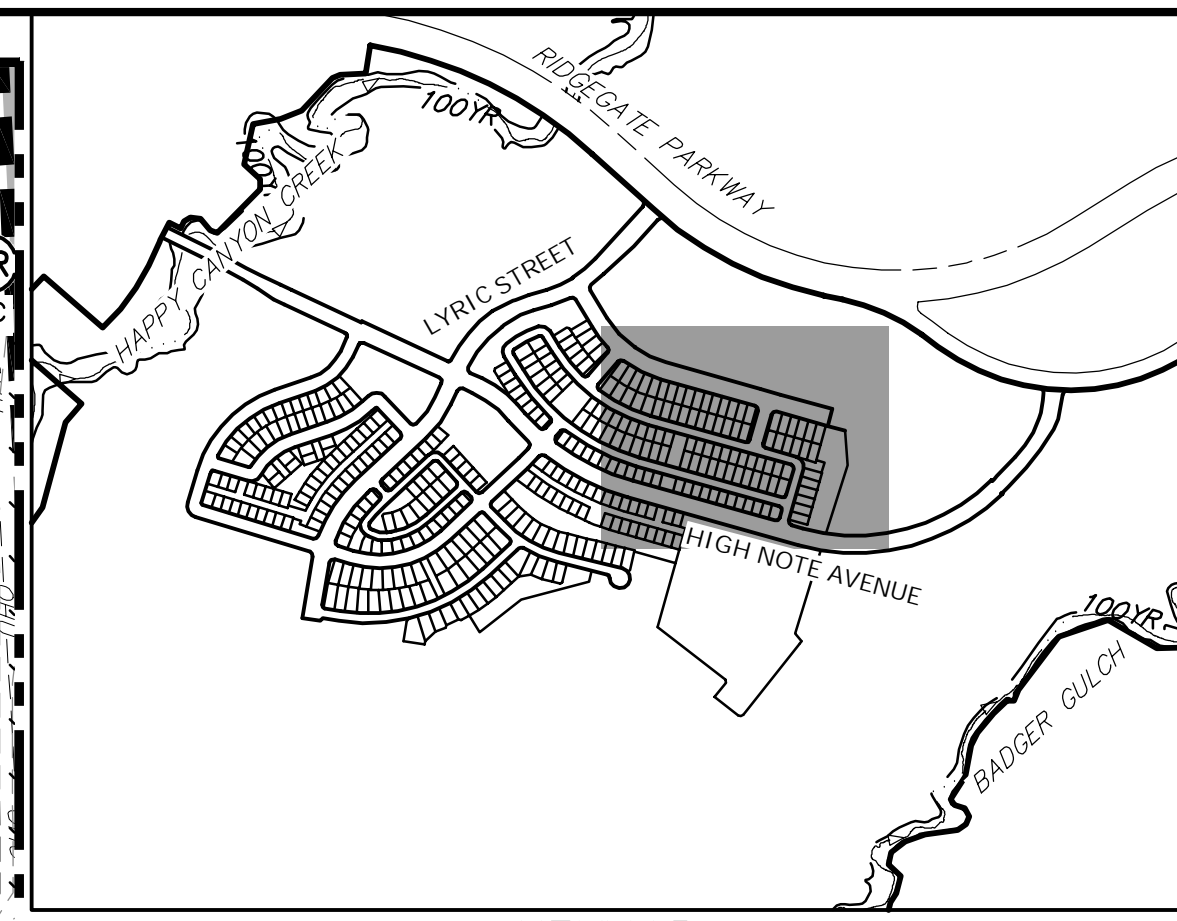
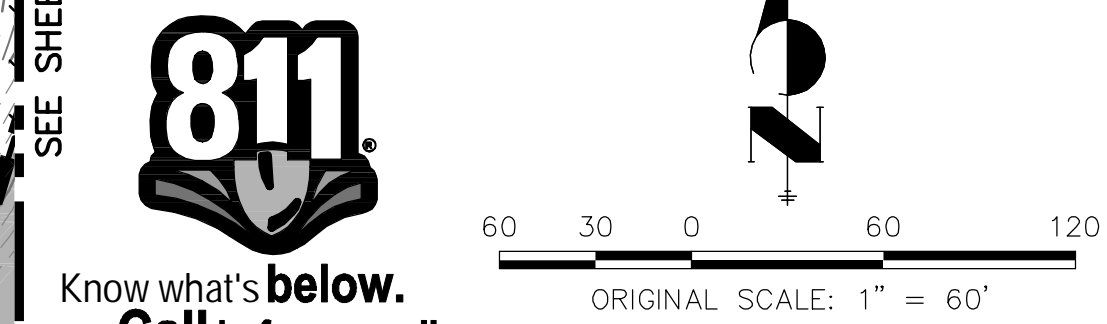
SEE SHEET 18

SEE SHEET 19

- NOTES:**
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  2. SEE SHEET 39 FOR STANDARD GESC NOTES.
  3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  6. CONSTRUCTION MARKERS TO BE PLACED 100' APART.
  7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ON SITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

**LANDSCAPE LEGEND**

SM SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LOVE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9383 • Colorado Springs 719-588-2593  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION

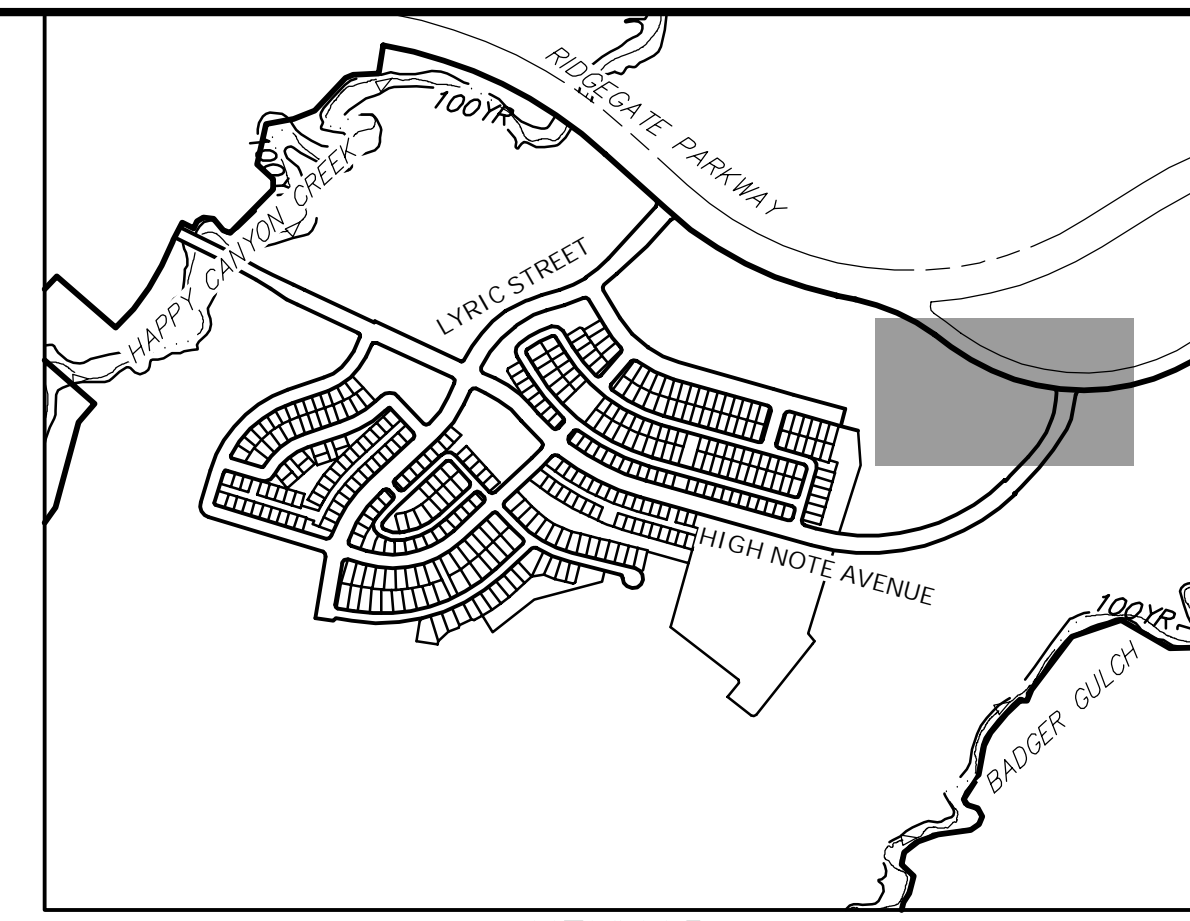
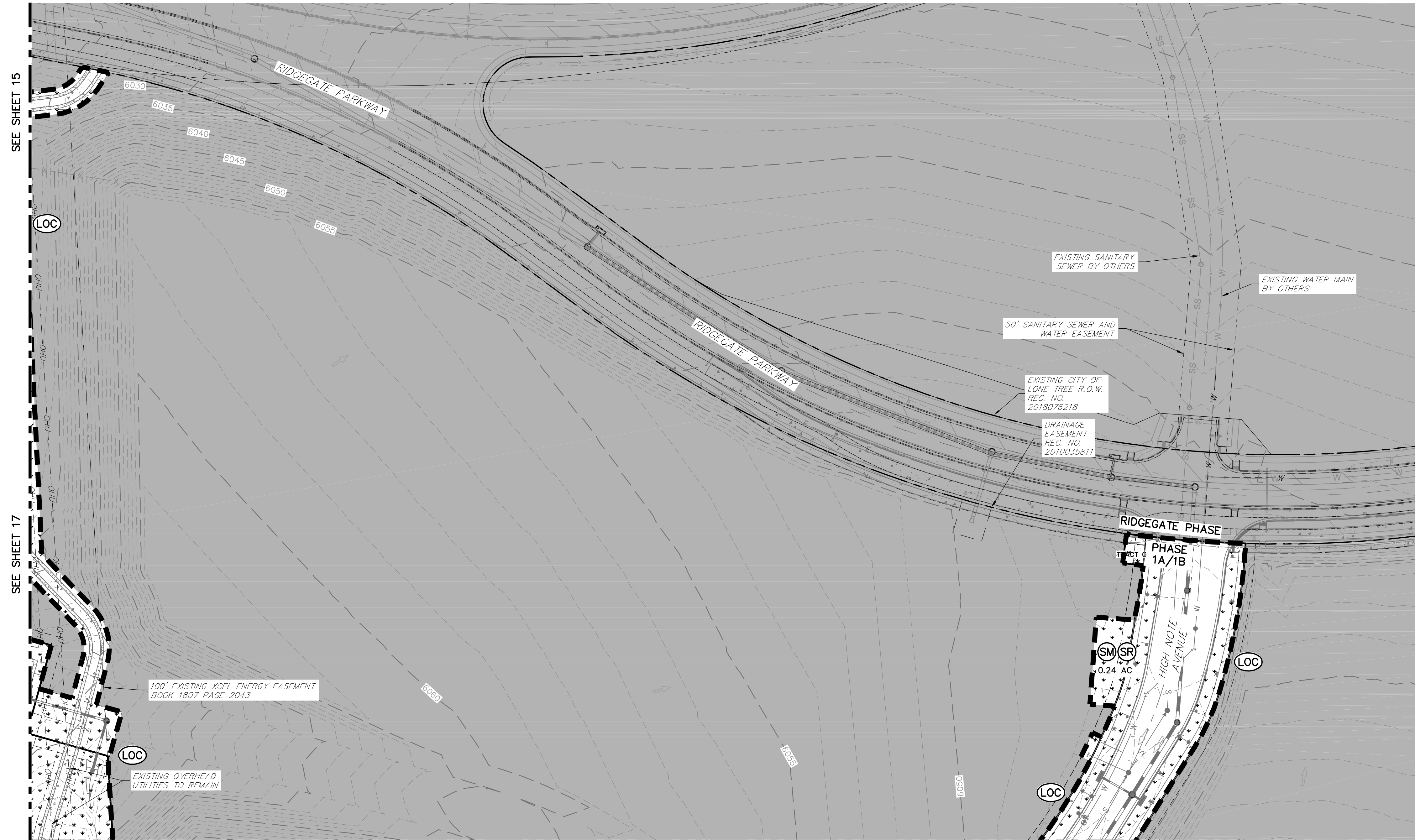
**ENGINEER'S STATEMENT**  
PREPARED UNDER MY SUPERVISION

**AARON L. CLUTTER, P.E.**  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

**RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B FINAL GESC  
PLAN**

SHEET 17 OF 41  
JOB NO. 15950.01





**KEYMAP**  
SCALE: 1"=1000'

**NOTES:**

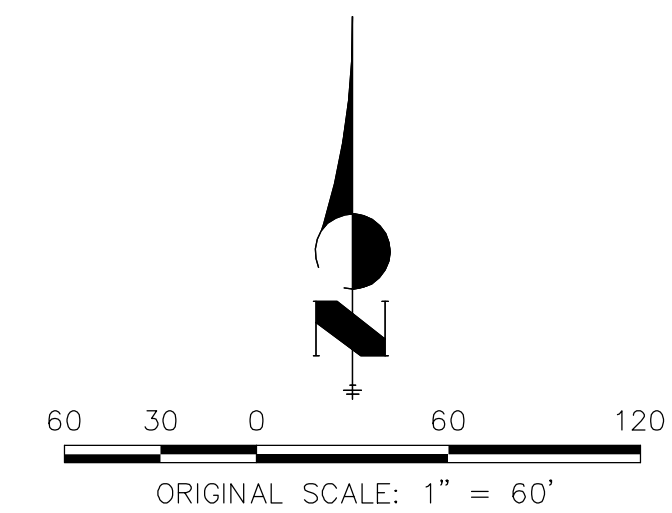
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
2. SEE SHEET 39 FOR STANDARD GESC NOTES.
3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

**LANDSCAPE LEGEND**

**SM** SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.



Know what's below.  
Call before you dig.



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

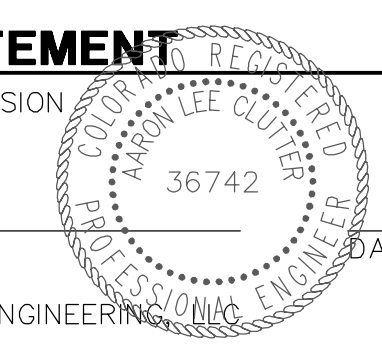
**J.R. ENGINEERING**  
A Westman Company  
Centennial 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	No.	REVISION

H-SCALE	1"=60'	N/A
V-SCALE	N/A	
DATE	2/12/21	
DESIGNED BY	MEP	
DRAWN BY	MEP	
CHECKED BY		

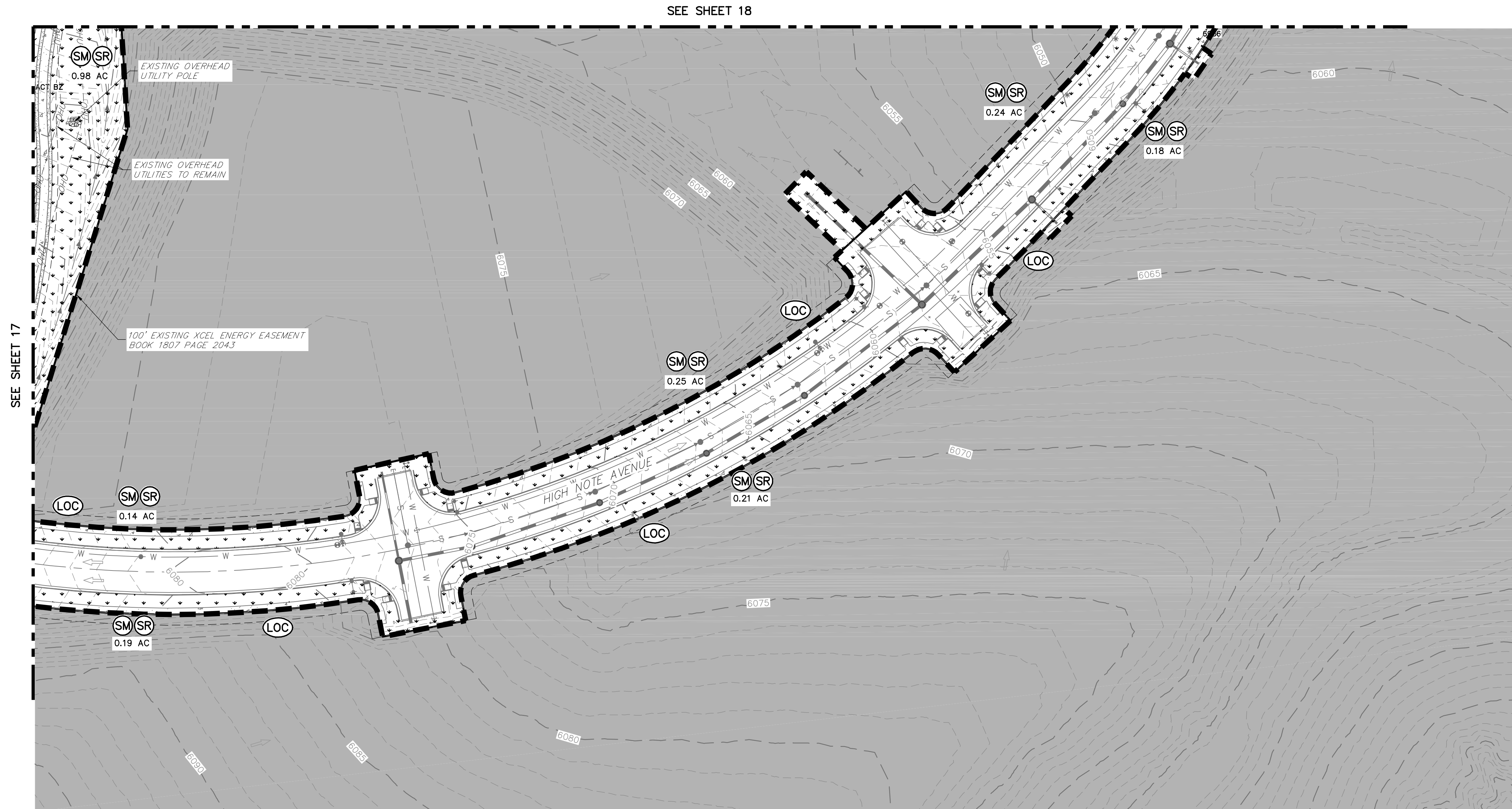
**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION



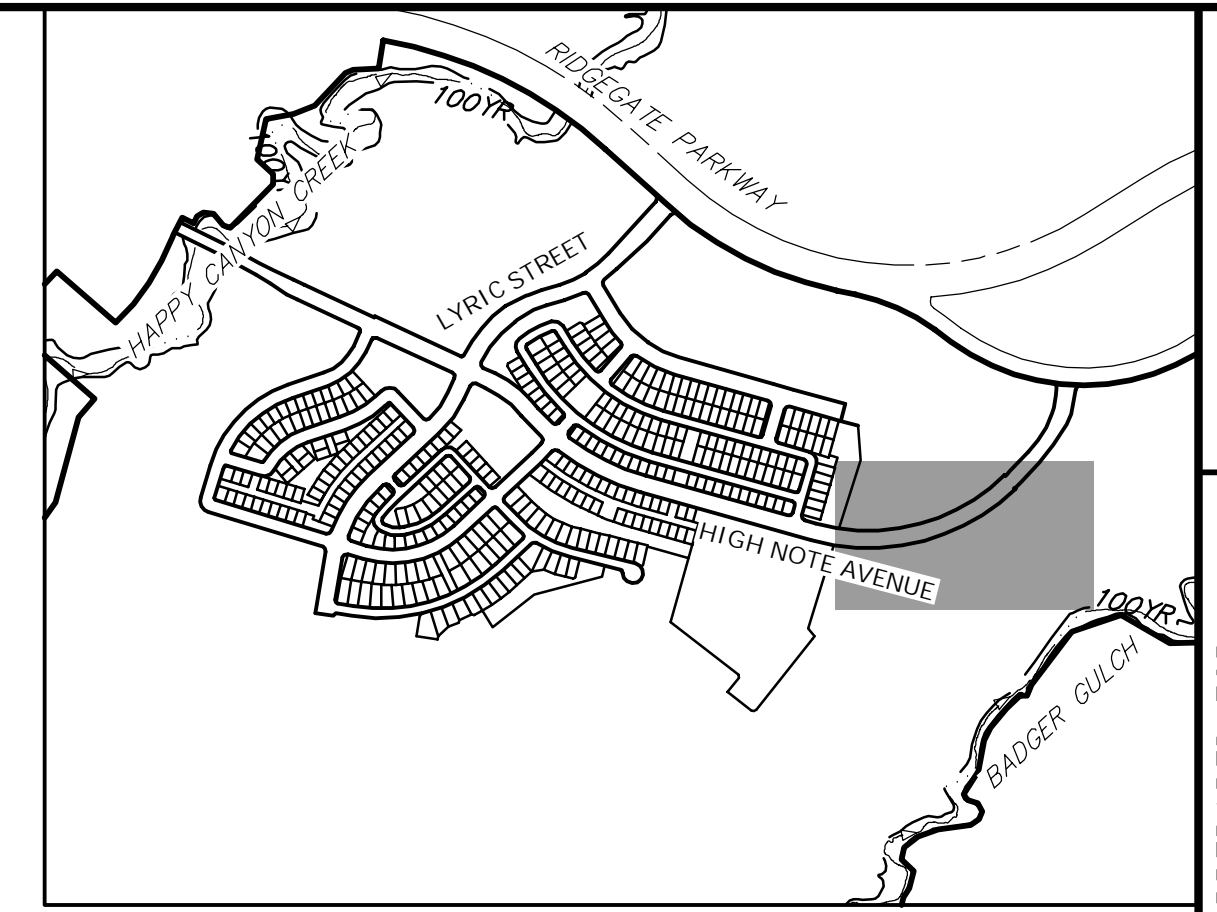
AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING





SEE SHEET 18

SEE SHEET 17



KEYMAP  
SCALE: 1" = 1000'

**NOTES:**

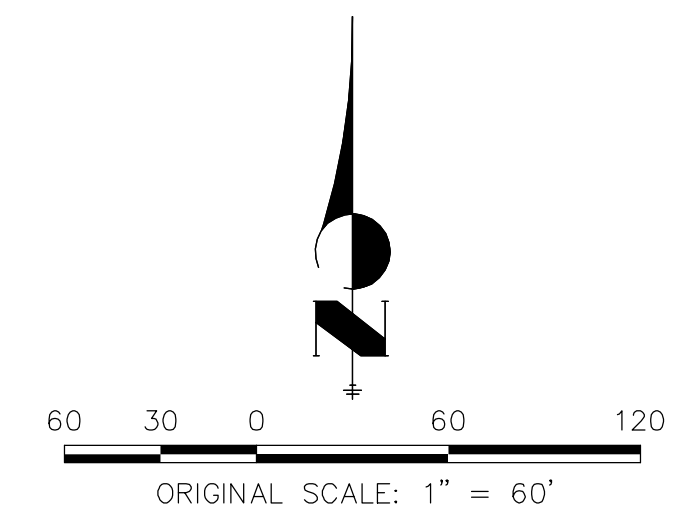
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
2. SEE SHEET 39 FOR STANDARD GESC NOTES.
3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

**LANDSCAPE LEGEND**

SM SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.

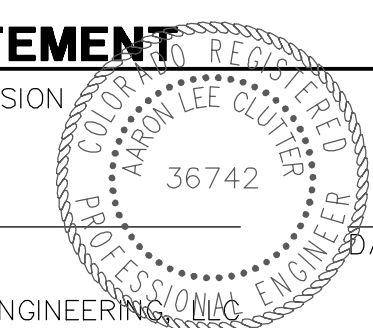


Know what's below.  
Call before you dig.



**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION



AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Centennial 303-740-9383 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

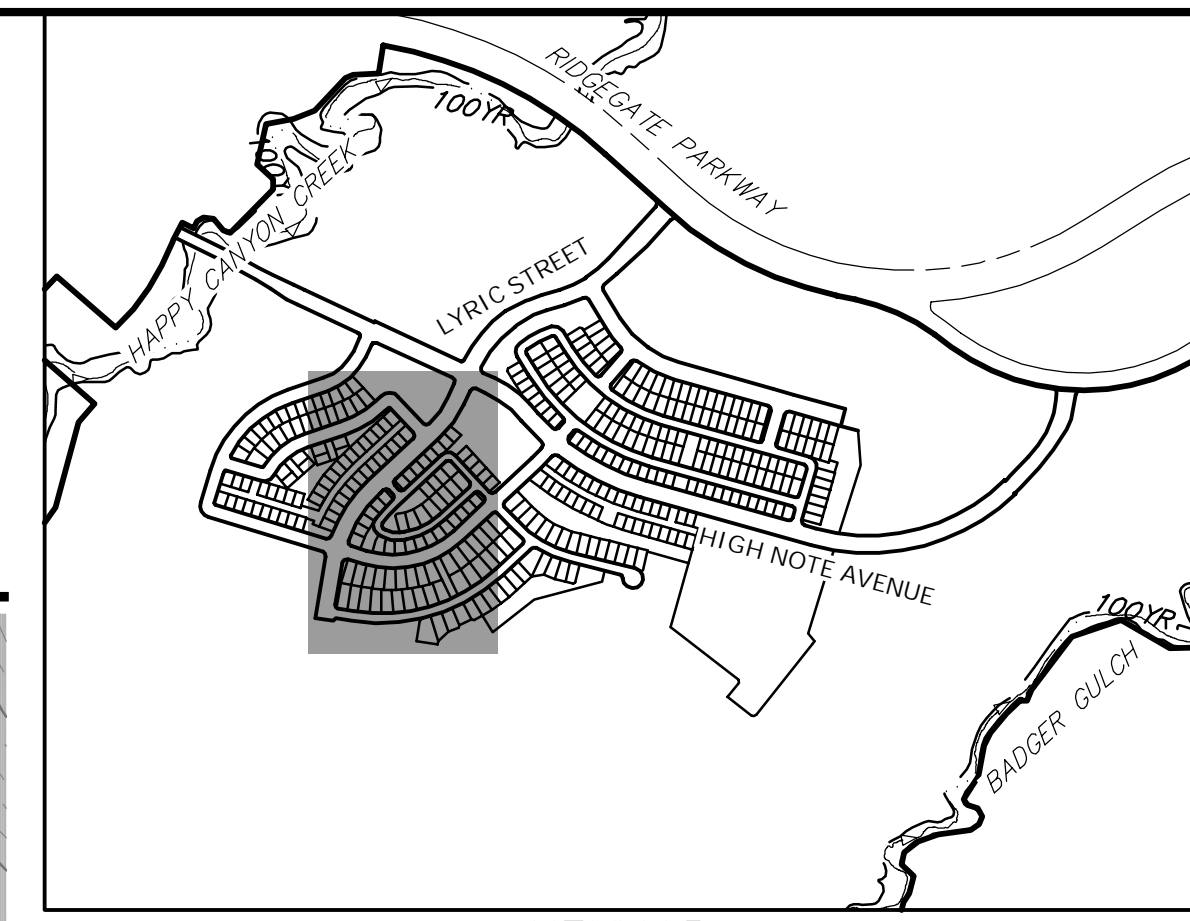
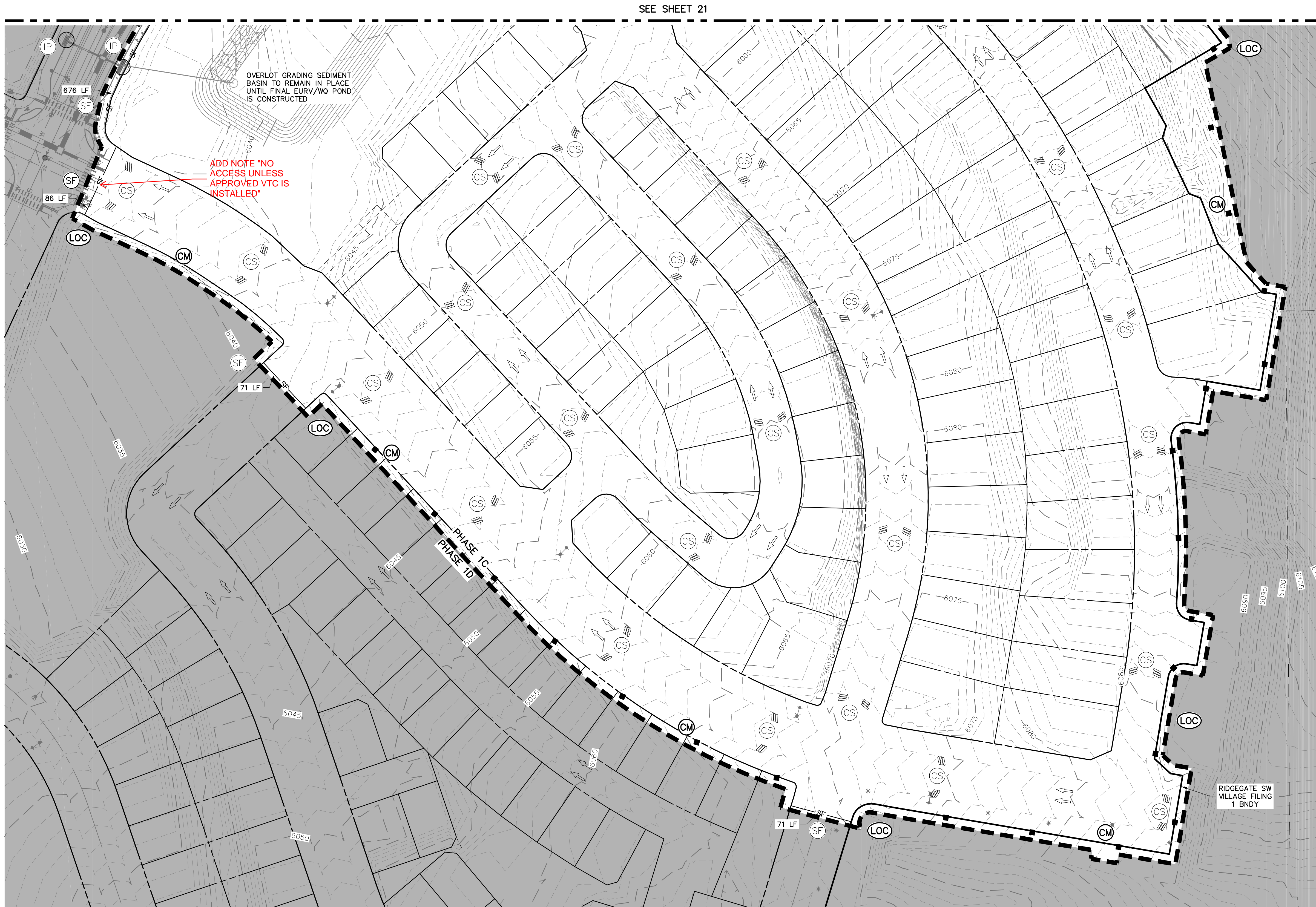
No.	REVISION	BY	DATE	1" = 60'	
				H-SCALE	V-SCALE
				N/A	N/A
			2/12/21	MEP	MEP
				DESIGNED BY	MEP
				DRAWN BY	
				CHECKED BY	

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1A-1B FINAL GESC  
PLAN

SHEET 19 OF 41


JOB NO. 15950.01





UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
 9380 STATION STREET  
 SUITE 600  
 LONE TREE, CO 80124  
 (303) 791-8180

**J.R. ENGINEERING**  
 A Westman Company  
  
 Centennial 303-740-9888 • Colorado Springs 719-588-2583  
 Fort Collins 970-491-9888 • www.jrengineering.com

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	No. REVISION		BY	DATE
						1"=60'	N/A		
		2/12/21	MEP						

**RIDGEGATE SW VILLAGE FLG 1**  
**INFRASTRUCTURE GESC PLANS**  
**PHASE 1C INITIAL GESC PLAN**

SHEET 20 OF 41  
 JOB NO. 15950.01

- NOTES:**
- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  - SEE SHEET 39 FOR STANDARD GESC NOTES.
  - SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  - CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  - NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  - CONSTRUCTION MARKERS TO BE PLACED 100' APART
  - CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

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

ORIGINAL SCALE: 1" = 60'

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
 COLORADO P.E. 36742  
 FOR AND ON BEHALF OF JR ENGINEERING











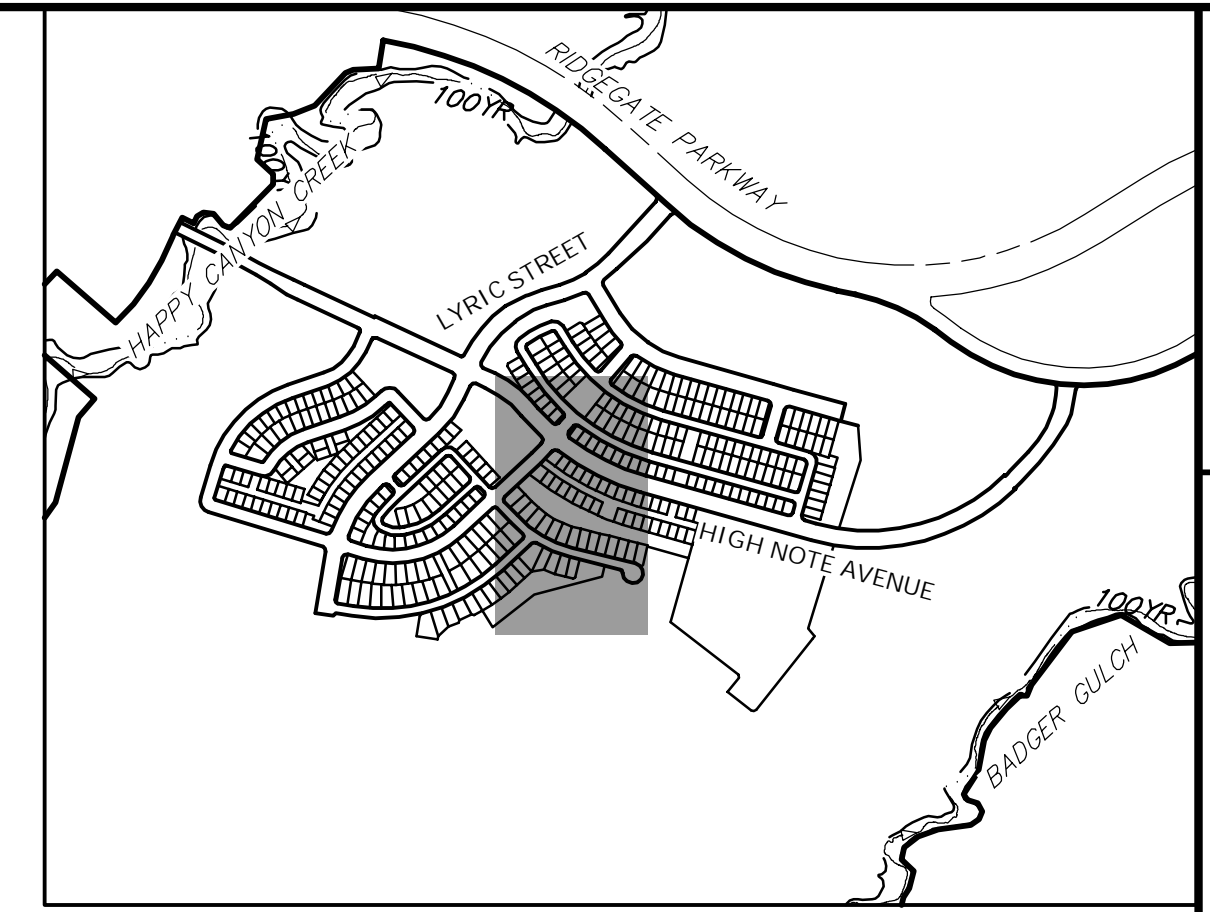






SEE SHEET 25

SEE SHEET 23



KEYMAP  
SCALE: 1"=1000'

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9883 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE

NO.	REVISION

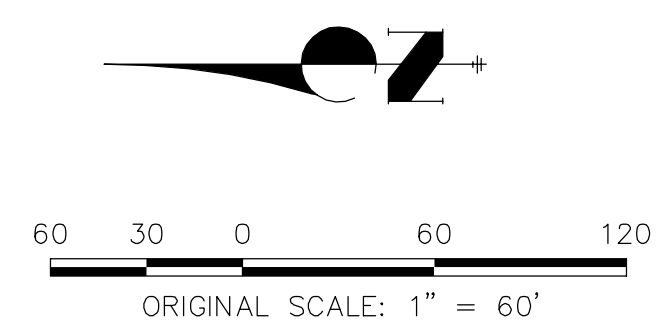
RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1C INTERIM GESC  
PLAN

SHEET 24 OF 41  
JOB NO. 15950.01

- NOTES:**
- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  - SEE SHEET 39 FOR STANDARD GESC NOTES.
  - SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  - CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  - NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  - CONSTRUCTION MARKERS TO BE PLACED 100' APART
  - CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

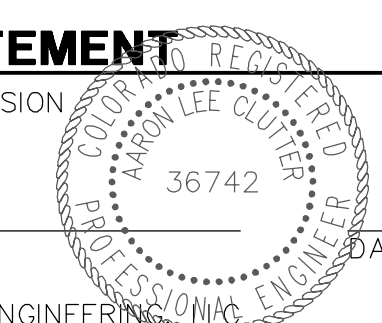


Know what's below.  
Call before you dig.



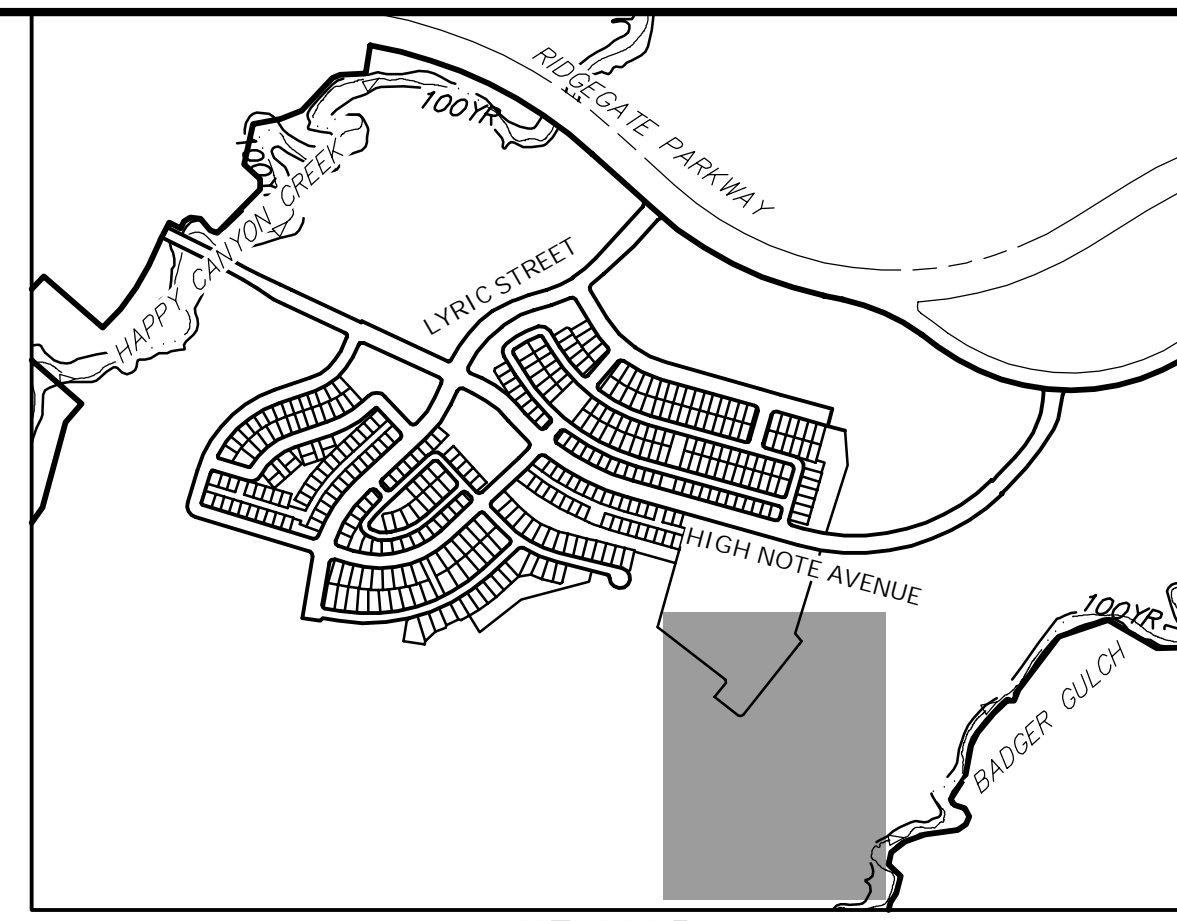
**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION



AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING





UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
 9380 STATION STREET  
 SUITE 600  
 LONE TREE, CO 80124  
 (303) 791-8180

**J.R. ENGINEERING**  
 A Westman Company  
  
 Centennial 303-740-9888 • Colorado Springs 719-588-2583  
 Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION

RIDGEGATE SW VILLAGE FLG 1  
 INFRASTRUCTURE GESC PLANS  
 PHASE 1C INTERIM GESC  
 PLAN

SHEET 25 OF 41  
 JOB NO. 15950.01

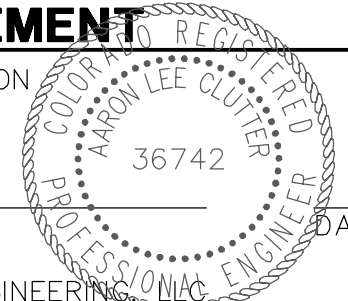
- NOTES:**
- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  - SEE SHEET 39 FOR STANDARD GESC NOTES.
  - SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  - CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  - NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  - CONSTRUCTION MARKERS TO BE PLACED 100' APART
  - CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

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

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
 COLORADO P.E. 36742  
 FOR AND ON BEHALF OF JR ENGINEERING

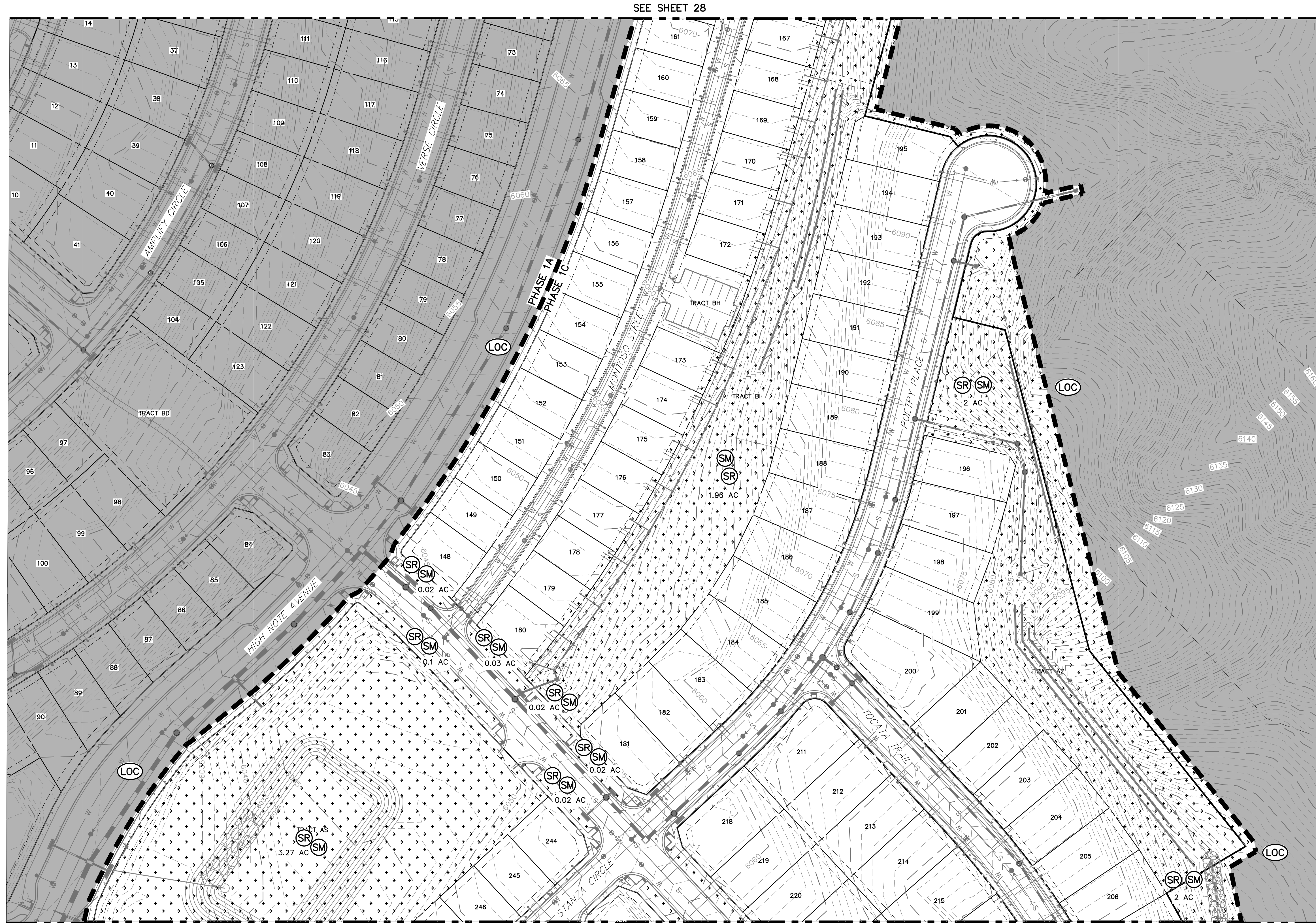
DATE





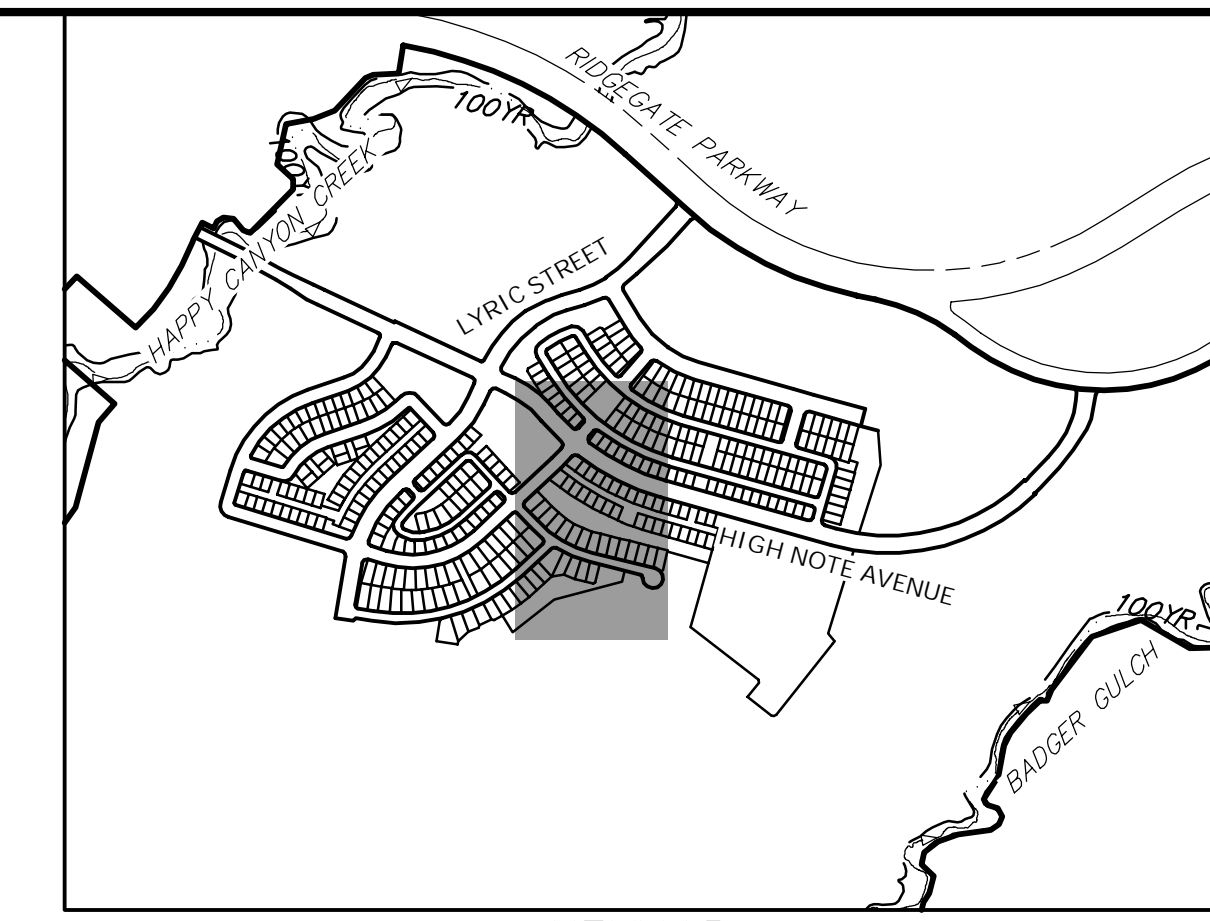






SEE SHEET 28

SEE SHEET 26



KEYMAP  
SCALE: 1"=1000'

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. THESE DRAWINGS ARE DESIGNED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

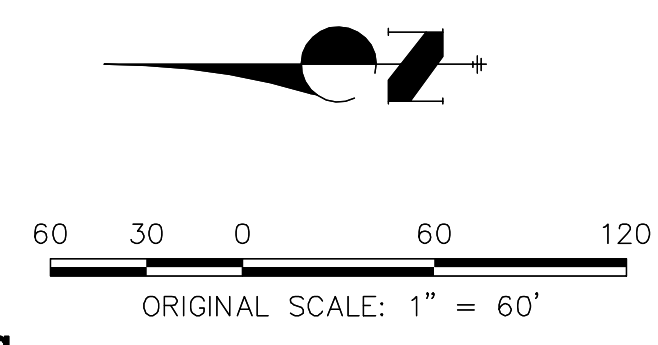
**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	REVISION

**LANDSCAPE LEGEND**  
 (SM) SEEDING, MULCHING OR PERMANENT LANDSCAPE. REF. LANDSCAPE PLANS UNDER SEPARATE COVER.



Know what's below.  
Call before you dig.

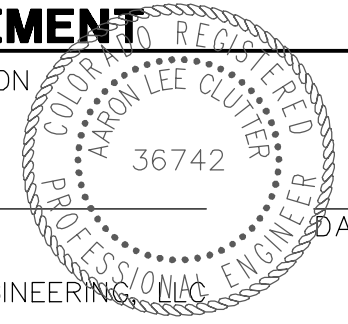


- NOTES:**
- SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  - SEE SHEET 39 FOR STANDARD GESC NOTES.
  - SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  - CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  - NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  - CONSTRUCTION MARKERS TO BE PLACED 100' APART. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ONSITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
 COLORADO P.E. 36742  
 FOR AND ON BEHALF OF JR ENGINEERING



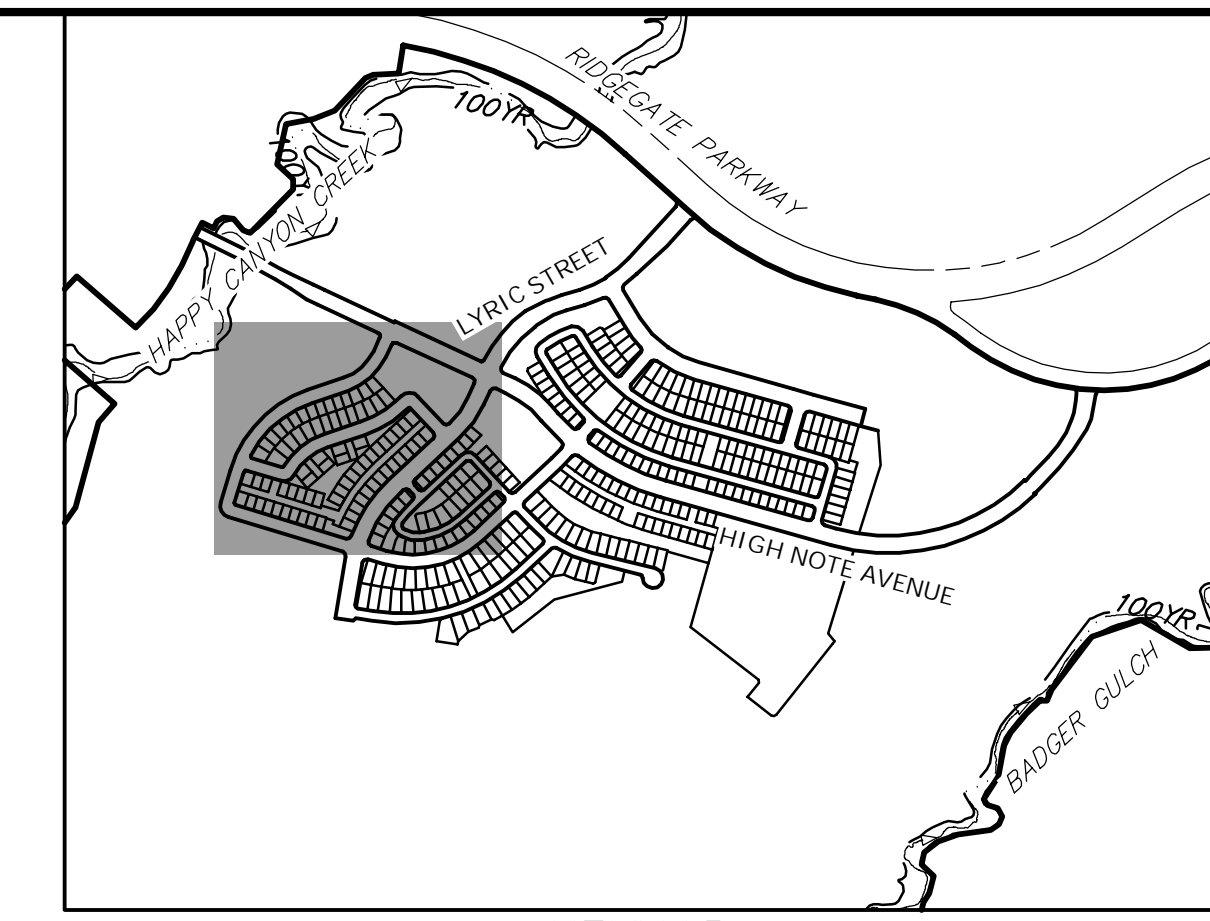
RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1C FINAL GESC PLAN

SHEET 27 OF 41  
JOB NO. 15950.01









**KEYMAP**  
SCALE: 1"=1000'

- NOTES:**
1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
  2. SEE SHEET 39 FOR STANDARD GESC NOTES.
  3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
  4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
  5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
  6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
  7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ON-SITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DESIGNS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LOVE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westrian Company  
Central 303-740-9383 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION

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

ORIGINAL SCALE: 1" = 60'

**ENGINEER'S STATEMENT**  
PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
PHASE 1D INITIAL GESC PLAN

SHEET 29 OF 41  
JOB NO. 15950.01

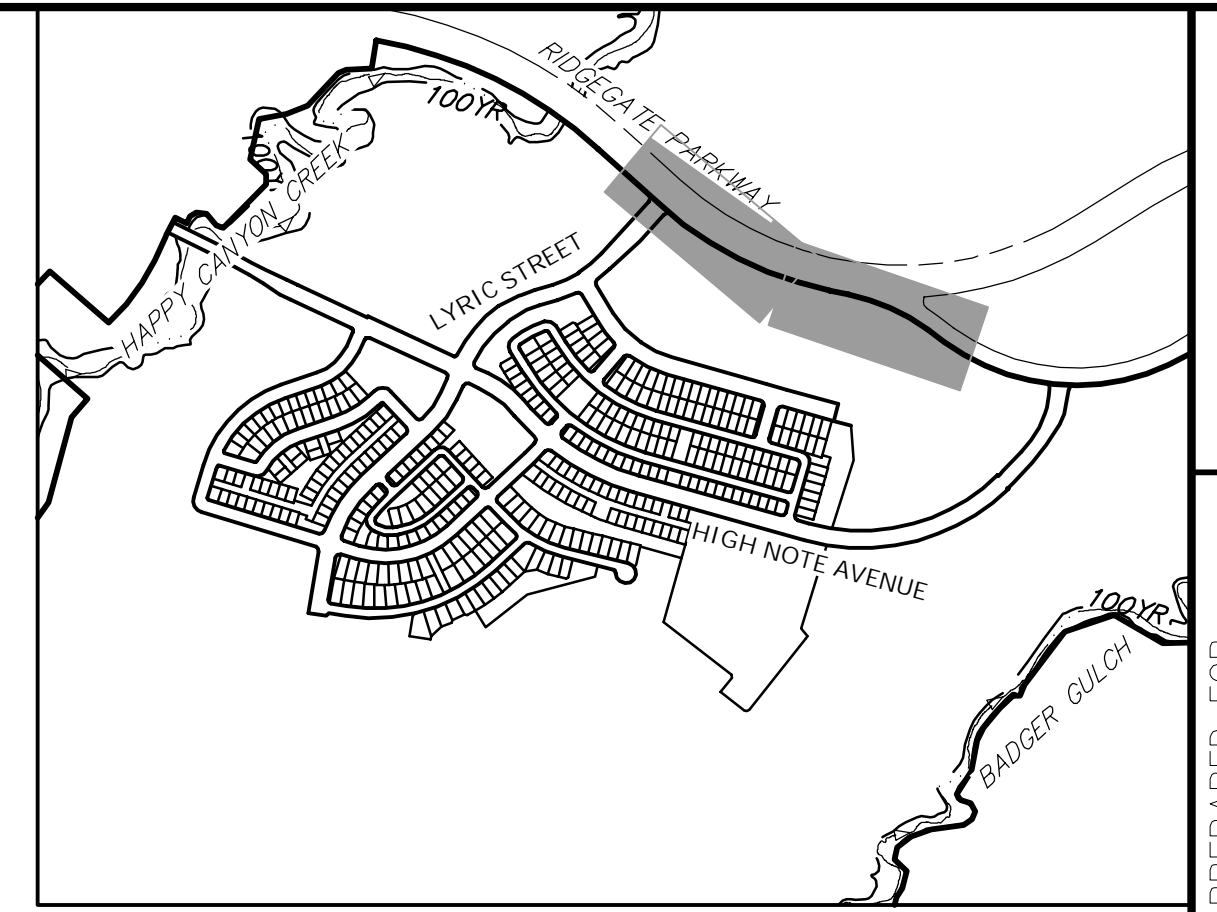
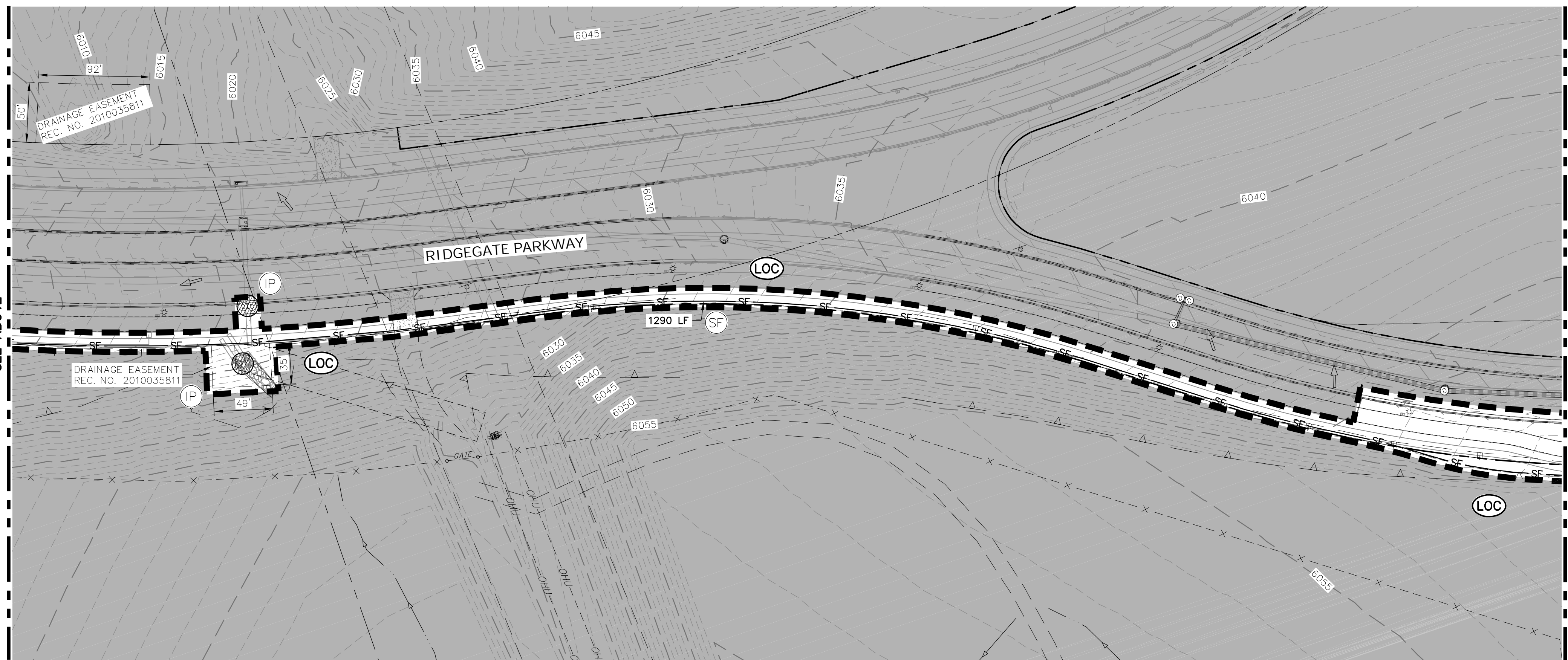
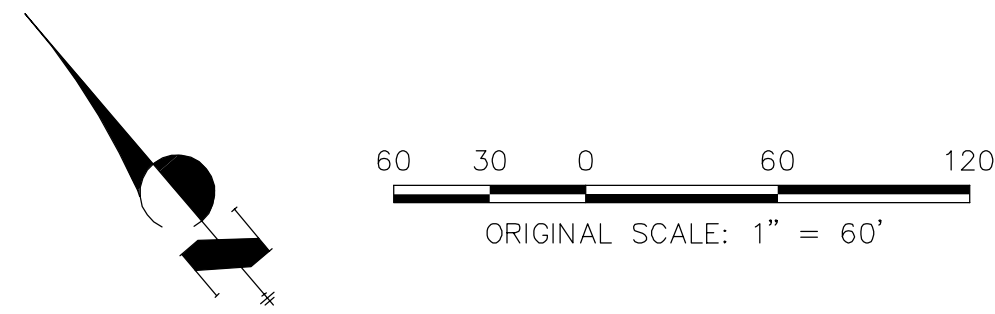
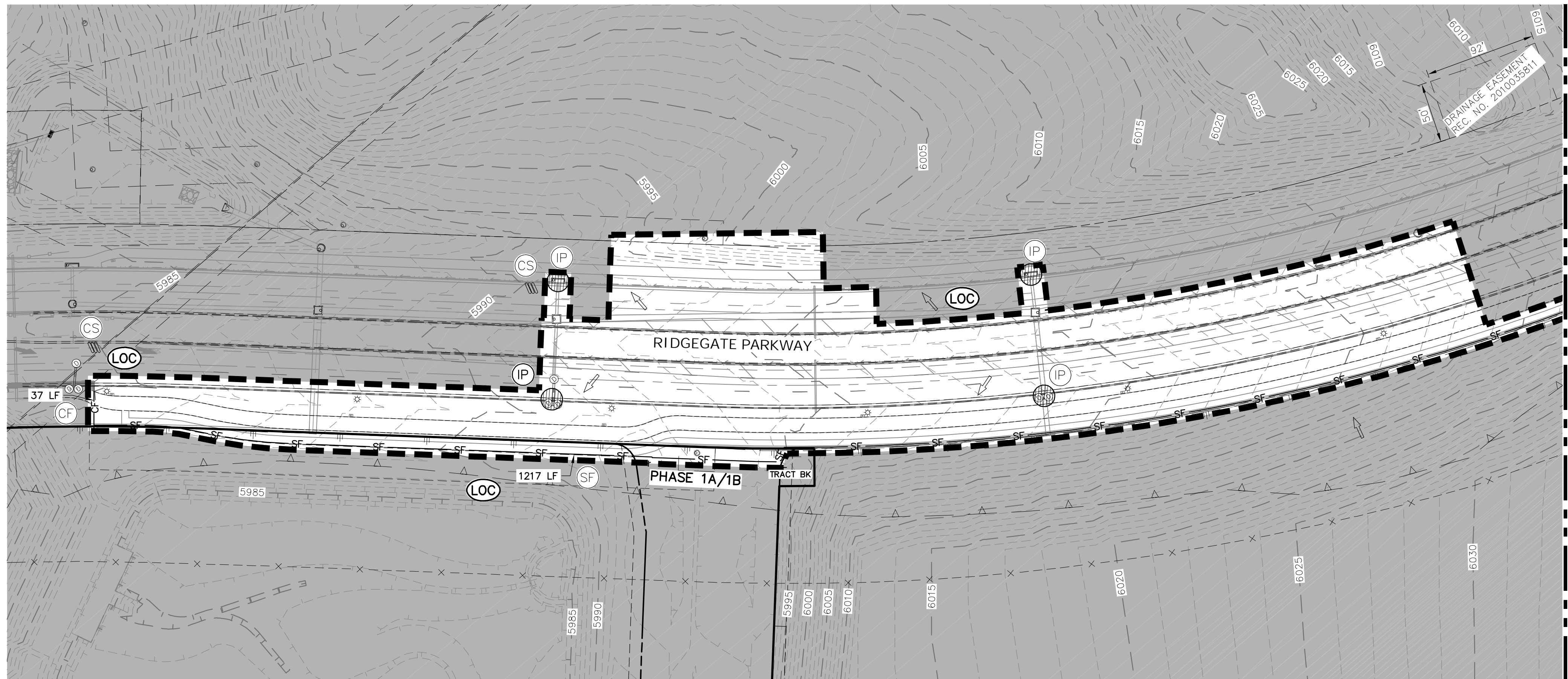












KEYMAP  
SCALE: 1"=1000'

**NOTES:**

1. SEE SHEET 1 FOR BENCHMARK AND SHEET 2 FOR LEGEND.
2. SEE SHEET 39 FOR STANDARD GESC NOTES.
3. SEE SHEETS 39-41 FOR STANDARD GESC DETAILS.
4. CONTRACTOR TO ADJUST SEDIMENT BASINS TO GRADE AS WARRANTED BY CONSTRUCTION.
5. NO GRADING OPERATIONS SHALL OCCUR WITHIN 20' OF OVERHEAD TRANSMISSION TOWERS.
6. CONSTRUCTION MARKERS TO BE PLACED 100' APART
7. CONTRACTOR SHALL HAVE ADEQUATE DUST SUPPRESSION CONTROL MEASURES ON SITE AT ALL TIMES. EXCESS DUST GENERATED FROM OPERATIONS AS DETERMINED BY THE CITY IS GROUNDS FOR STOPPING ALL WORK UNTIL DUST CAN BE CONTROLLED.

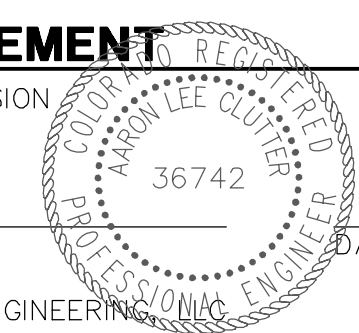


Know what's below.  
Call before you dig.

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
COLORADO P.E. 36742  
FOR AND ON BEHALF OF JR ENGINEERING



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
9380 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

**J.R. ENGINEERING**  
A Westman Company  
Central 303-740-9888 • Colorado Springs 719-588-2583  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE

REVISION	DATE	BY

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
RIDGEGATE PARKWAY INITIAL  
GESC PLAN























# RIDGEGATE SW VILLAGE FLG 1 INFRASTRUCTURE GESC PLANS

A PORTION OF THE RIDGEGATE PLANNED DEVELOPMENT DISTRICT, EAST SIDE PROPERTY  
 A PART OF SECTION 14, SECTION 22, SECTION 23, AND SECTION 24, TOWNSHIP 6 SOUTH, RANGE 67 WEST  
 OF THE 6TH P.M., CITY OF LONE TREE, COUNTY OF DOUGLAS, STATE OF COLORADO



EXISTING FRESHWATER FORESTED/SHRUB WETLAND AREA COORDINATES: 39.514731; -104.867601'

EXISTING INACTIVE BALD EAGLE NEST COORDINATES: 39.515239; -104.841059'

EXISTING ACTIVE BALD EAGLE NEST COORDINATES: 39.515137; -104.841511'

### ENVIRONMENTAL NOTES

- DURING CONSTRUCTION ACTIVITY WITHIN THE DEVELOPMENT, THE APPLICANT, ITS SUCCESSORS AND ASSIGNS SHALL TAKE ALL REASONABLE CARE TO WATCH FOR HISTORIC RESOURCES, PALEONTOLOGICAL RESOURCES, AND OTHER CULTURAL HISTORY RESOURCES AND SHALL IMMEDIATELY NOTIFY CITY OF LONE TREE AND COMPLETE APPROPRIATE COLORADO OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION DATA MANAGEMENT FORMS IN THE EVENT OF SUCH DISCOVERY.
- CONSTRUCTION DISTURBANCE OF A PARTICULAR AREAS VEGETATION THAT OCCURS BETWEEN MARCH 15<sup>TH</sup> THROUGH OCTOBER 31<sup>ST</sup> WILL REQUIRE A BURROWING OWL SURVEY TO ENSURE THE OWLS ARE NOT NESTING IN THE IMPACTED AREA WITHIN THE PRAIRIE DOG BURROWS. NO CONSTRUCTION ACTIVITY CAN PROCEED IN THE PARTICULAR AREA UNTIL WRITTEN CONCURRENCE HAS BEEN PROVIDED BY THE ENVIRONMENTAL CONSULTANT PREPARING THE SURVEY THAT THE AREA IS CLEAR OF BURROWING OWLS, OR AS OTHERWISE DIRECTED BY THE ENVIRONMENTAL CONSULTANT. CONSTRUCTION DISTURBANCE OF THE SITE CAN OCCUR FROM NOVEMBER 1<sup>ST</sup> - MARCH 14<sup>TH</sup> WITH NO BURROWING OWL SURVEY.
- BALD EAGLE NEST BUFFERS AND MONITORING: PER COLORADO PARKS AND WILDLIFE, NO PERMIT IS REQUIRED ON THE RIDGEGATE DEVELOPMENT PROJECT (U.S. FISH AND WILDLIFE PROJECT NUMBER 2020-TA-0948). THE DEVELOPMENT SHALL COORDINATE PROTECTIVE BUFFERS AND EAGLE NEST MONITORING REQUIREMENTS WITH THE U.S. FISH AND WILDLIFE SERVICE. NEST MONITORING SHALL BE CONDUCTED AT THE SITE FOR TWO NESTING SEASON FOLLOWING THE ONSET OF CONSTRUCTION ACTIVITIES IN THE VICINITY OF THE NEST. A MONITORING REPORT SHALL BE SUBMITTED TO THE U.S. FISH AND WILDLIFE FOLLOWING COMPLETION OF MONITORING.

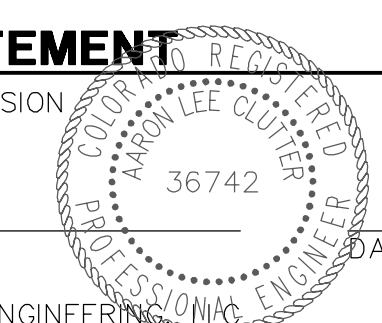
### LEGEND

- PROPOSED**
- SITE BOUNDARY LINE
  - LOT LINE
  - RIGHT OF WAY
  - EASEMENT
- EXISTING**
- RIGHT OF WAY
  - PROPERTY LINE
  - EASEMENT

### ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

AARON L. CLUTTER, P.E.  
 COLORADO P.E. 36742  
 FOR AND ON BEHALF OF JR ENGINEERING



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**SHEA HOMES**  
 9380 STATION STREET  
 SUITE 600  
 LONE TREE, CO 80124  
 (303) 791-8180

**J.R. ENGINEERING**  
 A Westman Company  
 Centennial 303-740-9888 • Colorado Springs 719-588-2583  
 Fort Collins 970-491-9888 • www.jrengineering.com

NO.	REVISION	BY	DATE

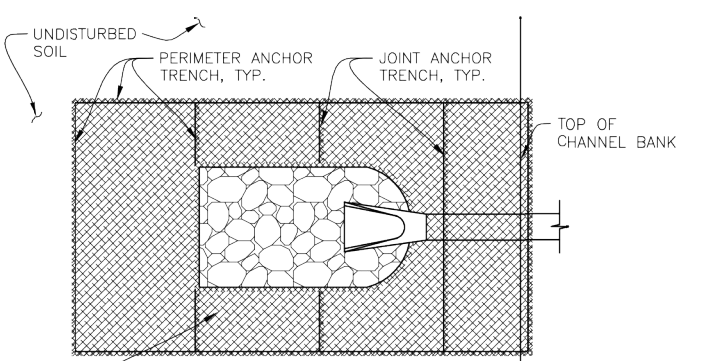
RIDGEGATE SW VILLAGE FLG 1  
 INFRASTRUCTURE GESC PLANS  
 ENVIRONMENTAL MAP

SHEET 38 OF 41  
 JOB NO. 15950.01

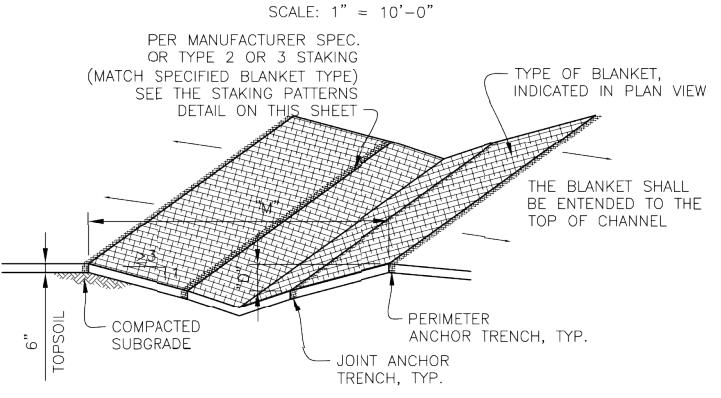




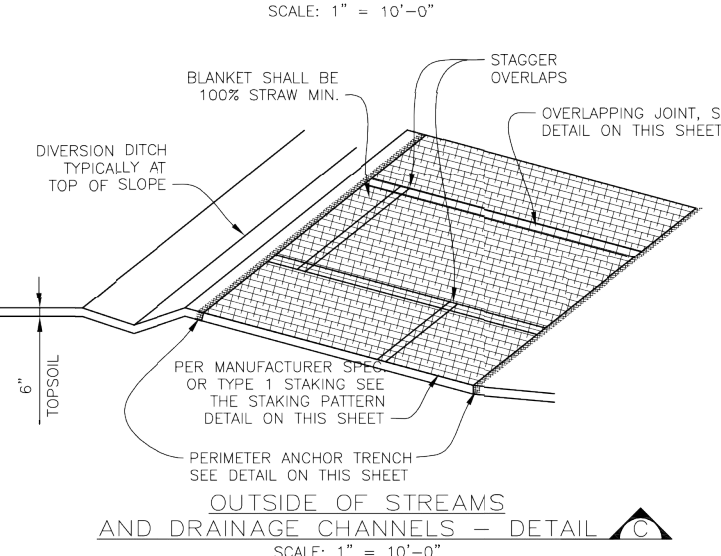




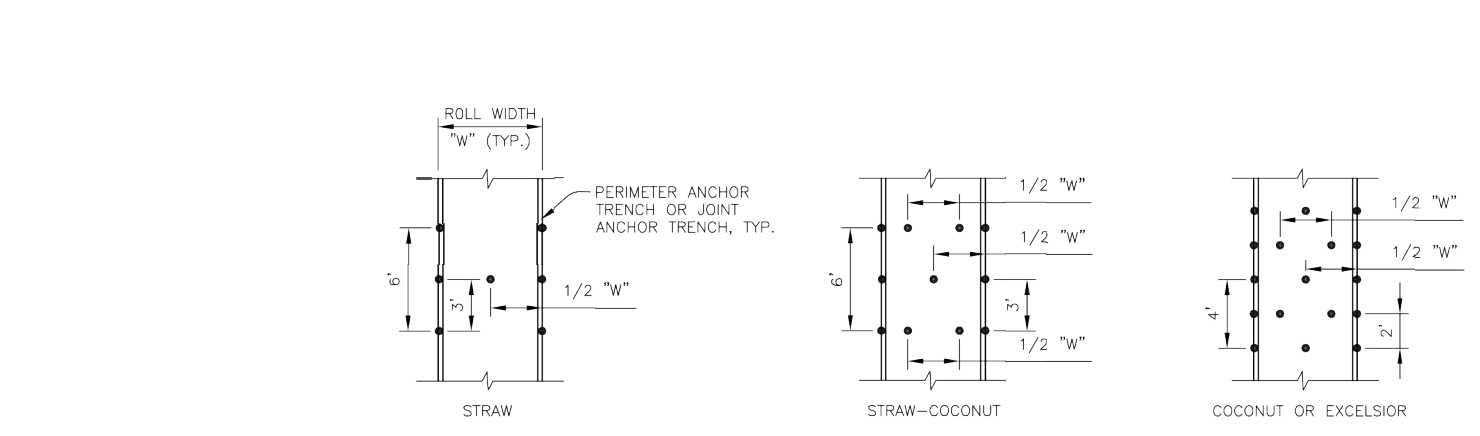
IN DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS - DETAIL A



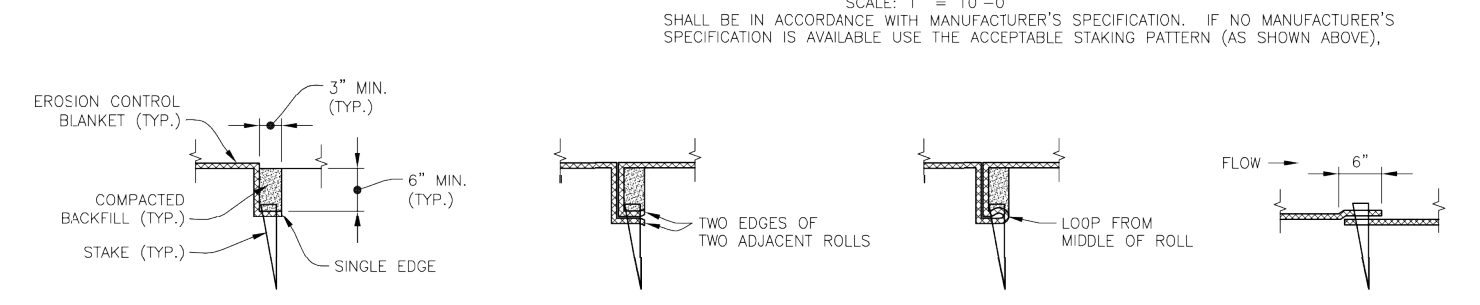
SMALL DITCH DRAINAGWAY - DETAIL A



OUTSIDE OF STREAMS AND DRAINAGE CHANNELS - DETAIL A



STAKING PATTERNS



PERIMETER ANCHOR TRENCH JOINT ANCHOR TRENCH INTERMEDIATE ANCHOR TRENCH WOOD STAKE DETAIL

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF PERIMETER OF EROSION CONTROL BLANKET.
  - TYPE OF BLANKET (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR).
  - AREA TO BE COVERED BY EACH TYPE OF BLANKET.
- ALL EROSION CONTROL BLANKETS AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL, NO PLASTIC OR OTHER SYNTHETIC MATERIAL, EVEN IF PHOTO DEGRADABLE, SHALL BE ALLOWED.
- IN AREAS WHERE EROSION CONTROL BLANKET IS SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE REQUIREMENTS OF DETAIL 17. SEEDING AND MULCHING, SUBGRADE SHALL BE SMOOTH AND MUST PRIOR TO BLANKET INSTALLATION AND THE BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE, NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED AT OUTSIDE PERIMETER OF ALL BLANKET CONTACT.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL BLANKETS EXCEPT STRAW, WHICH MAY USE AN OVERLAPPING JOINT.
- THE OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER FOR COCONUT AND EXCELSIOR BLANKETS.
- MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKET SHALL CONFORM TO TABLE 7.1.

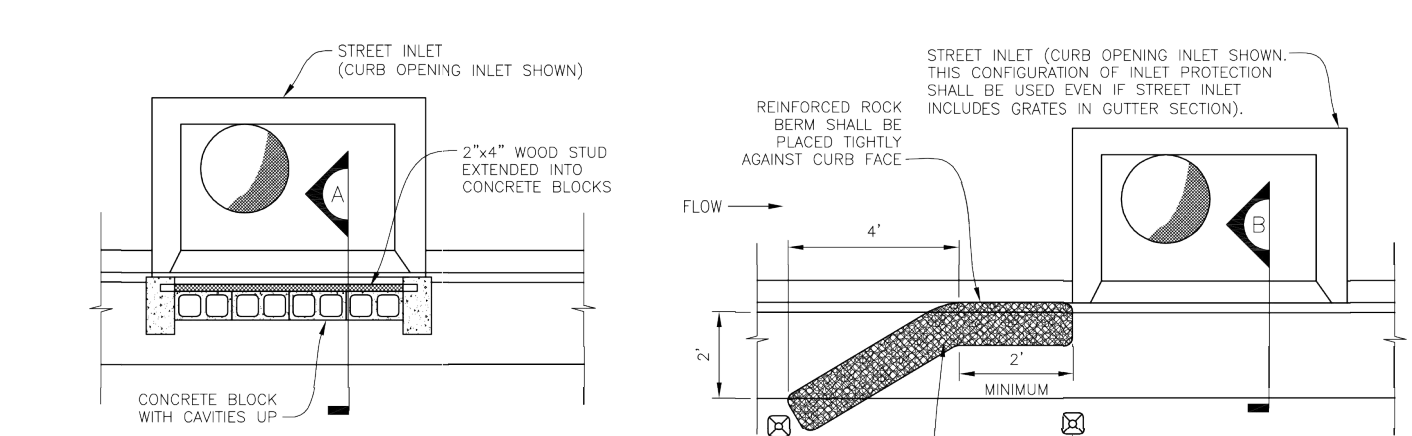
EROSION CONTROL BLANKET INSTALLATION NOTES - CONTINUED

TABLE 7.1 - EROSION CONTROL BLANKET TYPE			
TYPE	COCONUT CONTENT	STRAW EXCELSIOR CONTENT	NETTING MIN.
STRAW	0%	100%	DOUBLE/NATURAL
STRAW-COCOONUT	SIZE MIN. 70% MAX. 100%	DOUBLE/NATURAL	DOUBLE/NATURAL
COCONUT	100%	0%	DOUBLE/NATURAL
EXCELSIOR	0%	100%	DOUBLE/NATURAL

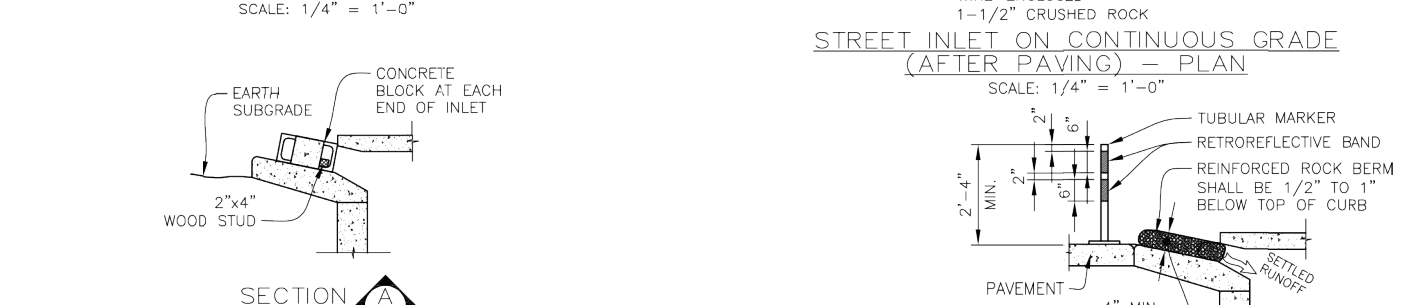
EROSION CONTROL BLANKET MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT EROSION CONTROL BLANKETS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.
- EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE CITY.
- ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REINSTALLED. ANY SUBGRADE BELOW THE BLANKET THAT HAS EXPOSED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAINS VOID OF GRASS SHALL BE REPAIRED, RESEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

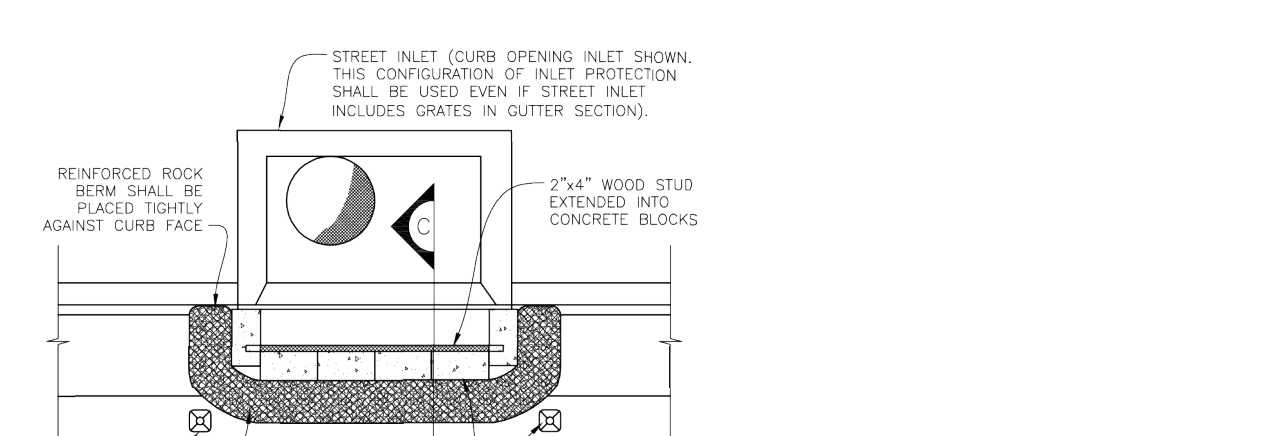
ECB EROSION CONTROL BLANKET 9



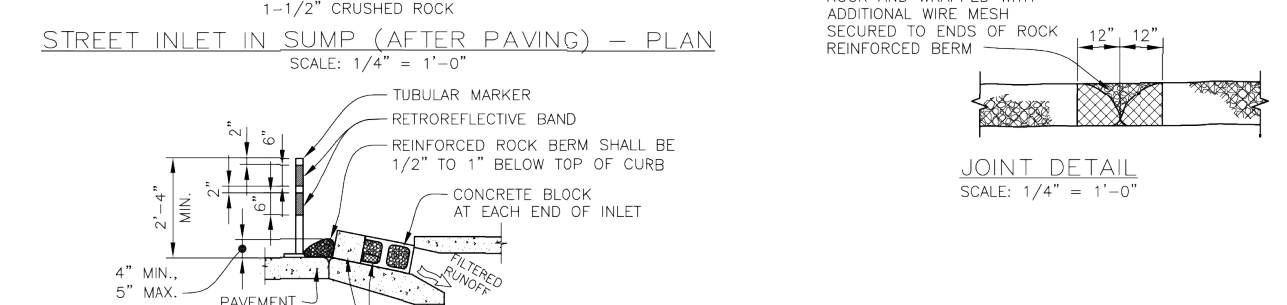
INTERIM CONFIGURATION (BEFORE PAVING) STREET INLET - PLAN



SECTION



STREET INLET IN SUMP (AFTER PAVING) - PLAN



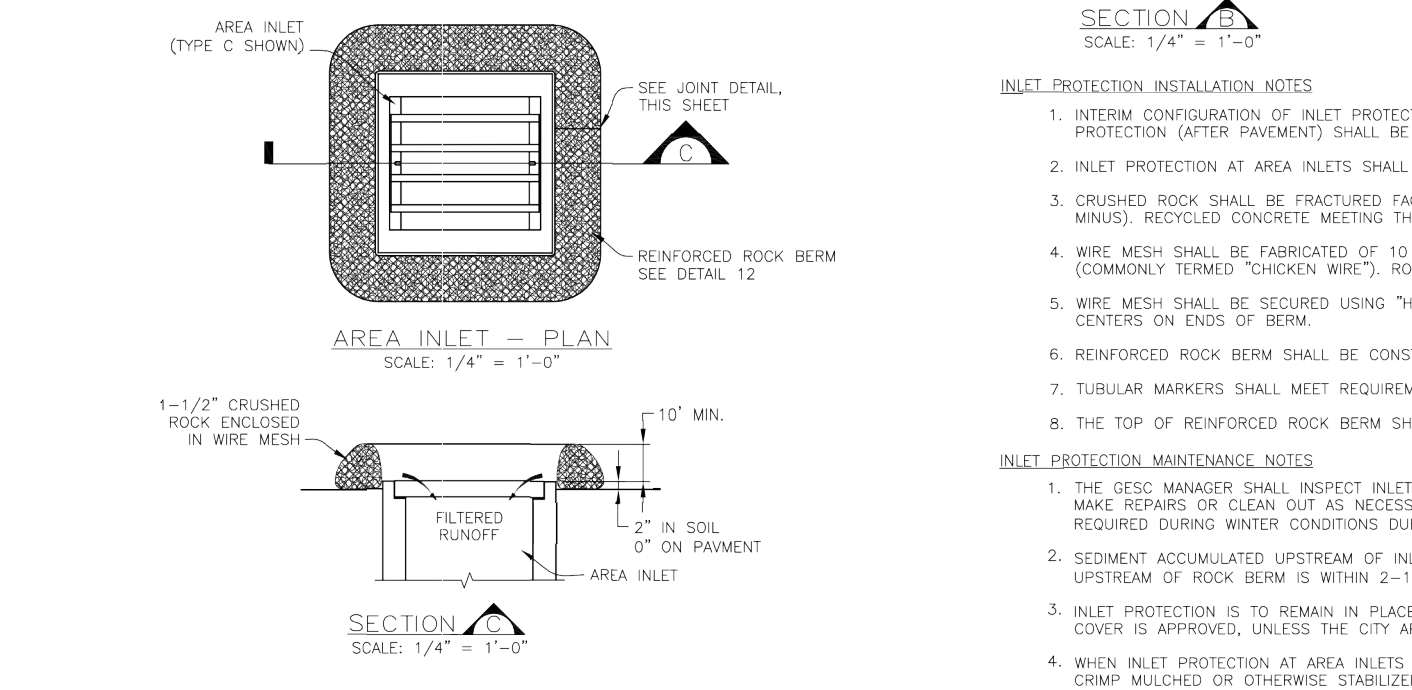
SECTION

INLET PROTECTION INSTALLATION NOTES

- INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET PROTECTION (AFTER PAVING) SHALL BE INSTALLED WITHIN 48-HOURS AFTER PAVING IS PLACED.
- INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET.
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT DETAIL.
- TUBULAR MARKERS SHALL MEET REQUIREMENTS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED.
- THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB.

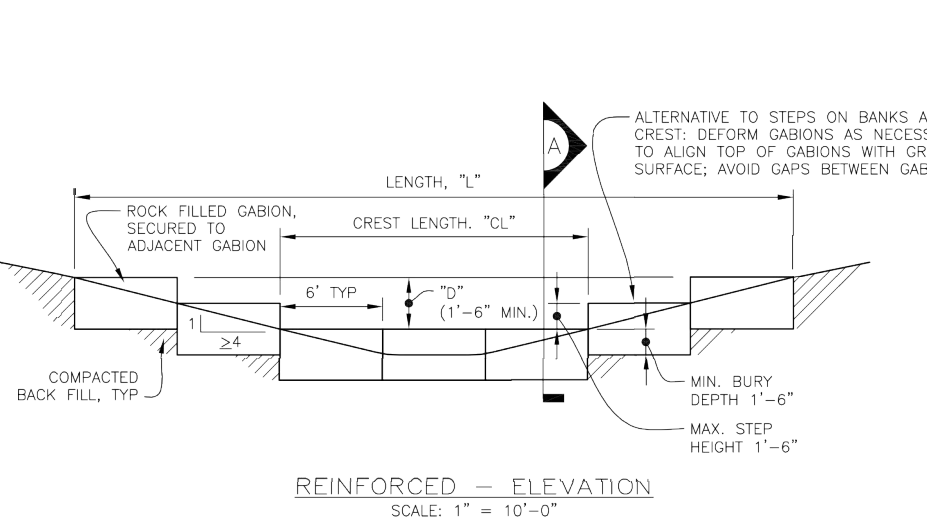
INLET PROTECTION MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT INLET PROTECTION WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY. MORE FREQUENT INSPECTIONS AND REPAIRS SHALL BE REQUIRED DURING WINTER CONDITIONS DUE TO FREEZE/THAW PROBLEMS.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF ROCK BERM IS WITHIN 2-1/2 INCHES OF THE CURB.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS THE CITY APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE GRILL SEEDING AND CHIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

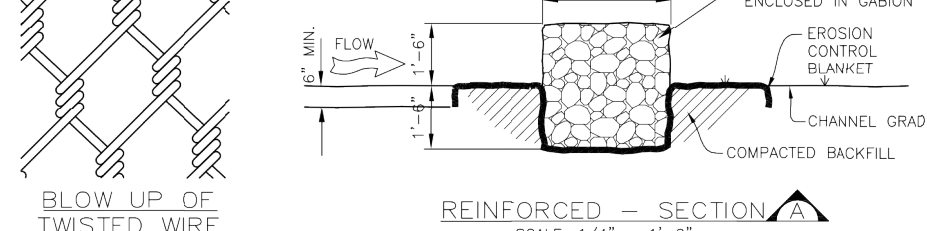


AREA INLET - PLAN SECTION

INLET PROTECTION 10



REINFORCED CHECK DAM - ELEVATION



REINFORCED CHECK DAM - SECTION

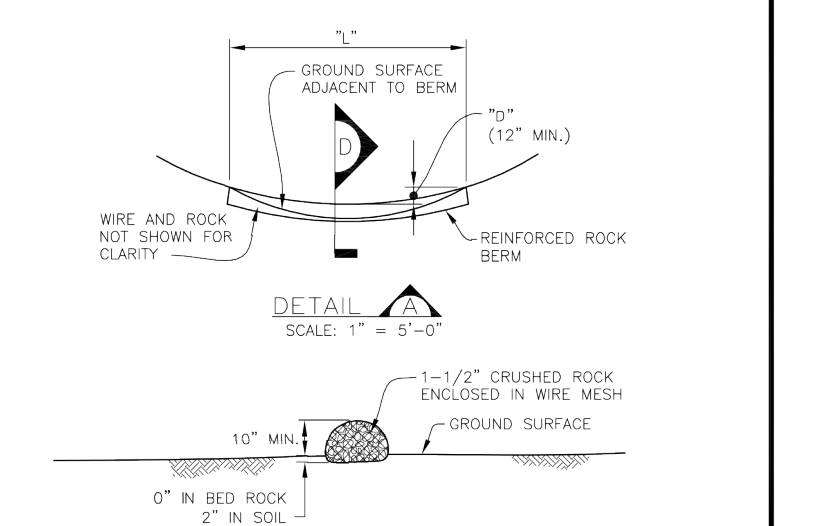
REINFORCED CHECK DAM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF CHECK DAMS.
  - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
  - LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
- CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
- REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4-1/2" AND A MINIMUM WIRE THICKNESS OF 0.10" WIRE "30" ANGLE AT 4" SPACING OR EQUIVALENT REINFORCED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO STAKE THE GABION TO THE ADJACENT GABION.
- RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A 3/4" MEDIAN STONE SIZE OF 6".
- THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-6".
- EROSION CONTROL BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1'-6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

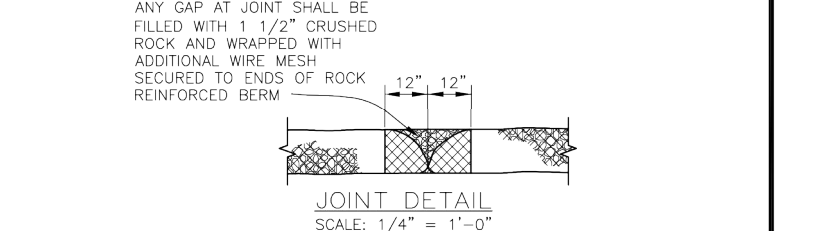
REINFORCED CHECK DAM MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 3" OF THE CREST.
- CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL, ANY DISTURBED AREA SHALL BE GRILL SEEDING AND CHIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

RCD REINFORCED CHECK DAM 11



REINFORCED ROCK BERM - ELEVATION



REINFORCED ROCK BERM - SECTION

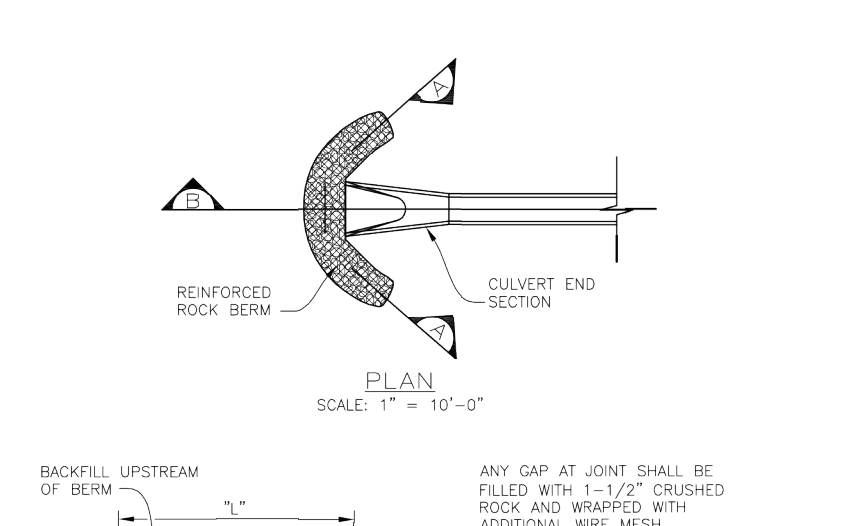
REINFORCED ROCK BERM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF REINFORCED ROCK BERMS.
  - LENGTH, "L", AND DEPTH, "D".
- REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- FOR CONCENTRATED FLOW AREAS THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.

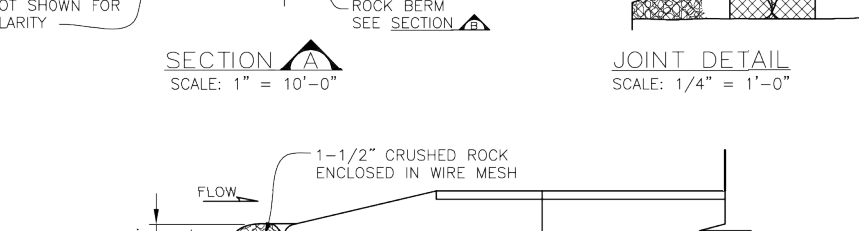
REINFORCED ROCK BERM MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT REINFORCED ROCK BERM WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS 3 INCHES OF THE CREST.
- REINFORCED ROCK BERMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED.
- WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE GRILL SEEDING AND CHIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

RRB REINFORCED ROCK BERM 12



RRB FOR CULVERT PROTECTION - PLAN



RRB FOR CULVERT PROTECTION - SECTION

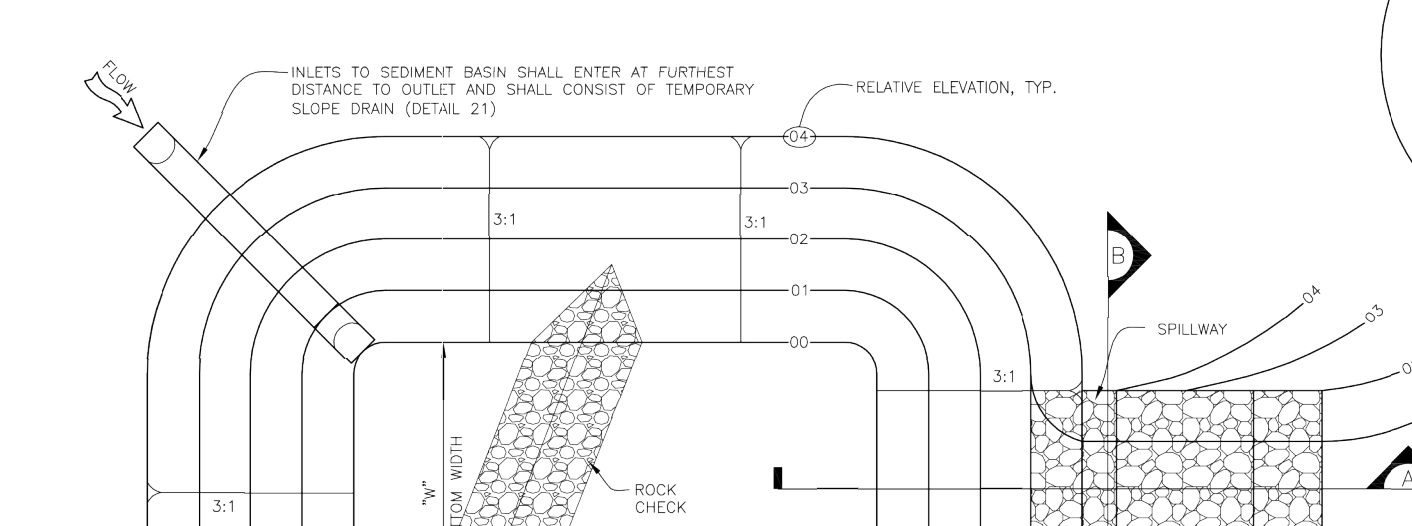
RRB FOR CULVERT PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF CULVERT INLET FILTERS.
  - LENGTH, "L", AND DEPTH, "D".
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.

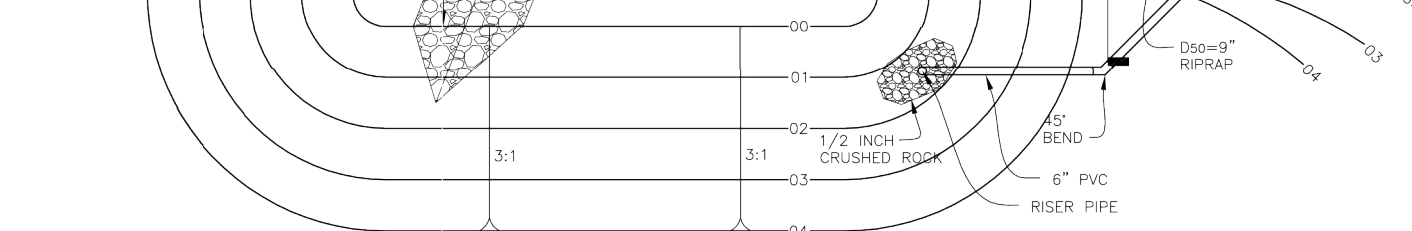
RRB FOR CULVERT PROTECTION MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT CULVERT INLET FILTER WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF CULVERT INLET FILTER SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS 3 INCHES OF THE HEIGHT OF THE REINFORCED ROCK BERM.
- RIPRAP FOR CULVERT PROTECTION ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- WHEN CULVERT INLET FILTERS ARE REMOVED, ANY DISTURBED AREA SHALL BE GRILL SEEDING AND CHIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

RRB FOR CULVERT PROTECTION 13



STANDARD BASIN - PLAN



STANDARD BASIN - SECTION

STANDARD BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF SEDIMENT BASIN.
  - TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN).
  - FOR STANDARD BASIN, CREST LENGTH, "CL", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "HD".
  - FOR NON-STANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, "H", NUMBER OF COLUMNS, "N", HOLE DIAMETER, "HD", AND PIPE DIAMETER, "D".
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY.
- EMBANKMENT MATERIAL SHALL COMPACTED TO SOIL FILL OF GEOTEXTILES, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASINS IDENTIFIED ON THE GESC PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT SEDIMENT BASIN WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED IN SEDIMENT BASIN SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 2.0 FEET OF THE CREST OF THE SPILLWAY.
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE GRILL SEEDING AND CHIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

SB SEDIMENT BASIN 14

Sheet Revisions

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 UDFCD, V3 FIGURE C5-23), MISC. NOTE EDITS	GAW

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



GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS

SHEET 2 OF 3

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DESIGNS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
SHEA HOMES  
9390 STATION STREET  
SUITE 600  
LONE TREE, CO 80124  
(303) 791-8180

J.R. ENGINEERING  
A Westman Company  
Central 303-740-9383 • Colorado Springs 719-583-2593  
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	NO.	REVISION	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

RIDGEGATE SW VILLAGE FLG 1  
INFRASTRUCTURE GESC PLANS  
GESC DETAILS

SHEET 40 OF 41  
JOB NO. 15950.01



