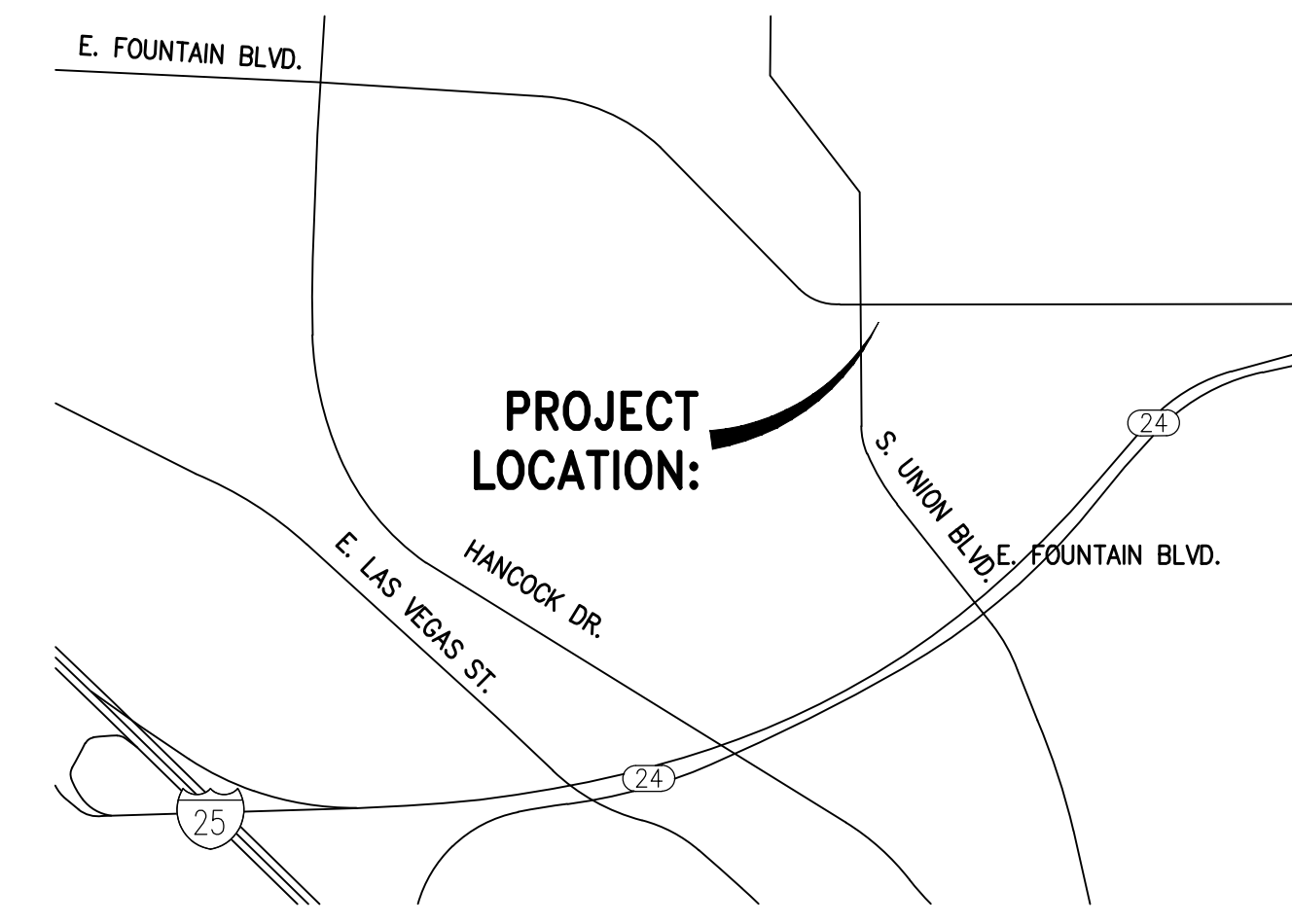


# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO



## VICINITY MAP

NOT TO SCALE



### SHEET INDEX

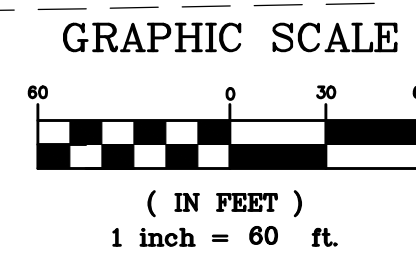
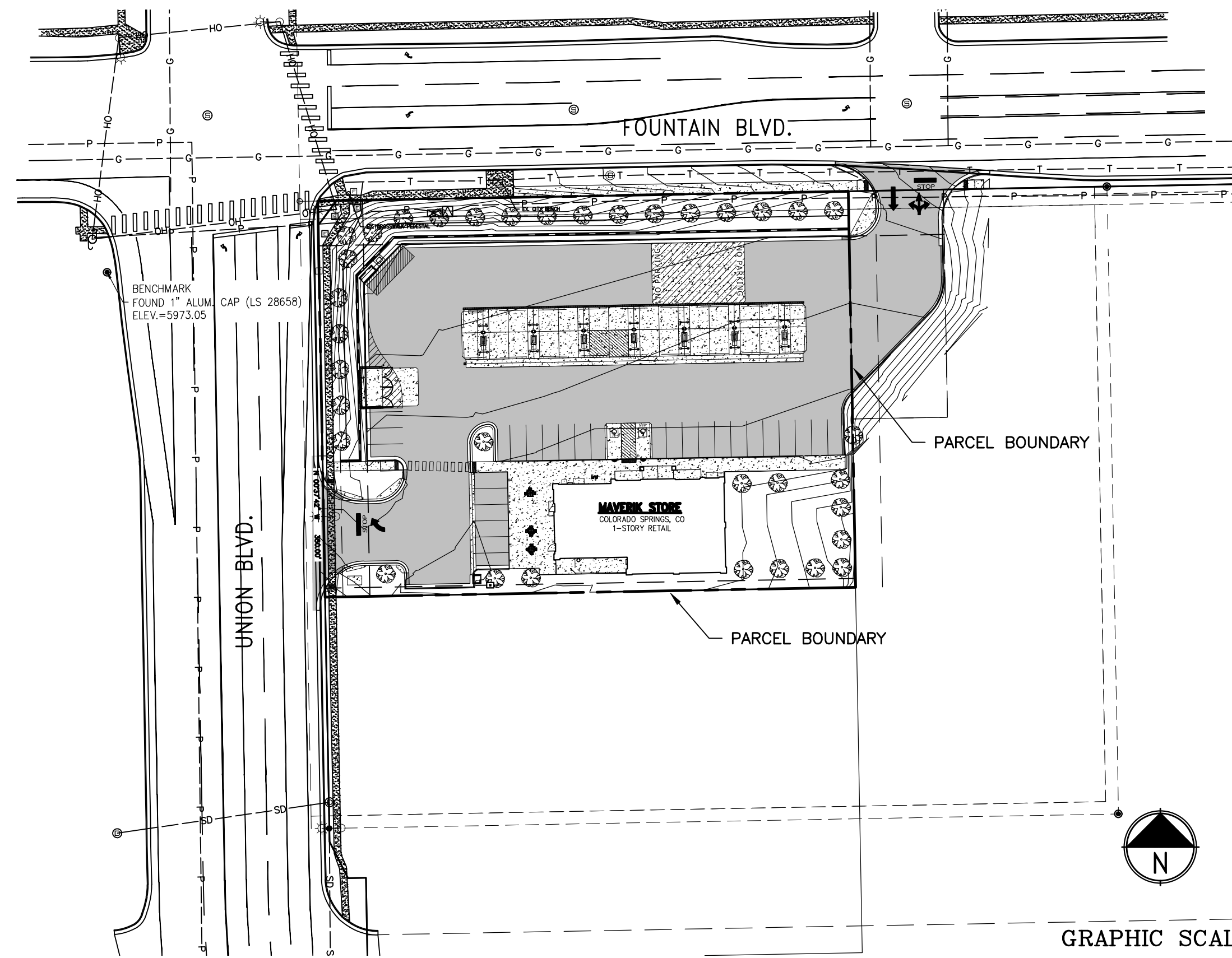
COVER SHEET	1
SITE PLAN	2
INITIAL GESC	3
INTERIM GESC	4
FINAL GESC	5
DETAILS	6
DETAILS	7

### DETAIL NO. SHEET NO.

1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	3
17	3
18	3
19	3
20	3
21	3
22	4
23	4
24	4
25	4
26	4

### LEGEND:

	<b>CBC</b> CUT BACK CURB
	<b>CD</b> CHECK DAM
	<b>CWA</b> CONCRETE WASHOUT AREA
	<b>CF</b> CONSTRUCTION FENCE
	<b>CM</b> CONSTRUCTION MARKERS
	<b>CS</b> CURB SOCK
	<b>DW</b> DEWATERING
	<b>DD</b> DIVERSION DITCH
	<b>ECB</b> EROSION CONTROL BLANKET
	<b>GMS</b> GROUT MIXING STATION
	<b>IP</b> INLET PROTECTION
	<b>RCD</b> REINFORCED CHECK DAM
	<b>RRB</b> REINFORCED ROCK BERM
	<b>RRB</b> RRB FOR CULVERT PROTECTION
	<b>SB</b> SEDIMENT BASIN
	<b>SCL</b> SEDIMENT CONTROL LOG
	<b>ST</b> SEDIMENT TRAP
	<b>SM</b> SEEDING AND MULCHING
	<b>SF</b> SILT FENCE
	<b>SID</b> SLOPE INTERCEPT DITCH
	<b>SSA</b> STABILIZED STAGING AREA
	<b>SR</b> SURFACE ROUGHENING
	<b>TSD</b> TEMPORARY SLOPE DRAIN
	<b>TSC</b> TEMPORARY STREAM CROSSING
	<b>VTC</b> VEHICLE TRACKING CONTROL
	<b>VW</b> VTC WITH WHEEL WASH
	<b>LOC</b> LIMIT OF CONSTRUCTION



### PROJECT TEAM:

#### DEVELOPER/APPLICANT:

MAVERIK INC.  
185 S. STATE STREET, SUITE 800  
SALT LAKE CITY, UT 84111  
CONTACT: CASSIE YOUNGER  
PHONE: (801) 936-5557

#### CIVIL ENGINEER:

DCI ENGINEERS  
1331 17TH STREET SUITE 605  
DENVER, CO 80202  
CONTACT: MANNY NUNO, P.E.  
PHONE: (720) 464-7728

#### LANDSCAPE ARCHITECT:

RUSSELL MILLS STUDIO  
2245 CURTIS STREET SUITE 100  
DENVER, CO 80205  
CONTACT: NATE STARK, R.L.A.  
PHONE: (303) 709-0704

#### APPLICANT:

DCI ENGINEERS  
1331 17TH STREET, SUITE 605  
DENVER, COLORADO 80202  
MANUEL NUNO P.E. (720) 439-4700

#### LEGAL DESCRIPTION:

LOT 1, EXCEPT THE WEST 10 FEET THEREOF, IN BLOCK 1 IN PROSPECT PARK SUBDIVISION NO. 6, IN THE CITY OF COLORADO SPRINGS, EL PASO COUNTY, COLORADO.

#### VERTICAL DATUM/BENCHMARK:

VERTICAL RELIEF WITH THE SOURCE OF INFORMATION (GROUND SURVEY), CONTOUR INTERVAL = 1 FOOT, DATUM, BENCHMARK IS A 1" ALUMINUM CAP (LS 28658) BENCHMARK=5973.05

#### BASIS OF BEARING:

BEARINGS SHOWN HEREON ARE BASED UPON THE NORTH LINE OF LOT 1, BLOCK 1, ALSO BEING THE SOUTH RIGHT-OF-WAY OF FOUNTAIN BOULEVARD, A 100-FOOT-WIDE PUBLIC RIGHT-OF-WAY, BEARS NORTH 89°22'02" EAST

#### FEMA FLOODPLAIN STATEMENT:

FLOOD ZONE CLASSIFICATION - THE SURVEYED PARCEL IS LOCATED WITHIN ZONE "X". "X" WHICH IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", AND SUCH FLOOD CONDITION IS SHOWN ON THE FEDERAL FLOOD INSURANCE RATE MAPS, COMMUNITY NO. 08041C0733G, DATED DECEMBER 7, 2018.

#### CONTRACTOR NOTE:

ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS AND SURVEYS FURNISHED BY OTHERS. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS AND SURVEYS. CONTACT THE UTILITY OWNER/AGENCY FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION.

#### GESC NOTE:

"THIS GRADING, EROSION AND SEDIMENT CONTROL (GESC) DOCUMENT HAS BEEN PLACED IN THE PROJECT FILE FOR THIS PROJECT AND APPEARS TO FULFILL THE LATEST VERSION OF THE GRADING, EROSION AND SEDIMENT CONTROL MANUAL. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS/HER AGENTS, DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC DOCUMENT SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER, OR HIS/HER DESIGNATED REPRESENTATIVE(S) UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED."

#### LANDOWNERS CERTIFICATION:

"I HEREBY CERTIFY THAT THE GRADING, EROSION, AND SEDIMENT CONTROL MEASURES FOR MAVERIK INC. STORE, AT FOUNTAIN BLVD. AND UNION BLVD., COLORADO SPRINGS, CO SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS DOCUMENT. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL, SEDIMENT CONTROL AND WATER QUALITY ENHANCING MEASURES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN POLLUTANT DISCHARGES OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THE PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS; UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED."

OWNER OR AUTHORIZED AGENT \_\_\_\_\_ DATE \_\_\_\_\_  
AUTHORIZED SIGNATURE \_\_\_\_\_

#### ENGINEERS CERTIFICATION:

"I HEREBY ATTEST THAT THIS GRADING, EROSION, AND SEDIMENT CONTROL (GESC) DOCUMENT FOR MAVERIK INC. STORE, AT FOUNTAIN BLVD. AND UNION BLVD., COLORADO SPRINGS, CO HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND ABILITY HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST VERSION OF THE GESC MANUAL. THE SIGNATURE AND STAMP AFFIXED HEREON CERTIFIES THAT THIS GESC DOCUMENT WAS PREPARED IN ACCORDANCE WITH THE REQUIRED REGULATIONS AND CRITERIA; HOWEVER, THE STAMP AND SIGNATURE DOES NOT CERTIFY OR GUARANTEE FUTURE PERFORMANCE OF THE EXECUTION OF THE PLAN BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING THE CONSTRUCTION WORK ACCORDING TO THE INFORMATION SET FORTH IN THE PLAN AND IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS."

REGISTERED PROFESSIONAL ENGINEER - DAMON A. SMITH  
STATE OF COLORADO NO. - 59516



PROJECT NUMBER

20-122-0012

ISSUE DATE:

OCTOBER 15, 2021

REVISIONS:

No.	Date	Description

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MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO



GESC  
COVER SHEET





# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO

PROJECT NUMBER

20-122-0012

ISSUE DATE:

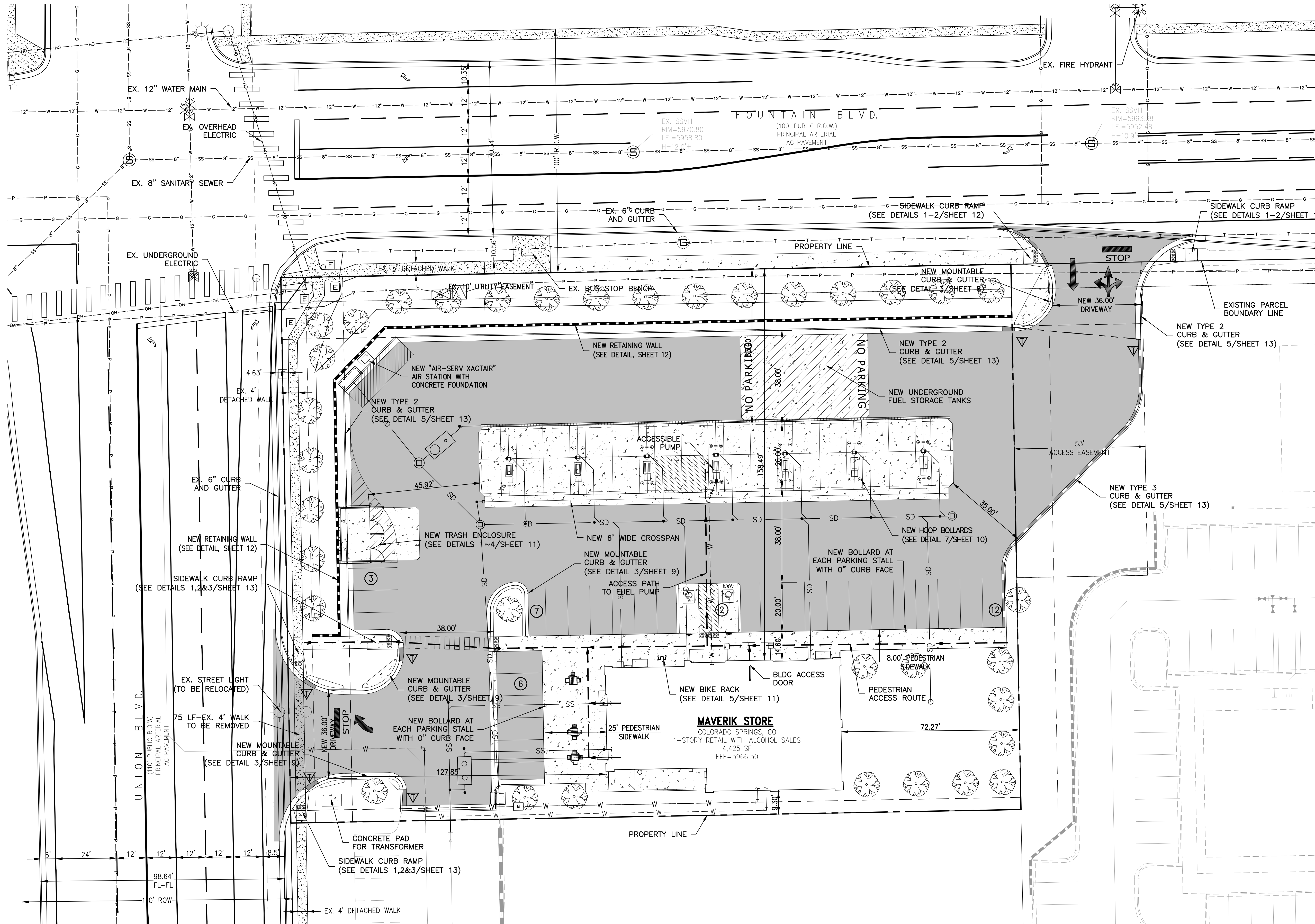
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REVISIONS:

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### VERTICAL DATUM/BENCHMARK:

VERTICAL RELIEF WITH THE SOURCE OF INFORMATION (GROUND SURVEY),  
CONTOUR INTERVAL = 1 FOOT, DATUM, BENCHMARK IS A 1" ALUMINUM  
CAP (LS 28658)

ELEVATION = 5973.05 FEET

### BASIS OF BEARING:

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BLOCK 1, ALSO BEING THE SOUTH RIGHT-OF-WAY OF FOUNTAIN  
BOULEVARD, A 100-FOOT-WIDE PUBLIC RIGHT-OF-WAY, BEARS NORTH  
89°22'02" EAST

### LEGEND:

- NEW ASPHALT PAVEMENT
- NEW CEMENT CONCRETE
- NEW 6" TYPE 2 CATCH CURB & GUTTER
- NEW 6" TYPE 3 SPILL CURB & GUTTER
- CURB & GUTTER TRANSITION
- NEW RETAINING WALL
- PEDESTRIAN/ADA ACCESS ROUTE

### PARKING COUNT TABLE

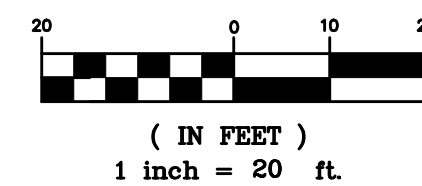
NEW STANDARD SPACES (9'x20')	28
(SEE DETAIL 6/SHEET 10)	
NEW COMPACT SPACES	NONE
NEW STANDARD ACCESSIBLE SPACES	1
(SEE DETAILS 5, 6/SHEET 10)	
NEW STANDARD VAN ACCESSIBLE SPACES	1
TOTAL SPACES PROVIDED	30

### ENGINEER'S NOTE ON ADA DESIGN:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE US DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY THE CITY OF COLORADO SPRINGS DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS. SOLE RESPONSIBILITY FOR COMPLIANCE WITH FEDERAL AND STATE ACCESSIBILITY LAWS LIES WITH THE PROPERTY OWNER.



GRAPHIC SCALE



### CONTRACTOR NOTE:

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**MAVERIK INC. STORE**  
 FOUNTAIN BLVD. AND UNION BLVD.  
 COLORADO SPRINGS, CO

**EDCI**  
 ENGINEERS  
 1331 17TH STREET • SUITE 605  
 DENVER, COLORADO 80202  
 PHONE: (720) 439-4700  
 WEBSITE: www.edci-engineers.com  
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**GESC**  
 SITE PLAN



Plot Date: 2021-10-14 File Location: O:\2020-Denver\DC-Civil\Projects\2020\20122-0012\GESC.dwg



# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO

PROJECT NUMBER

20-122-0012

ISSUE DATE:

OCTOBER 15, 2021

REVISIONS:

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**MAVERIK INC. STORE**  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO

**EDCI**  
ENGINEERS  
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**GESC**  
INITIAL PLAN

## LEGEND:

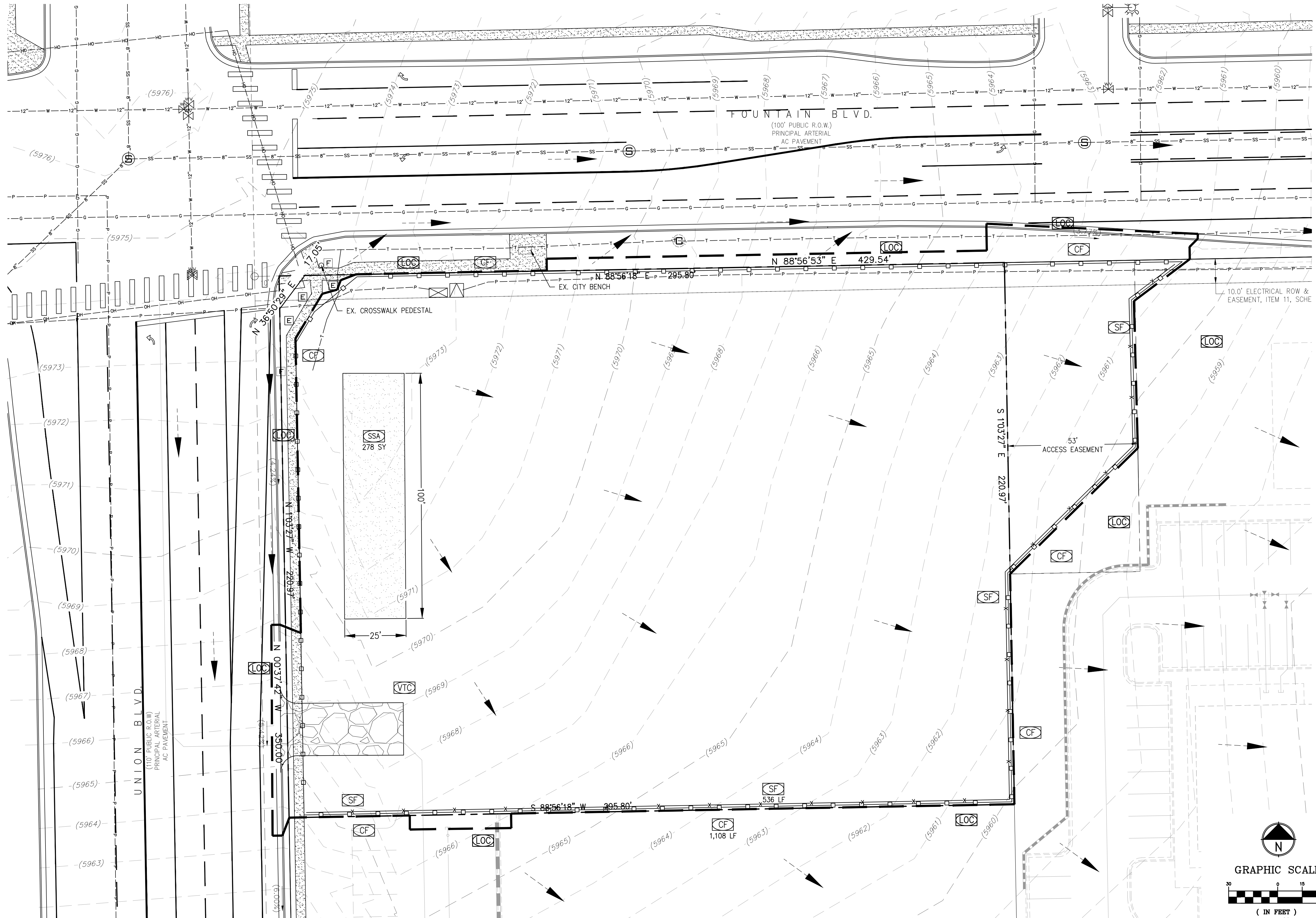
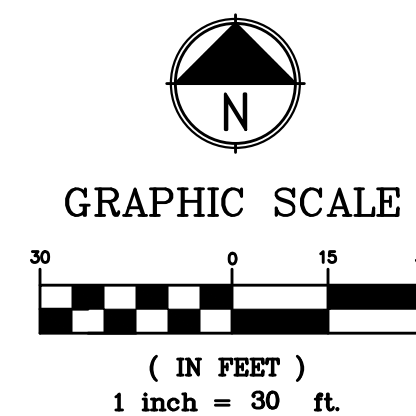
- OCB** OUT BACK CURB
- CD** CHECK DAM
- CF** CONSTRUCTION FENCE (X,XXX LF)
- CS** CURB SOCK
- CWA** CONCRETE WASHOUT AREA (1 EA)
- DW** DEWATERING
- DD** DIVERSION DITCH (660 LF)
- ECB** EROSION CONTROL BLANKET (XXX SY)
- IP** INLET PROTECTION
- SB** SEDIMENT BASIN
- SC** SEDIMENT CONTROL LOG
- ST** SEDIMENT TRAP
- SF** SILT FENCE (X,XXX LF)
- SR** SURFACE ROUGHENING
- SSA** STABILIZED STAGING AREA (X,XXX SY)
- VTC** VEHICLE TRACKING CONTROL (1 EA)
- LOC** LIMITS OF CONSTRUCTION
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION

## NOTES:

- APPROPRIATE CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO START OF ACTIVITY, MUST CONTROL POTENTIAL POLLUTANTS DURING EACH PHASE OF CONSTRUCTION AND MUST BE CONTINUED THROUGH FINAL STABILIZATION. APPROPRIATE STRUCTURAL CONTROL MEASURES MUST BE MAINTAINED IN OPERATIONAL CONDITION.
- ANY CONTROL MEASURES THAT REQUIRE GRADING, (E.G. SEDIMENT BASINS, SEDIMENT TRAPS, CONCRETE WASH-OUT AREAS, ETC.), SHALL NOT BE PLACED UNTIL AFTER THE PRE-CONSTRUCTION MEETING AND ISSUANCE OF THE GESC PERMIT, BUT MUST BE FULLY FUNCTIONAL PRIOR TO ANY LARGE SCALE GRADING. THE INITIAL PLAN ILLUSTRATES EXISTING CONDITIONS. NO PROPOSED INFRASTRUCTURE IS SHOWN.

## CONTRACTOR NOTE:

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Plot Date: 2021-10-14 File Location: O:\1200-Denver\DC-Civil\Projects\2020\20122-0012-Maverik Colorado Springs CO\20122-0012GESC.dwg



# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
**MAVERIK INC. STORE**  
 FOUNTAIN BLVD. AND UNION BLVD.  
 COLORADO SPRINGS, CO

PROJECT NUMBER

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ISSUE DATE:

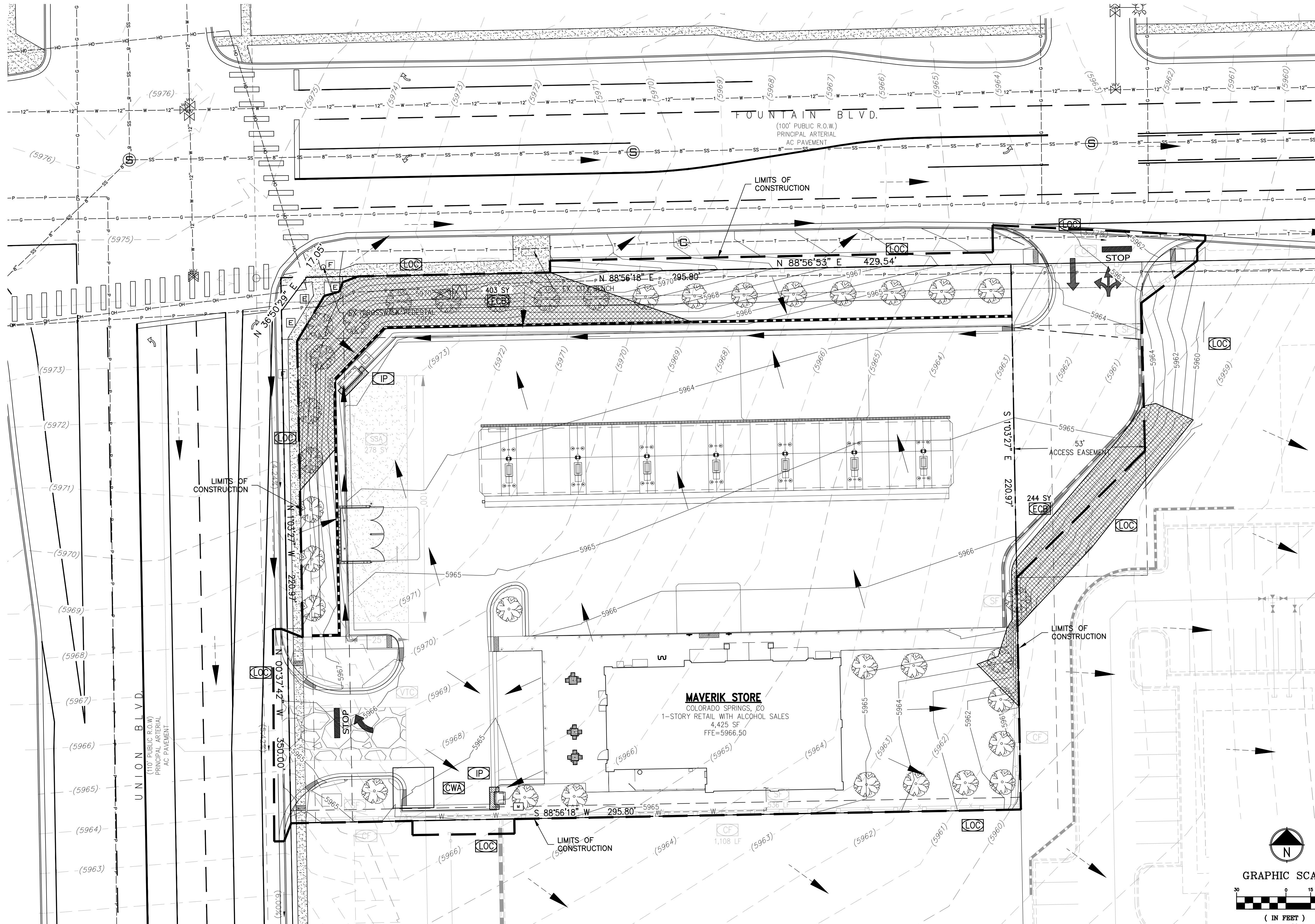
OCTOBER 15, 2021

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**LEGEND:**

	CONSTRUCTION FENCE (X,XXX LF)
	CURB SOCK
	CONCRETE WASHOUT AREA (1 EA)
	EROSION CONTROL BLANKET (XXX SY)
	INLET PROTECTION
	SEDIMENT CONTROL LOG
	SILT FENCE (X,XXX LF)
	STABILIZED STAGING AREA (X,XXX SY)
	VEHICLE TRACKING CONTROL (1 EA)
	LIMITS OF CONSTRUCTION
	EXISTING FLOW DIRECTION
	PROPOSED FLOW DIRECTION

- NOTES:**
- APPROPRIATE CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO START OF ACTIVITY. MUST CONTROL POTENTIAL POLLUTANTS DURING EACH PHASE OF CONSTRUCTION AND MUST BE CONTINUED THROUGH FINAL STABILIZATION. APPROPRIATE STRUCTURAL CONTROL MEASURES MUST BE MAINTAINED IN OPERATIONAL CONDITION.
  - SCREENED/SHADED CONTROL MEASURES WERE INSTALLED IN THE INITIAL STAGE AND SHALL BE LEFT IN PLACE IN THE INTERIM STAGE UNLESS OTHERWISE NOTED.
  - CONTROL MEASURES, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS IF THE AREAS WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.
  - ALL PROPOSED SLOPES ON THIS PLAN HAVE A MAXIMUM SLOPE OF 4:1. ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR FLEXIBLE GROWTH MEDIUM, AS APPROVED BY INSPECTOR.
  - ASPHALT AND CONCRETE "TAILINGS" FROM SAWCUT OPERATIONS SHALL BE CLEANED USING A VACUUM-TYPE STREET SWEEPER, A BRUSH STYLE STREET SWEEPER, OR MANUALLY USING SHOVELS AND BROOMS. PAVEMENT SHALL NOT BE WASHED WITH WATER AT ANY TIME UNLESS ALL WATER IS CONTAINED AND COLLECTED AND IS NOT ALLOWED TO DRAIN INTO EXISTING STORM CONVEYANCES, ON OR OFF SITE.

**EARTHWORK QUANTITIES:**

CUT: 6,025	CY	IMPORT: 00	CY
FILL: 1,977	CY	EXPORT: 4,048	CY*

\* SOIL TO BE REPROCESSED AND REUSED. FINAL DETERMINATION OF SUITABILITY OF SOIL TO BE DETERMINED BY GEOTECHNICAL ENGINEER IN THE FIELD

**CONTRACTOR NOTE:**  
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 FOUNTAIN BLVD. AND UNION BLVD.  
 COLORADO SPRINGS, CO

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**GESC INTERIM PLAN**



Plot Date: 2021-10-14 File Location: O:\2020-Denver\DC-Civil\Projects\2020\20122-0012\Maverik Colorado Springs CO\20122-0012\GESC.dwg



# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO

PROJECT NUMBER

20-122-0012

ISSUE DATE:

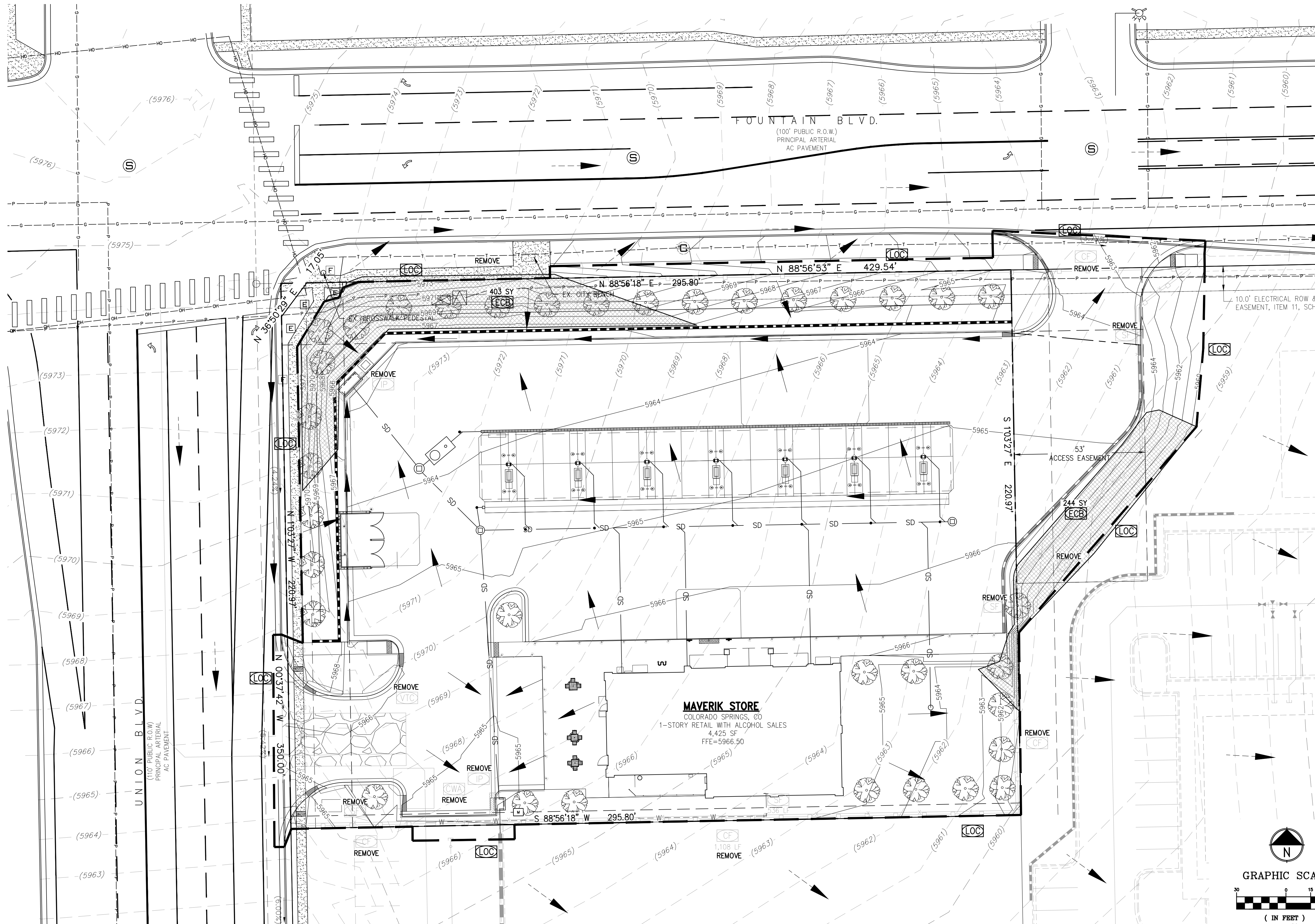
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REVISIONS:

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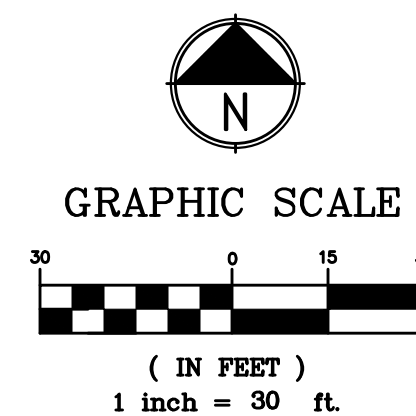


**LEGEND:**

	CONSTRUCTION FENCE (X,XXX LF)
	CURB SOCK
	CONCRETE WASHOUT AREA (1 EA)
	EROSION CONTROL BLANKET (XXX SY)
	INLET PROTECTION
	SEDIMENT CONTROL LOG
	SILT FENCE (X,XXX LF)
	STABILIZED STAGING AREA (X,XXX SY)
	VEHICLE TRACKING CONTROL (1 EA)
	LIMITS OF CONSTRUCTION
	EXISTING FLOW DIRECTION
	PROPOSED FLOW DIRECTION

- NOTES:**
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  - CONTROL MEASURES, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS IF THE AREAS WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.
  - ALL PROPOSED SLOPES ON THIS PLAN HAVE A MAXIMUM SLOPE OF 4:1. ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR FLEXIBLE GROWTH MEDIUM, AS APPROVED BY INSPECTOR.
  - STREET SWEEPING (SS) OPERATIONS SHALL UTILIZE A VACUUM-TYPE STREET SWEEPER, A BRUSH STYLE STREET SWEEPER, OR MANUALLY USING SHOVELS AND BROOMS. PAVEMENT SHALL NOT BE WASHED WITH WATER AT ANY TIME UNLESS ALL WATER IS CONTAINED AND COLLECTED AND IS NOT ALLOWED TO DRAIN INTO EXISTING STORM CONVEYANCES, ON OR OFF SITE.

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COLORADO SPRINGS, CO

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**GESC FINAL PLAN**



Plot Date: 2021-10-14 File Location: O:\2020-Denver\DC-Civil\Projects\2020\20122-0012\Maverik Colorado Springs CO\20122-0012\GESC.dwg



# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO

PROJECT NUMBER

20-122-0012

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MAVERIK INC. STORE  
FOUNTAIN BLVD. AND UNION BLVD.  
COLORADO SPRINGS, CO



GESC  
DETAILS

**CONCRETE WASHOUT AREA PLAN**

**SECTION A-A'**

CONCRETE WASHOUT SIGN  
6'x8' MIN.  
4"  
10' MIN.  
COMPACTED BERM (SEE TEMPORARY COMPACTED BERM DETAIL)  
6" MINUS ROCK\*

\*ROCK REQUIRED BASED ON SITE CONDITIONS AT THE DISCRETION OF THE GEC INSPECTOR

**CONCRETE WASHOUT AREA**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-CWA-1

**INSTALLATION NOTES**

- SEE PLAN VIEW FOR LOCATION OF CONCRETE WASHOUT AREA. LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
- AN IMPERMEABLE LINER (16 MIL MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES. DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
- THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8".
- BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
- CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
- SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 1/2 THE HEIGHT OF THE CONCRETE WASH AREA.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.

**CONCRETE WASHOUT AREA**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-CWA-2

**EROSION CONTROL BLANKET**

STAKING PATTERN PER MANUFACTURER SPECIFICATION OR 18" O.C.  
OVERLAPPING JOINT  
6" OVERLAP  
KEY IN EDGES  
6" OVERLAP (TYPICAL)

PERIMETER ANCHOR TRENCH  
JOINT ANCHOR TRENCH  
INTERMEDIATE CHECK SLOT  
OVERLAPPING JOINT  
STAPLE CHECK TO BE USED ON SLOPE EVERY 15 FEET

**EROSION CONTROL BLANKET**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-ECB-1

**INSTALLATION NOTES**

- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE REQUIRED FOR EROSION CONTROL BLANKETS. TRM PRODUCTS MAY BE USED WHERE APPROPRIATE AS DESIGNATED BY THE ENGINEER.
- IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOST PRIOR TO EROSION CONTROL BLANKET INSTALLATION, AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH THE SUBGRADE. NO GAPS OR Voids SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL EROSION CONTROL BLANKETS.
- INTERMEDIATE CHECK SLOT OR STAPLE CHECK SHALL BE INSTALLED EVERY 15' DOWN SLOPES IN DRAINAGEWAYS. INSTALL CHECK SLOTS EVERY 25' PERPENDICULAR TO FLOW DIRECTION.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER FOR EROSION CONTROL BLANKETS ON SLOPES.
- MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKETS SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKETS SHALL BE RESEED AND MULCHED.
- STRAW EROSION CONTROL BLANKETS SHALL NOT BE USED WITHIN STREAMS AND DRAINAGE CHANNELS.
- COMPACT ALL TRENCHES.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- EROSION CONTROL BLANKETS SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE. TRM MUST BE REMOVED AT THE DISCRETION OF THE GEC INSPECTOR.
- ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW GEOTEXTILE THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING
STRAW	-	100%	-	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN.	70% MAX.	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

**EROSION CONTROL BLANKET**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-ECB-2

**CURB INLET PROTECTION PLAN**

**SECTION A-A'**

ROCK SOCK (SEE ALTERNATIVE BELOW)  
TOP BACK OF CURB  
CURB FL.  
ROCK SOCK  
12" MIN.  
12" MIN.  
2x4 WOOD STUD OR 3" PVC  
INLET

**CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**

SEE ROCK SOCK DETAIL FOR OVERLAP  
CURB ROCK SOCKS (MIN. OF 2)  
±40°  
5' MIN.  
5' MIN.  
CURB FL.  
SEDIMENT CONTROL LOG (ALTERNATIVE)  
INLET

**ON-GRADE INLET PROTECTION**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-IP-1

**PORTABLE TOILET PLAN**

CONTRACTOR SHALL ANCHOR PORTABLE TOILET TO THE GROUND, AT A MINIMUM OF TWO OPPOSING CORNERS (ON A DIAGONAL) USING U-SHAPED REBAR STAKES

TOP BACK OF CURB, ATTACHED SIDEWALK, OR OTHER IMPERVIOUS AREAS  
PORTABLE TOILET (TYPICAL)  
10' MIN.  
EDGE OF ASPHALT  
CURB & GUTTER

**ISOMETRIC**

CONTRACTOR SHALL ANCHOR PORTABLE TOILET TO THE GROUND, AT A MINIMUM OF TWO OPPOSING CORNERS (ON A DIAGONAL) USING U-SHAPED REBAR STAKES OR OTHER EFFECTIVE ANCHORING

**PORTABLE TOILET**

APPROVED: [Signature]  
DATE: 2/19/19  
REVISION: 8/19/2020  
DRAWING NO. 900-PT

**SEDIMENT CONTROL LOG JOINTS**

4" MAX. ON CENTER (TYPICAL)  
1"x1"x18" (MIN.) WOODEN STAKE  
9" DIAMETER (MIN.) SEDIMENT CONTROL LOG  
FLOW  
1/2 DIA. OF SCL (TYP.)

**SECTION A-A'**

9" DIAMETER (MIN.) SEDIMENT CONTROL LOG  
CENTER STAKE IN CONTROL LOG  
1/2 DIA. SCL (TYP.)  
6" MIN.  
12" OVERLAP (MIN.)  
9" DIAMETER (MIN.) SEDIMENT CONTROL LOG  
1"x1"x18" (MIN.) WOODEN STAKE

**SEDIMENT CONTROL LOGS**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-SCL

**SILT FENCE**

10' MAX. SPACING  
18" MIN.  
18" MIN.  
18" MIN.  
1 1/2"x1 1/2" (RECOMMENDED) WOODEN FENCE POST WITH 10" MAX. SPACING  
GEOTEXTILE  
FLOW  
6" MIN.  
36"-48"  
4" MIN.

**J-HOOK INSTALLATION**

10' MAX. SPACING  
18" MIN.  
18" MIN.  
18" MIN.  
1 1/2"x1 1/2" (RECOMMENDED) WOODEN FENCE POST WITH 10" MAX. SPACING  
GEOTEXTILE  
FLOW  
6" MIN.  
36"-48"  
4" MIN.

**SECTION A-A'**

POSTS SHOULD OVERLAP SO THAT NO GAPS EXIST  
JOIN FIRST  
THEN ROTATE

**SILT FENCE**

APPROVED: [Signature]  
DATE: 10/7/19  
REVISION: 8/19/2020  
DRAWING NO. 900-SF





# GRADING, EROSION AND SEDIMENT CONTROL PLAN

FOR  
**MAVERIK INC. STORE**  
 FOUNTAIN BLVD. AND UNION BLVD.  
 COLORADO SPRINGS, CO

PROJECT NUMBER

20-122-0012

ISSUE DATE:

OCTOBER 15, 2021

REVISIONS:

No.	Date	Description

NOTE:  
 Bid documents should not be separated or issued as partial sets to subcontractors. Bidders are responsible for all portions of the documents that pertain to work covered by sub-bids. Bidder assumes full responsibility for error or misinterpretations resulting from partial sets of Bidding Documents by itself or any sub-bidder.

Conflicting information or errors found in the construction documents should be brought to the attention of the architect immediately. In the event of a conflict in drawings, bidder should not assume the least expensive option will meet the project requirements.



**MAVERIK INC. STORE**  
 FOUNTAIN BLVD. AND UNION BLVD.  
 COLORADO SPRINGS, CO



GESC  
 DETAILS



### AGGREGATE VEHICLE TRACKING CONTROL

**SECTION A-A'**

**INSTALLATION NOTES**

1. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOULD BE LOCATED AT ALL POINTS WHERE VEHICLES EXIT THE CONSTRUCTION SITE TO ADJACENT ROADWAY.
2. STABILIZED CONSTRUCTION ENTRANCE/EXITS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. RADIUS MUST BE ADEQUATE FOR INTENDED CONSTRUCTION VEHICLE TURNING.
4. ROCK SHOULD CONSIST OF 6" MINUS ROCK.
5. INSTALL CONSTRUCTION FENCE ON BOTH SIDES OF VEHICLE TRACKING CONTROL PAD WHEN NEEDED OR REQUIRED BY INSPECTOR.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. SEDIMENT TRACKED ONTO THE ADJACENT ROAD SHALL BE REMOVED DAILY, BY SWEEPING OR SHOVELING, AND NEVER WASHED DOWN STORM DRAINS.
3. ROUGHEN, REPLACE AND/OR ADD ROCK AS NEEDED TO MAINTAIN CONSISTENT DEPTH AND TO PREVENT SEDIMENT TRACKING ONTO ADJACENT STREET.
4. PERMANENTLY STABILIZE AREA AFTER VEHICLE TRACKING CONTROL IS REMOVED.

STORMWATER ENTERPRISE		VEHICLE TRACKING CONTROL	
APPROVED:		APPROVED:	
SHEET MANAGER:		SHEET MANAGER:	
ISSUED:	10/7/21	REVISED:	8/19/2020
DRAWING NO.:	900-VTC	DRAWING NO.:	900-VTC

### STOCKPILE PROTECTION PLAN

### STOCKPILE PROTECTION ELEVATION

**INSTALLATION NOTES**

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

STORMWATER ENTERPRISE		STOCKPILE PROTECTION	
APPROVED:		APPROVED:	
SHEET MANAGER:		SHEET MANAGER:	
ISSUED:	10/7/21	REVISED:	8/19/2020
DRAWING NO.:	900-SP	DRAWING NO.:	900-SP

### SEEDING & MULCHING

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

**SOIL PREPARATION**

1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

**SEEDING**

1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
3. BROADCAST SEEDING OR HYDRO-SEEDED WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
4. SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLIANT DRILL OR HYDRO-SEEDED.
5. BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL.

**MULCHING**

1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
  - HAY OR STRAW MULCH
  - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
  - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
  - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
  - HYDRAULIC MULCHING
  - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
  - IF HYDRO-SEEDED IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
  - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
  - EROSION CONTROL BLANKET
  - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

STORMWATER ENTERPRISE		SEEDING & MULCHING	
APPROVED:		APPROVED:	
SHEET MANAGER:		SHEET MANAGER:	
ISSUED:	10/7/21	REVISED:	8/19/2020
DRAWING NO.:	900-SM	DRAWING NO.:	900-SM