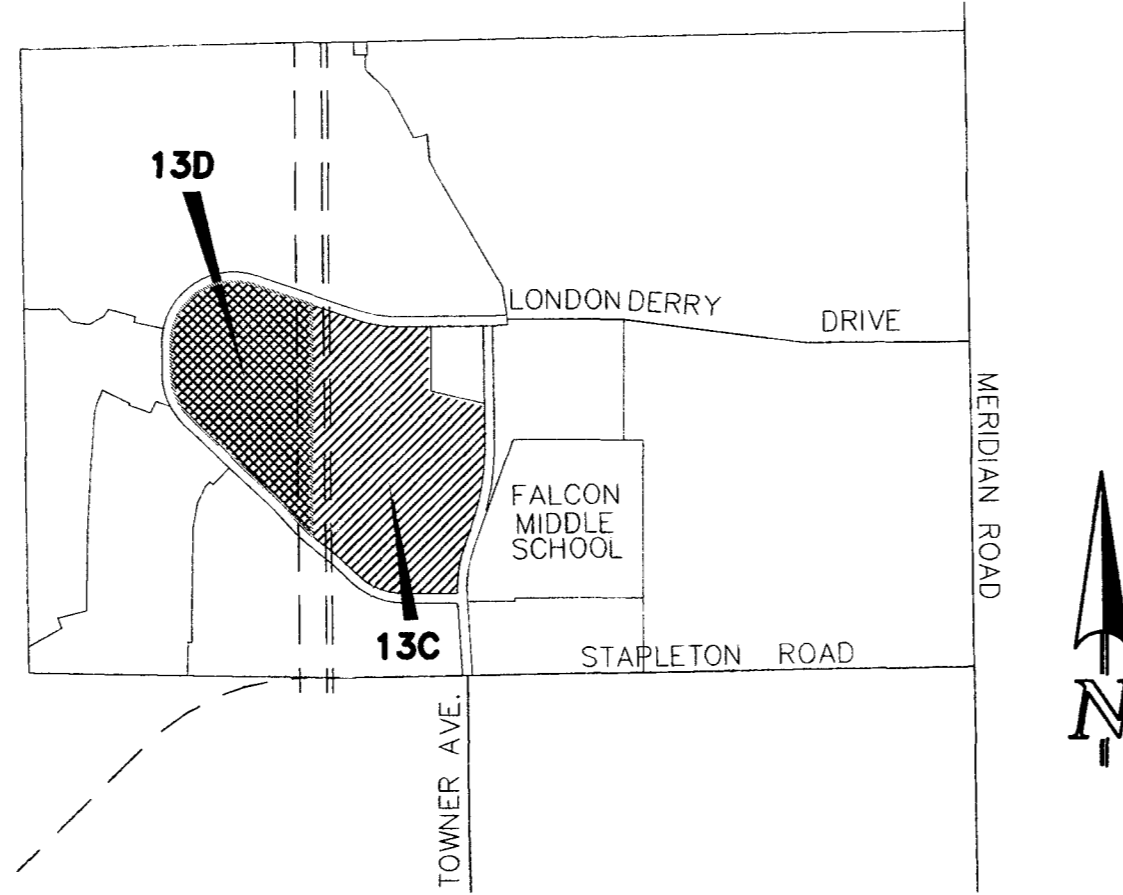


PAINT BRUSH HILLS FILING 13C & 13D
COUNTY OF EL PASO, STATE OF COLORADO
GRADING AND EROSION CONTROL PLAN
NOVEMBER 2016



VICINITY MAP
NTS

EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

- [illegible]

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

SHEET INDEX

SHEET 1 OF 4	TITLE SHEET
SHEET 2 OF 4	FILING 13C PLAN
SHEET 3 OF 4	FILING 13D PLAN
SHEET 4 OF 4	EROSION CONTROL DETAILS

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

MARC A WHORTON, COLORADO P.E. #37155
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

2/17/17
DATE

OWNER/DEVELOPER STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN

Jeff Mark
JEFF MARK, PRESIDENT

2/10/17

EL PASO COUNTY:


COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

22 FEB 2017
DATE

PCD PROJECT NO. SF-16-015

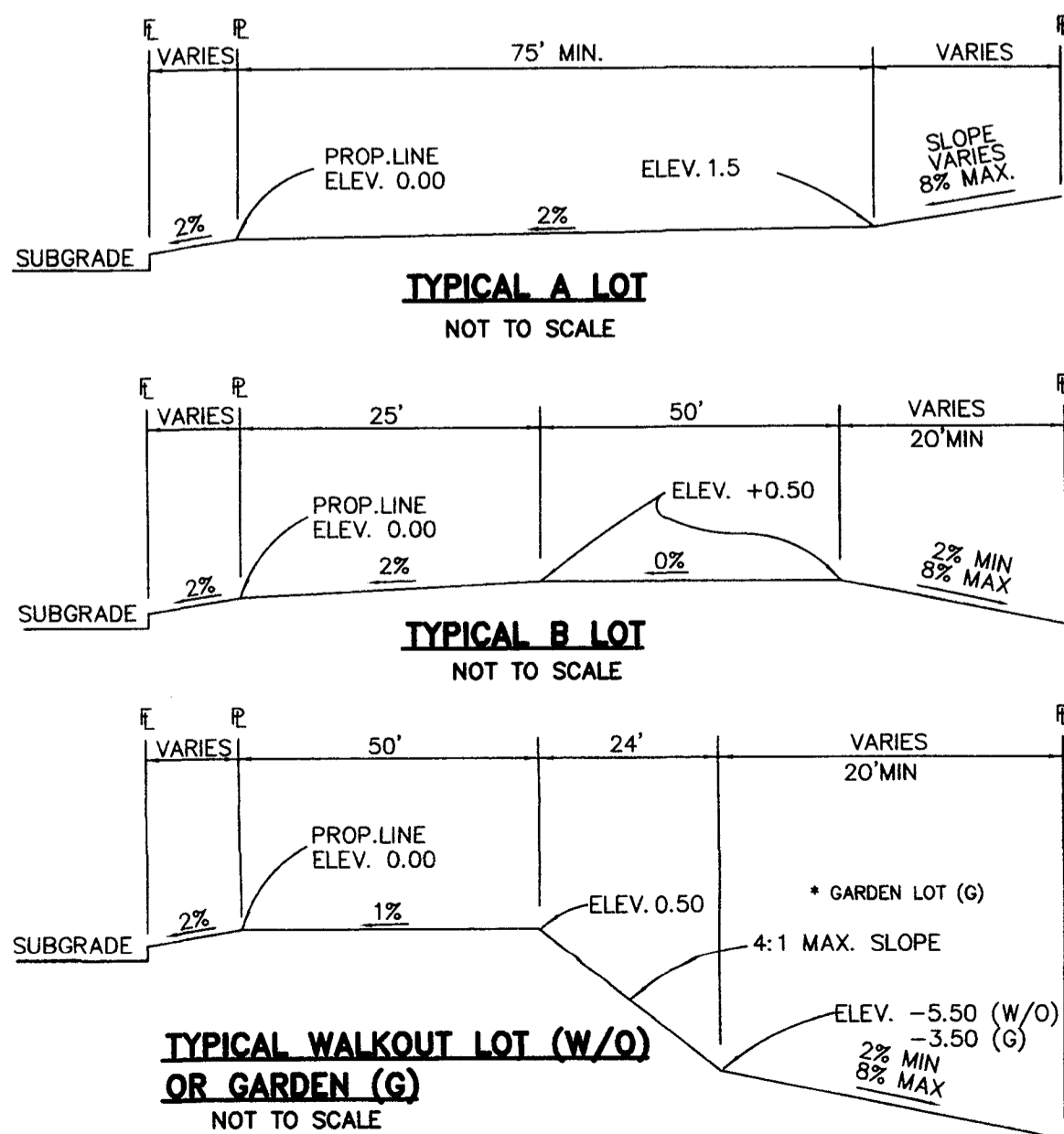
<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p style="text-align: center;">811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">NO. REVISION</th> <th style="width: 50%;">DATE</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	NO. REVISION	DATE																			<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="text-align: right;">2/3/17</p> <p>MARC A. WHORTON, COLORADO P.E. #37155 DATE</p>	<div style="border: 2px solid black; padding: 5px; text-align: center;">  <p>CLASSICSM</p> <p>CONSULTING ENGINEERS & SURVEYORS</p> </div> <p>619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799(fax)</p>	<p>PAINT BRUSH HILLS FIL. 13C & 13D GRADING & EROSION CONTROL PLAN</p> <p>TITLE SHEET</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DESIGNED BY</td> <td style="width: 25%;">MAW</td> <td style="width: 25%;">SCALE</td> <td style="width: 25%;">DATE</td> <td style="width: 20%;">11/15/16</td> </tr> <tr> <td>DRAWN BY</td> <td>MAW</td> <td>(H) 1"= N/A</td> <td>SHEET</td> <td>1 OF 4</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1"= N/A</td> <td></td> <td>JOB NO.</td> <td>2053.40</td> </tr> </table>	DESIGNED BY	MAW	SCALE	DATE	11/15/16	DRAWN BY	MAW	(H) 1"= N/A	SHEET	1 OF 4	CHECKED BY	(V) 1"= N/A		JOB NO.	2053.40
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NOTES:

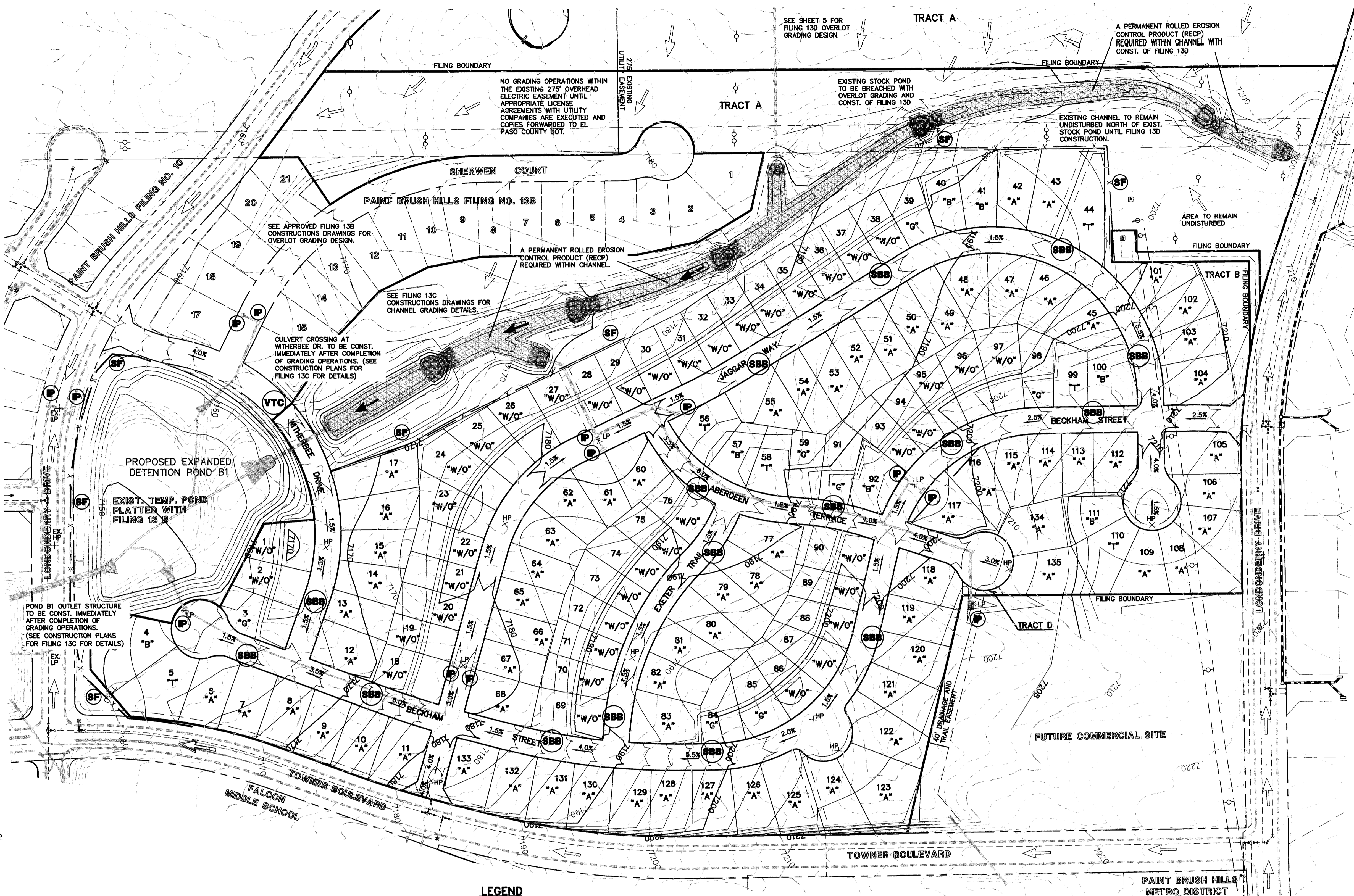
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE (ONE ACRE OR MORE AFTER JULY 1, 2022), THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

- ALL DISTURBED AREAS TO BE RESEEDED UPON COMPLETION OF OVERLOT GRADING AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED OR WITHIN 60 DAYS, WHICHEVER IS LESS.
- SEE SHEET 1 FOR EROSION CONTROL NOTES AND SHEET 4 FOR EROSION CONTROL DETAILS.



TYPICAL LOT TEMPLATES



LEGEND

- SILT FENCE
- STRAW BALE BARRIER
- VEHICLE TRACKING CONTROL
- INLET PROTECTION
- PERMANENT EROSION CONTROL BLANKET AREA

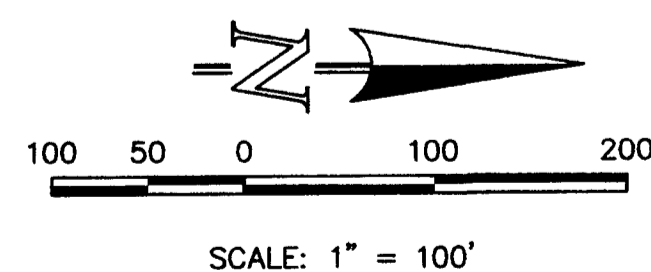
- EXISTING GROUND CONTOUR
- PROPOSED FINISHED CONTOUR
- FLOW DIRECTION
- EXISTING FLOW
- DAYLIGHT LINE
- SILT FENCE
- FILING BOUNDARY

- H.P. HIGH POINT
- L.P. LOW POINT
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT

SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

- INSTALL INITIAL BMP'S
- INSPECTION OF INITIAL BMP'S BY COUNTY STAFF
- PRECONSTRUCTION MEETING WITH COUNTY STAFF

BEGIN CONSTRUCTION UPON APPROVAL	ACTIVITY ALL SITE ROADWAY GRADING AND UTILITY INSTALLATION	COMPLETION 6 MONTHS	EROSION CONTROL ALL SHOWN ON GRADING PLAN
----------------------------------	--	---------------------	---



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811

UTILITY NOTIFICATION OF COLORADO
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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	1-9-17

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE

CLASSIC
CONSULTING
ENGINEERS & SURVEYORS

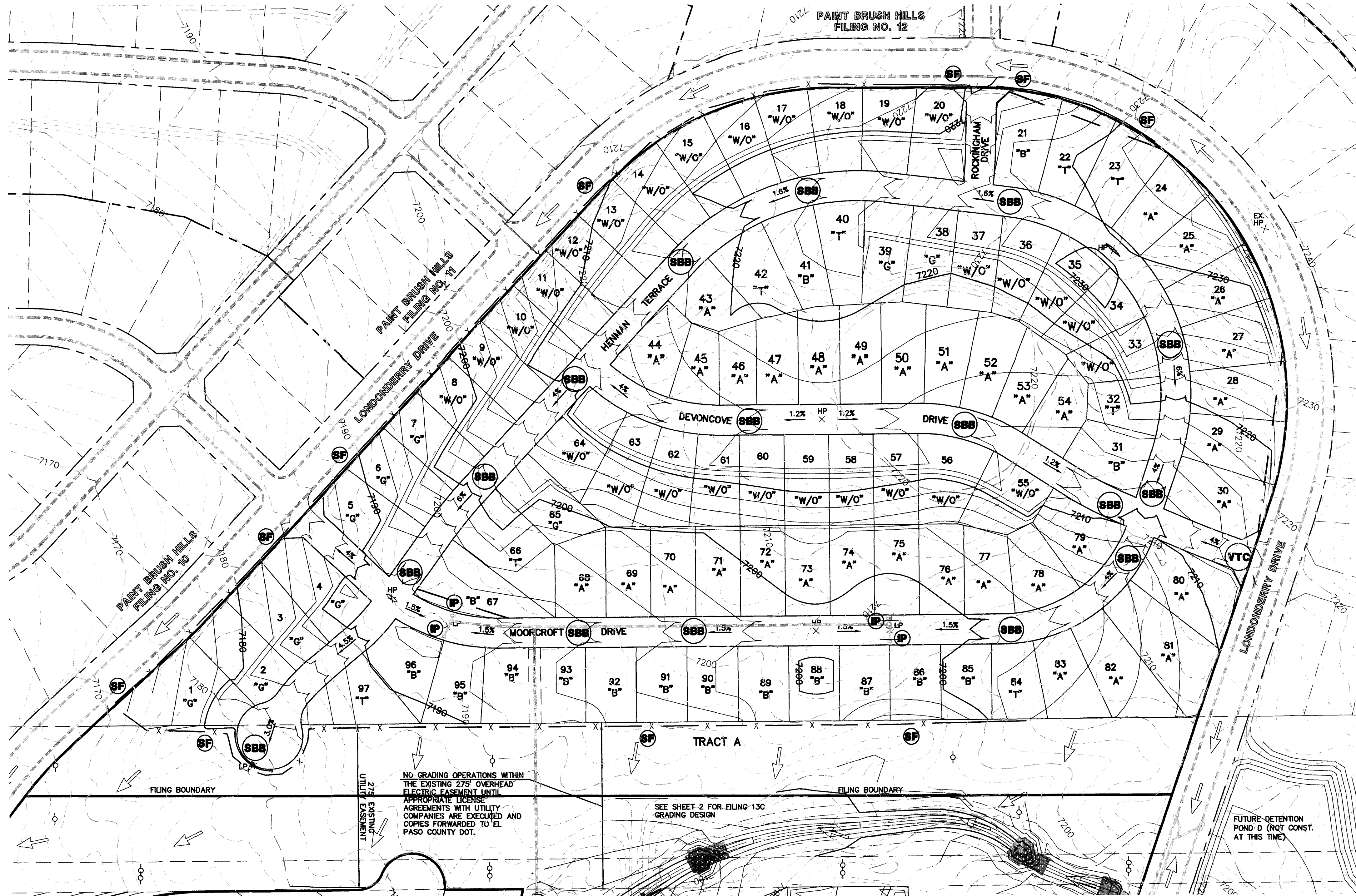
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719)785-0790
(719)785-0799(Fax)

PAINT BRUSH HILLS FIL. 13C & 13D
GRADING & EROSION CONTROL PLAN
FILING 13C

DESIGNED BY	PRA	SCALE	DATE	1-7-17
DRAWN BY	PRA	(H) 1" = 100'	SHEET	2 OF 4
CHECKED BY	(V) 1" = N/A	JOB NO.	2053.40	

N:\205340\DRAWINGS\CONSTRUCTION\205340GR 03.dwg, 12/11/2016 6:05:37 PM, DWG To PDF, pc-3

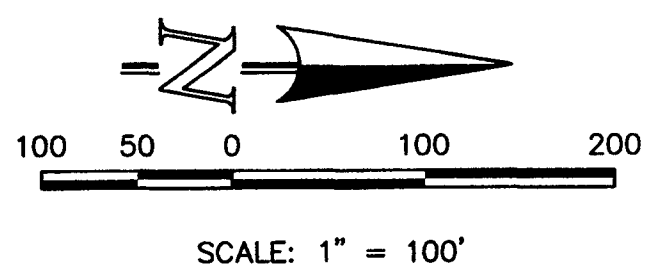
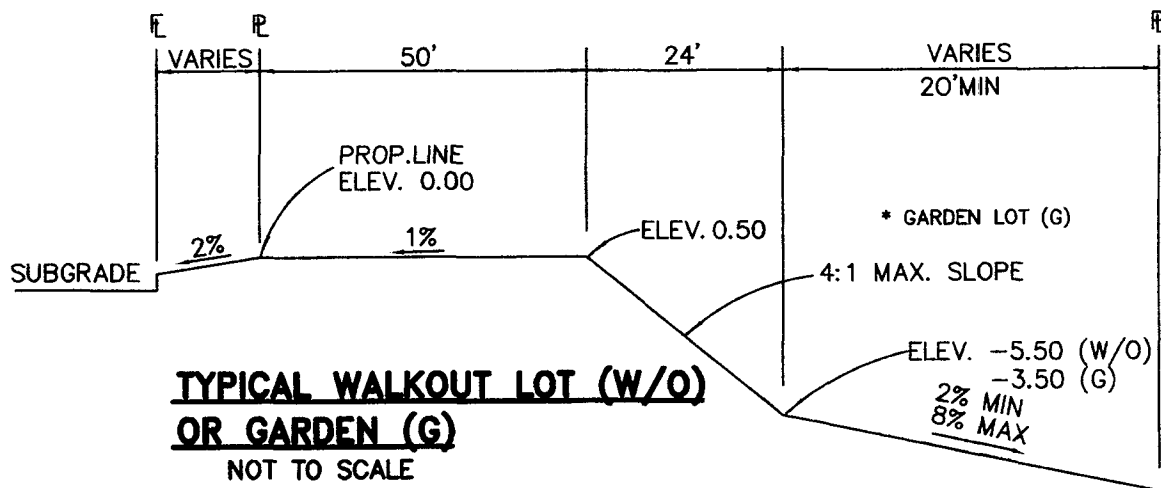
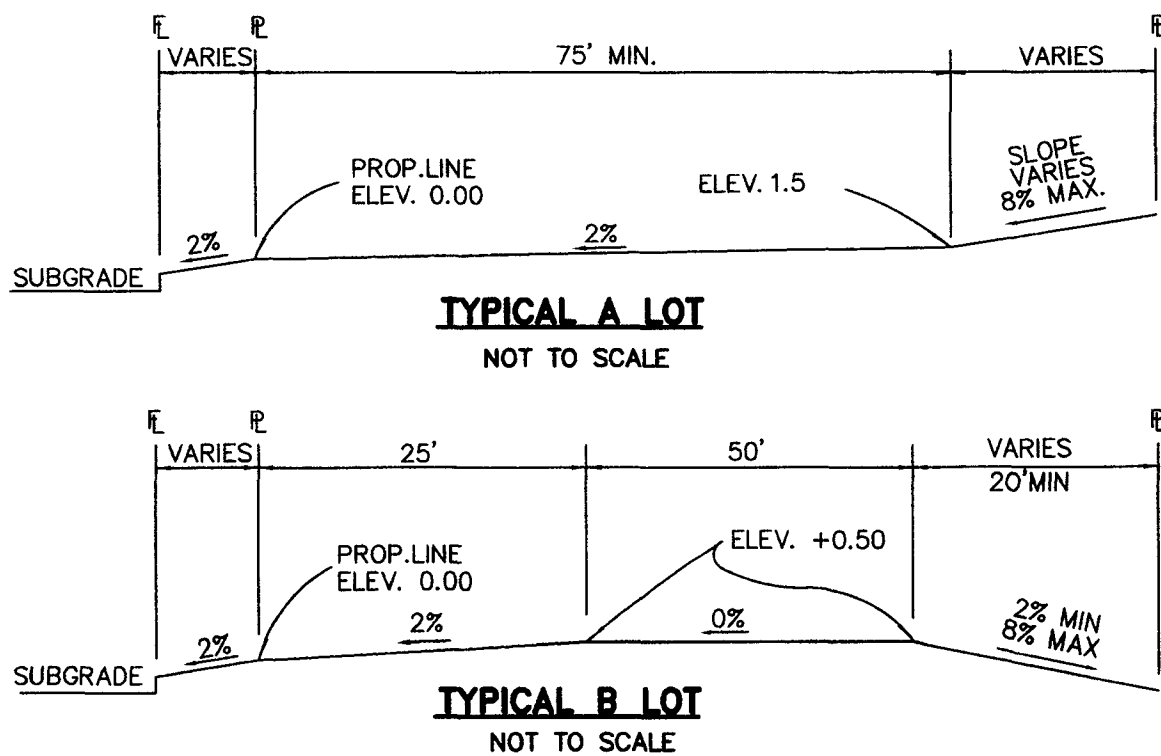


- NOTES:**
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 - SEE SHEET 1 FOR EROSION CONTROL NOTES AND SHEET 4 FOR EROSION CONTROL DETAILS.

LEGEND

	SILT FENCE		EXISTING GROUND CONTOUR	H.P.	HIGH POINT
	STRAW BALE BARRIER		PROPOSED FINISHED CONTOUR	L.P.	LOW POINT
	VEHICLE TRACKING CONTROL		FLOW DIRECTION	"A"	A LOT
	INLET PROTECTION		EXISTING FLOW	"B"	B LOT
			DAYLIGHT LINE	"W/O"	WALKOUT LOT
			SILT FENCE	"T"	TRANSITION LOT
			FILING BOUNDARY	"G"	GARDEN LOT



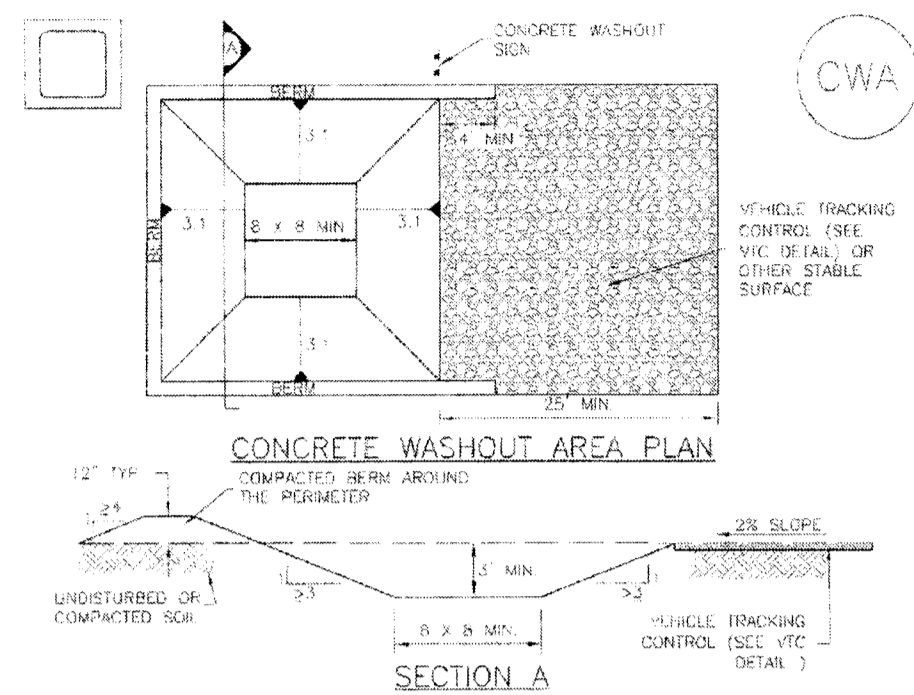
SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

1. INSTALL INITIAL BMP'S	ALL SITE ROADWAY	COMPLETION	EROSION CONTROL
2. INSPECTION OF INITIAL BMP'S BY COUNTY STAFF	GRADING AND UTILITY	6 MONTHS	ALL SHOWN ON
3. PRECONSTRUCTION MEETING WITH COUNTY STAFF	INSTALLATION		GRADING AND EROSION CONTROL PLAN
BEGIN CONSTRUCTION UPON APPROVAL	ACTIVITY		

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION	DATE	REVIEW:
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		DRAWN BY	PRA
		CHECKED BY	(V) 1"= N/A
		SCALE	(H) 1"= 100'
		DATE	11/15/16
		SHEET	3 OF 4
		JOB NO.	2053.40

Concrete Washout Area (CWA)

MM-1



CWA-1. CONCRETE WASHOUT AREA

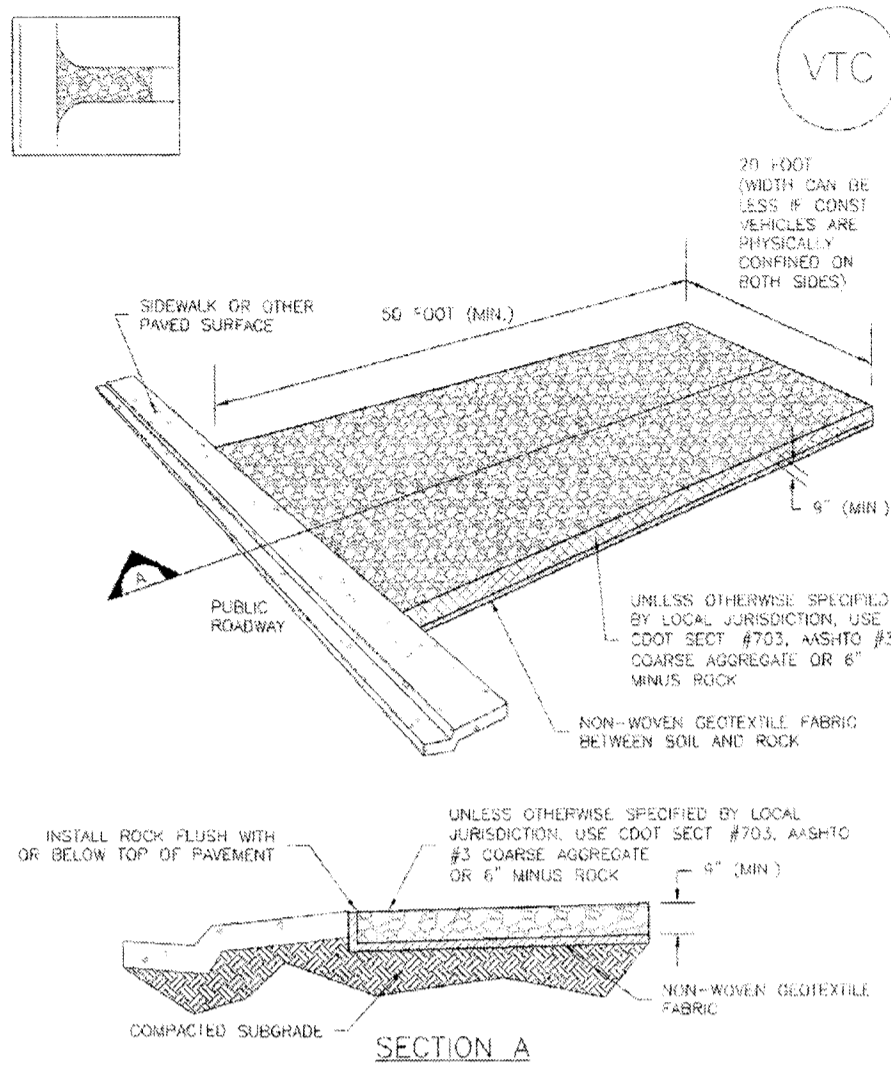
- INSTALLATION NOTES**
- SEE PLAN FOR CWA INSTALLATION LOCATION.
 - DO NOT LOCATE AN UNLINED CWA WITHIN 40' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODIES. DO NOT LOCATE WITHIN 100' OF ANY WELLS OR EXISTING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (15 MIN. THICKNESS) OF SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ARMY GROUND STORAGE ARE SHOULD BE USED.
 - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 2' DEEP.
 - SEED SURROUNDING SODS AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
 - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCES AT THE CWA AND DISSEMINATE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
 - USE EXCAVATED MATERIAL FOR CONCRETE BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

CWA-3

Vehicle Tracking Control (VTC)

SM-4



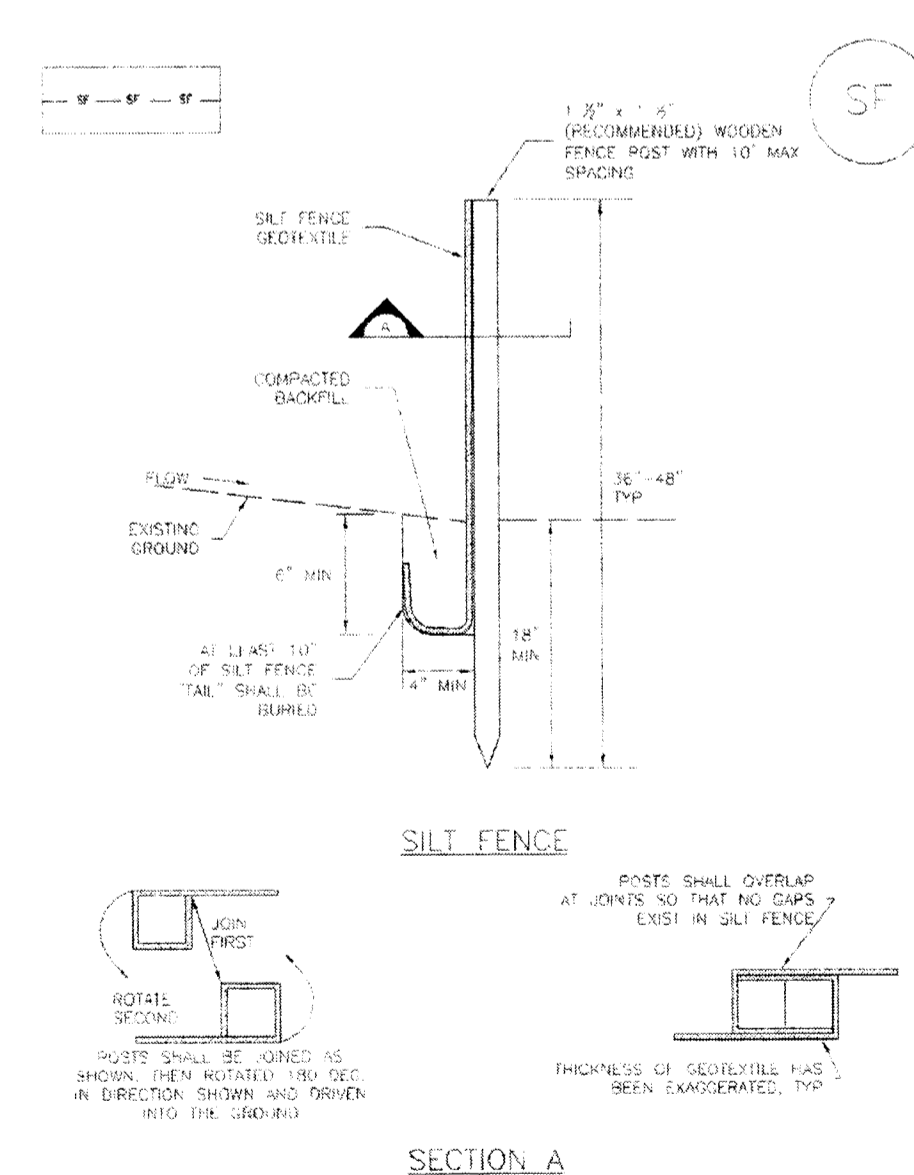
VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

VTC-3

Silt Fence (SF)

SC-1



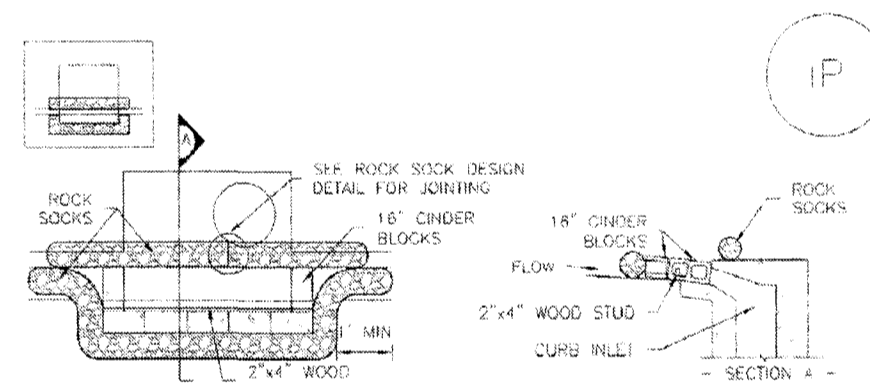
SF-1. SILT FENCE

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SF-3

SC-6

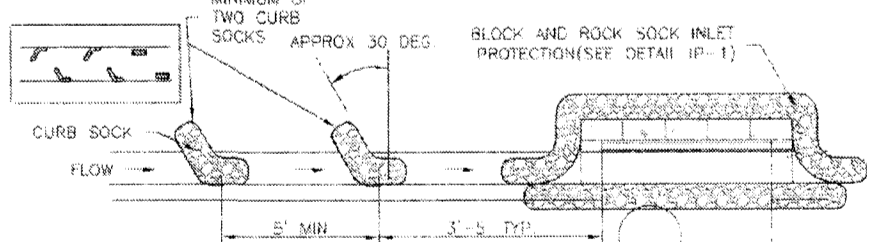
Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- CONCRETE TOWER SOCKS SHALL BE LAYED ON TOP OF CURB SOCKS. THE SOCKS SHALL BE PLACED IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
- GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

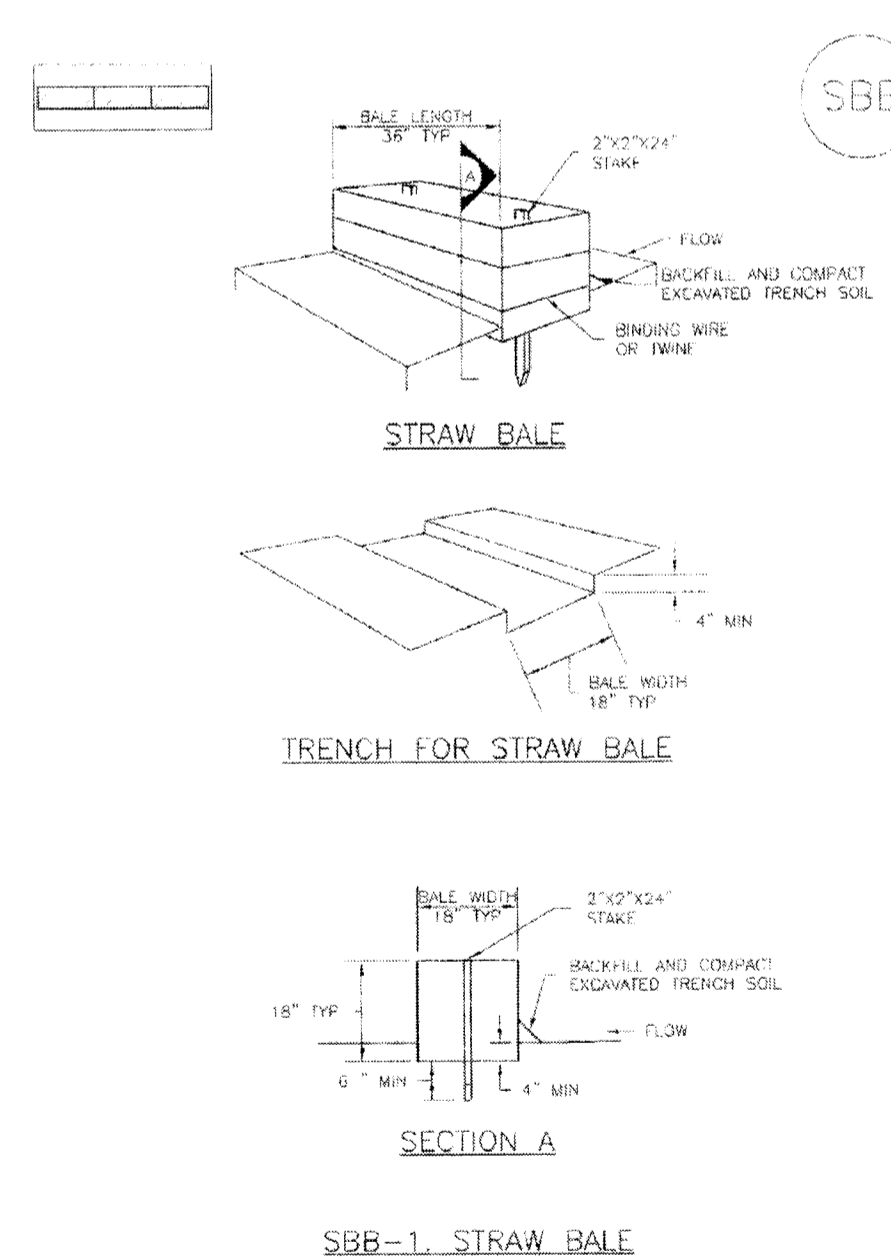
- SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
- SOCKS ARE TO BE FLUSH WITH THE CURB AND SHOULD A MINIMUM OF 5 FEET APART.
- AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-4 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

August 2013

SC-3

Straw Bale Barrier (SBB)



SBB-1. STRAW BALE

SBB-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

November 2010

SEEDING GUIDELINES

1. SEEDBED PREPARATION

THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRAGILE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.

2. FERTILIZER

FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAILABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.

3. SEEDING

SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:1 (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS.

SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD.

THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.

4. MULCHING

SEEDING AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE; PREVENT SURFACE COMPACTION OR CRUSTING; REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.

NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRAMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.

5. SUPPLEMENTAL WATER

IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

EROSION PROTECTION & REVEGETATION REQUIREMENTS
PER U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE GUIDELINES

1. PRACTICE NO. & NAME RANGE SITE B - LOAMY SAND

2. PLANNED: SEED PREP: A METHOD: B DATES: OCT 15 - MAY 31 C CLEAN TILLED: XX FROM SEEDING: XX STUBBLE COVER: INTERSEED: OTHER: SEEDING OPERATION: A METHOD: B DATES: OCT 15 - MAY 31 C CLEAN TILLED: XX FROM SEEDING: XX STUBBLE COVER: INTERSEED: OTHER: B DRILL SPACING: 8-12" TYPE: GRASS W/AGITATOR C DATE: OCT 15 - MAY 31 D PLANTING DEPTH: 1/4-3/4"

FERTILIZER: POUNDS ACTUAL PER ACRE: 40 N2 (AVAILABLE): 40 P205: 40 K: N/A WEED CONTROL: N/A MOWING: N/A CHEMICAL: XX DATES: SEE S.C.S. FOR SPECIFIC RECOMMENDATIONS AT HERBICIDE APPLICATION TIME

MULCH: LONG - STEM NATIVE HAY KIND: AMOUNT: 4,000 POUNDS/ACRE HOW-APPLIED: N/A HOW-ANCHORED: CRIMPED ANCHORAGE DEPTH: 4"

SEED:	VARIETY	SPECIES	REQUIRED PLS RATES PER ACRES (1000S)
	KAW	BIG BLUE STEM	5.5
	HOLT	YELLOW INDIAN GRASS	5.0
	GOSHEN	PRAIRIE SANDREED	3.5
	VAUGHN	SIDEOTS GRAMMA	4.5
	NEBRASKA 28	SWITCH GRASS	2.5
	ARRIBA	PRAIRIE SANDREED	8.0

(2) % OF SPECIES IN MIXTURE	(3) PLS SEEDING RATE PER SPECIES/ACRE (1) x (2)	(4) PLANNED ACRE	(5) TOTAL PLS LBS/ SPECIES PLANNED (3) x (4)
25	1.4	75	105.0
25	1.3	75	97.5
15	0.5	75	37.5
5	0.2	75	15.0
25	0.8	75	45.0
5	0.4	75	30.0

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NO. REVISION

DATE

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MARC A. WHORTON, COLORADO P.E. #37155

DATE

CLASSIC
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ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

PAINT BRUSH HILLS FIL. 13C & 13D
GRADING & EROSION CONTROL PLAN
EROSION CONTROL DETAILS

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