

HAYMEADOW FILING 2 - PHASES 2 & 4

SITUATED IN TRACTS 37, 38, 44, 55, 59, 61, 62, AND 63, TOWNSHIP 5
SOUTH, RANGE 84 WEST OF THE SIXTH P.M.,
TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO

GRADING, EROSION & SEDIMENT CONTROL PLANS

LEGAL DESCRIPTION:

A REPLAT OF TRACT Z1 OF HAYMEADOW CABIN PARCEL AND TRACTS RMF-4 AND X OF HAYMEADOW FILING 1
HAYMEADOW FILING NO. 2
REC. NO.: _____
TOWN OF EAGLE, EAGLE COUNTY, STATE OF COLORADO.

BASIS OF BEARINGS:

BEARINGS ARE BASED ON AN ASSUMED BEARING OF N89°57'47"E THE LINE BETWEEN CORNER 2 OF TRACT 38 A 2 1/2" USGLO BRASS CAP ON A 1" DIAMETER IRON PIPE AND CORNER 1 OF SAID TRACT 38 A 2 1/2" ALUMINUM CAP ON A 3/4" REBAR SITUATED ALONG THE NORTH LINE OF THE SUBJECT PARCEL.

BENCHMARK:

ELEVATION INFORMATION SHOWN HEREON IS BASED UPON GPS OBSERVATIONS UTILIZING OPUS, GEOD 12B TO DERIVE THE NOVD29 ELEVATION OF 6734.7' AT THE TOP OF A 2-1/2" ALUMINUM CAP ON #6 REBAR STAMPED CORNER 1 TRACT 58 MEYER LAND SYSTEMS, 2000, AS SHOWN HEREON.

TOWN OF EAGLE STANDARD DETAIL DRAWING INDEX:

STANDARD DETAILS INCORPORATED BY REFERENCE WITHIN THESE DRAWINGS SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING TOWN OF EAGLE STANDARD DETAILS INDICATED AND ALL SUBSEQUENT DETAILS WHICH MAY BE REFERENCED THEREIN:

TYPICAL SEWER DETAILS

A1: PAVED SURFACE TRENCH BACKFILL
A2: TRENCH BACKFILL
A3: TRENCH BACKFILL

A4: SEWER SERVICE FROM MAIN

A5: STANDARD MANHOLE

A11: CHANNELS

A12: STANDARD CHANNELS SECTION

TYPICAL WATER DETAILS

B1: WATER MAIN SEWER CROSSING/PARALLEL

B2: FIRE HYDRANT DETAIL

B3: AIR RELEASE VALVE

B6: WATER SERVICE TAP

B14: VALVE BOX

B17: CUT IN TEE

B18: TAPPING SLEEVE

B20: TEE DETAIL

B21: GENERAL THRUST BLOCKS

B22: VERTICAL THRUST BLOCKS

TYPICAL ROAD DETAILS

C1: 6" VERTICAL CURB AND GUTTER

C2: MOUNTABLE CURB AND GUTTER

C4: ADA RAMPS

C5: ADA CORNER RAMP

C7: STREET INTERSECTION CURB FILLETS

C12: CROSSWALL DETAIL

C14: STREET CUT DETAIL

TYPICAL STORM SEWER DETAILS

D1: CURB INLET

D2: CURB INLET 2

D3: CULVERT BEDDING

D4: SILT FENCE

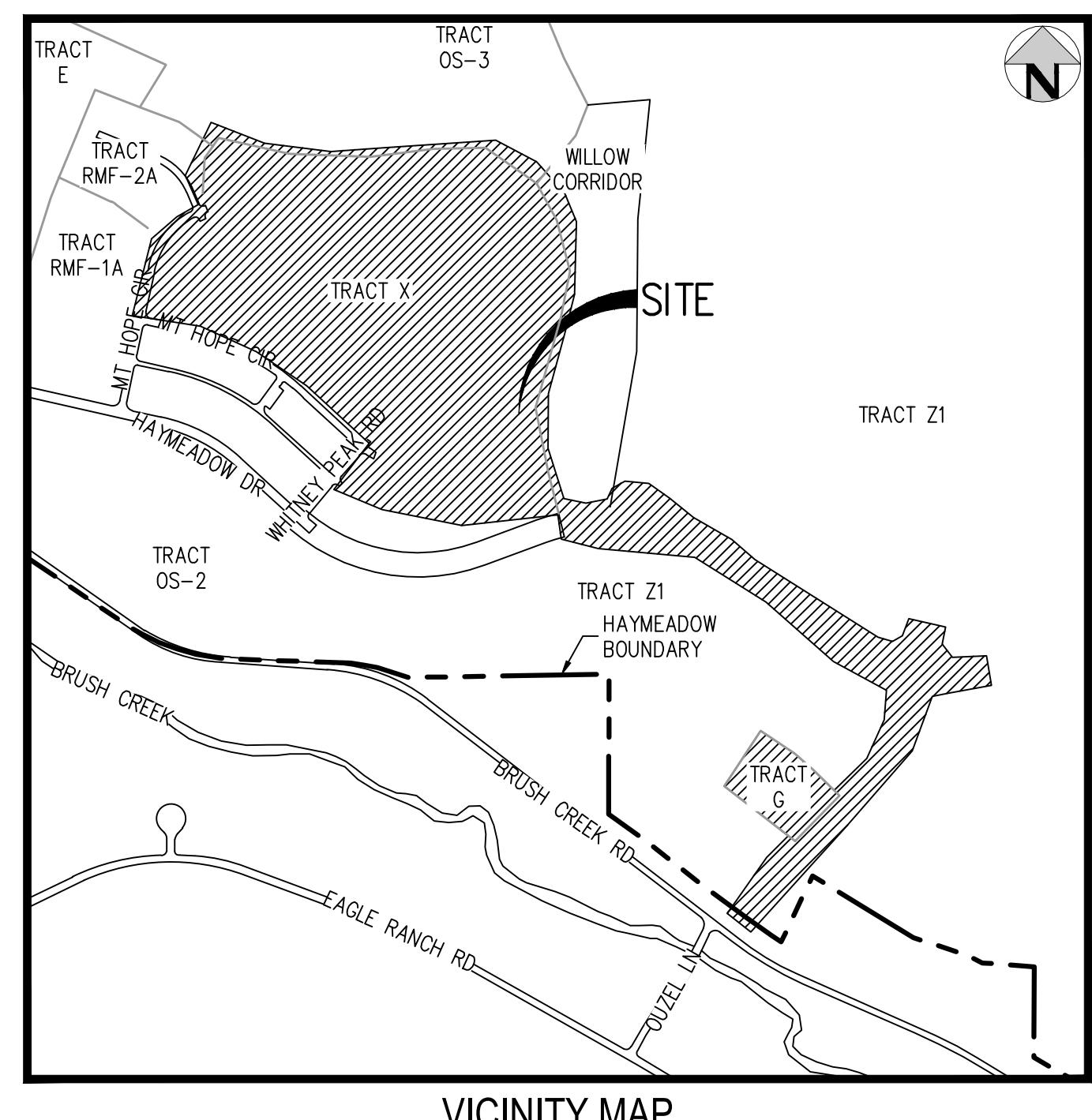
D5: EROSION LOG

BUILDING TYPICAL DETAILS

E8: ALLEY SEWER SERVICE

E10: DRIVEWAY CULVERT

E11: CONSTRUCTION TRACKING PAD



SHEET INDEX

- 1 COVER SHEET
- 2 GRADING, EROSION & SEDIMENT CONTROL PLAN - INITIAL
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- 9 GRADING, EROSION & SEDIMENT CONTROL DETAILS
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LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY	-----	-----
RIGHT-OF-WAY	-----	-----
UTILITY EASEMENT	-----	-----
SANITARY SEWER W/ MANHOLE	SS	SS
SANITARY SERVICE W/ CLEANOUT	SS	SS
WATER LINE AND GATE VALVE	W	W
WATER SERVICE	-----	-----
NON-POTABLE WATER LINE	-----	-----
STORM SEWER W/ MANHOLE & INLETS	ST	ST
GAS	G	G
UNDERGROUND ELECTRIC	UE	UE
TELECOM	T	T
ASPHALT TRAIL	-----	-----
FIRE HYDRANT	-----	-----
STREET LIGHT	-----	-----
SIGN	-----	-----

PRELIMINARY
NOT FOR
CONSTRUCTION

LANDSCAPE ARCHITECT

NORRIS DESIGN

P: 970.368.7068
POC: MEGAN TESTIN
MTESTIN@NORRIS-DESIGN.COM

DEVELOPER/PROJECT OWNER

ABRIKA PROPERTIES

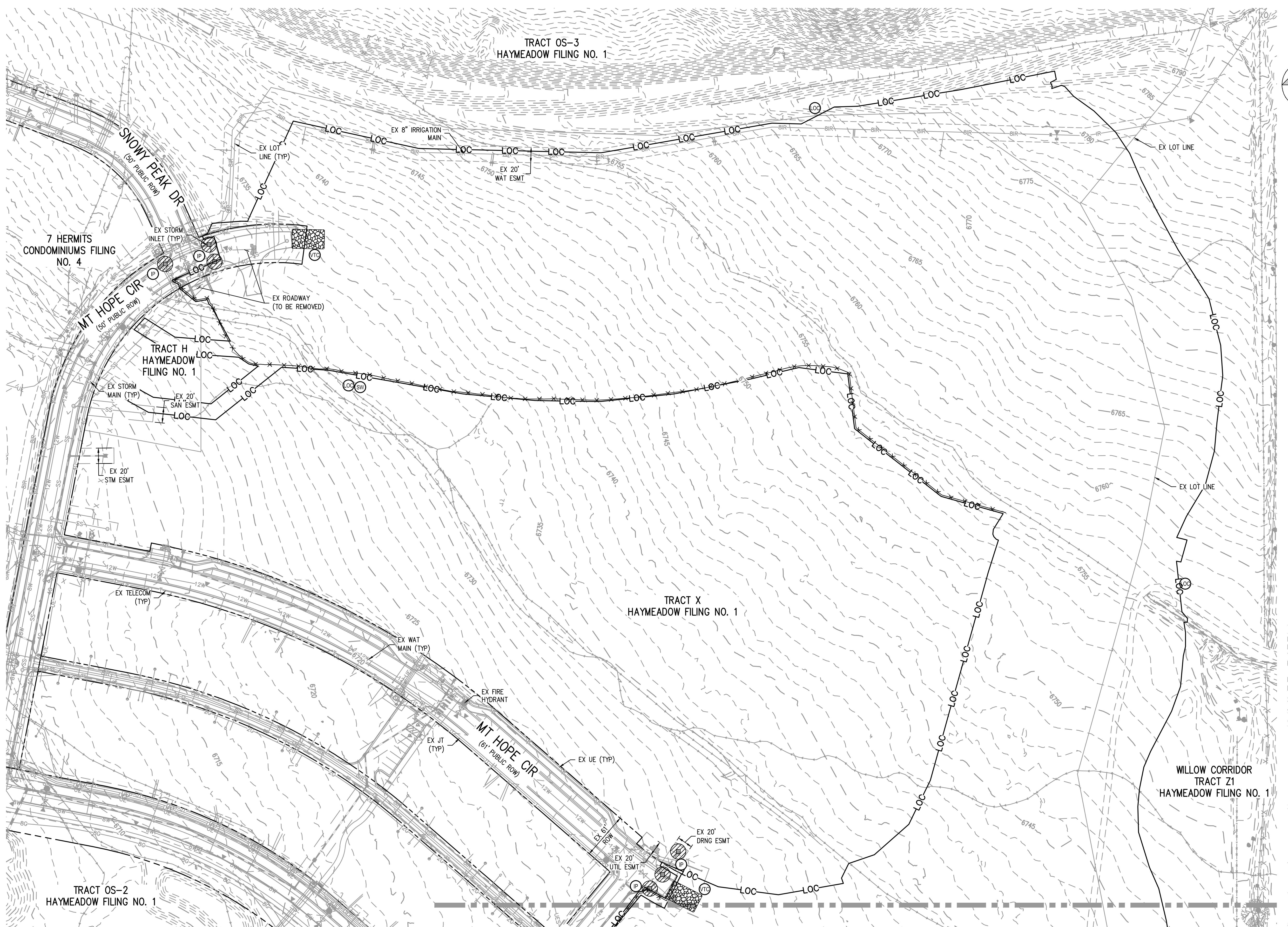
P: 970.331.4492
POC: MICHAEL HOOD
MICHAEL@ORANGECONSULTINGLLC.COM

CIVIL ENGINEER

HKS **HARRIS
KOCHE
SMITH**
1120 Lincoln Street, Suite 1000
Denver, Colorado 80203
P: 303.623.6300 F: 303.623.6311
HarriskocherSmith.com

ISSUE DATE: 11-19-2024	PROJECT #: 240804
DATE	REVISION COMMENTS
12-04-2024	BID SET
01-09-2025	BID SET
02-14-2025	PER TOWN OF EAGLE COMMENTS





TOWN OF EAGLE EROSION CONTROL NOTES:
IF A SEPARATE CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMIT (CASDP) IS REQUIRED FOR THIS PROJECT, THE PERMITTEE MUST IMPLEMENT AND COMPLY WITH THE APPROVED CASDP (EC PERMIT) AND ASSOCIATED DOCUMENTS FOR THIS PROJECT.

IF A SEPARATE CASDP (EC PERMIT) IS NOT REQUIRED, THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL POTENTIAL POLLUTANTS GENERATED DURING DEMOLITION OR CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT, BE PREVENTED FROM DISCHARGE TO STORMWATER CONVEYANCE SYSTEMS IN THE VICINITY OF THIS PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM RECEIVING WATERS, WATERWAYS, WETLANDS, AND OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
2. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR, ACCUMULATE IN THE FLOW LINES, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAY OF THE CITY AND COUNTY OF DENVER AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.
3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY.
4. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATING CONDITION FOR THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE, AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.
5. SILT FENCE (SF) MAY BE REPLACED BY SEDIMENT CONTROL LOGS (SCL) AT THE CONTRACTORS DISCRETION.
6. INDIVIDUAL BMP'S MAY BE REQUIRED AT A PLOT PLAN LEVEL.
7. TRENCHES THAT MUST BE LEFT OPEN DURING NON-WORKING HOURS SHALL BE COVERED WITH SUITABLE MATERIALS AND/OR BARRICADED.



60	0	60	120
SCALE: 1" = 60'			

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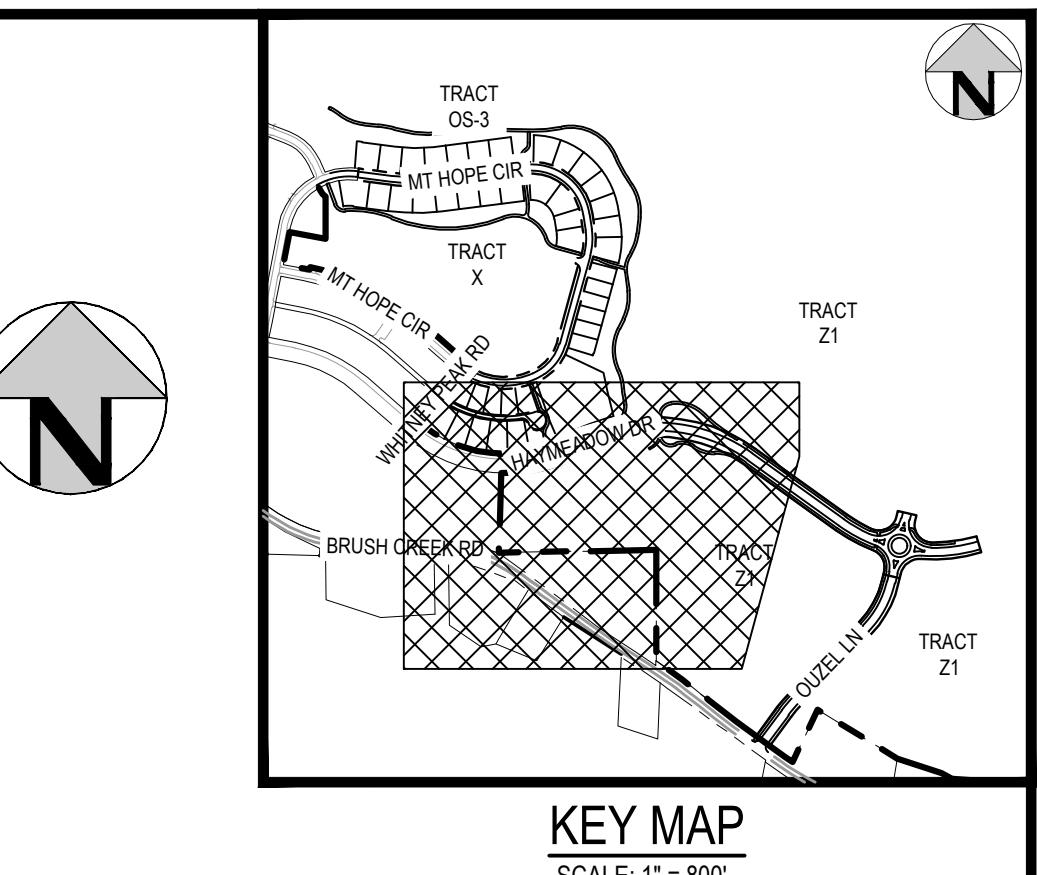
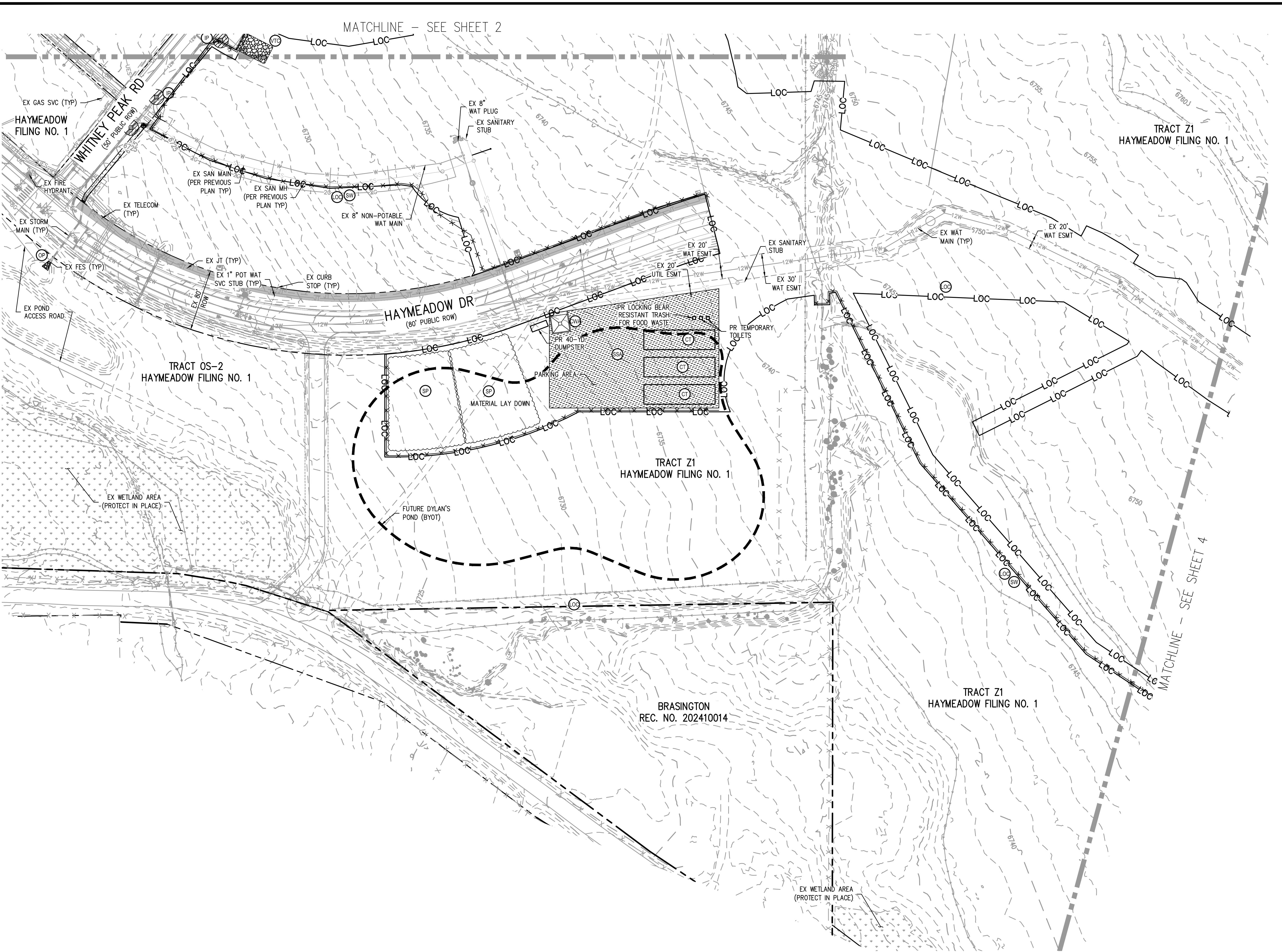


ABRIKA PROPERTIES

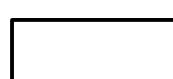
HAYMEADOW FILING 2 - PHASES 2 & 4
GRADING, EROSION & SEDIMENT CONTROL PLAN - INITIAL

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT #: 240804
SHEET NUMBER
2
2 OF 10



LEGEND:

RIGHT OF WAY	-----	
EXISTING CONTOURS		5173 5170
SETS OF CONSTRUCTION / SETS OF DISTURBANCE	LOC	LOC
RAW WADDLE	SW	xxx
ABILIZED STAGING AREA	SSA	
EHICLE TRACKING CONTROL	VTC	
CONCRETE WASHOUT AREA	CWA	
IL STOCKPILE	SP	
STRUCTION TRAILER	CT	
LET PROTECTION	IP	
TLET PROTECTION	OP	

DOWN OF EAGLE EROSION CONTROL NOTES:

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THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, RECEIVING WATERS, WATERWAYS, WETLANDS, AND OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO OR, ACCUMULATE IN THE FLOW LINES STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAYS OF THE CITY AND COUNTY OF DENVER AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.

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EROSION AND SEDIMENT CONTROL 'BEST MANAGEMENT PRACTICES' SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATING CONDITION FOR THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.

SILT FENCE (SF) MAY BE REPLACED BY SEDIMENT CONTROL LOGS (SCL) AT THE CONTRACTORS DISCRETION.

INDIVIDUAL BMP'S MAY BE REQUIRED AT A PLOT PLAN LEVEL.

TRENCHES THAT MUST BE LEFT OPEN DURING NON-WORKING HOURS SHALL BE COVERED WITH SUITABLE MATERIALS AND/OR BARRICADED.



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

A scale bar and text block. The scale bar is a horizontal line with tick marks. It has '60' at both ends and '0' in the center. Below the scale bar is the text 'SCALE: 1" = 60'.

120	ISSUE DATE: 11-19-2024		
	DATE	REVISION	COMM
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	01-09-2025	BID SET	
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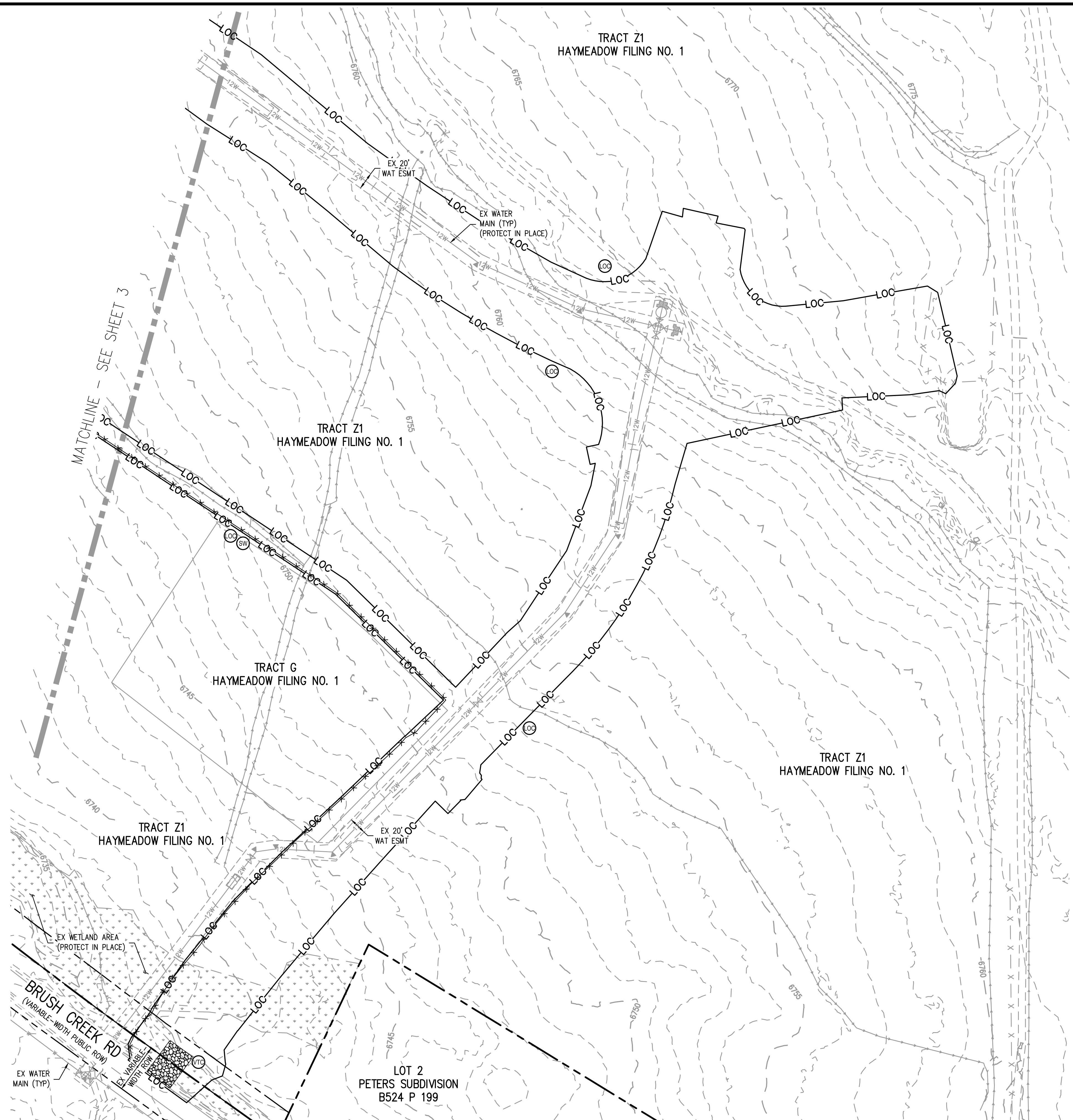
ABRIKA PROPERTIES

HAYMEADOW FILING 2 - PHASES 2 & 4

GRADING, EROSION & SEDIMENT CONTROL PLAN - INITIAL

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT #: 240804
SHEET NUMBER
3
3 OF 10



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ABRIKA PROPERTIES

HAYMEADOW FILING 2 - PHASES 2 & 4

GRADING, EROSION & SEDIMENT CONTROL PLAN - INITIAL

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT #: 240804
SHEET NUMBER
4
4 OF 10

LEGEND:

RIGHT OF WAY	
EXISTING CONTOURS	
UNITS OF CONSTRUCTION / UNITS OF DISTURBANCE	
RAW WADDLE	
STABILIZED STAGING AREA	
VEHICLE TRACKING CONTROL	
CONCRETE WASHOUT AREA	
SIL STOCKPILE	
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LET PROTECTION	
TEL PROTECTION	
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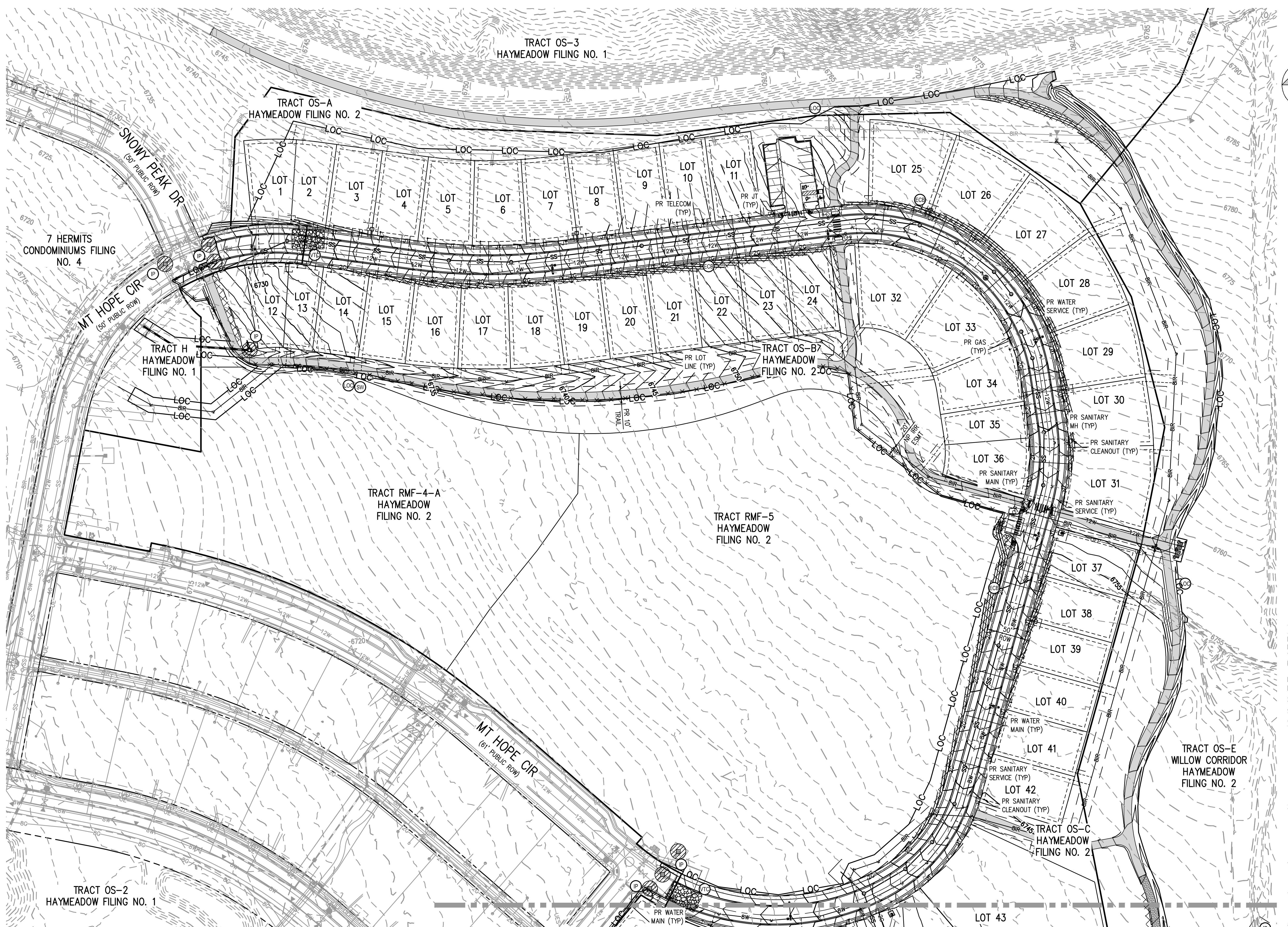
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4 OF 10

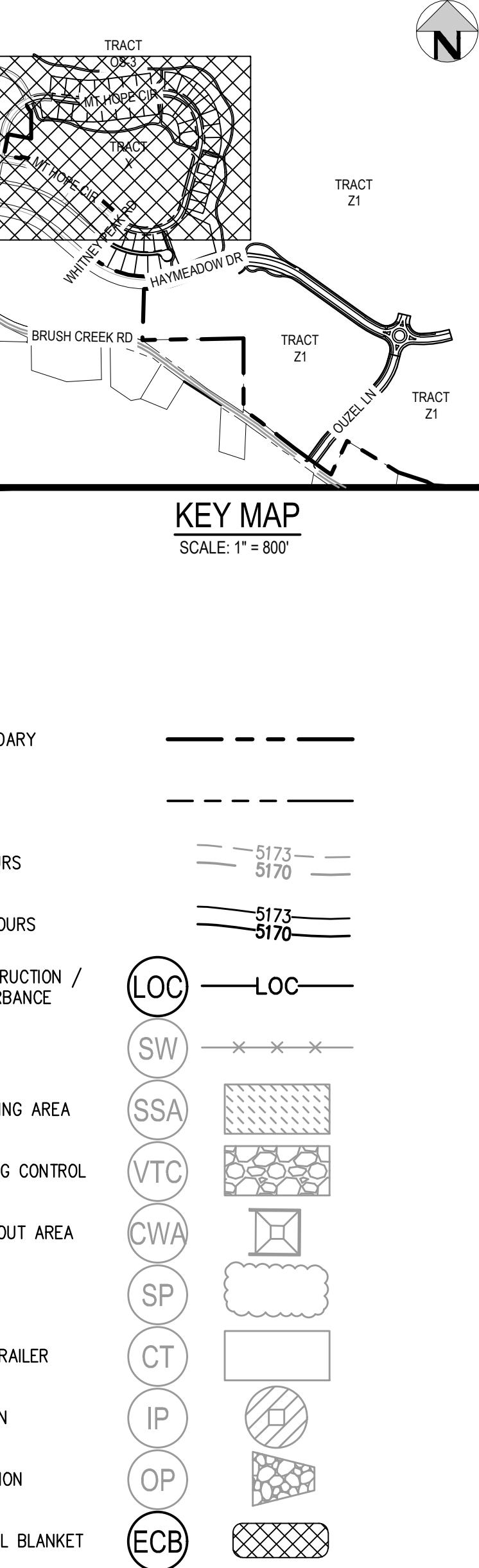


811
Know what's below.
Call before you dig.

ISSUE DATE: 11-19-2024
DATE: 12-04-2024 BID SET
REVISION COMMENTS: 01-09-2024 BID SET
02-14-2025 PERTOWN OF EAGLE COMMENTS
DESIGNED BY: MJS
CHECKED BY: RCP
DRAWN BY: MJS
PROJECT #: 240804
SHEET NUMBER: 5
5 OF 10



ABRIKA PROPERTIES

HAYMEADOW FILING 2 - PHASES 2 & 4
GRADING, EROSION & SEDIMENT CONTROL PLAN - FINAL

LEGEND:

PROPERTY BOUNDARY	
RIGHT OF WAY	
EXISTING CONTOURS	
PROPOSED CONTOURS	
LIMITS OF CONSTRUCTION / LIMITS OF DISTURBANCE	
STRAW WADDLE	
STABILIZED STAGING AREA	
VEHICLE TRACKING CONTROL	
CONCRETE WASHOUT AREA	
SOIL STOCKPILE	
CONSTRUCTION TRAILER	
INLET PROTECTION	
OUTLET PROTECTION	
EROSION CONTROL BLANKET	

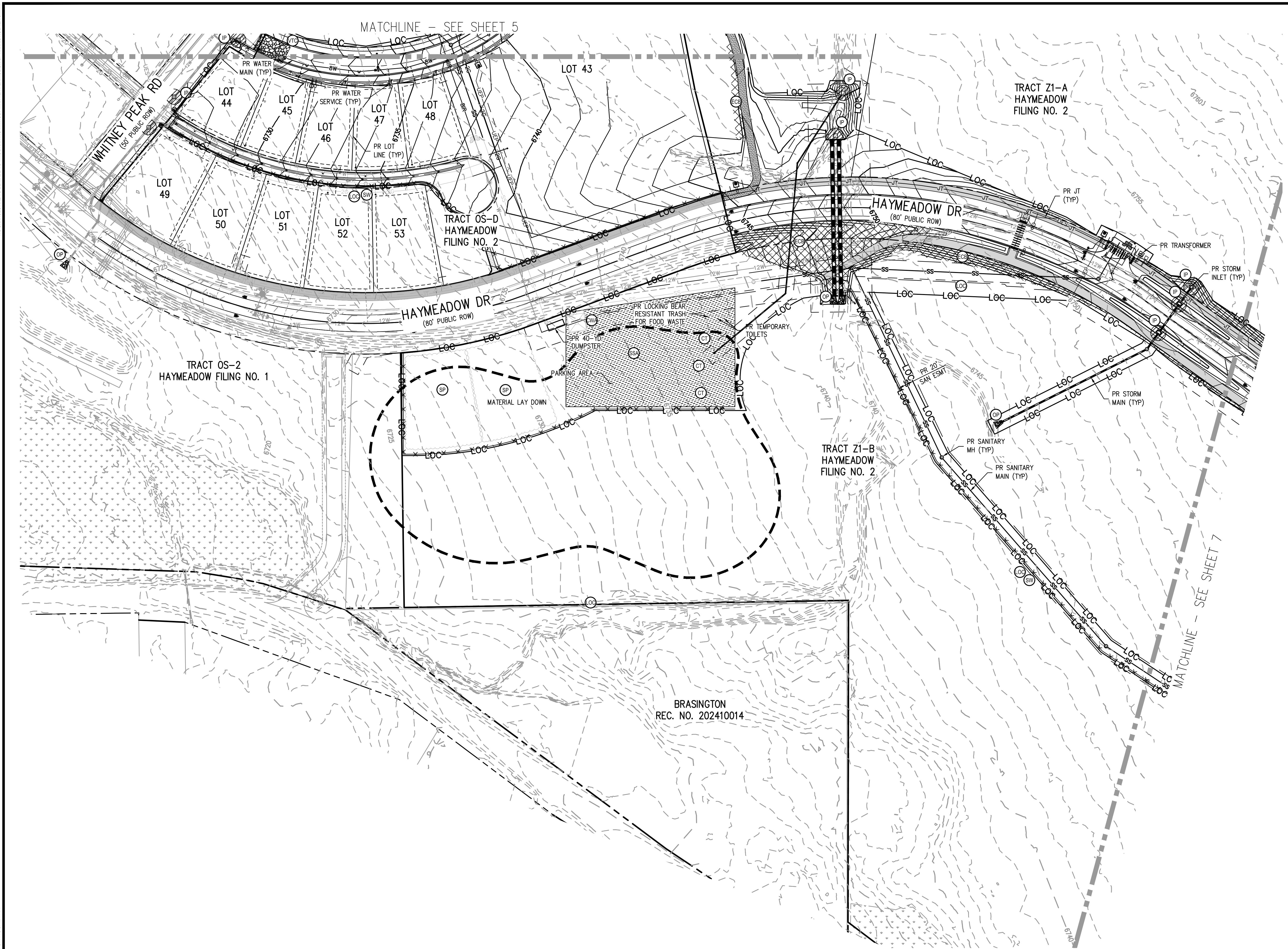
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MATCHLINE - SEE SHEET 6



LEGEND:

PROPERTY BOUNDARY	
RIGHT OF WAY	
EXISTING CONTOURS	
PROPOSED CONTOURS	
LIMITS OF CONSTRUCTION / LIMITS OF DISTURBANCE	
STRAW WADDLE	
STABILIZED STAGING AREA	
VEHICLE TRACKING CONTROL	
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EROSION CONTROL BLANKET	

TOWN OF EAGLE EROSION CONTROL NOTES:

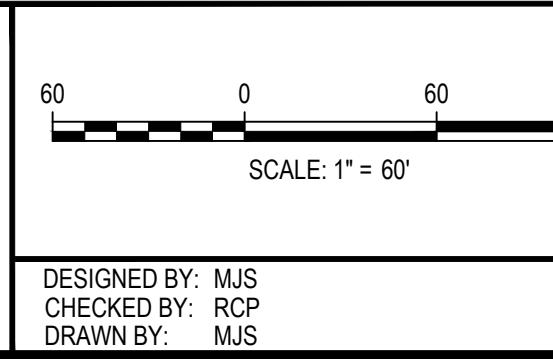
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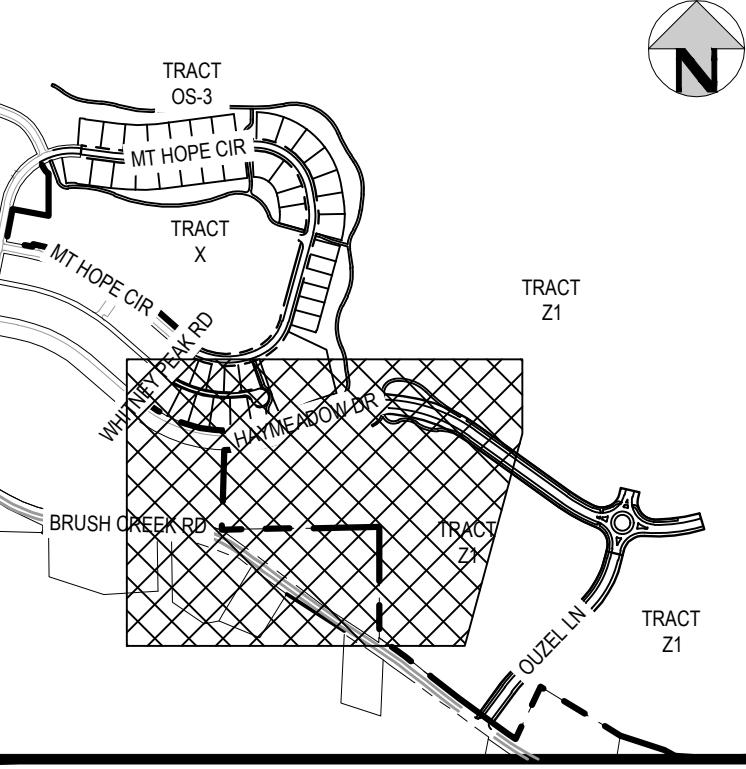


ABRIKA PROPERTIES

HAYMEADOW FILING 2 - PHASES 2 & 4
GRADING, EROSION & SEDIMENT CONTROL PLAN - FINAL

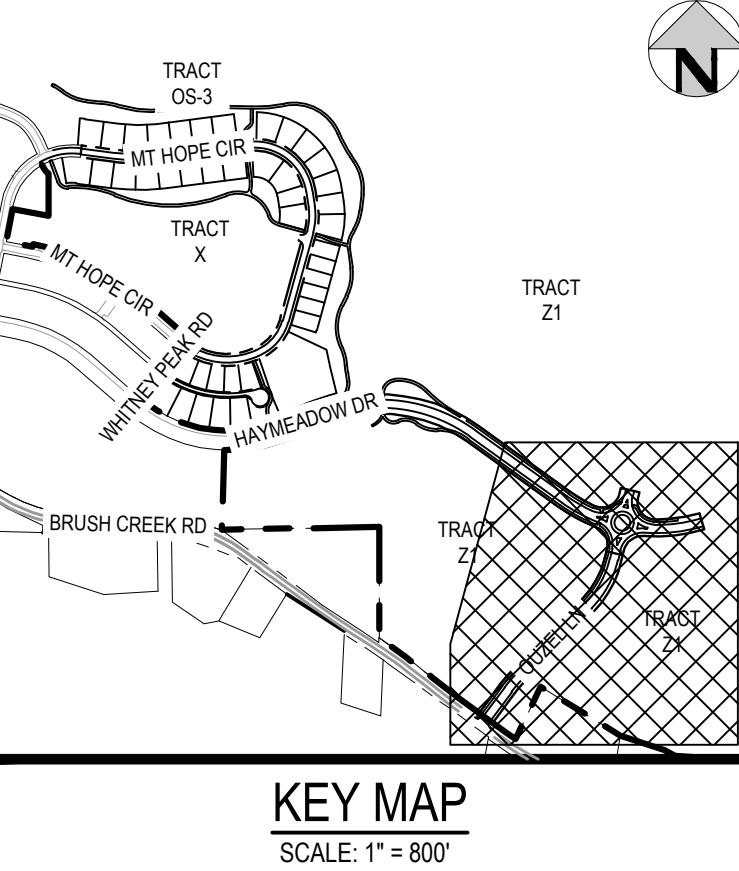
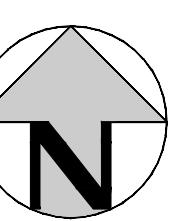
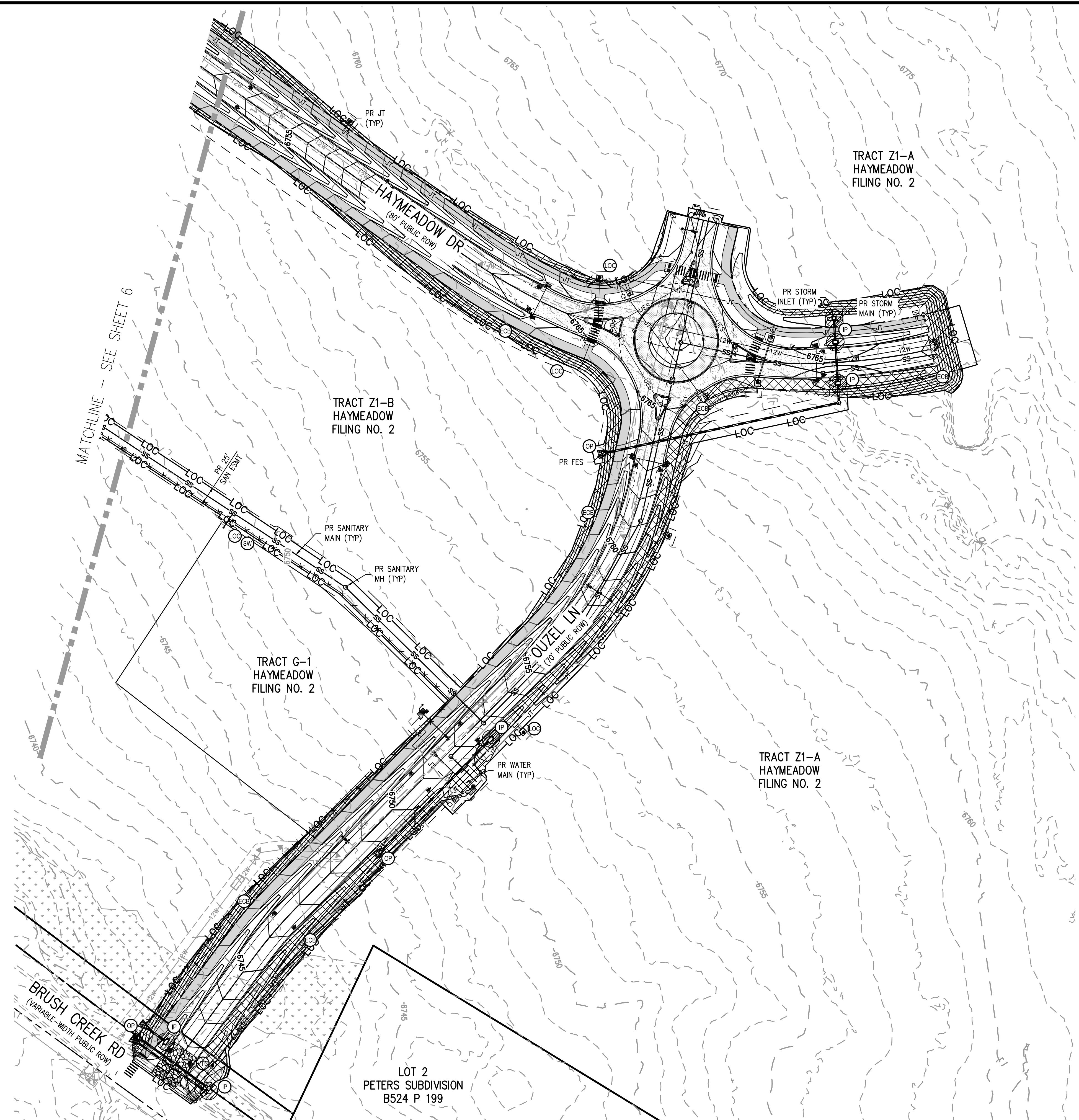
PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT #: 240804
SHEET NUMBER
6
6 OF 10



KEY MAP

SCALE: 1" = 800'



LEGEND:

PROPERTY BOUNDARY	
RIGHT OF WAY	
EXISTING CONTOURS	
PROPOSED CONTOURS	
LIMITS OF CONSTRUCTION / LIMITS OF DISTURBANCE	
STRAW WADDLE	
STABILIZED STAGING AREA	
VEHICLE TRACKING CONTROL	
CONCRETE WASHOUT AREA	
SOIL STOCKPILE	
CONSTRUCTION TRAILER	
INLET PROTECTION	
OUTLET PROTECTION	
EROSION CONTROL BLANKET	

TOWN OF EAGLE EROSION CONTROL NOTES:

IF A SEPARATE CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMIT (CASDP) IS REQUIRED FOR THIS PROJECT, THE PERMITTEE MUST IMPLEMENT AND COMPLY WITH THE APPROVED CASDP (EC PERMIT) AND ASSOCIATED DOCUMENTS FOR THIS PROJECT.

IF A SEPARATE CASDP (EC PERMIT) IS NOT REQUIRED, THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL POTENTIAL POLLUTANTS GENERATED DURING DEMOLITION OR CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT, BE PREVENTED FROM DISCHARGE TO STORMWATER CONVEYANCE SYSTEMS IN THE VICINITY OF THIS PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM RECEIVING WATERS, WATERWAYS, WETLANDS, AND OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
2. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR, ACCUMULATE IN THE FLOW LINES, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAY OF THE CITY AND COUNTY OF DENVER AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.
3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY.
4. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATING CONDITION FOR THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.
5. SILT FENCE (SF) MAY BE REPLACED BY SEDIMENT CONTROL LOGS (SCL) AT THE CONTRACTORS DISCRETION.
6. INDIVIDUAL BMP'S MAY BE REQUIRED AT A PLOT PLAN LEVEL.
7. TRENCHES THAT MUST BE LEFT OPEN DURING NON-WORKING HOURS SHALL BE COVERED WITH SUITABLE MATERIALS AND/OR BARRICADED.



Know what's below.
Call before you dig.

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ISSUE DATE: 11-19-2024		REVISION COMMENTS	
12-04-2024	BID SET		
01-09-2025	BID SET		
02-14-2025	PERTOWN OF EAGLE COMMENTS		

SCALE: 1'' = 60'



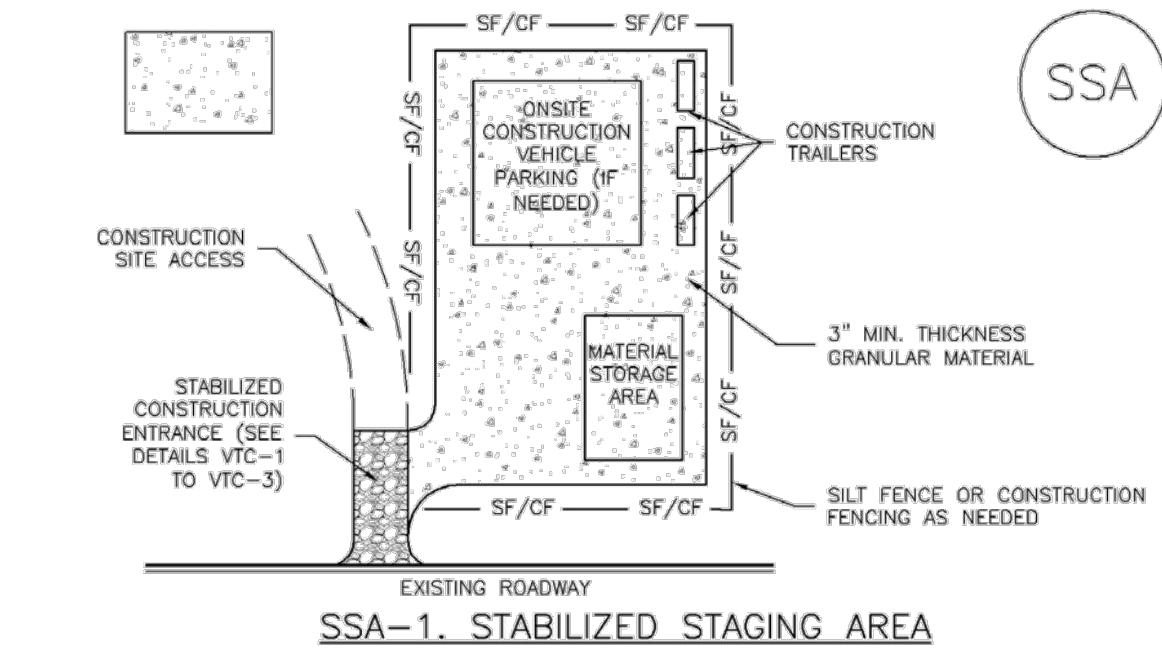
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ABRIKA PROPERTIES

HAYMEADOW FILING 2 - PHASES 2 & 4
GRADING, EROSION & SEDIMENT CONTROL PLAN - FINAL

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT #: 240804
SHEET NUMBER
7
7 OF 10

Stabilized Staging Area (SSA)**SM-6****SSA-1. STABILIZED STAGING AREA****STABILIZED STAGING AREA INSTALLATION NOTES**

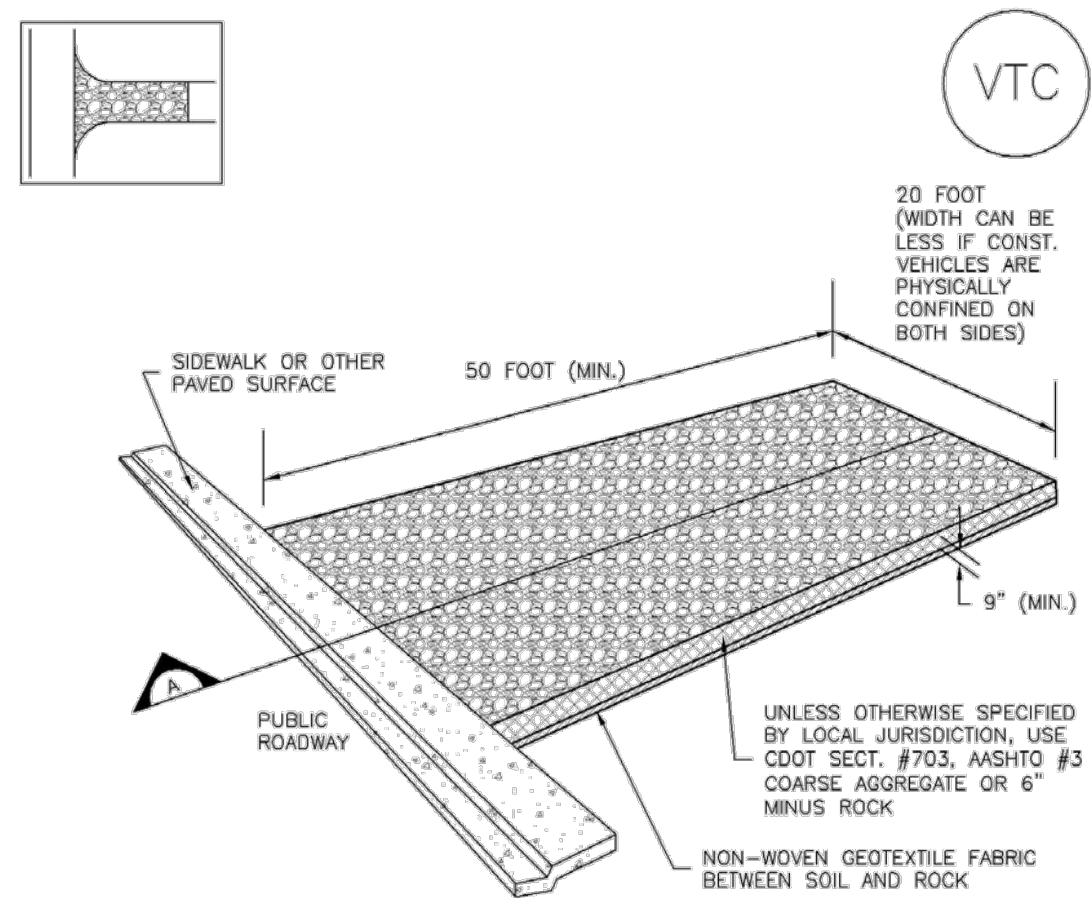
- SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

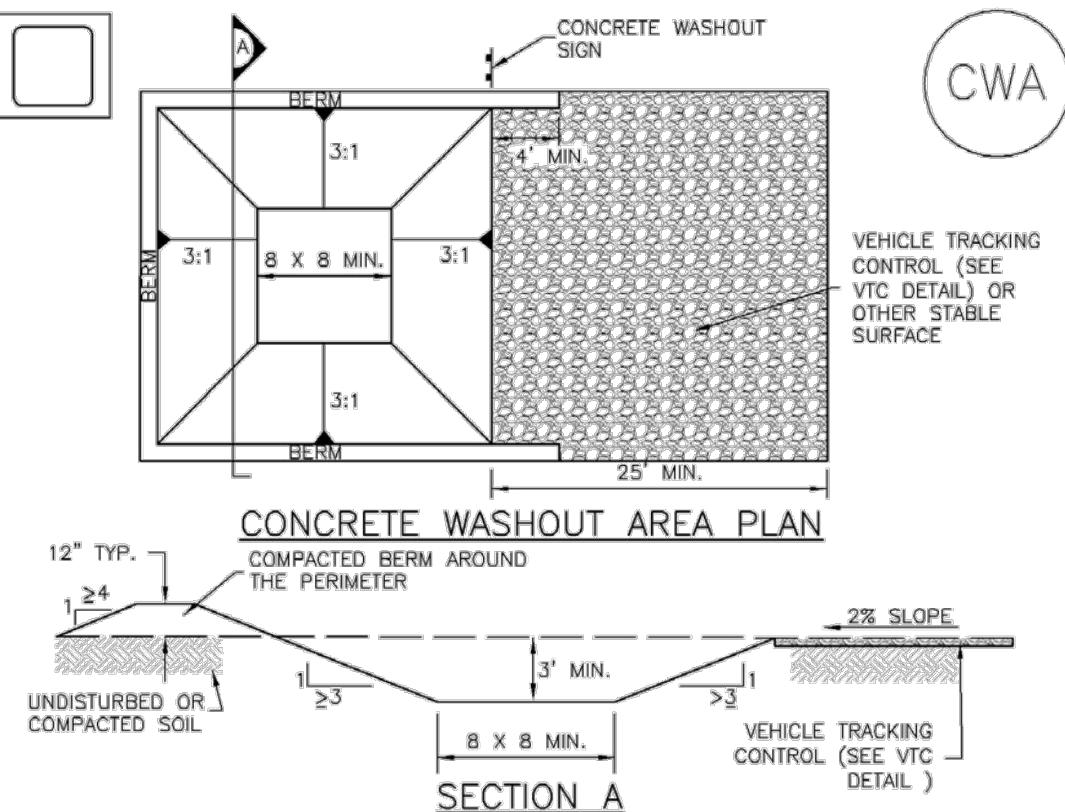
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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Urban Storm Drainage Criteria Manual Volume 3

SSA-3

Vehicle Tracking Control (VTC)**SM-4****VTC-1. AGGREGATE VEHICLE TRACKING CONTROL****AGGREGATE VEHICLE TRACKING CONTROL****SECTION A**November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

VTC-3

Concrete Washout Area (CWA)**MM-1****CWA-1. CONCRETE WASHOUT AREA**

- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING 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 (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINER ABOVE GROUND STORAGE AREAS 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 3' DEEP.
- BERM SURROUNDING SIDES 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 ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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CWA-3

SM-6**Stabilized Staging Area (SSA)****STABILIZED STAGING AREA MAINTENANCE NOTES**

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTY WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: LOCAL JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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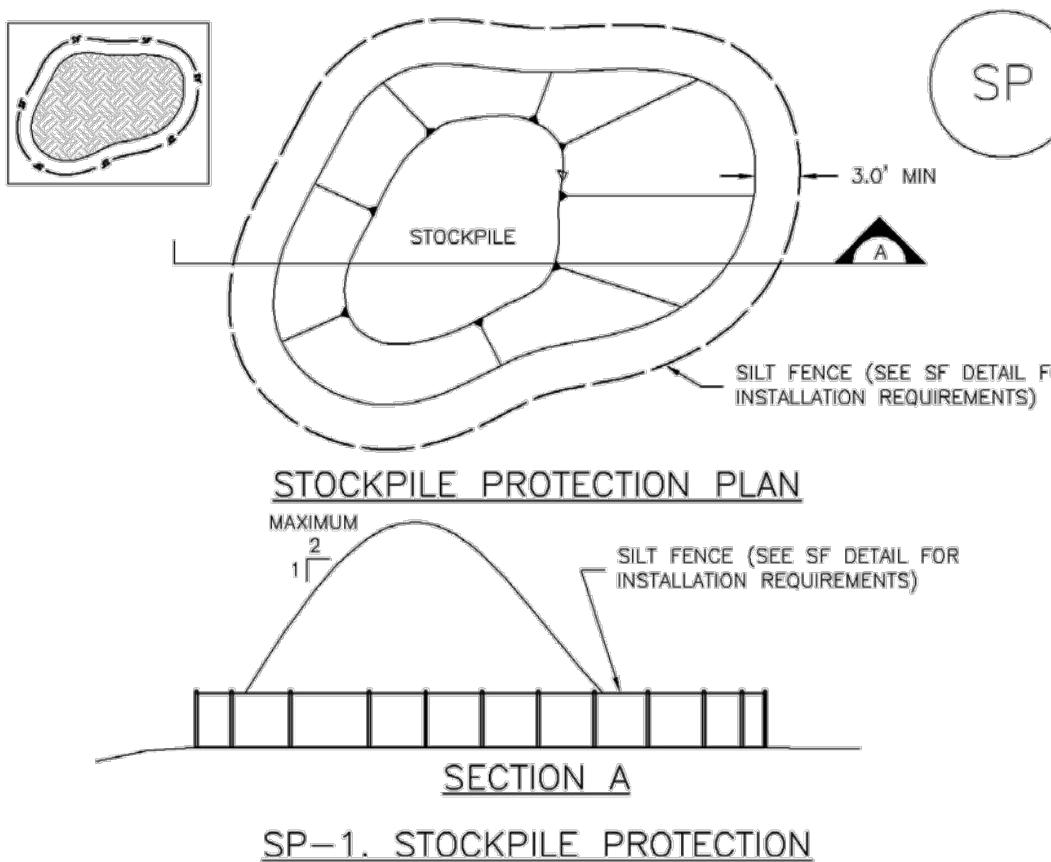
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Stockpile Management (SP)

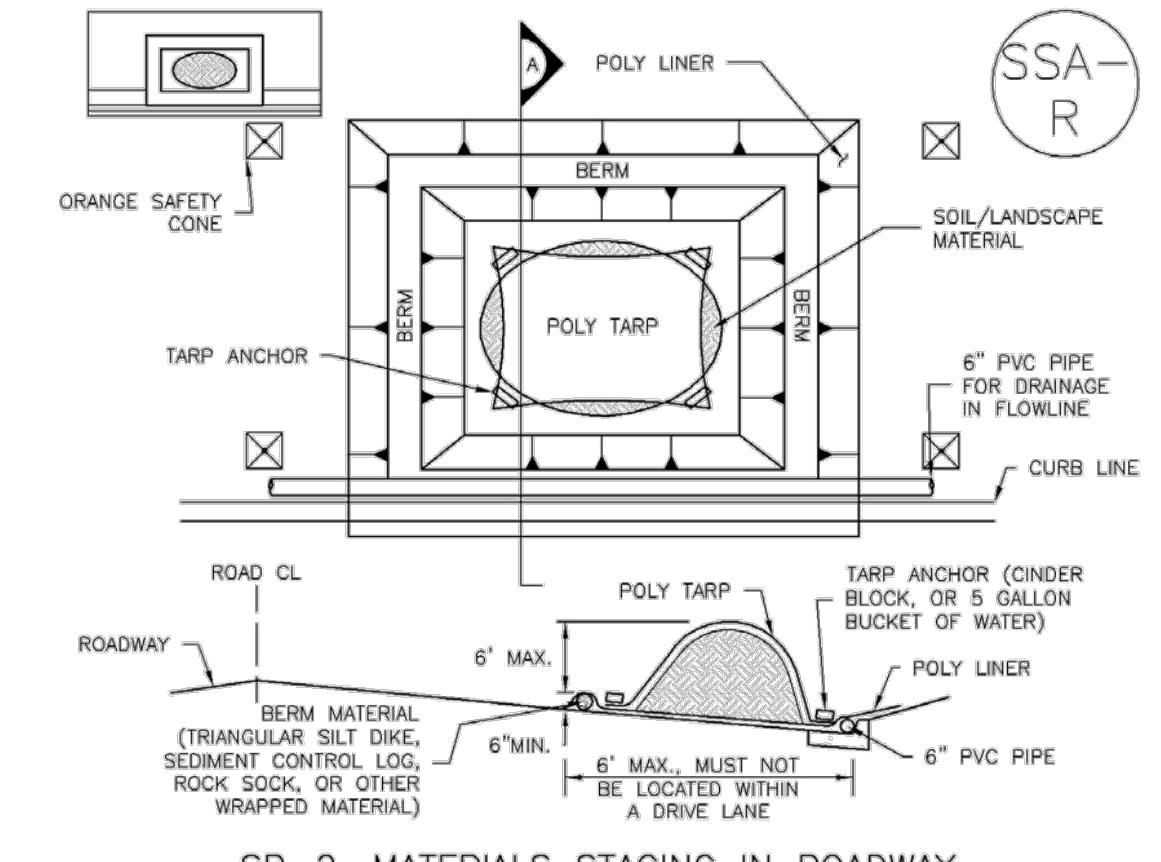
MM-2

**SP-1. STOCKPILE PROTECTION****STOCKPILE PROTECTION INSTALLATION NOTES**

1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUBSTITUTED. THE CIRCUIT BREAKER LOGIC FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE, WHETHER THE STOCKPILE IS EXPOSED TO MATERIAL FROM THE STOCKPILE, SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY 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.

November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3**Stockpile Management (SP)**

MM-2

**SP-2. MATERIALS STAGING IN ROADWAY****MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES**

1. SEE PLAN VIEW FOR: -LOCATION OF MATERIAL STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
3. MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE LINER.
6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.
7. THIS FEATURE CAN BE USED FOR:
 - UTILITY REPAIRS.
 - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
 - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

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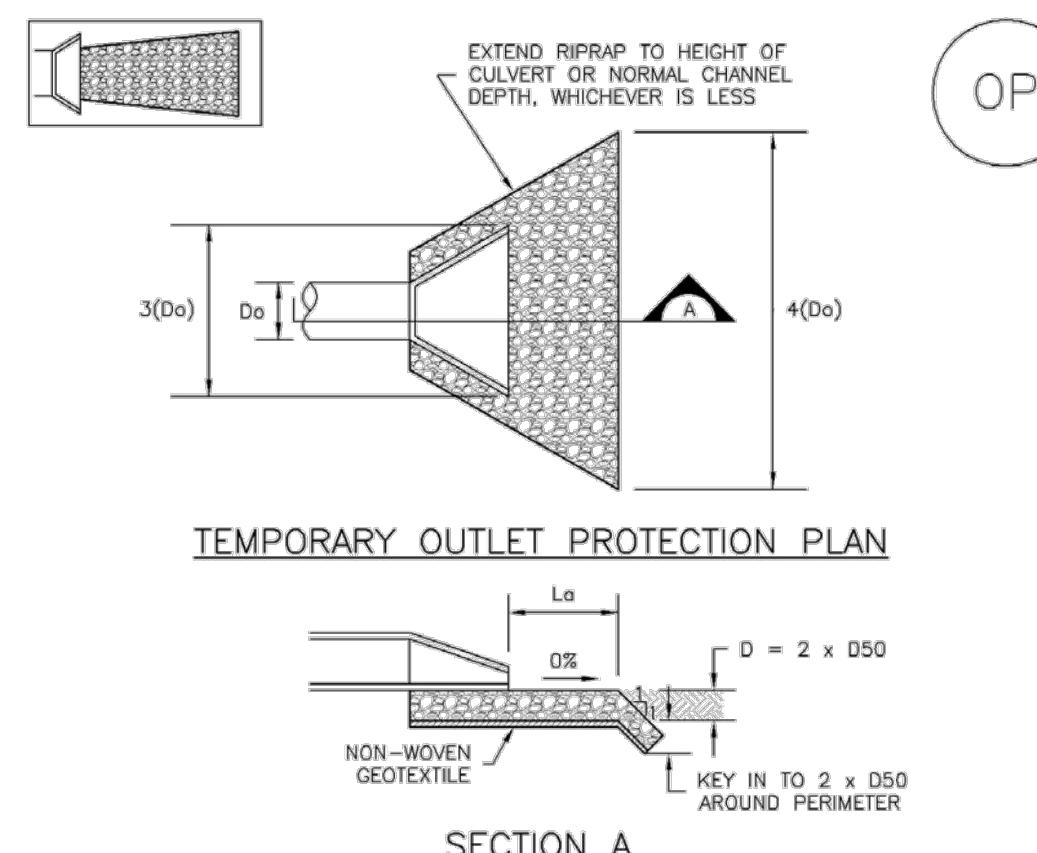
Temporary Outlet Protection (TOP)

TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE			
PIPE DIAMETER, D (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, L _a (FT)	RIPRAP D50 DIAMETER MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
18	10	10	9
	20	16	9
	30	23	12
	40	26	16
24	30	16	9
	40	26	12
	50	26	16
	60	30	16

OP-1. TEMPORARY OUTLET PROTECTION**MM-2****Stockpile Management (SM)****STOCKPILE PROTECTION MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROL BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROL BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM AURORA, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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**HARRIS
KOCHER
SMITH**
1120 Lincoln Street, Suite 1000
Denver, Colorado 80203
P: 303.423.6300 F: 303.623.6311
HarrisKocherSmith.com

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Stockpile Management (SP)

MM-2

Stockpile Management (SM)**MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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Temporary Outlet Protection (TOP)

1. SEE PLAN VIEW FOR: -LOCATION OF OUTLET PROTECTION. -DIMENSIONS OF OUTLET PROTECTION.
2. DETAIL IS INTENDED FOR PIPES WITH SLOPE $\leq 10\%$. ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
3. TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

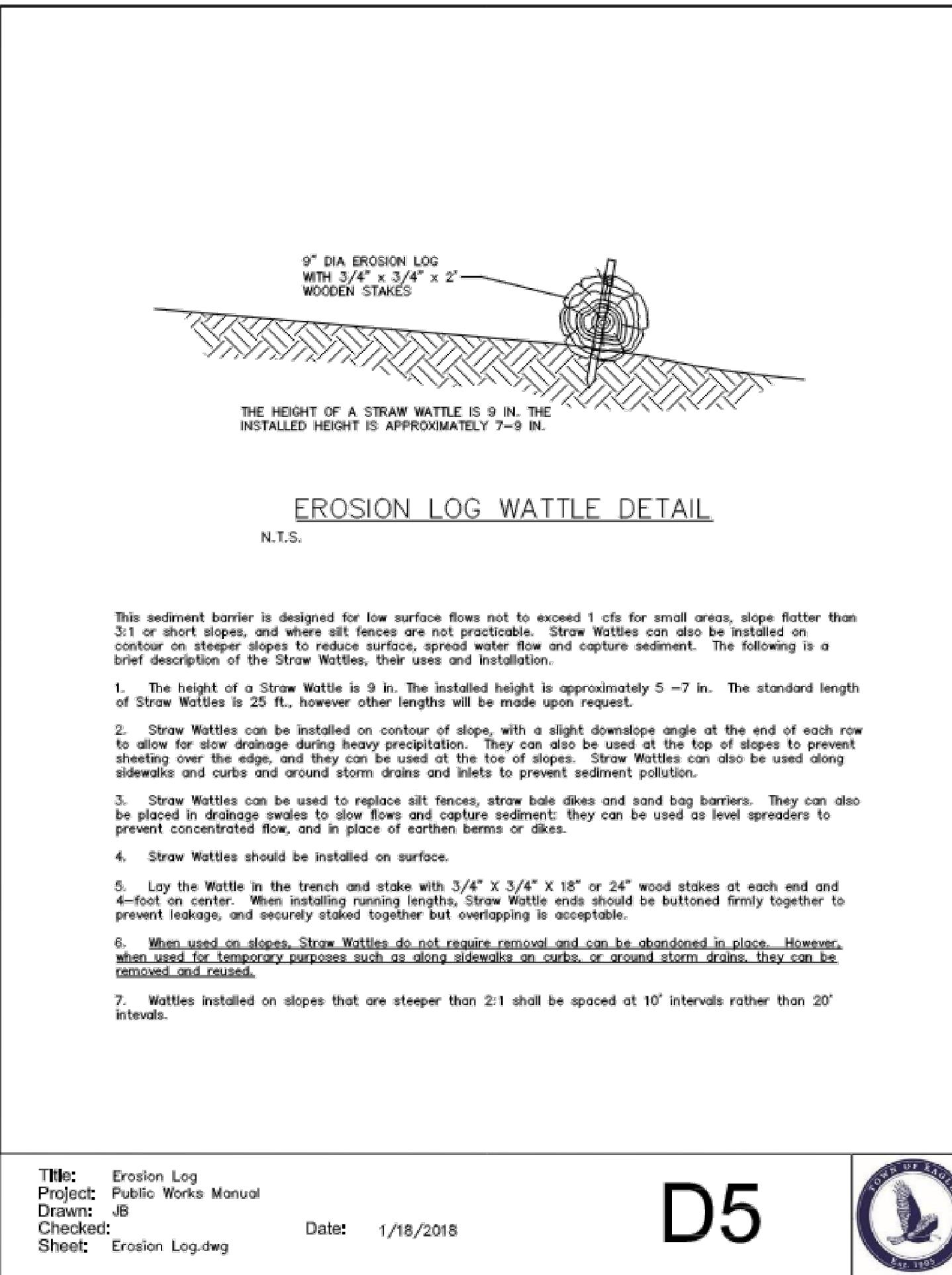
TOP-3
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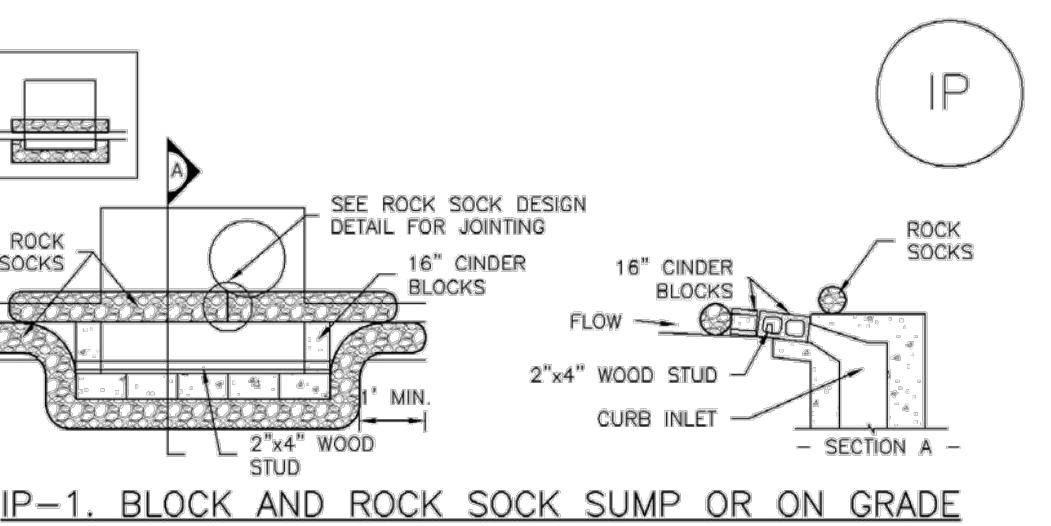
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HAYMEADOW FILING 2 - PHASES 2 & 4
GRADING, EROSION & SEDIMENT CONTROL DETAILS



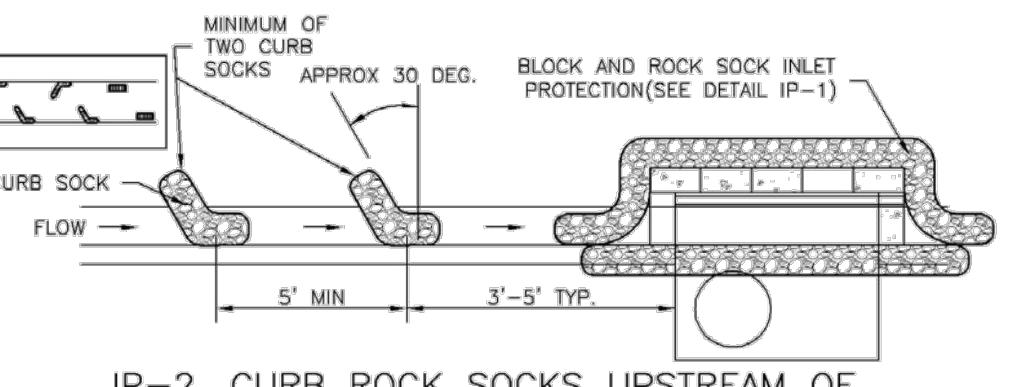
SC-6

Inlet Protection (IP)

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

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "ONDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. 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

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

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Project: Public Works Manual
Drawn: JB
Checked:
Sheet: Erosion Log.dwg

D5



Date: 1/18/2018

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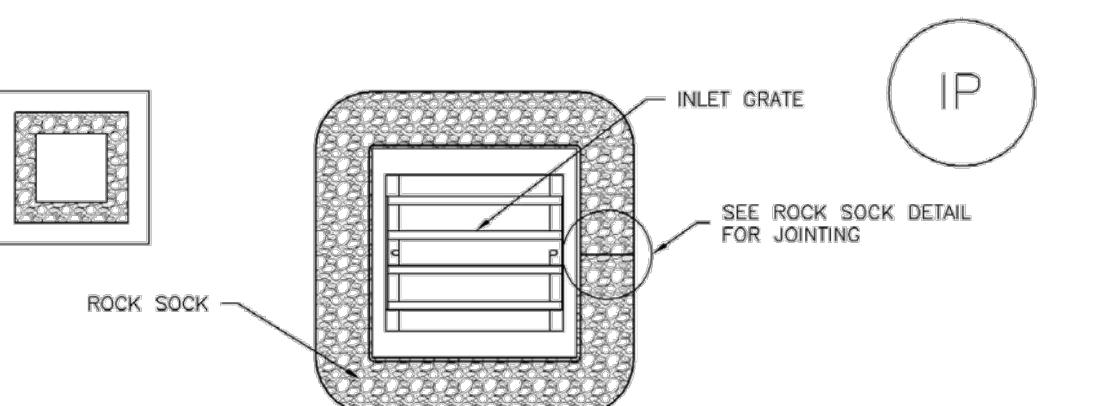
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Inlet Protection (IP)

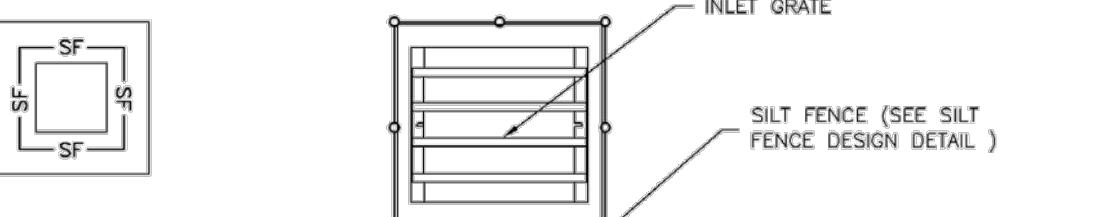
SC-6

Inlet Protection (IP)

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTERS/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

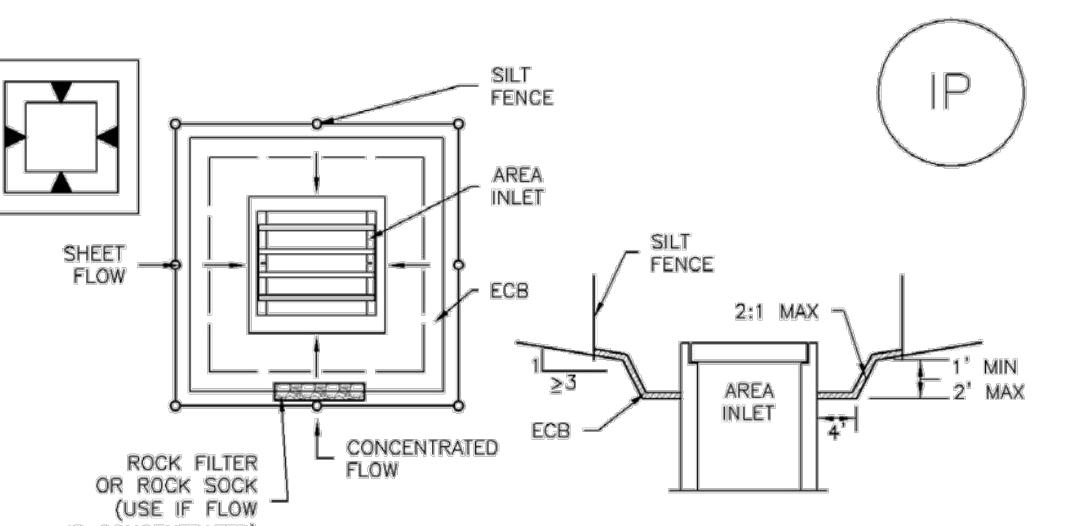


IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTERS/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

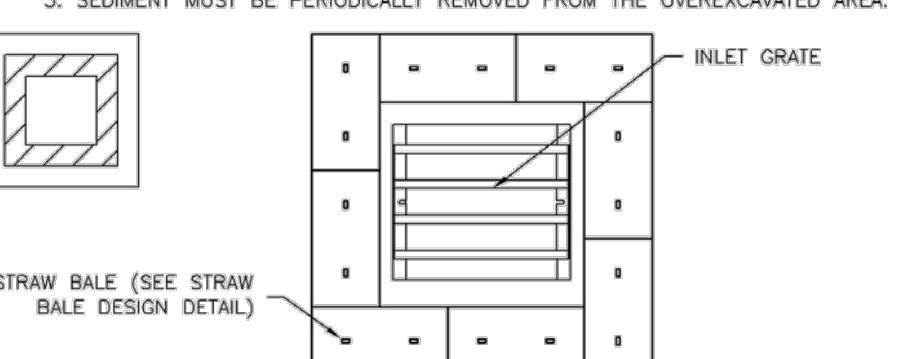
SC-6

Inlet Protection (IP)

IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

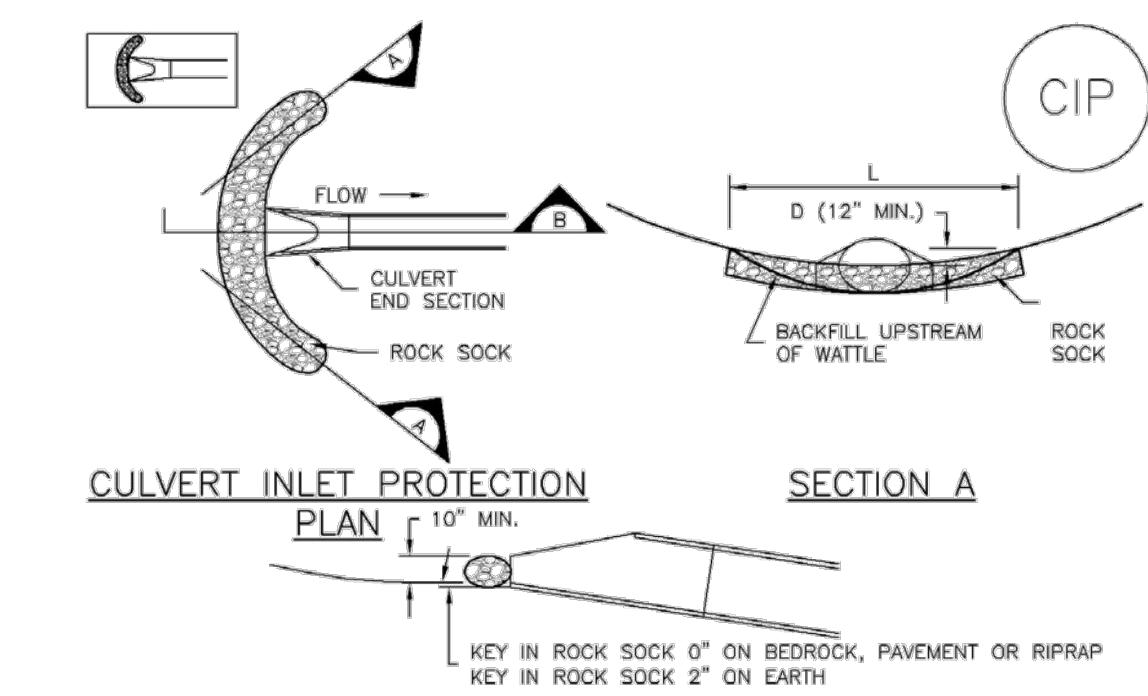


IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

Inlet Protection (IP)

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CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

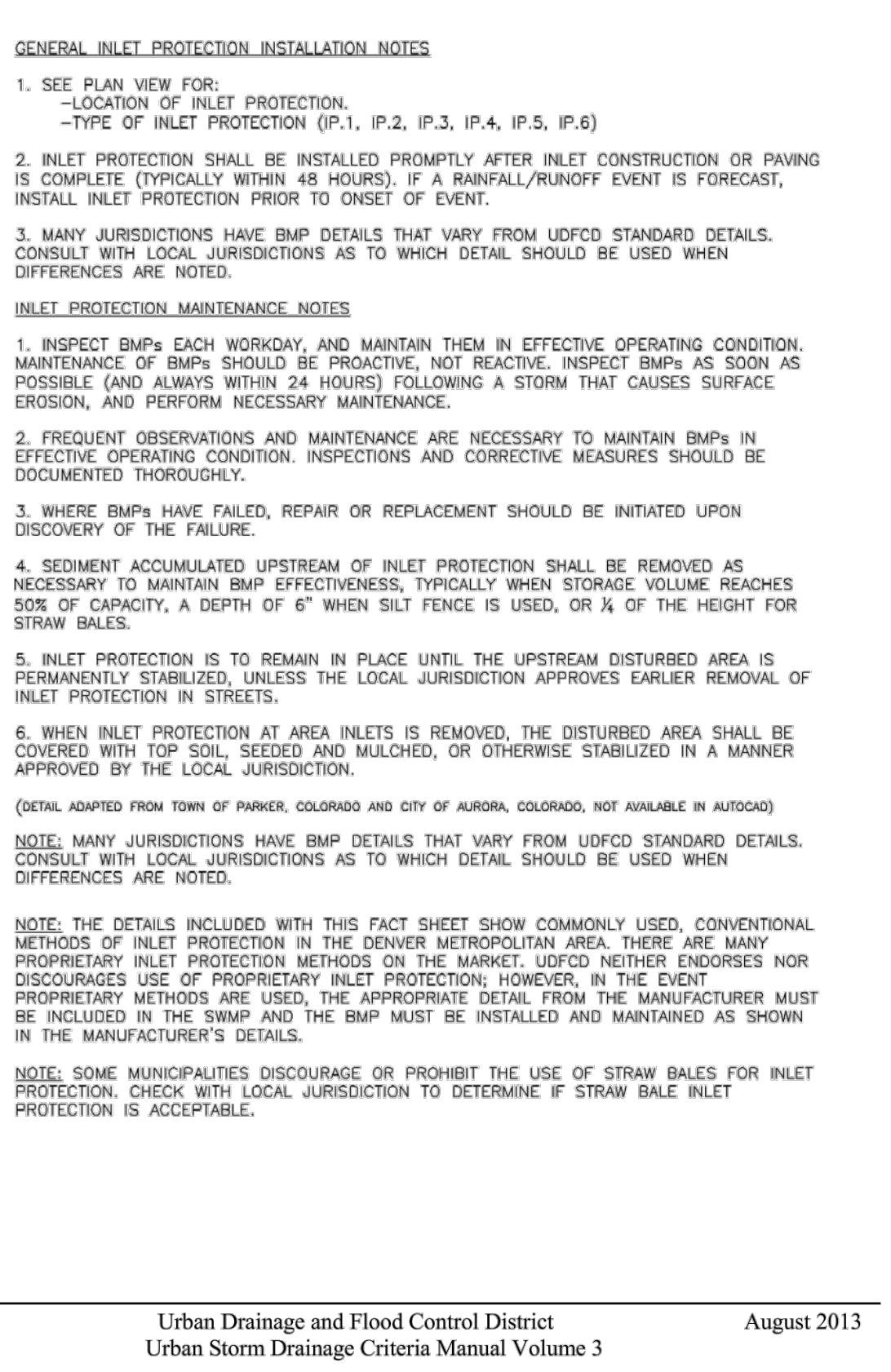
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURSES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY INLET PROTECTION IS APPROPRIATE, DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP, AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

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Inlet Protection (IP)

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GRADING, EROSION & SEDIMENT CONTROL DETAILSKnow what's below.
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ISSUE DATE: 11-19-2024	
DATE	REVISION COMMENTS
12-04-2024	BID SET
01-09-2025	BID SET
02-14-2025	PERTOWN OF EAGLE COMMENTS

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