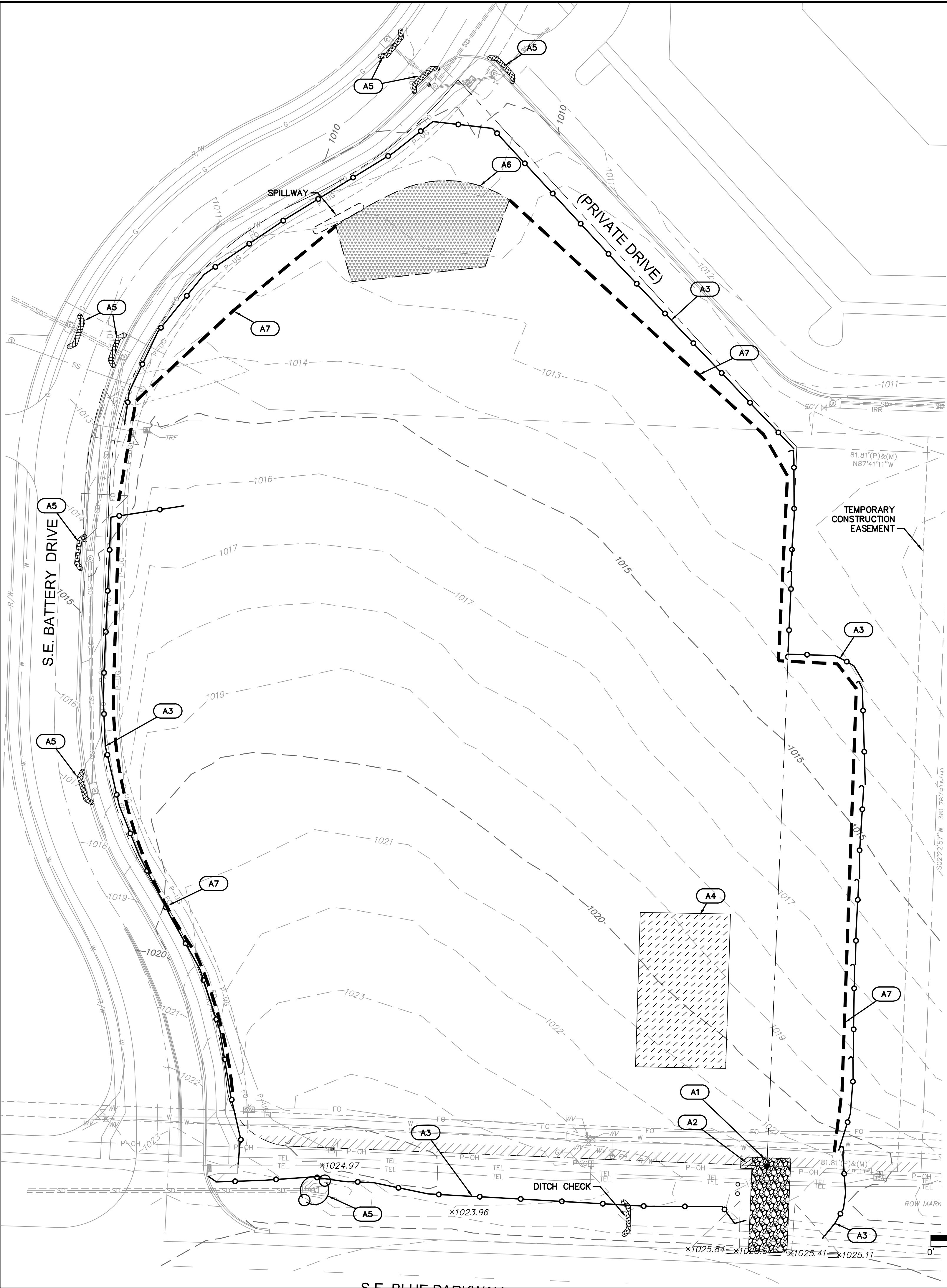


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SEDIMENT TRAP DESIGN DATA			
TITLE: 46 Summit			
JOB #: 0174865			
Design Item	Trap #1	Units	Notes:
<i>Pond Data</i>			
Drainage Area	1.02	acres	
Required Volume (1800 cf/acre)	69.0	cy	
Provided Volume	70.0	cy	
Excavated Volume	111.0	cy	
Sediment Cleanout Volume	14.0	cy	
Sediment Cleanout Elevation	917.1		

LEGEND

RIGHT OF WAY LINE

LOT LINE

EXISTING GRADE CONTOUR

FINISHED GRADE CONTOUR

GRAVEL FILTER BAGS

SEDIMENT FENCE

TEMPORARY 18" DIVERSION BERM (SEE DETAILS)

LIMITS OF DISTURBANCE (XX ACRES)

TEMPORARY CONSTRUCTION ENTRANCE

CONCRETE WASHOUT

STAGING/STOCKPILE AREA

EROSION CONTROL REFERENCE NUMBER

STRAW WATTLES

STABILIZATION. "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A2	CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY SLOPE BARRIER (SEDIMENT FENCE)	D	INSTALL AS INDICATED ON PLANS
	A4	STAGING / STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	EXISTING CURB INLET PROTECTION - TEMPORARY SEDIMENT BARRIER - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT TRAP	C	INSTALL AS INDICATED ON PLANS
	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
B - STORM SEWER & UTILITY CONSTRUCTION (STABILIZE ANY DISTURBED AREAS OUTSIDE OF BUILDING PADS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C - BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION B	D	INSTALL AS INDICATED ON PLANS
D - FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library

CONSTRUCTION DOCUMENT PLANS FOR

EAST LEE'S SUMMIT BRANCH

2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE 04

Engineer of Record

STATE OF MISSOURI

TERRY M. PARSONS

NUMBER PE-2018010505

8-11-2019

PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
1	ASI#1	02.18.19

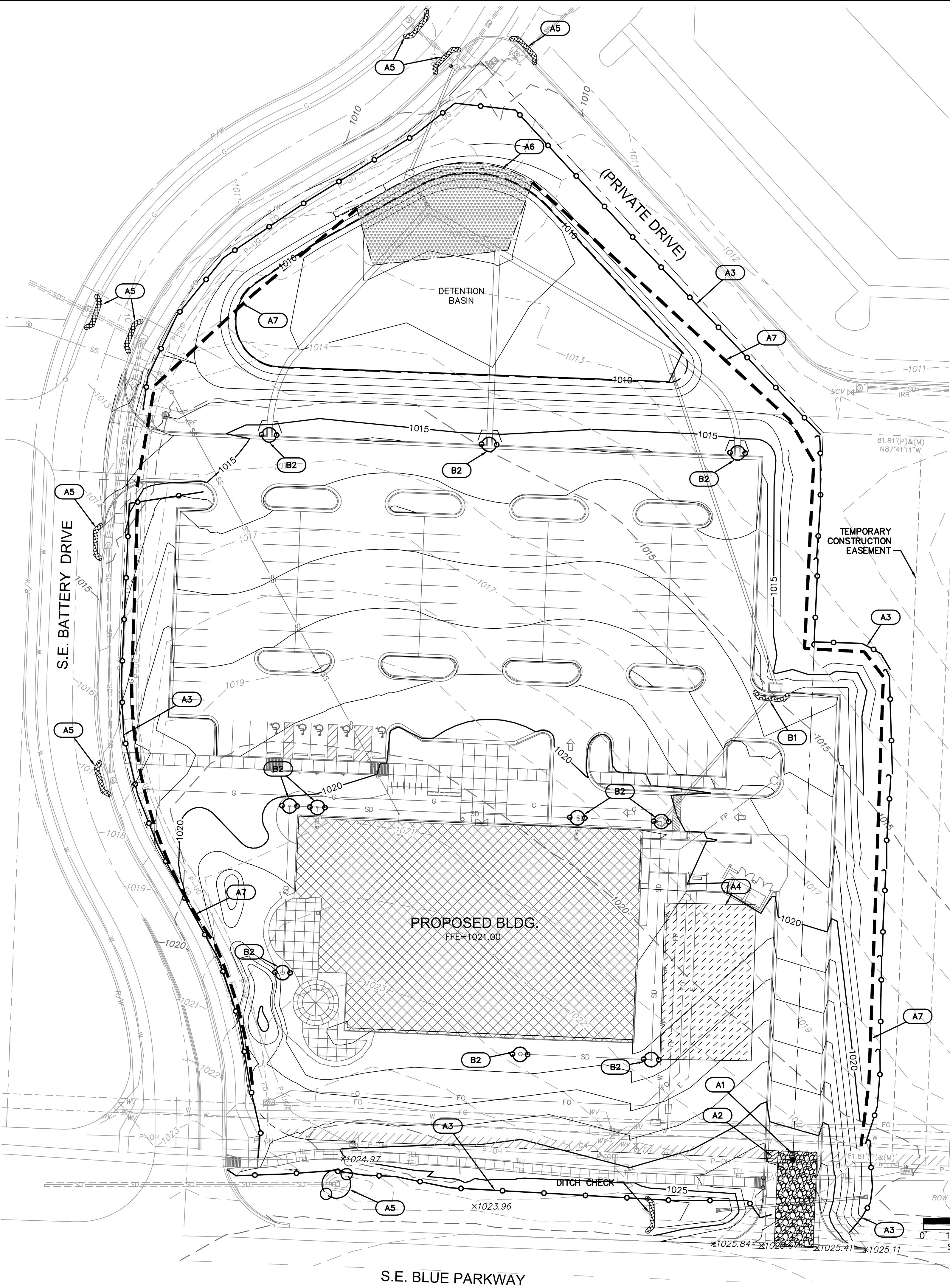
Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. C9.0

EROSION CONTROL PLAN - PRE CONSTRUCTION

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SEDIMENT TRAP DESIGN DATA			
TITLE: 46 Summit			
JOB #: 017-0865			
Design Item	Trap #1	Units	Notes:
Pond Data			
Drainage Area	1.02	acres	
Required Volume (1800 cft/acre)	69.0	cy	
Provided Volume	70.0	cy	
Excavated Volume	111.0	cy	
Sediment Cleanout Volume	14.0	cy	
Sediment Cleanout Elevation	917.1		

LEGEND	
	RIGHT OF WAY LINE
	LOT LINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	GRAVEL FILTER BAGS
	SEDIMENT FENCE
	TEMPORARY 18" DIVERSION BERM (SEE DETAILS)
	LIMITS OF DISTURBANCE (3.75 ACRES)
	TEMPORARY CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	STAGING/STOCKPILE AREA
	EROSION CONTROL REFERENCE NUMBER
	STRAW WATTLES
	STABILIZATION. "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
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	A5	EXISTING CURB INLET PROTECTION - TEMPORARY SEDIMENT BARRIER - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT TRAP AND STORM SEWER LINE D	C	INSTALL AS INDICATED ON PLANS
	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
	A8	SWPPP SIGN	C	INSTALL AS INDICATED ON PLANS
B - STORM SEWER & UTILITY CONSTRUCTION (STABILIZE ANY DISTURBED AREAS OUTSIDE OF BUILDING PADS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C - BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION B	D	INSTALL AS INDICATED ON PLANS
D - FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

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2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY
PACKAGE **04**

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
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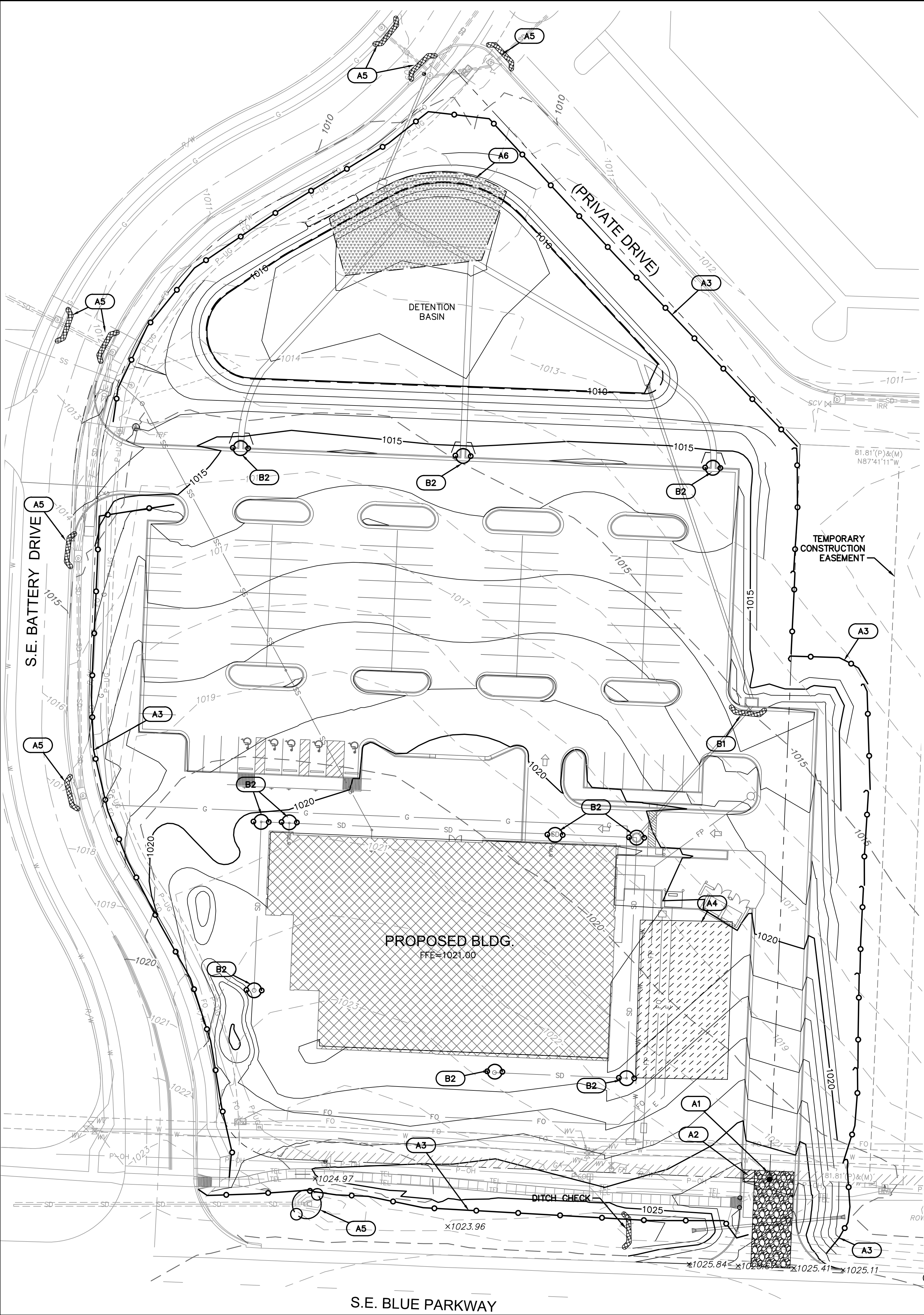
Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. **C9.1**

EROSION CONTROL -
CONSTRUCTION

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LEGEND

--- RIGHT OF WAY LINE
--- LOT LINE

--- EXISTING GRADE CONTOUR
--- FINISHED GRADE CONTOUR

GRAVEL FILTER BAGS
WADDLE
SEDIMENT FENCE

--- LIMITS OF DISTURBANCE (3.75 ACRES)

TEMPORARY CONSTRUCTION ENTRANCE
CONCRETE WASHOUT
STAGING/STOCKPILE AREA
EROSION CONTROL REFERENCE NUMBER
STRAW WATTLES

STABILIZATION, "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
PLOT	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
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	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
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	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C - BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION B	D	INSTALL AS INDICATED ON PLANS
D - FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

SAPP
DESIGN
ARCHITECTS

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Mid-Continent Public Library

CONSTRUCTION DOCUMENT PLANS FOR

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JACKSON COUNTY

PACKAGE
04

Engineer of Record

STATE OF MISSOURI

TERRY M. PARSONS

NUMBER
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PROFESSIONAL ENGINEER

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Revision No.

Description

Date

1

ASI#1

02.18.19

Project No.

Date

Drawn

B18-0330

12.07.18

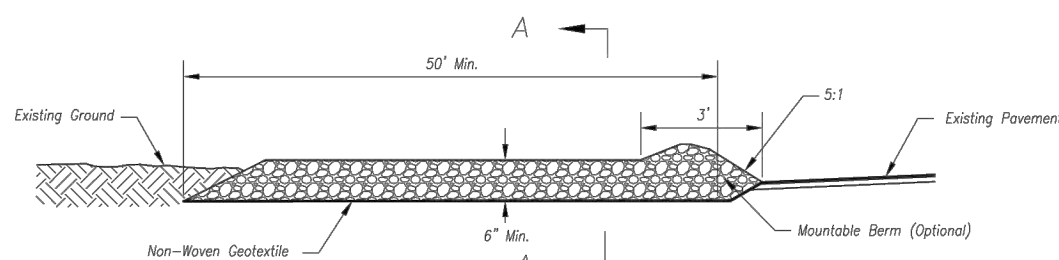
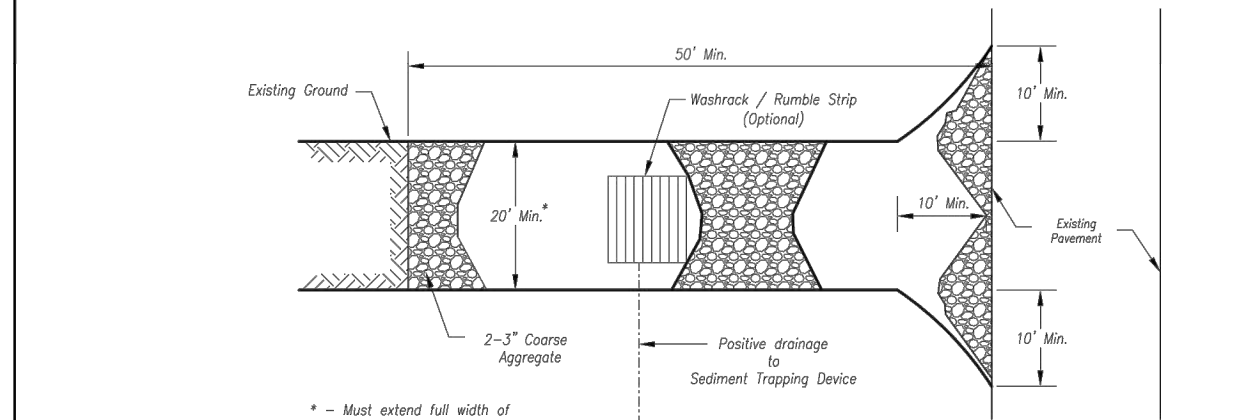
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Drawing No.

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EROSION CONTROL -
POST CONSTRUCTION

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Section A-A

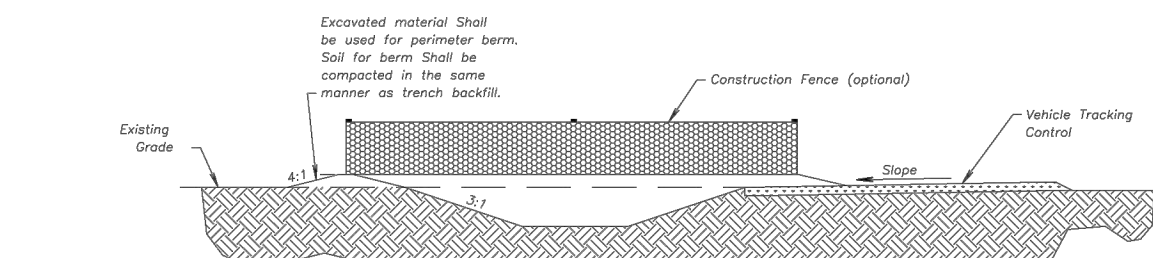
Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or overland of elevated areas.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 20:1 side slopes across the foundation approximately 15 feet from the edge of the public road to direct runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Lane surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top areas with clean aggregate as needed.

CONSTRUCTION ENTRANCE



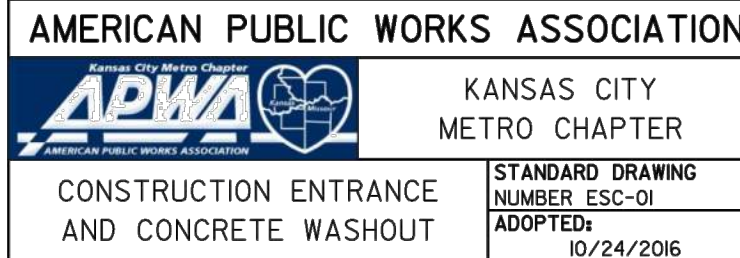
Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout areas shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking post shall be placed towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and dump trucks.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

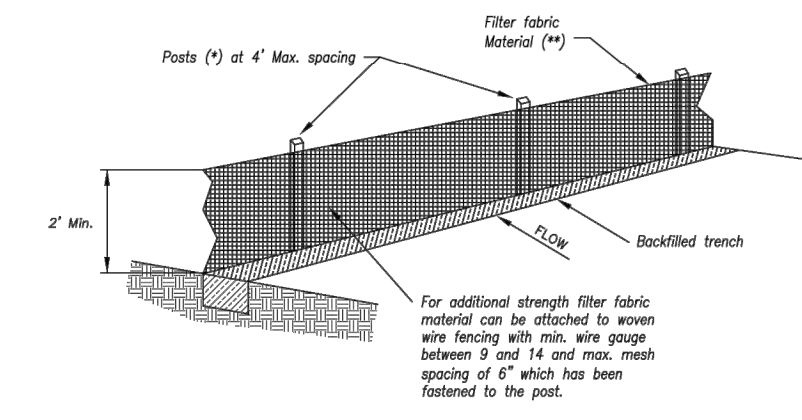
Maintenance for Concrete Washout:

1. Concrete washout material shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, washed pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a wheel-tight container and disposed off property.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topped, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

CONCRETE WASHOUT



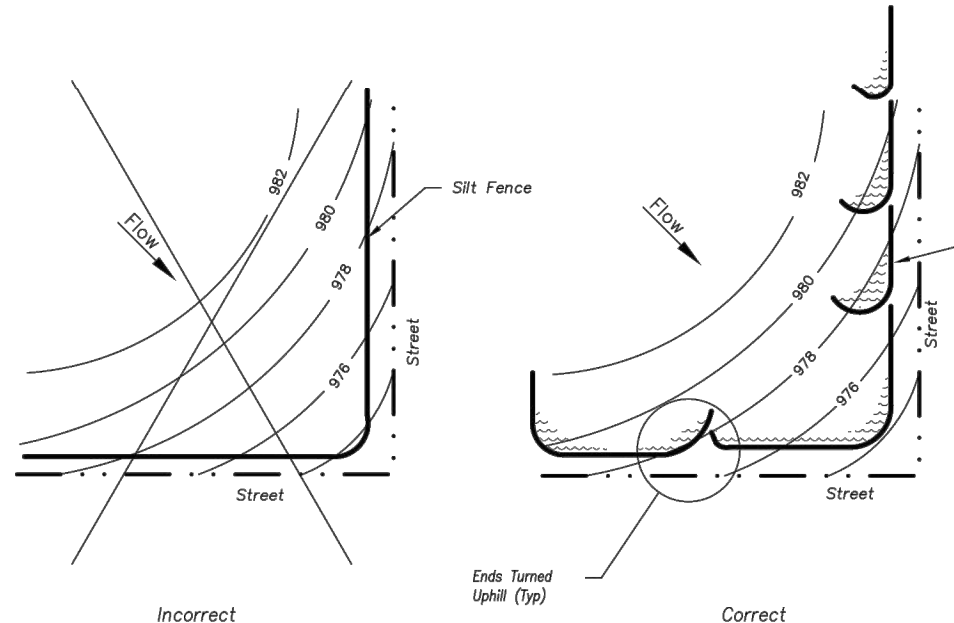
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.



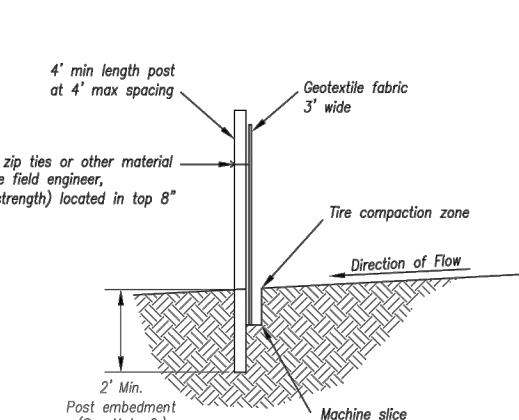
- (*) POSTS
- MIN. LENGTH 4'
 - HARDWOOD 1 3/4" x 1 3/4"
 - NO.2 SOUTHERN PINE 2 3/4" x 2 3/4"
 - STEEL 1.33 LB/FT

(*) - Geotextile Fabric shall meet the requirements of ASHTO M288

SILT FENCE DETAILS



SILT FENCE LAYOUT

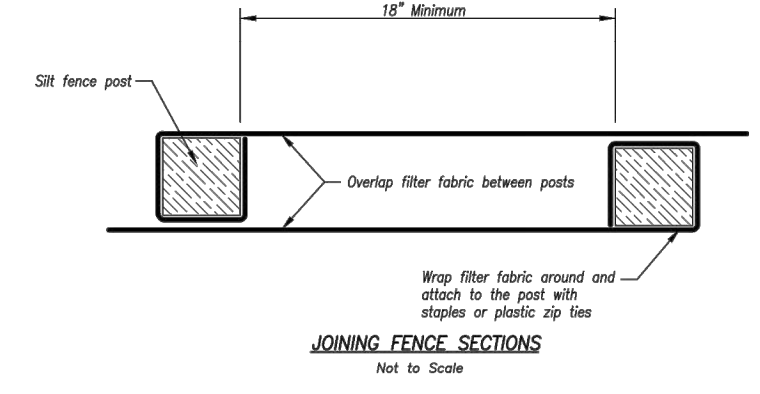


Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Tranching will only be allowed for small or difficult installation, where sloping machine cannot be reasonably used.

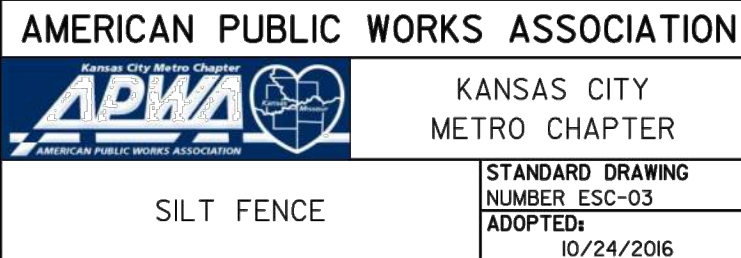
Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
2. Repair as necessary to maintain function and structure.

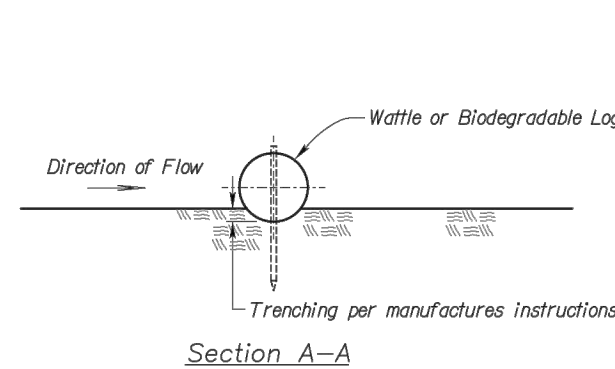


JOINING FENCE SECTIONS

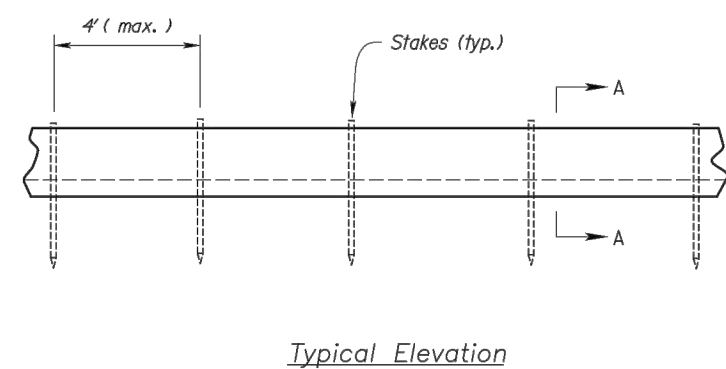
Not to Scale



Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



WATTLES AND BIODEGRADABLE LOG



Notes for Wattles and Biodegradable Log Slope Protection:

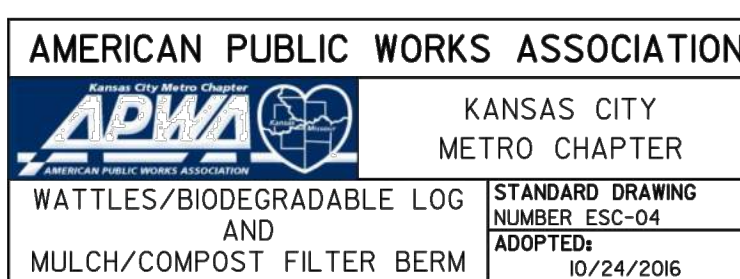
1. The Slope barriers shall be placed along contour lines, with a short section turned uphill at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

Notes for Mulch and Compost Filter Berms:

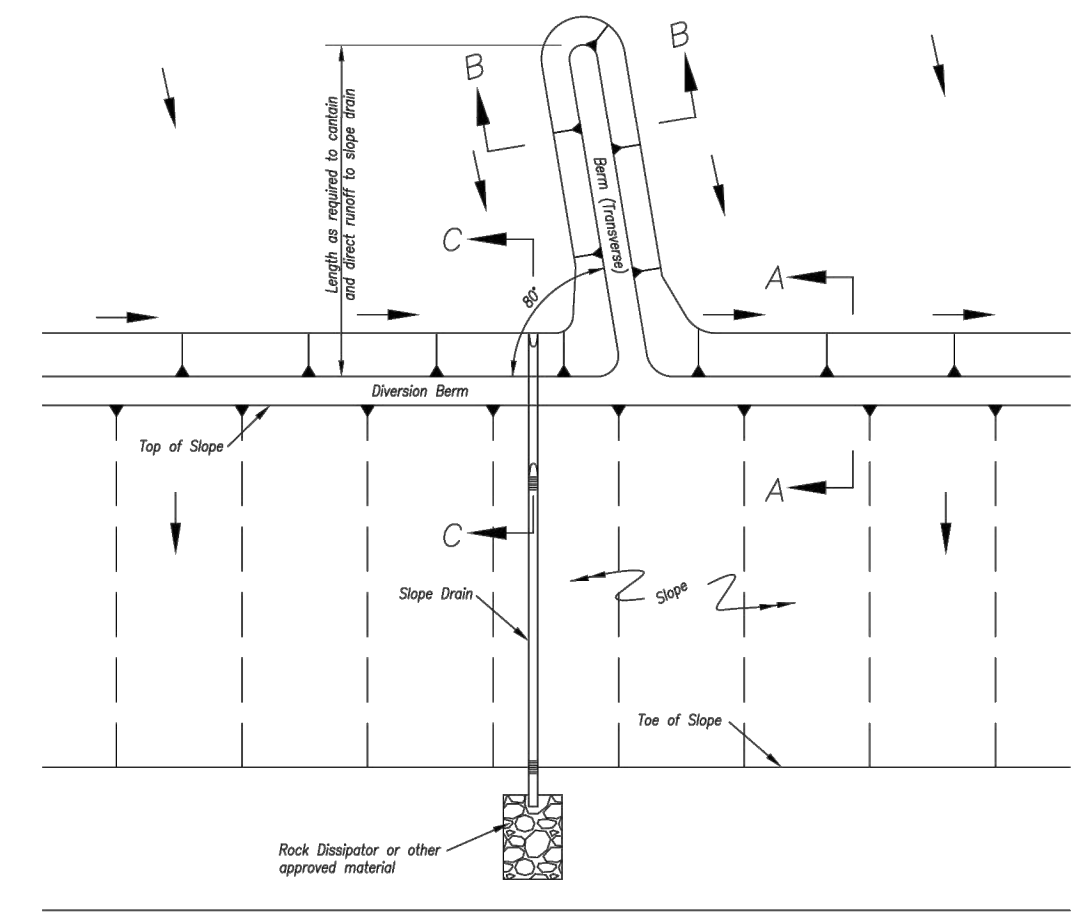
1. The sediment control berm shall be placed uncompact in a windrow of locations shown on the plans or as directed by the engineer.
2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
3. If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
5. Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, tub grinder or other approved method. Mulch sizing varies with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Berms:

1. Berms shall be reshaped and material added as necessary to maintain function and dimensions.
2. Breaches in the berm shall be repaired promptly.



Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

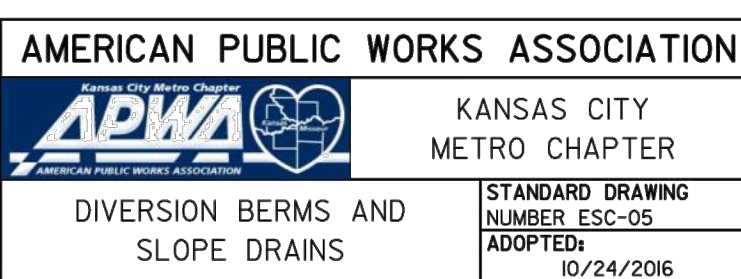
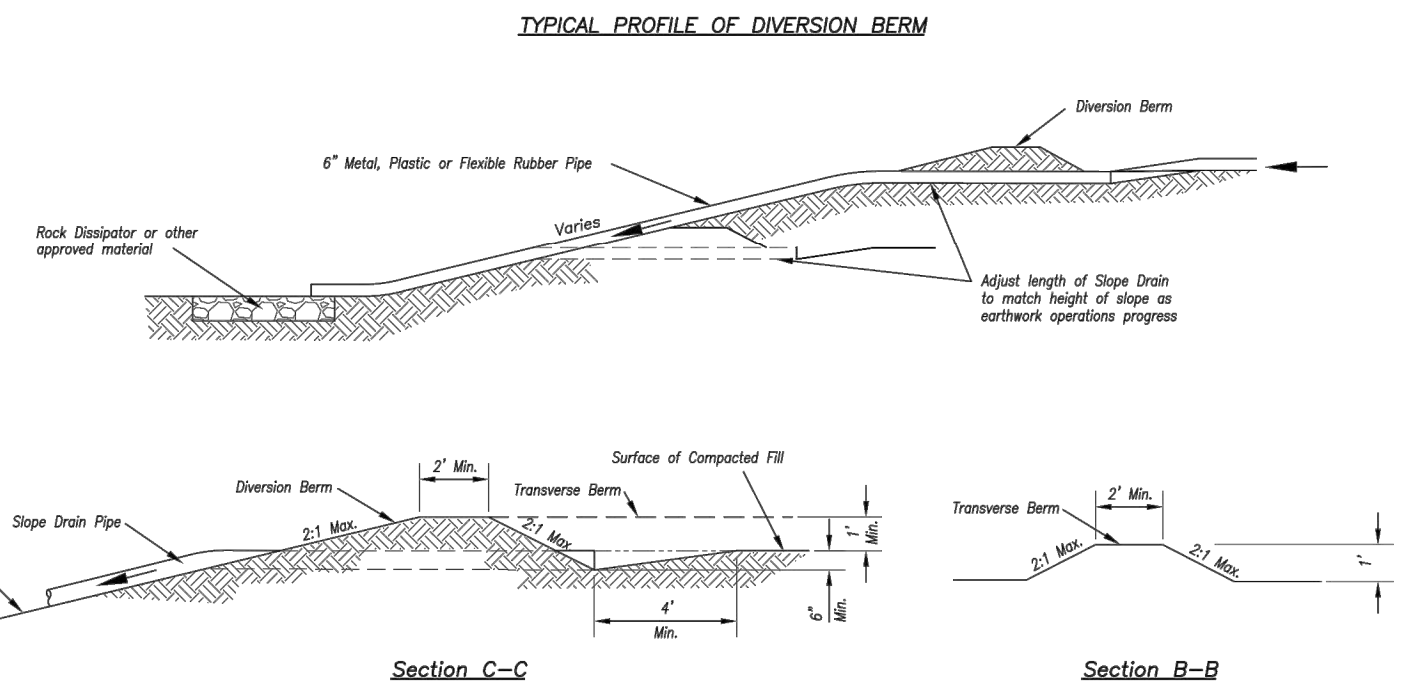
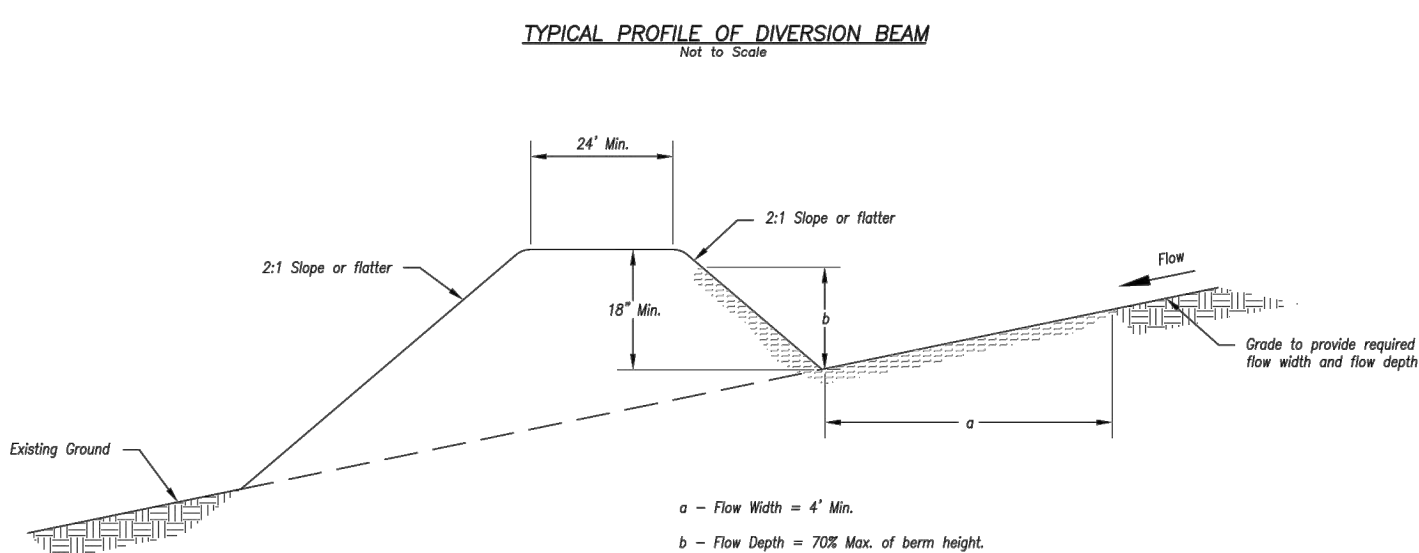


Notes for Diversion Berm:

1. Slope drains are optional, but may be required by the engineer if the berm is at the top of a steep slope.
2. Diversion berms must be installed as a first step in the land-disturbing activity and must be functional prior to upstate land disturbance.
3. The berm should be adequately compacted to prevent failure.
4. Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
5. Place the berm so to minimize damages by construction operations and traffic.
6. The berm must discharge to a temporary sediment trap or stabilized area.
7. All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of diversion.
8. The diversion shall be excavated or shaped to line, grade and cross-section as required to meet the criteria specified herein, free of irregularities which will impede flow.
9. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion. Fill shall be composed of soil which is free from excessive organic debris, rocks or other objectionable materials.

Maintenance:

1. Berms shall be reshaped, compacted, and stabilized as necessary to maintain its function.
2. Breaches in the berm shall be repaired immediately.



Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

SAPP DESIGN ARCHITECTS

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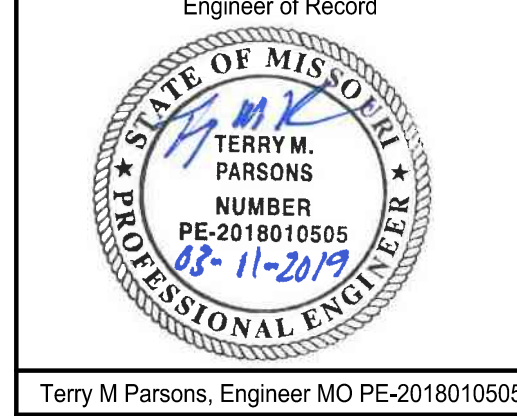
EAST LEE'S SUMMIT BRANCH

Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR

CONSTRUCTION DOCUMENT PLANS FOR

2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE 04



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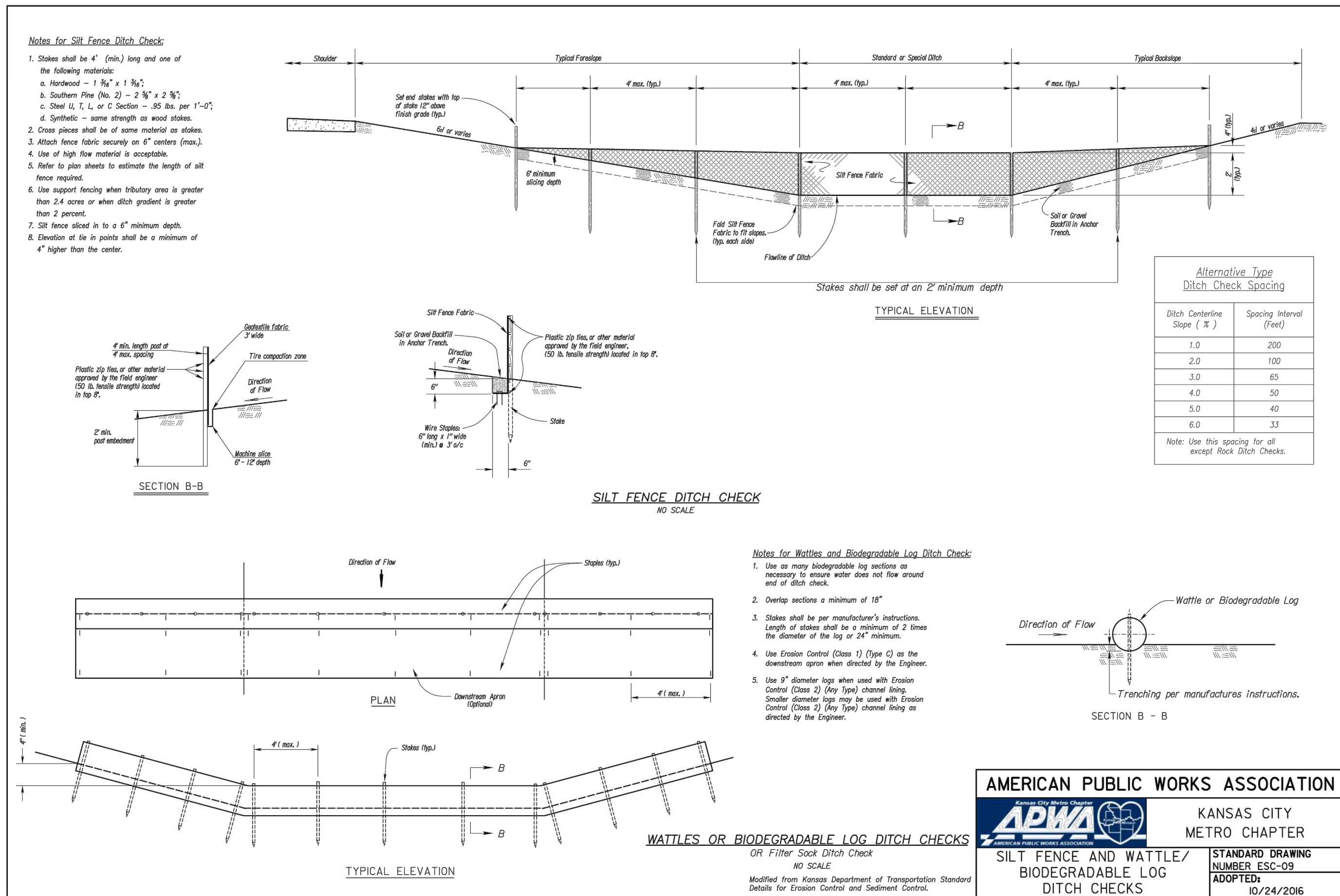
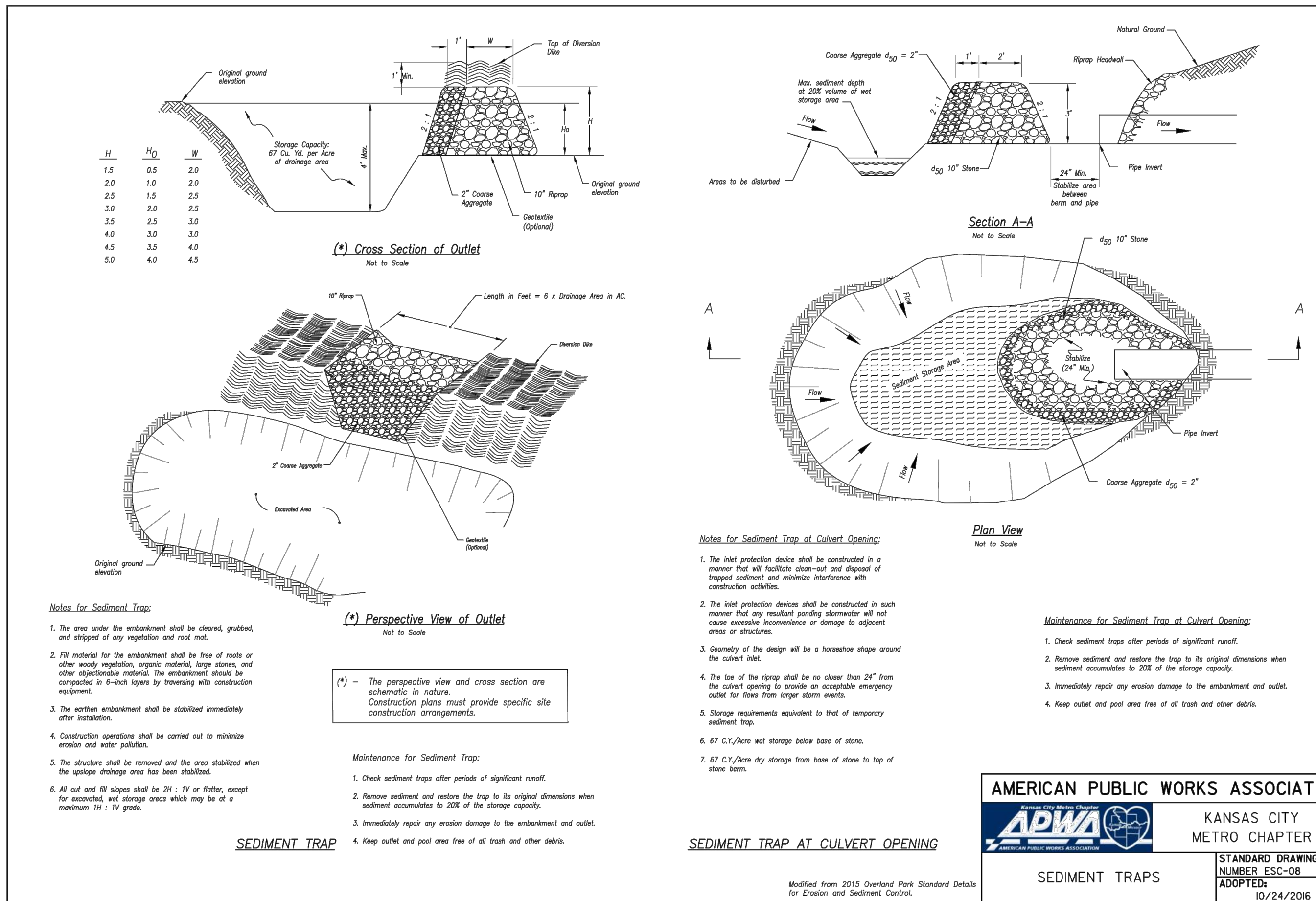
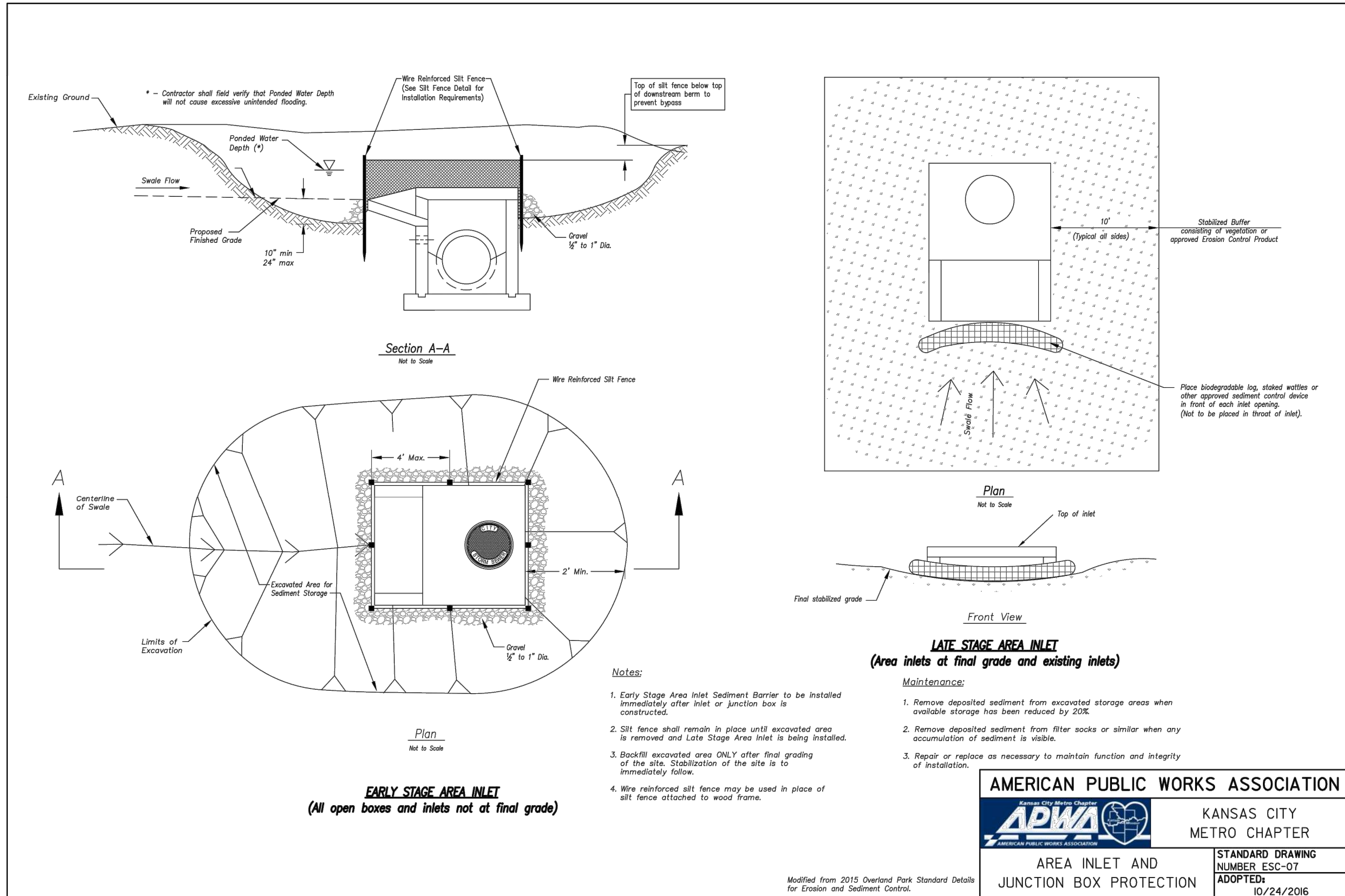
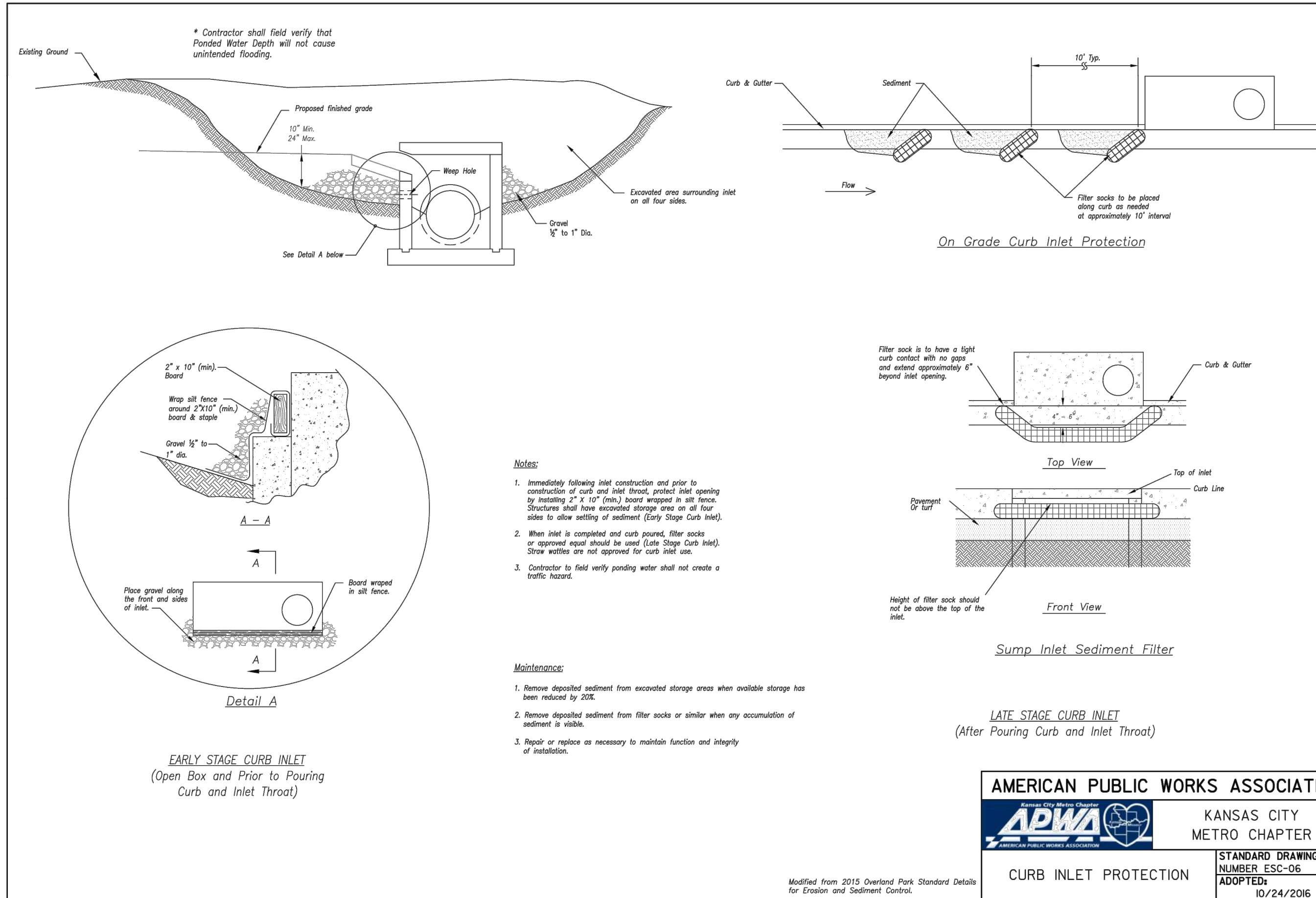
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Revision No.	Description	Date
1	ASI#1	02.18.19

Project No. B18-0330 Date 12.07.18 Drawn RLK
Drawing No. C9.3
EROSION CONTROL DETAILS

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