LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

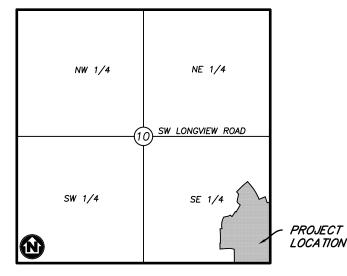
SEC. 10, TWP. 47N, RNG. 32W

MDNR OPERATING PERMIT NUMBER: MORA17244

LOTS: 160-210 (51 TOTAL)

SHEET INDEX:

C508 - OUTLET PROTECTION DETAILS



## **VICINITY MAP**

SECTION 10, TOWNSHIP 47, RANGE 32 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI NOT TO SCALE

#### LEGAL DESCRIPTION:

THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 47 NORTH, RANGE 32 WEST, EXCEPT THOSE PARTS PLATTED AS HIGHLAND PLAT, HIGHLANDS MEADOWS THIRD PLAT, HIGHLAND MEADOWS 4TH PLAT, SUBDIVISIONS IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.





#### UTILITY CONTACTS:

SANITARY & WATER: CITY OF LEE'S SUMMIT JEFF THORN 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE (816) 969-1900

<u>STREETS:</u> CITY OF LEE'S SUMMIT MICHAEL PARK 220 SE GREEN STREET PHONE (816) 969-1900

EVERGY: DOUG DAVIN 1300 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 PHONE (816) 347-4320

# STORMWATER:

PUBLIC WORKS 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE (816) 969-1800

RONALD GIPFERT 500 E 8TH STREET KANSAS CITY, MO 64106 LEE'S SUMMIT. MO 64063 PHONE (816) 275-1550

> RICHARD FROCK 3025 SW CLOVER DRIVE LEE'S SUMMIT, MO 64082 PHONE (816) 472-3489

#### FEMA FLOOD INFORMATION:

THE SITE IS LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, PER FEMA FIRM MAP 29095C0418G: EFFECTIVE DATE OF JANUARY 20, 2017. NO LETTERS OF MAP AMENDMENT OR REVISIONS ARE BEING PROPOSED.

#### **BENCHMARK:**

BM #1 N=999843.9665 E=2898946.9717 ELEV=935.04 DESCRIPTION = "JA-148" REFERENCE SYSTEM MONUMENT

# CITY OF LEE'S SUMMIT

MISSOURI GAS ENERGY:

#### SURVEY CONTROL:

WATERSHED: LITTLE BLUE RIVER

DATE: 2/11/2021

COORDINATES ARE BASED ON THE MISSOURI STATE PLANE COORDINATE SYSTEM, WEST ZONE, USING JACKSON COUNTY, MISSOURI, GEOGRAPHIC REFERENCE SYSTEM MONUMENT JA-148 (2003) ADJUSTMENT) AND ARE MODIFIED FROM GRIS COORDINATÉS TO GROUND COORDINATES BY UTILIZING A GRID SCALE FACTOR OF 0.9999020 AT REFERENCE MONUMENT JA-148.

PROJECT ELEVATIONS ARE BASED ON JACKSON COUNTY, MISSOURI, GEOGRAPHIC REFERENCE SYSTEM MONUMENT JA-148 (2003 ADJUSTMENT).

"JA-148" - STANDARD KC METRO ALUMINUM GRS DISK SET IN CONCRETE FLUSH WITH THE GROUND AND STAMPED "JA-148, 2002" LOCATED ON THE NORTH SIDE OF 3RD STREET, 12.5 FEET NORTH OF A SIDEWALK AND 102.5 FEET WEST OF THE PARKING LOT EXIT OF CEDAR CREEK ELEMENTARY SCHOOL.

# GENERAL NOTES:

- 1. CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE EXISTING CONDITIONS OF THE SITE AND HAVE ALL UTILITIES MARKED PRIOR TO COMMENCING CONSTRUCTION.
- 2. CONTRACTOR SHALL POTHOLE ALL CONNECTION POINTS TO EXISTING UTILITIES AND POTENTIAL UTILITY CONFLICT LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES. NOTIFY ENGINEER IMMEDIATELY IF CONFLICT OR DISCREPANCY EXISTS.
- 3. CONTRACTOR SHALL PROTECT EXISTING STRUCTURES TO REMAIN FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED/ REPLACED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
- 4. CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

# PROJECT SPECIFICATIONS:

THE SPECIFICATIONS FOR THIS PROJECT SHALL BE THE FOLLOWING:

MOST CURRENT VERSION OF THE DESIGN AND CONSTRUCTION MANUAL OF THE CITY OF LEE'S SUMMIT AS ADOPTED BY ORDINANCE 5813.

THE STANDARD SPECIFICATIONS THROUGH AND INCLUDING THE LATEST AMENDMENTS SHALL BE PART OF THESE PROJECT DRAWINGS AND SPECIFICATIONS AND ARE INCORPORATED HEREIN BY REFERENCE. THE MORE STRINGENT OF THESE STANDARD SPECIFICATIONS AND THOSE PREPARED BY THE ENGINEER PREPARING THESE PLANS SHALL GOVERN.

#### OIL AND GAS WELL NOTES:

NO ABANDONED OIL OR GAS WELLS HAVE BEEN IDENTIFIED WITHIN THE PROPERTY LIMITS OF THE PROPOSED CONSTRUCTION ACTIVITIES, PER THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) PERMITTED OIL AND GAS DATABASE, DATED JUNE 2, 2020.

DISTURBED AREA: 14.9 AC

BRAD KEMPF SUMMIT HOMES KC 120 SE 30TH STREET LEE'S SUMMIT, MO 64082 BRADLEY@SUMMITHOMESKC.COM (816) 927–9711

#### CIVIL ENGINEER:

DEVELOPER:

ZACH MYERS ANDERSON ENGINEERING, INC. 941 W 141ST TERR KANSAS CITY, MO 64145 ZMYERS@ANDERSONENGINEERINGINC.COM (816) 380–4821

## PREPARED & SUBMITTED BY:

ANDERSON ENGINEERING INC. KANSAS CITY, MISSOURI

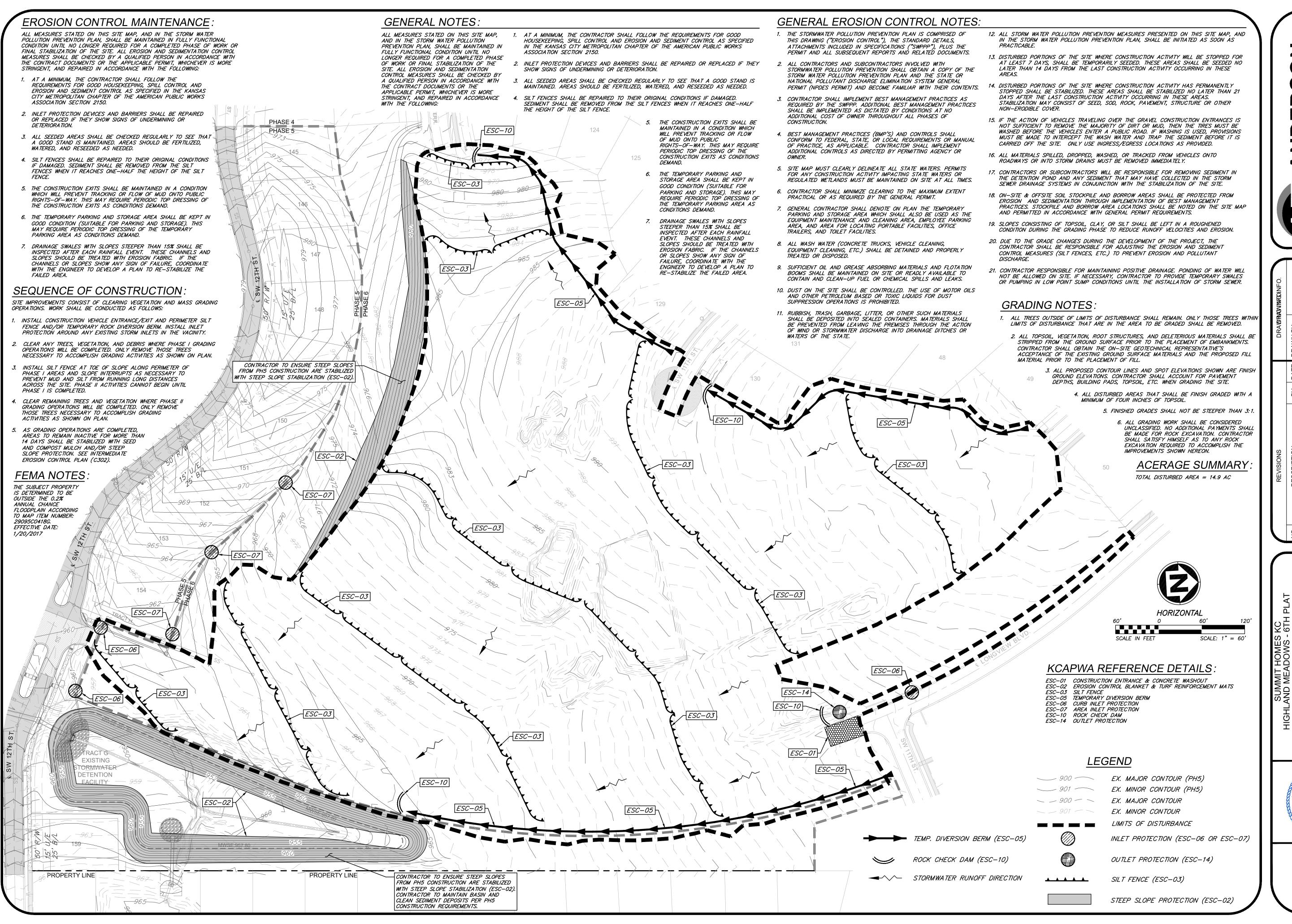
ZACH MYERS, P.E. MISSOURI P.E. NO. 2012009232

DATE

	REVISIONS			DRAWIN	DRAWING INFO.
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	29
1	REVISED PER CITY COMMENT	CC	2/11/21	GC 2/11/21 CHECK BY:	ZM
				LICENSE NO.	PE-2012009
				DATE:	1/7/2021
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				JOB NUMBER:	20KC10058
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2020	. 2020		MO COA NO.	000062

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SHEET NUMBER 1 of 12

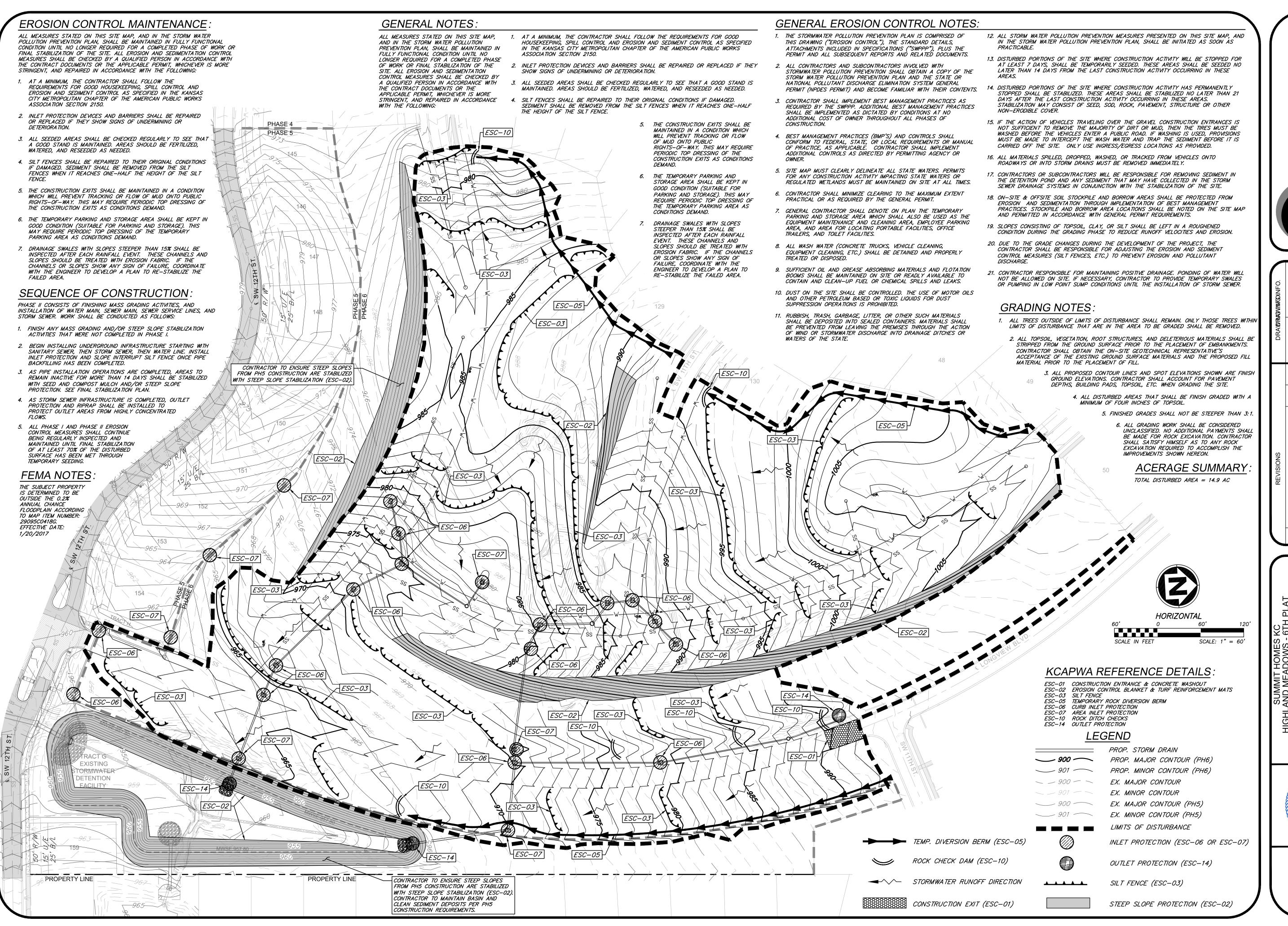


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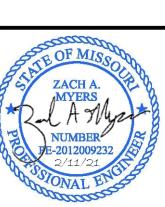
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2 of 12

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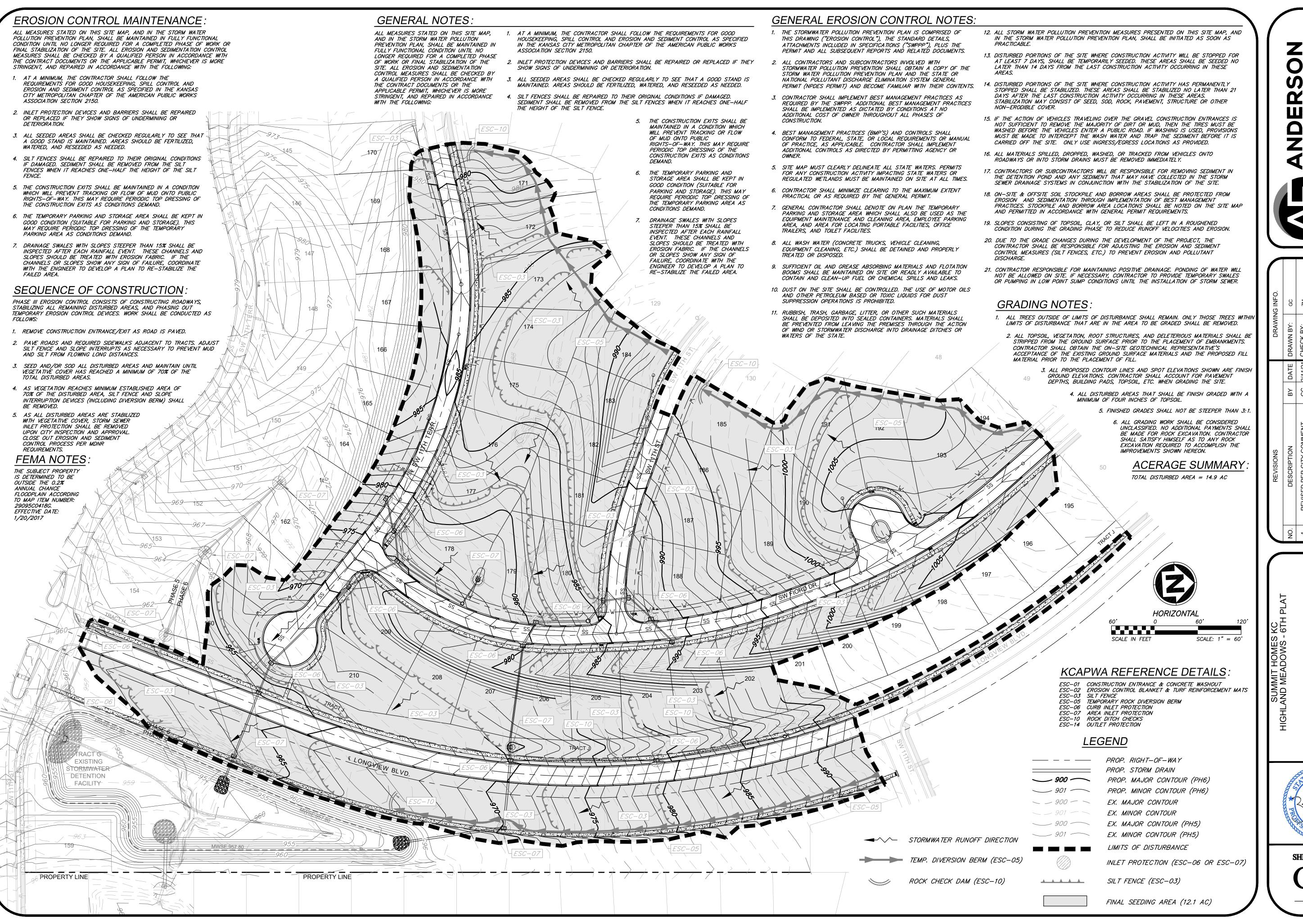
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 PE-2012009232

 DATE:
 1/7/2021

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STABILIZATION N CONTROL PLA

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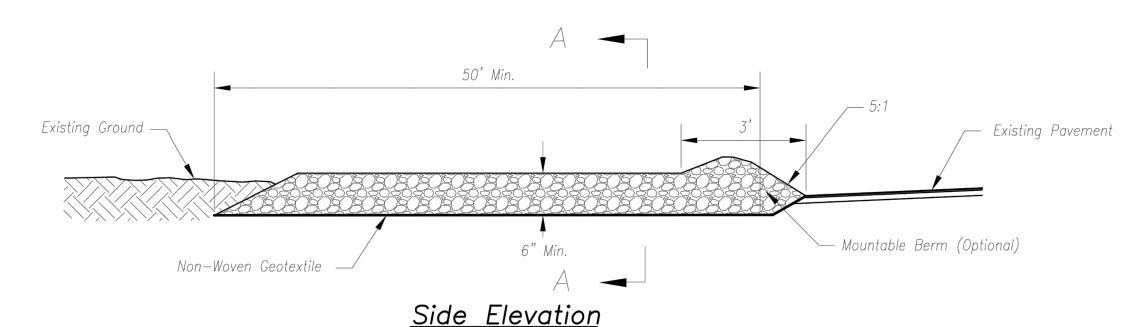
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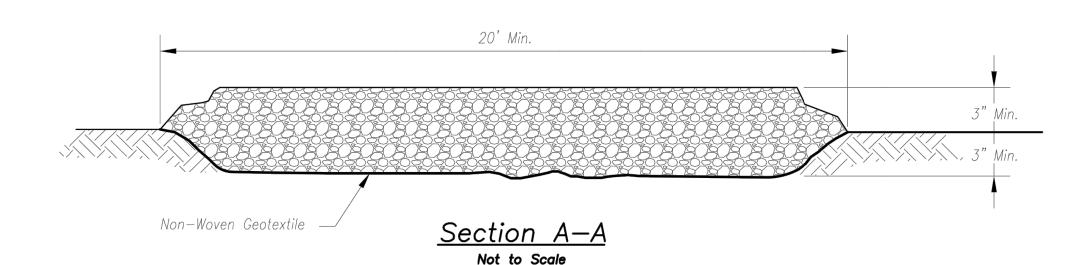
2/11/21

SHEET NUMBER

C303
4 of 12

# <u>Plan View</u>





Not to Scale

#### Notes for Construction Entrance:

- Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- 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 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- 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. Leave 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:

 Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate as needed.

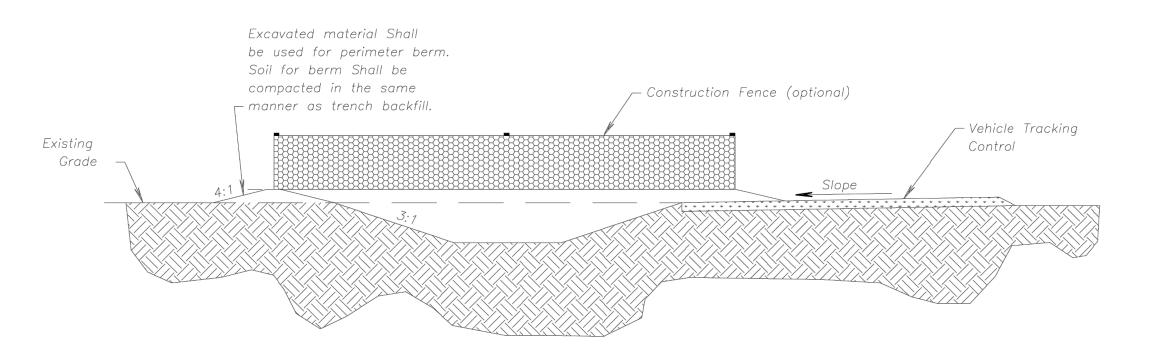
## CONSTRUCTION ENTRANCE

#### Notes for Concrete Washout:

- 1. Concrete washout areas shall be installed prior to any concrete placement on site.
- 2. Concrete washout area 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 pad shall be sloped towards the concrete washout area.
- 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 pump rigs.
- 5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

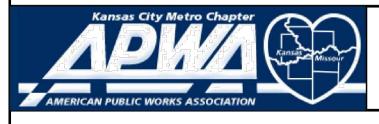
#### Maintenance for Concrete Washout:

- Concrete washout materials 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 wasted concrete.
- 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.
- 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 topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



#### CONCRETE WASHOUT

# AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

CONSTRUCTION ENTRANCE
AND CONCRETE WASHOUT

STANDARD DRAWING
NUMBER ESC-OI
ADOPTED:
10/24/2016

ANDERSON ENGINEERIP EMPLOYEE OWNED



	REVISIONS			DRAWING INFO.	G INFO.
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	9C
_	REVISED PER CITY COMMENT	29	2/11/21	GC 2/11/21 CHECK BY:	ZM
				LICENSE NO.	PE-2012009323
				DATE:	1/7/2021
				ISSUED FOR:	FOR REVIEW
				JOB NUMBER: 20KC10058	20KC10058
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CONSTRUCTION ENTRANC DETAILS

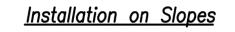


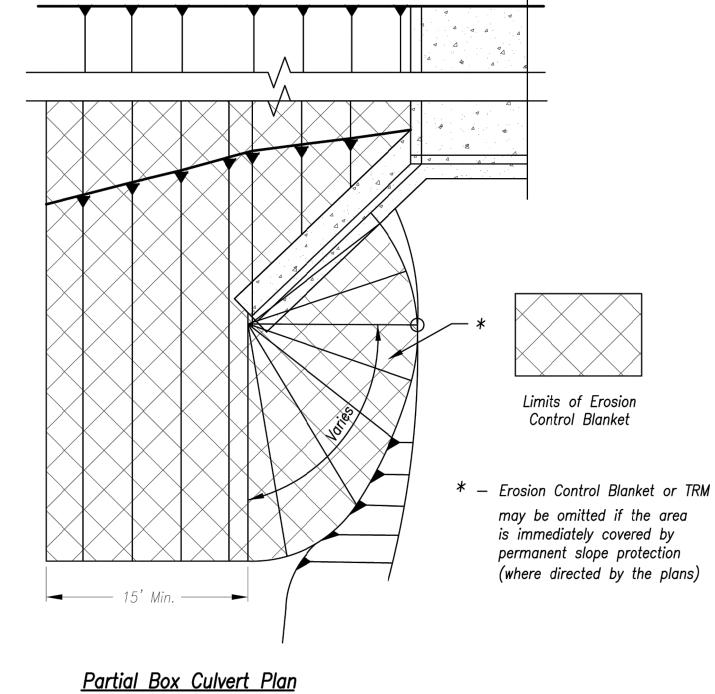
SHEET NUMBER

C501

5 of 12

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.



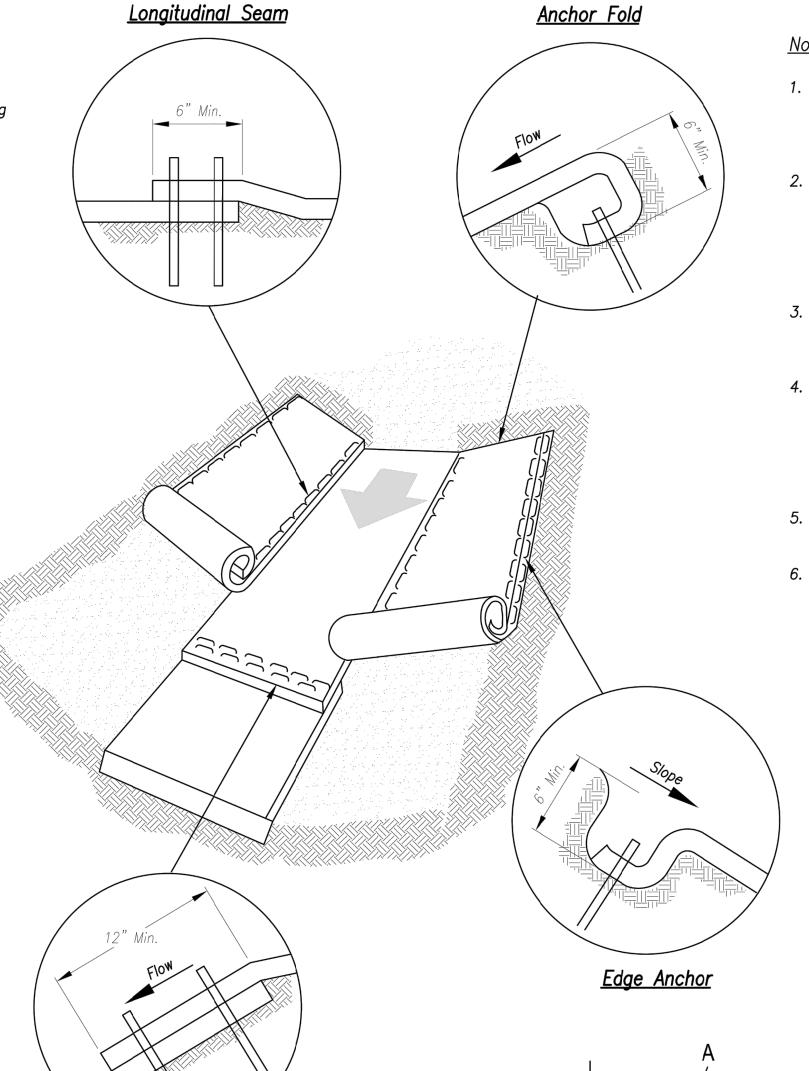


Not to Scale

<u>Installation Around Culvert Slope</u>

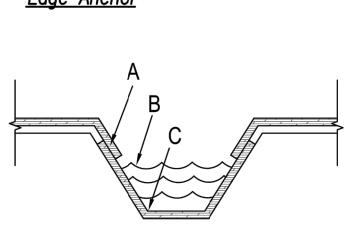
#### Notes for Installation on Slopes:

- 1. Erosion Control Blankets and TRMs shall be laid in the direction of the slope. In order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.
- 2. ANCHOR SLOTS: The top of the blanket should be "slotted in" at the top of the slope and anchored in place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and seeded.
- 3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 8 inches in direction of water flow. Stagger splice
- 4. TERMINAL FOLD: The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 9 inches apart.



Notes for Installation in Channels:

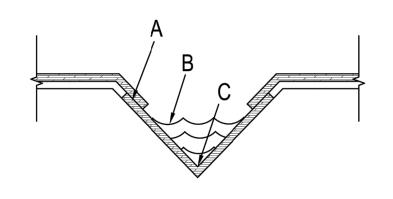
- 1. Erosion Control Blankets and TRMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.
- 2. ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
- 3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.
- 4. CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.
- 5. EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.
- 6. TERMINUS: The bottom edge of the mat shall be anchored.



Trapezoidal Channel

## **Critical Points:**

- A Overlaps and seams;
- B Projected water line;
- C Channel bottom / side slope vertices;



<u>V Channel</u>

<u>Installation in Channels</u>

Splice Seam



KANSAS CITY METRO CHAPTER

EROSION CONTROL BLANKETS

STANDARD DRAWING NUMBER ESC-02

10/24/2016

SHEET NUMBER 6 of 12

: PROTECTION AILS

SLOPE DETA

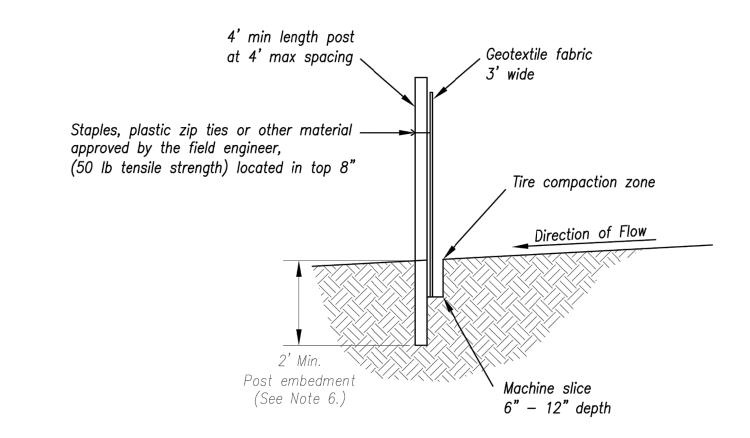
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AMERICAN PUBLIC WORKS ASSOCIATION

AND TURF REINFORMENT MATS ADOPTED:

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



(\*) <u>POSTS</u>

– MIN, LENGTH 4'

- HARDWOOD 1 ¾6" x 1 ¾6" - NO.2 SOUTHERN PINE 2 %" x 2 %"

– STEEL 1.33 LB/FT

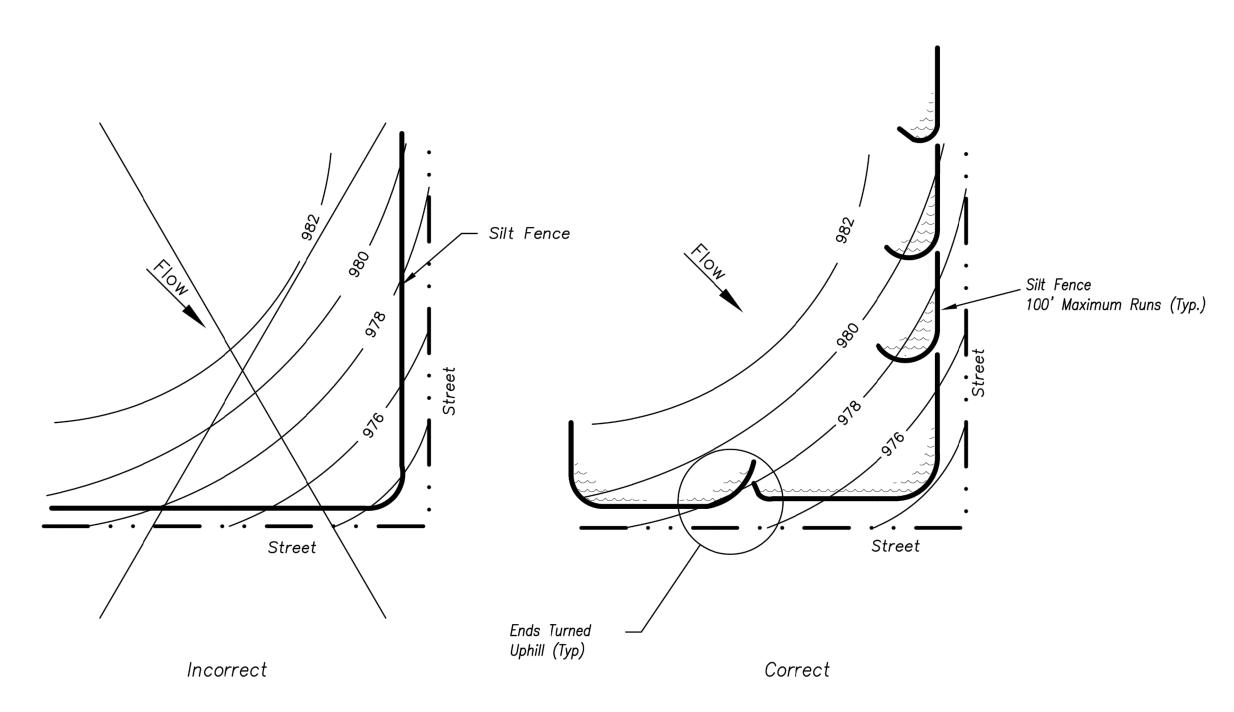
(\*\*) — Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS

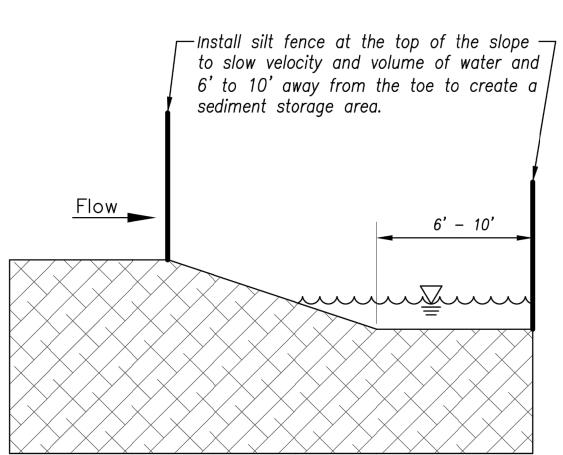
Not to Scale

SILT FENCE LAYOUT

Not to Scale



<u>Figure A</u>

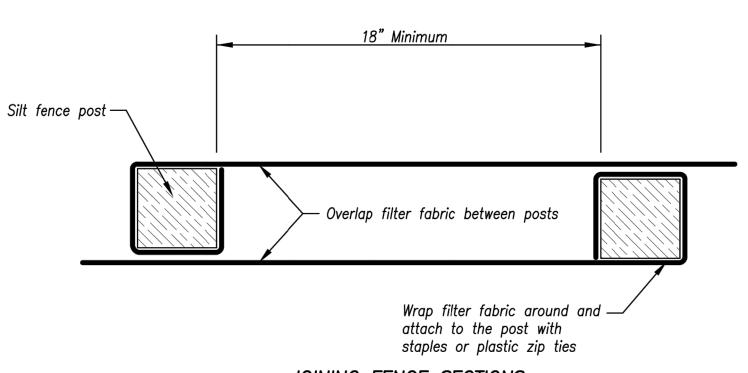


#### <u>Notes:</u>

- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- 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).
- 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.
- Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

#### <u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
- 2. Repair as necessary to maintain function and structure.



JOINING FENCE SECTIONS

Not to Scale

# AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

E STANDARD
NUMBER ES
ADOPTED:

SILT FENCE

STANDARD DRAWING
NUMBER ESC-03
ADOPTED:
10/24/2016

	REVISIONS			DRAWING INFO.	G INFO.
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	29
_	REVISED PER CITY COMMENT	CC	2/11/21	GC 2/11/21 CHECK BY:	ZM
				LICENSE NO.	PE-20120093
				DATE:	1/7/2021
				ISSUED FOR:	FOR REVIEW
				JOB NUMBER:	20KC10058
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SILT FENCE DETAILS

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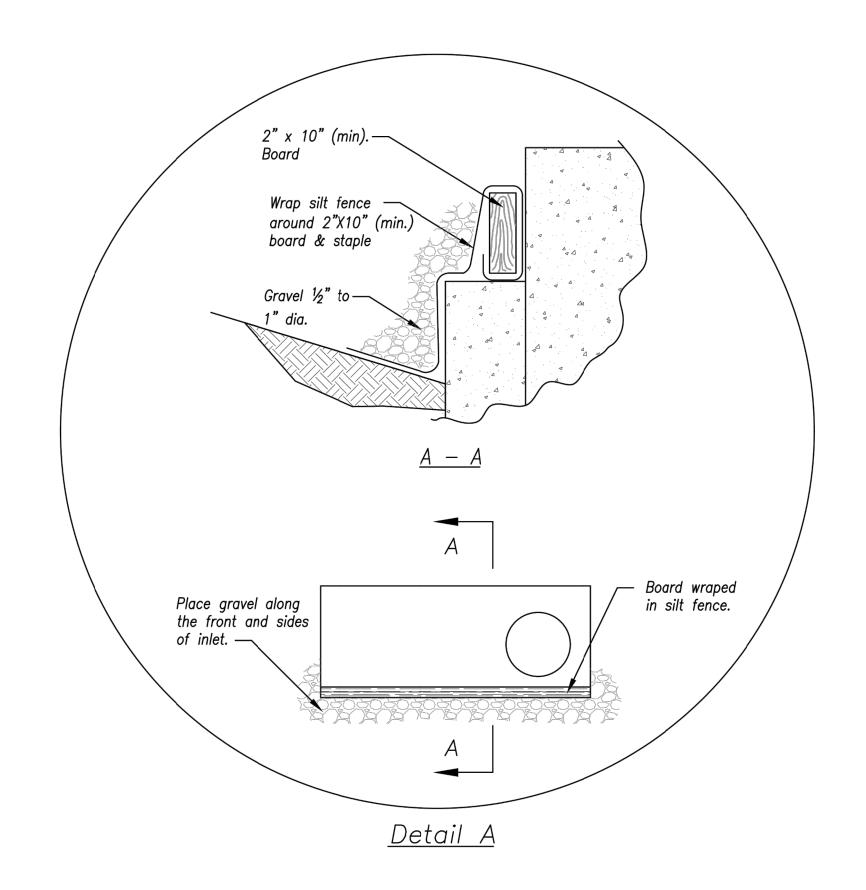
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C503
7 of 12

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



See Detail A below

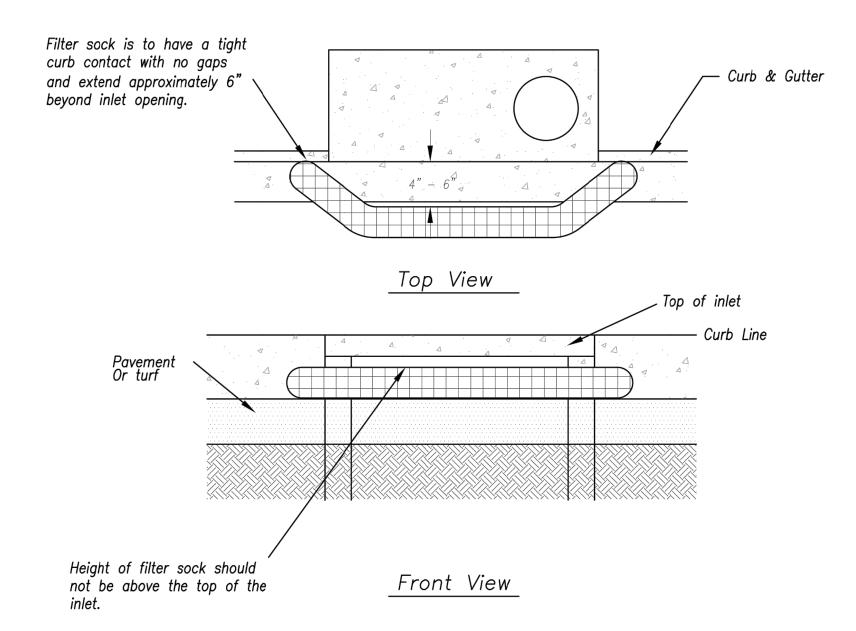
EARLY STAGE CURB INLET (Open Box and Prior to Pouring Curb and Inlet Throat)

#### <u>Notes:</u>

- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
- 2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
- Contractor to field verify ponding water shall not create a traffic hazard.

#### <u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- Repair or replace as necessary to maintain function and integrity of installation.



Sump Inlet Sediment Filter

LATE STAGE CURB INLET (After Pouring Curb and Inlet Throat)

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KANSAS CITY METRO CHAPTER

CURB INLET PROTECTION

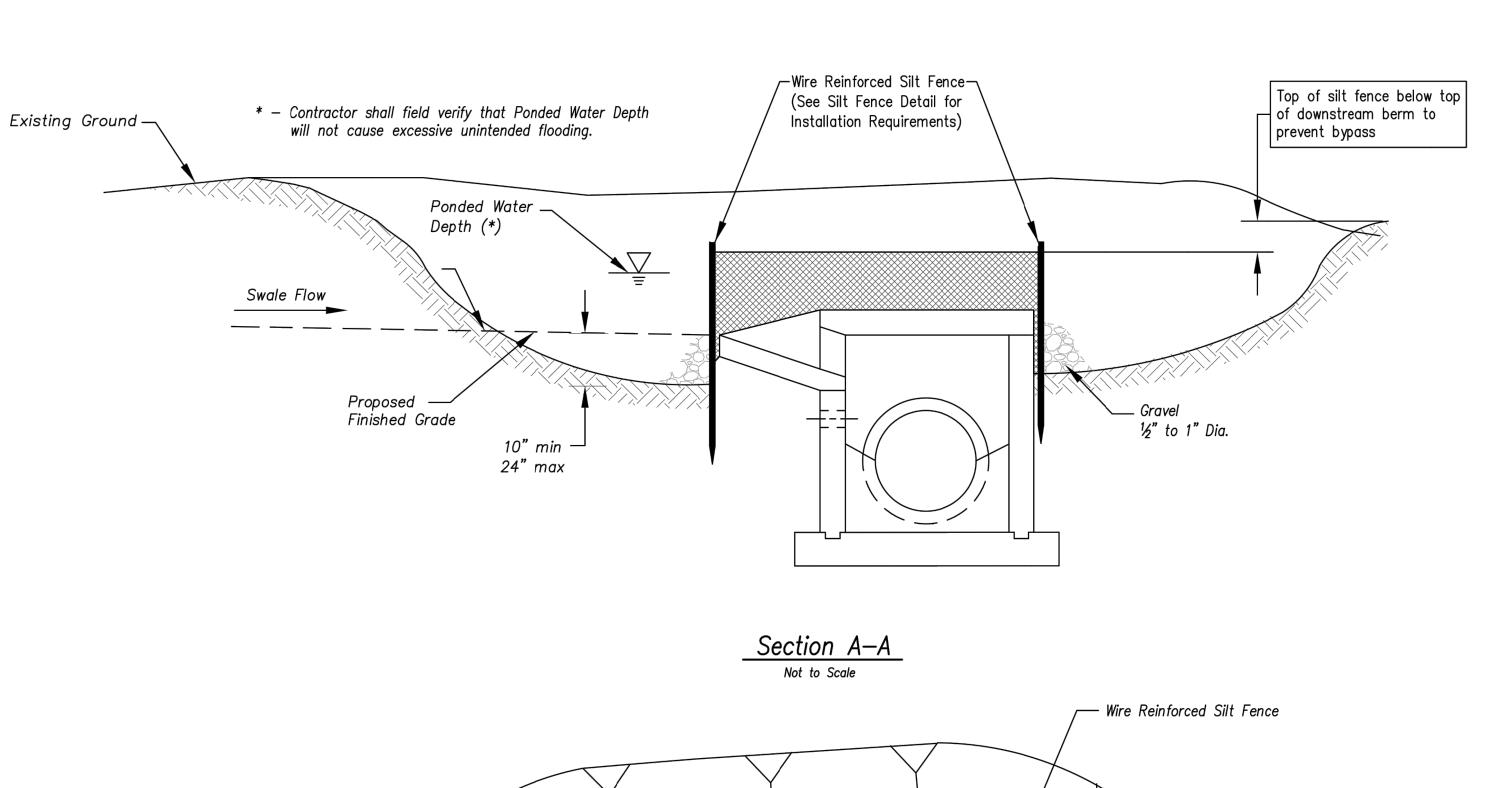
STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016

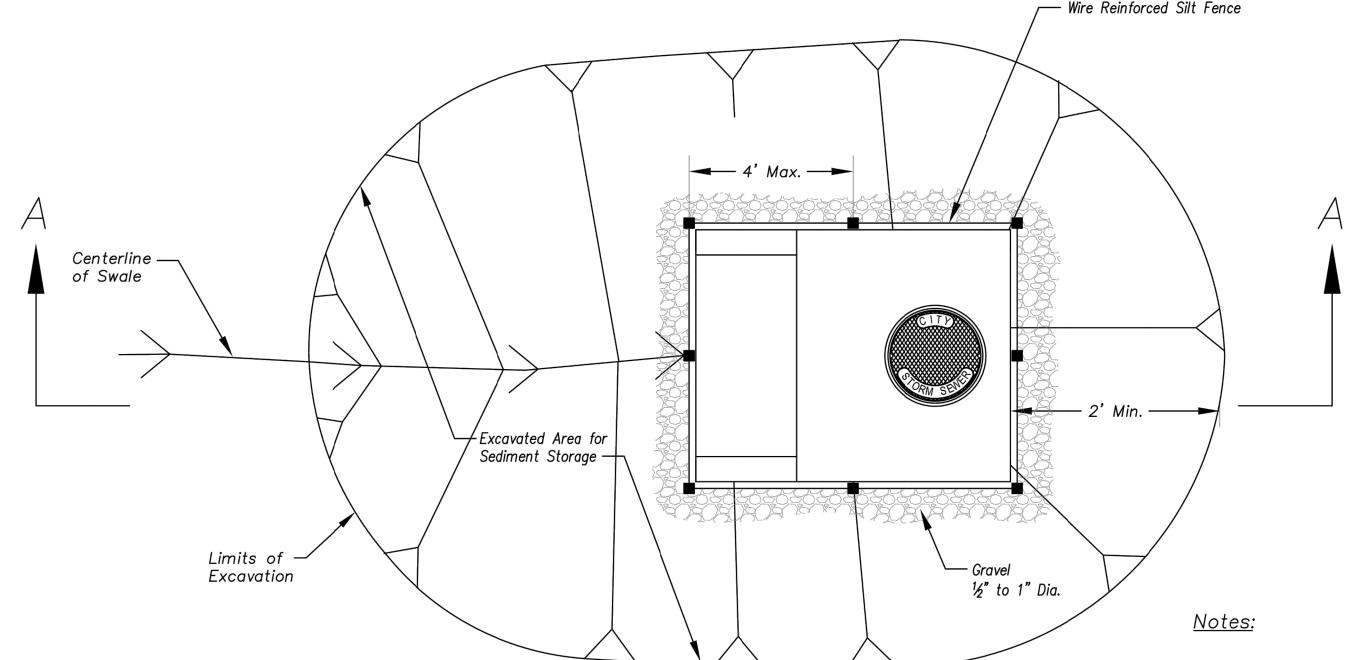
SHEET NUMBER

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

CURB INLET PROTECTION DETAILS

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EARLY STAGE AREA INLET (All open boxes and inlets not at final grade)

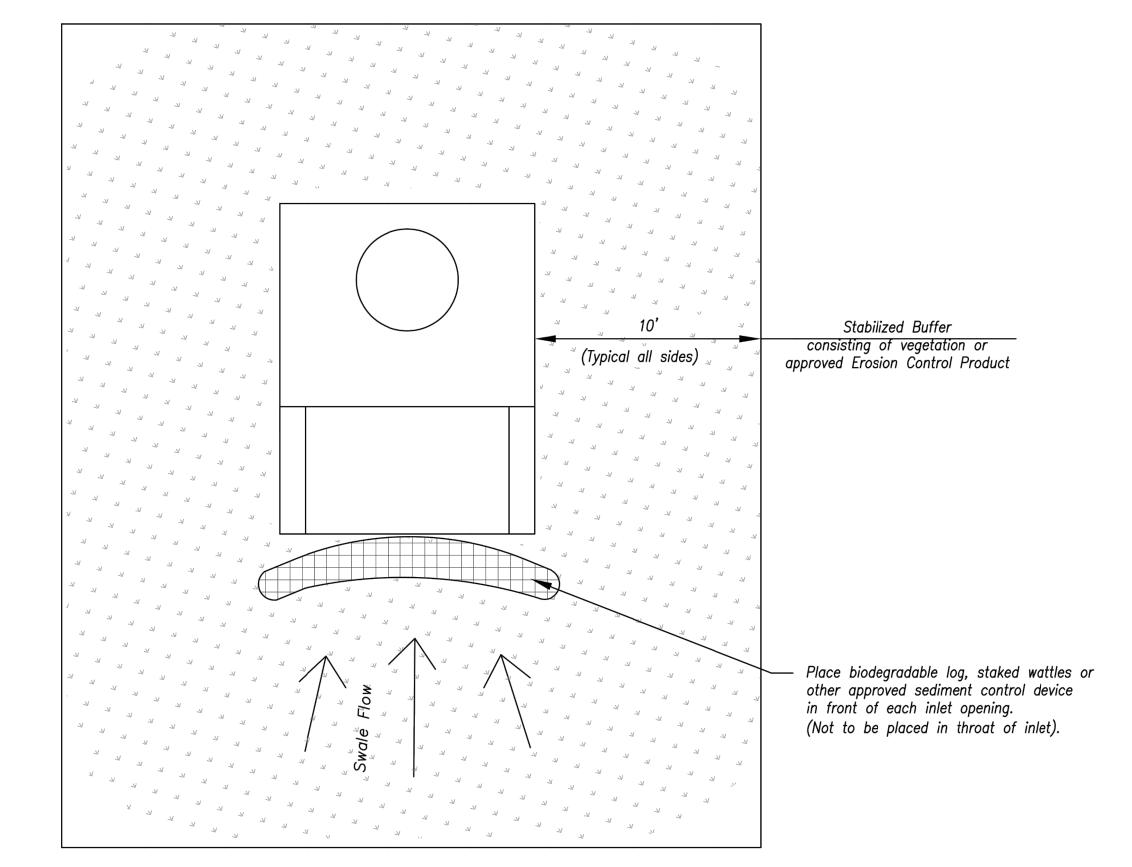
Not to Scale

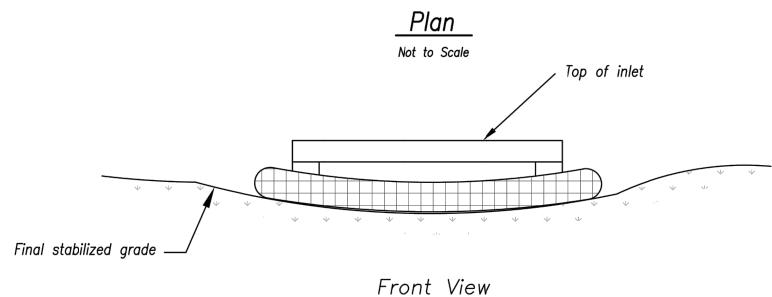
1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is

2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.

3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.

Wire reinforced silt fence may be used in place of silt fence attached to wood frame.



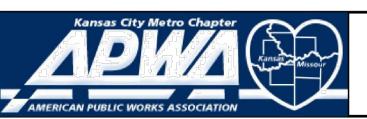


## LATE STAGE AREA INLET (Area inlets at final grade and existing inlets)

#### <u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- 3. Repair or replace as necessary to maintain function and integrity of installation.





KANSAS CITY METRO CHAPTER

AREA INLET AND JUNCTION BOX PROTECTION

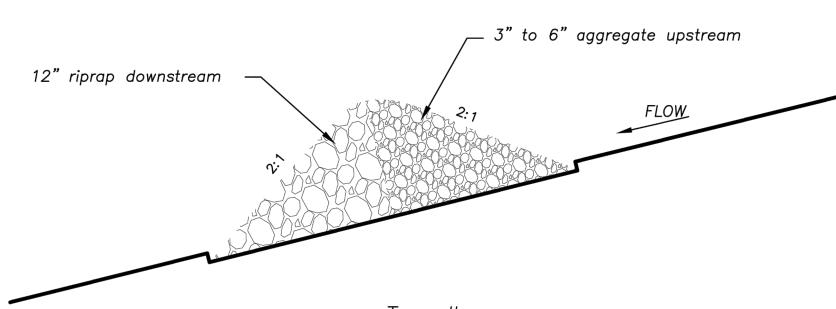
STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

AREA INLET PROTECTION DETAILS

SHEET NUMBER 9 of 12

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

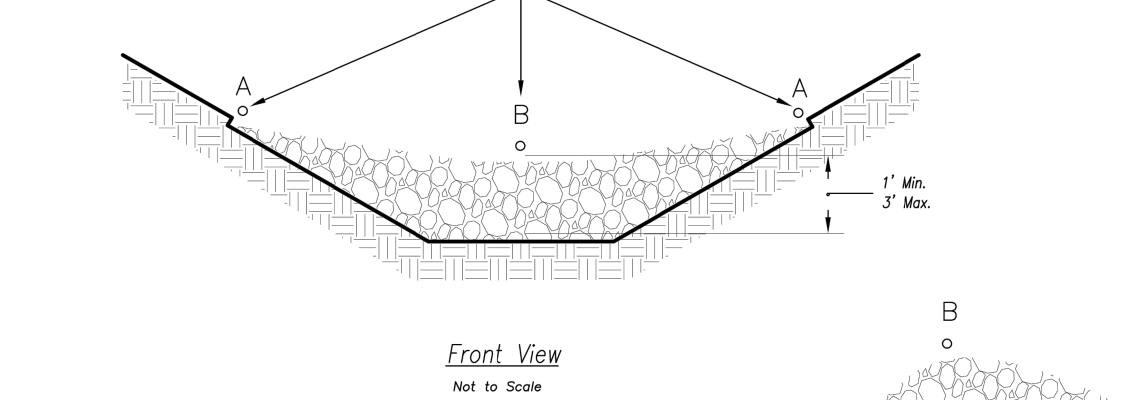
<u>Type</u> | (2 Acres or less of Drainage Area)



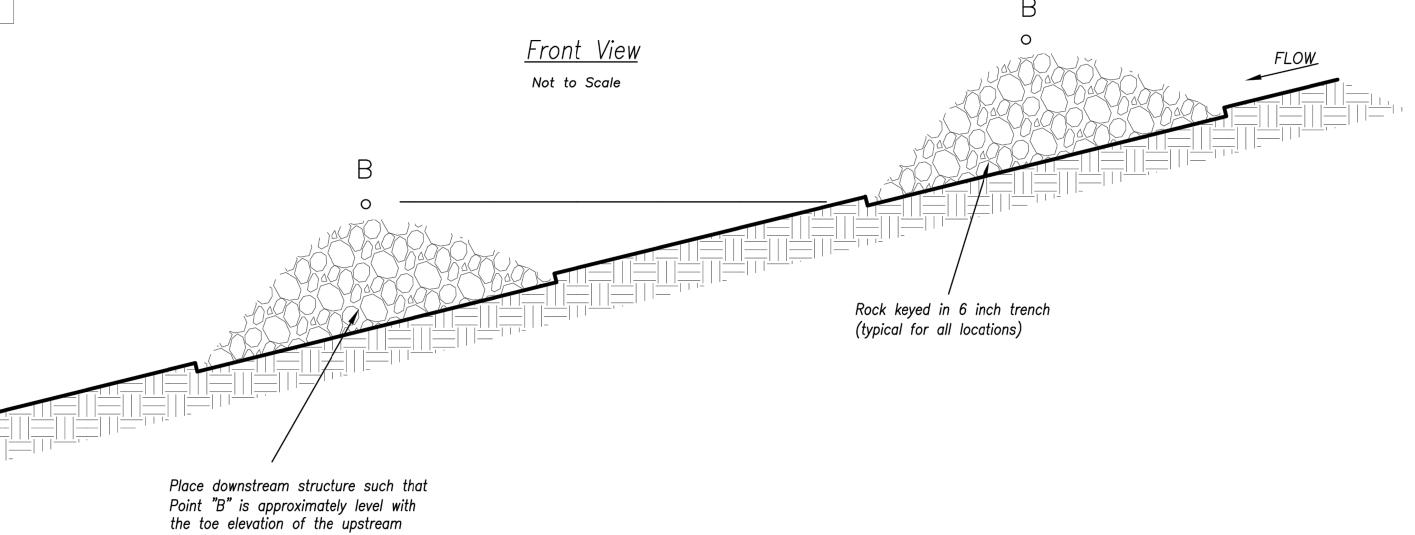
<u>Type II</u> (2–10 Acres of Drainage Area) Not to Scale

ROCK DITCH CHECK

<u>Temporary Roc</u> <u>Spa</u>	ck Ditch Check cing
Ditch Centerline Slope ( % )	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29
Note: Use this spo Rock Ditch	9



Elevation at end Points "A" must be minimum 6" higher than elevation of flow line at point "B"



Spacing Between Check Dams (all types)

Not to Scale

#### <u>Notes:</u>

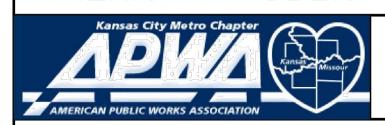
 Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer. structure

Use rock checks only in situations where the ditch slope exceeds 6%.

#### <u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
- 2. Replace and reshape as necessary to maintain function and integrity of installation.

# AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

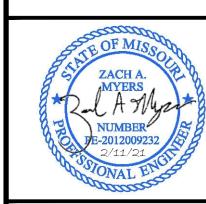
ROCK DITCH CHECKS

STANDARD DRAWING
NUMBER ESC-IO
ADOPTED:

R ESC-IO ED: IO/24/20I6 ENGINEERS SURVEYORS - LABORATORIES - DRILL

	REVISIONS			DRAWING INFO.	G INFO.
o N	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	29
_	REVISED PER CITY COMMENT	CC	2/11/21	GC 2/11/21 CHECK BY:	ZM
				LICENSE NO.	PE-201200932
				DATE:	1/7/2021
				ISSUED FOR:	FOR REVIEW
				JOB NUMBER:	20KC10058
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ROCK DITCH CHECK DETAILS



SHEET NUMBER

C506

10 of 12

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

#### TYPICAL PLAN VIEW OF DIVERSION BERM AND SLOPE DRAIN

#### 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 upslope 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.

#### <u>Maintenance:</u>

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

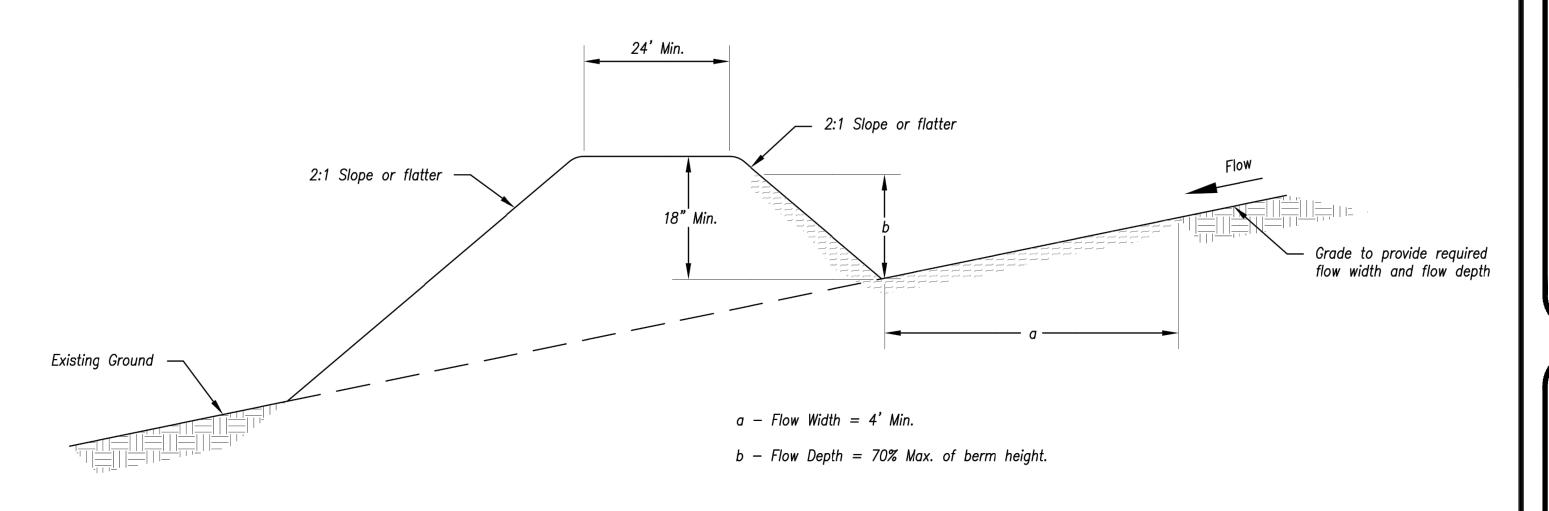
#### Notes for Slope Drain:

- 1. Slope Drain and Diversion Berm may be used on either project foreslopes or project backslopes.
- 2. Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
- 3. Pipe shall be secured in place as approved by Engineer.

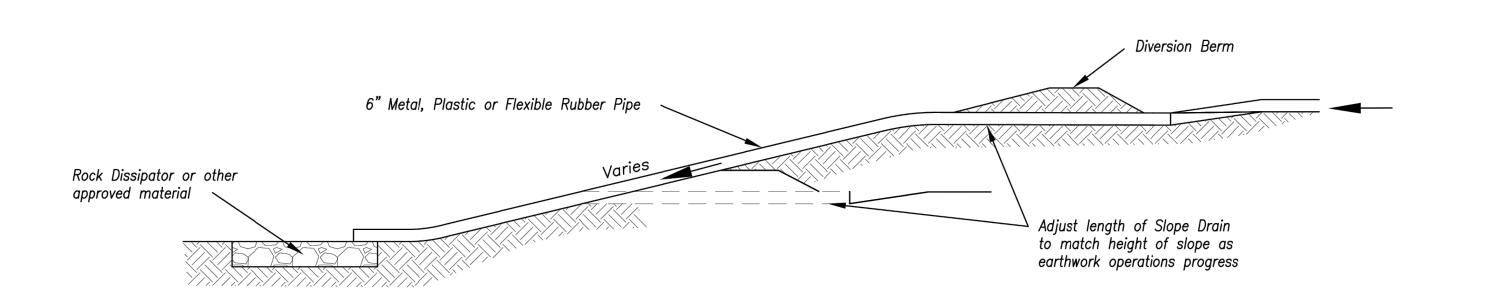
#### <u>Maintenance:</u>

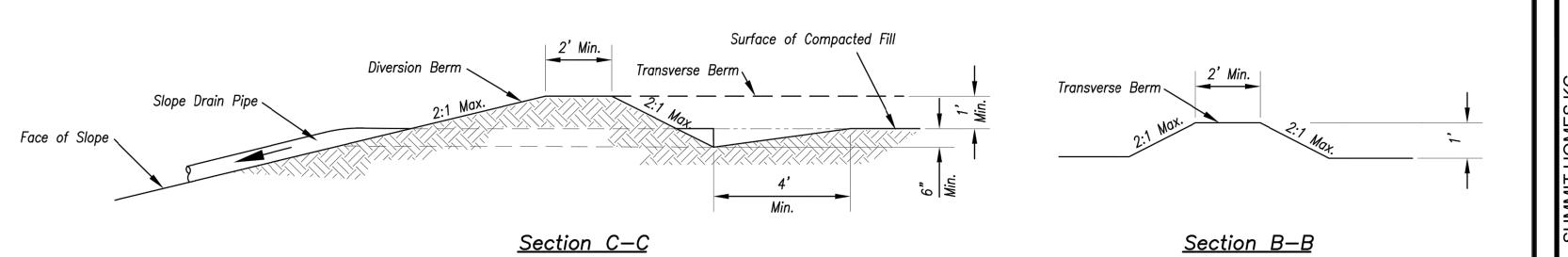
- 1. Accumulation of any visible sediment at the inlet and outlet shall be removed promptly.
- 2. Outlet conditions shall be repaired if scour is observed. Leaking or damaged section of pipe shall be repaired immediately.
- 3. Barriers directing water to the inlet shall be monitored for continuity and effectiveness.

# TYPICAL PROFILE OF DIVERSION BEAM Not to Scale



## TYPICAL PROFILE OF DIVERSION BERM





TYPICAL PROFILE OF DIVERSION BERM WITH SLOPE DRAIN

# AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

DIVERSION BERMS AND SLOPE DRAINS

NUMBER ESC-05 ADOPTED: 10/24/2016

STANDARD DRAWING

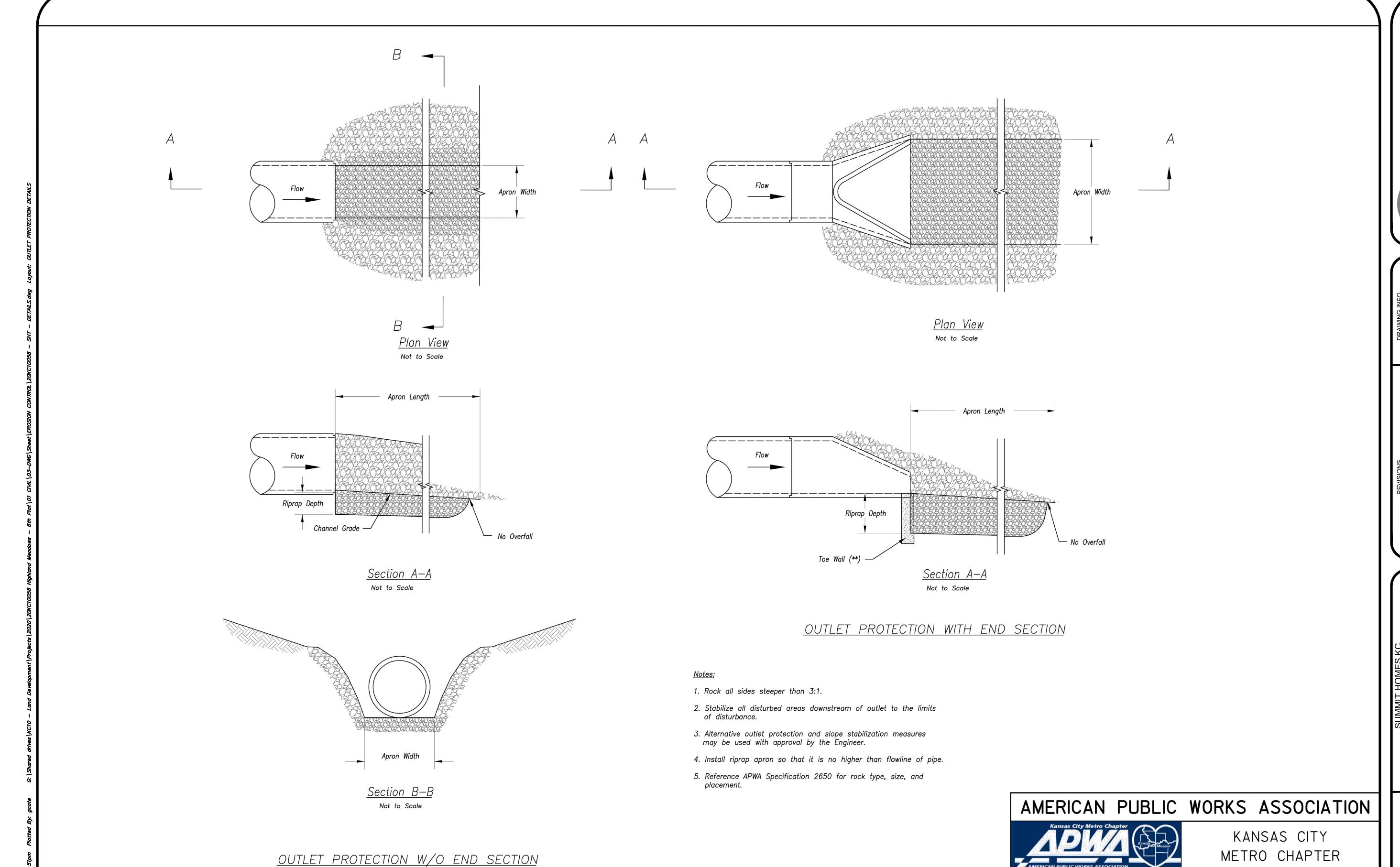
REVISIONS			DRAWIN	DRAWING INFO.
DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	90
SED PER CITY COMMENT	CC	2/11/21	GC 2/11/21 CHECK BY:	ZM
			LICENSE NO.	PE-2012009323
			DATE:	1/7/2021
			ISSUED FOR:	FOR REVIEW
			JOB NUMBER:	20KC10058
RIGHT ANDERSON ENGINEERING, INC. 2020	2020		MO COA NO.	000062

DET BERM DIVERSION



SHEET NUMBER 11 of 12

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



OUTLET PROTECTION

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

STANDARD DRAWING NUMBER ESC-14 ADOPTED:

10/24/2016

**PROTECTION** 

DET

SHEET NUMBER