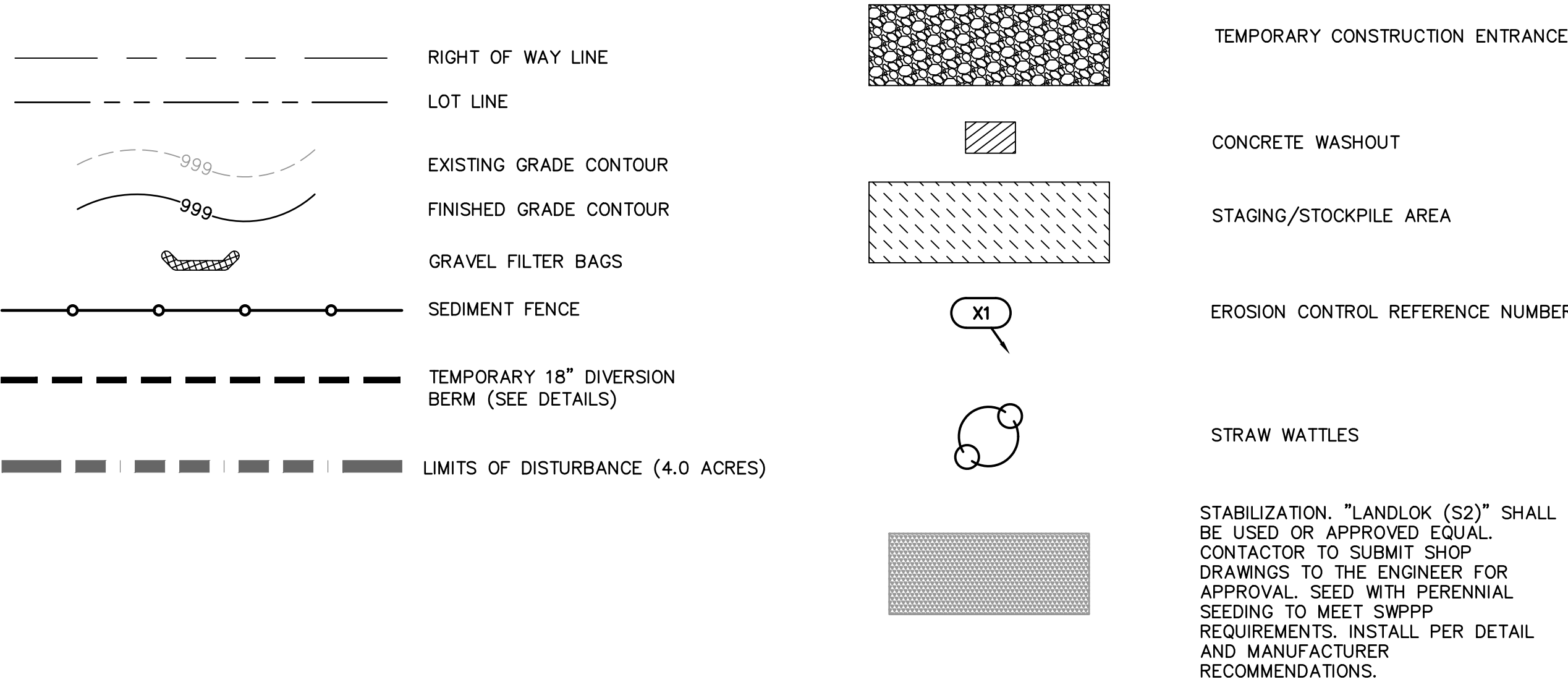


LEGEND



EROSION CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOV E 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	PERMANENT SWALE	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.

Sediment Basin Design Calculations

Trap 1 - Colbern Road
OA# G17-0585

Design Flows:

Tributary Drainage Area to Pond: 4.00 Acres
Disturbed Tributary Drainage Area to Pond: 4.00 Acres

Drainage Area

Drainage Basin Area	Total Area	C	KC	Tc	Intensity	Design Q
	(acre)		(K=1.0)	(min)	(in/hr)	(cfs)
Basin #1	4.00	0.35	0.35	5.00	5.41	7.58
Basin #1-Disturbed Area	4.00	0.35	0.35	5.00	5.41	7.58

Drainage Area

Drainage Basin Area	Total Area	C	KC	Tc	Intensity	Design Q
	(acre)		(K=1.1)	(min)	(in/hr)	(cfs)
Basin #1	4.00	0.35	0.39	5.00	8.53	13.16
Basin #1-Disturbed Area	4.00	0.35	0.39	5.00	8.53	13.16

Sediment Basin Storage:

Minimum Sediment Storage = 4 Acre x 67 CY/Acre = 268 CY

Pond

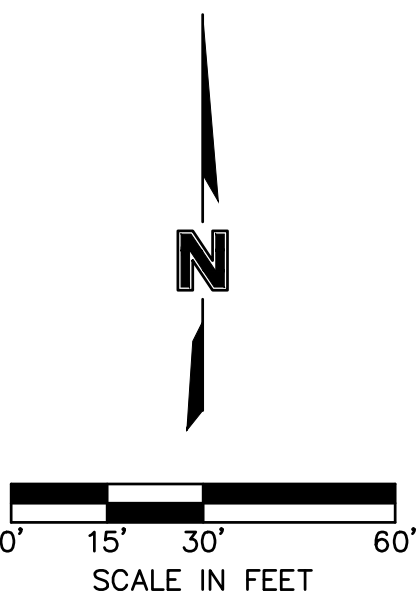
Basin	Elevation	Area (Sq. Ft.)	Volume (Cu. Yd.)	Cummulative Volume (Cu. Yd.)
Basin Volume #1	960.50	0		
	961.00	1100	10	10
	962.00	3500	85	95
	963.00	6700	189	284
	964.00	9000	291	575

Overflow Elevation:

Spillway Length = 6 x Tributary area in acres (Ft) = 24
= 4.00 x 6 = 24

Ho=18"
Use 10" Rip Rap

Spillway Elevation = 964.03



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DESIGN
ARCHITECTS

3750 S. Fremont Ave.
Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

helix.

1629 Walnut
Kansas City, MO 64108 816.300.0300

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CONSTRUCTION DOCUMENTS FOR
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1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE
10

Engineer of Record

ISSUE FOR
CONSTRUCTION
02.05.20

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

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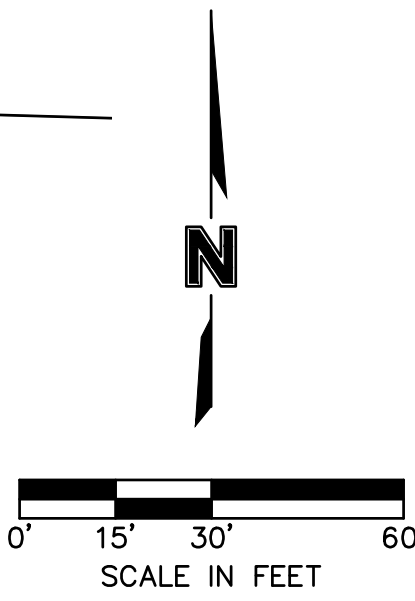
Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.

C9.0
EROSION CONTROL PLAN
- PRE CONSTRUCTION

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EROSION CONTROL STAGING CHART				
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	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 PADDS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER – CURB INLET – CONDITION A	C	INSTALL AS INDICATED ON PLANS
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	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOCK 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
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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.

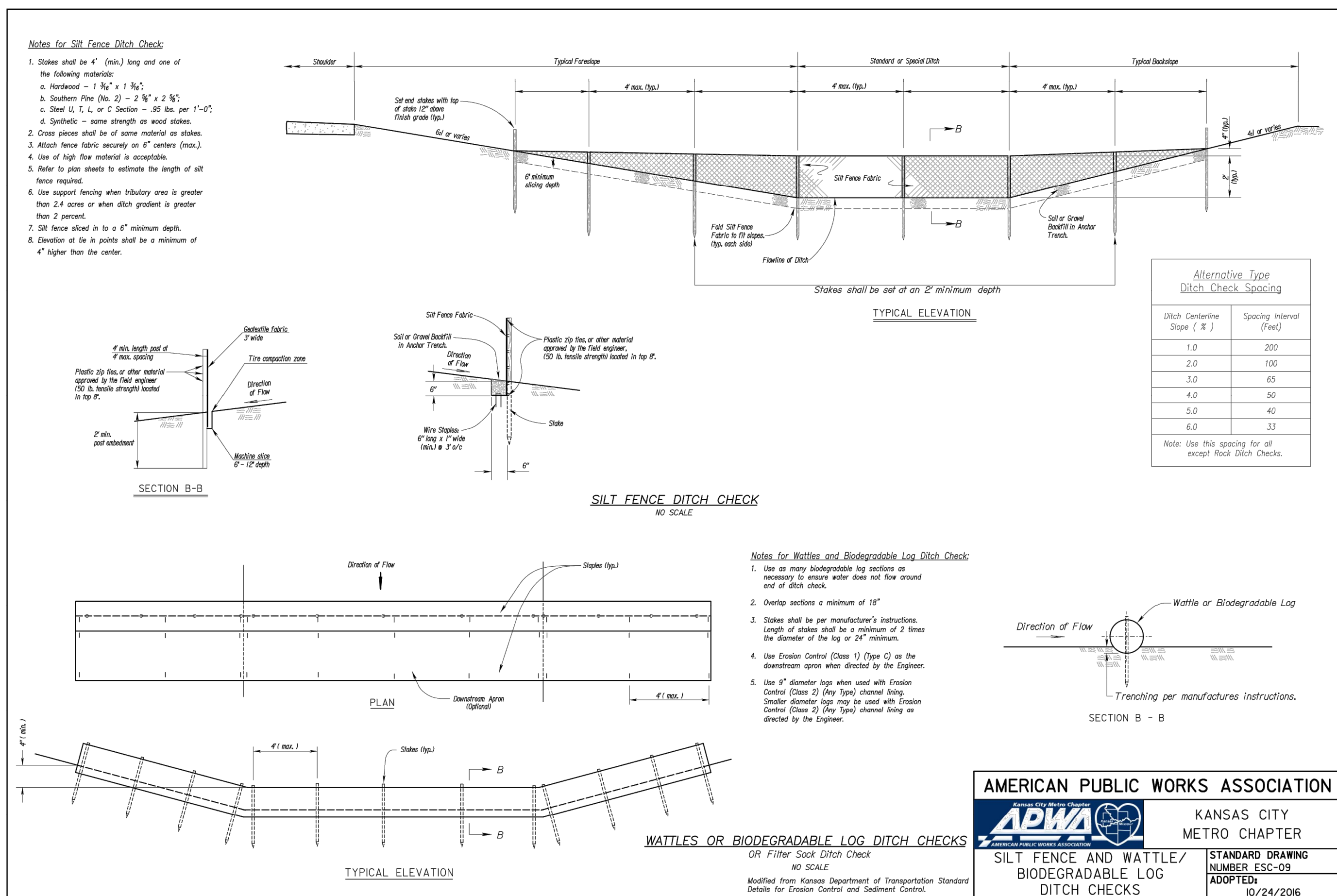
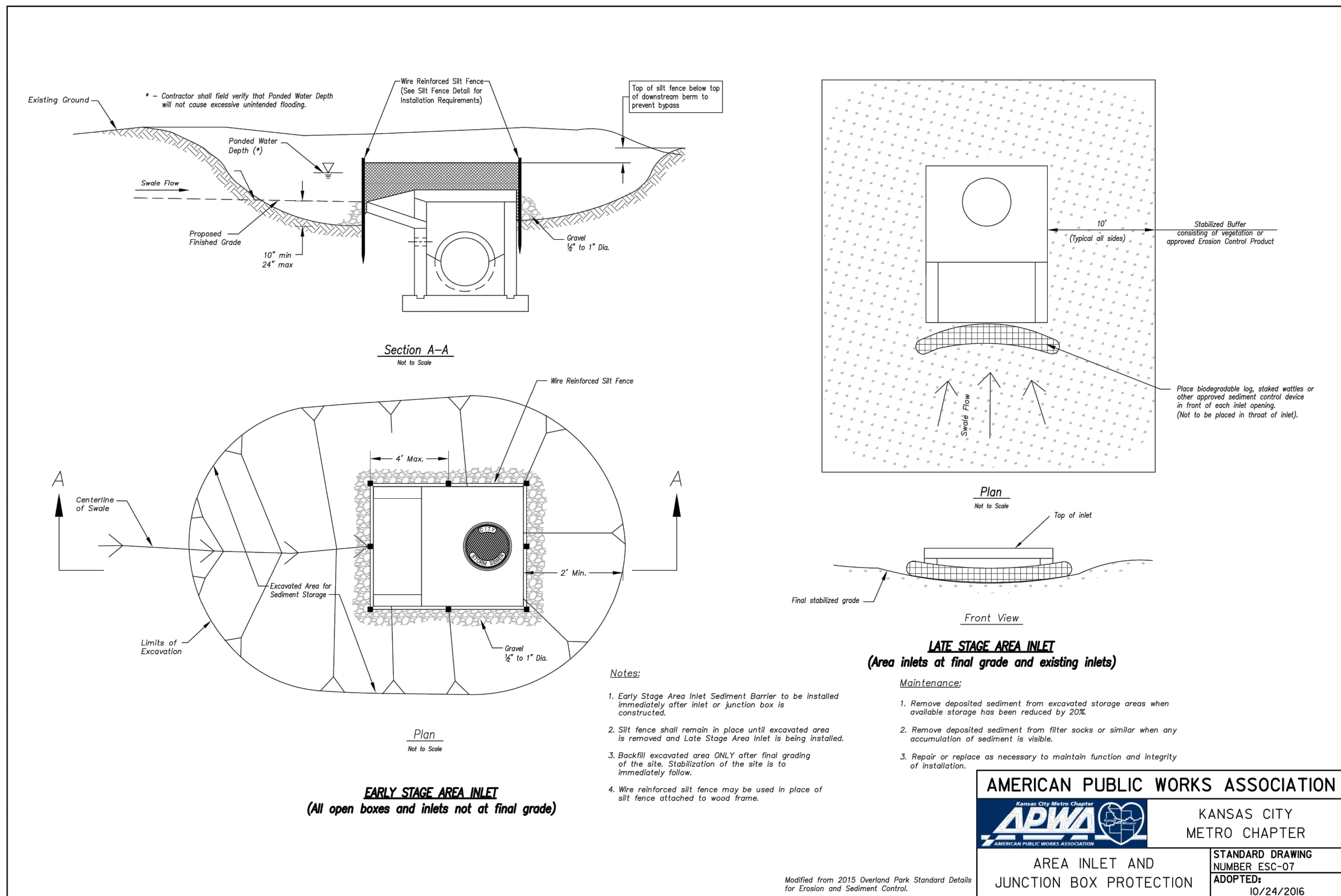
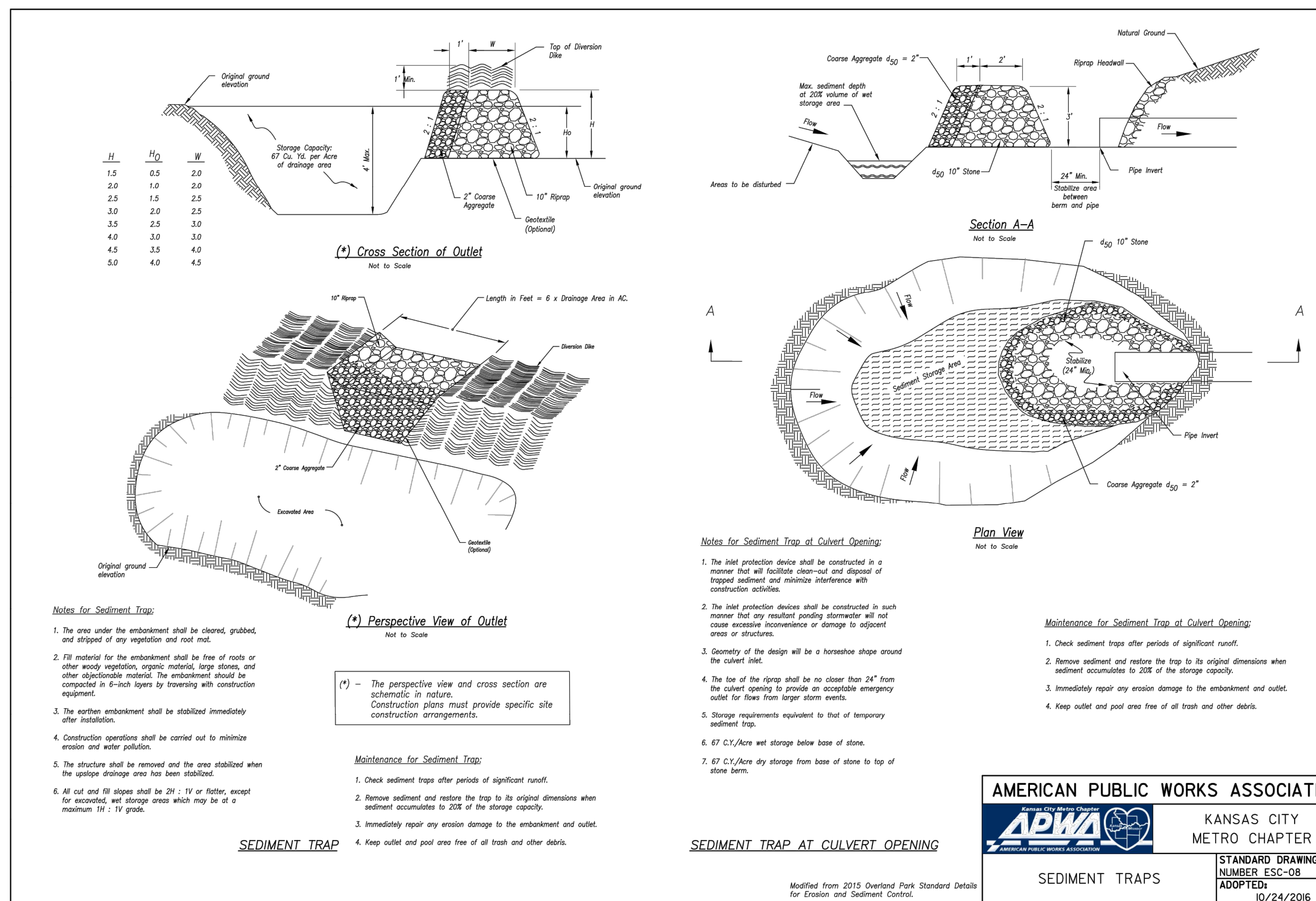
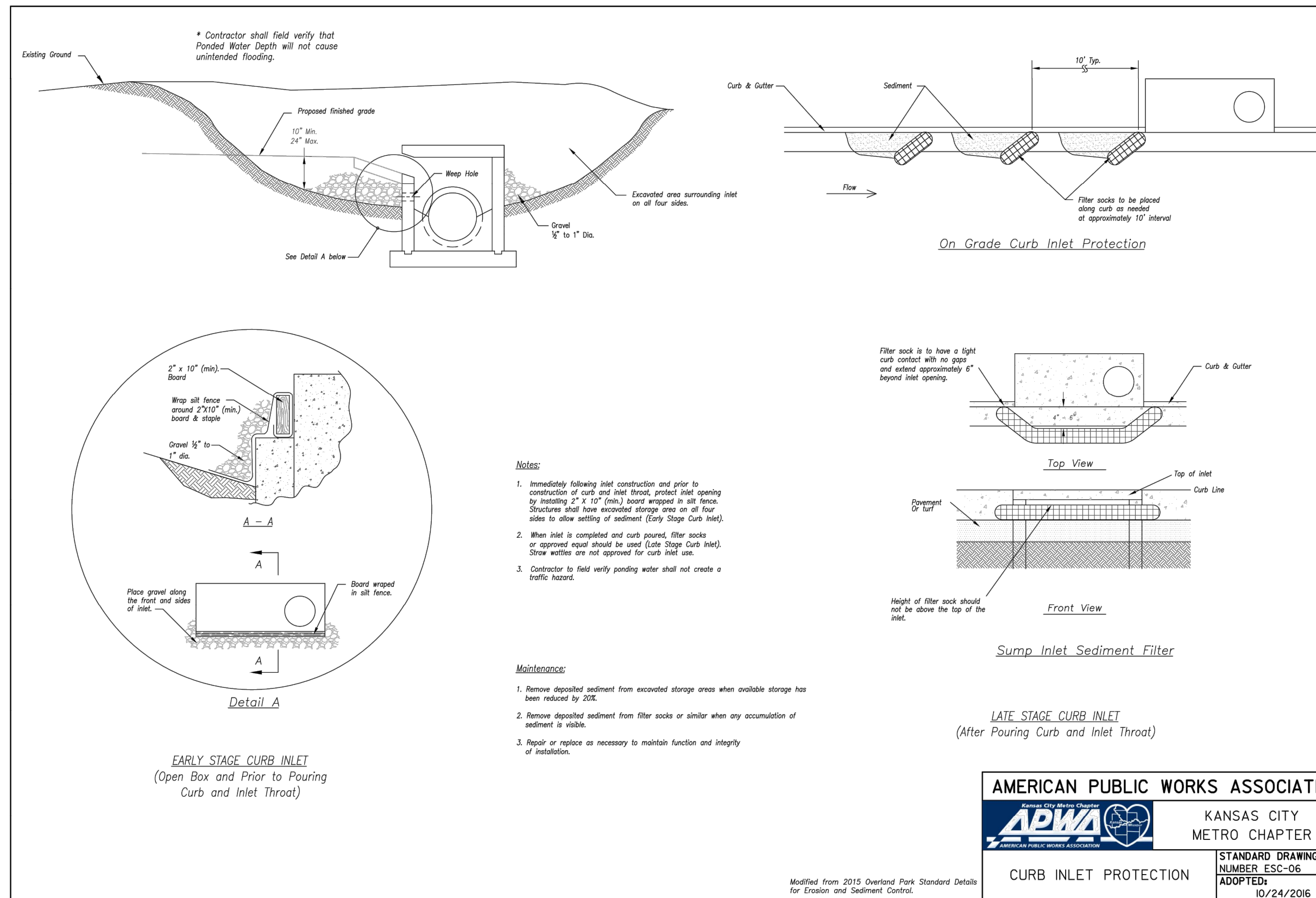
<h1 style="margin: 0;">SAPP DESIGN ARCHITECTS</h1> <p style="margin: 5px 0;">3750 S. Fremont Ave. Springfield, MO 65804 417.877.9600</p>		
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Mid-Continent Public Library CONSTRUCTION DOCUMENTS FOR </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> COLBERN ROAD BRANCH </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1000 N.E. COLBERN ROAD LEE'S SUMMIT, MO 64086 JACKSON COUNTY </div> </div> <div style="margin-top: 20px; text-align: center;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> PACKAGE 10 </div> </div>		
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ISSUE FOR CONSTRUCTION 02.05.20		
Terry M Parsons, Engineer MO PE-2018010505		
7301 West 133rd Street, Suite 200 Overland Park, KS 66213 TEL 913.381.1170 FAX 913.381.1174 www.olsson.com		
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Revision No.	Description	Date
1 CITY COMMENTS	CITY COMMENTS	03.19.20
2 CITY COMMENTS	CITY COMMENTS	04.08.20
Project No. B18-0330	Date 02.05.20	Drawn RLK
Drawing No.		
<h2 style="margin: 0;">C9.1</h2> <p style="margin: 0;">EROSION CONTROL PLAN - CONSTRUCTION</p> <p style="margin: 0; font-size: 0.8em;">© Copyright 2018 - Sapp Design Associates, Architects, P.C.</p>		

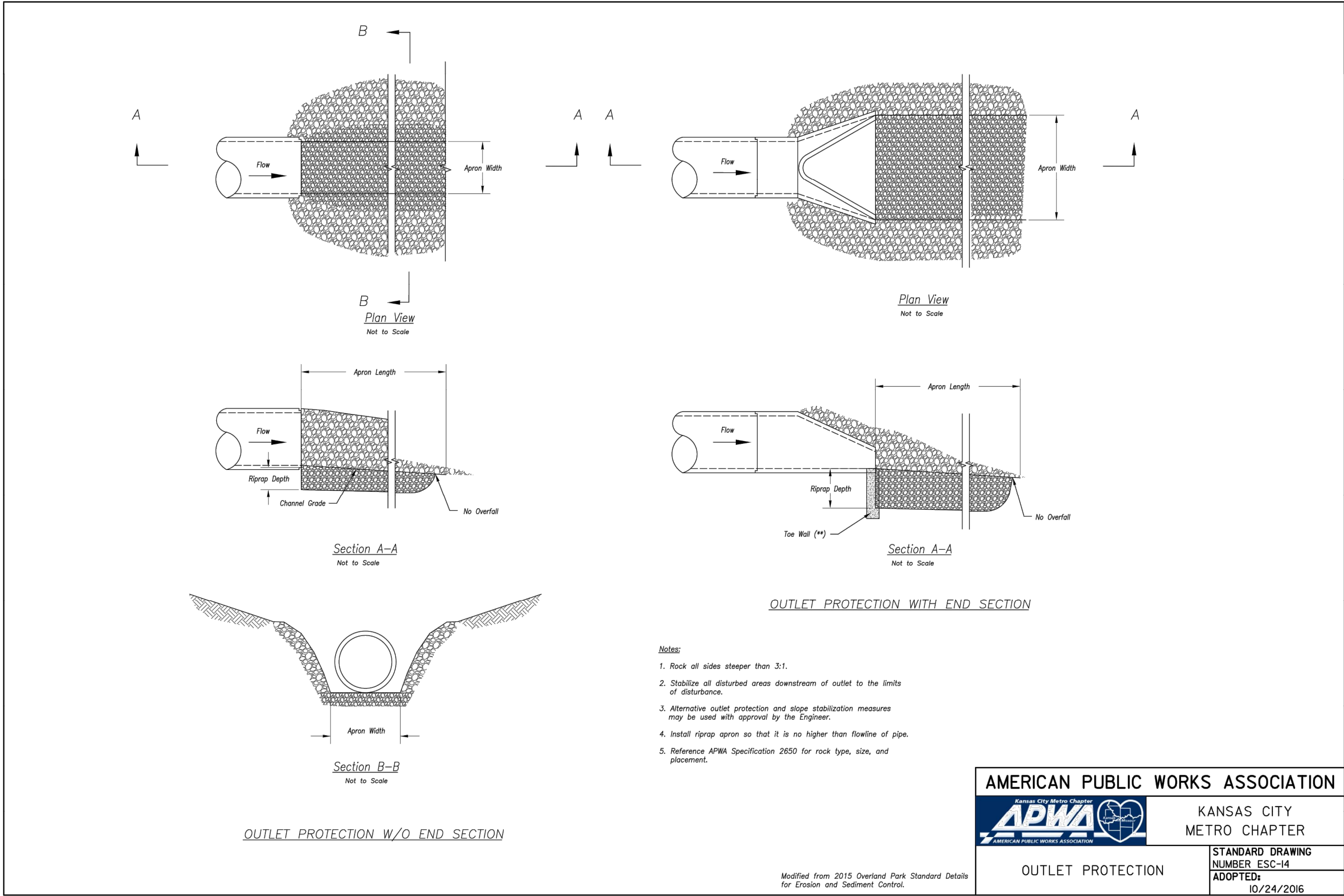
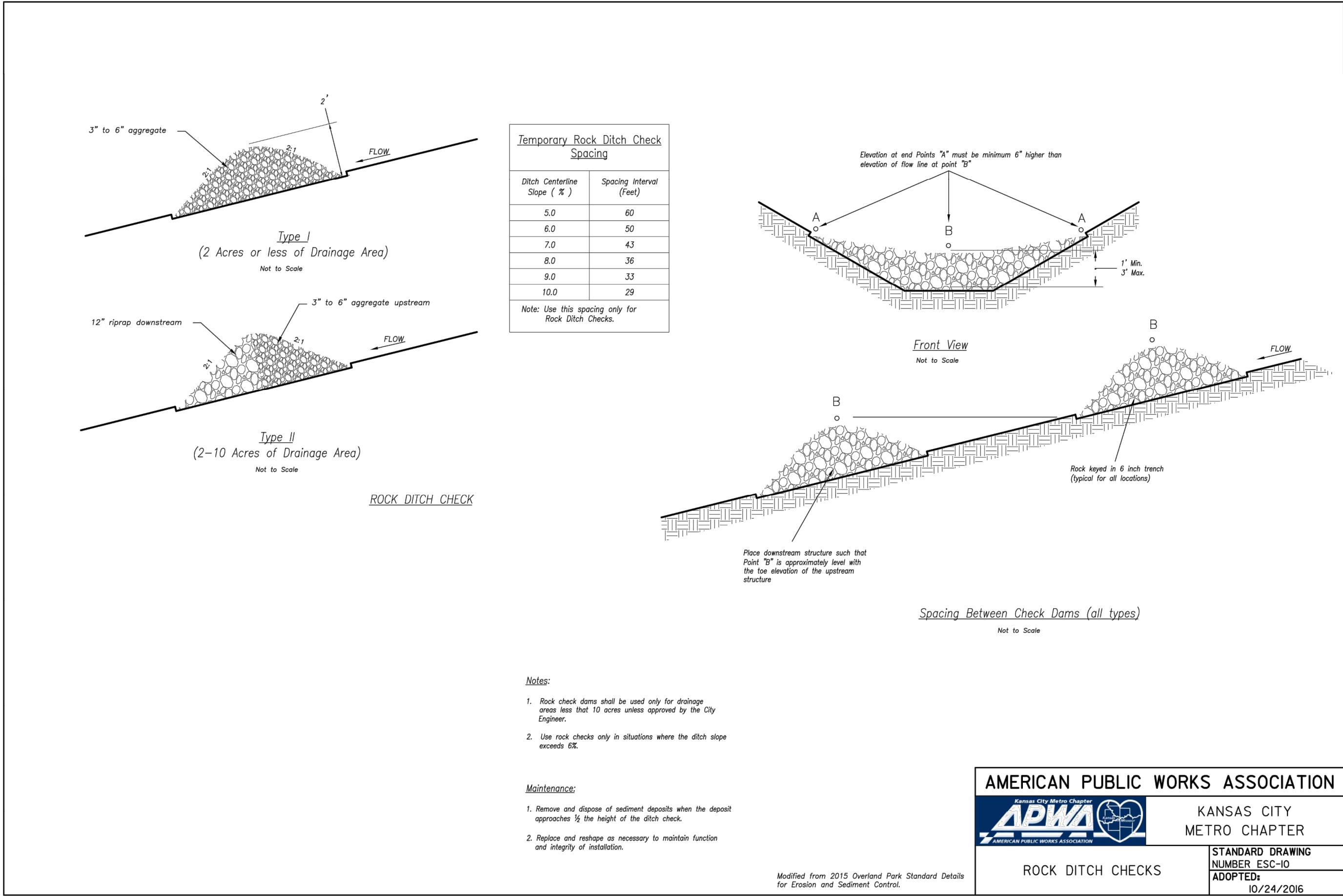


LEGEND

EROSION CONTROL STAGING CHART







SAPP
DESIGN
ARCHITECTS

3750 S. Fremont Ave.
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helix.

1629 Walnut
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olsson

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Drawing No.
C9.5
EROSION CONTROL
DETAILS

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