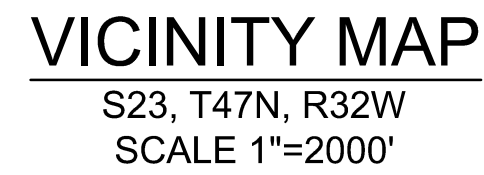
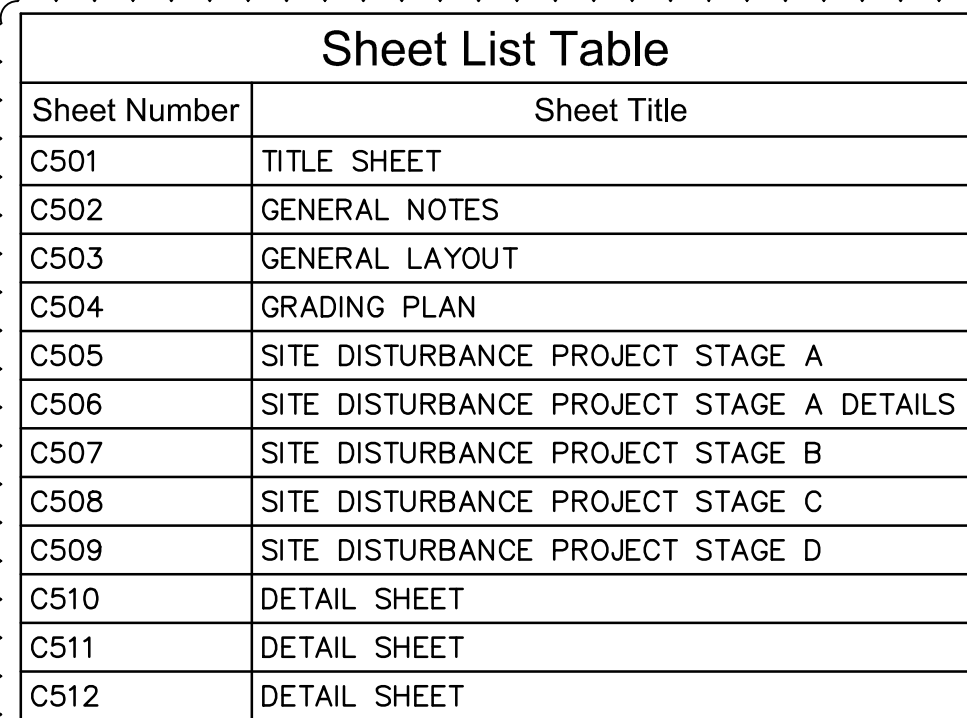


SECTION 23, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
DISTURBED AREA = 23.62 AC



☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION



NO OIL OR GAS WELLS ARE LOCATED WITHIN PROJECT LIMITS.
INFORMATION OBTAINED FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES,
GEOLOGICAL SURVEY GEOSCIENCES TECHNICAL RESOURCE ASSESSMENT TOOL (GEOSTRAT).

PORIONS OF THE SITE ARE LOCATED WITHIN ZONE AE "BASE FLOOD ELEVATIONS DETERMINED", ZONE X (SHADED) "AREAS OF 0.2% CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD, AND ZONE X (UNSHADED) "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 290905C053IG, REVISION DATE JANUARY 20, 2017.

DATE _____

6/15/20

DATE





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DATE: Jun 15, 2020 8:38am XREFS: C:\PTBLK_0194061_34x22 C_PBN DY_0194061 C_PBASE_0194061 C_PUTIL_0194061 C_FBASE_0194061

GENERAL NOTES:

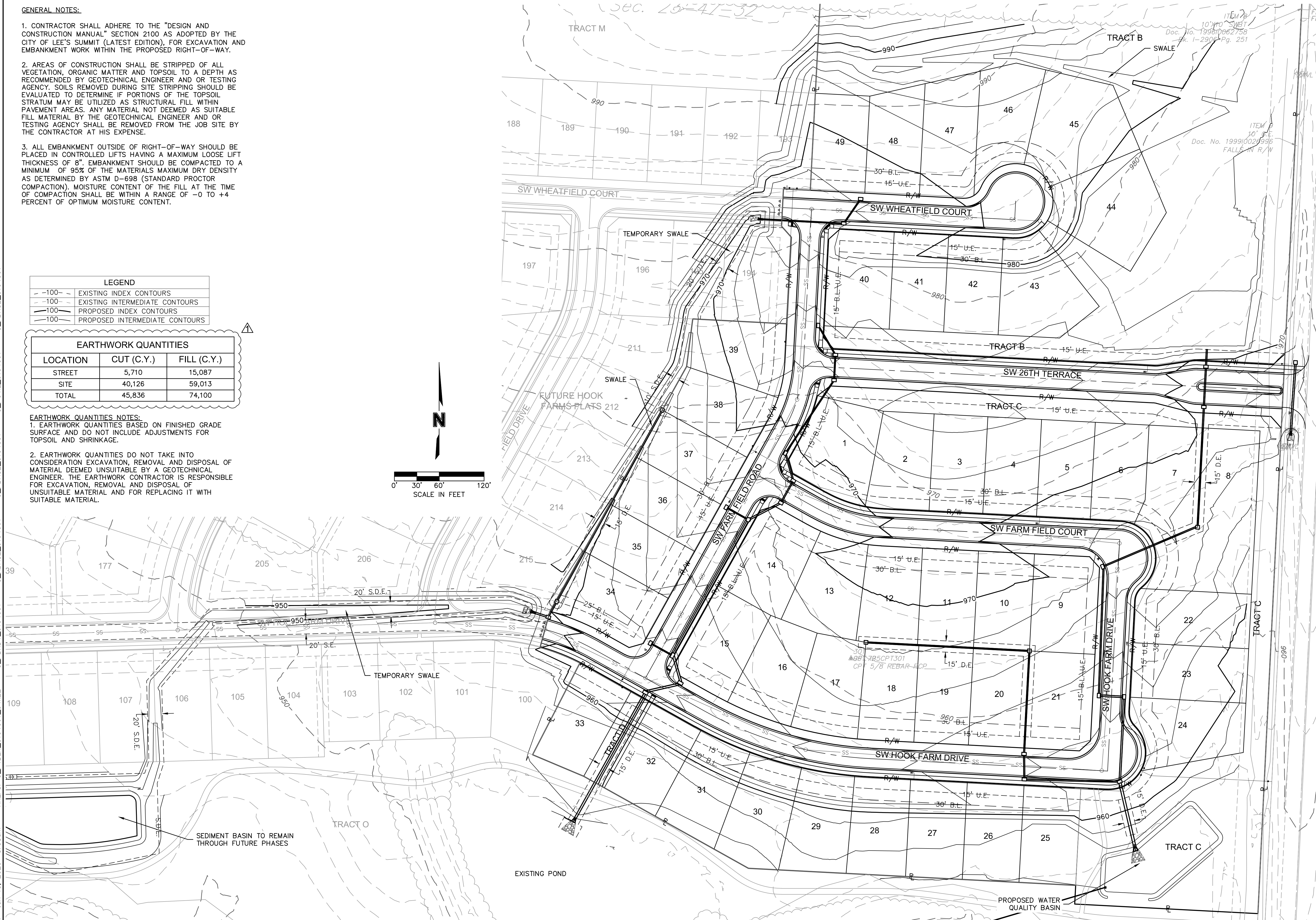
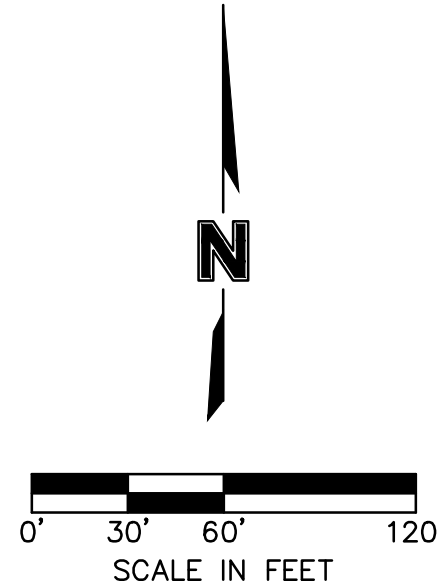
1. CONTRACTOR SHALL ADHERE TO THE "DESIGN AND CONSTRUCTION MANUAL" SECTION 2100 AS ADOPTED BY THE CITY OF LEE'S SUMMIT (LATEST EDITION), FOR EXCAVATION AND EMBANKMENT WORK WITHIN THE PROPOSED RIGHT-OF-WAY.
2. AREAS OF CONSTRUCTION SHALL BE STRIPPED OF ALL VEGETATION, ORGANIC MATTER AND TOPSOIL TO A DEPTH AS RECOMMENDED BY GEOTECHNICAL ENGINEER AND OR TESTING AGENCY. SOILS REMOVED DURING STRIPPING SHOULD BE EVALUATED TO DETERMINE IF PORTIONS OF THE TOPSOIL STRATUM MAY BE UTILIZED AS STRUCTURAL FILL WITHIN PAVEMENT AREAS. ANY MATERIAL NOT DEEMED AS SUITABLE FILL MATERIAL BY THE GEOTECHNICAL ENGINEER AND OR TESTING AGENCY SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR AT HIS EXPENSE.
3. ALL EMBANKMENT OUTSIDE OF RIGHT-OF-WAY SHOULD BE PLACED IN CONTROLLED LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 8". EMBANKMENT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR COMPACTION). MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN A RANGE OF -0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT.

LEGEND	
	EXISTING INDEX CONTOURS
	EXISTING INTERMEDIATE CONTOURS
	PROPOSED INDEX CONTOURS
	PROPOSED INTERMEDIATE CONTOURS

EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	5,710	15,087
SITE	40,126	59,013
TOTAL	45,836	74,100

EARTHWORK QUANTITIES NOTES:

1. EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
2. EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIALS DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.



GRADING PLAN SITE DISTURBANCE PLANS

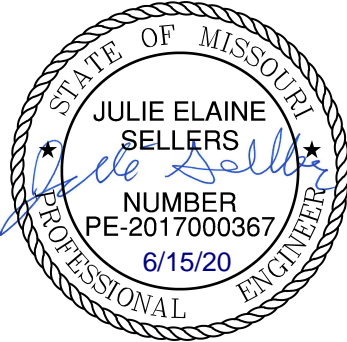
HOOK FARMS
FIRST PLAT

LEE'S SUMMIT, MO

REVISIONS

2020

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	06/15/2020	REVISED PER CITY COMMENTS	



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1301 Burlington Street
North Kansas City, MO 64116

olson


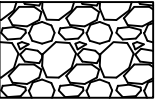

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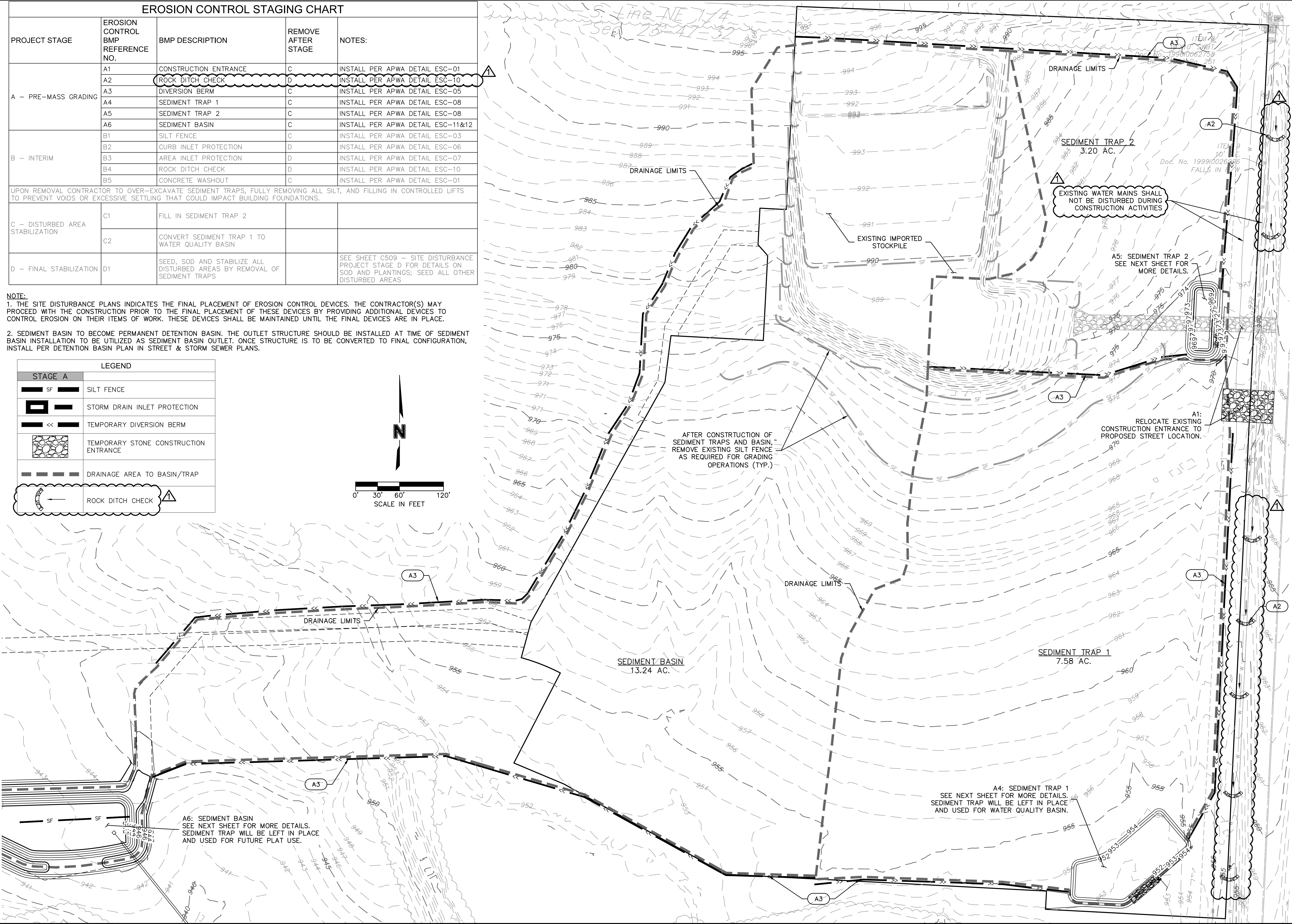
drawn by: _____ CGW
checked by: _____ JES
approved by: _____ NDH
QA/QC by: _____ JES
project no.: _____ 019-4061
drawing no.: _____
date: _____ 04/20/2020

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EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-MASS GRADING	A1	CONSTRUCTION ENTRANCE	C	INSTALL PER APWA DETAIL ESC-01
	A2	ROCK DITCH CHECK	D	INSTALL PER APWA DETAIL ESC-10
	A3	DIVERSION BERM	C	INSTALL PER APWA DETAIL ESC-05
	A4	SEDIMENT TRAP 1	C	INSTALL PER APWA DETAIL ESC-08
	A5	SEDIMENT TRAP 2	C	INSTALL PER APWA DETAIL ESC-08
	A6	SEDIMENT BASIN	C	INSTALL PER APWA DETAIL ESC-11&12
B - INTERIM	B1	SILT FENCE	C	INSTALL PER APWA DETAIL ESC-03
	B2	CURB INLET PROTECTION	D	INSTALL PER APWA DETAIL ESC-06
	B3	AREA INLET PROTECTION	D	INSTALL PER APWA DETAIL ESC-07
	B4	ROCK DITCH CHECK	D	INSTALL PER APWA DETAIL ESC-10
	B5	CONCRETE WASHOUT	C	INSTALL PER APWA DETAIL ESC-01
UPON REMOVAL CONTRACTOR TO OVER-EXCAVATE SEDIMENT TRAPS, FULLY REMOVING ALL SILT, AND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR EXCESSIVE SETTLING THAT COULD IMPACT BUILDING FOUNDATIONS.				
C - DISTURBED AREA STABILIZATION	C1	FILL IN SEDIMENT TRAP 2		
	C2	CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN		
D - FINAL STABILIZATION	D1	SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS		SEE SHEET C509 - SITE DISTURBANCE PROJECT STAGE D FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS

NOTE:
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2. SEDIMENT BASIN TO BECOME PERMANENT DETENTION BASIN. THE OUTLET STRUCTURE SHOULD BE INSTALLED AT TIME OF SEDIMENT BASIN INSTALLATION TO BE UTILIZED AS SEDIMENT BASIN OUTLET. ONCE STRUCTURE IS TO BE CONVERTED TO FINAL CONFIGURATION, INSTALL PER DETENTION BASIN PLAN IN STREET & STORM SEWER PLANS.

LEGEND	
STAGE A	
SF	SILT FENCE
	STORM DRAIN INLET PROTECTION
<<	TEMPORARY DIVERSION BERM
	TEMPORARY STONE CONSTRUCTION ENTRANCE
---	DRAINAGE AREA TO BASIN/TRAP
	ROCK DITCH CHECK



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STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
6/15/20

BY

REVISIONS DESCRIPTION
REV. NO. DATE REVISIONS DESCRIPTION
1 06/15/2020 REVISED PER CITY COMMENTS

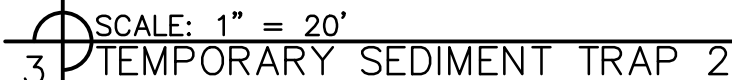
SITE DISTURBANCE PROJECT STAGE A
SITE DISTURBANCE PLANS
HOOK FARMS
FIRST PLAT
LEE'S SUMMIT, MO
2020

drawn by: CGW
checked by: JES
approved by: NDH
QA/QC by: JES
project no.: 019-4061
drawing no.:
date: 04/20/2020

SHEET
C505



TRAP	TRIBUTARY AREA	REQUIRED VOLUME	BERM HEIGHT "H"	SPILLWAY HEIGHT "HO"	STORAGE VOLUME	BERM TOP WIDTH "W"	SPILLWAY LENGTH	EXCAVATED DEPTH	EXCAVATED VOLUME	SEDIMENT CLEANOUT VOLUME	SEDIMENT CLEANOUT ELEVATION
	(AC.)	(C.F.)	(FT.)	(FT.)	(C.F.)	(FT.)	(FT.)	(FT.)	(C.F.)	(C.F.)	(FT.)
1	7.58	13647.31	1.5	0.5	14154.86	2	46	1	9011.31	2830.97	951.81
2	3.20	5754.41	2	1	7652.52	2	20	2	2532.12	1530.50	969.81



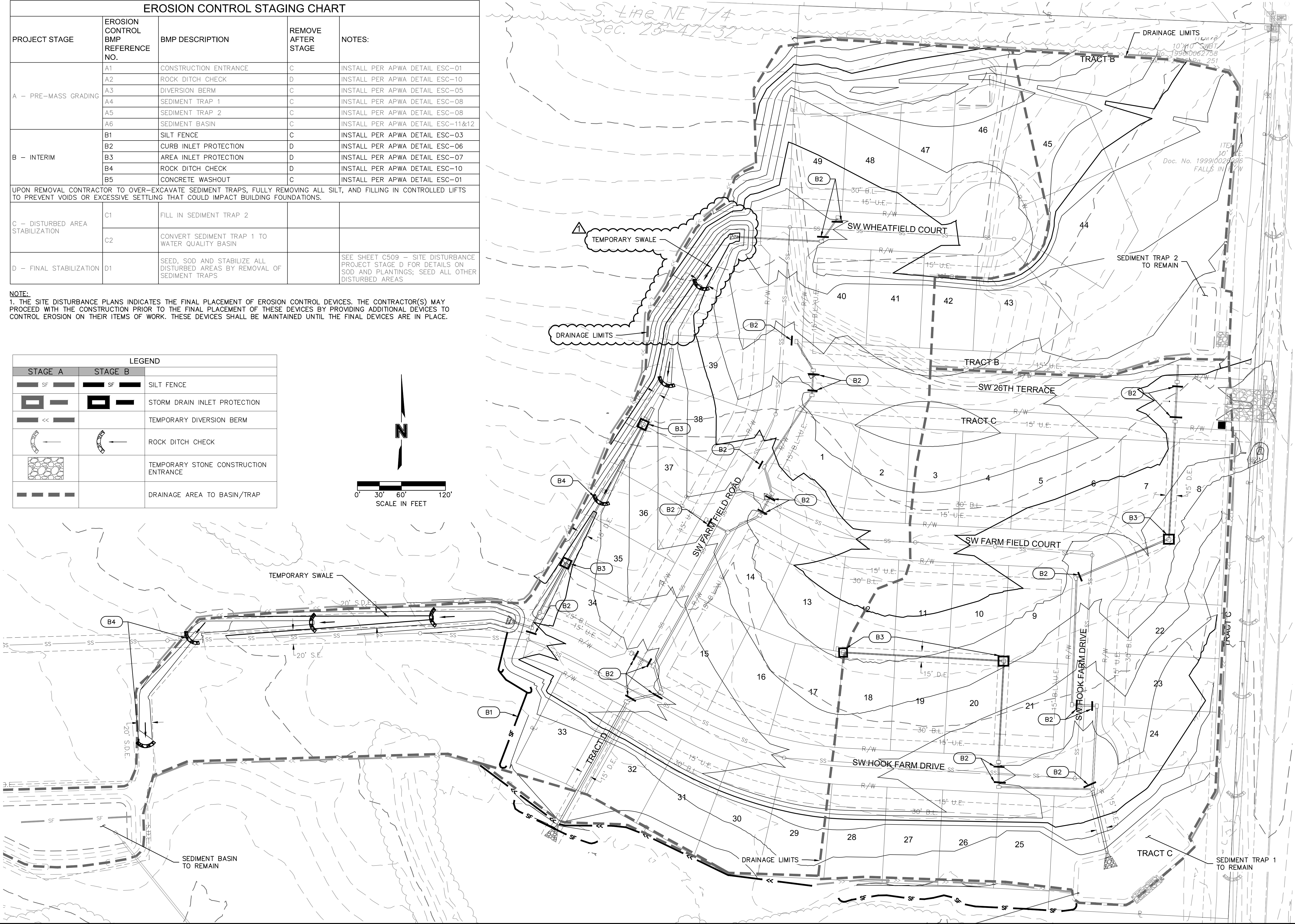
SEDIMENT BASIN DESIGN DATA SUMMARY			
TITLE: HOOK FARMS FIRST PLAT			
JOB #: 019-4061			
Design Item:	Basin #1	Units	Notes:
<i>Site Data:</i>			
Tributary Drainage Area to Pond:	13.24	Acres	
Disturbed Tributary Drainage Area to Pond:	13.24	Acres	
50% (2 yr) Design Flow:	34.49	cfs	
4% (25 yr) Design Flow:	61.27	cfs	
<i>Pond Data:</i>			
Minimum Sediment Storage Volume:	1775	cu. yd.	134 cy/acre minimum
Provided Sediment Storage Volume:	1775	cu. yd.	134 cy/acre minimum
Bottom Elevation:	940.00	Ft	
Sediment Cleanout Elevation:	941.74	Ft	Elevation Equal to 50% of Original Design Volume.
Sediment Cleanout Volume	888.00	cu. yd.	
Top of Riser Elevation:	943.13	Ft	Top of Dry Storage Volume
Emergency Spillway Elevation:	944.50	Ft	at or Above Q-2 elev. 1.0 ft min above principal spillway
Q-25 year Elevation:	944.98	Ft	
Top of Dam Elevation:	946.00	Ft	1.0 ft min above Q-25 elev.
<i>Basin Shape Data:</i>			
A= Area at Normal Pool	18936.33	SF	
L = Length of Flow Path	30.00	Ft	
We = Effective Width = A/L	631.21	Ft	
Length to Width Ratio = L/We	0.05		If Length to Width Ratio is less than 2, baffles are required
<i>Principal Spillway Data:</i>			
Riser Pipe Diameter or Length x Width:	36	in	15-inch min. Size for 2 year flow minimum
Barrell Pipe Diameter:	30	in	15-inch min. Size for 2 year flow minimum
Riser Pipe Base Size:	0.92	cu. yd.	Size to Prevent Flotation. 1.25 safety factor required.
<i>**Skimmer Size:</i>			
**Orifice Diameter (if reduced from standard):		in	**Based on ASP Enterprises Faircloth Skimmer Design Guide
Skimmer Elevation	941.75	Ft	Flowline of skimmer at riser
<i>Emergency Spillway Data:</i>			
Design Width of Spillway:	70.00	Ft	
Design Flow Depth in Spillway:	0.48	Ft	
Design Velocity in Spillway:	1.82	Ft/sec	
Lining Material:	Rip Rap-6"	N/A	

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USER: nheiser

EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-MASS GRADING	A1	CONSTRUCTION ENTRANCE	C	INSTALL PER APWA DETAIL ESC-01
	A2	ROCK DITCH CHECK	D	INSTALL PER APWA DETAIL ESC-10
	A3	DIVERSION BERM	C	INSTALL PER APWA DETAIL ESC-05
	A4	SEDIMENT TRAP 1	C	INSTALL PER APWA DETAIL ESC-08
	A5	SEDIMENT TRAP 2	C	INSTALL PER APWA DETAIL ESC-08
	A6	SEDIMENT BASIN	C	INSTALL PER APWA DETAIL ESC-11&12
B - INTERIM	B1	SILT FENCE	C	INSTALL PER APWA DETAIL ESC-03
	B2	CURB INLET PROTECTION	D	INSTALL PER APWA DETAIL ESC-06
	B3	AREA INLET PROTECTION	D	INSTALL PER APWA DETAIL ESC-07
	B4	ROCK DITCH CHECK	D	INSTALL PER APWA DETAIL ESC-10
	B5	CONCRETE WASHOUT	C	INSTALL PER APWA DETAIL ESC-01
UPON REMOVAL CONTRACTOR TO OVER-EXCAVATE SEDIMENT TRAPS, FULLY REMOVING ALL SILT, AND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR EXCESSIVE SETTLING THAT COULD IMPACT BUILDING FOUNDATIONS.				
C - DISTURBED AREA STABILIZATION	C1	FILL IN SEDIMENT TRAP 2		
	C2	CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN		
D - FINAL STABILIZATION	D1	SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS		SEE SHEET C509 - SITE DISTURBANCE PROJECT STAGE D FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS

NOTE:
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LEGEND		
STAGE A	STAGE B	
		SILT FENCE
		STORM DRAIN INLET PROTECTION
		TEMPORARY DIVERSION BERM
		ROCK DITCH CHECK
		TEMPORARY STONE CONSTRUCTION ENTRANCE
		DRAINAGE AREA TO BASIN/TRAP



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www.olsson.com

STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE-2017000367
6/15/20

BY	REVISIONS DESCRIPTION	DATE	REV. NO.
	REVISD PER CITY COMMENTS	06/15/2020	1

SITE DISTURBANCE PROJECT STAGE B
SITE DISTURBANCE PLANS

HOOK FARMS
FIRST PLAT

LEE'S SUMMIT, MO

2020

drawn by: CGW
checked by: JES
approved by: NDH
QA/QC by: JES
project no.: 019-4061
drawing no.: 04/20/2020








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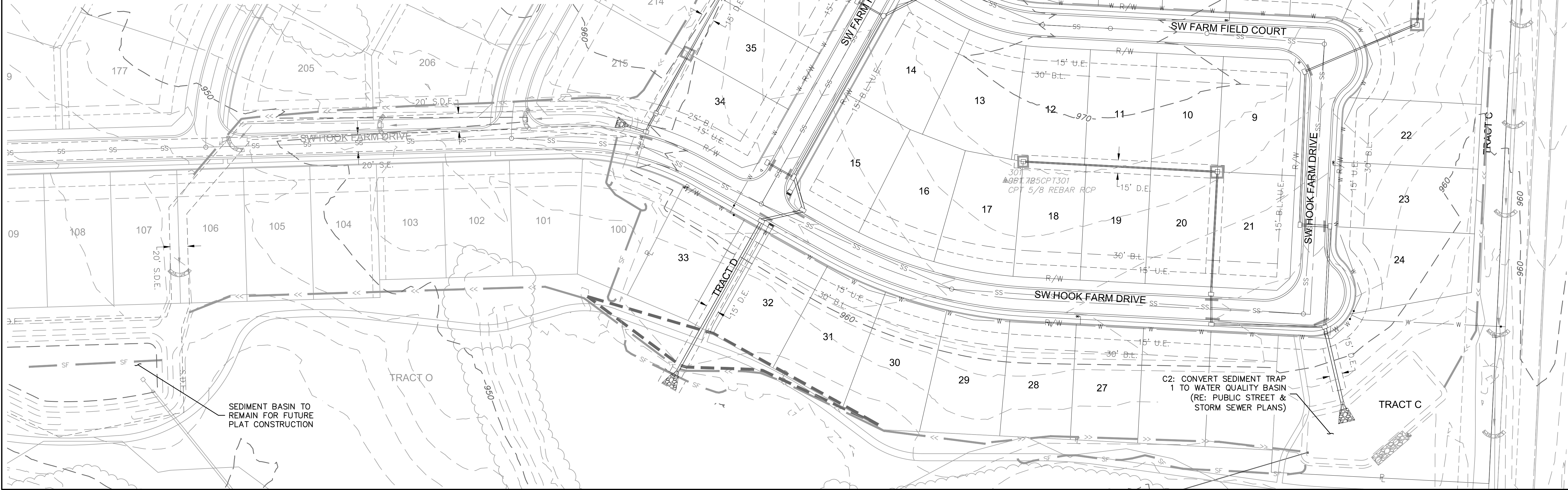
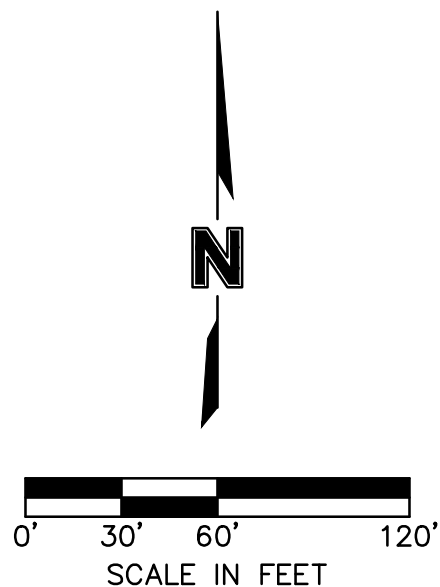
EROSION CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
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C – DISTURBED AREA STABILIZATION	C1	FILL IN SEDIMENT TRAP 2		
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LEGEND		
STAGE A/B	STAGE C	
 SF 		SILT FENCE
		STORM DRAIN INLET PROTECTION
 << 		TEMPORARY DIVERSION BERM
		ROCK DITCH CHECK
		TEMPORARY STONE CONSTRUCTION ENTRANCE



SITE DISTURBANCE PROJECT STAGE C SITE DISTURBANCE PLANS

HOOK FARMS
FIRST PLAT

LEE'S SUMMIT. MO.

drawn by: _____ CGW
checked by: _____ JES
approved by: _____ NDH
QA/QC by: _____ JES
project no.: _____ 019-4061
drawing no.: _____
date: _____ 04/20/2020

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1301 Burlington Street
North Kansas City, MO 64116

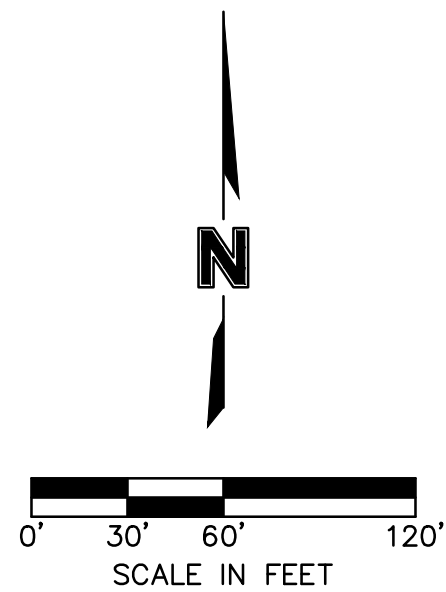
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EROSION CONTROL STAGING CHART				
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LEGEND	
STAGE D	
	SEEDING & STABILIZATION



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STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE-2017000367
6/15/20

BY

REV. NO.

DATE

REVISIONS DESCRIPTION

REVISED PER CITY COMMENTS

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06/15/2020

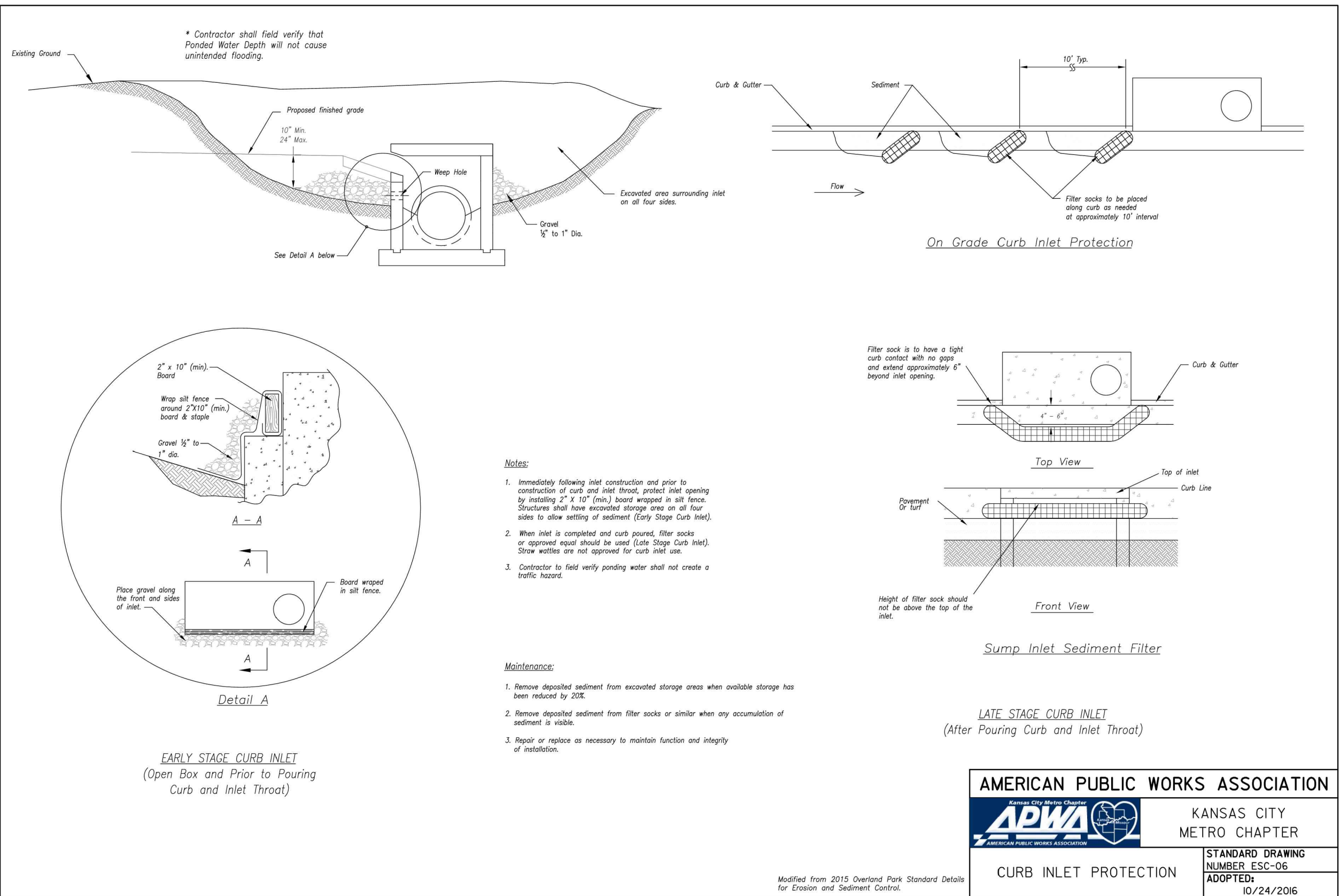
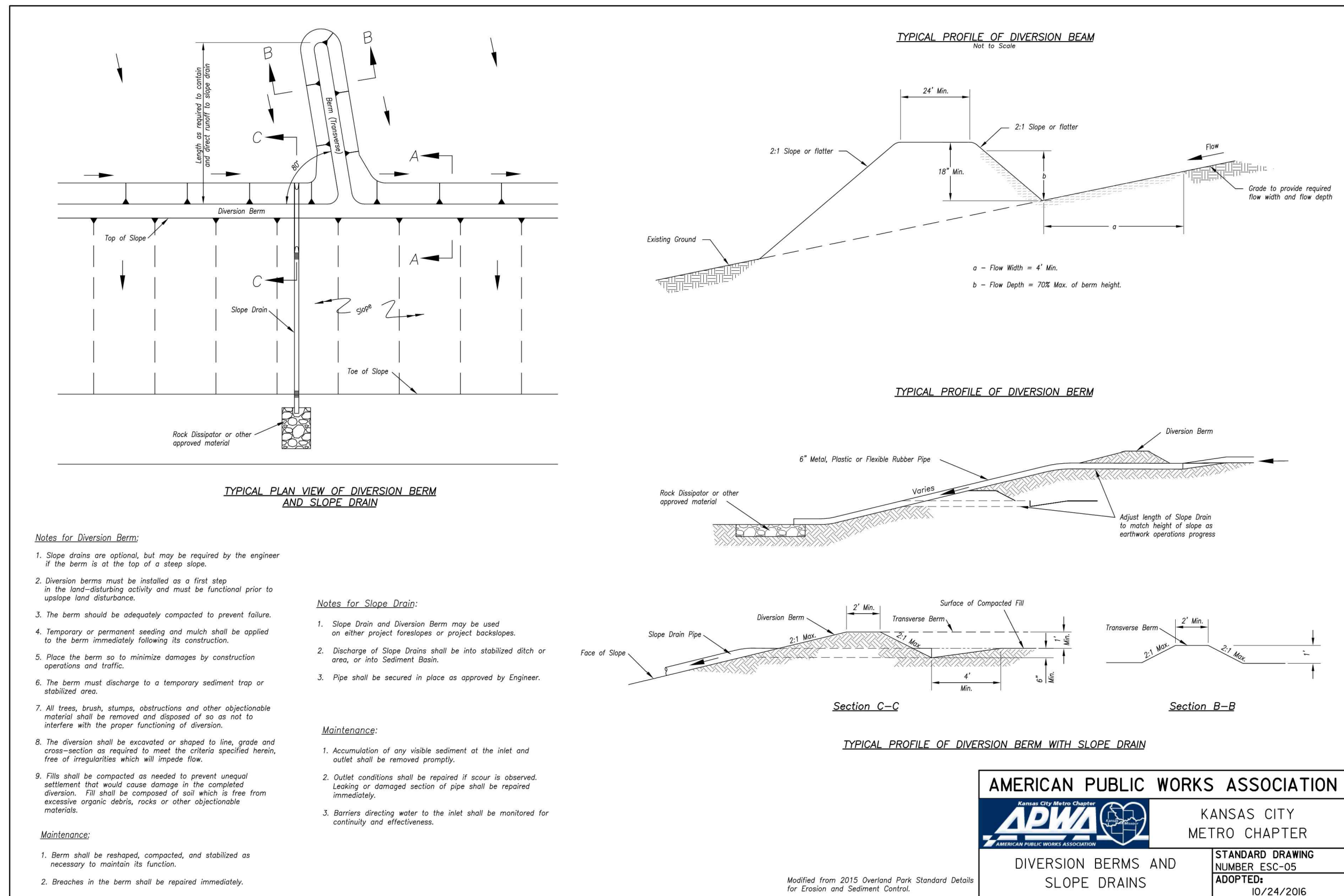
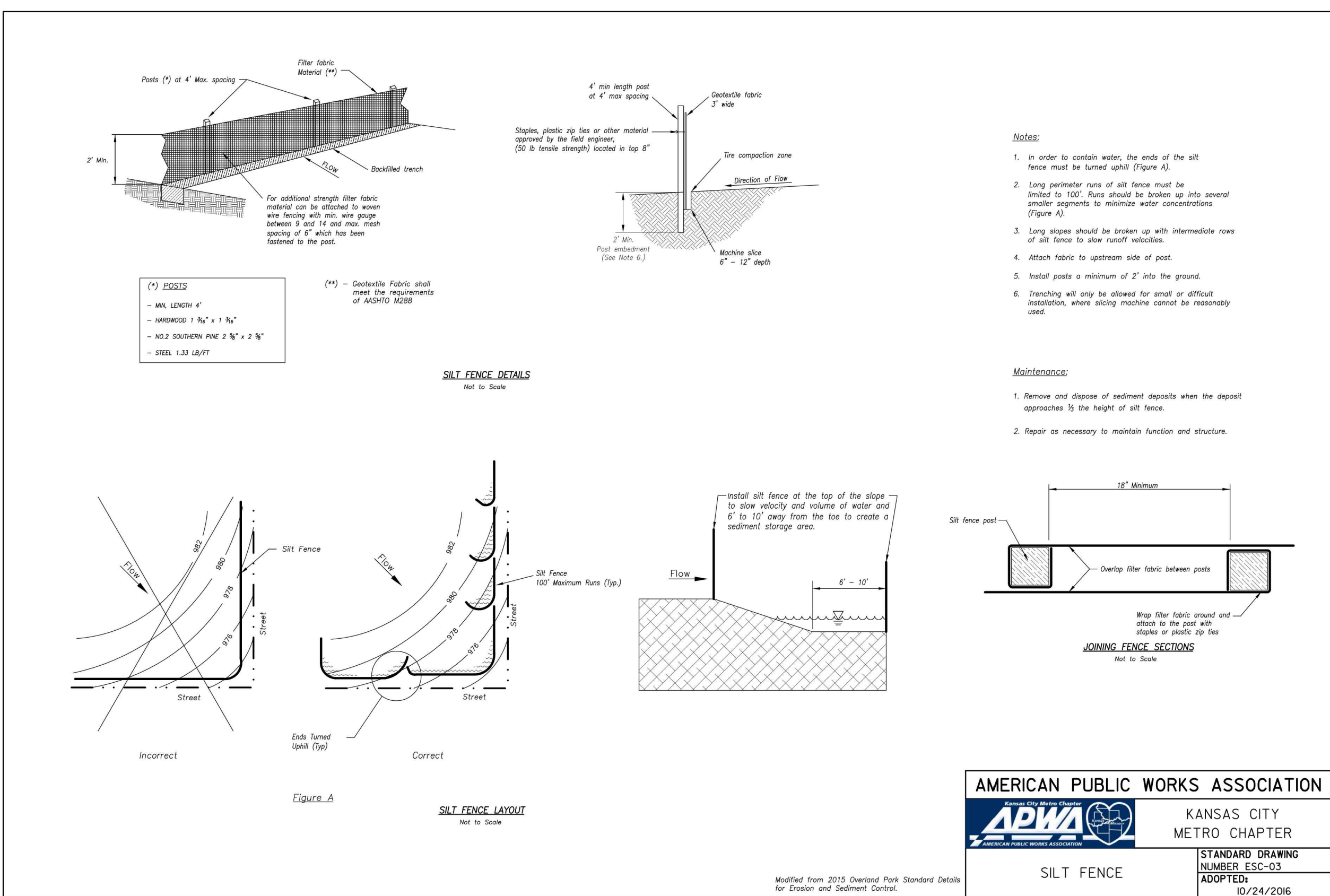
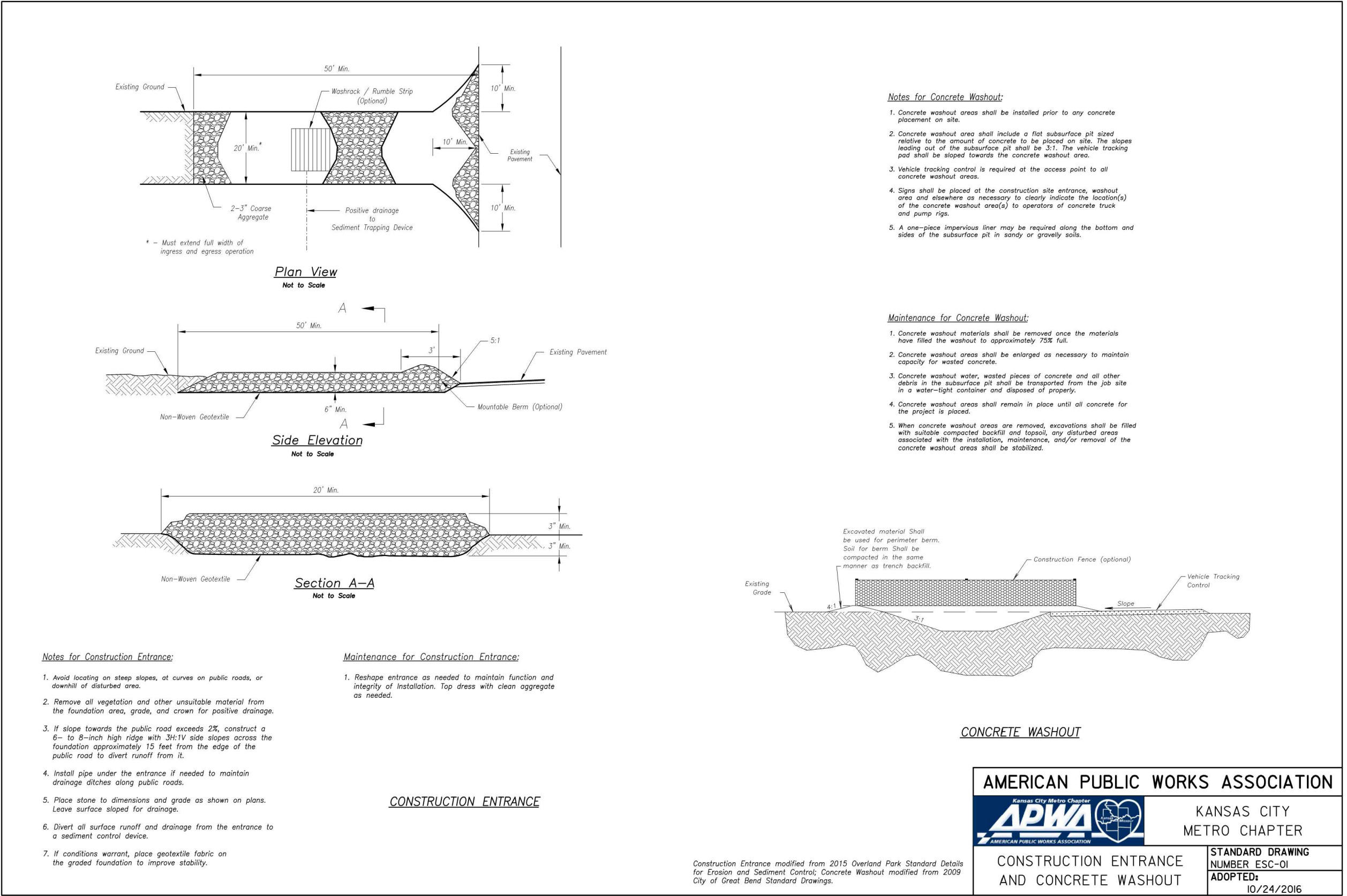
SITE DISTURBANCE PROJECT STAGE D
SITE DISTURBANCE PLANS

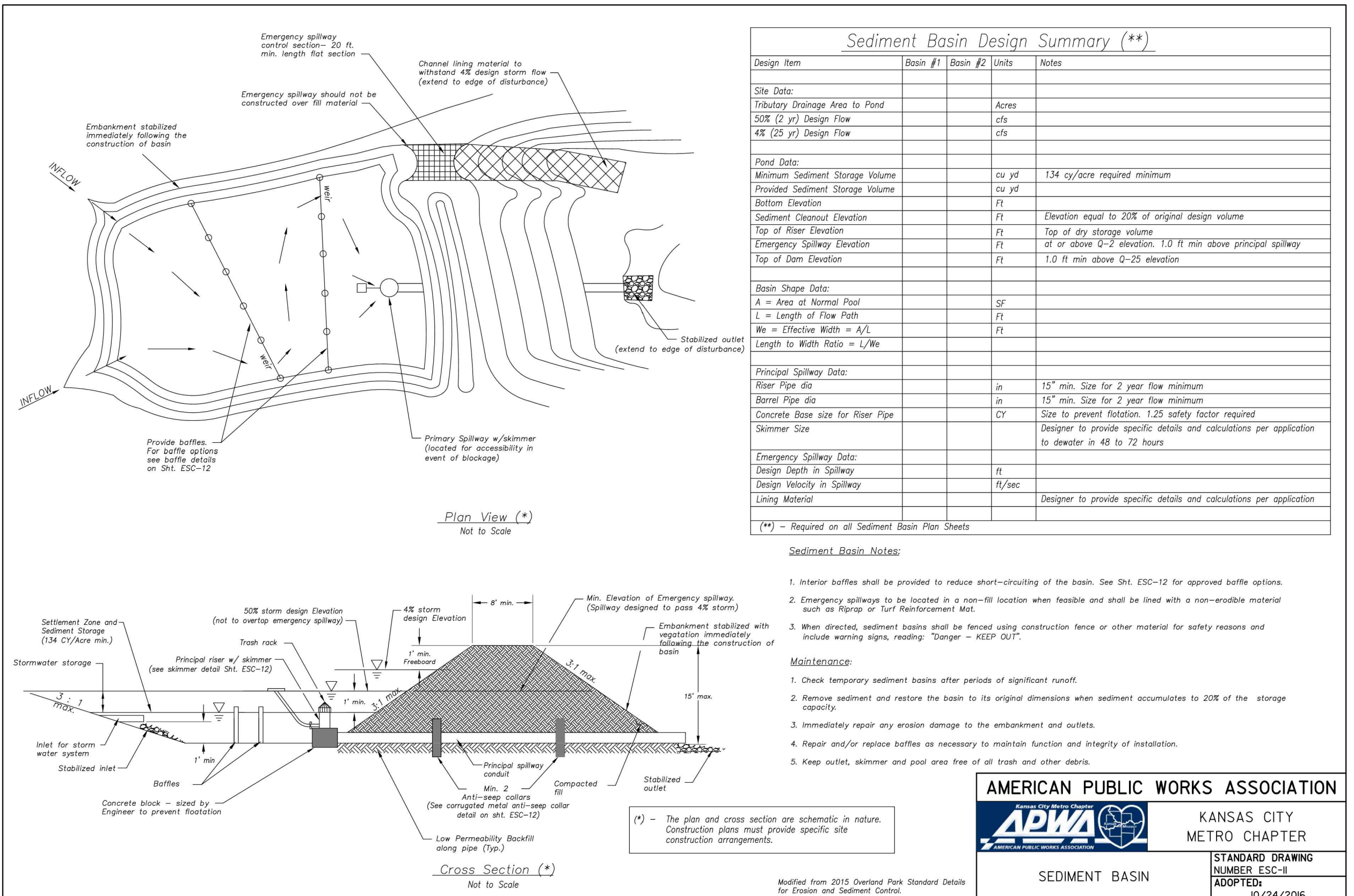
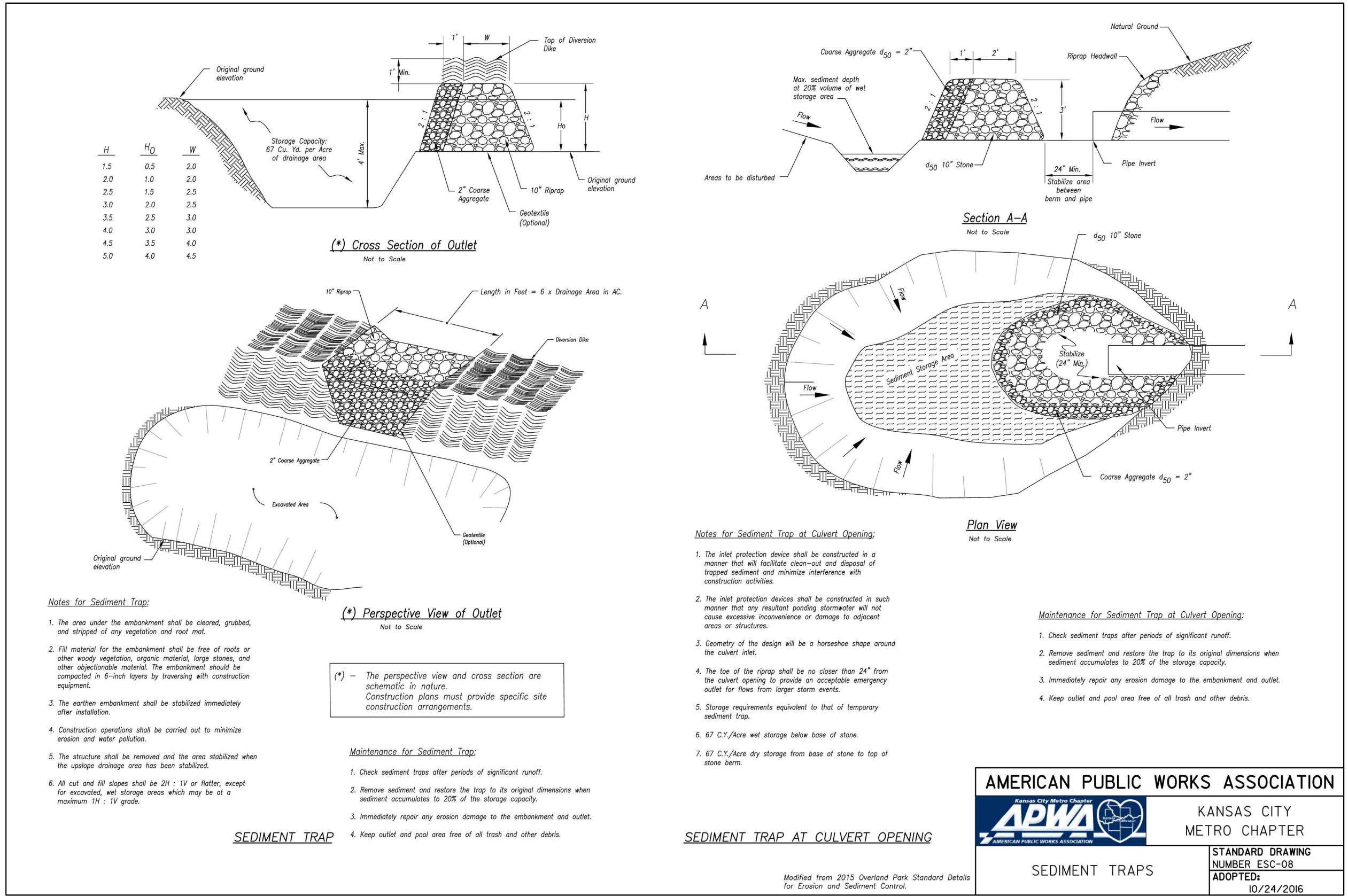
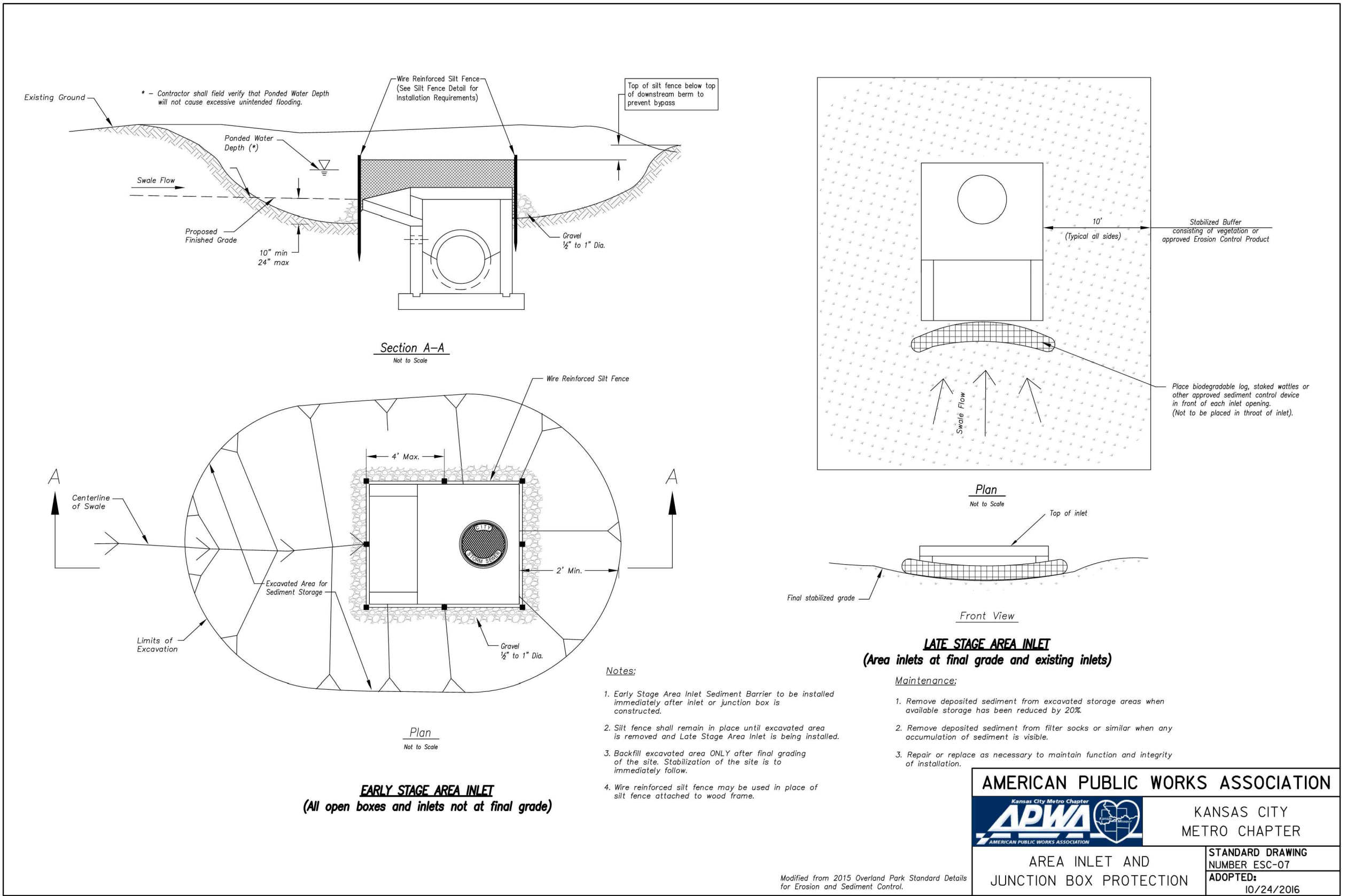
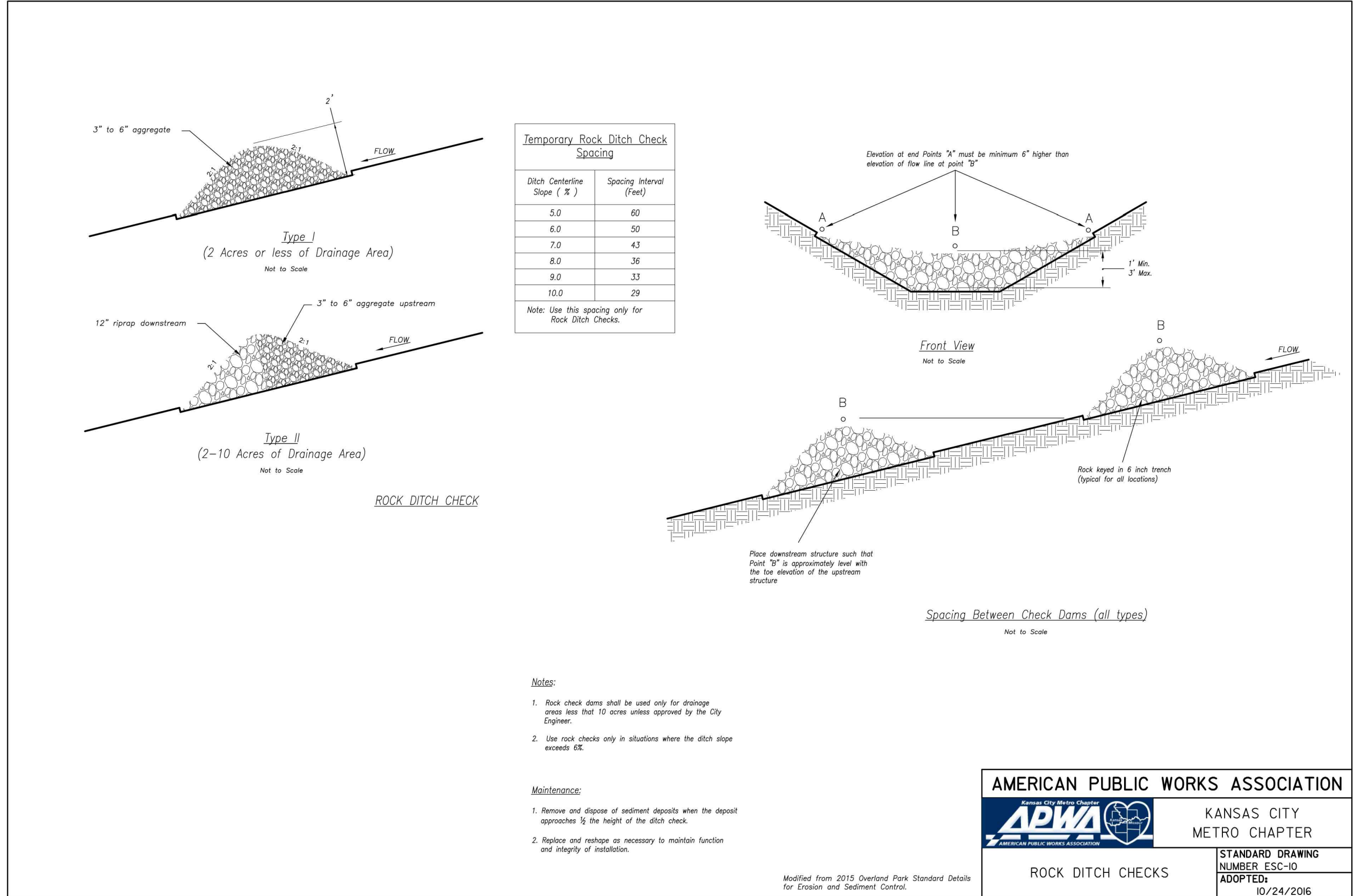
HOOK FARMS
FIRST PLAT

2020

drawn by: CGW
checked by: JES
approved by: NDH
QA/QC by: JES
project no.: 019-4061
drawing no.:
date: 04/20/2020

SHEET
C509





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NUMBER PE-2017000367
6/15/20

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

1

06/15/2020

REVISOR PER CITY COMMENTS

DETAIL SHEET
SITE DISTURBANCE PLANS

HOOK FARMS
FIRST PLAT

2020

LEE'S SUMMIT, MO

drawn by: CGW
checked by: JES
approved by: NDH
QA/QC by: JES
project no.: 019-4061
drawing no.:
date: 04/20/2020

SHEET
C511

