- UTILITY EASEMENT

CURB & GUTTER

TREELINE

—— P/L —— PROPERTY LINES

----- STORM SEWER

---- CATV<sub>x</sub> ---- CABLE TV - EXISTING

——Ty—— TELEPHONE LINE - EXIST.

GAS LINE - EXISTING

——W<sub>x</sub> — WATERLINE - EXISTING

CLEANOUT

W/E

- WATER SURFACE ELEVATION

**ASPHALT PAVEMENT - EXISTING** 

**ASPHALT PAVEMENT - PROPOSED** 

**CONCRETE PAVEMENT - EXISTING** 

**ASPHALT PAVEMENT - EXISTING** 

CONCRETE SIDEWALK - EXISTING

CONCRETE SIDEWALK - PROPOSED

CURB & GUTTER - EXISTING

EXISTING LOT AND R/W LINES

EXISTING PLAT LINES

SANITARY SEWER MAIN

STORM SEWER - EXISTING

—— SANITARY SEWER MAIN - EXIST

FIBER OPTIC CABLE - EXISTING

---- OHP<sub>y</sub> ---- OVERHEAD POWER LINE - EXIST

—— UGE<sub>Y</sub> —— UNDERGROUND ELECTRIC - EX.

LIGHT - EXISTING

**EXISTING MANHOLE** 

EXISTING AREA INLET **EXISTING CURB INLET** 

EXISTING GRATE INLET **EXISTING JUNCTION BOX** 

EXISTING STORM MANHOLE

EXISTING SANITARY MANHOLE

PROPOSED SANITARY MANHOLE

WATERLINE EASEMENT

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) Steve Holloway 600 NE Colbern Road

Lee's Summit, MO 64086 (816) 607-2186 SPIRE

Brent Jones 3025 SE Clover Drive Lee's Summit, MO 64082 (816) 399-0663brent.jones@spireenergy.com

**EVERGY** Philip Ingram 1300 SE Hamblin Road Lee's Summit, MO 64081 Office: (816) 347-347-4339 philip.inghram@evergy.com

CITY OF LEES SUMMIT PUBLIC WORKS Dena Mezger 220 SE Green Street

Lee's Summit, MO 64063 (816) 969-1800

Mark Manion or Marty Loper 500 E. 8th Street, Room 370 Kansas City, MO 64106 (816) 275-2341 or (816) 275-1550

COMCAST CABLE John Meadows 4700 Little Blue Parkway (816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES Mark Schaufler 1200 SE Hamblen Road Lee's Summit, MO 64081



811 or 1-800-344-7483 mo1call.com

# MASS GRADING & EROSION SEDIMENT CONTROL PLANS RESIDENCES, REUNION & RESERVE AT **BLACKWELL**

## IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MO

#### **GENERAL NOTES**

STREET NOTES:

QUANTITY

133,890

37

UNITS

CY

AC

DEVELOPMENT ENGINEERING.

10. SSD = STOPPING SIGHT DISTANCE.

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND
- WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED PRIOR TO ORDERING PRECAST STRUCTURES. SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL MANHOLES. CATCH BASINS. UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE
- THE CONTRACTOR SHALL CONTACT DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1200 TO OBTAIN A
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S

3. ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT

11. ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC

4. CURB RETURN RADII SHALL BE 30' AT BACK OF CURB UNLESS OTHERWISE NOTED.

SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

ASSUMED DESIGN SPEED = 30 MPH (RESIDENTIAL COLLECTOR).

8. MINIMUM K, SAG CURVE = 37 (20 WITH LIGHTING), CREST CURVE = 19.

MINIMUM STOPPING SIGHT DISTANCE = 200 FEET.

9. GRADE INTERSECTIONS TO DRAIN AS SHOWN.

SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.

2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

#### **GENERAL NOTES:**

**UTILITIES** 

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS **ADOPTED BY ORDINANCE 5813.**
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE
- ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE
- MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND
- ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED
- PRIOR TO ORDERING PRECAST STRUCTURES. SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED
- BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION
- AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS 13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE
- THE CONTRACTOR SHALL CONTACT DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1200 TO OBTAIN A DEVELOPMENT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
- 16. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION)

EXISTING UTILITIES HAVE BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE BASED UPON INFORMATION

PROVIDED TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE

UTILITY COMPANIES AND FIELD LOCATING UTILITIES PRIOR TO CONSTRUCTION AND IDENTIFYING ANY

POTENTIAL CONFLICTS. ALL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY RELOCATIONS.

CONTRACTOR SHALL VERIFY FLOW-LINES AND STRUCTURE TOPS PRIOR TO CONSTRUCTION, AND SHALL

MANUFACTURED UTILITY STRUCTURES FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE

UTILITY SEPARATION: WATERLINES SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION FROM ALL SANITARY SEWER LINES, MANHOLES, AND SANITARY SEWER SERVICE LATERALS, AS

ENCASEMENT OF THE SANITARY LINE SHALL BE REQUIRED 10 FEET IN EACH DIRECTION OF THE CONFLICT. PAYMENT FOR TRENCHING, BACKFILLING, PIPE EMBEDMENT, FLOWABLE FILL, BACKFILL MATERIALS, CLEAN UP, SEEDING, SODDING AND ANY OTHER ITEMS NECESSARY FOR THE CONSTRUCTION OF THE UTILITY LINE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE UTILITY COMPANIES 48-HOURS IN ADVANCE FOR THE INSPECTION OF ANY PROPOSED UTILITY MAIN EXTENSION OR SERVICE LINE OR SERVICE

TRENCH SPOILS SHALL BE NEATLY PLACED ONSITE ADJACENT TO THE TRENCH, AND COMPACTED TO PREVENT SATURATION AND EXCESS SEDIMENT RUNOFF. UNSUITABLE MATERIALS, EXCESS ROCK AND SHALE, ASPHALT, CONCRETE, TREES, BRUSH ETC. SHALL BE PROPERLY DISPOSED OF OFFSITE. MATERIALS

MAY BE WASTED ONSITE AT THE DIRECTION OF THE OWNER OR HIS APPOINTED REPRESENTATIVE.

UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE

NOTIFY ENGINEER OF ANY DISCREPANCIES. PROVIDE SHOP DRAWINGS FOR ALL PRECAST AND

MEASURED FROM EDGE TO EDGE. IF MINIMUM SEPARATIONS CAN NOT BE OBTAINED, CONCRETE

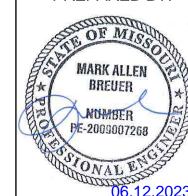
SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE UTILITY INSTALLATION.

CONNECTION TO ANY EXISTING MAIN.

#### **Sheet List Table Sheet Number** Sheet Title **COVER SHEET** GRADING PLAN FULL SITE 2 PRE-CONSTRUCTION EROSION CONTROL PLAN **EROSION CONTROL PLAN** POST-CONSTRUCTION EROSION CONTROL PLAN **EROSION CONTROL DETAILS EROSION CONTROL DETAILS** OUTLET STRUCTURE 801 **OUTLET STRUCTURE 2401 OUTLET STRUCTURE 201**

RELEASED FOR CONSTRUCTION As Noted on Plan Review

**Development Services Department** Lee's Summit, Missouri



SCHLAGEL & ASSOCIATES, P.A.

**APPROVED BY** 

CITY ENGINEER

APPROVED FOR ONE YEAR FROM THIS DATE

### OWNER/DEVELOPER

**GRIFFIN RILEY PROPERTY GROUP** JAKE LOVELESS, VICE PRESIDENT 21 SE 29TH TERRACE LEE'S SUMMIT p 816-366-7900 JAKE@GRIFFINRILEY.COM

PREPARED BY RVE MENT

× Z ⊗ Z

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### MO GRS BENCHMARK:

STATION NAME - JA-90

KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD. N:1001052.8503, E:2845604.8272

ELEV. 997.045

### PROJECT BENCHMARK:

"SQUARE" CUT IN TOP OF CONCRETE STORM MANHOLE STORM MANHOLE IS LOCATED APPROX. 130 FEET EAST OF THE INTERSECTION OF SE JOEL AVE & BLUE PARKWAY AND 26 FEET SOUTH OF THE CENTERLINE OF BLUE PARKWAY. N:996874.9690, E:2840937.1365

ELEV. 1005.719

**COVER SHEET** 

SHEET

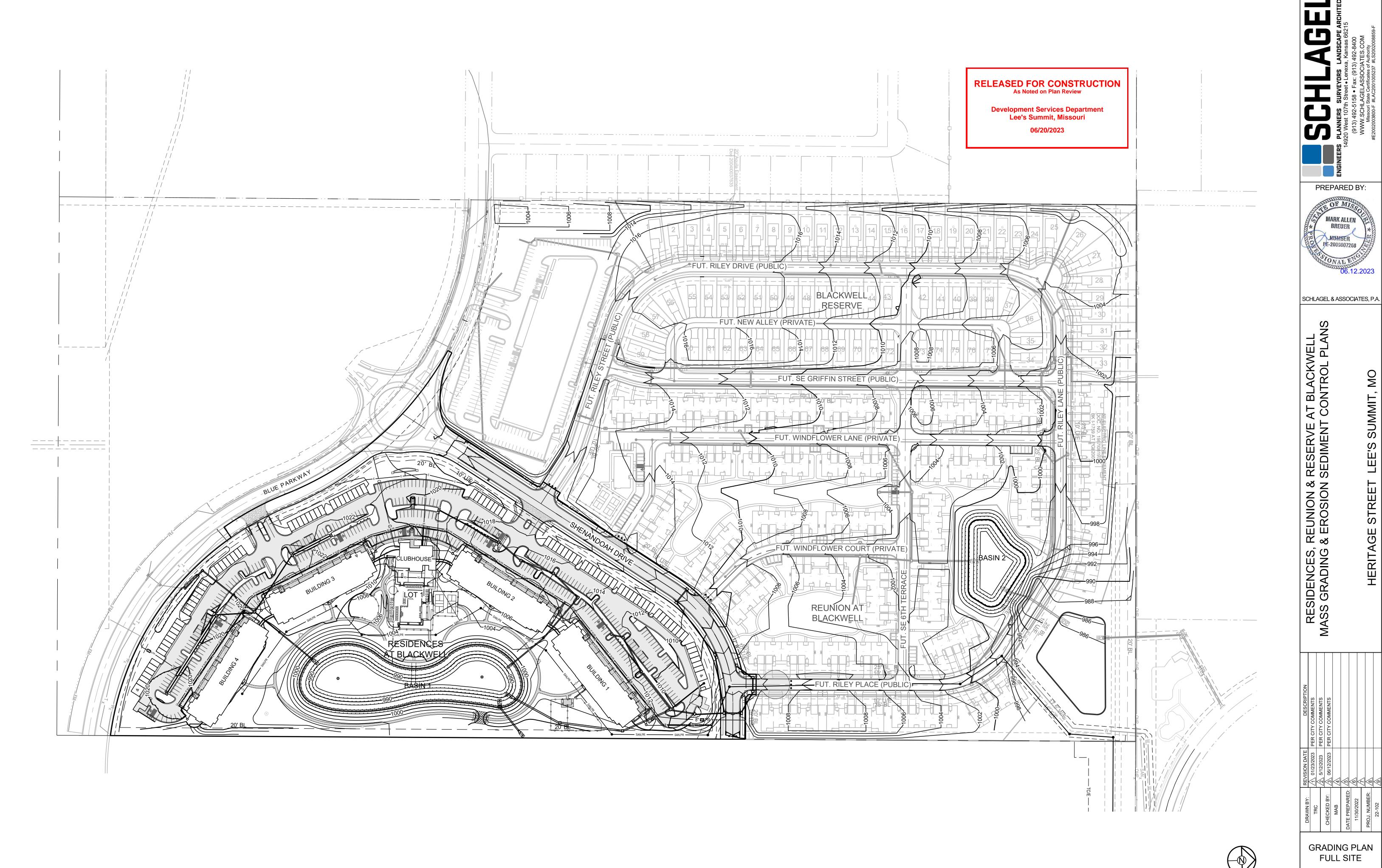
#### 135,270 2 EMBANKMENT CY CLEARING, GRUBBING & DISPOSAL LS CONSTRUCTION ENTRANCE & STAGING AREA EΑ EΑ CONCRETE WASHOUT AREA SILT FENCE (PRIOR TO CONSTRUCTION) 7,470 LF | SILT FENCE (DURING CONSTRUCTION) 8,504 LF SEDIMENT BASIN EΑ ROCK DITCH CHECK EΑ 9 10 INLET PROTECTION (SILT FENCE) EΑ 24 INLET PROTECTION (GRAVEL FILTER BAGS) 28 EΑ TURF REINFORCEMENT MAT 21,553 SY

**SUMMARY OF QUANTITIES** 

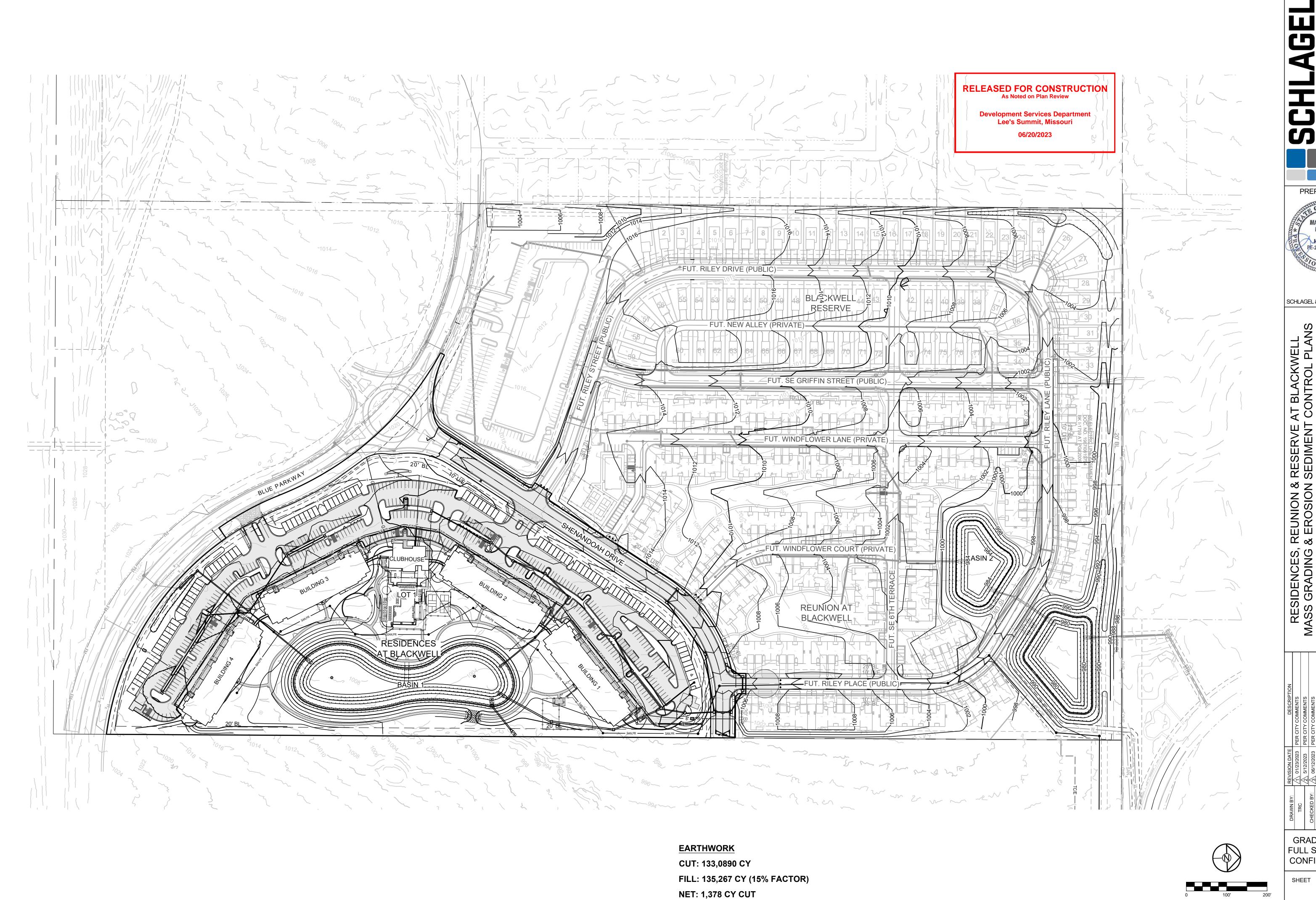
ITEM

COMMON EXCAVATION

13 SEEDING AND MULCHING



0 100' 200' SCALE: 1" = 100'



(APPROXIMATE - PAVEMENTS AND TRENCHING NEGLECTED)

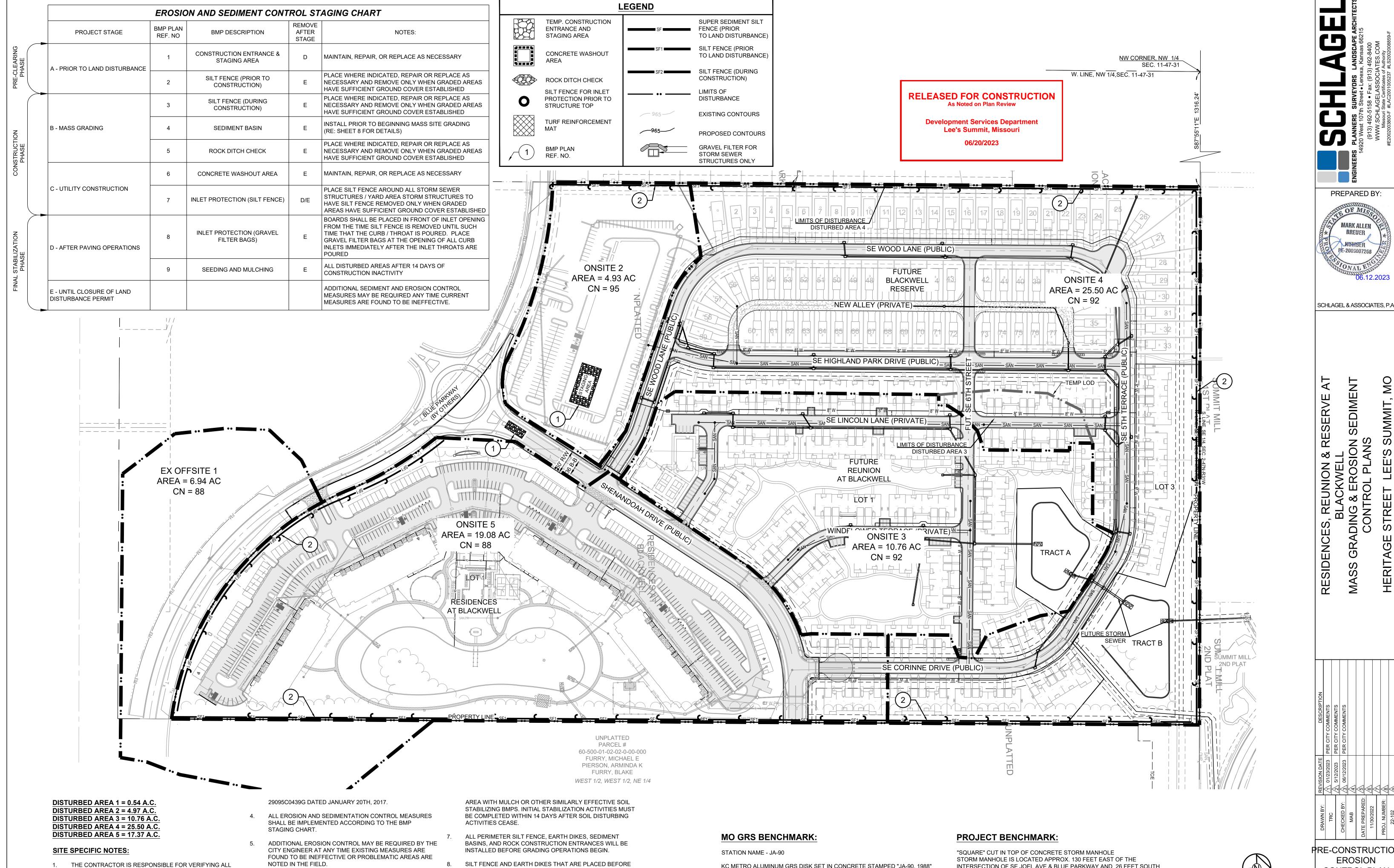
PREPARED BY:

MUMBER PE-2009007268

SCHLAGEL & ASSOCIATES, P.A.

GRADING PLAN FULL SITE - FINAL CONFIGURATION

SCALE: 1" = 100'



GRADING BEGINS WILL BE MAINTAINED BY THE GRADING

AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED

IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR.

STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM

ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION

OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION

SHALL BE PROTECTED FROM EROSION BY STABILIZING THE

EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS

BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING,

GRADING, EXCAVATING, OR OTHER SOIL DISTURBING

OF THE SITE AND WILL NOT RESUME FOR A PERIOD

EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

WATER STORAGE DETENTION AREAS IN THE PROJECT

NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR

FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP

NUMBERS 29095C0441G, 29095C0445G, 29095C0437G AND

THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL

KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988"

LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD

ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD.

LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD

N:1001052.8503, E:2845604.8272

ELEV. 997.045

PRE-CONSTRUCTION **EROSION** CONTROL PLAN

SHEET

SCALE: 1" = 100'

INTERSECTION OF SE JOEL AVE & BLUE PARKWAY AND 26 FEET SOUTH

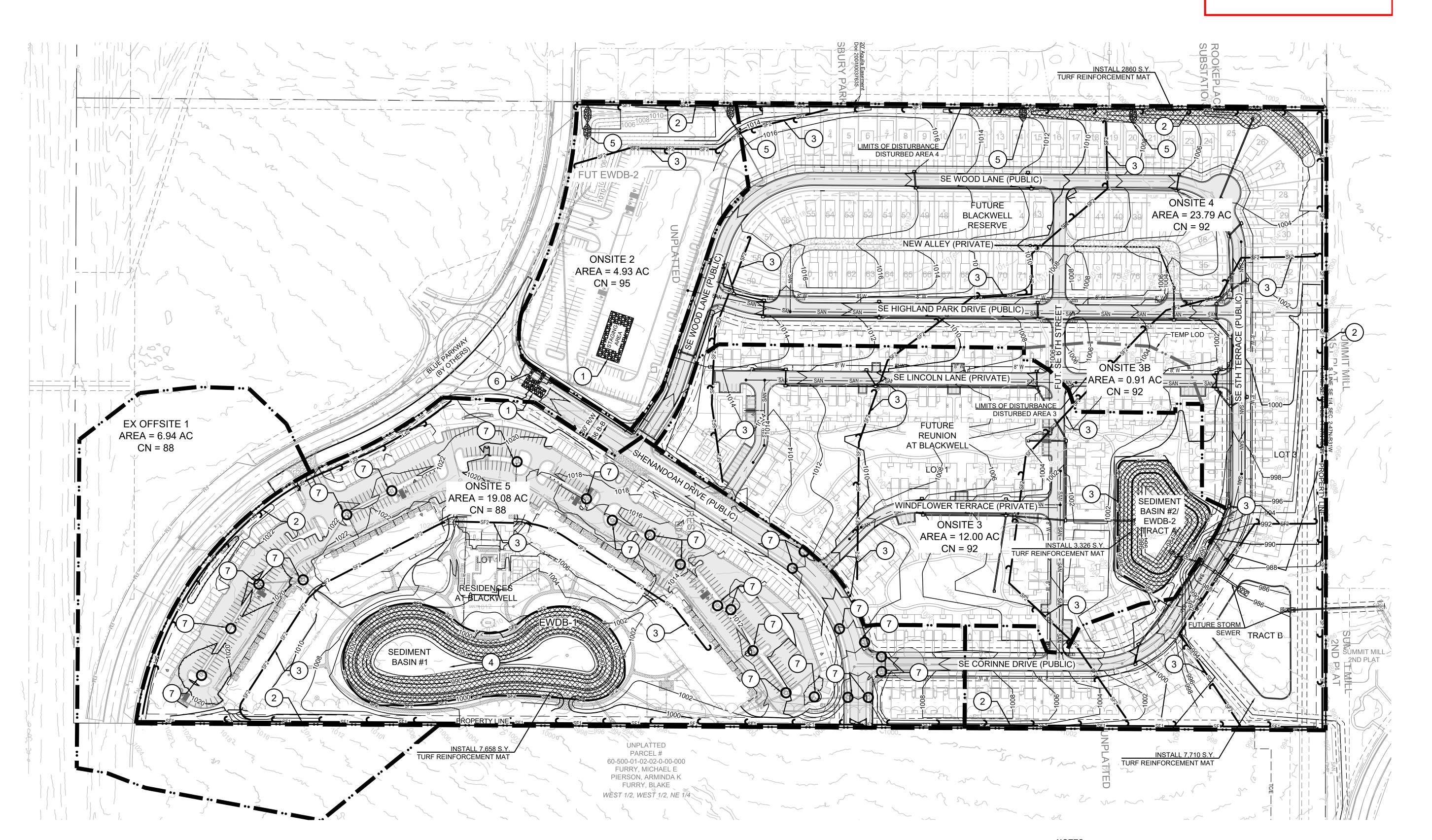
OF THE CENTERLINE OF BLUE PARKWAY.

N:996874.9690, E:2840937.1365

ELEV. 1005.719

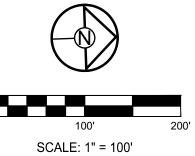


**Development Services Department** Lee's Summit, Missouri 06/20/2023



## NOTES:

- 1. SEE SHEET 4 FOR EROSION CONTROL NOTES, LEGEND AND
- STAGING CHART.
- 2. SEDIMENT BASIN #2 SHALL BE INSTALLED AND UTILIZED UNTIL SUCH TIME THAT THE 20' D/E DOWNSTREAM OF SEDIMENT BASIN #3 IS ACQUIRED. UPON DEDICATION OF SAID 20' D/E SEDIMENT BASIN #3 SHALL BE INSTALLED AND SEDIMENT BASIN #2 CONVERTED TO AN EWDB.



PREPARED BY:

MARK ALLEN BREUER MOMBER PE-2009007268

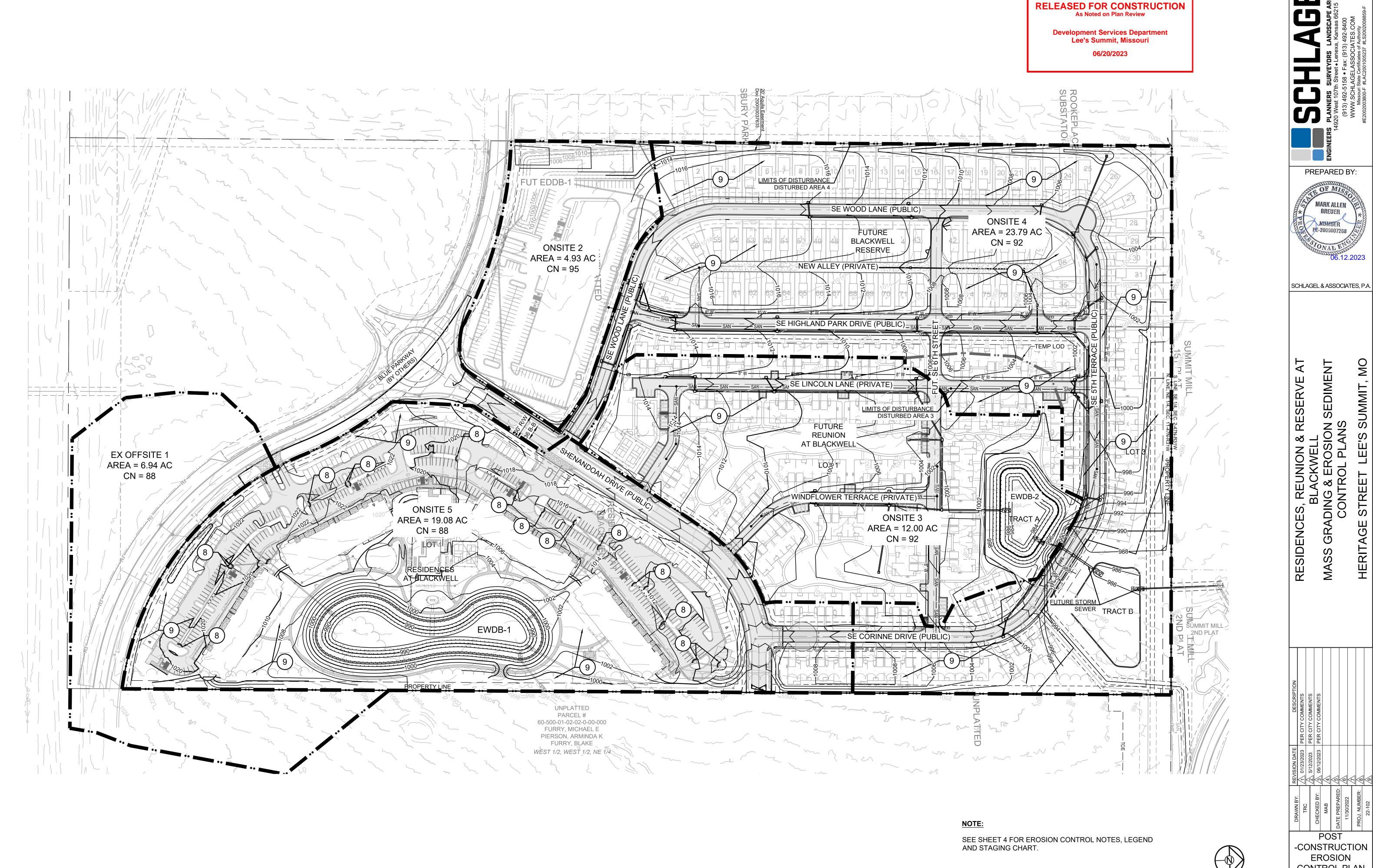
SCHLAGEL & ASSOCIATES, P.A.

SEDIMENT VION & RESERVE F

DENCES, REUNI BLACKA GRADING & EF CONTROL

RESIDENCES,

**EROSION CONTROL PLAN** 

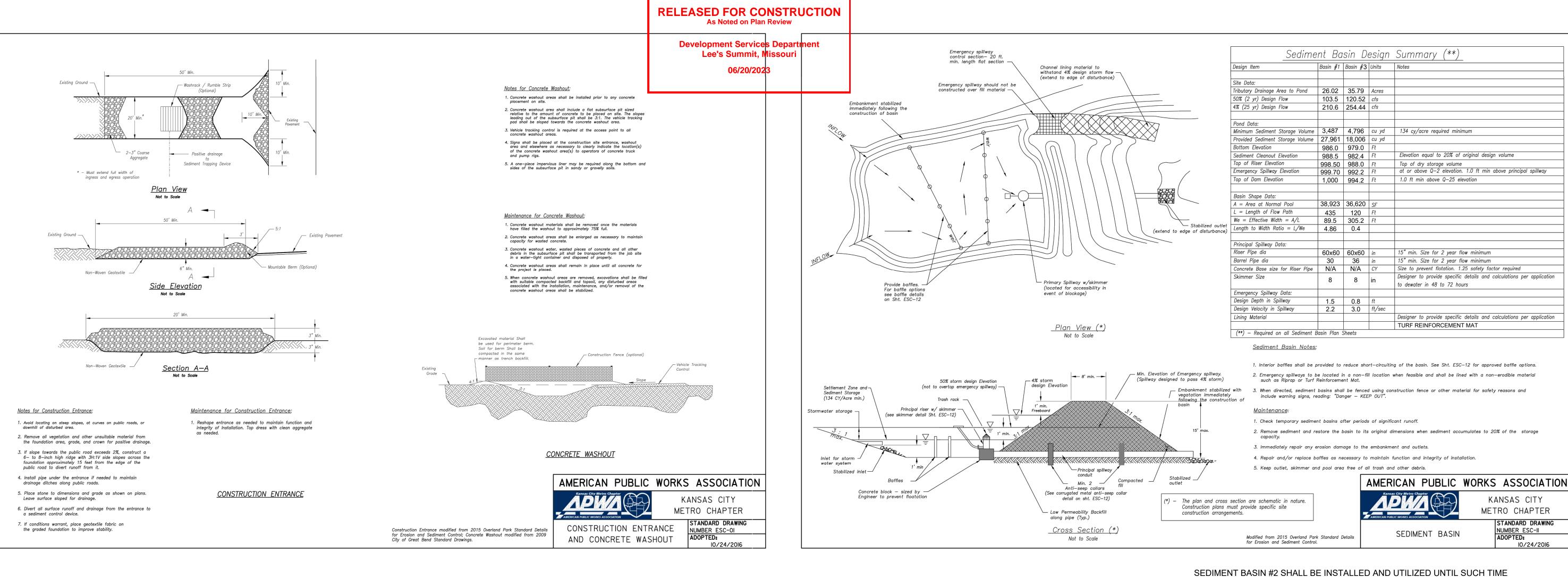


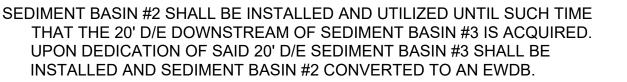
MUMBER PE-2009007268

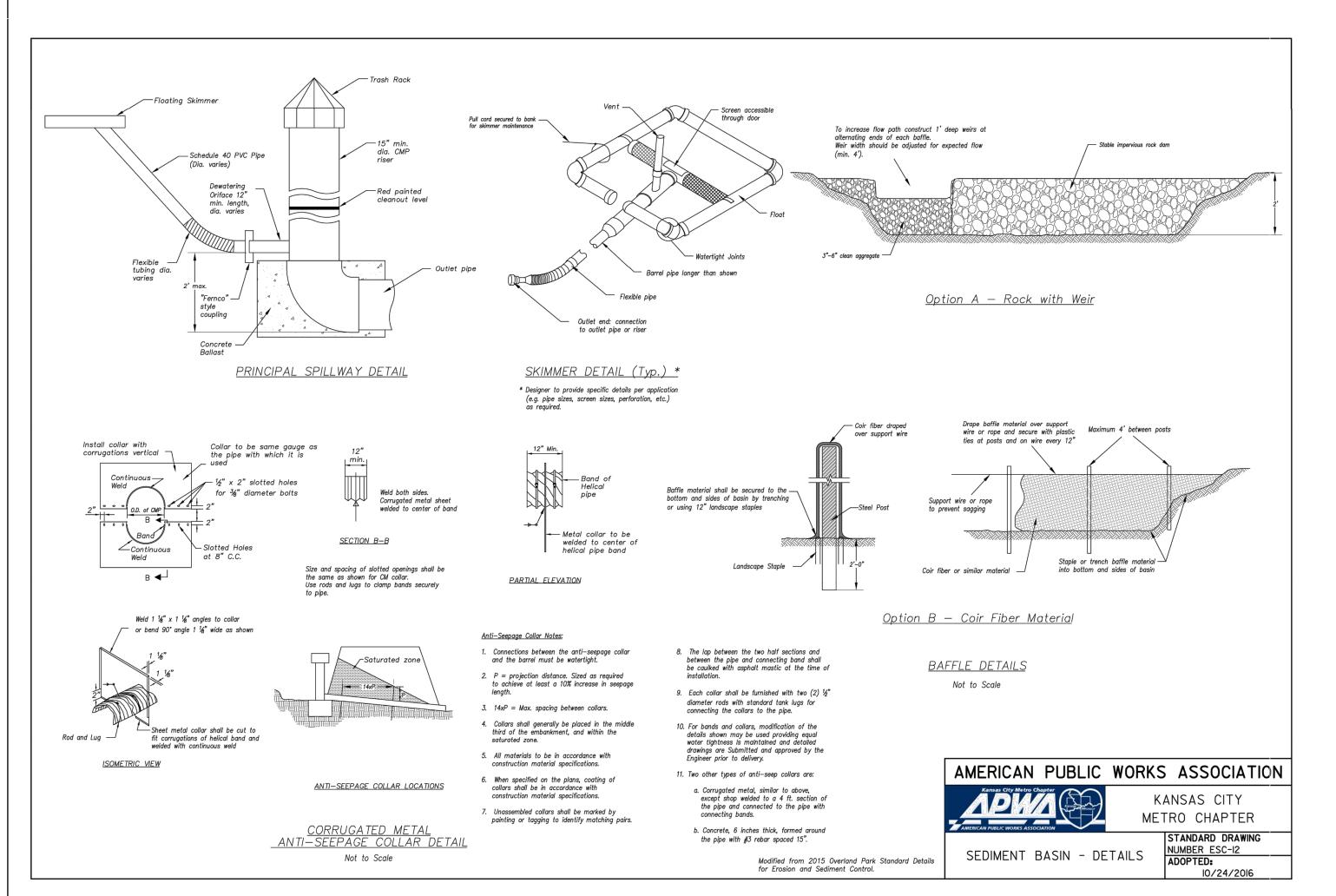
CONTROL PLAN

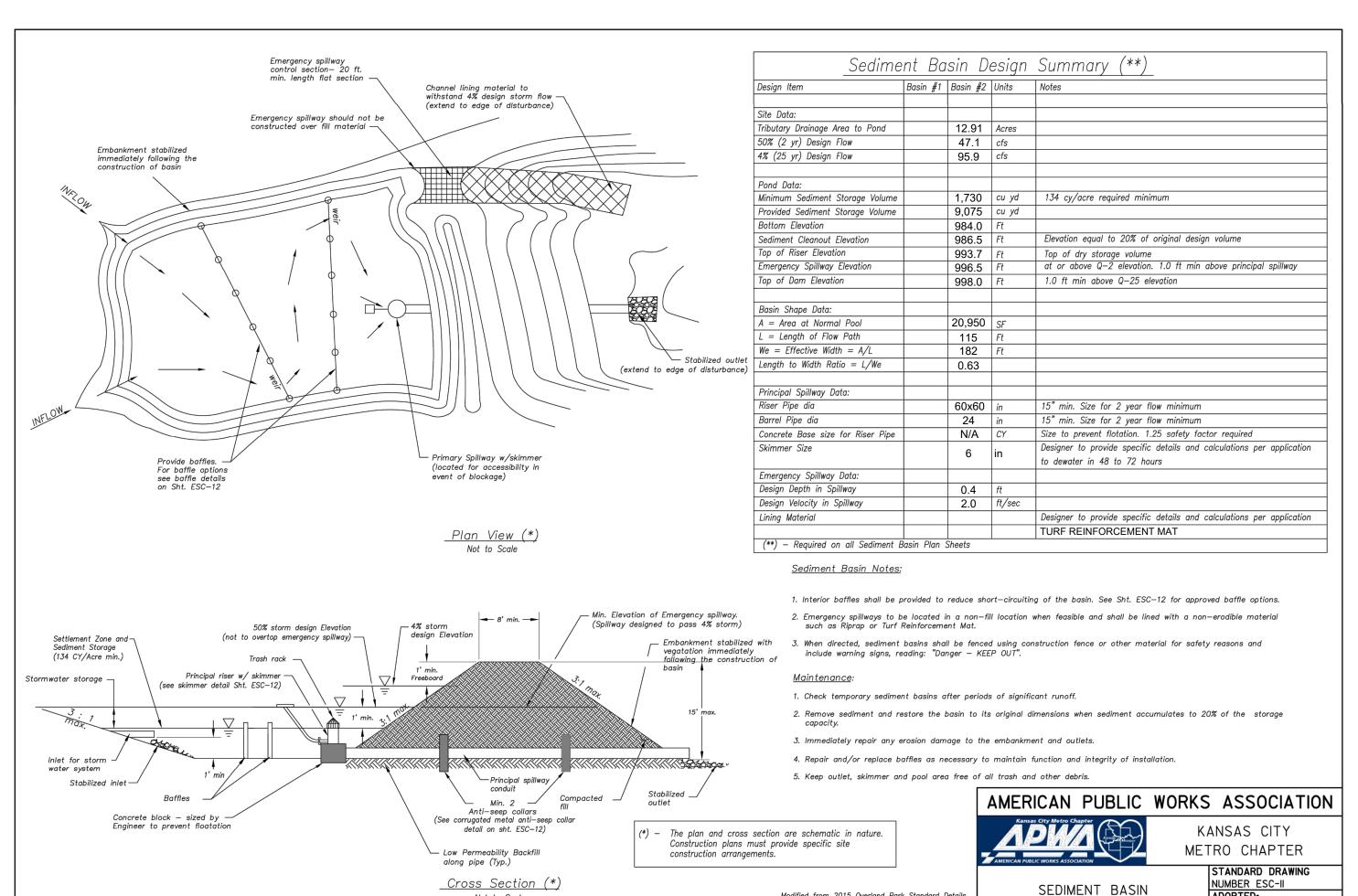
SHEET

SCALE: 1" = 100'









Not to Scale

Modified from 2015 Overland Park Standard Details



SERVE DIME S RE NS NS RADING & EF CONTROL , REUN BLACK RESIDENCES

KANSAS CITY

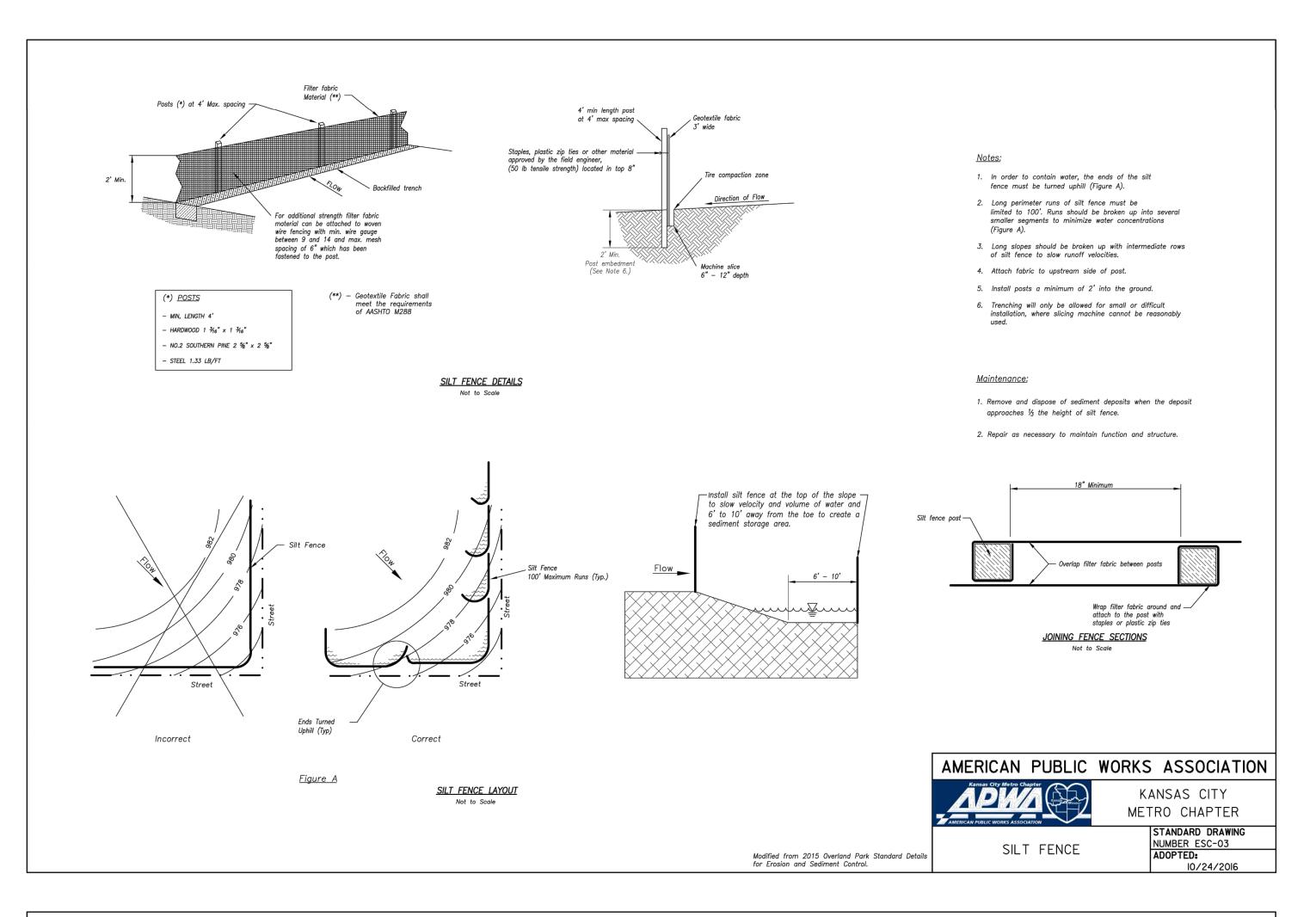
METRO CHAPTER

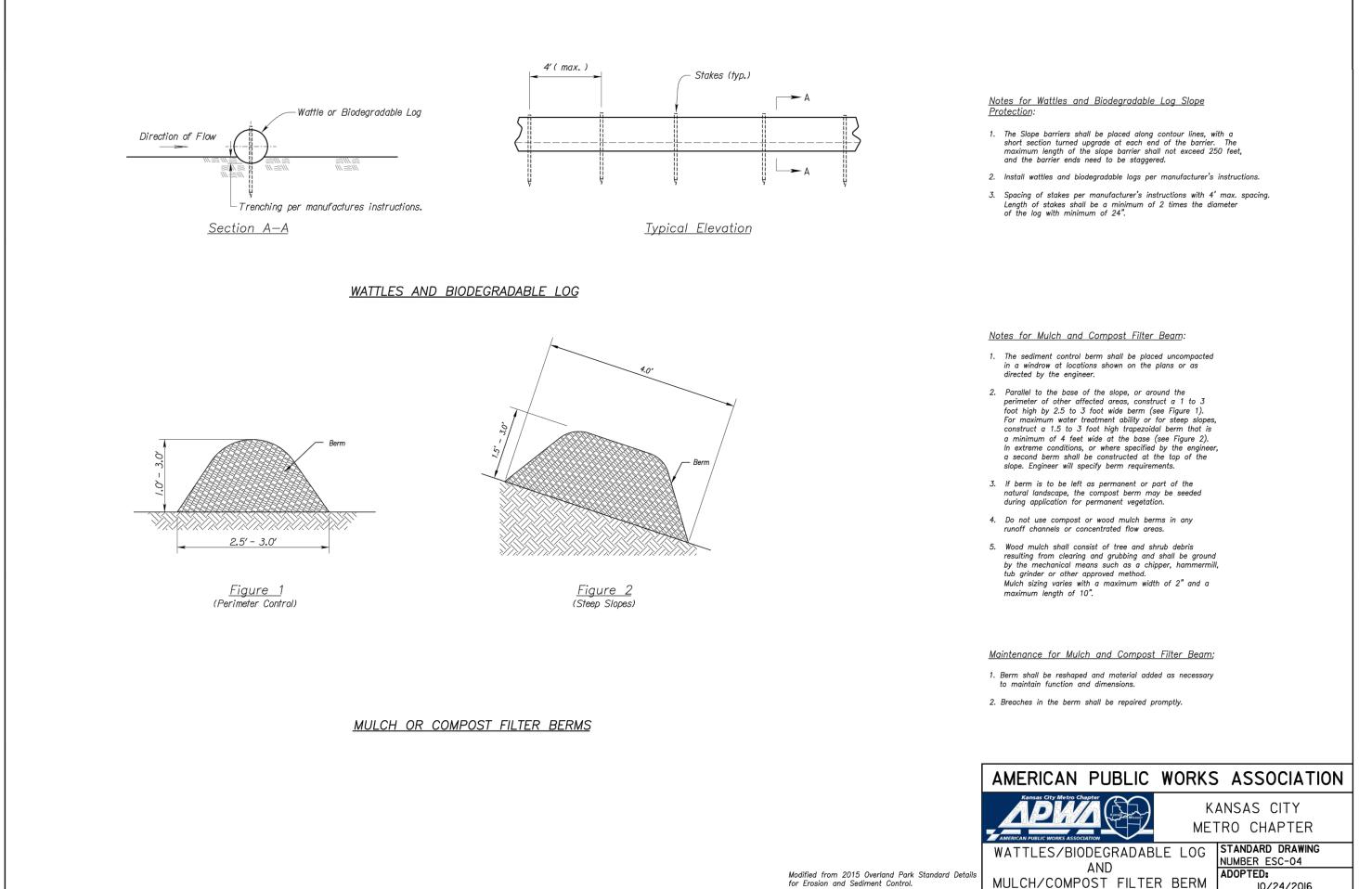
NUMBER ESC-II

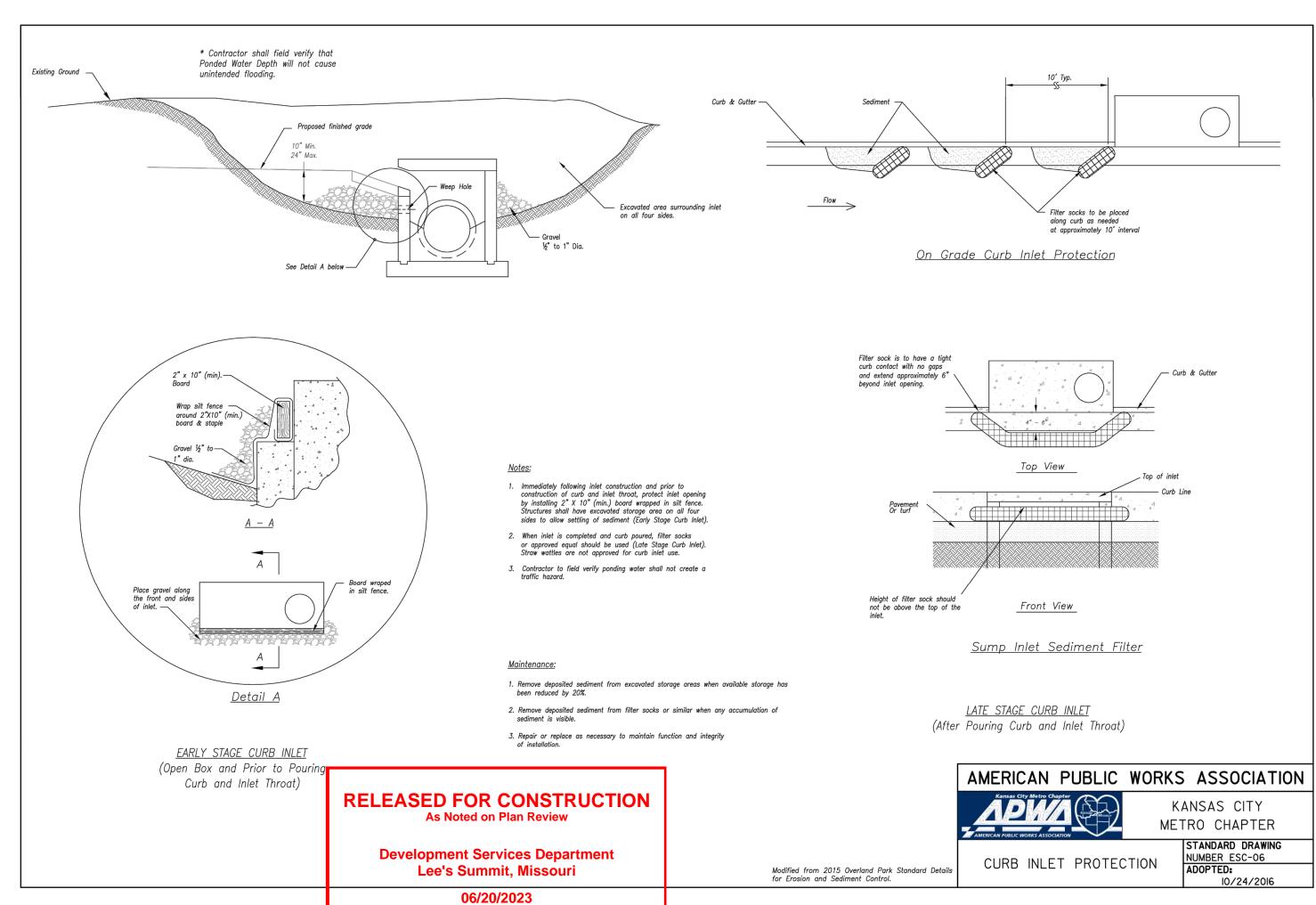
STANDARD DRAWING

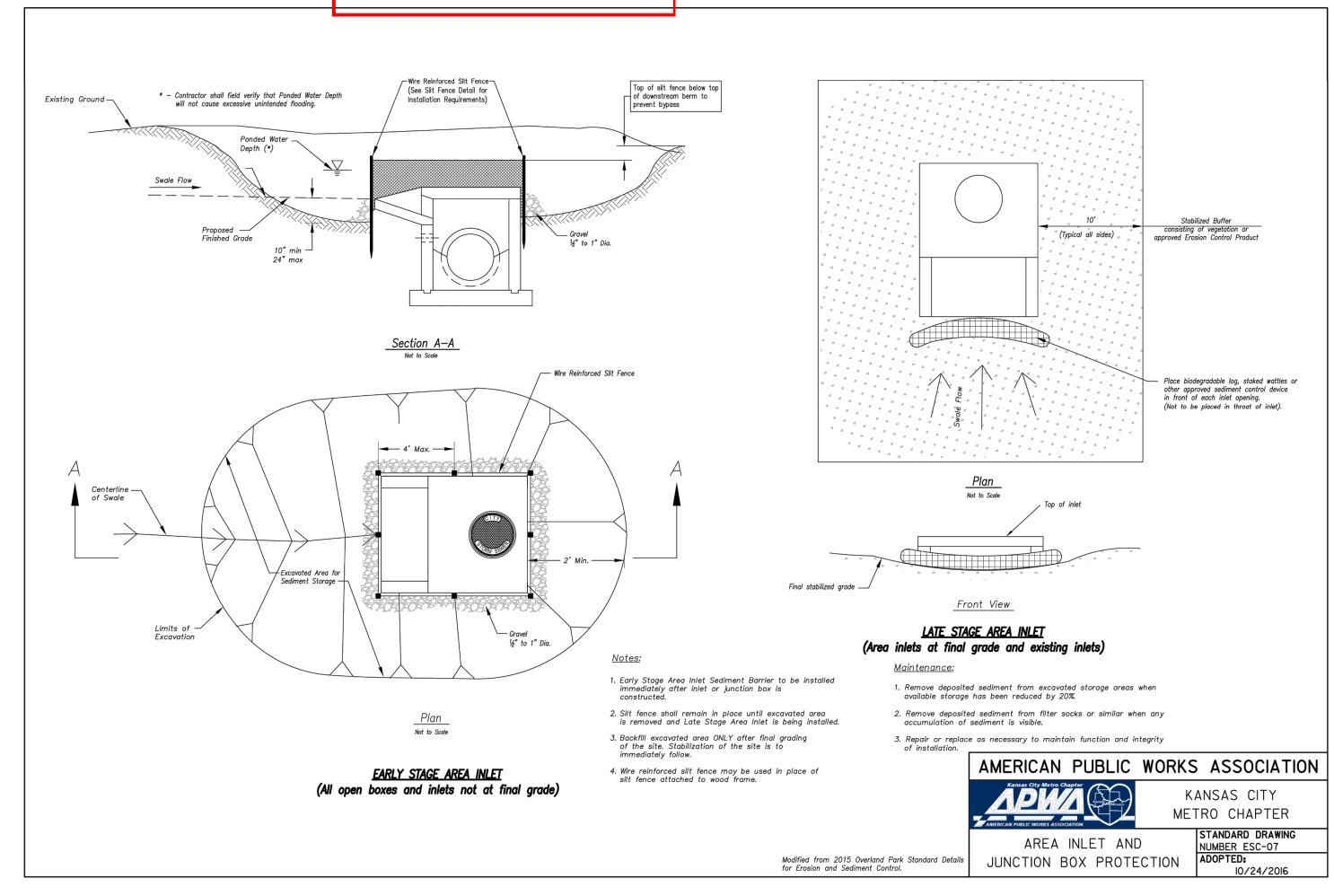
10/24/2016

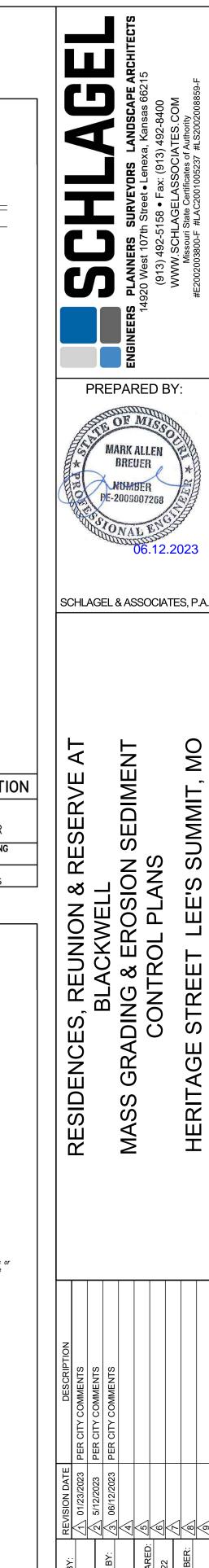
**EROSION** CONTROL **DETAILS** 



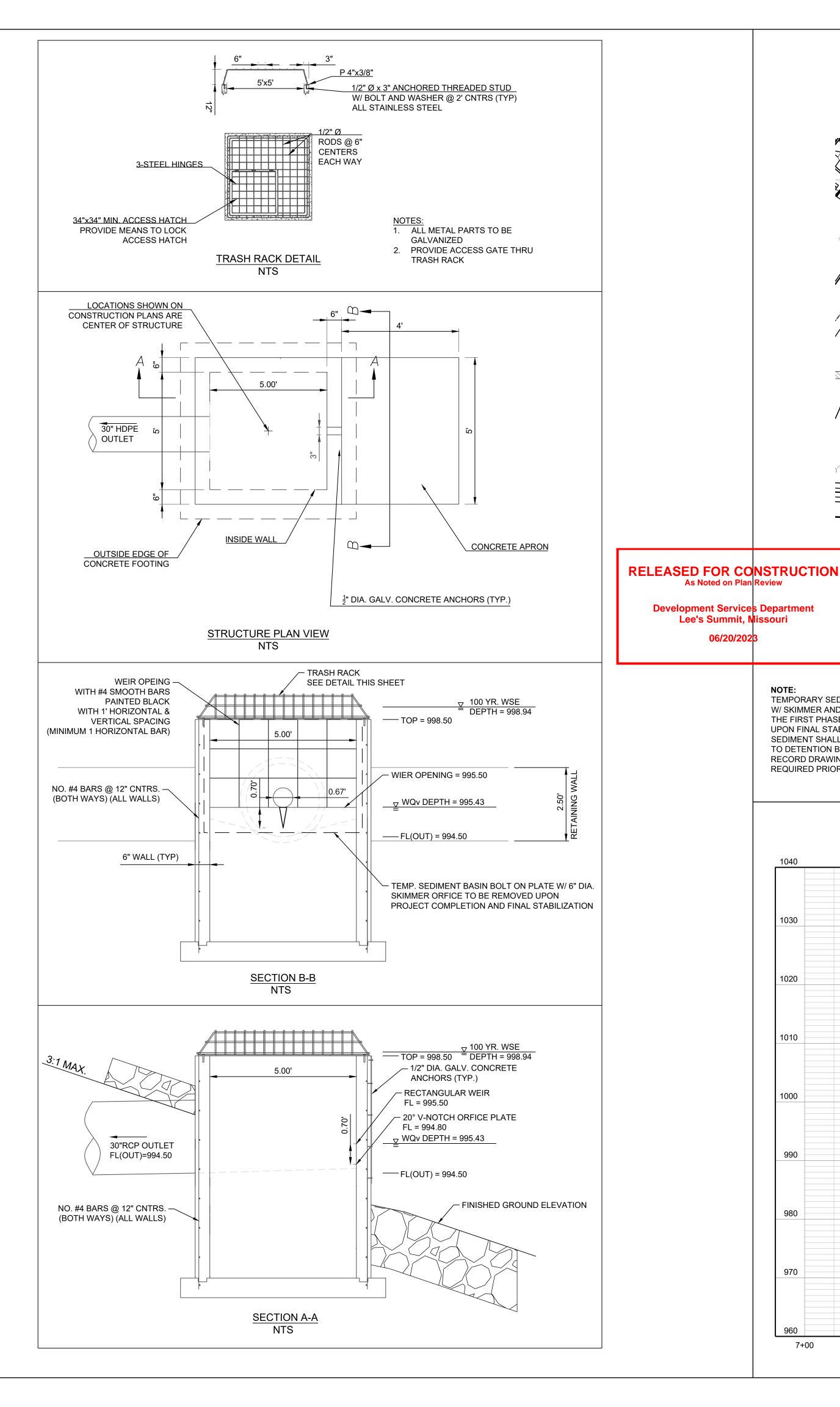




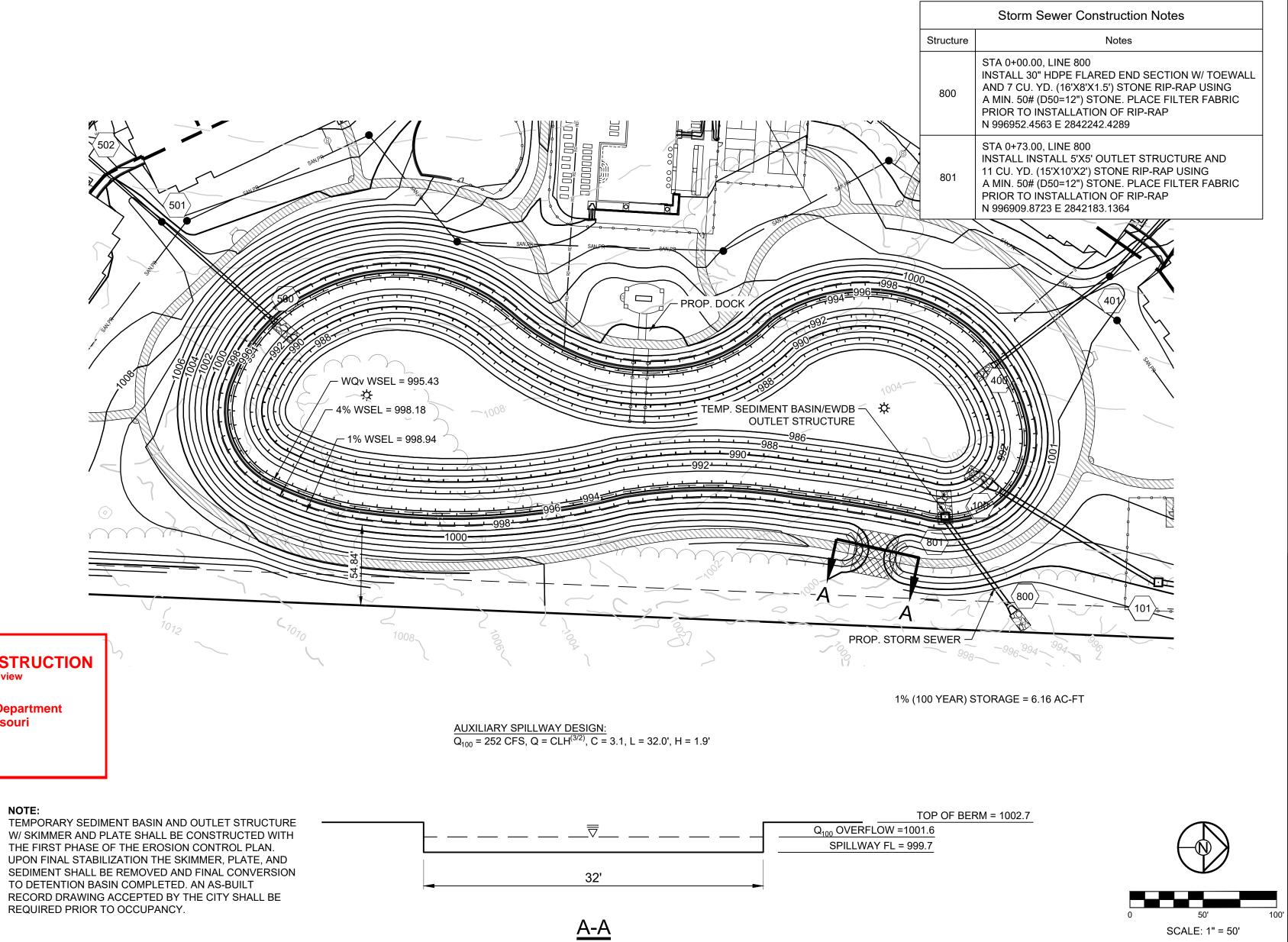


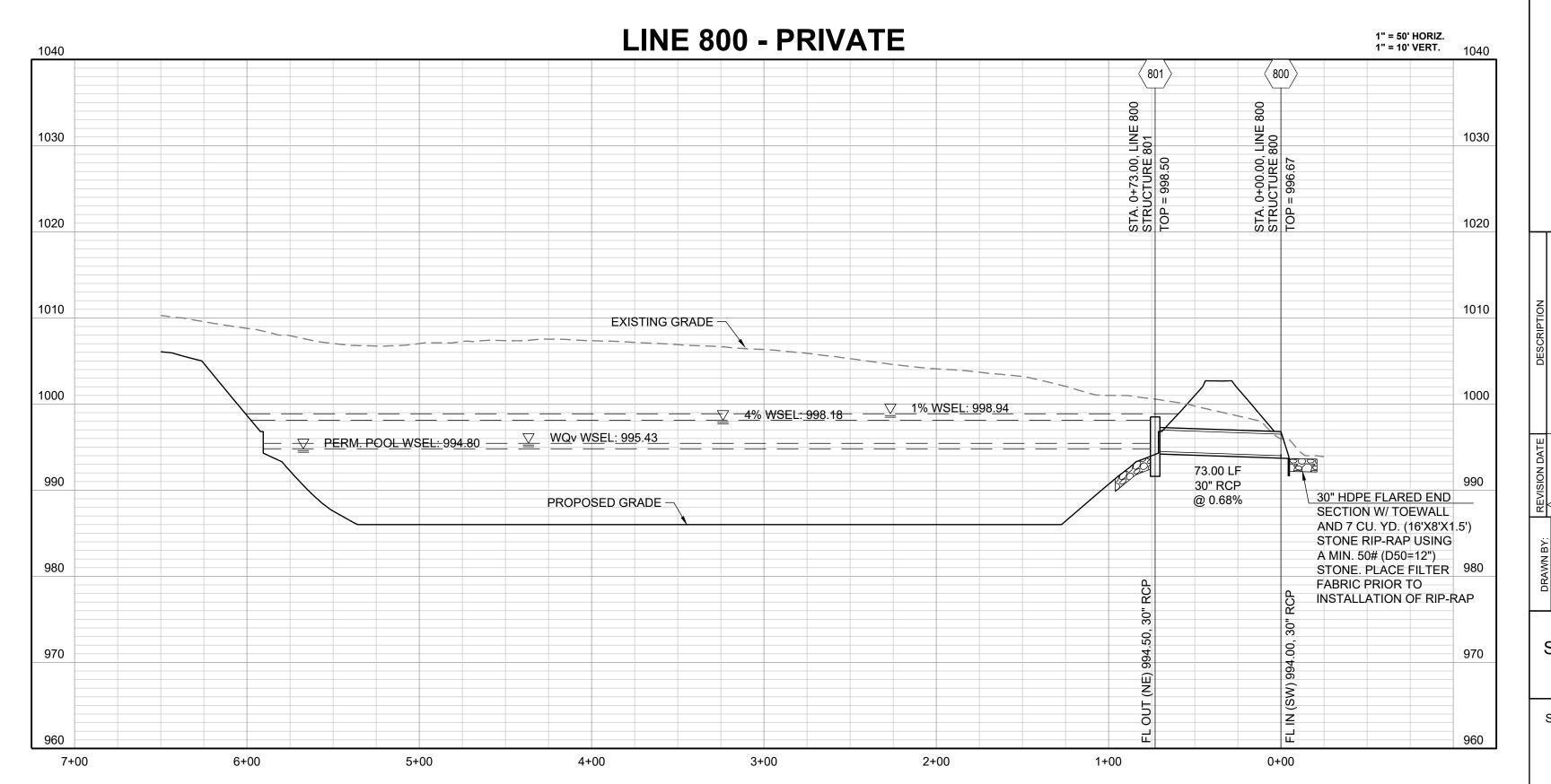


**EROSION** CONTROL **DETAILS** 



As Noted on Plan Review





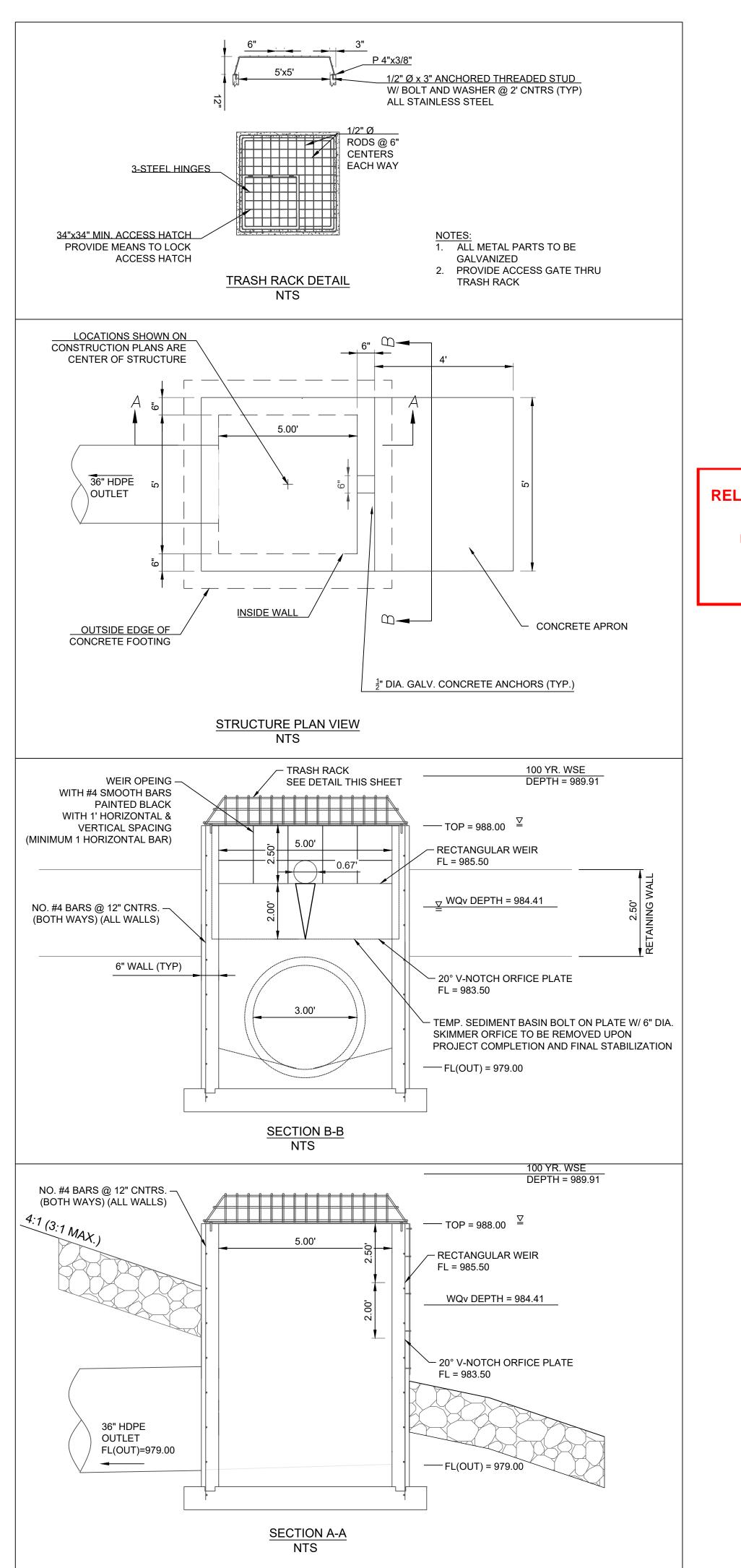
PREPARED BY: MARK ALLEN BREUER MUMBER 92X PE-2009007268 /5

SCHLAGEL & ASSOCIATES, P.A.

T BLACKWELL SERVE DIMENT REG REUNION & & EROSION &

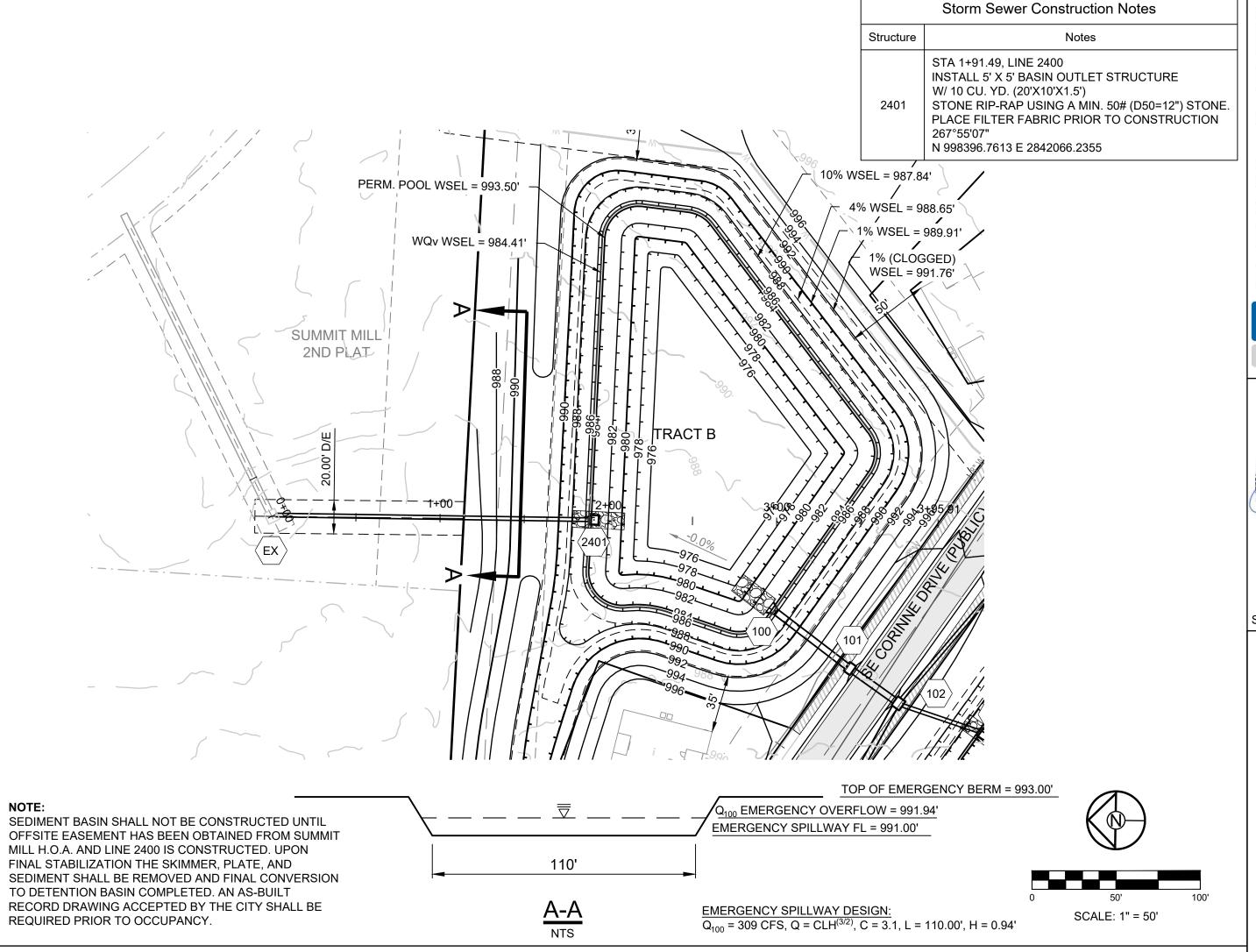
RESIDENCES, I MASS GRADING 8

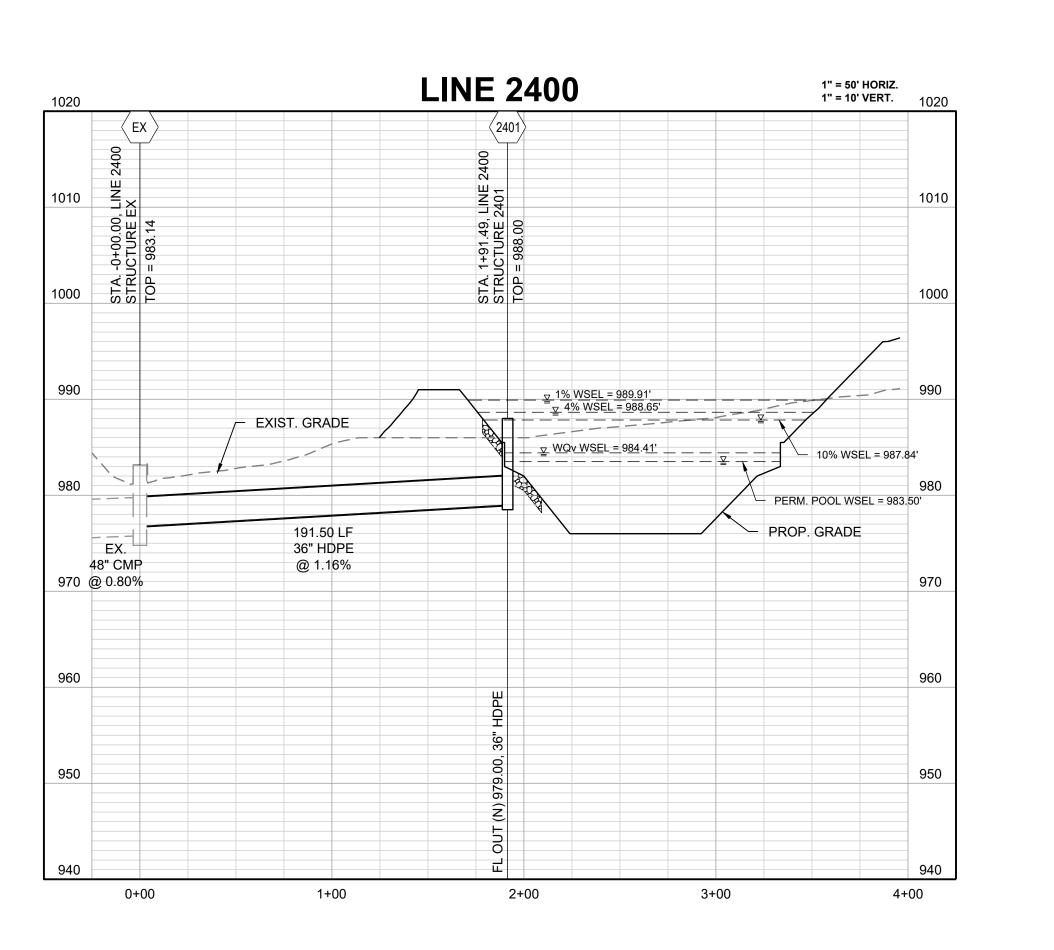
OUTLET STRUCTURE 801



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> **Development Services Department** Lee's Summit, Missouri 06/20/2023





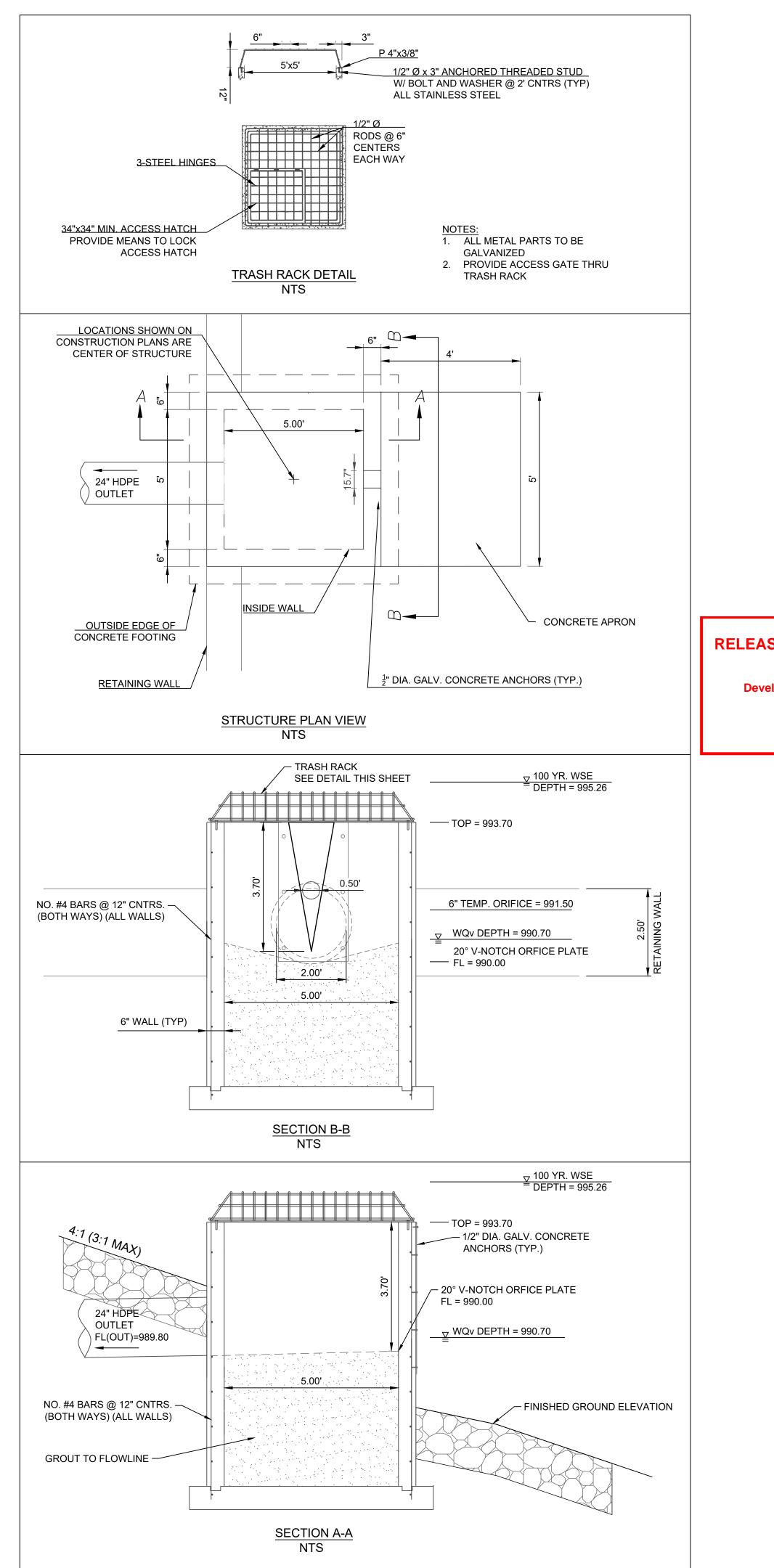
PREPARED BY: MARK ALLEN BREUER WOMBER DE-2009007268

SCHLAGEL & ASSOCIATES, P.A.

AT BLACKW CONTROL I RESERVE A REUNION & | & EROSION \$

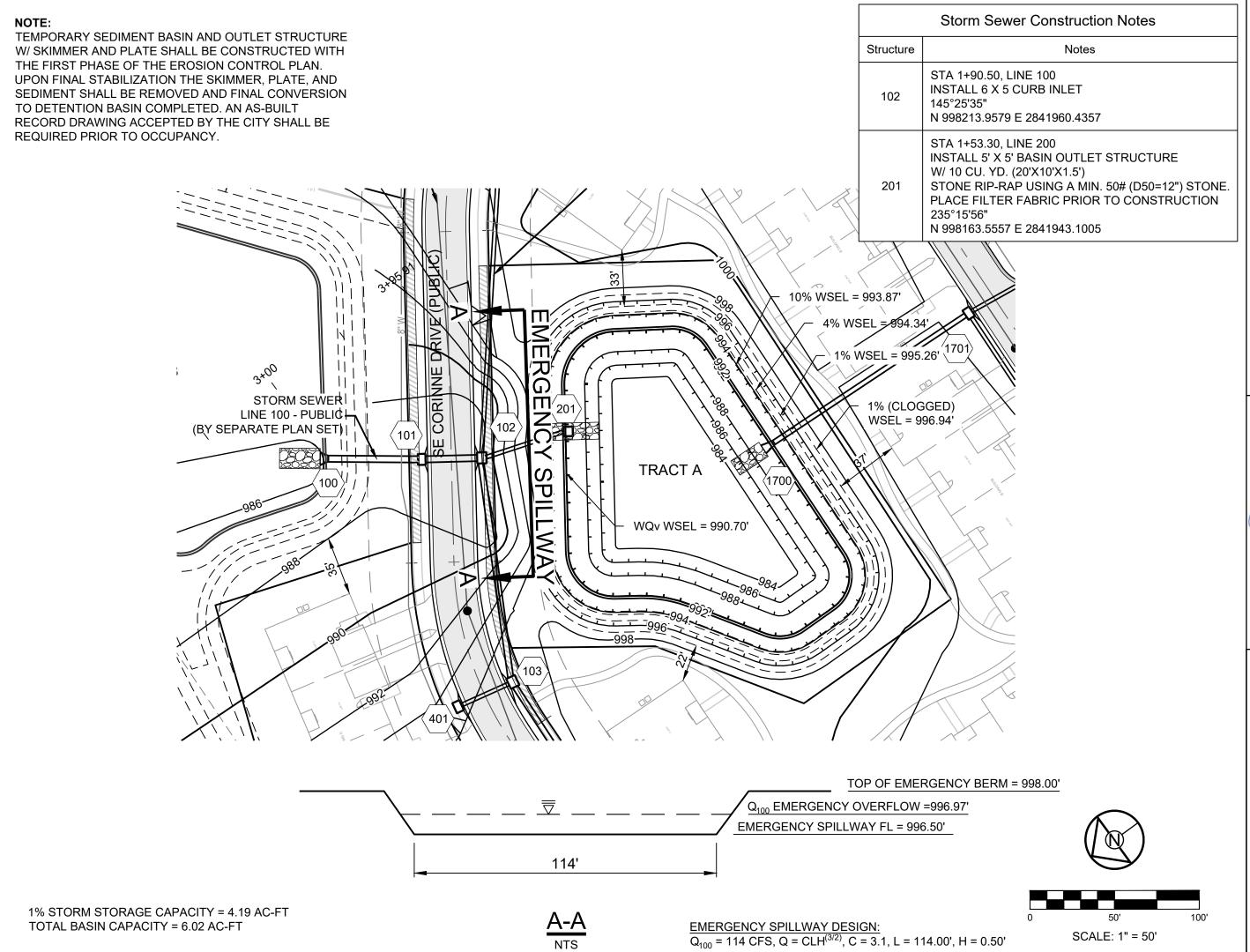
RESIDENCES, I MASS GRADING

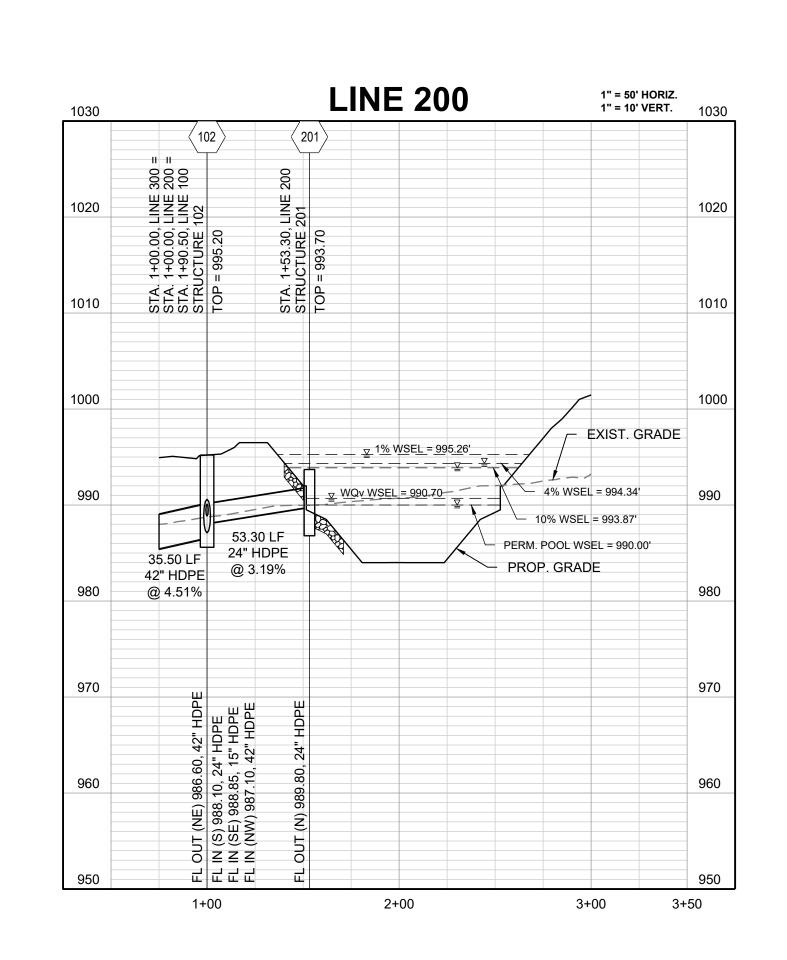
OUTLET STRUCTURE 2401



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PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

AT BLACKW CONTROL I

RESERVE A SE EUNION & EROSION RESIDENCES, MASS GRADING

OUTLET STRUCTURE 201