GAS METER GAS RISER

GAS MANHOLE

GAS REGULATOR

FIBER PEDESTAL

STORM MANHOLE

STORM GRATE

LIGHT POLE

BUSH

POWER POLE

EVERGREEN TREE

DECIDUOUS TREE

TREE TO BE REMOVED

CABLE BOX

CABLE VAULT

TELEVISION PEDESTAL

TELEPHONE PEDESTAL

POWER POLE W/ LIGHT

TRAFFIC SIGNAL POLE
TRAFFIC SIGNAL CONTROL BOX
TS TRAFFIC SIGNAL PEDESTAL

© ELECTRIC MANHOLE
EM ELECTRIC METER
ER ELECTRIC RISER

E ELECTRIC BOX

ELECTRIC CABINET

ELECTRIC JUNCTION BOX

OSPH SPRINKLER HEAD

MSCV SPRINKLER CONTROL VALVE

WATER METER PIT

FIRE HYDRANT

WM WATER METER

XW WATER VALVE

○FP FLAG POLE

○ SIGN

BOLLARD

WOOD POST

STEEL POST

COLUMN

BORE HOLE
 ▲CTL SURVEY CONTROL POINT
 ▲ SURVEY BENCHMARK

SURVEY BENCHMARK

SURVEY TEMPORARY BENCHMARK

SECTION LINE
PROPERTY LINE
CENTER LINE
PROPOSED ROW LINE
PROPOSED ROW LINE
UTILITY EASEMENT
SISTING CONTOUR
SISTING CONTOUR
SISTING CONTOUR
PROPOSED MINOR CONTOUR
PROPOSED MAJOR CONTOUR
SISTING TELL
EXISTING SANITARY LINE
SISTING STORM LINE
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING WATER LINE
EXISTING CHAIN LINK FENCE

EXISTING CHAIN LINK FENCE

EXISTING WOOD PRIVACY FENCE

EXISTING OVERHEAD ELECTRIC

EXISTING PIPE LINE

CONSTRUCTION LIMITS

— — — TEE— — — TEMPORARY CONSTRUCTION EASEMENT

PROPOSED CHAIN LINK FENCE

PROPOSED WOOD PRIVACY FENCE

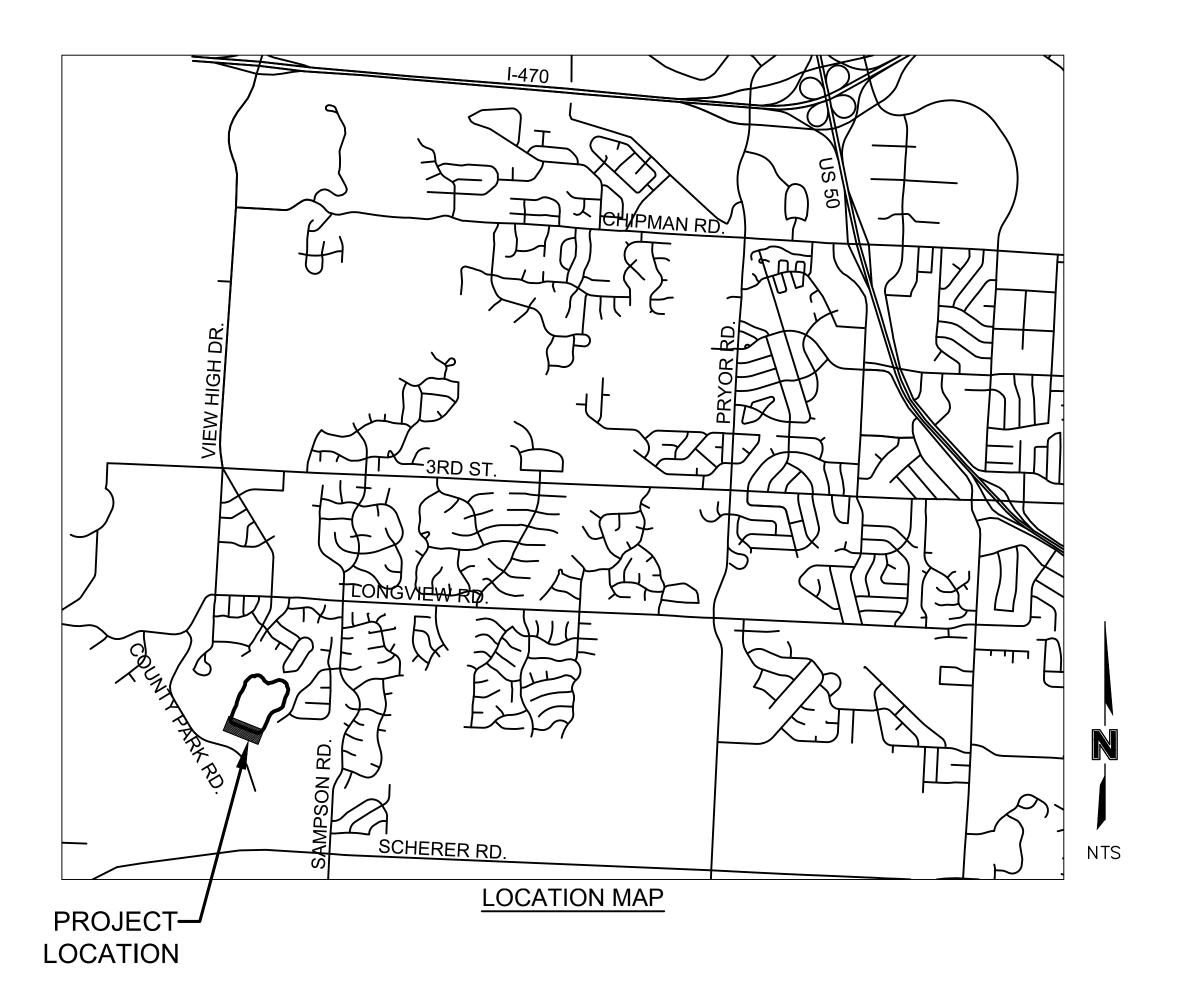
FXISTING TREFLINE

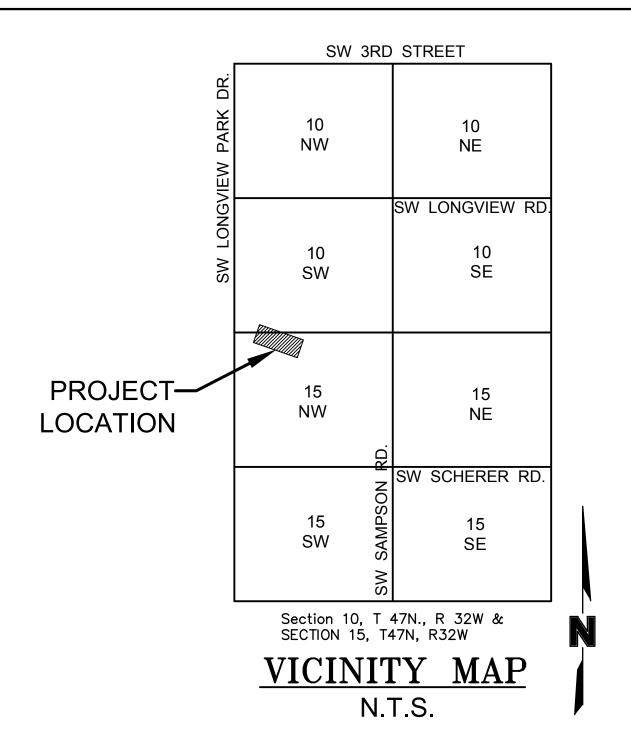
PROPOSED STORM SEWER ID

PROPOSED HANDRAIL

FINAL PLANS FOR OLD LONGVIEW LAKE DAM & SPILLWAY IMPROVEMENTS

LOCATED IN THE SW QTR. SECTION 10, TOWNSHIP 47N, RANGE 32W AND THE NW QTR. SECTION 15, TOWNSHIP 47N, RANGE 32W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI





	INDEX OF SHEETS
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1	TITLE SHEET
2	GENERAL NOTES AND SUMMARY OF QUANTITIES
3	GENERAL LAYOUT PLAN
4	DRAINAGE AREA MAP
5	DAM PLAN & PROFILE
6	DAM CROSS SECTIONS
7	DAM CROSS SECTIONS
8	DAM CROSS SECTIONS
9	DAM CROSS SECTIONS
10	CHANNEL PLAN & PROFILE
11	CHANNEL CROSS SECTIONS
12	CHANNEL CROSS SECTIONS
13	CONCRETE CHANNEL DETAIL
14	ENERGY DISSIPATION BASIN
15	OVERALL GRADING PLAN
16	LAKE SEDIMENT REMOVAL PLAN
17	SEDIMENT FOREBAY PLAN
18	SEDIMENT REMOVAL EROSION CONTROL PLAN
19	SURFACE RESTORATION AND EROSION CONTROL PLAN
20	EROSION CONTROL DETAILS
21	EROSION CONTROL DETAILS

UTILITY SERVICE NUMBERS

NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800

NAME: LEE'S SUMMIT WATER & SERVICES

DEPARTMENT PHONE: 816-969-1940

NAME: MISSOURI GAS ENERGY PHONE: 816-756-5252

NAME: AT&T PHONE: 800-286-8313

NAME: KCP&L PHONE: 816-471-5275

NAME: TIME WARNER CABLE: 816-358-5360

NAME: GOOGLE FIBER PHONEI: 877-454-6959



THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!

PREPARED & SUBMITTED BY:

OLSSON ASSOCIATES
7301 W. 133RD STREET, SUITE 200
OVERLAND PARK, KANSAS 66213

BRIAN H. LADD, P.E.

I CERTIFY THESE PLANS WERE PREPARED BY ME OR UNDER MY IMMEDIATE PERSONAL SUPERVISION.

DATE

ASSOCIATE



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REVISIONS DESCRIPTION					
DATE					
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D LONGVIEW LAKE
PILLWAY IMPROVEMENTS

OLD LONGV DAM & SPILLWAY S SUMMIT, MISSOURI

> SHEET I OF 21

GENERAL NOTES:

- 1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE LEE'S SUMMIT, MISSOURI DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.
- 2. ALL MANHOLES, CATCH BASINS, UTILITY VALVES, AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- 3. ALL SIGNS (I.E. STREET NAME AND STOP SIGNS) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, DESIGN AND CONSTRUCTION MANUAL, PRIOR TO SUBSTANTIAL COMPLETION. .
- 4. THE ASPHALTIC CONCRETE SURFACES ON ALL PERMITTED STREETS SHALL BE VIRGIN MATERIAL.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PLANS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION.
- 6. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.
- 7. CONTRACTOR SHALL PROVIDE EARTHWORK AND MATERIAL TESTING TO COMPLY WITH THE STANDARD SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OR AS REQUIRED BY THE CITY'S FIELD REPRESENTATIVE.

SITE DISTURBANCE NOTES:

1. THE INTENT OF THIS EROSION CONTROL PLAN IS TO ASSIST THE CONTRACTOR IN HIS RESPONSIBILITY TO PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF SOIL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY, SO THAT THE OWNER OR HIS AGENT CAN REVIEW THE CONTRACTOR'S PROPOSED METHOD OF

THIS PLAN INDICATES THE CRITICAL AREA(S) OF CONCERN AND THESE AREA(S) WILL BE CONTROLLED AS A MINIMUM. THE CONTROL MAY CONSIST OF TEMPORARY CONTROL MEASURES AS SHOWN ON THE PLANS OR ORDERED BY THE OWNER DURING THE LIFE OF THE CONTRACT TO CONTROL EROSION OR WATER POLLUTION, THROUGH THE USE OF BERMS, DIKES, DAMS, SEDIMENT BASINS, FIBER MATS, NETTING, GRAVEL, MULCHES, GRASSES, SLOPE DRAINS, DIVERSION SWALES OR OTHER EROSION CONTROL DEVICES OR METHODS. THE OWNER HAS THE AUTHORITY TO LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY THE CONSTRUCTION OPERATIONS AND TO DIRECT THE CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, OR OTHER AREAS OF WATER IMPOUNDMENT OR CONVEYANCES.

THE TEMPORARY POLLUTION CONTROL PROVISIONS CONTAINED HEREIN SHALL BE COORDINATED WITH ANY PERMANENT EROSION CONTROL FEATURES SPECIFIED ELSEWHERE IN THE CONTRACT TO THE EXTENT PRACTICAL TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST CONSTRUCTION PERIOD.

2. THIS SEDIMENTATION CONTROL PLAN MAKES USE OF THE FOLLOWING **APPLICATIONS:**

PRESERVATION OF EXISTING VEGETATION

X SEDIMENT BARRIERS

X SEDIMENT TRAPS ____ INLET PROTECTION

OUTLET PROTECTION ____ SOIL RETAINING SYSTEMS

SLOPE DRAINS

x SUBSURFACE DRAINS

PHYSICAL DESCRIPTION OF EACH SPECIFIC SEDIMENT CONTROL DEVICE TO BE UTILIZED IS CALLED OUT ON THE PLANS WITH INSTALLATION PROCEDURES, CONSTRUCTION SPECIFICATIONS AND MAINTENANCE ARRANGEMENT AS CALLED FOR ON THE DETAIL SHEET. IN ADDITION TO THE MEASURES SPECIFIED, THE FOLLOWING GENERAL PRACTICES SHALL BE ADHERED TO WHEN APPLICABLE.

- A) CLEARING AND GRUBBING WITHIN 50' OF A DEFINED DRAINAGE COURSE SHOULD BE AVOIDED WHEN POSSIBLE. WHERE CHANGES TO A DEFINED DRAINAGE COURSE OCCUR, WORK SHOULD BE DELAYED UNTIL ALL MATERIALS AND EQUIPMENT NECESSARY TO PROTECT AND COMPLETE THE DRAINAGE CHANGE ARE ON SITE. CHANGES SHALL BE COMPLETED AS QUICKLY AS POSSIBLE ONCE THE WORK HAS BEEN INITIATED. THE AREA IMPACTED BY THE CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED OR PROTECTED FROM EROSION AS SOON AS POSSIBLE, AREAS WITHIN 50' OF A DEFINED DRAINAGE WAYS SHOULD BE RECONTOURED AS NEEDED OR OTHERWISE PROTECTED WITHIN FIVE (5) WORKING DAYS AFTER GRADING HAS CEASED.
- B) WHERE SOIL DISTURBING ACTIVITIES CEASE IN AN AREA FOR MORE THAN 14 DAYS, THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE EROSION CONTROL MEASURES. IF THE SLOPE OF THE AREA IS GREATER THAN 3:1 OR IF THE SLOPE IS GREATER THAN 3% AND GREATER THAN 150 FEET IN LENGTH, THEN THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE EROSION CONTROL MEASURES IF ACTIVITIES CEASE FOR MORE THAN SEVEN (7) DAYS.
- C) EXISTING VEGETATION SHALL BE PRESERVED TO THE EXTENT AND WHERE PRACTICAL. IN NO CASE SHALL DISTURBED AREAS REMAIN WITHOUT VEGETATIVE GROUND COVER FOR A PERIOD IN EXCESS OF 60 DAYS.
- D) ADDITIONAL SITE MANAGEMENT PRACTICES WHICH SHALL BE ADHERED TO DURING THE CONSTRUCTION PROCESS SHALL INCLUDE:

SOLID AND HAZARDOUS WASTE MANAGEMENT INCLUDING PROVIDING TRASH CONTAINERS AND REGULAR SITE CLEAN UP FOR PROPER DISPOSAL OF SOLID WASTE SUCH AS BUILDING MATERIAL, PRODUCT/MATERIAL SHIPPING WASTE, FOOD CONTAINERS AND CUPS, AND PROVIDING CONTAINERS FOR THE PROPER DISPOSAL OF WASTE PAINTS SOLVENTS, AND CLEANING COMPOUNDS.

PROVISIONS OF PORTABLE TOILETS FOR PROPER DISPOSAL OF SANITARY SEWAGE.

STORAGE OF CONSTRUCTION MATERIALS AWAY FROM DRAINAGE COURSES AND LOW

INSTALLATION OF CONTAINMENT BERMS AND USE OF DRIP PANS AT PETROLEUM PRODUCT AND LIQUID STORAGE TANKS AND CONTAINERS.

- 3. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED, OR SODDED, IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS ADOPTED BY THE REVIEWING GOVERNING AGENCY AND GOOD ENGINEERING PRACTICES. THIS SHALL BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER COMPLETING THE WORK, IN ANY AREA. IF THIS IS OUTSIDE OF THE SEEDING PERIOD, SILT BARRIERS OR OTHER SIMILARLY EFFECTIVE MEASURES SHALL BE PROVIDED UNTIL SUCH TIME THAT THE AREAS CAN BE SEEDED.
- 4. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL CURRENT STANDARDS AND SPECIFICATIONS ADOPTED BY THE REVIEWING GOVERNING AGENCY. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING ALL ADDITIONAL STANDARDS, SPECIFICATIONS OR REQUIREMENTS WHICH ARE REQUIRED BY GOVERNING AGENCIES (INCLUDING LOCAL, STATE AND FEDERAL AUTHORITIES) HAVING JURISDICTION OVER THE WORK PROPOSED BY THESE CONSTRUCTION DRAWINGS.
- 5. ALL EROSION CONTROL MEASURES, TEMPORARY OR PERMANENT, REQUIRE MAINTENANCE TO PRESERVE THEIR EFFECTIVENESS. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED IMMEDIATELY AFTER EACH HEAVY RAINSTORM AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY. ALL COSTS ASSOCIATED WITH THE REPAIR WORK INCLUDING RELATED INCIDENTALS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID FOR THE PROPOSED WORK.

1	ITEM	QUANTITY	UNIT
2	Clearing & Grubbing	1	LS
3	Erosion Control	1	LS
4	Concrete Channel	390	SY
5	Forebay Concrete	1015	SY
6	Weir Wall	1	EA
7	Toe Wall	2	EA
8	KDOT 1/4 Ton Riprap	1281	SY
9	MODOT Type 3 Ditch Liner	1796	SY
10	Propex Pyramat 25	2656	SY
11	Propex Landlok S2	3118	SY
12	Seeding	0.85	AC
13	Wetland Seeding Mix	3680	SY
14	4" Lateral Drain	370	LF
15	Estimated Non-shrink Grout	2.32	CY
16	Sediment Depth Markers	2	EA
17	Stone Outlets	134	CY
18	Structural Dam Cut	491	CY
19	Structural Dam Fill	3597	CY
20	Lake Sediment Removal Cut	46,333	CY
21	Lake Sediment Removal Fill	228	СҮ
22	Sediment Forebays Cut	2547	CY
23	Sediment Forebays Fill	296	CY

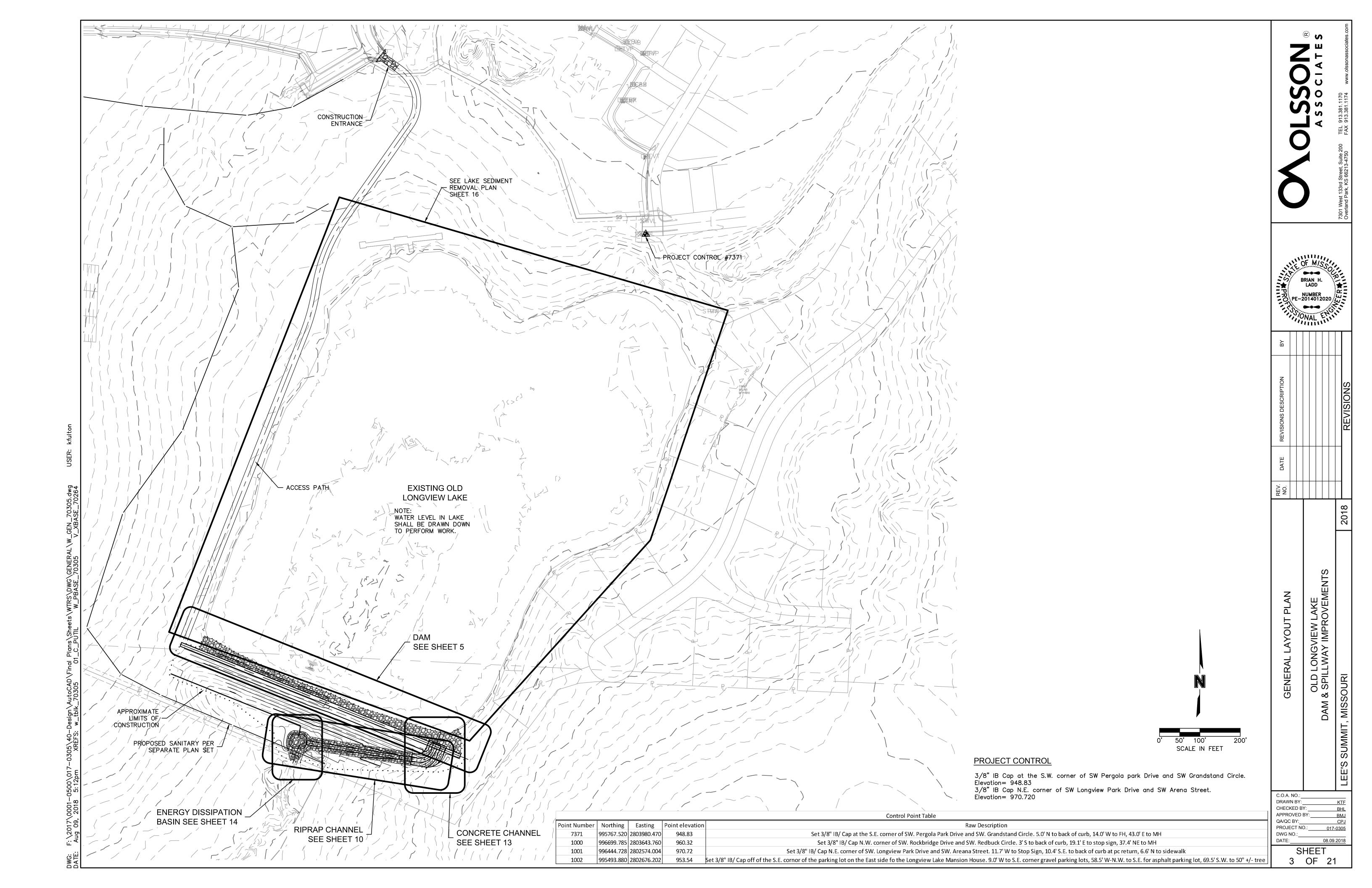
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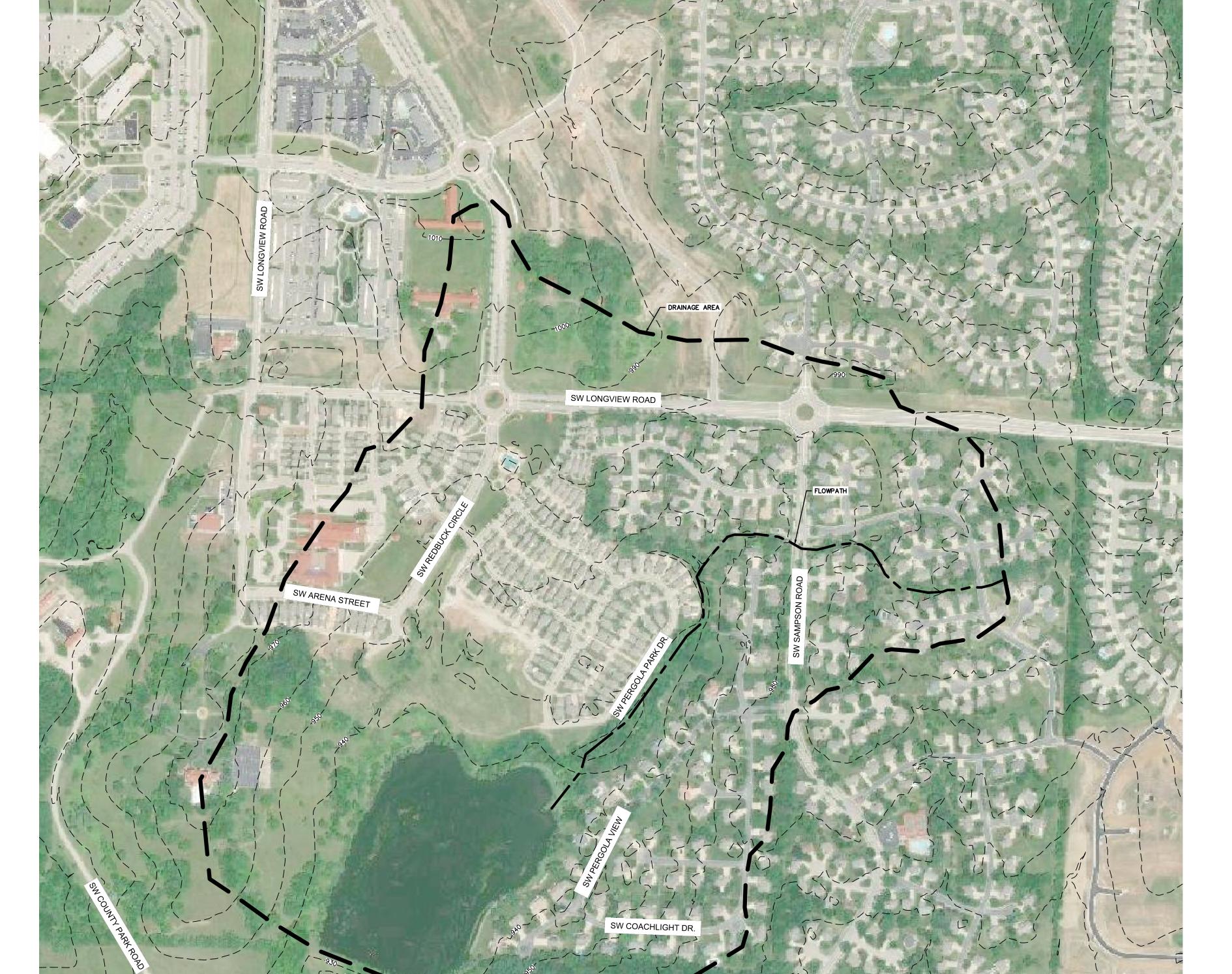
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> SHEET 2 OF 21





EXISTING TOP OF DAM

HYDRAULIC AND HYDROLOGIC DATA

DRAINAGE AREA — 207 AC
EXISTING CONDITIONS CURVE NUMBER — 86
FUTURE CONDITIONS CURVE NUMBER — 88
TIME OF CONCENTRATION — 16.5 MINUTES

RAINFALL (24 HOUR EVENT)							
RETURN EVENT (YR)	RAINFALL DEPTH (IN)						
2	3.50						
10	5.30						
100	7.70						

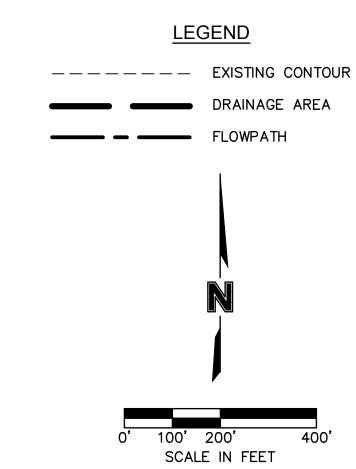
DESIGN ROUTING INFORMATION - FUTURE CONDITIONS

100—YEAR 24 HOUR PROPOSED SPILLWAY ELEVATION — 929.00 PROPOSED TOP OF DAM — 934.5

PEAK INFLOW — 1,440 CFS PEAK OUTFLOW — 312 CFS PEAK WATER SURFACE ELEVATION — 931.52 FEET

EMERGENCY SPILLWAY ROUTING 100-YEAR 24 HOUR

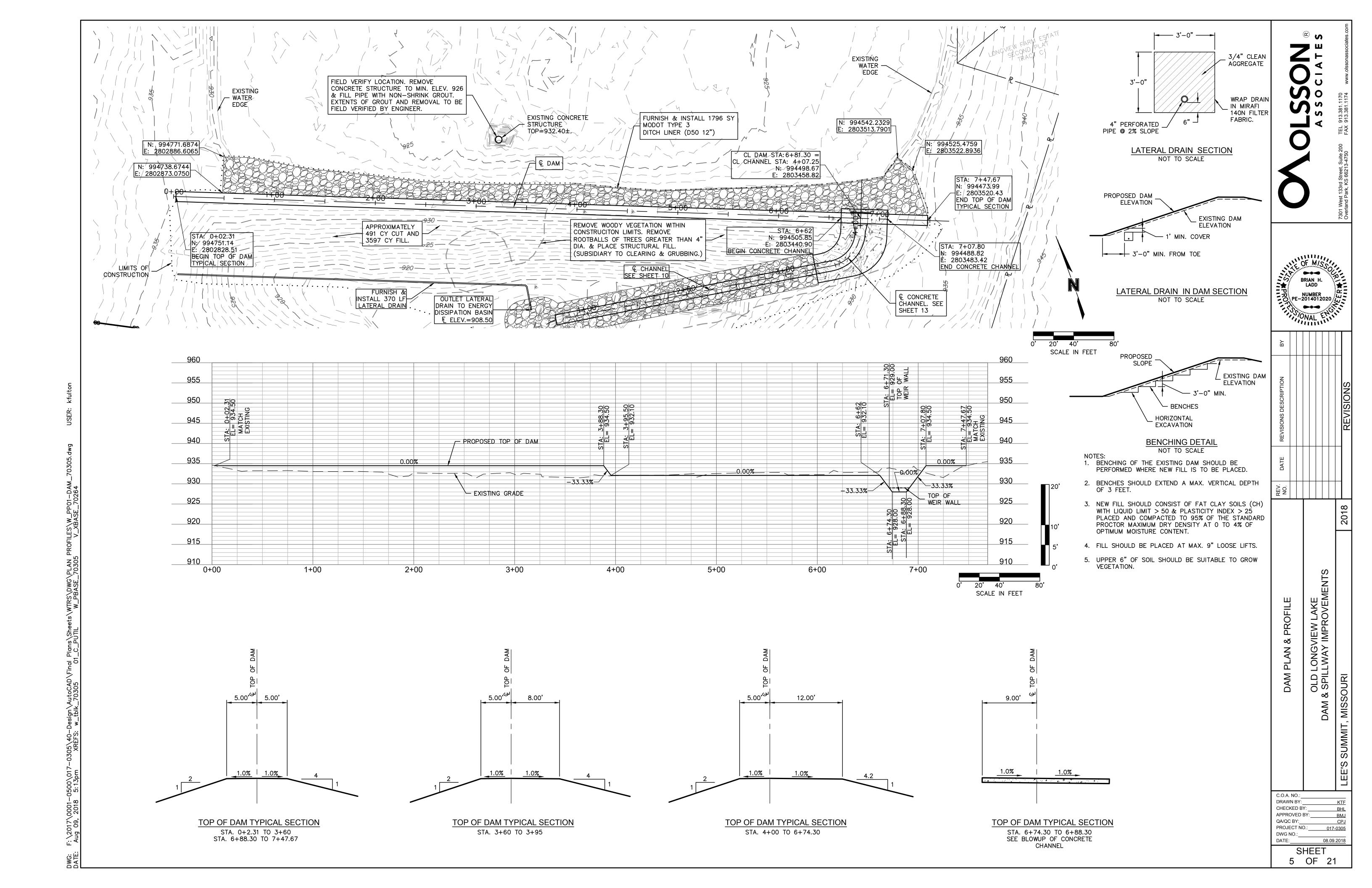
EMERGENCY SPILLWAY ELEVATION — 932.1 FEET PEAK FLOW — 1,440 CFS PEAK WATER SURFACE ELEVATION — 933.43 FEET

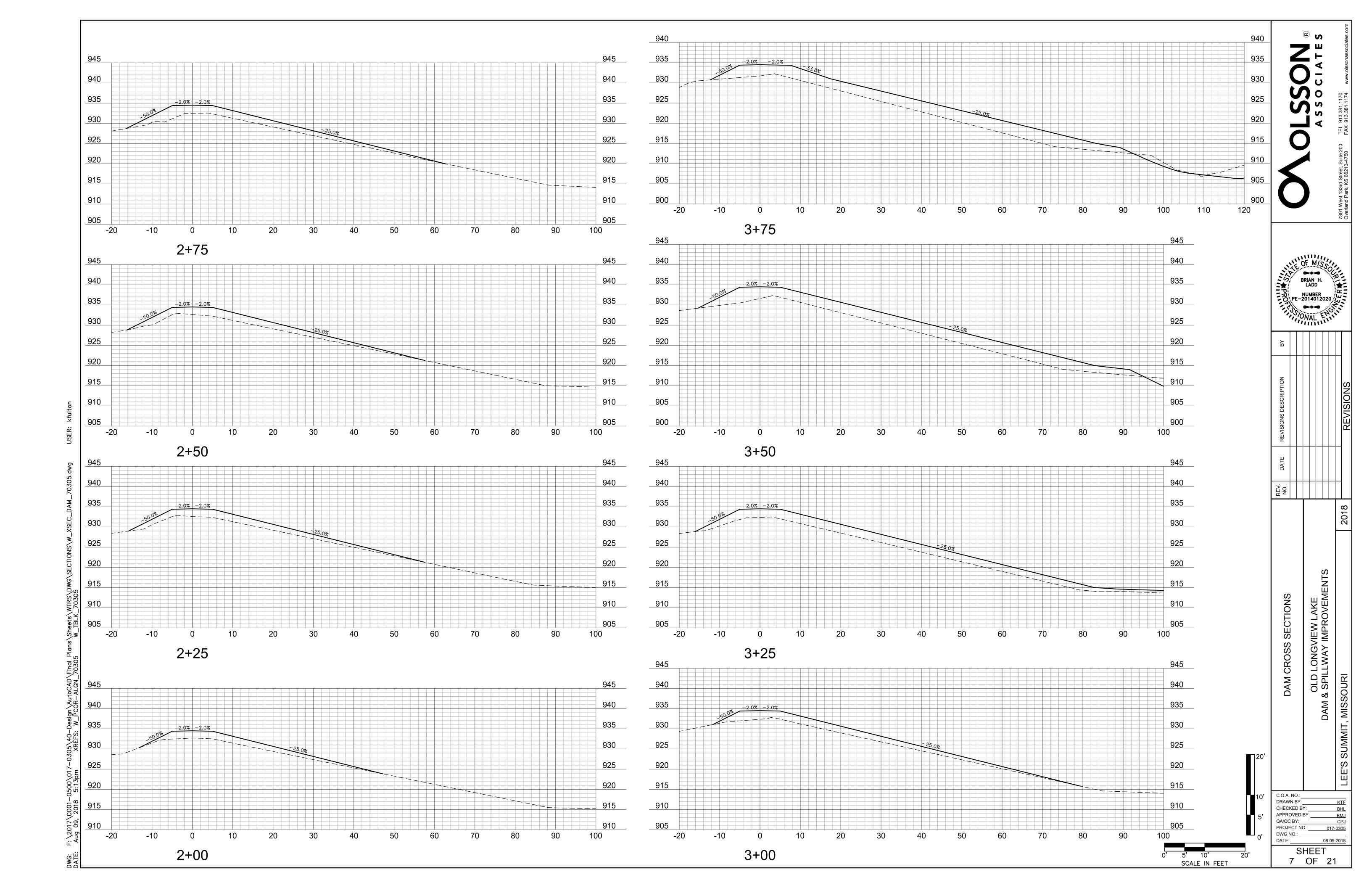


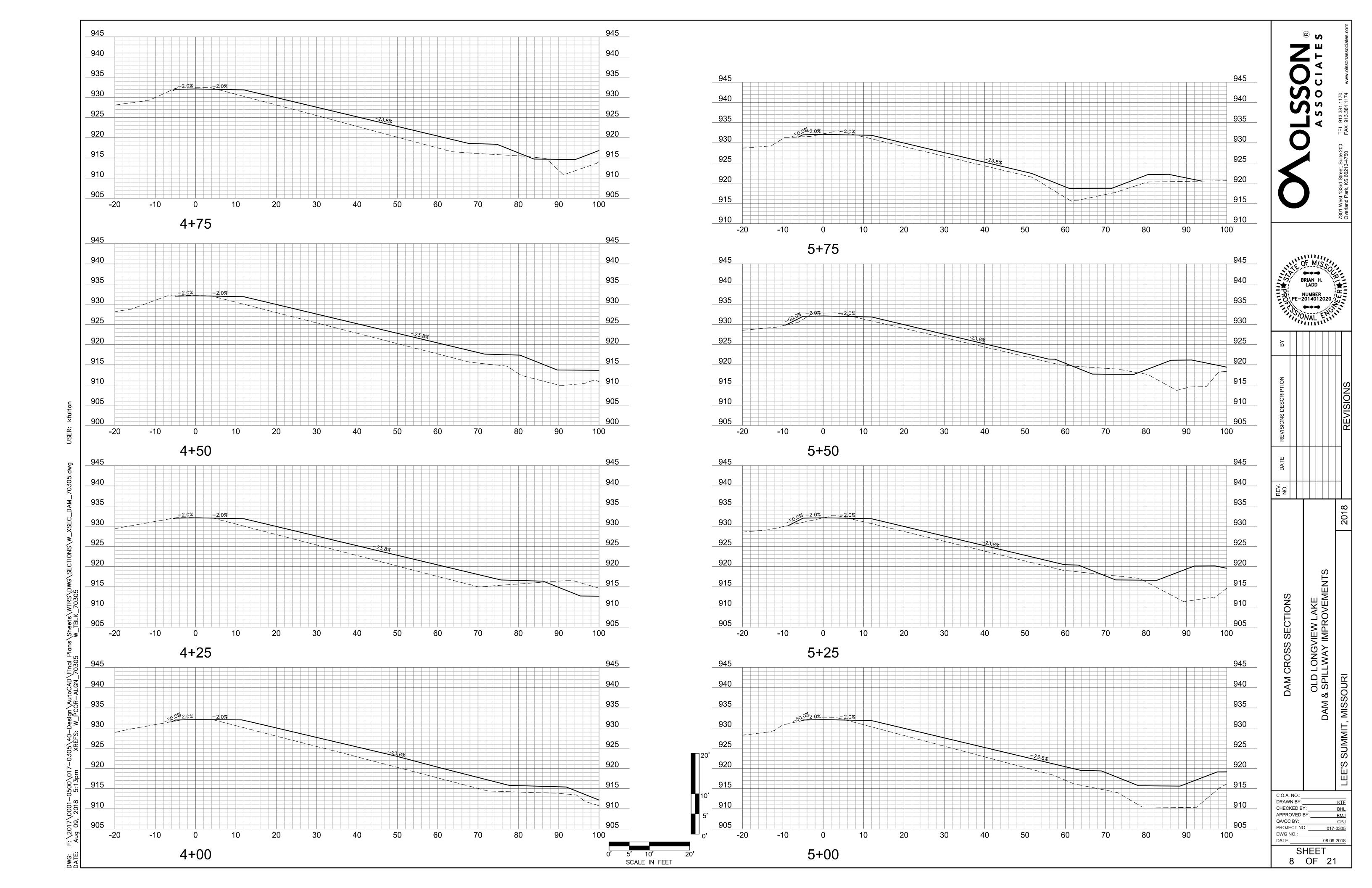
DRAINAGE AREA

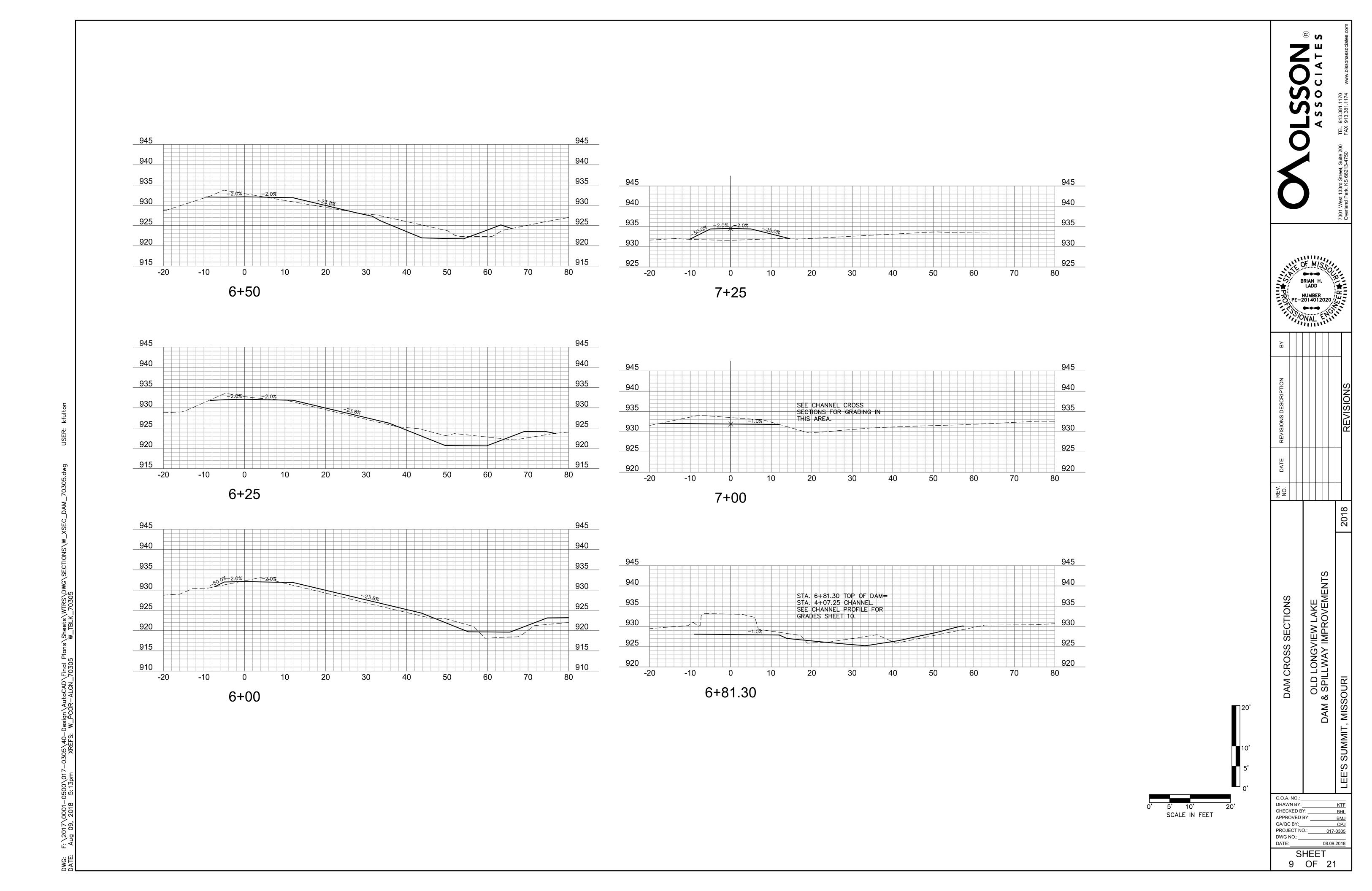
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CHECKED BY: BHL
APPROVED BY: BMJ
QA/QC BY: CPJ
PROJECT NO.: 017-0305
DWG NO.:
DATE: 08.09.2018

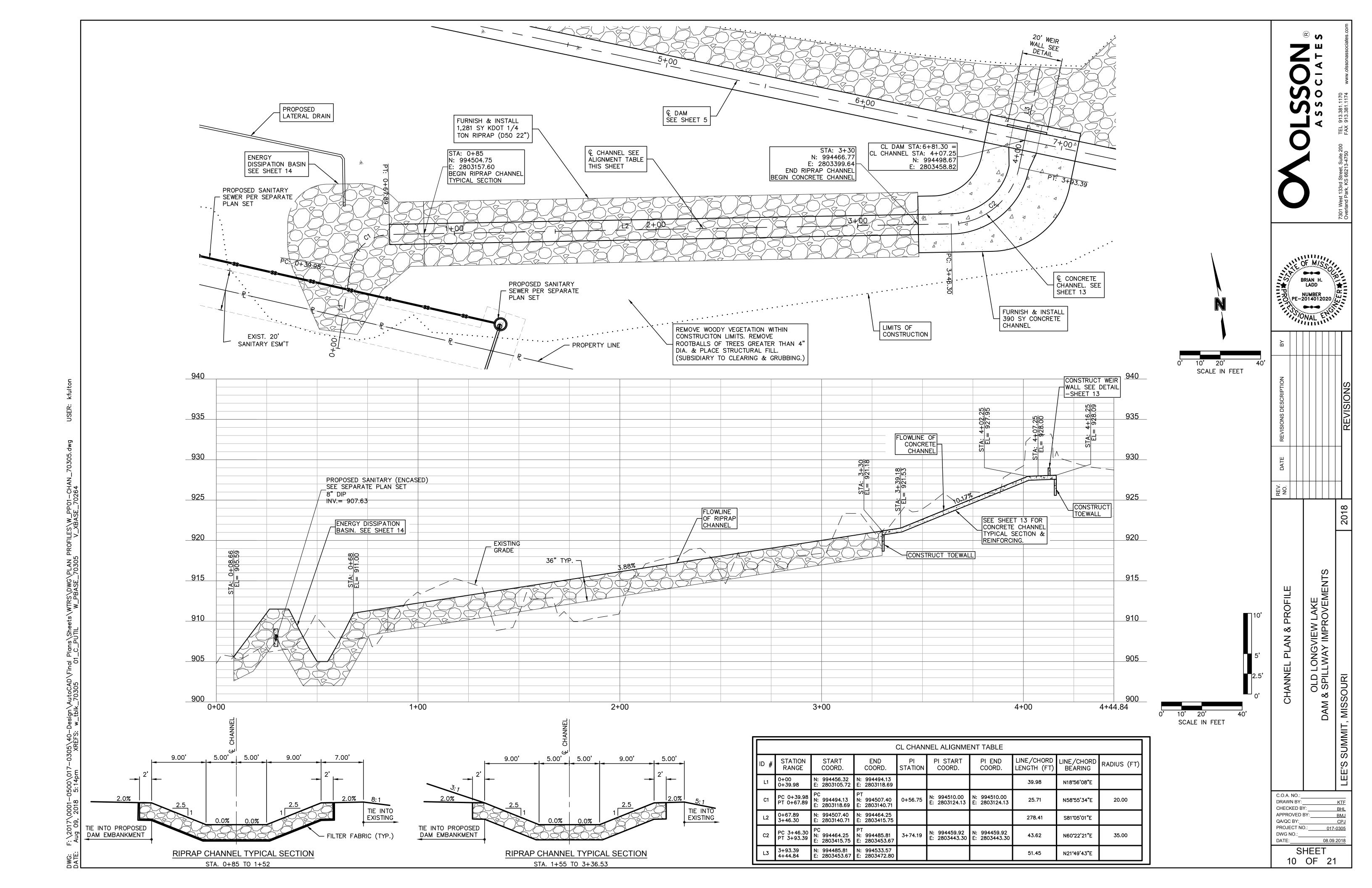
SHEET 4 OF 21

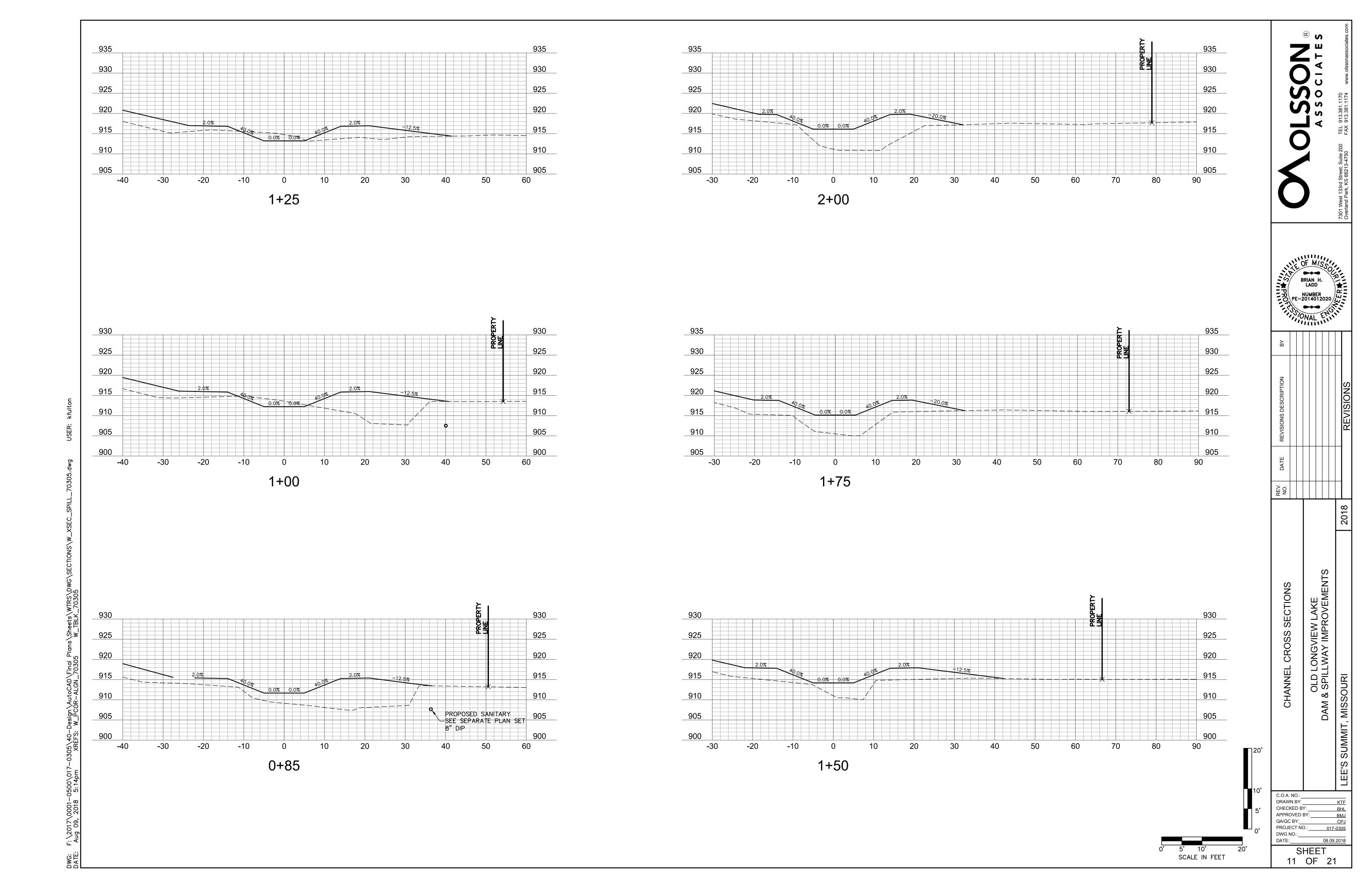


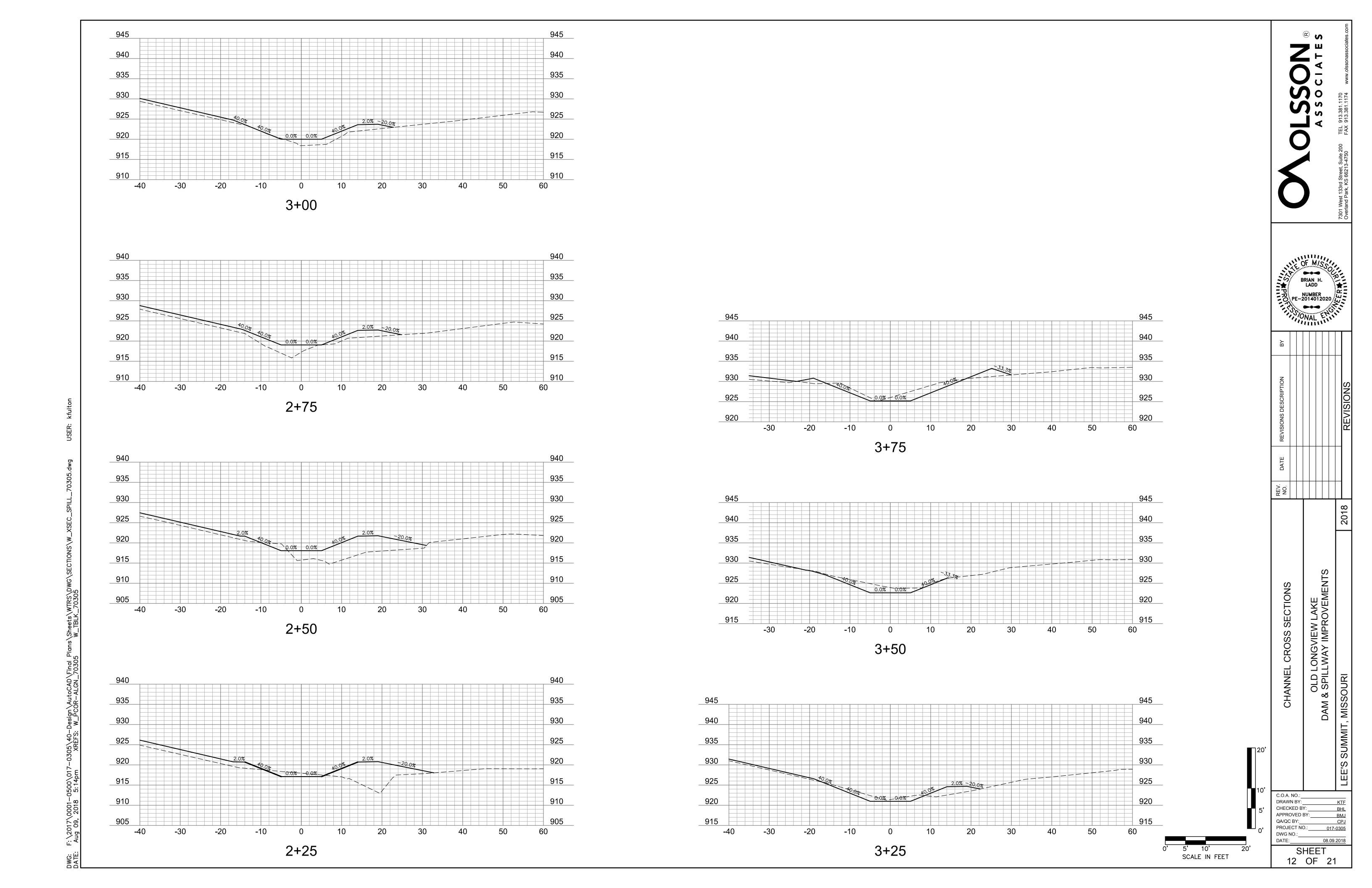


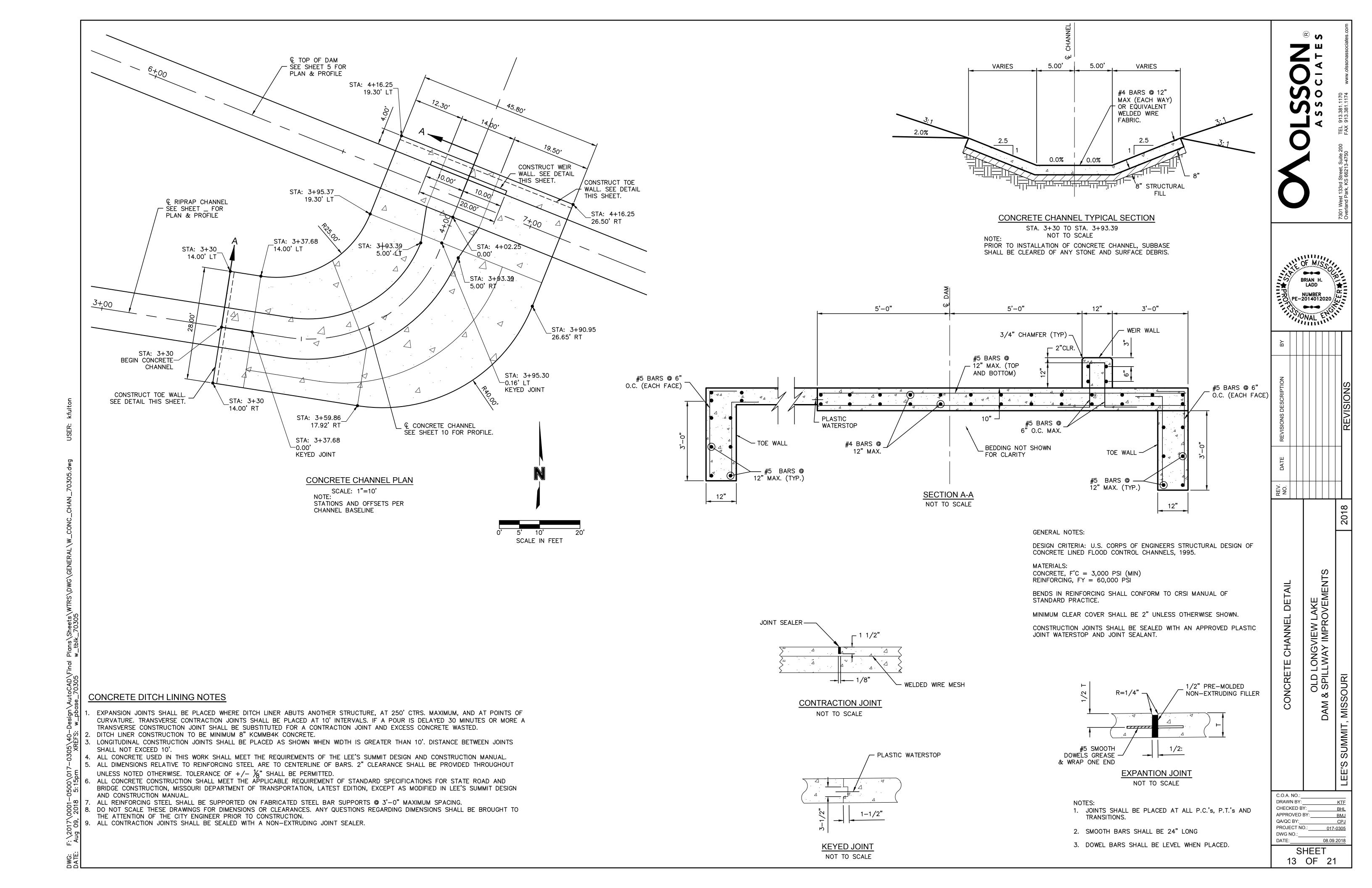


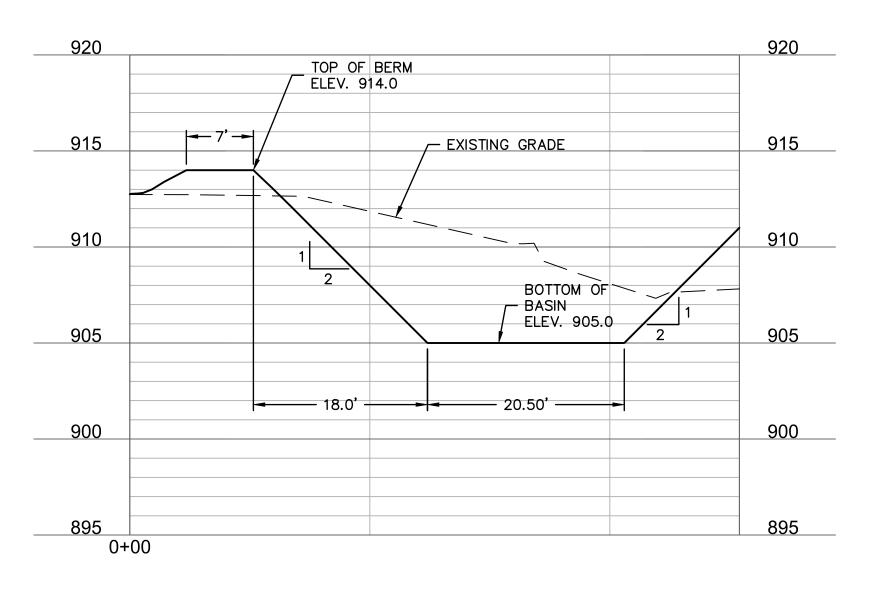




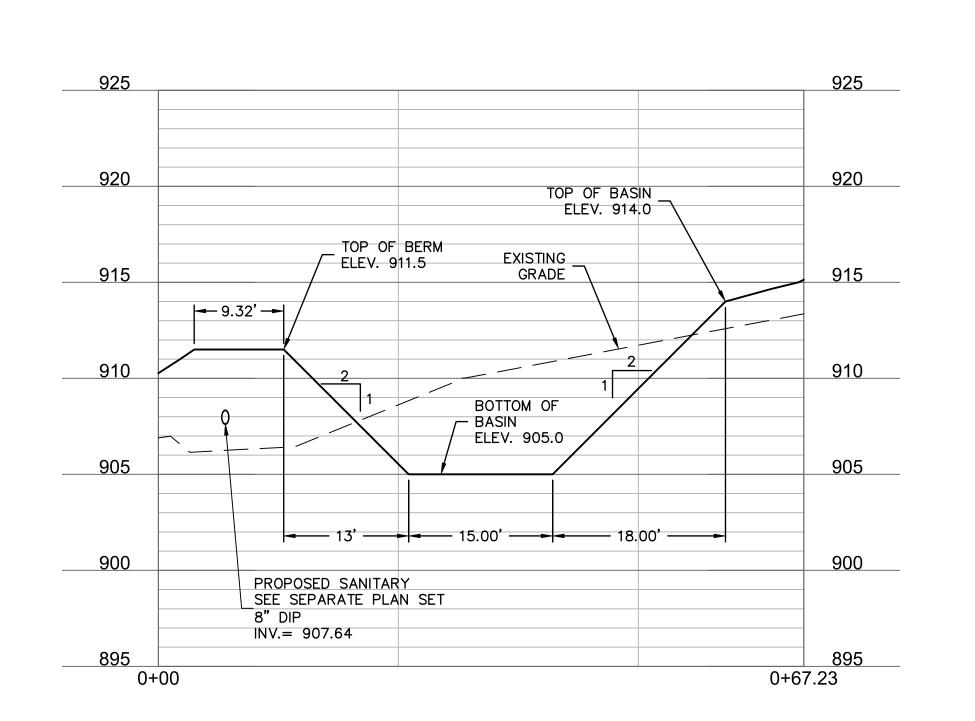








ENERGY DISSIPATION BASIN SECTION A-A SCALE: 1"=10'



ENERGY DISSIPATION BASIN SECTION B-B

SCALE: 1"=10'

OLD LONGVIEW LAKE SPILLWAY IMPROVEMENTS ENERGY DISSIPATION BASIN

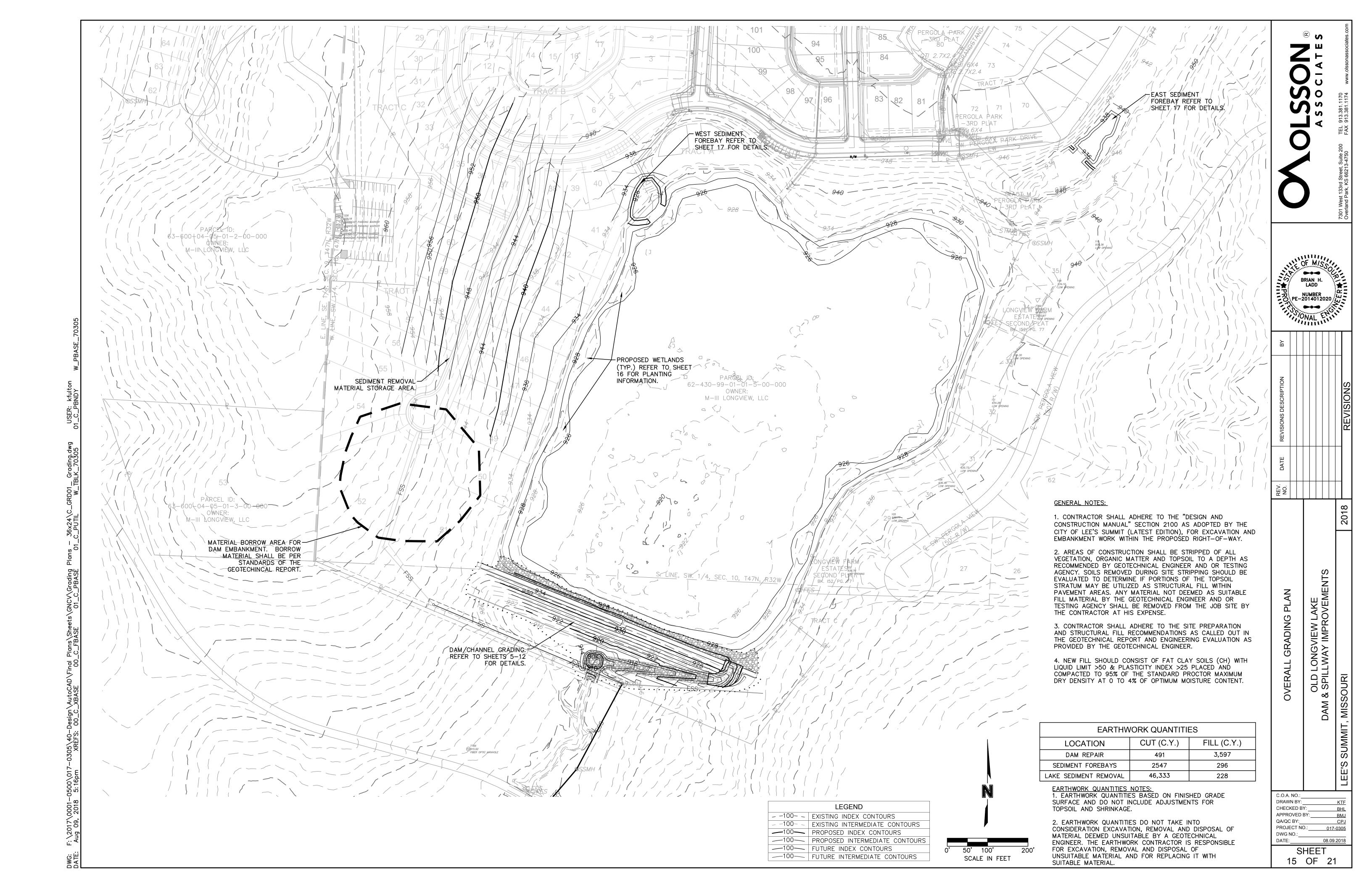
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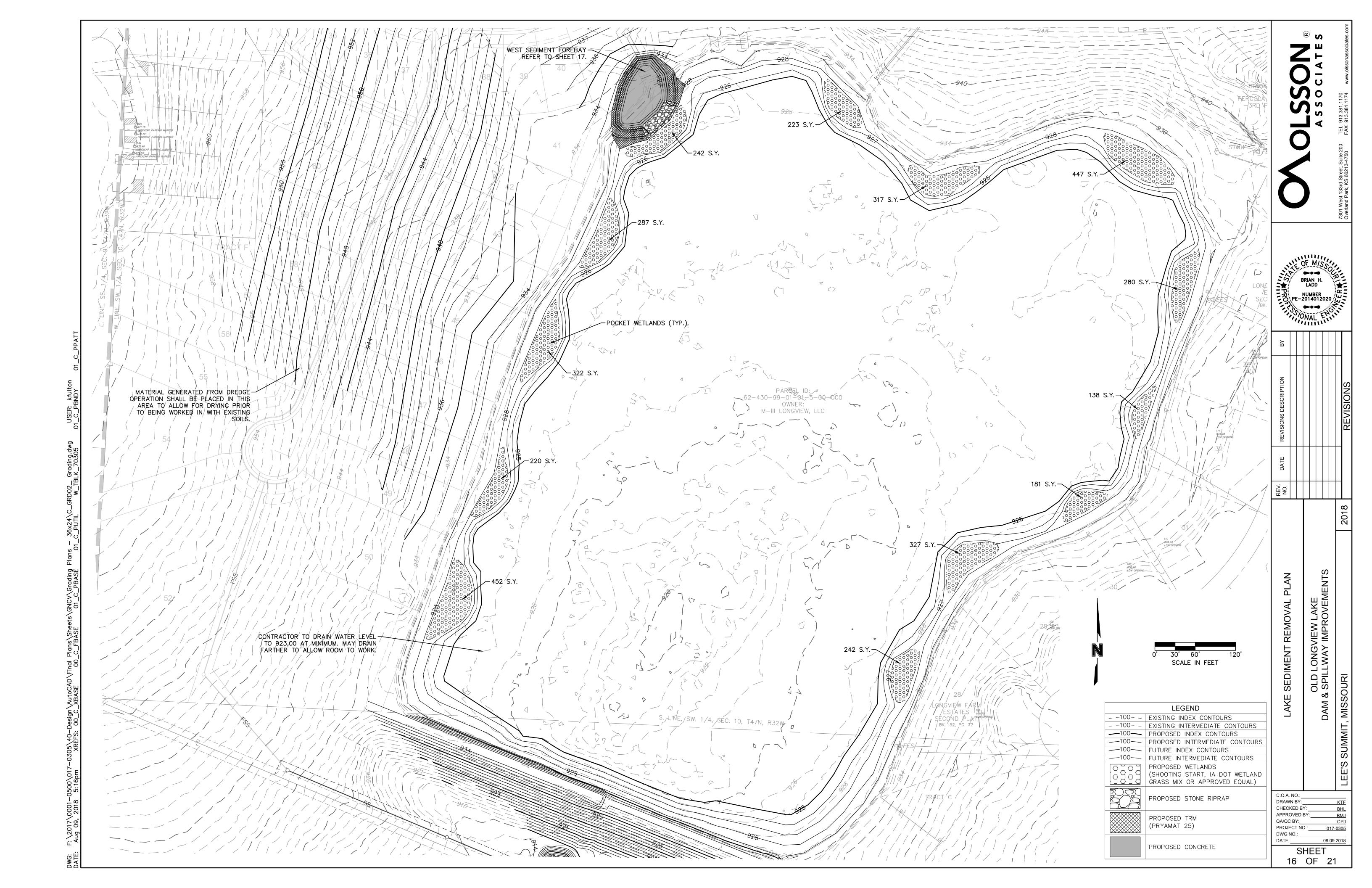
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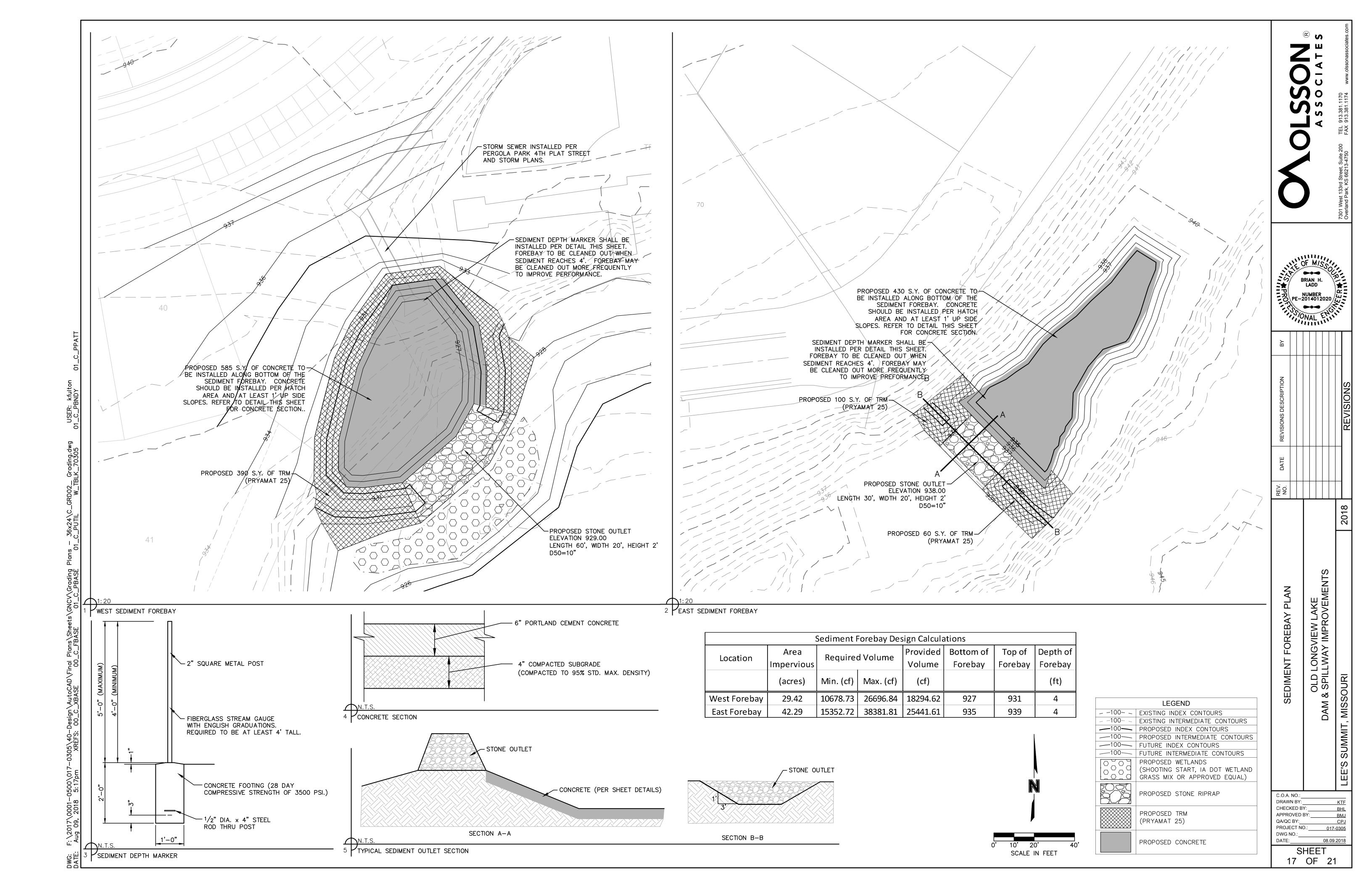
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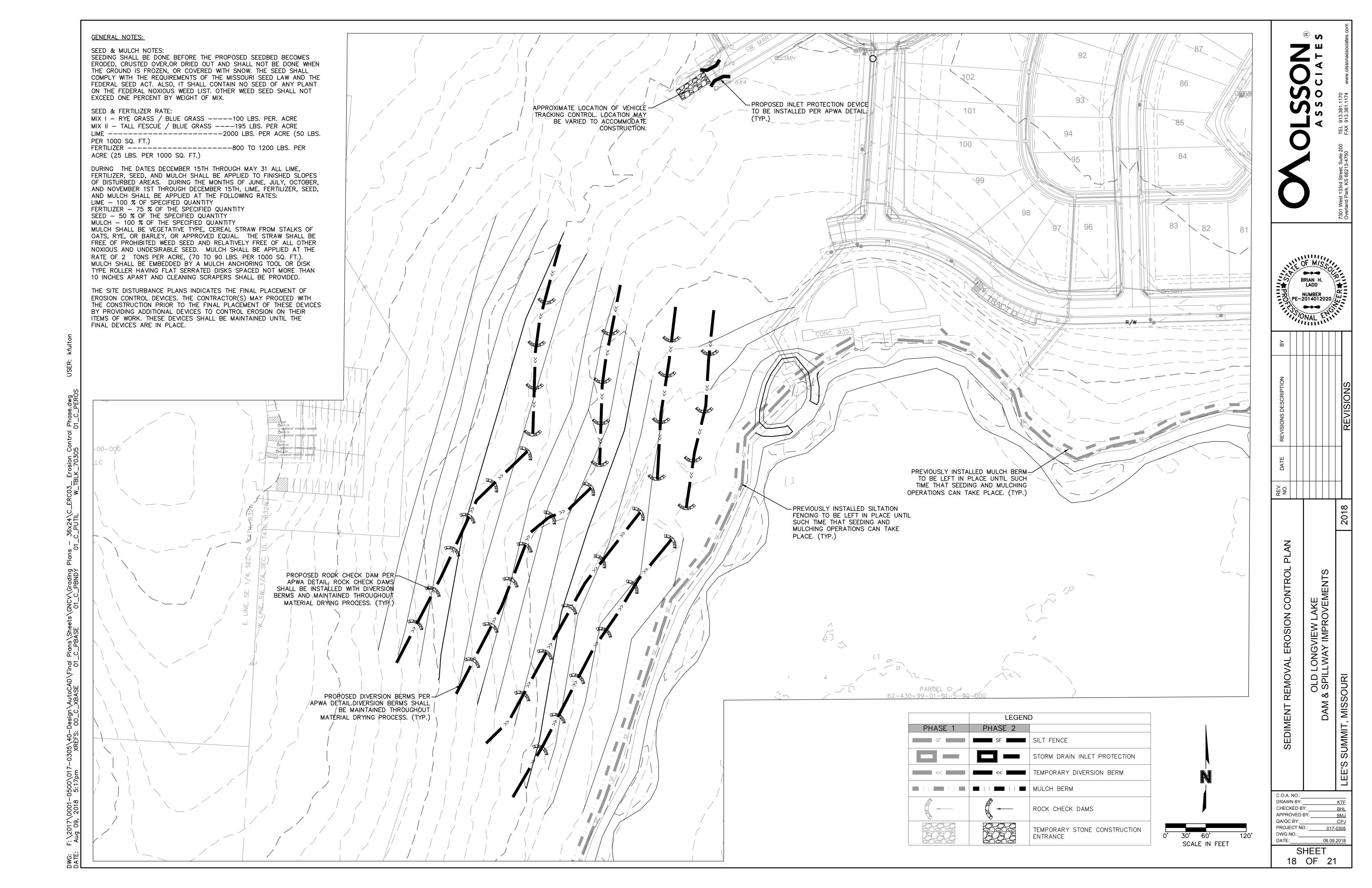
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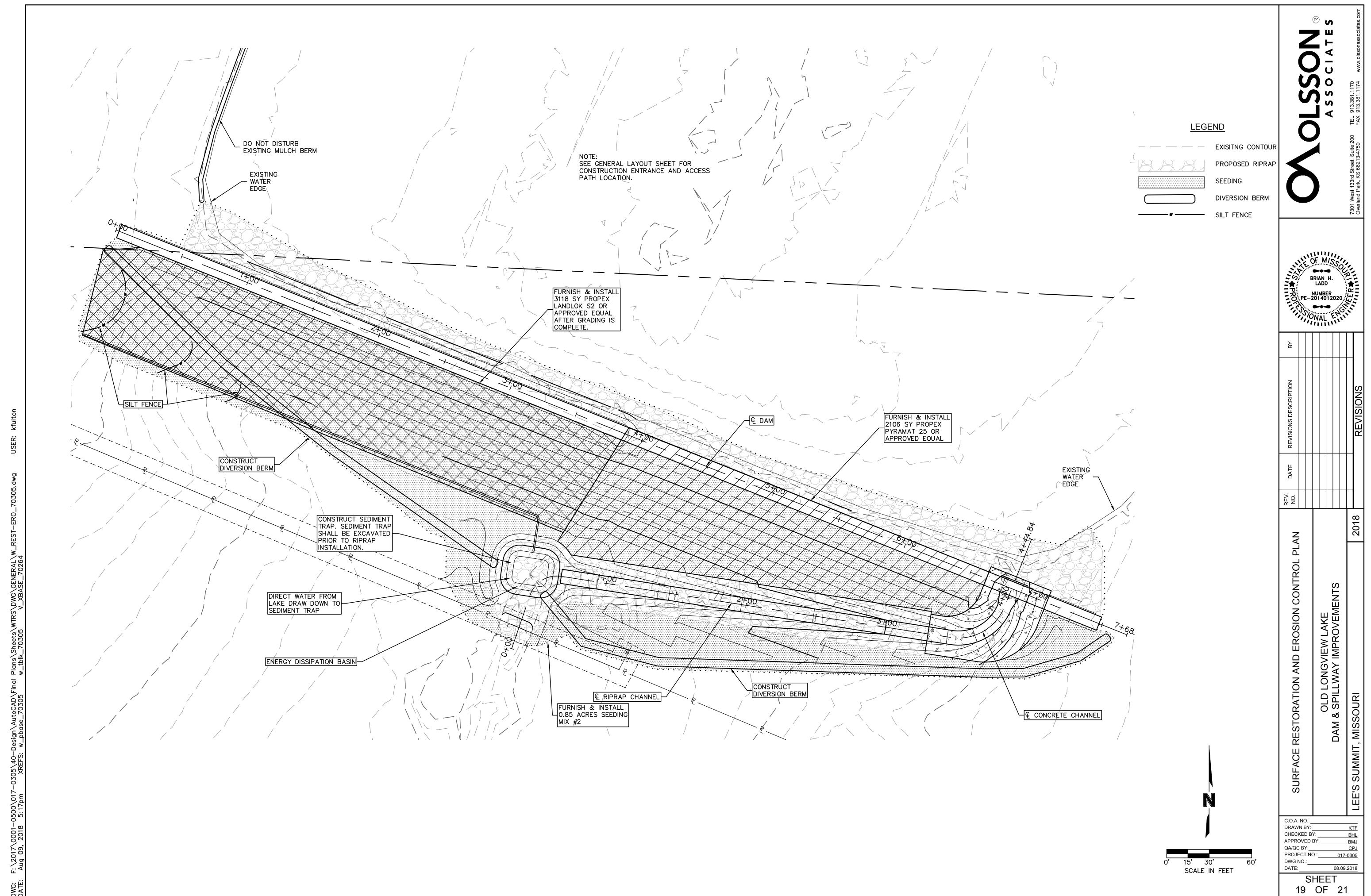
SHEET 14 OF 21

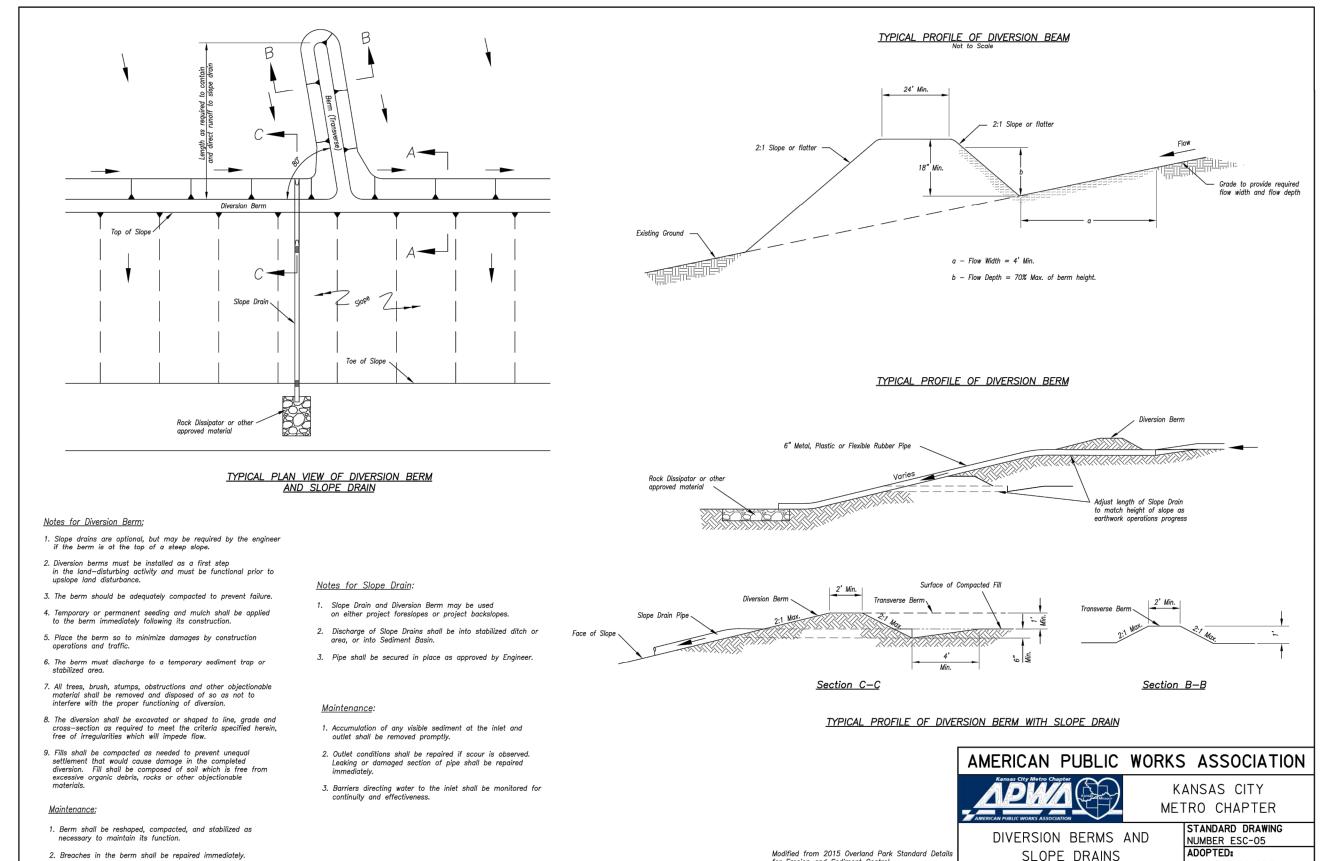


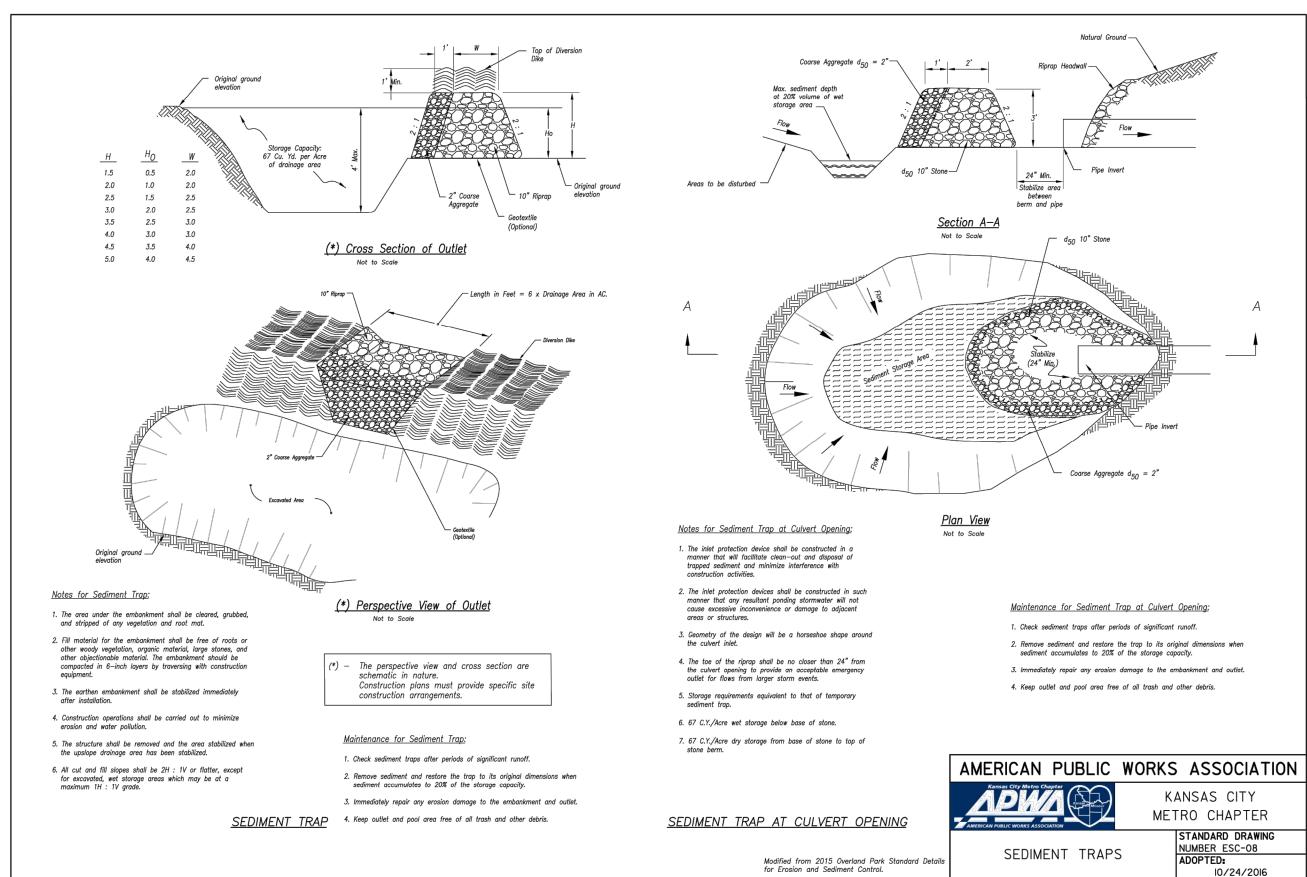


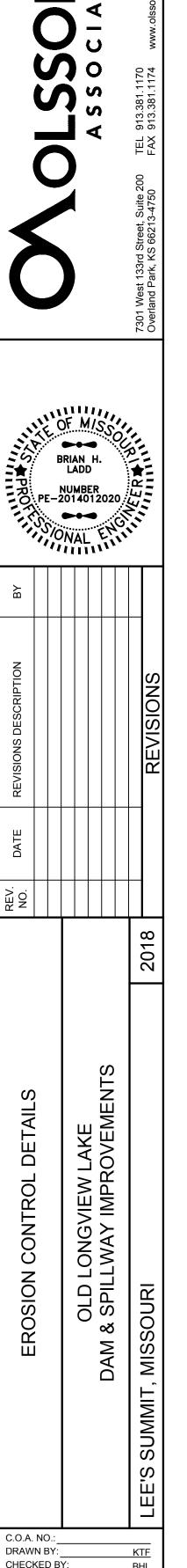












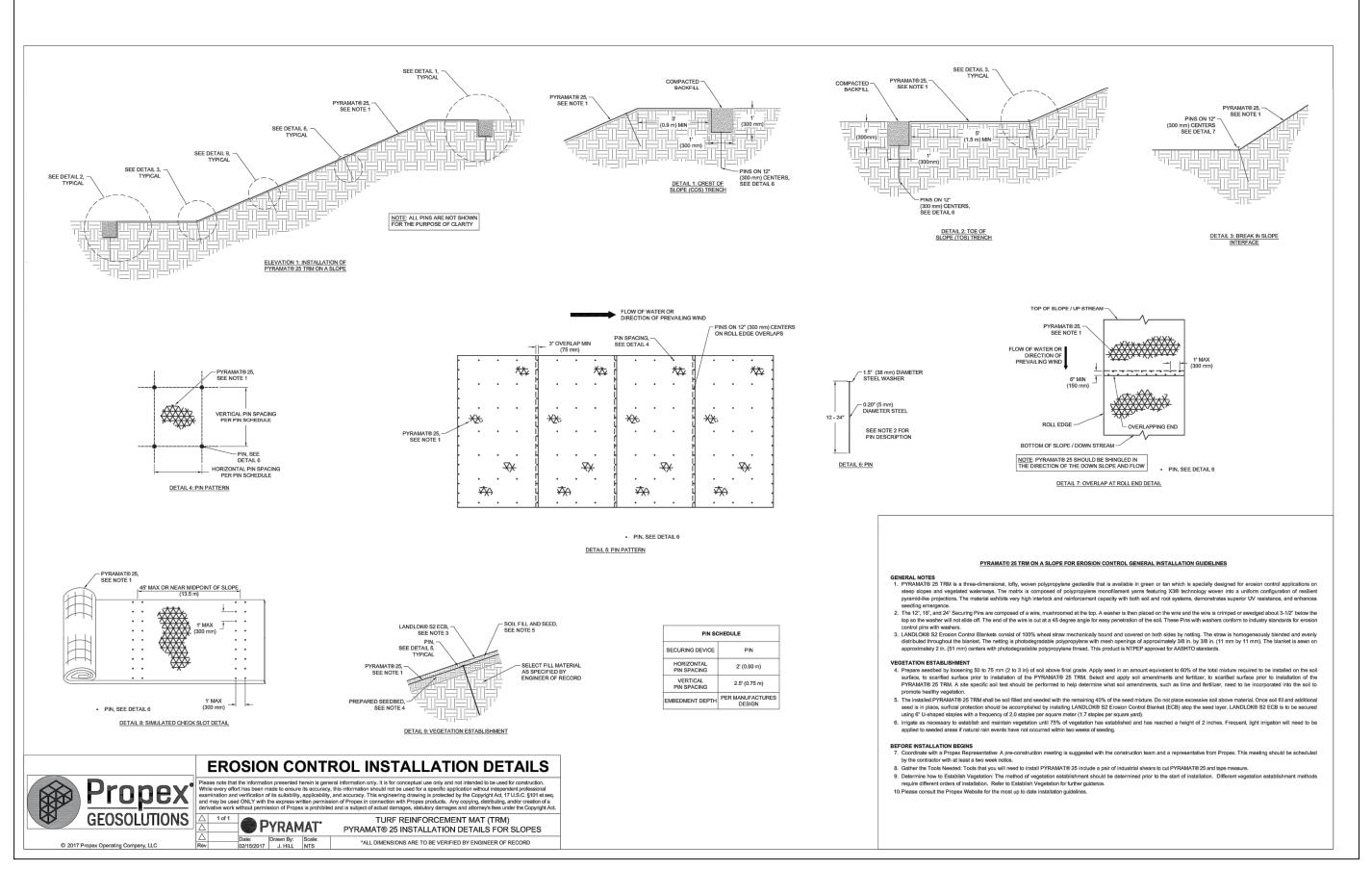
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10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. SLOPE DRAINS 10/24/2016

> CHECKED BY: APPROVED BY: QA/QC BY: PROJECT NO.: 017-0305 DWG NO.: DATE:_ 08.09.2018

> > SHEET 20 OF 21





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OSION CONTROL DETAILS
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> SHEET 21 OF 21