

NOTE:
 ADDITIONAL LIGHTING TO BE INSTALLED IN SOUTH PARKING LOT. REFERENCE SHEET E-101. CONTRACTOR SHALL SAWCUT, REMOVE 5'x5' CONCRETE DIAMOND WITH POINTS ALONG STALL LINES TO ACCOMMODATE NEW POLE BASES. INFILL SPACE WITH 8" P.C.C. ON 4" AGGREGATE BASE. SEE DETAIL ON SHEET C195.

MARKING MATERIALS: APWA 2306.7G
 PARKING STALLS STRIPING AND SYMBOLS
 ALL SURFACES - TRAFFIC MARKING PAINT. COLOR AS INDICATED.
 CROSSWALKS AND GORE AREAS
 ALL SURFACES - TRAFFIC MARKING PAINT. COLOR AS INDICATED.

PAVEMENT MARKING SPECIFICATIONS:
 PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF KANSAS CITY, MISSOURI CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SPECIFICATIONS SECTION 2306 AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.

REV	DATE	DESCRIPTION
3	6/24/24	CITY COMMENTS/PR NO. 2
2	5/16/24	CITY COMMENTS/PR NO. 1
1	4/23/24	ADDENDUM 2/PER CITY COMMENTS
0	3/29/24	ISSUED FOR BID/CITY REVIEW
		DSN
		DWN
		CHK

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KAW VALLEY ENGINEERING
 KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/25.

LEE'S SUMMIT HS - EAST PARKING LOT
 400 SE BLUE PARKWAY
 LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
SITE PLAN

PROJ. NO. **C23.1880**
 DESIGNER **DDW** DRAWN BY **NJN**
 CFN **1880SP**
 SHEET **C100** REV **3**

NOTES:

- 3 REPLANTED TREE. SEE PLANT SCHEDULE. SEE TREE PLANTING DETAIL ON SHEET C190.
- 3A NEW TREE. SEE PLANT SCHEDULE. SEE TREE PLANTING DETAIL ON SHEET C190.
- 4 TRASH/RECYCLE BIN. NOT IN CONTRACT.
- 6 DISTURBED AREAS TO BE SEEDED AS NOTED ON PLAN. REFER TO SHEET C490 FOR REQUIREMENTS.
- 6A 4" OF ROCK MULCH ON NON-WOVEN FILTER FABRIC (1/2" TO 1-1/2", KANSAS RIVER ROCK). TOP OF ROCK MULCH BED TO BE AT OR BELOW TOP OF ADJACENT CURB OR WALK AS APPLICABLE.
- 12 WHITE PARKING LOT STRIPING (SEE SPECIFICATIONS THIS SHEET)
- 12B CROSSWALK 6'x24" WHITE LINES AT 24" TO DELINEATE CROSSWALK.
- 12D GORE AREA. DOUBLE YELLOW (4" STRIPES @ 4" SPACING) WITH 12" YELLOW STRIPES AT 45° TO DIRECTION OF TRAVEL. SPACE AT 25', 3' MINIMUM.
- 13 PAINT CURB RED TO DENOTE FIRE LANE. CONFIRM LIMITS WITH FIRE DEPARTMENT. (SEE SPECIFICATIONS THIS SHEET)
- 15 SITE SIGNAGE. MOUNT EDGE OF SIGN 2' FROM BACK OF CURB AT 7'-0" IN ACCORDANCE WITH MUTCD.
- 60 STORM SEWER STRUCTURE (SEE C600 SERIES SHEETS)
- 80 INSTALL PROPOSED FIRE HYDRANT ASSEMBLY. LOCATE HYDRANT 2' BEHIND CURB AND 2' MINIMUM NORTH OF 8" PRIVATE FIRE LINE. CUT IN A TEE AND PROVIDE SOLID SLEEVE. RESTRAIN ALL JOINTS. REFERENCE CITY STANDARD DETAIL WAT-8 SEE DETAIL ON SHEET C195.
- 90 RESET OR REPLACE QUAZITE BOX IN KIND TO ACCOMMODATE CHANGE IN GRADE.
- 97 PROPOSED SITE LIGHTING (REFER TO MEP PLANS AND SPECIFICATIONS). CENTER OF POLE BASE SHALL BE PLACED A MINIMUM OF 3'-0" FROM BACK OF CURB. SEE DIMENSION PLAN FOR LOCATIONS.

- 001 STRAIGHT BACK CURB AND GUTTER
- 002 CURB AND GUTTER DETAIL AT RAMP
- 005 INTEGRAL CURB AND GUTTER
- 014 CONCRETE WHEEL STOPS
- 040 ASPHALT PAVEMENT
- 042 CONCRETE PAVEMENT
- 055 CONCRETE SIDEWALK
- 060 SIDEWALK RAMP
- 102 ACCESSIBLE SPACE STRIPING
- 120 ACCESSIBLE PARKING SIGNAGE
- 130 BOLLARD (SEE SHEET C195 FOR LAYOUT). DISTRICT TO PROVIDE STEEL PIPE FOR INSTALL.
- 416 CONCRETE FLUME (SEE SHEET C195)

LEGEND:

- △ SECTION CORNER
- CONTROL POINT
- ◆ BENCHMARK
- MONUMENT FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- (2) OVERHEAD UTILITY LINE (# OF LINES)
- ☆ LIGHT POLE
- ⊕ UTILITY POLE
- ⊞ ELECTRIC METER
- ⊞ AIR CONDITIONER
- ⊞ GAS METER
- ⊞ WATER METER
- ⊞ WATER LINE GATE VALVE
- ⊞ FIRE HYDRANT
- ⊞ WATER SPIGOT
- ⊞ SPRINKLER VALVE
- ⊞ BREAKER BOX
- ⊞ ELECTRIC OUTLET
- DE DOOR ELEVATION (AT THRESHOLD)
- FF FINISH FLOOR ELEVATION
- ⊞ BUSH
- ⊞ BASKETBALL GOAL
- LIMITS OF DISTURBANCE
- A-B ASPHALT EDGE TREATMENT. SEE SECTION ON C190
- ◇ SPUR BOX
- UVV UTILITY VAULT
- ⊞ SANITARY SEWER MANHOLE
- ⊞ STORM SEWER MANHOLE
- ⊞ SANITARY SEWER CLEAN OUT
- ⊞ DOWN SPOUT
- ⊞ GRATE INLET
- ▷ FLARED END SECTION
- ⊞ STREET/TRAFFIC SIGN
- ⊞ TRAFFIC SIGNAL LIGHT POLE
- ⊞ HANDICAP SYMBOL
- ⊞ PARKING STALL COUNT
- ⊞ HANDICAP SIGN
- ⊞ DECIDUOUS TREE
- ⊞ CONIFEROUS TREE
- TREE LINE
- ⊞ TURN LANE DIRECTION
- ASPHALT SURFACE COURSE
- FULL DEPTH ASPHALT PAVEMENT (040)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW
- PAINTED CURB FOR FIRE LANE
- △ SECTION CORNER
- MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
- 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
- ⊞ MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
- ⊞ CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
- (M) MEASURED VALUE
- (C) CALCULATED
- (D) DEED VALUE
- (P) PLAT VALUE
- (CP) CALCULATED PLAT VALUE
- (CM) CALCULATED MEASURED VALUE
- (R) RECORD VALUE
- SS/E SANITARY SEWER EASEMENT
- D/E STORM DRAINAGE EASEMENT
- CONCRETE PAVEMENT (042) W/JOINTING
- TYPE 1 JOINT (TYP)
- TYPE 3 JOINT (TYP)
- L LANDING
- R RAMP
- T TRANSITION

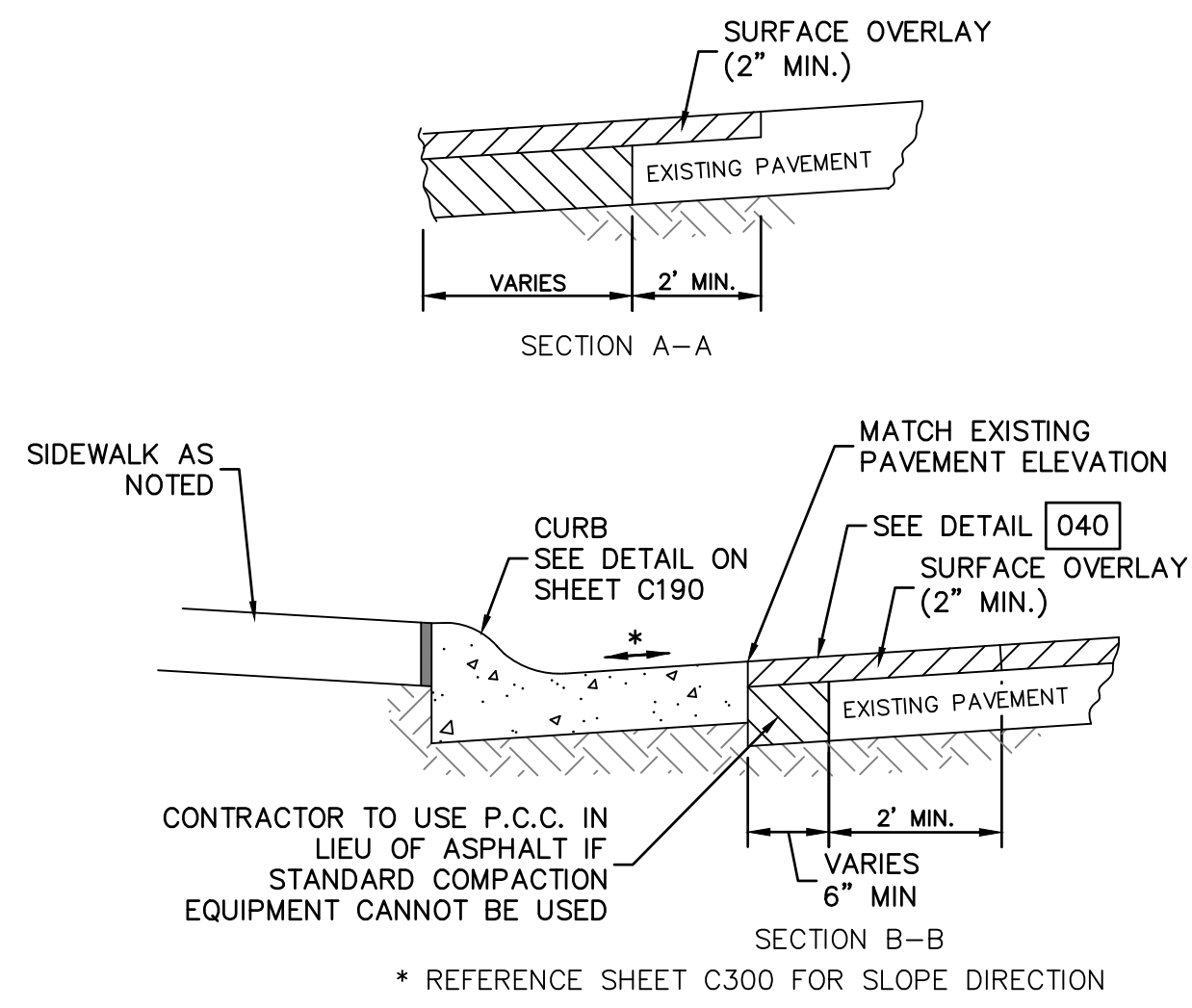
PLANT LIST						
SYM.	BOTANICAL NAME	COMMON NAME	SIZE	POT/B&B	SPACING	REMARKS
		DECIDUOUS TREE				
4	GD	Gymnocladus dioicis 'Expresso'	Seedless Kentucky Coffeetree	2-1/2" Caliper	B&B	Single Straight Leader; Well Branched
4	QB	Quercus bicolor	Swamp White Oak	2-1/2" Caliper	B&B	Single Straight Leader; Well Branched
2	QM	Quercus macrocarpa	Bur Oak	2-1/2" Caliper	B&B	Single Straight Leader; Well Branched
1	TA	Tilia americana 'Boulevard'	Boulevard Linden	2-1/2" Caliper	B&B	Single Straight Leader; Well Branched

WARRANTY PERIOD IS 1 YEAR AND AN ADDITIONAL 1 YEAR FROM THE TIME OF REPLANTING AS APPLICABLE.

NOTE:
 1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

THERE IS NO PHYSICAL EVIDENCE OF OIL OR GAS WELLS ON THE SUBJECT PROPERTY. THERE IS NO RECORD OF A PERMITTED OIL OR GAS WELL ON THE MDNR MISSOURI GEOLOGICAL SURVEY.





MILL AND OVERLAY DETAIL

ASPHALT MILL AND OVERLAY NOTES:

MILLING SHALL BE IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2207 AS AMENDED BELOW.

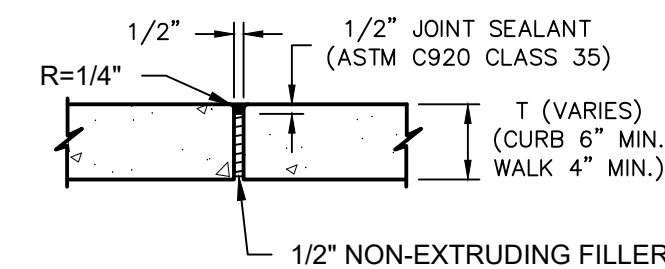
MILLING FOR THE DRIVES AND PARKING LOTS SHALL BE COLD MILLED AS FOLLOWS:

- EQUIPMENT: MILLING THE SURFACE OF PAVEMENTS SHALL BE COMPLETED BY USE OF A MILLING MACHINE CONFORMING TO THE FOLLOWING.
 - MACHINE: THE COLD MILLING MACHINE SHALL BE SELF-PROPELLED AND SHALL HAVE IN COMBINATION THE MEANS OF MILLING AND CUTTING, WITHOUT SOFTENING THE OLD SURFACE AND BLADING THE CUTTING INTO A SINGLE WINDROW, OR DEPOSITING THEM DIRECTLY INTO A TRUCK.
 - AIR POLLUTION: THE MACHINE SHALL BE EQUIPPED WITH A DUST SUPPRESSION SYSTEM INCLUDING WATER STORAGE TANKS AND HIGH PRESSURE SPRAY BARS.
 - OPERATING WIDTH: IT IS DESIRABLE THAT THE CUTTING WIDTH BE GREATER THAN 6 FEET (2 m). IN THE EVENT THE CUTTING WIDTH IS LESS THAN 6 FEET (2 m) CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADE CONTROL AS NOTED ON PLANS.
 - CUTTING DRUM: THE CUTTING DRUM SHALL BE TOTALLY ENCLOSED TO PREVENT DISCHARGE OF ANY LOOSENED MATERIAL ADJACENT TO WORK AREAS.
- CONSTRUCTION DETAILS
 - METHODS OF OPERATIONS FOR MILLING:
 - OPERATOR: THE MILLING MACHINE SHALL BE OPERATED BY AN EXPERIENCED AND CAPABLE OPERATOR.
 - UTILITIES: STREET SURFACES ADJACENT TO MANHOLE, WATER VALVES AND OTHER UTILITY EXTENSIONS, SHALL BE COMPLETELY REMOVED TO THE FULL DEPTH THE CUT SPECIFIED FOR THE STREET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - MATERIAL DISPOSAL: THE MATERIAL WITHDRAWN BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
 - SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - TYPES OF CUTS TO BE MADE BY MILLING:
 - LEVELING: SUFFICIENT PASSES SHALL BE MADE SUCH THAT ALL IRREGULARITIES OR HIGH SPOTS ARE ELIMINATED, AND THAT 100% OF THE SURFACE IS MILLED.
 - AVERAGE DEPTH: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH OVER THE ENTIRE STREET SECTION. THESE DEPTHS WILL BE DESIGNATED ON THE PLANS.
 - CURB CUT: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE CURB FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0. THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.
 - CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE REMOVED.

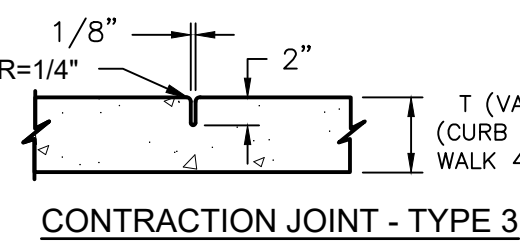
CRACKS: AFTER SURFACE MILLING DETERIORATED (FATIGUE CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS THAT HAVE A WIDTH GREATER THAN 1.5-INCHES SHALL BE MILLED OR MECHANICALLY ROUTED OUT TO A MINIMUM DEPTH OF 2-INCHES AND PATCHED WITH A HOT MIX ASPHALT PRIOR TO OVERLAY. UNDETERIORATED PAVEMENT CRACKS WITH WIDTHS BETWEEN 1.5-INCHES AND 0.25-INCHES WIDE SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH AN APPROVED CRACK SEALING MATERIAL SUCH AS CRAFCO ROADSAYER 514, 515, PARKING LOT SEALANT TYPE 1 OR APPROVED EQUAL.

CONSTRUCTION OF THE OVERLAY WILL BE PERFORMED IN ACCORDANCE WITH APWA SPECIFICATIONS:

- MEASURED DENSITY OF THE COMPLETED OVERLAY SHALL HAVE A COMPACTED DENSITY OF 92% TO 97% OF THE DAILY THEORETICAL MAXIMUM SPECIFIC GRAVITY (GMM) OF THE MIX SUPPLIED TO THE PROJECT.
- AREAS OF THE PAVEMENT SURFACE ON THE DRIVES AND PARKING LOTS THAT ARE SHOWN TO HAVE SEGREGATION UPON COMPLETION OF FINAL ROLLING SHALL RECEIVE AN ADDITIONAL SURFACE TREATMENT TO CLOSE THE SURFACE VOIDS. THE SURFACE TREATMENT SHALL CONSIST OF MANUFACTURED SAND COATED WITH SS-1H EMULSION WORKED INTO THE SURFACE VOIDS TO YIELD A UNIFORM APPEARING SURFACE.
- SEE DETAIL 040 FOR SURFACE MIX.



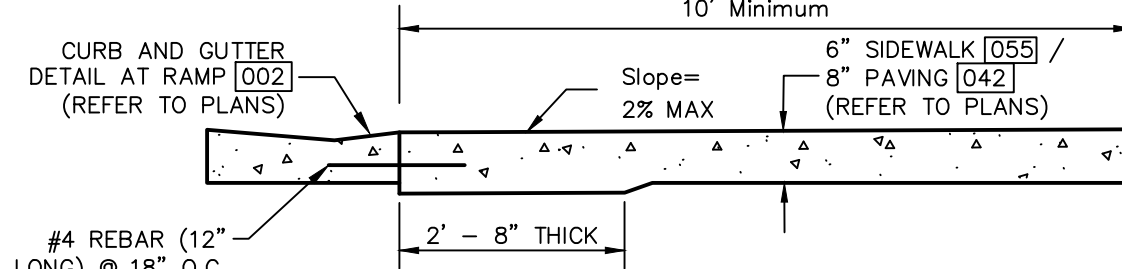
NOTE:
1. TYPE 2 JOINTS SHALL BE PLACED AS NOTED AND AT ALL P.C.'S, P.T.'S AND TRANSITIONS, AND WHERE NEW CURB OR CONCRETE PAVEMENT TIES INTO EXISTING CURB OR CONCRETE PAVEMENT.
2. SMOOTH BARS SHALL BE 24" LONG



CONCRETE JOINT - TYPE 3

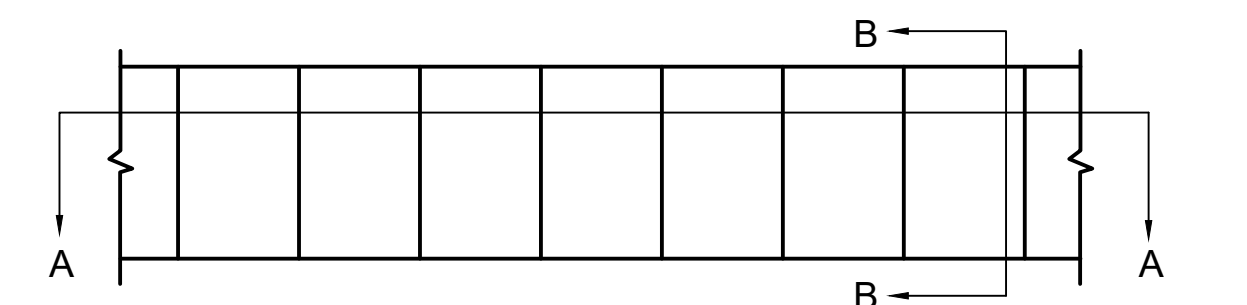
CONCRETE AND SIDEWALK NOTES:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AND COMPLY WITH KCMMB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200.
- REINFORCING STEEL SHALL BE GRADE 60 AND COMPLY WITH ASTM A615. EPOXY COATED BARS AS NOTED SHALL COMPLY WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
- SIDEWALKS TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
- SIDEWALK JOINTS MAY BE SAWN UNLESS SHOWN OTHERWISE ON ARCHITECT/LANDSCAPE ARCHITECT PLANS.

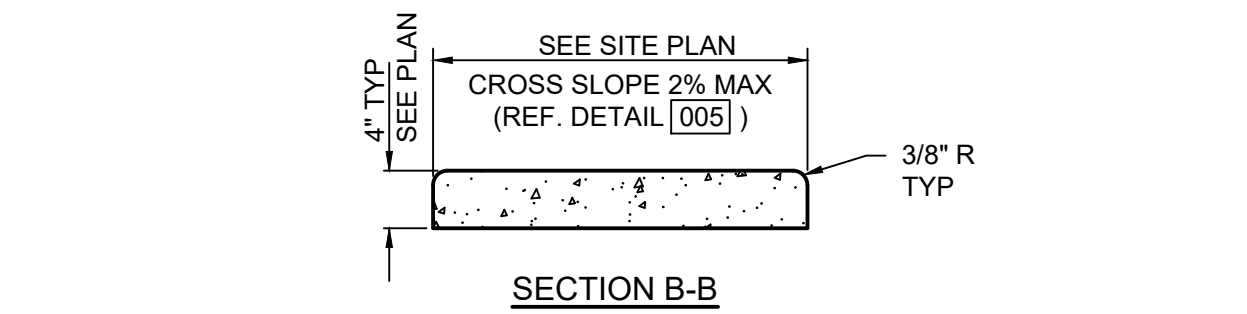
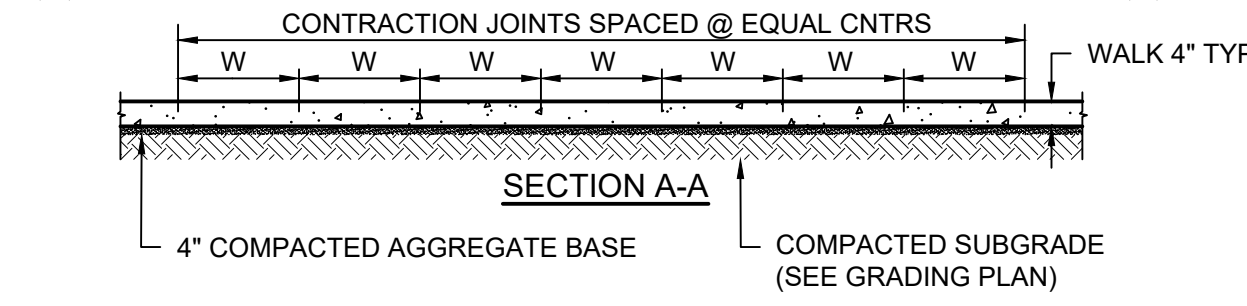


INTEGRAL CURB AND SIDEWALK 005

Note:
Install 12" tie bars #4 epoxy coated @18" o.c. and through wings as shown.



1/4" THICKNESS PRE MOLDED EXPANSION JOINT FILLER SPACED @ 100" CNTRS. MINIMUM AND LOCATED AT SIDEWALK TURNS, CURBS OR SIMILAR STRUCTURES.
CONTRACTION JOINTS SPACED @ EQUAL CNTRS.



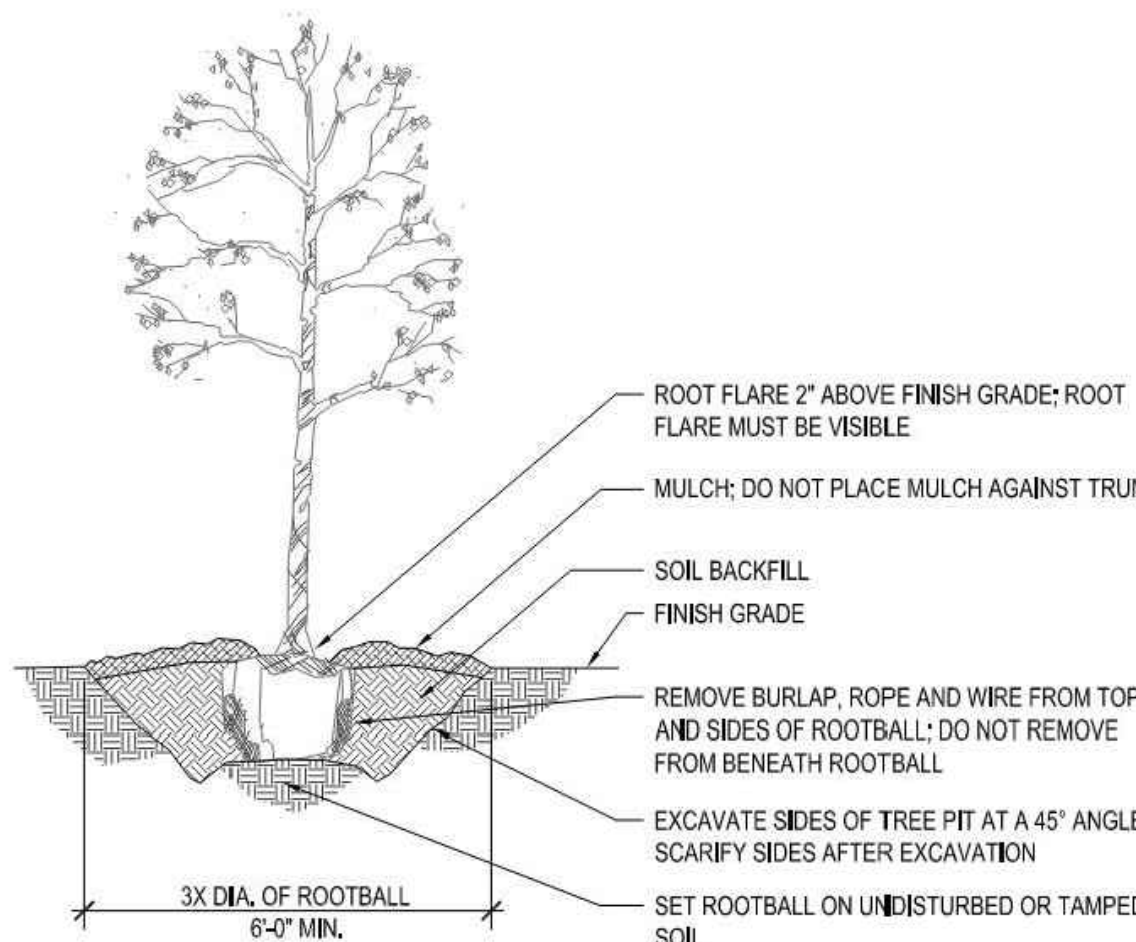
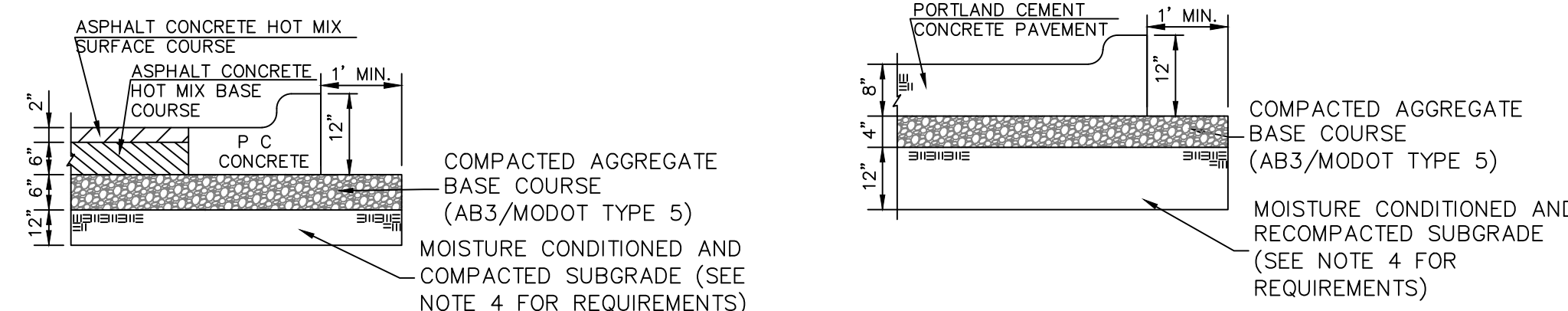
CONCRETE SIDEWALK 055

- NOTE:
1. CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED/SOD IN ACCORDANCE WITH LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.

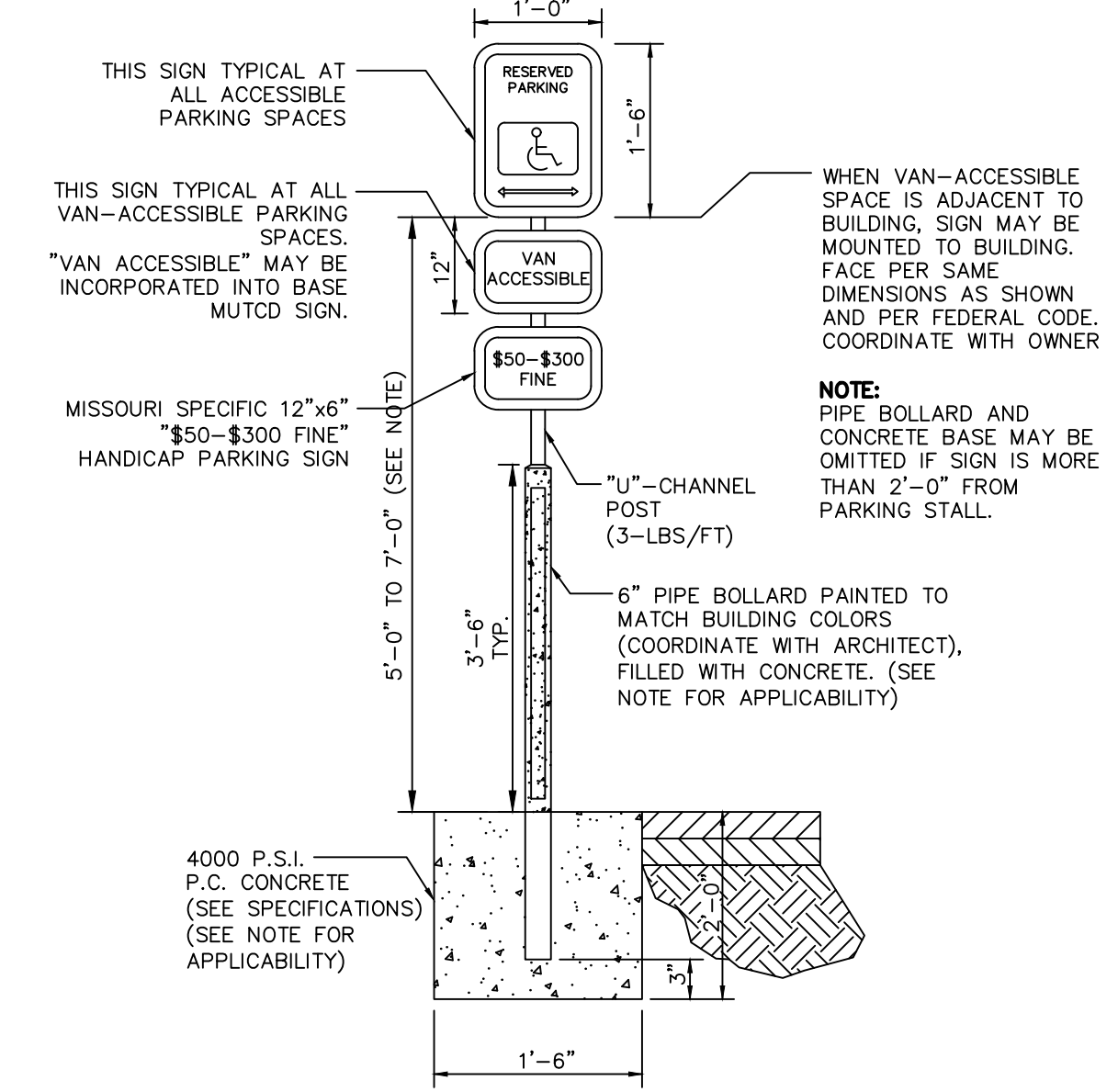
ASPHALT PAVEMENT 040

- FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY THE CITY OF LEE'S SUMMIT. REFER TO THE CITY DESIGN AND CONSTRUCTION MANUAL.
ASPHALT SURFACE COURSE - KCMMA2
ASPHALT BASE COURSE - KCMMA3
- RECYCLED MIXES MEETING APWA SPECIFICATIONS ARE ACCEPTABLE FOR BOTH BASE AND SURFACE COURSES.
- PORTLAND CEMENT CONCRETE SHALL BE A KCMMA4 MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- ONSITE CLAY SOILS SHALL BE STABILIZED WITH 5% PORTLAND CEMENT AS OUTLINED IN THE GEOTECHNICAL REPORT

PAVING DETAILS

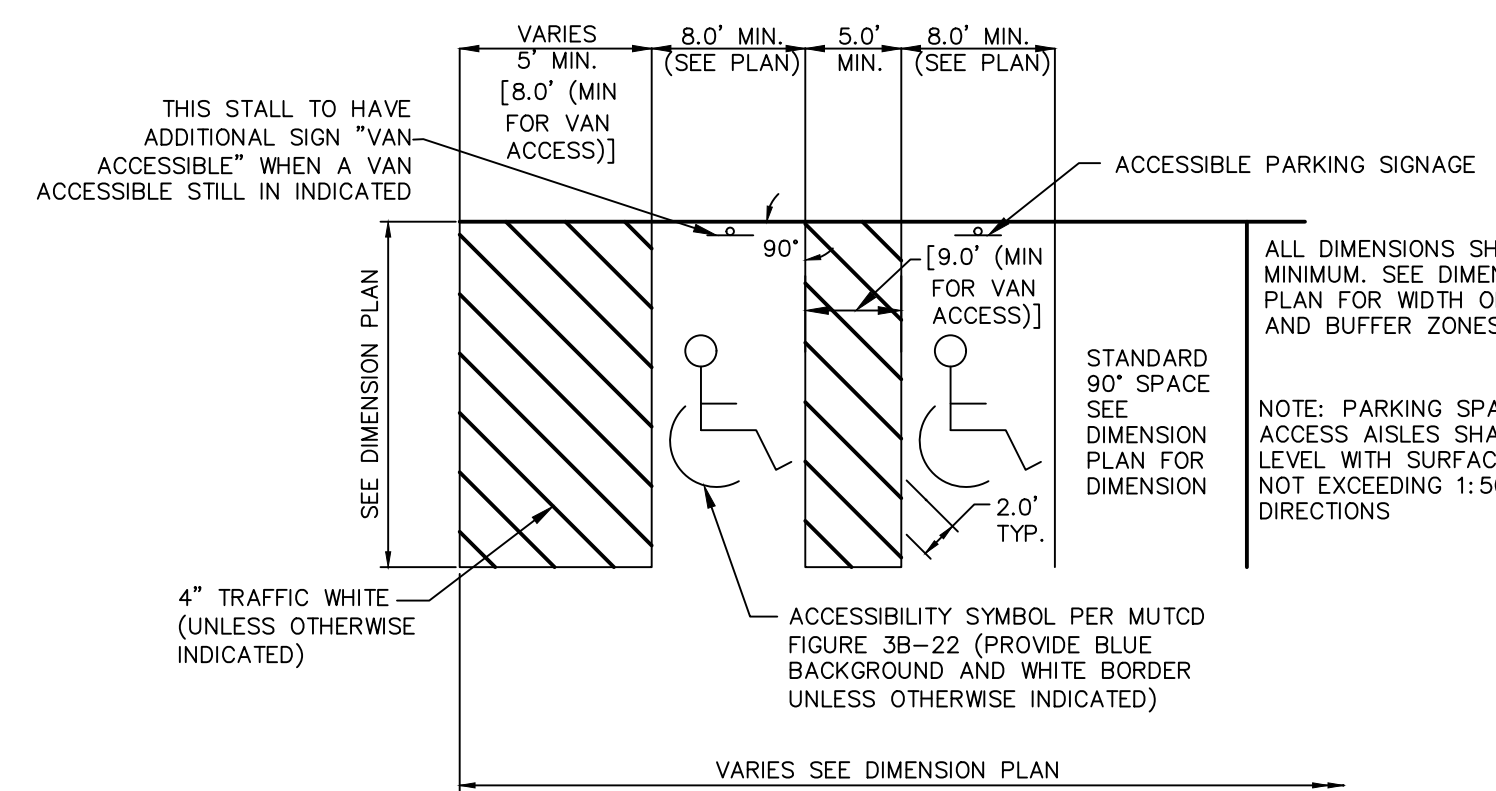


TREE PLANTING DETAIL

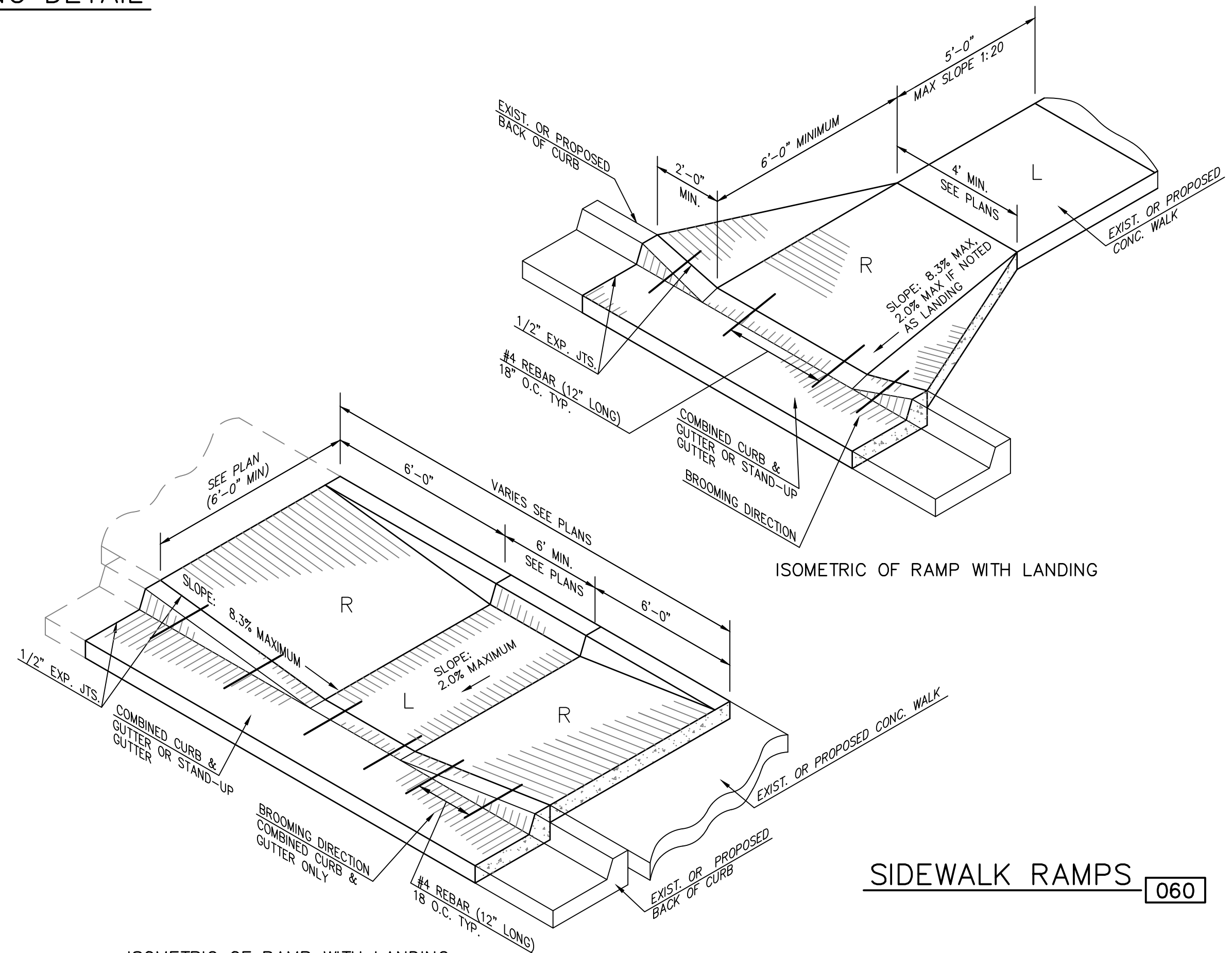


ACCESSIBLE PARKING SIGN 120

HEIGHT ABOVE GRADE FOR POLE MOUNTED SIGNS VARIES. TYPICAL INSTALLATION IS 5'-0" ABOVE GRADE. SIGN SHALL BE MOUNTED AT 7'-0" IF IT FALLS WITHIN A WALKING PATH.



ACCESSIBLE STRIPING 102



SIDEWALK RAMPS 060

REV	DATE	DESCRIPTION
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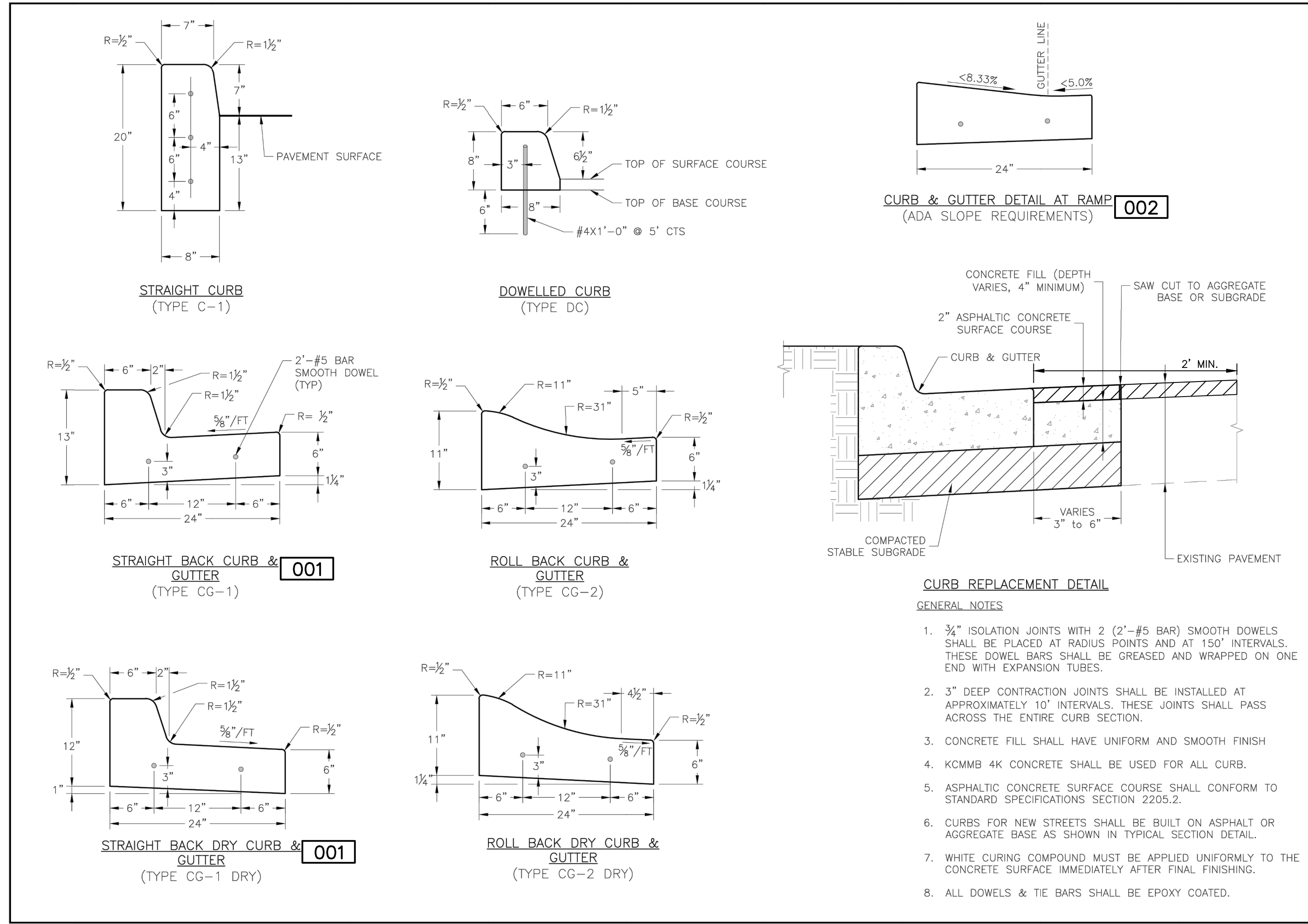


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LEE'S SUMMIT HS - EAST PARKING LOT
400 SE BLUE PARKWAY
LEE'S SUMMIT, MISSOURI 64063
CONSTRUCTION DOCUMENTS PHASE I
SITE DETAILS

PROJ. NO.	C23-1880
DESIGNER	DDW
DRAWN BY	NJN
CFN	
SHEET	1880DET
	C190
REV	3

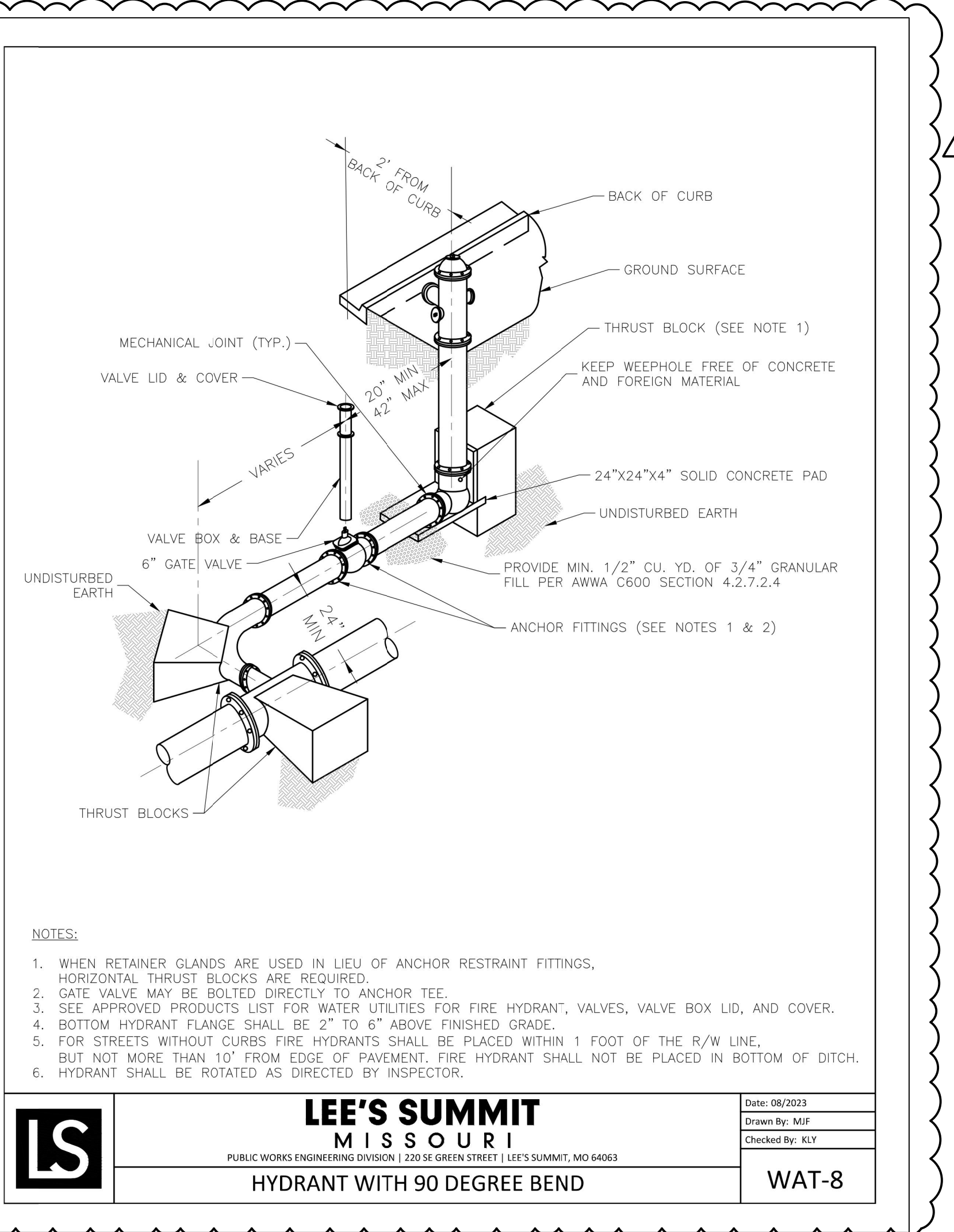


LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 S. GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

CURB & GUTTER DETAIL
 GEN-4

ADDITIONAL CURB & GUTTER NOTES:
 1. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
 2. CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 S. GREEN STREET | LEE'S SUMMIT, MO 64063

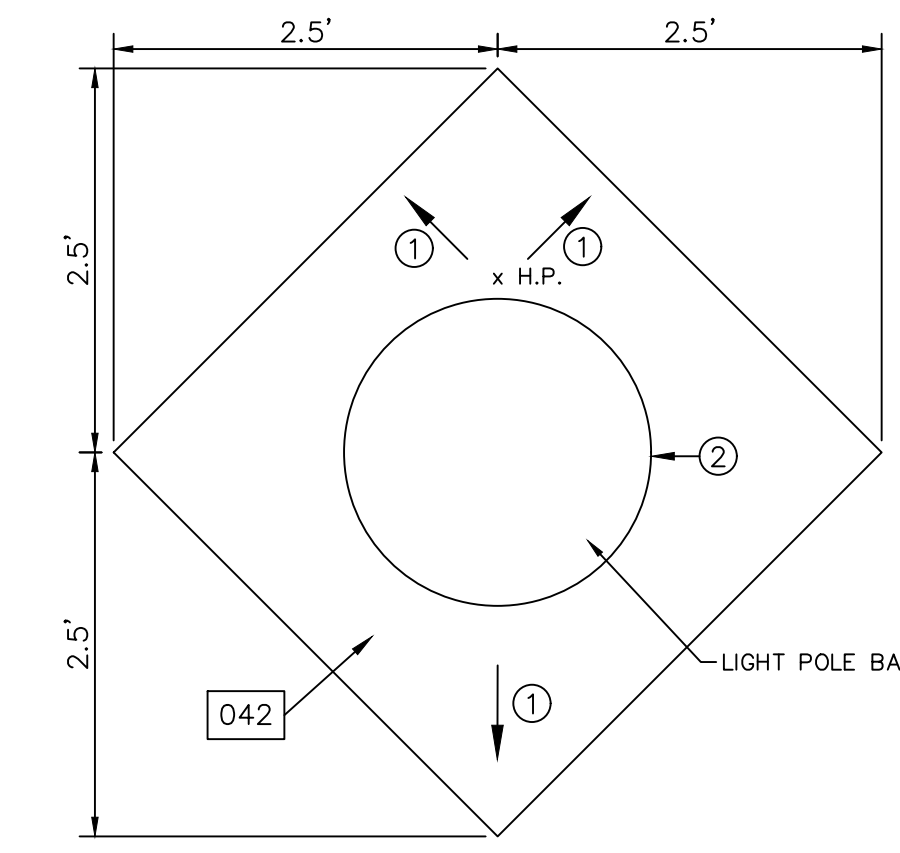
HYDRANT WITH 90 DEGREE BEND
 WAT-8

Date: 08/2023
 Drawn By: MJF
 Checked By: KLY

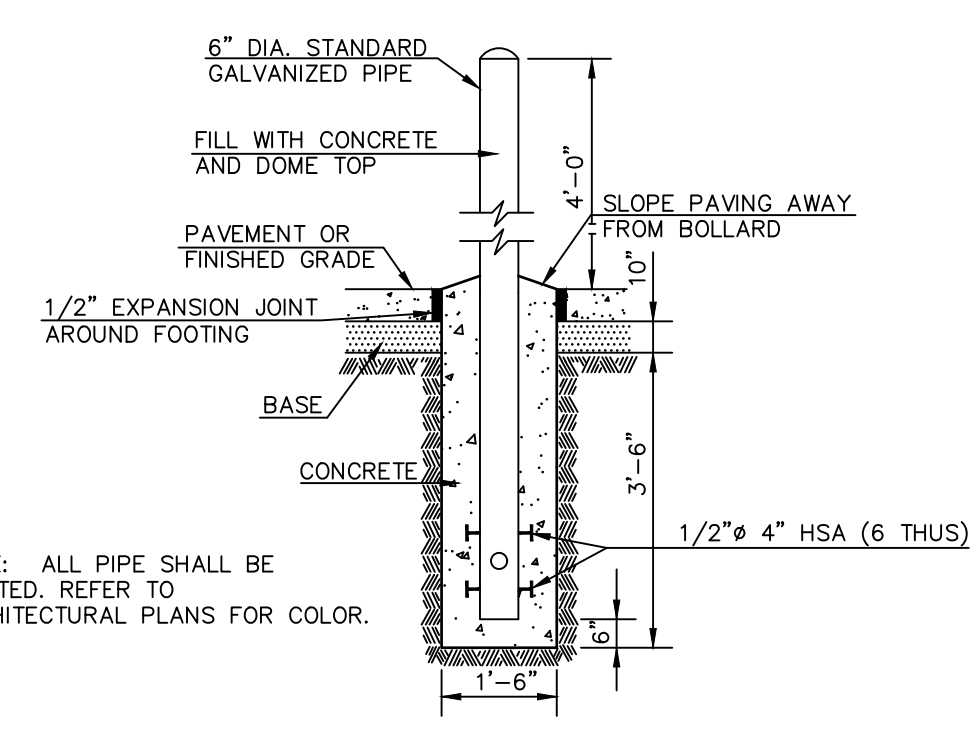


TRAFFIC CONTROL (SHOULDER WORK WITH MINOR ENCROACHMENT (REFERENCE MUTCD TA-6))

SCALE: 1" = 30'



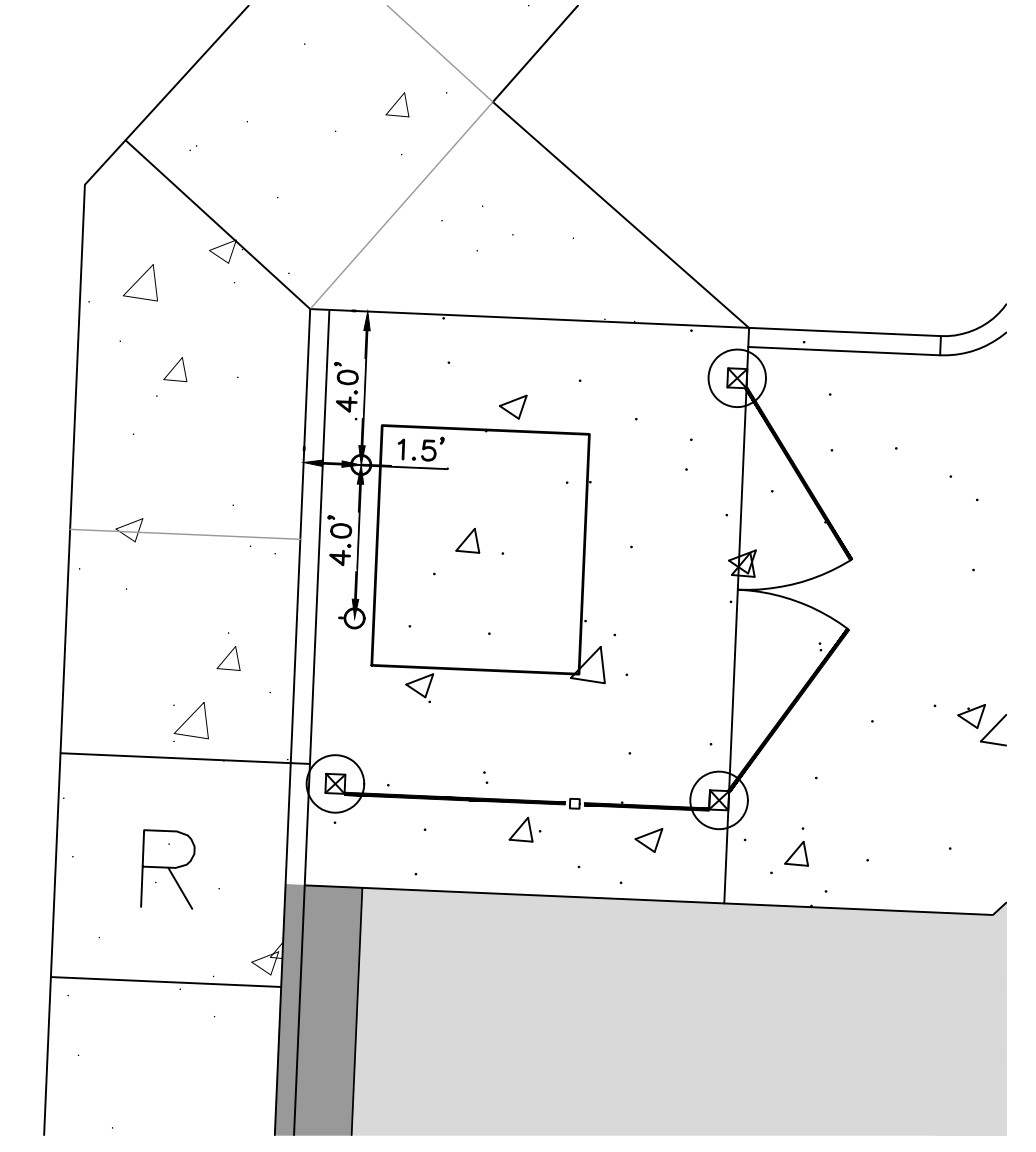
CONCRETE PAVING DETAIL FOR LIGHT POLES IN EXISTING PARKING LOT



BOLLARDS 130

NO.	FLUME WIDTH	FLUME LENGTH
416-A	5.25	6.4±
416-B	2.0	3.6±

CONCRETE DRAINAGE FLUME 416



NO.	FLUME WIDTH	FLUME LENGTH
416-A	5.25	6.4±
416-B	2.0	3.6±

STATE OF MISSOURI
 DAVID D. WOOD
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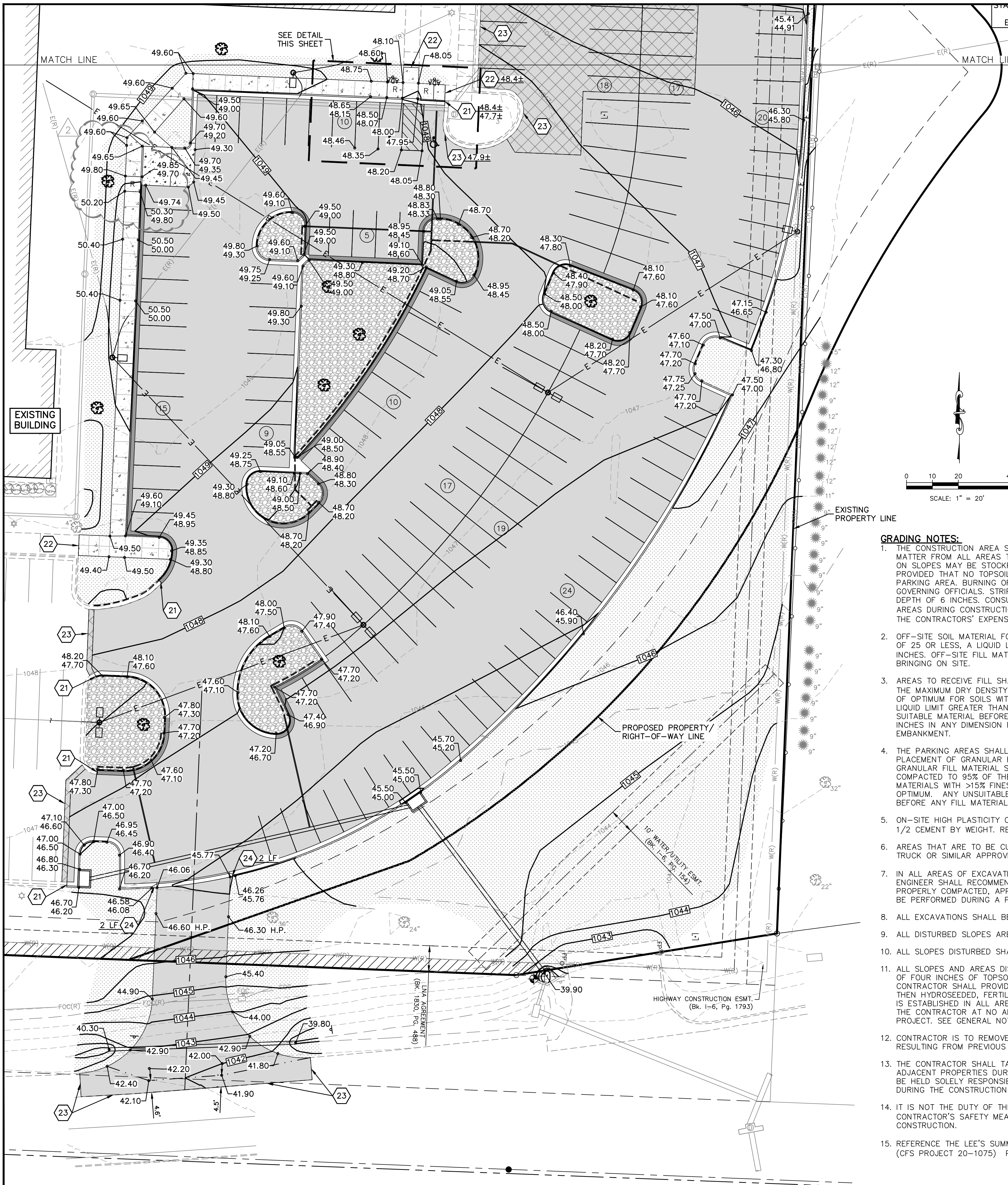
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 400 SE BLUE PARKWAY
 LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
 SITE DETAILS

PROJ. NO. C23-1880
 DESIGNER DDW DRAWN BY NUN
 CFN
 SHEET 1880DET REV
 C195 3



LEGEND:

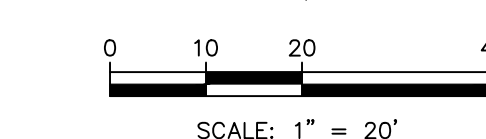
△ SECTION CORNER	◇ SPLICE BOX	△ SECTION CORNER
⊕ CONTROL POINT	UV□ UTILITY VAULT	○ MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
⊕ BENCHMARK	⊕ SANITARY SEWER MANHOLE	● 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
○ MONUMENT FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED	⊕ STORM SEWER MANHOLE	● MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
○ OVERHEAD UTILITY LINE (# OF LINES)	⊕ SANITARY SEWER CLEAN OUT	⊕ CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
☆ LIGHT POLE	⊕ DOWN SPOUT	⊕ MEASURED VALUE
□ UTILITY POLE	⊕ GRATE INLET	(C) CALCULATED
□ ELECTRIC METER	⊕ FLARED END SECTION	(D) DEED VALUE
□ AIR CONDITIONER	⊕ STREET/TRAFFIC SIGN	(P) PLAT VALUE
□ GAS METER	⊕ TRAFFIC SIGNAL LIGHT POLE	(CP) CALCULATED PLAT VALUE
□ WATER METER	⊕ HANDICAP SYMBOL	(CM) CALCULATED MEASURED VALUE
⊕ WATER LINE GATE VALVE	⊕ PARKING STALL COUNT	(R) RECORD VALUE
⊕ FIRE HYDRANT	⊕ HANDICAP SIGN	SS/E SANITARY SEWER EASEMENT
⊕ WATER SPOUT	⊕ DECIDUOUS TREE	D/E STORM DRAINAGE EASEMENT
⊕ SPRINKLER VALVE	⊕ CONIFEROUS TREE	CONCRETE PAVEMENT (042) W/JOINTING
⊕ BREAKER BOX	⊕ TREE LINE	CONCRETE SIDEWALK (055+005) W/JOINTING
⊕ ELECTRIC OUTLET	⊕ TURN LANE DIRECTION	L LANDING
DE DOOR ELEVATION (AT THRESHOLD)	⊕ ASPHALT SURFACE COURSE	R RAMP
FF FINISH FLOOR ELEVATION	⊕ FULL DEPTH ASPHALT PAVEMENT (040)	T TRANSITION
⊕ BUSH	⊕ CONCRETE CURB AND GUTTER	
⊕ BASKETBALL GOAL	⊕ CONCRETE CURB AND GUTTER WITH REVERSE FLOW	
⊕ LIMITS OF DISTURBANCE	⊕ PAINTED CURB FOR FIRE LANE	

LEGEND (PROPOSED)

- 22.9 SPOT ELEVATION (ADD 1000), TOP OF PAVEMENT
- 23.6 TOP OF CURB (ADD 1000)
- 23.1 FLOWLINE OF CURB (ADD 1000)
- FLOW DIRECTION
- 1050 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
- SWALE
- LP LOW POINT
- HP HIGH POINT
- LOC LIP OF CURB

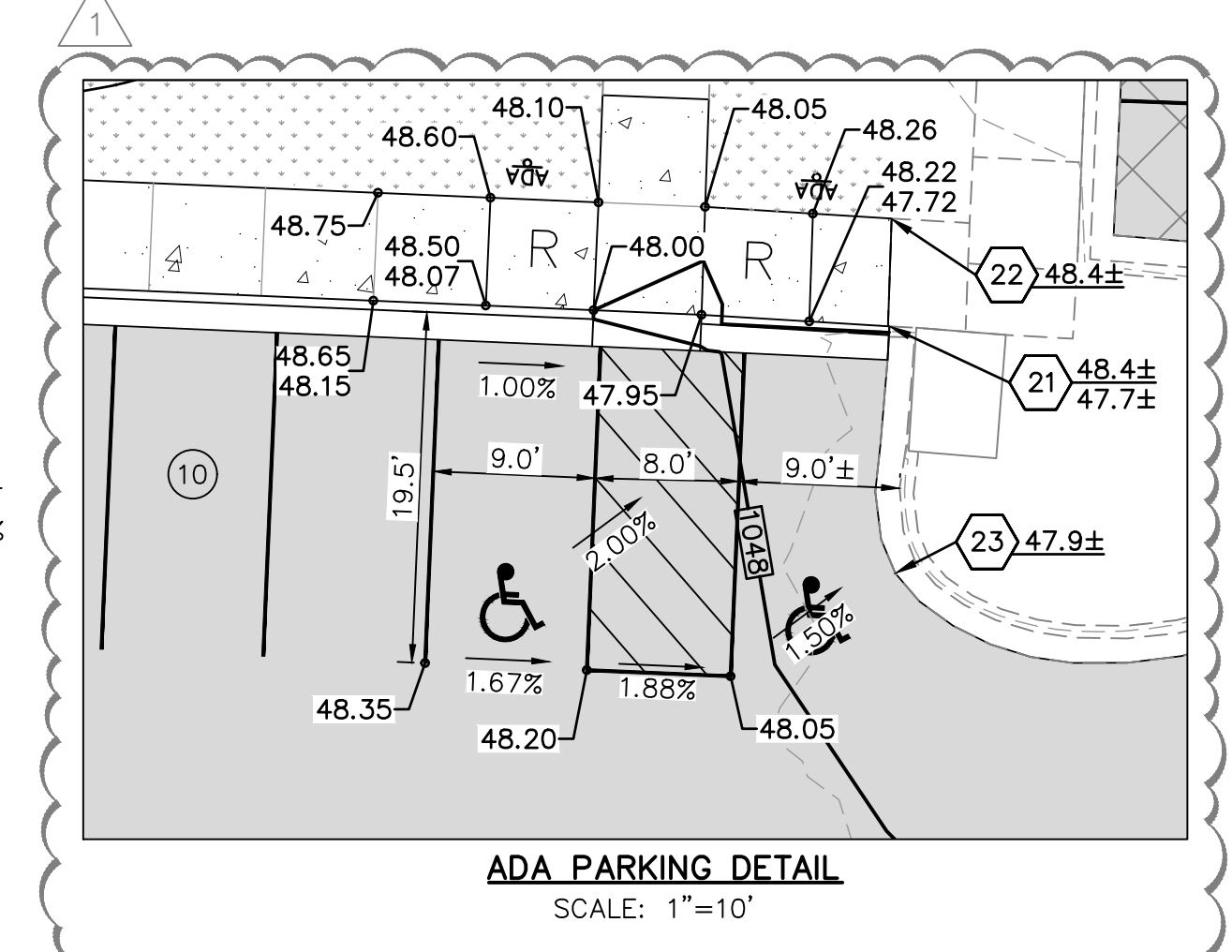
NOTES:

- 21 MATCH EXISTING CURB ELEVATION.
- 22 MATCH EXISTING SIDEWALK ELEVATION.
- 23 MATCH EXISTING PAVEMENT ELEVATION.
- 24 TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB



GRADING NOTES:

- THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON THE SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSULT WITH SCHOOL DISTRICT FOR APPROVED LOCATIONS FOR STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOACTED AT THE CONTRACTORS' EXPENSE.
- OFF-SITE SOIL MATERIAL FOR USE UNDER THE PAVEMENT SECTION SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
- AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
- THE PARKING AREAS SHALL BE EXCAVATED AS REQUIRED TO TREAT THE SOILS AND ALLOW THE PLACEMENT OF GRANULAR BASE. REFER TO THE TYPICAL PAVING SECTIONS ON SHEET C190. GRANULAR FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF -3 TO 3% OF OPTIMUM. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
- ON-SITE HIGH PLASTICITY CLAYS UNDER PAVED AREAS SHALL BE TREATED WITH 5% TYPE PORTLAND 1/2 CEMENT BY WEIGHT. REFER TO PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
- IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
- ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO THE GEOTECHNICAL REPORT.
- ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
- ALL SLOPES DISTURBED SHALL BE HYDROSEEDDED OR LANDSCAPED AS NOTED ON THE SITE PLAN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN HYDROSEEDDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. SEE GENERAL NOTE 1.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
- REFERENCE THE LEE'S SUMMIT HIGH SCHOOL ADDITIONS GEOTECHNICAL REPORT DATED JUNE 12, 2020 (CFS PROJECT 20-1075) PREPARED BY CFS ENGINEERS FOR ADDITIONAL INFORMATION.



GENERAL NOTES:

- REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.
- REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

WARRANTY / DISCLAIMER

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CAUTION - NOTICE TO CONTRACTOR

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PROJ. NO.	C23_1880	DESIGNER	DDW	DRAWN BY	NJN
CITY COMMENTS/PR NO. 2	6/24/24	CITY COMMENTS/PR NO. 1	5/16/24	ADDENDUM 2/PER CITY COMMENTS	4/23/24
ISSUED FOR BID/CITY REVIEW	3/29/24	REV	DATE	DESCRIPTION	CHK
3		2			
2		1			
0					

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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/25

LEE'S SUMMIT HS - EAST PARKING LOT
400 SE BLUE PARKWAY
LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
GRADING PLAN - SOUTH

SHEET C300 REV 3

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

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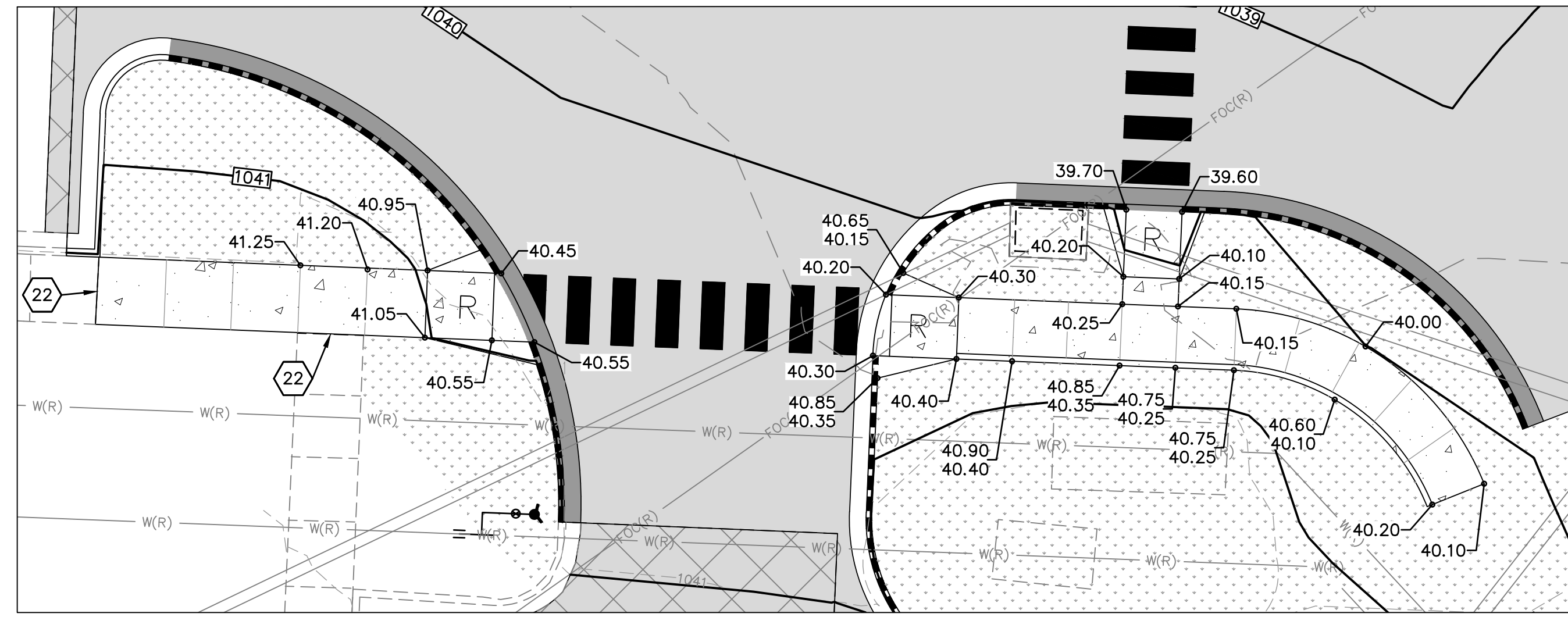
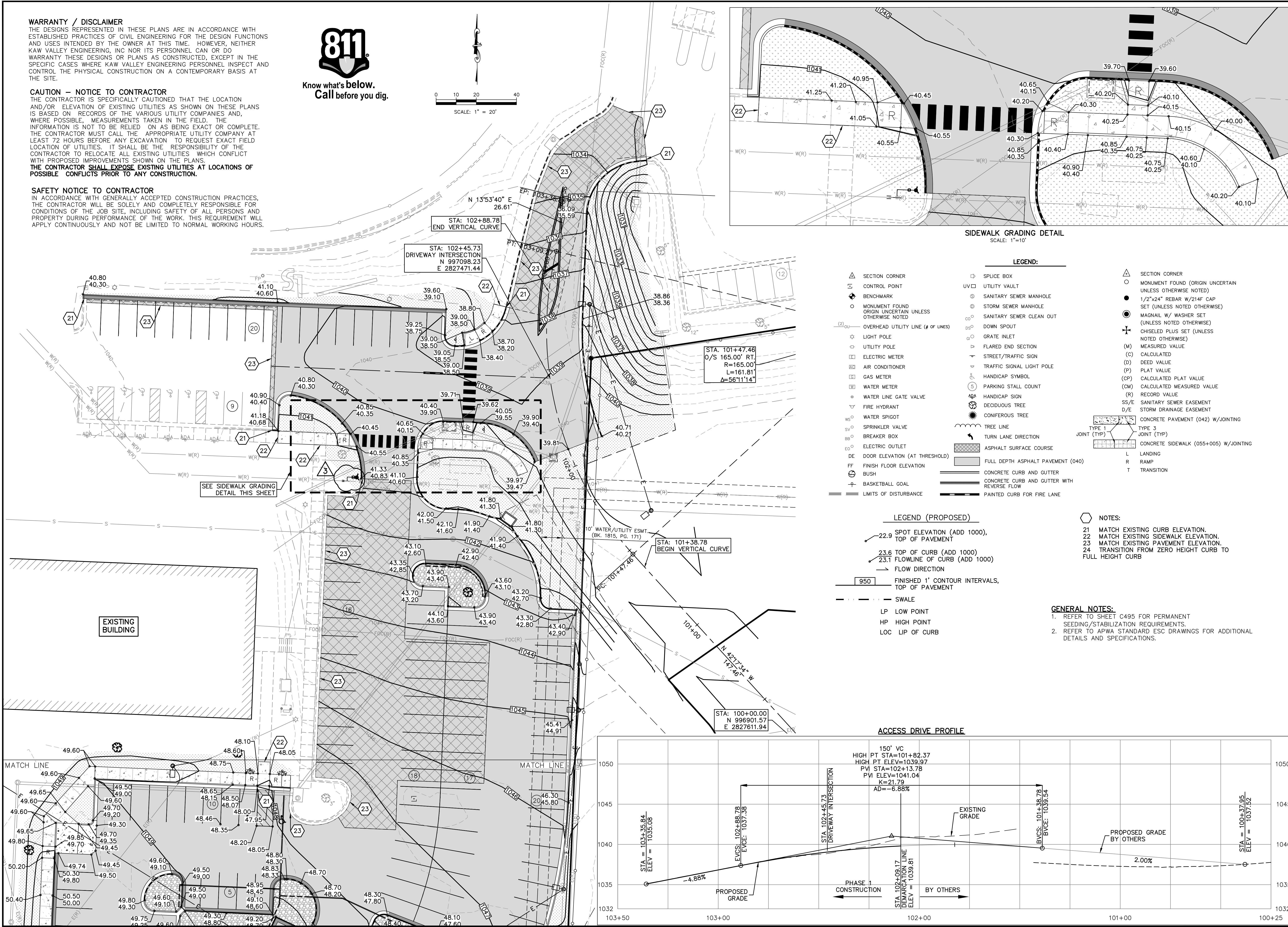
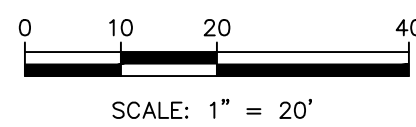
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Know what's below.
Call before you dig.



SIDEWALK GRADING DETAIL
SCALE: 1"=10'

LEGEND:

SECTION CORNER	SPLICE BOX	SECTION CORNER
CONTROL POINT	UTILITY VAULT	MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
BENCHMARK	SANITARY SEWER MANHOLE	1/2"x24" REBAR W/214' CAP SET (UNLESS NOTED OTHERWISE)
MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)	STORM SEWER MANHOLE	MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
OVERHEAD UTILITY LINE (# OF LINES)	SANITARY SEWER CLEAN OUT	DOWN SPOUT
LIGHT POLE	GRATE INLET	CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
UTILITY POLE	FLARED END SECTION	(M) MEASURED VALUE
ELECTRIC METER	STREET/TRAFFIC SIGN	(C) CALCULATED
AIR CONDITIONER	TRAFFIC SIGNAL LIGHT POLE	(D) DEED VALUE
GAS METER	HANDICAP SYMBOL	(P) PLAT VALUE
WATER METER	PARKING STALL COUNT	(CP) CALCULATED PLAT VALUE
WATER LINE GATE VALVE	HANDICAP SIGN	(CM) CALCULATED MEASURED VALUE
FIRE HYDRANT	DECIDUOUS TREE	(R) RECORD VALUE
WATER SPIGOT	CONIFEROUS TREE	SS/E SANITARY SEWER EASEMENT
SPRINKLER VALVE	TREE LINE	D/E STORM DRAINAGE EASEMENT
BREAKER BOX	TURN LANE DIRECTION	CONCRETE PAVEMENT (042) W/JOINTING
ELECTRIC OUTLET	ASPHALT SURFACE COURSE	TYPE 1 JOINT (TYP)
DOOR ELEVATION (AT THRESHOLD)	FULL DEPTH ASPHALT PAVEMENT (040)	TYPE 3 JOINT (TYP)
FINISH FLOOR ELEVATION	CONCRETE CURB AND GUTTER	CONCRETE SIDEWALK (055+005) W/JOINTING
BUSH	CONCRETE CURB AND GUTTER WITH REVERSE FLOW	L LANDING
BASKETBALL GOAL	PAINTED CURB FOR FIRE LANE	R RAMP
LIMITS OF DISTURBANCE		T TRANSITION

LEGEND (PROPOSED)

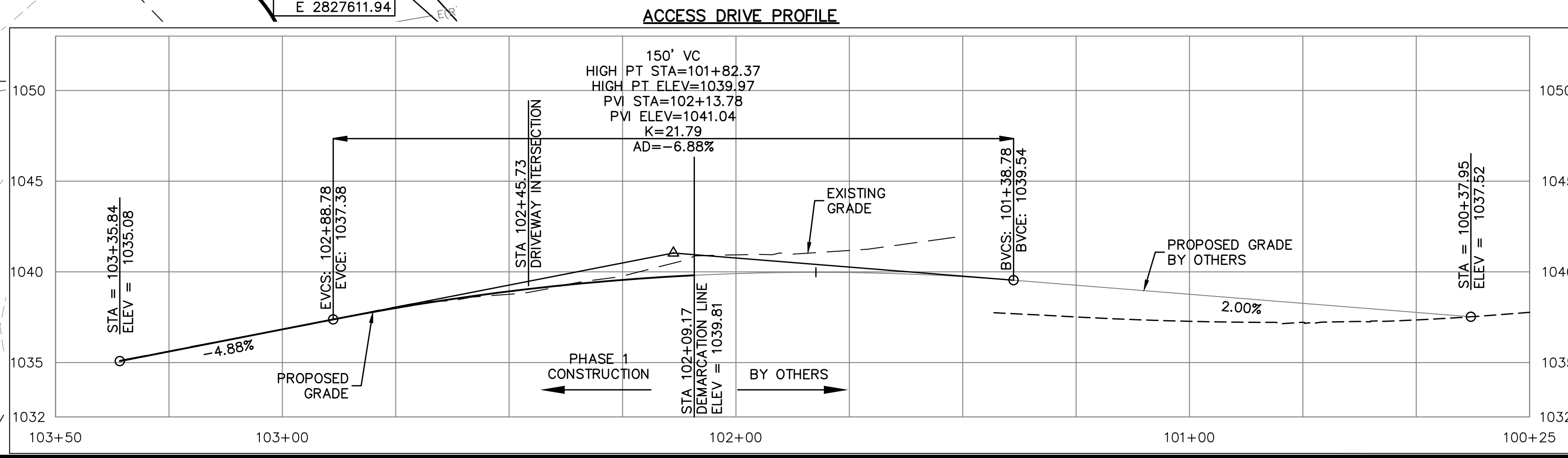
22.9 SPOT ELEVATION (ADD 1000), TOP OF PAVEMENT	23.6 TOP OF CURB (ADD 1000)	23.1 FLOWLINE OF CURB (ADD 1000)
FLOW DIRECTION	FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT	SWALE
LP LOW POINT	HP HIGH POINT	LOC LIP OF CURB

NOTES:

- 21 MATCH EXISTING CURB ELEVATION.
- 22 MATCH EXISTING SIDEWALK ELEVATION.
- 23 MATCH EXISTING PAVEMENT ELEVATION.
- 24 TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB

GENERAL NOTES:

- REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.
- REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.





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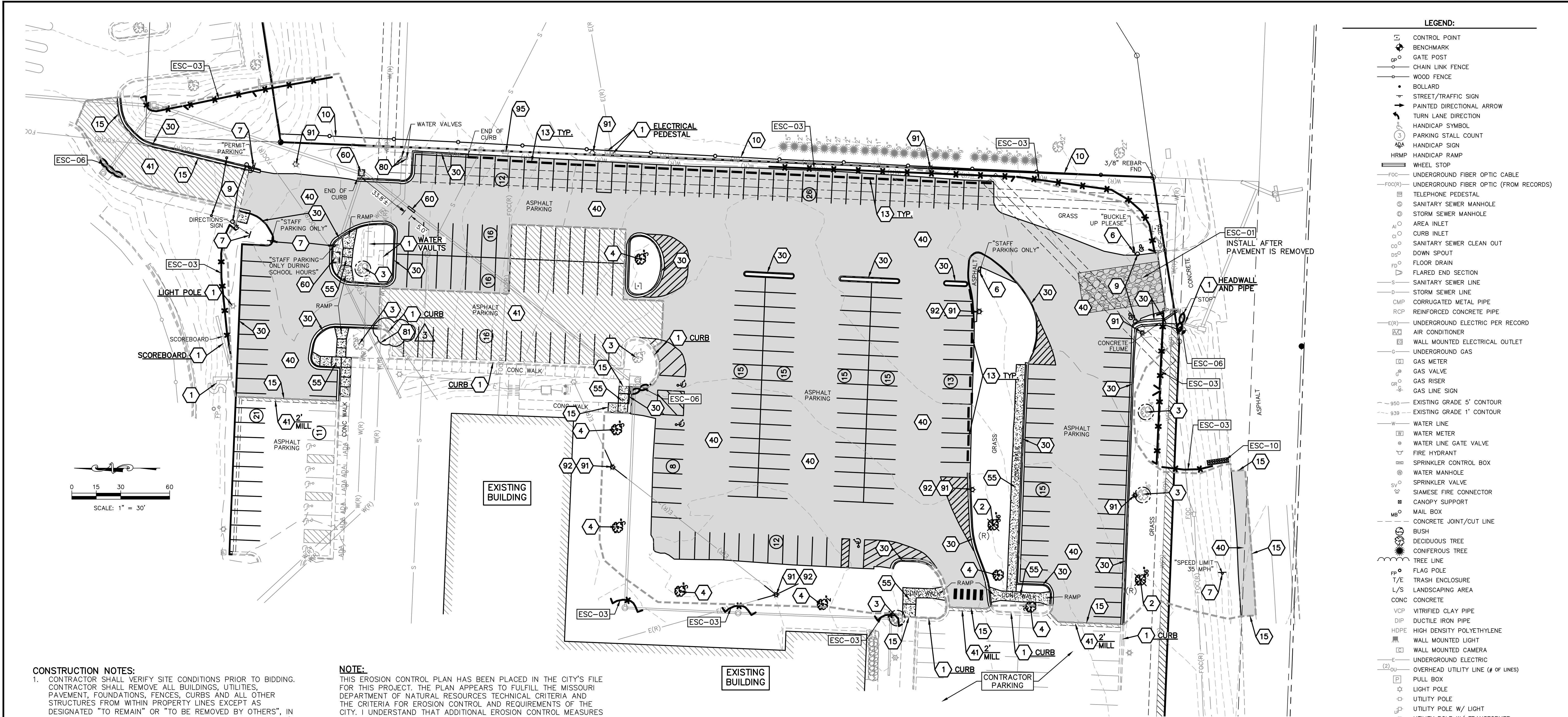
KAW VALLEY ENGINEERING

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LEE'S SUMMIT HS - EAST PARKING LOT
400 SE BLUE PARKWAY
LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
GRADING PLAN - NORTH

PROJ. NO.	C23.1880
DESIGNER	DDW
CFN	NJN
SHEET	1880GP
C310	3



- LEGEND:**
- CONTROL POINT
 - BENCHMARK
 - GATE POST
 - CHAIN LINK FENCE
 - WOOD FENCE
 - BOLLARD
 - STREET/TRAFFIC SIGN
 - PAINTED DIRECTIONAL ARROW
 - TURN LANE DIRECTION
 - HANDICAP SYMBOL
 - PARKING STALL COUNT
 - ABA HANDICAP SIGN
 - HRMP HANDICAP RAMP
 - WHEEL STOP
 - FOC UNDERGROUND FIBER OPTIC CABLE
 - FOC(R) UNDERGROUND FIBER OPTIC (FROM RECORDS)
 - TELEPHONE PEDESTAL
 - SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - AREA INLET
 - CURB INLET
 - SANITARY SEWER CLEAN OUT
 - DOWN SPOUT
 - FLOOR DRAIN
 - FLARED END SECTION
 - SANITARY SEWER LINE
 - STORM SEWER LINE
 - CMP CORRUGATED METAL PIPE
 - RCP REINFORCED CONCRETE PIPE
 - E(R) UNDERGROUND ELECTRIC PER RECORD
 - AIR CONDITIONER
 - WALL MOUNTED ELECTRICAL OUTLET
 - UNDERGROUND GAS
 - GAS METER
 - GAS VALVE
 - GAS RISER
 - GAS LINE SIGN
 - 950 EXISTING GRADE 5' CONTOUR
 - 939 EXISTING GRADE 1' CONTOUR
 - W WATER LINE
 - WATER METER
 - WATER LINE GATE VALVE
 - FIRE HYDRANT
 - SPRINKLER CONTROL BOX
 - WATER MANHOLE
 - SPRINKLER VALVE
 - SIAMESE FIRE CONNECTOR
 - CANOPY SUPPORT
 - MAIL BOX
 - MB CONCRETE JOINT/CUT LINE
 - BUSH
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - TREE LINE
 - FLAG POLE
 - T/E TRASH ENCLOSURE
 - L/S LANDSCAPING AREA
 - CONC CONCRETE
 - VCP VITRIFIED CLAY PIPE
 - DIP DUCTILE IRON PIPE
 - HDPE HIGH DENSITY POLYETHYLENE
 - WALL MOUNTED LIGHT
 - WALL MOUNTED CAMERA
 - UNDERGROUND ELECTRIC
 - OVERHEAD UTILITY LINE (# OF LINES)
 - P PULL BOX
 - LIGHT POLE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - UTILITY POLE W/ TRANSFORMER
 - GUY ANCHOR
 - W(R) WATER LINE PER RECORD
 - LW LOWEST WIRE HEIGHT
 - ELECTRIC METER
 - UNDERGROUND ELECTRIC PEDESTAL
 - SPEAKER BOX
 - BREAKER BOX
 - G(R) UNDERGROUND GAS PER RECORD
 - S(R) SANITARY SEWER LINE PER RECORD
 - D(R) STORM SEWER LINE PER RECORD
 - ASPHALT PAVING TO BE REMOVED
 - CONCRETE PAVING/SIDEWALKS TO BE REMOVED
 - AREA TO BE MILLED

- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF FEBRUARY 19, 2024.
 - ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
 - DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - COORDINATE ELECTRICAL DEMO WITH E SERIES SHEETS.

NOTE:
THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

- GENERAL NOTES:**
- REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.
 - REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

- DESCRIPTION OF WORK — PRE CONSTRUCTION AND PHASE I:**
- OBTAIN REVIEW COMPLIANCE AND APPLICABLE PERMITS.
 - HOLD PRE-CONSTRUCTION CONFERENCE.
 - INSTALL PERIMETER EROSION CONTROL MEASURES, INLET PROTECTION DOWNSTREAM OF DEMOLITION AREAS AND TREE PROTECTION FENCING WITHIN CLEARING LIMITS AS APPLICABLE.
 - SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH LEE'S SUMMIT SCHOOL DISTRICT (LSSD). MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC ACCESS TO CAMPUS AS DIRECTED BY LSSD.
 - PROVIDE STABILIZED CONSTRUCTION INTO WORK AREA AS REQUIRED.

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- DEMOLITION**
- TO REMAIN.
 - REMOVE TREES/BUSHES/LANDSCAPING/SITE FURNITURE. (COORDINATE WITH PROJECT SITE PLAN)
 - TREES TO REMAIN. PROVIDE TREE PROTECTION FENCE AT DRIPLINE. A MINIMUM RADIUS OF 10' FROM TREE SHALL BE PROVIDED ANYWHERE WHERE PORTIONS OF DRIPLINE ARE NOT FENCED OFF. A LAYER OF MULCH (6" MINIMUM) SHALL BE PROVIDED TO PROTECT ROOT SYSTEM FROM DAMAGE.
 - RELOCATE SMALL CALIPER TREES. SEE SHEET C100.
 - SIGN TO BE REMOVED
 - SIGN TO BE RELOCATED
 - BOLLARD/SWING GATE TO BE REMOVED. BACKFILL AND COMPACT FOOTINGS.
 - REMOVE CHAINLINK FENCE AND POST. BACKFILL AND COMPACT FOOTINGS.
 - CONCRETE WHEEL STOP TO BE REMOVED.
 - SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 AND C200 FOR LIMITS.
 - CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 AND C200 FOR LIMITS.
 - CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
 - CONTRACTOR TO MILL ASPHALT SURFACE, MINIMUM 2" OUTSIDE ASPHALT REMOVAL. REFER TO C100 AND C200 SHEETS FOR LIMITS. REFER TO SECTIONS A-A AND B-B ON SHEET C190.
 - CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
 - CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER OR STRUCTURE. REFER TO C600 SHEETS FOR ADDITIONAL INFORMATION.
 - CONTRACTOR TO RESET EXISTING WATER VALVES TO GRADE. SEE SHEET C310.
 - LOCATE, CUT, AND REMOVE EXISTING 8" FIRE LINE AS NEEDED TO INSTALL 8"x6" TEE FOR NEW FIRE HYDRANT ASSEMBLY. SEE SHEETS C100 & C195 FOR ADDITIONAL INFORMATION.
 - REMOVE SITE LIGHTING REFER TO SITE ELECTRICAL PLAN. COORDINATE WITH EVERGY AS APPLICABLE.
 - REMOVE FUTURE AND SALVAGE FOR REINSTALL.
 - CONTRACTOR TO MODIFY EXISTING FIBER OPTICS VAULT TO MEET NEW GRADE. SEE SHEET C310.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C490 AND C495.

- ESC-01 CONSTRUCTION ENTRANCE
- ESC-03 SEDIMENTATION FENCE
- ESC-06 CURB INLET PROTECTION
- ESC-10 ROCK DITCH CHECKS

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 1218 EXISTING GROUND CONTOUR (1' INTERVALS)
 - 1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
 - GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)
 - OTPF FENCE (OTPF)
 - SEDIMENTATION FENCE (ESC-03)
 - LIMITS OF DISTURBANCE
 - (R) X INDICATES TREE/SHRUB TO BE REMOVED
 - CONSTRUCTION ENTRANCE AND STAGING (ESC-01)
 - ROCK DITCH CHECK (ESC-10)

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PROJ. NO.	C23-1880
DESIGNER	DDW
DRAWN BY	NJN
CFN	1880DEMO
SHEET	C400
REV	3

LEE'S SUMMIT HS - EAST PARKING LOT
400 SE BLUE PARKWAY
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CONSTRUCTION DOCUMENTS PHASE I
DEMOLITION & EROSION CONTROL PLAN PH I

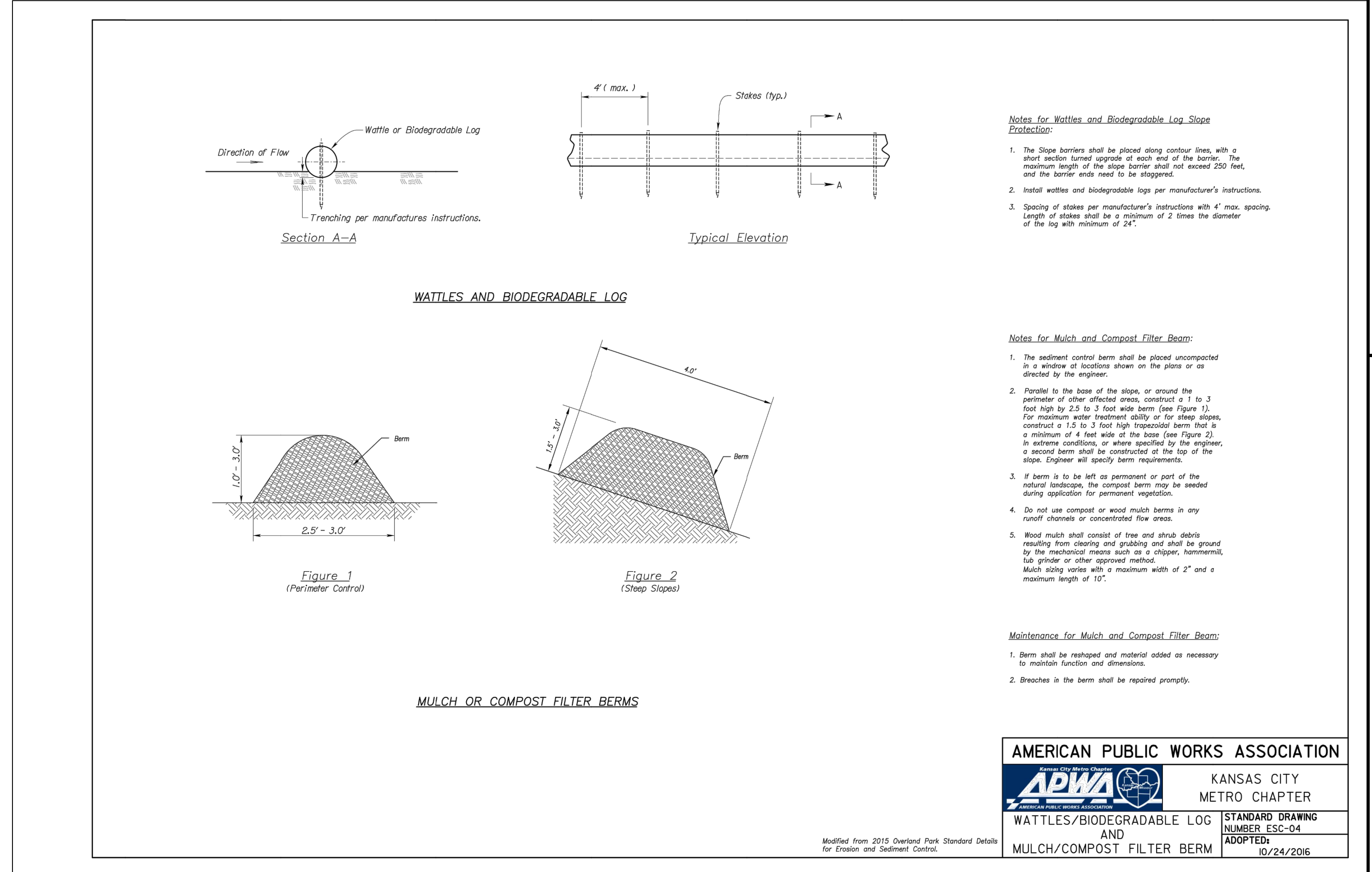
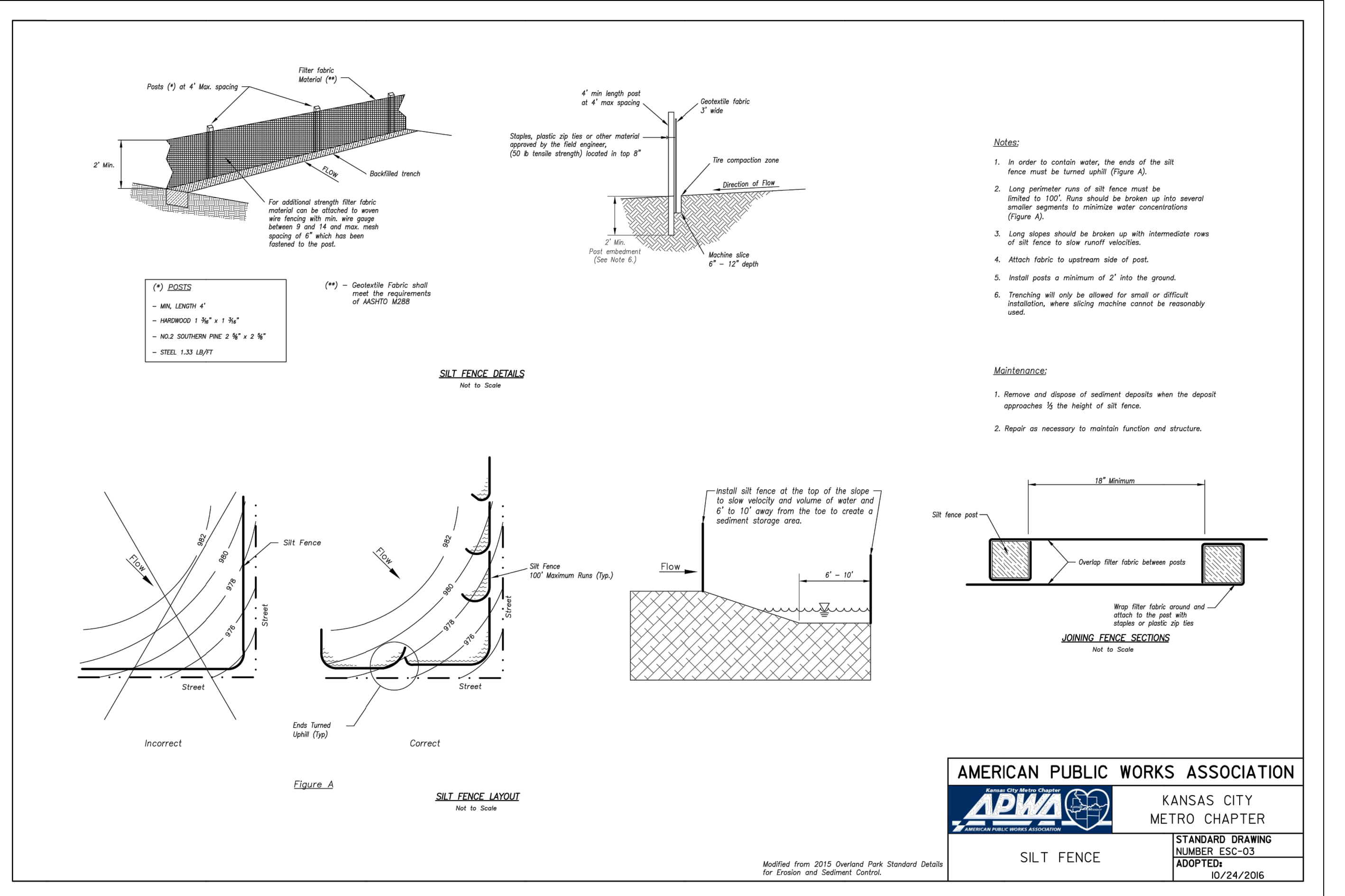
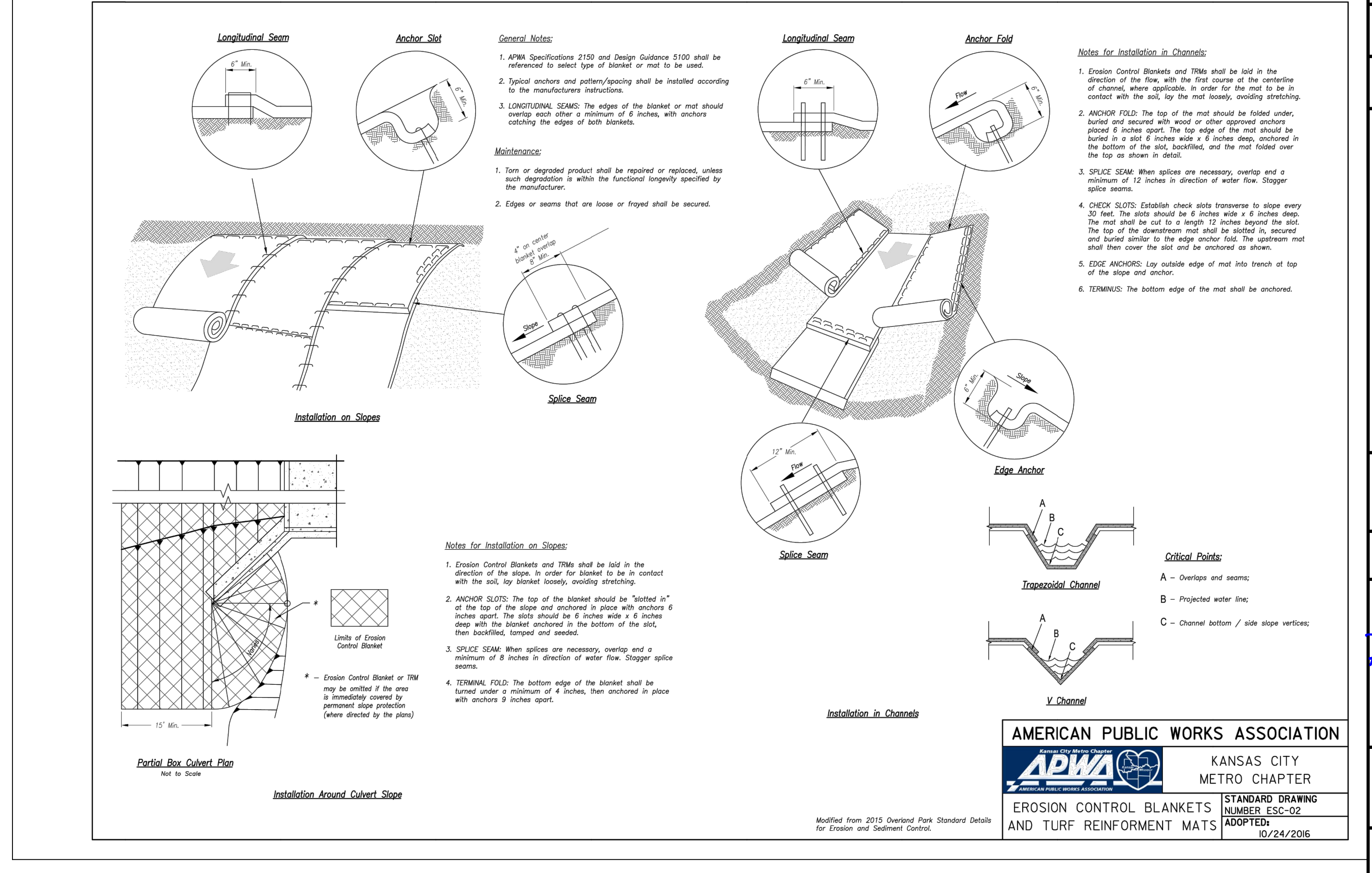
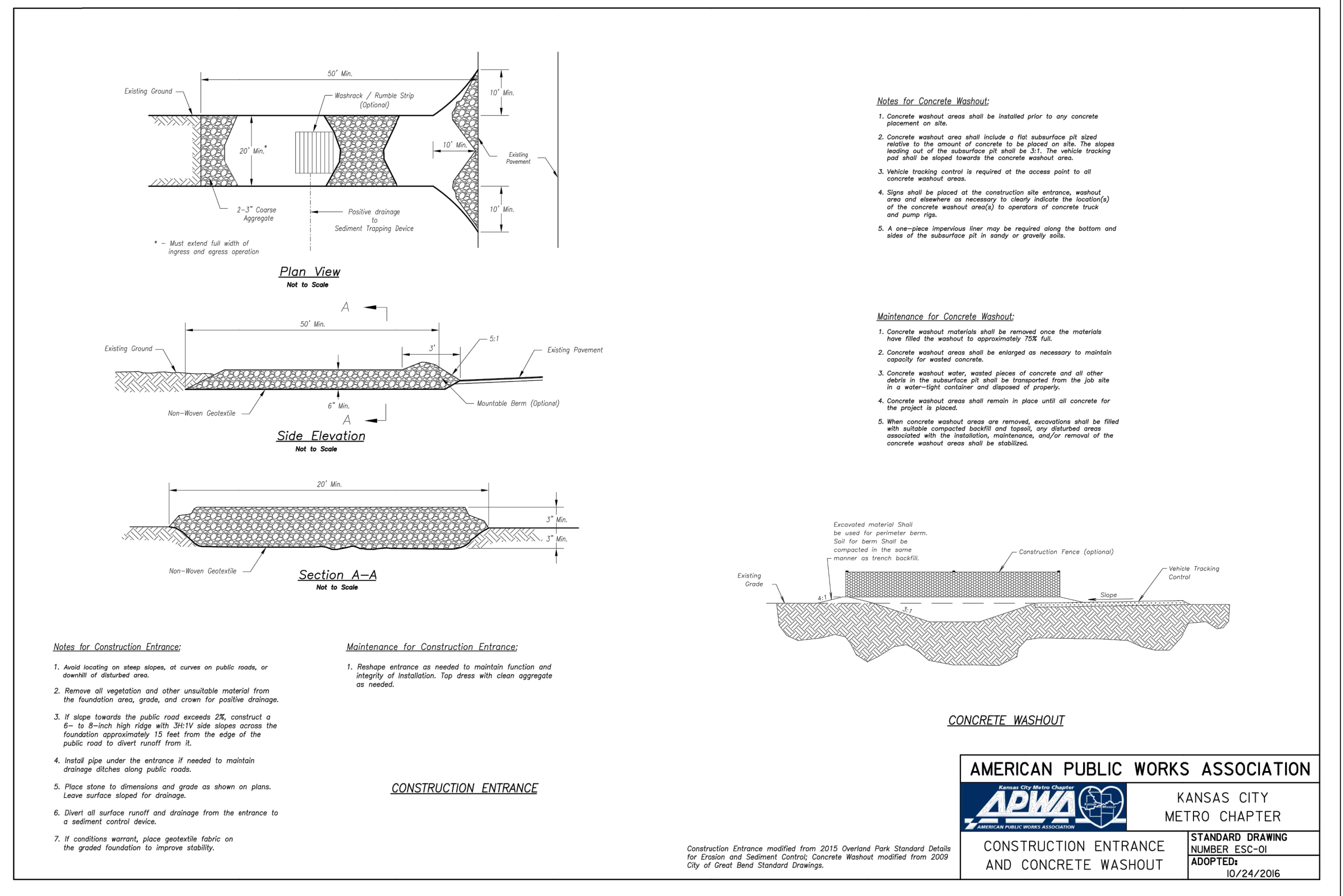
DAVID D. WOOD
ENGINEER
MO # 2011037427

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LENEXA, KANSAS 66215
PH: (913) 894-5150
www.kaveeng.com | www.kaveeng.com

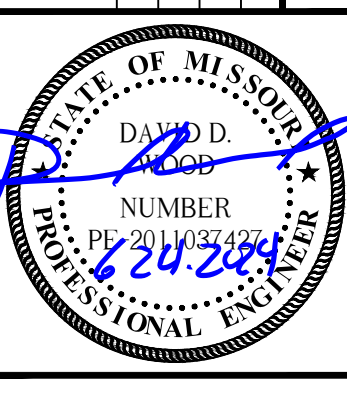
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/25.

811
Know what's below.
Call before you dig.

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REV	DATE	DESCRIPTION
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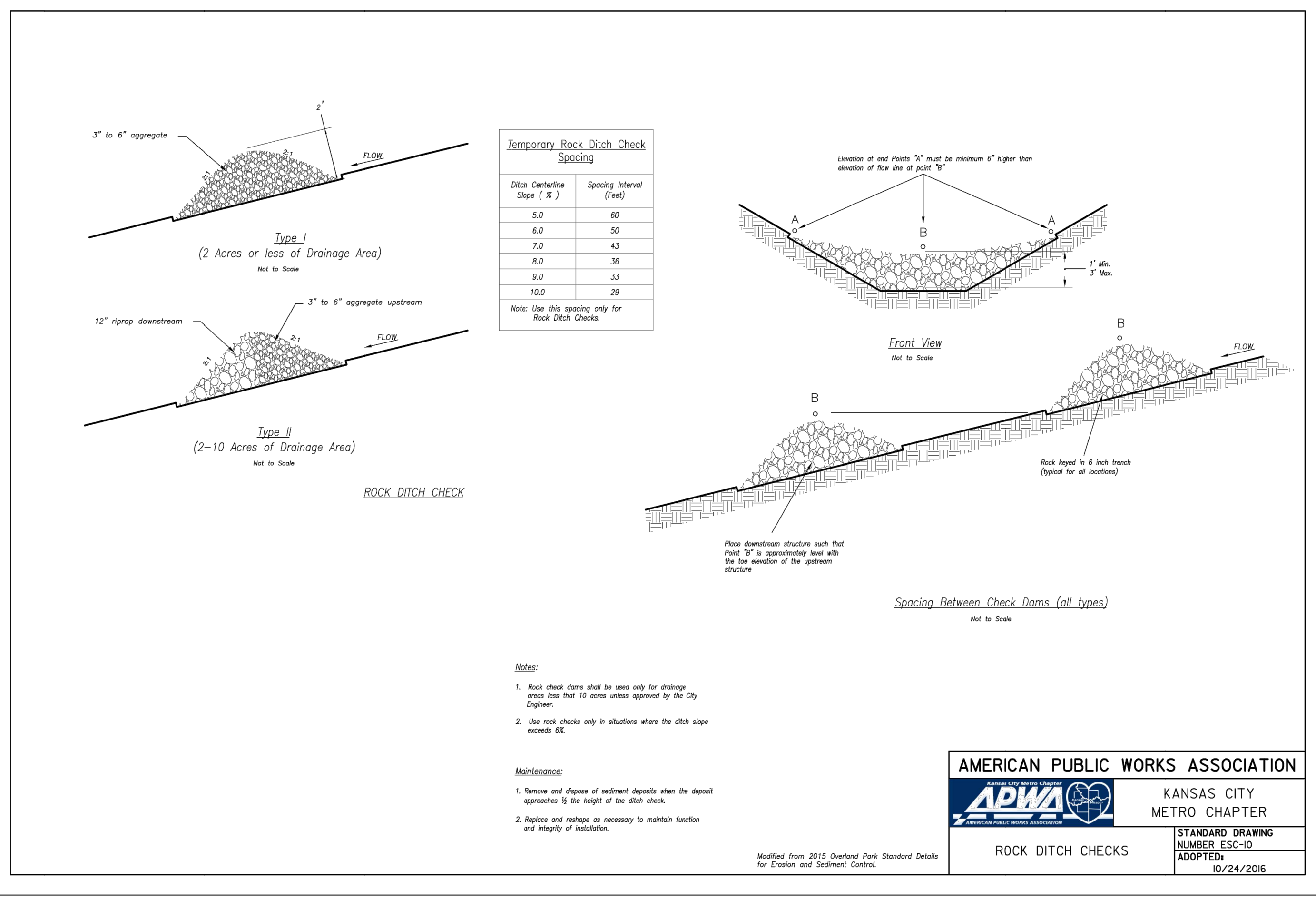
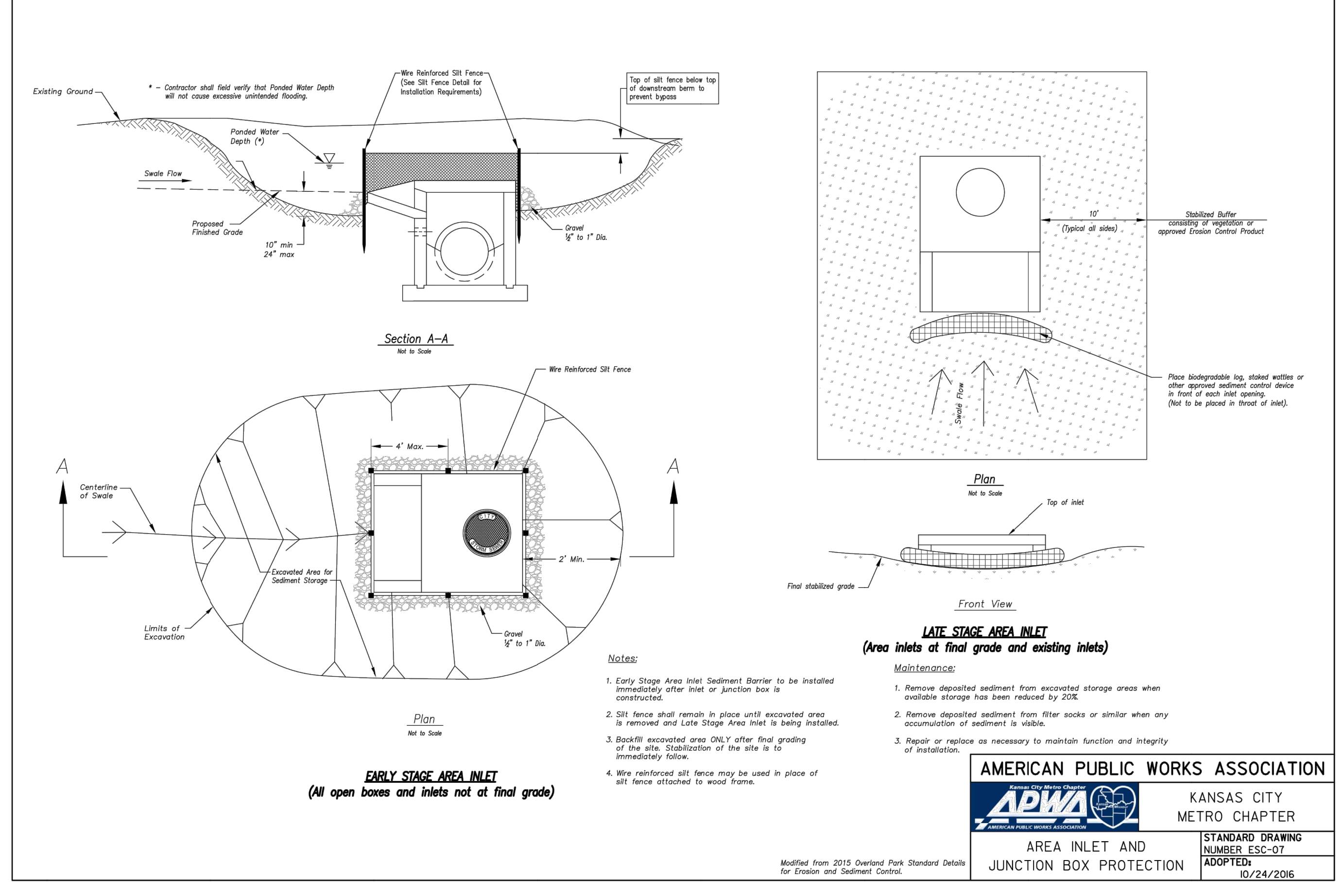
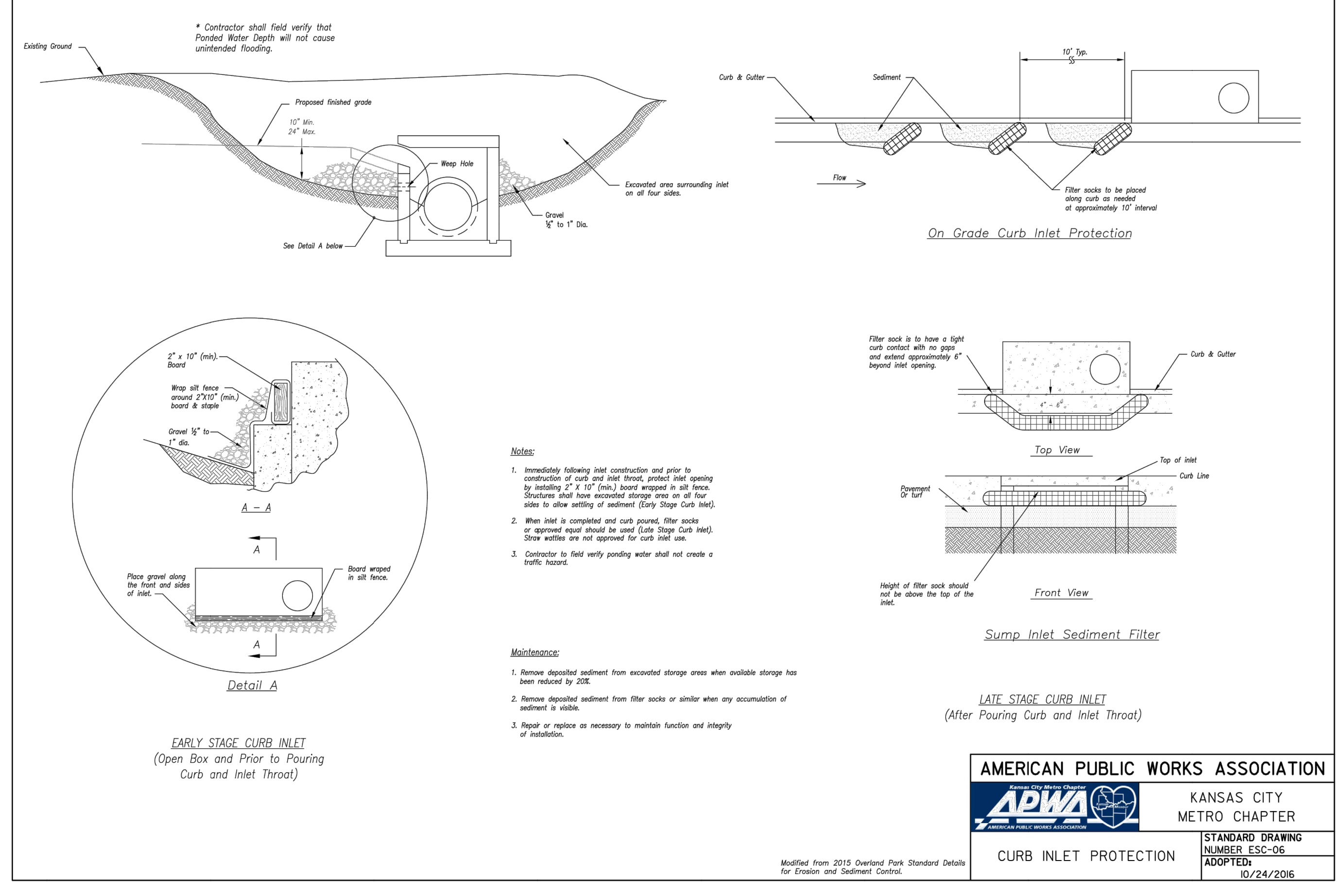
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LEE'S SUMMIT HS - EAST PARKING LOT
 400 SE BLUE PARKWAY
 LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
EROSION CONTROL DETAILS

PROJ. NO.	C23.1880
DESIGNER	DDW
DRAWN BY	NJN
CFN	
SHEET	1880DET
	C490
REV	3



PERMANENT SEEDING:

DISTURBED AREAS ARE TO BE SEEDED AS NOTED. APPLICATION OF SEED SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SEED MIX TO BE USED SHALL BE IN ACCORDANCE WITH APWA SPECIFICATION 2401.2 A1, SEEDING MIX # 1 (TURF AREAS) WITH THE FOLLOWING EXCEPTIONS. BLEND SHALL BE 90% FESCUE (THREEPART) AND 10% KENTUCKY BLUEGRASS.

PREPARATION OF THE SEED BED

UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS AND SPECIFICATIONS ALL DISTURBED AREAS SHALL BE PREPARED FOR SEEDING AND SODDING IN ACCORDANCE WITH KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2406. THE AREA TO BE SEEDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISCING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

REFERENCE APWA SPECIFICATIONS SECTION 2401.3 FOR ADDITIONAL INFORMATION.

PLACEMENT OF SEED

SEEDING SHALL BE ACCOMPLISHED BY HYDROSEEDING. REFERENCE APWA SECTION 2404. CONSTRUCTION SHALL COMPLY WITH SECTION 2404.3.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

REFERENCE APWA SPECIFICATIONS SECTION 2401.3 FOR ADDITIONAL INFORMATION RELATED TO PREPARATION OF SEED BED FERTILIZATION AND MAINTENANCE PERIOD.

FINAL ACCEPTANCE

THE MDRN SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN "OPEN" STATUS UNTIL FINAL ACCEPTANCE IS PROVIDED BY THE OWNER IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2400.6.

SEDIMENTATION AND EROSION CONTROL MEASURES:

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE AS A MINIMUM, BUT NOT BE LIMITED TO:

- TEMPORARY SEDIMENT FENCE - SILT FENCE WILL BE INSTALLED AS SHOWN ON THE DRAWING. THIS WILL SLOW RUNOFF VELOCITIES AND MINIMIZE EROSION OF THE SLOPES SHOWN ON THE PLANS.
- TEMPORARY INLET PROTECTION.

PERMANENT SEDIMENTATION AND EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO:

- STABILIZATION OF PIPE INLETS AND OUTLETS WHERE INDICATED.
- HYDROSEEDING OR LANDSCAPING OF ALL DISTURBED AREAS.

EROSION CONTROL NOTES:

- PROPERTY LINE IS LIMIT OF DISTURBANCE EXCEPT AS SHOWN.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH VEGETATION WITHIN 14 DAYS OF COMPLETION OF WORK. AS WORK PROGRESSES AROUND SITE, SURROUNDING AREAS SHALL BE TEMPORARILY SEEDED.
- EROSION CONTROLS SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR.
- TEMPORARY SEDIMENT FENCE OR WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
- MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
- INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ONGOING THROUGHOUT THE LIFE OF CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR OWNER'S INSPECTION AGENCY.

PROJ. NO.	C23-1880
DESIGNER	DDW
DRAWN BY	NJN
CFN	
SHEET	1880DET
	C495
REV	3

LEE'S SUMMIT HS - EAST PARKING LOT
 400 SE BLUE PARKWAY
 LEE'S SUMMIT, MISSOURI 64063

CONSTRUCTION DOCUMENTS PHASE I
 EROSION CONTROL DETAILS

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STATE OF MISSOURI
 DAVID D. WOOD
 ENGINEER
 NUMBER
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 EXPIRES 12/31/25

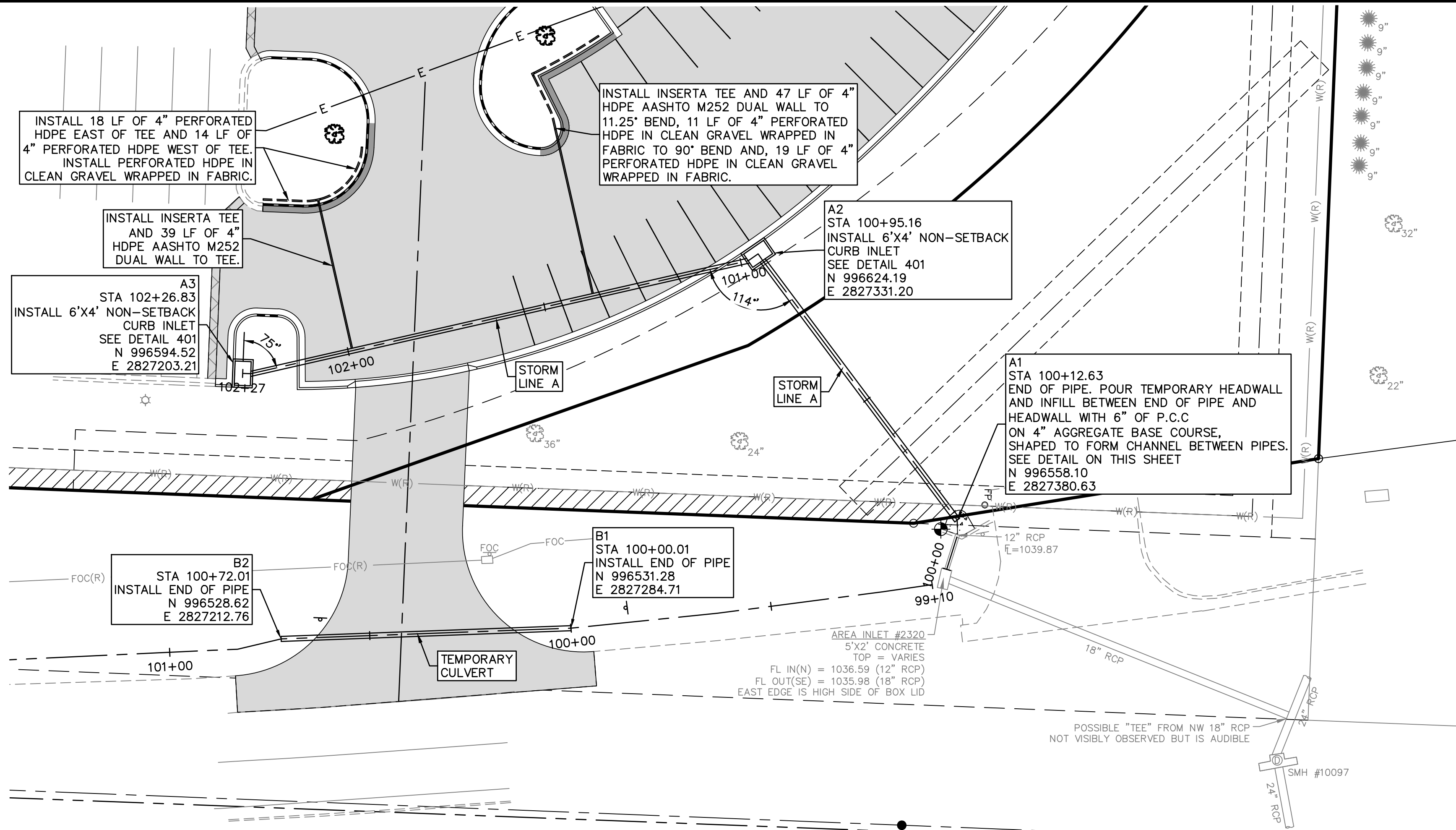
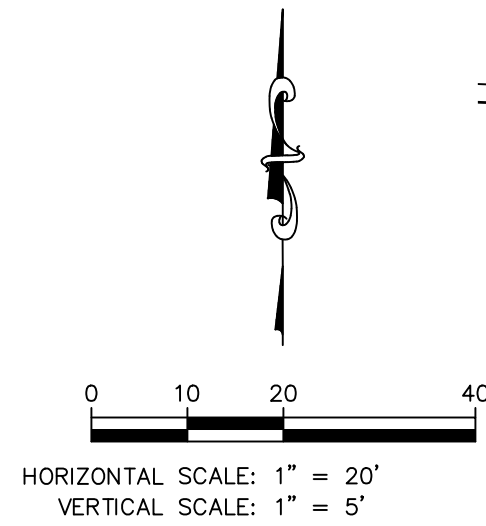
AMERICAN PUBLIC WORKS ASSOCIATION
APWA KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-07 ADOPTED 10/24/2016

SAFETY NOTICE TO CONTRACTOR
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WARRANTY / DISCLAIMER
 THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

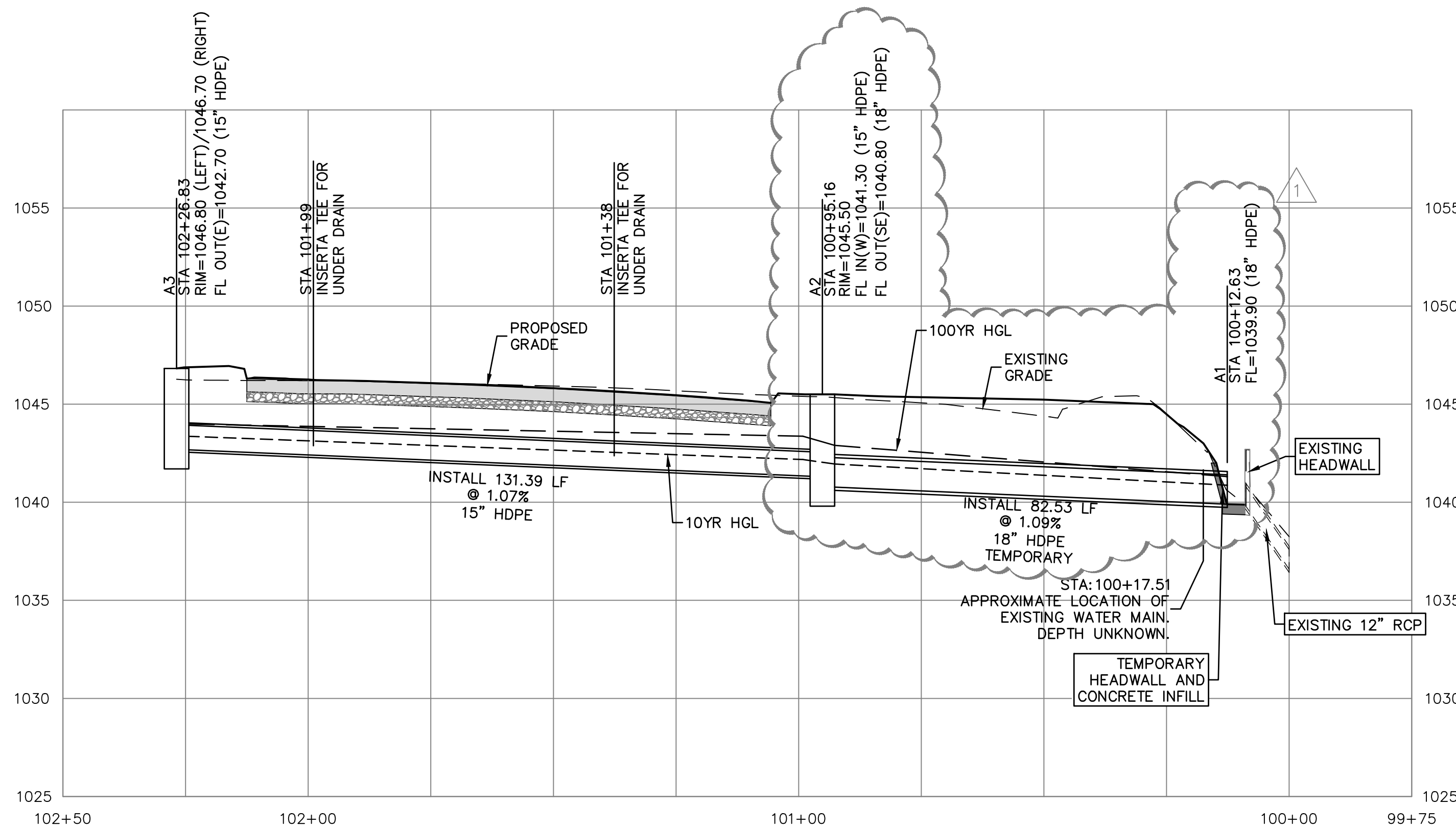
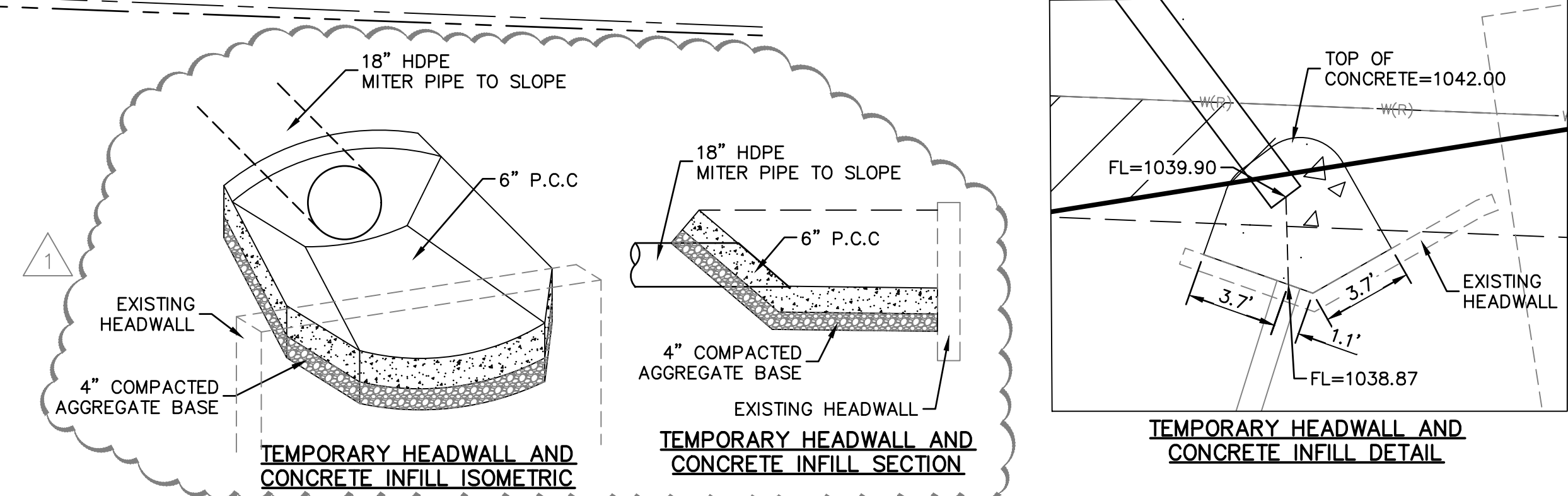
CAUTION - NOTICE TO CONTRACTOR
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THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

□ DETAILS SEE SHEET C690
 401 NON-SETBACK CURB INLET
 402 JUNCTION BOX/GRATE INLET

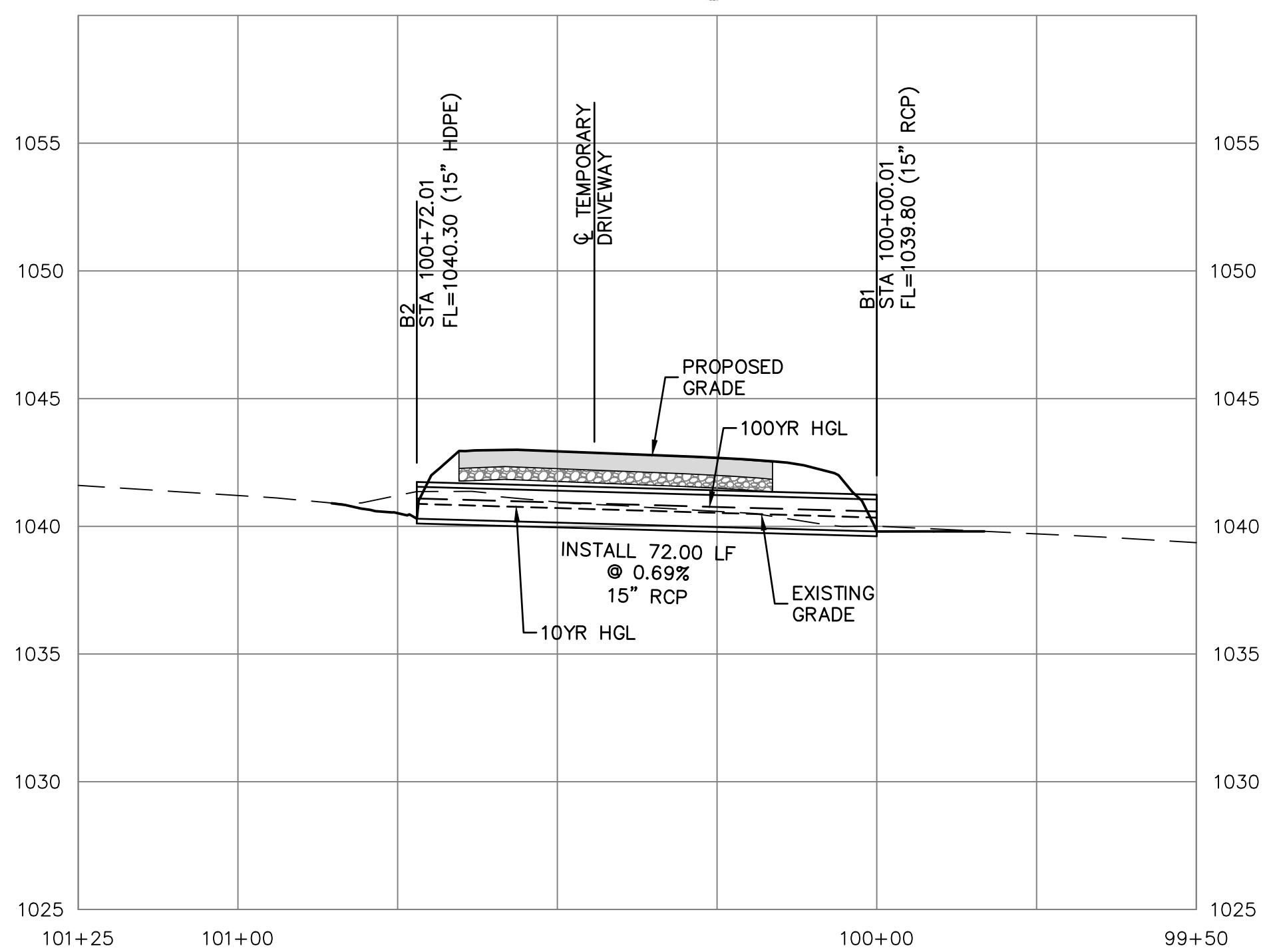


- STORM SEWER CONSTRUCTION NOTES:**
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 - PIPE FOR SEWER CONSTRUCTION SHALL CONFORM TO SECTION 2602 UNLESS NOTED OTHERWISE.
 - A MINIMUM OF 18" COVER SHALL BE PROVIDED PRIOR TO AND MAINTAINED AFTER INSTALLATION OF STORM SEWER.
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 - ALL JUNCTION BOXES/AREA INLETS HAVE ONE COORDINATE PROVIDED AT THE CENTER OF STRUCTURE. SEE PLAN FOR CLARIFICATION. ORIENT STRUCTURES PARALLEL TO ADJACENT CURB, BUILDING OR WALL FACE, UNLESS NOTED OTHERWISE.
 - RIM ELEVATION IS PROVIDED AT COORDINATE, UNLESS NOTED OTHERWISE. CONTRACTOR TO ADJUST ELEVATION OF RIM AS REQUIRED TO MATCH SLOPE OF ADJACENT CURB LINE. REFER TO GRADING PLAN (C300 SERIES SHEETS).
 - ALL EXISTING UTILITIES INDICATED ON THE DRAWING ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
 - ALL BACKFILL SHALL BE COMPACTED TO 95 PERCENT STANDARD DENSITY AT OPTIMUM MOISTURE.
 - ALL EXCAVATION BENEATH THE STREETS AND PARKING LOTS FOR DRAINAGE PIPE LESS THAN 4'-0" IN DIAMETER SHALL BE BACKFILLED WITH AGGREGATE TO FOUR FEET (4') PAST BACK OF CURB IN ACCORDANCE WITH APWA SPECIFICATIONS SECTION 2102.4J.
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 - SEE LANDSCAPE PLAN BED PIPE DETAIL ON SHEET C690.

PRIVATE STORM SEWER LINES A AND B PLAN

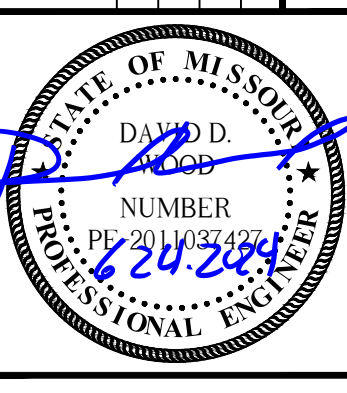


PRIVATE STORM SEWER LINE A PROFILE



PRIVATE STORM SEWER LINE B PROFILE
 *CONTRACTOR MAY ADJUST LENGTH TO USE STOCK LAYING LENGTHS

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LEE'S SUMMIT HS - EAST PARKING LOT
 400 SE BLUE PARKWAY
 LEE'S SUMMIT, MISSOURI 64063
CONSTRUCTION DOCUMENTS PHASE I
STORM SEWER PLAN AND PROFILE

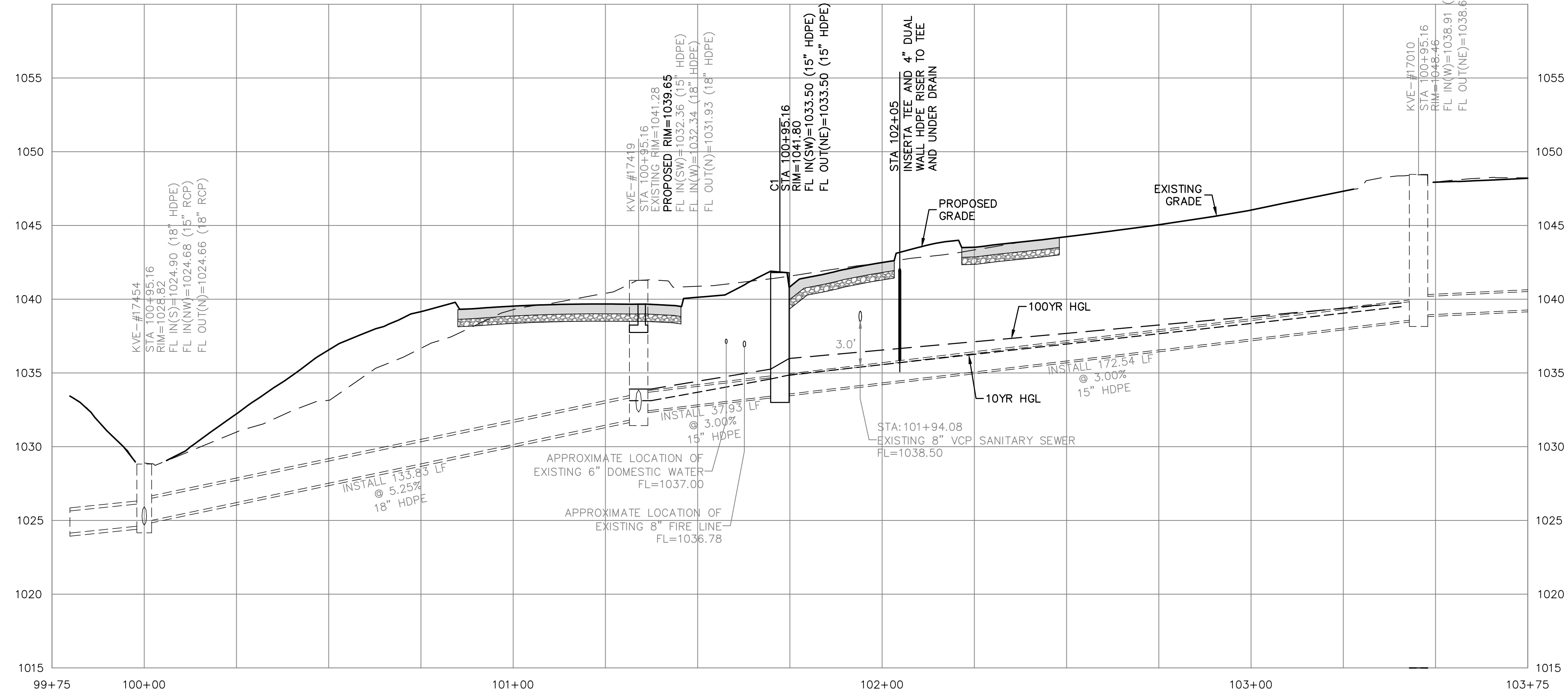
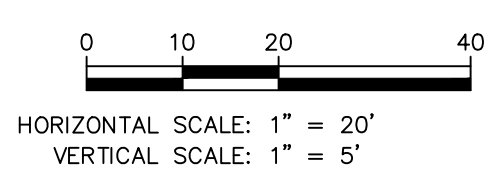
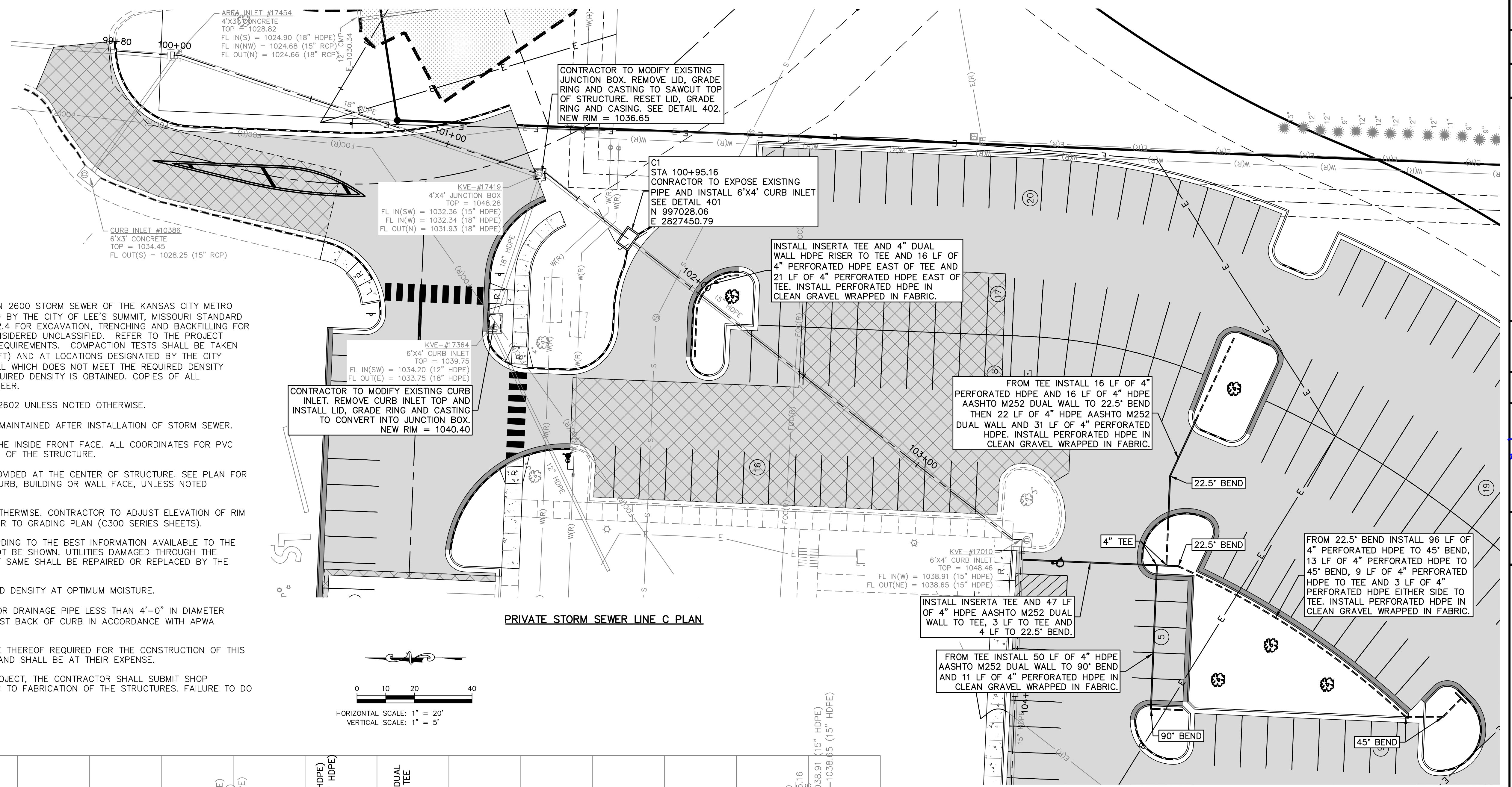
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DESIGNER	DDW
DRAWN BY	NJN
CFN	
SHEET	1880DPP
C610	3



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PROJ. NO.	C23-1880
DESIGNER	DDW
DRAWN BY	NJN
CFN	
SHEET	1880DPP
C620	3

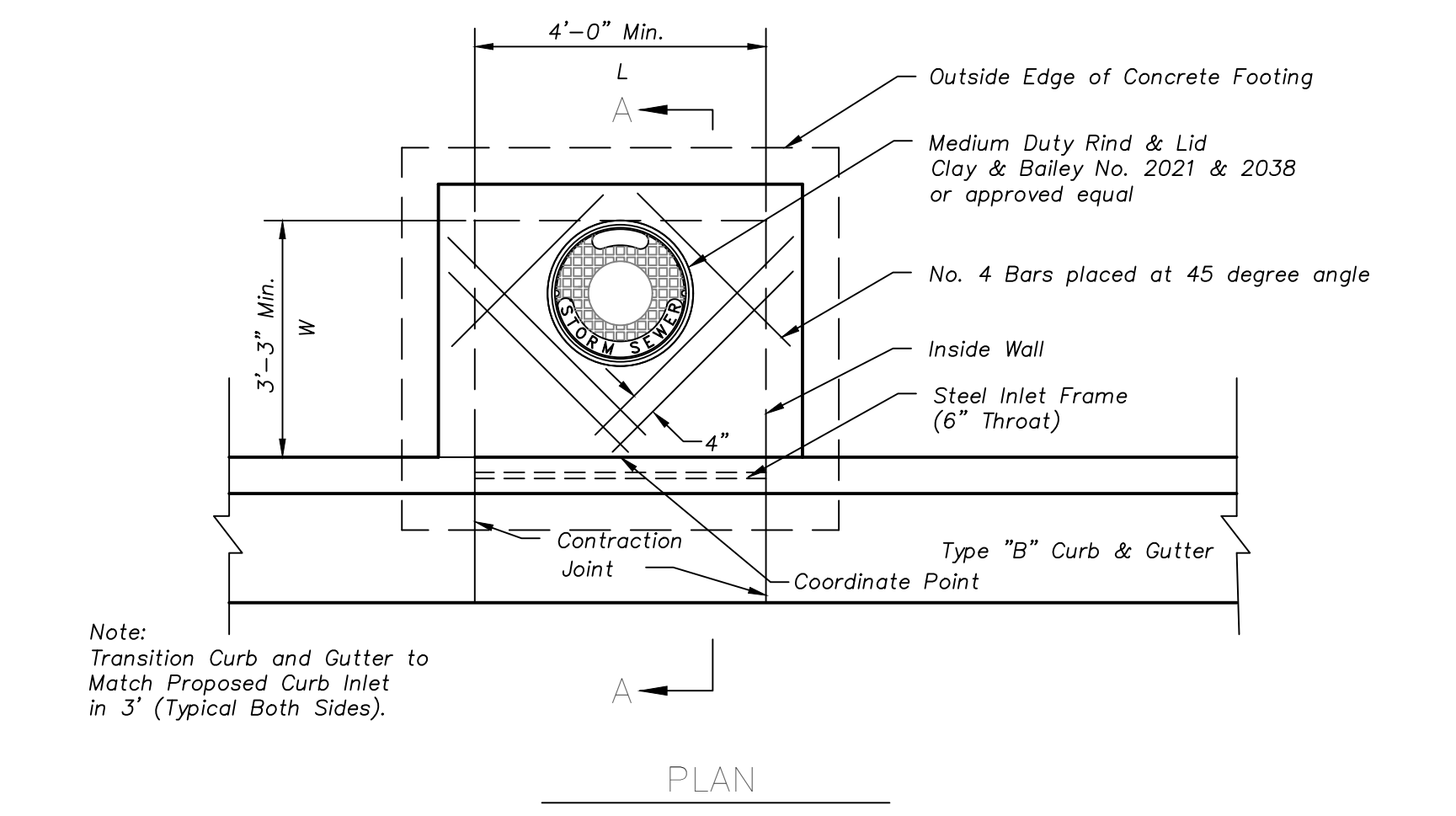
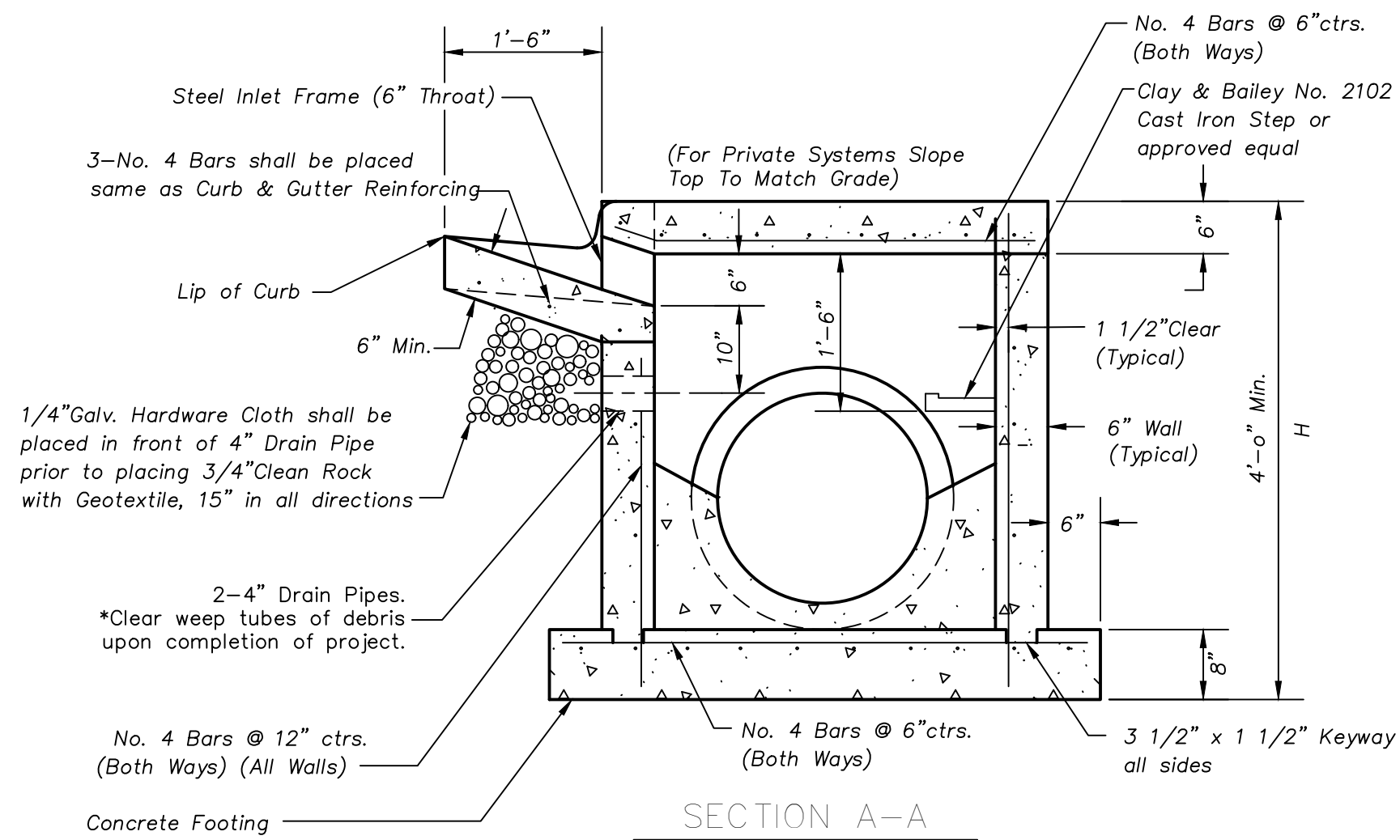
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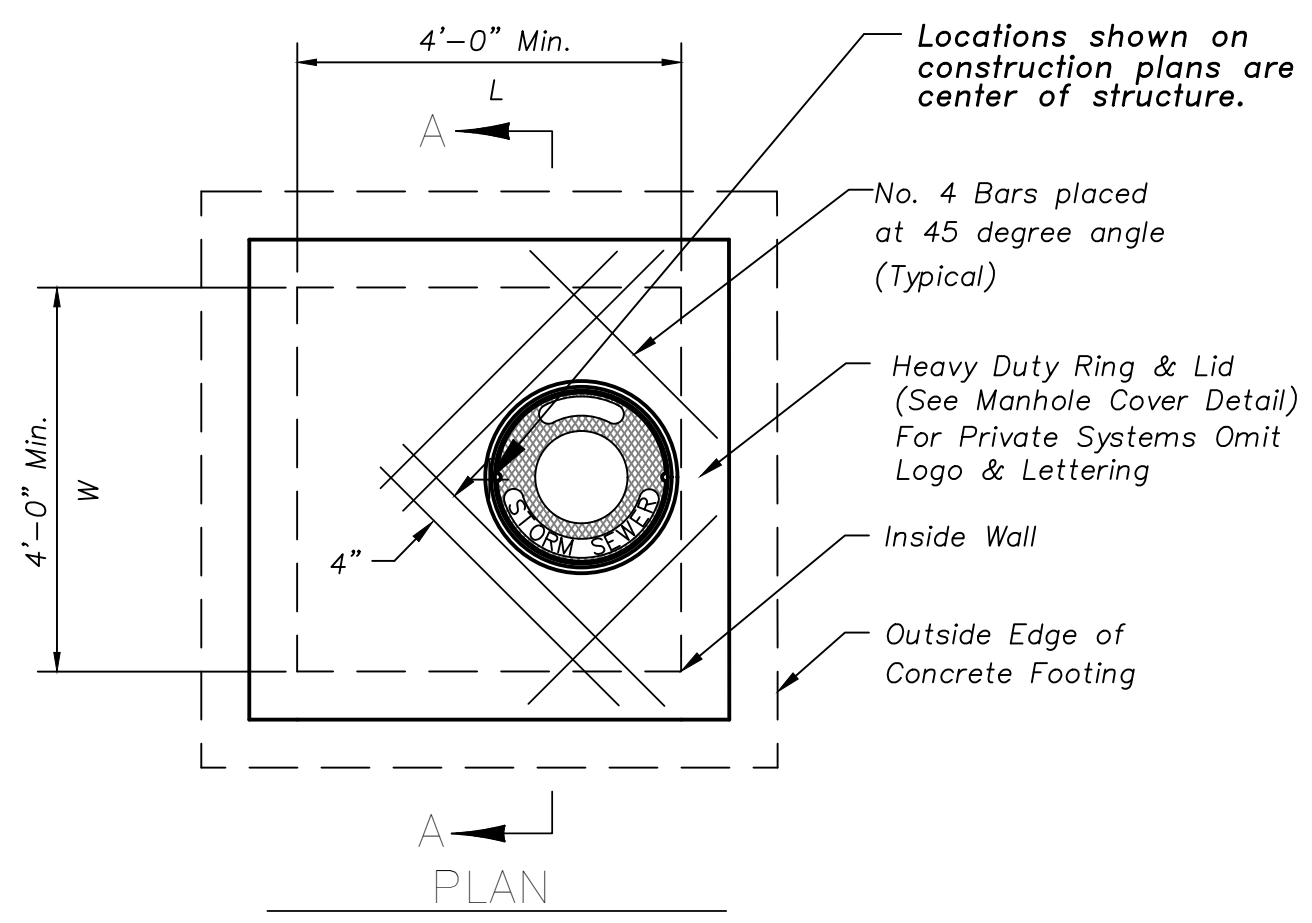
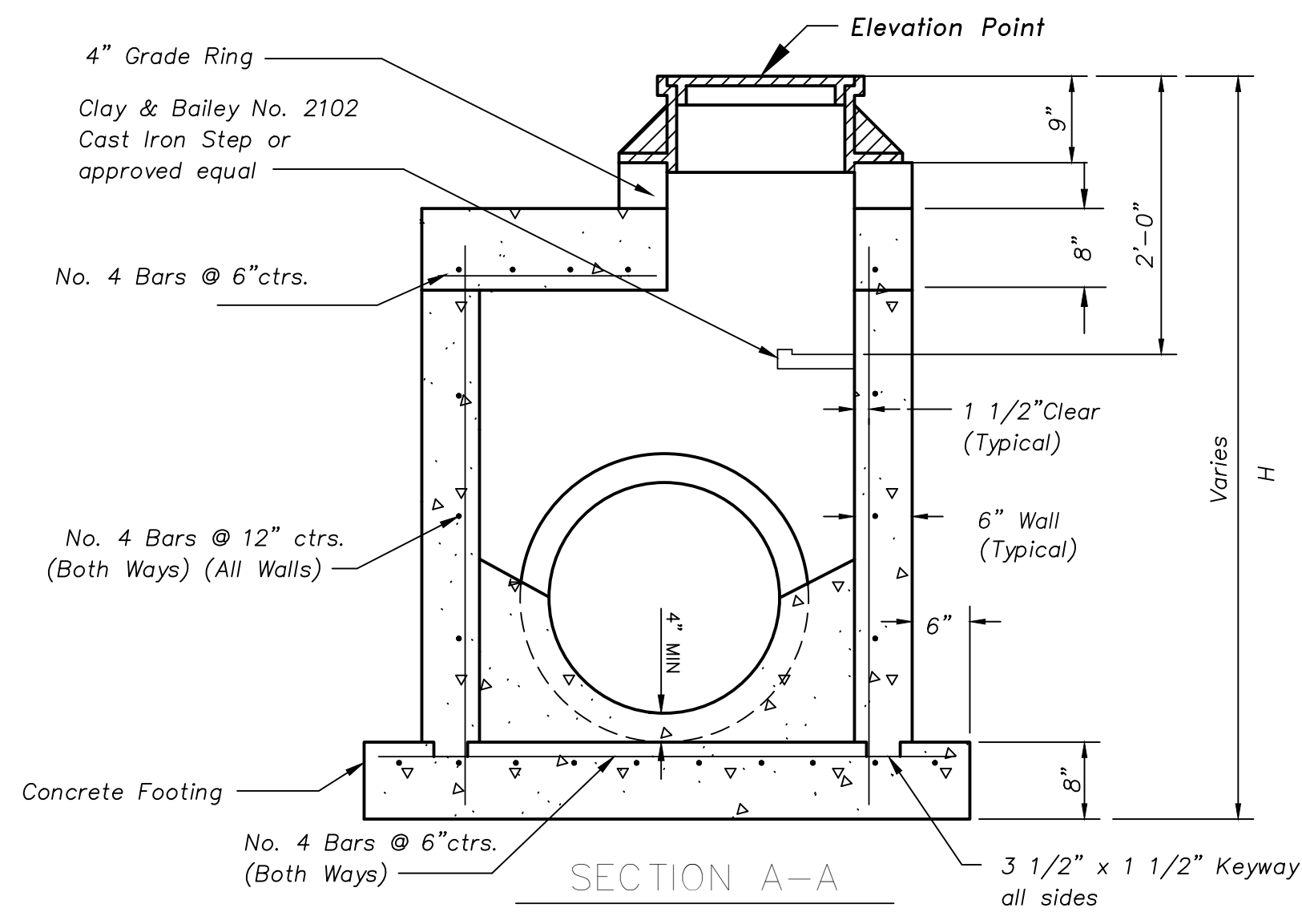
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STORM SEWER PLAN AND PROFILE



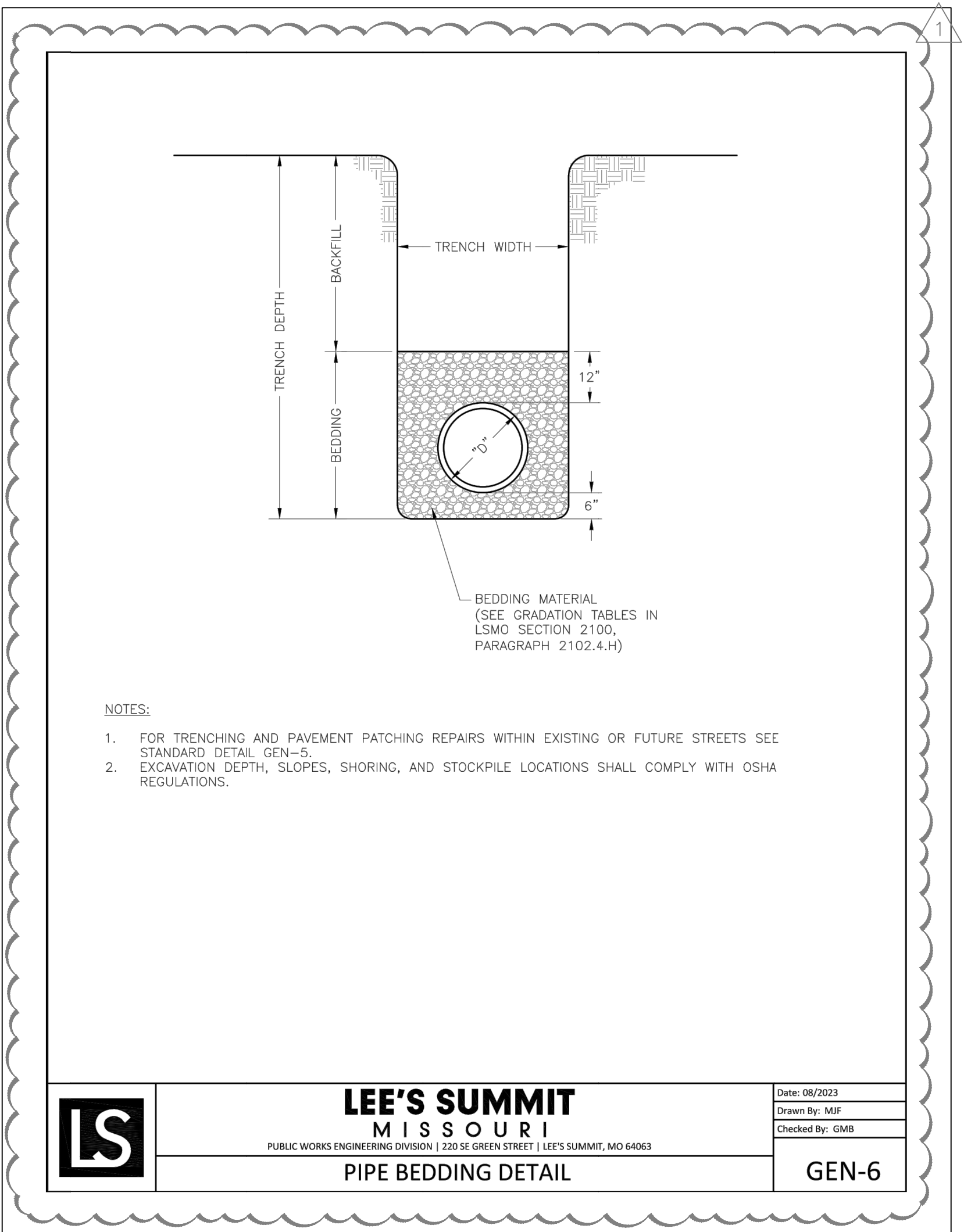
NON-SETBACK CURB INLET
 USE STEEL INLET FRAME WITH 6" THROAT
 PARKING LOTS ONLY



JUNCTION BOX

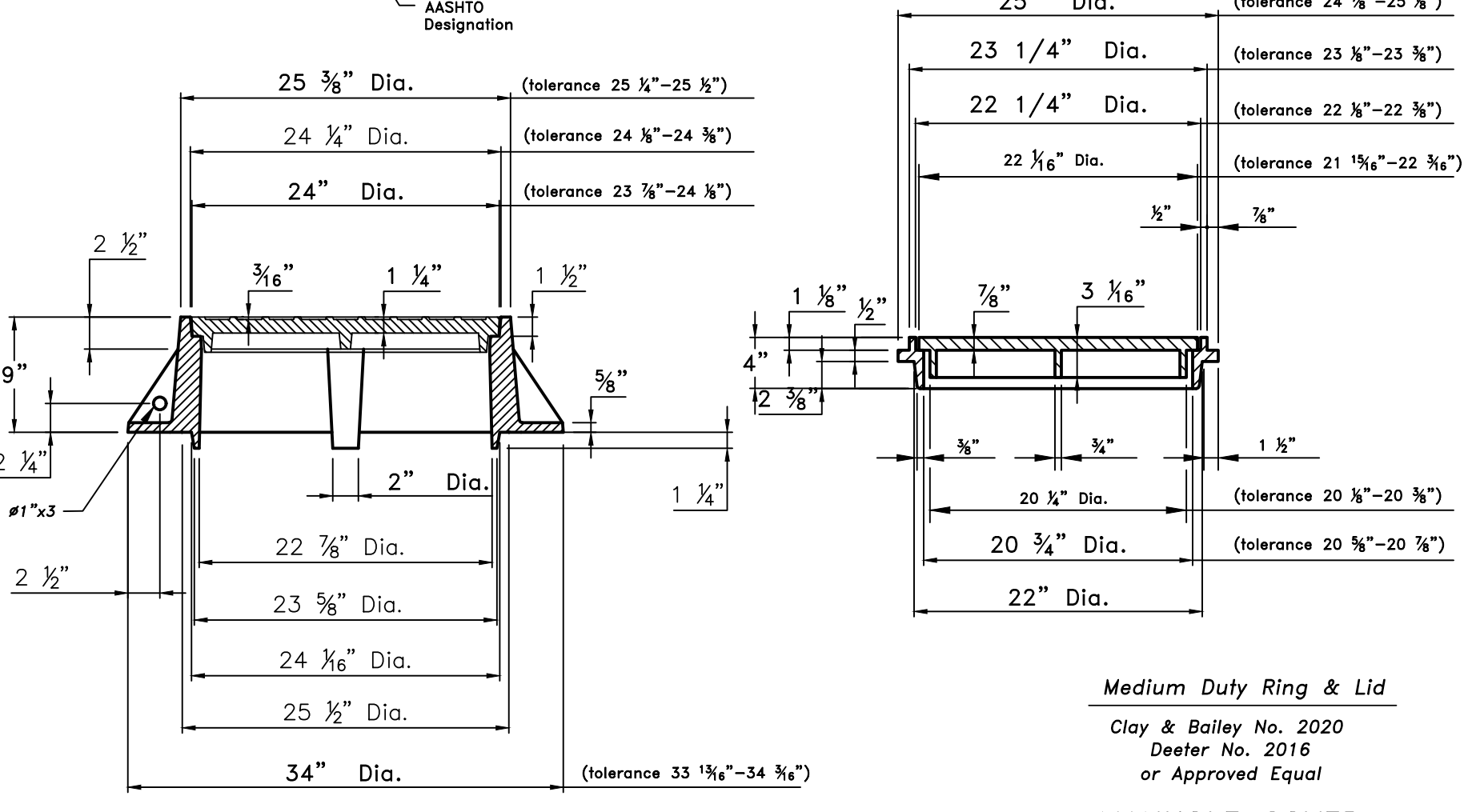
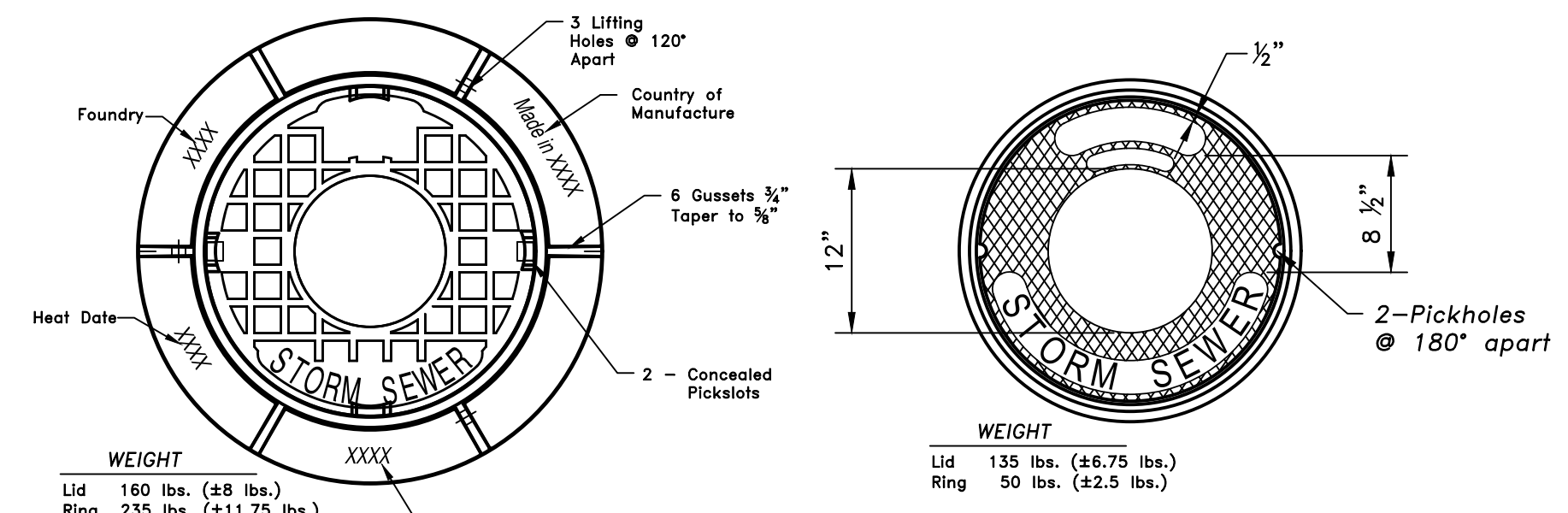
JUNCTION BOX YARD INLETS AND CURB INLET NOTES

- GENERAL**
- ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE. IF PRE-CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER.
 - PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
 - DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
 - THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THAN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.
- CONCRETE**
- CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
 - CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCIB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
 - INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
 - BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
 - 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H"+"L" NOR "H"+"W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
 - ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
- REINFORCING STEEL**
- REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
 - ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
 - ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 - ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
 - ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- CONSTRUCTION**
- THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
 - PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
 - MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 2201 E GREEN STREET | LEE'S SUMMIT, MO 64663

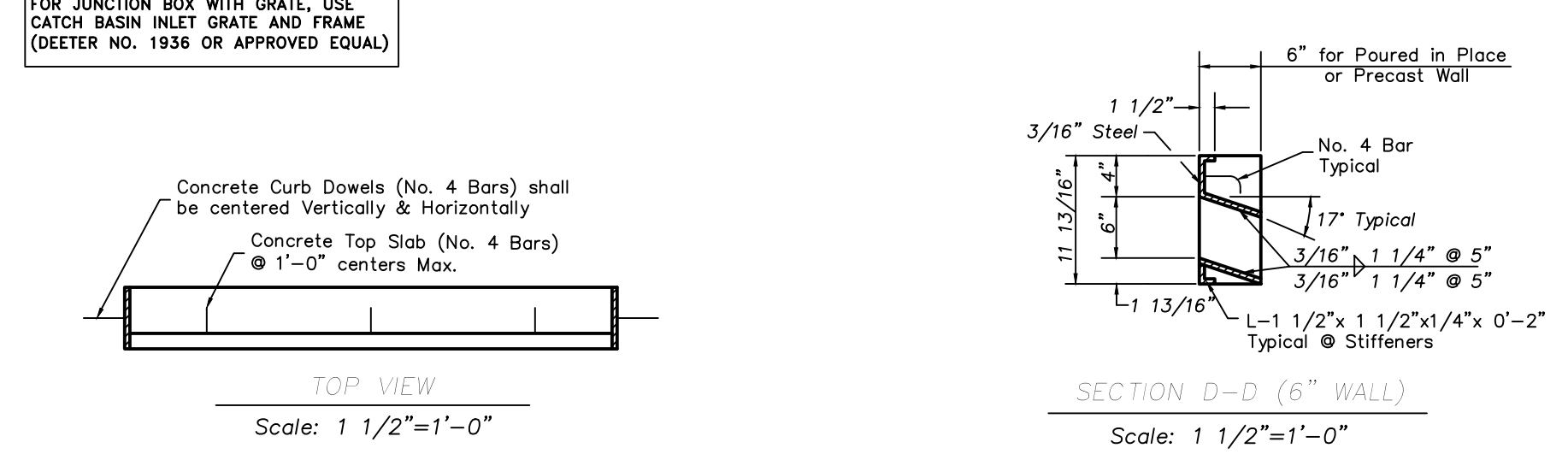
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GEN-6



MANHOLE COVER
 (Public Systems Only)

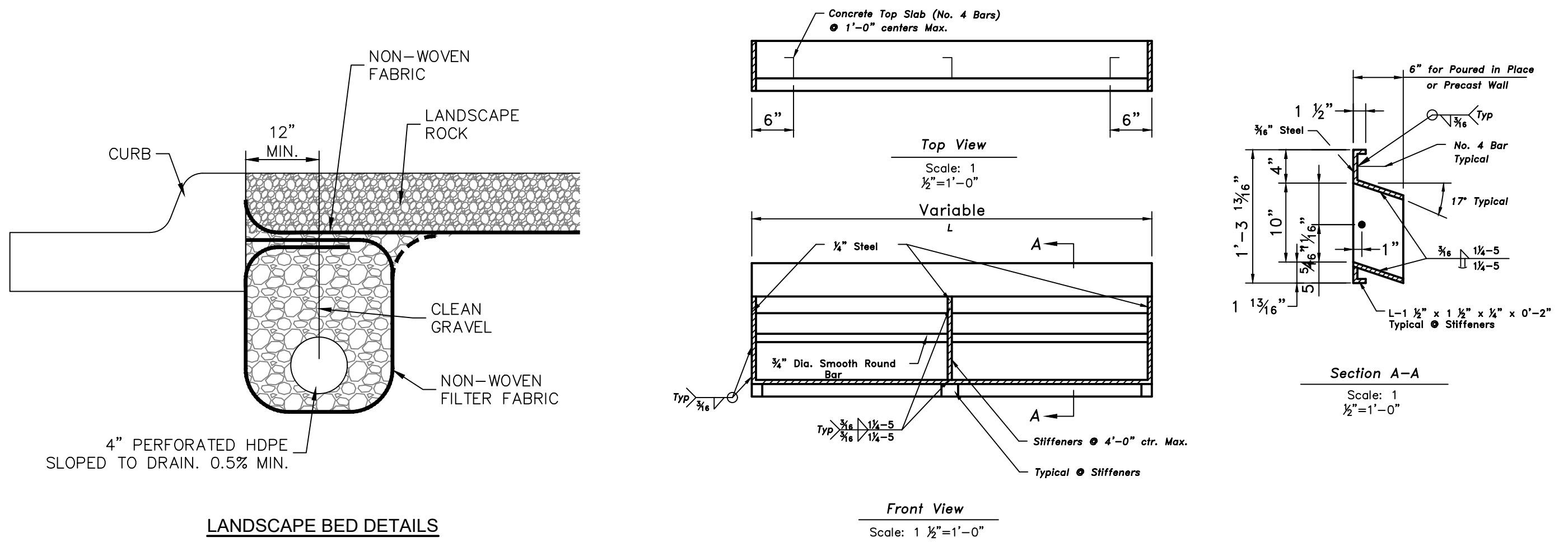
Medium Duty Ring & Lid
 Clay & Bailey No. 2020
 Dealer No. 2016
 or Approved Equal

Scale: 1 1/2" = 1'-0"
 (Feb. 2005)



- NOTES:**
- All Welds shall be performed in accordance with appropriate AWS Specifications & Procedures.
 - All Welds on Exposed Surfaces shall be dressed so as to provide a pleasing finished appearance.
 - The Entire Frame shall be Hot Dip Zinc in Accordance ASTM A-123

STEEL INLET FRAME (6" AND 10" THROAT)
 USE 6" WITH NON-SETBACK CURB INLET/AREA INLET
 USE 10" WITH SETBACK CURB INLET



DESIGNER	DDW	DRAWN BY	NJN
CFN			
SHEET	1880DET	REV	
C690		3	

PROJ. NO. **C23-1880**

LEE'S SUMMIT HS - EAST PARKING LOT
400 SE BLUE PARKWAY
LEE'S SUMMIT, MISSOURI 64063

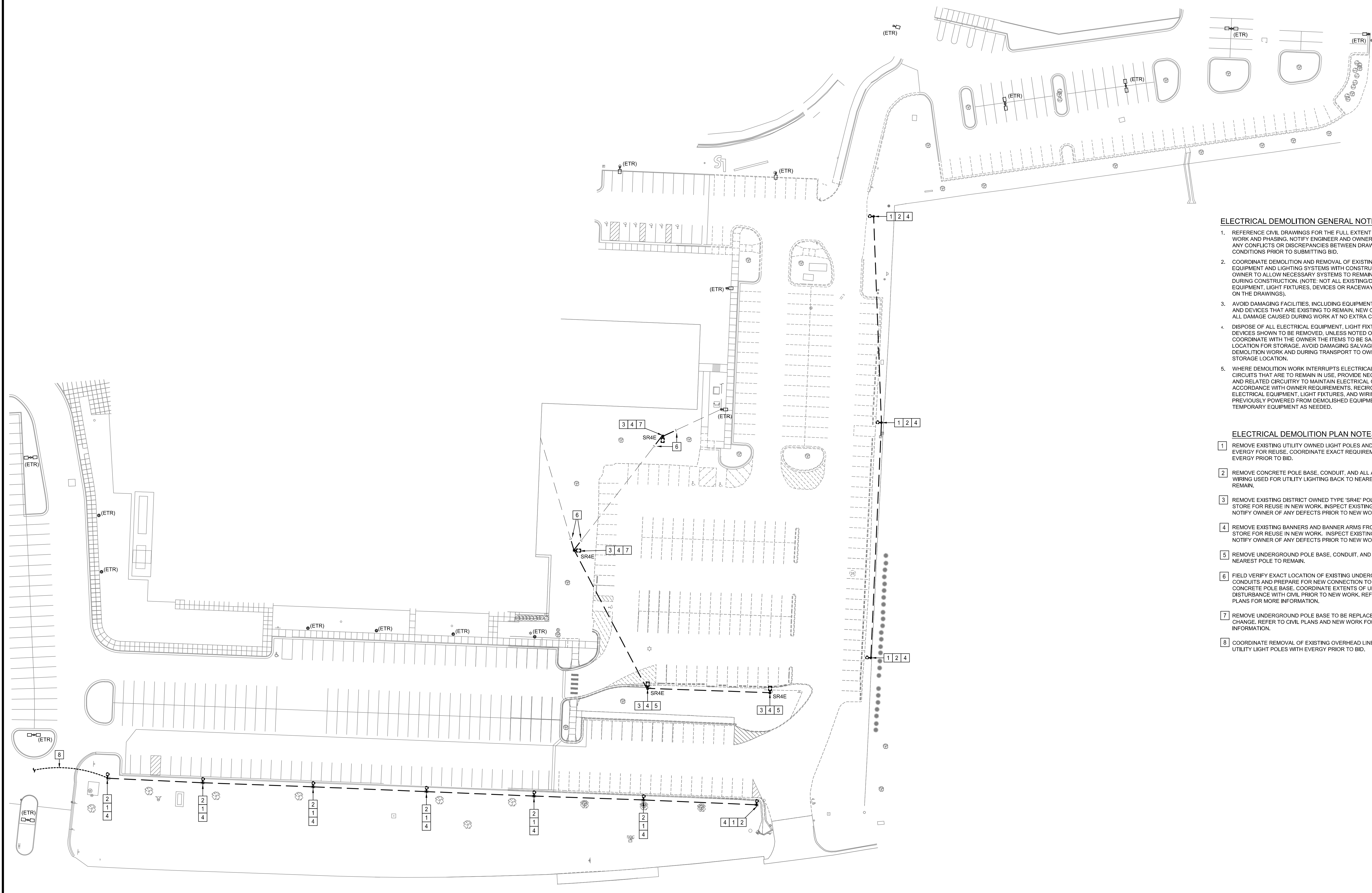
CONSTRUCTION DOCUMENTS PHASE I
STORM SEWER DETAILS

DAVID D. WOOD
 ENGINEER
 MO # 2011037427

14700 WEST 114TH TERRACE
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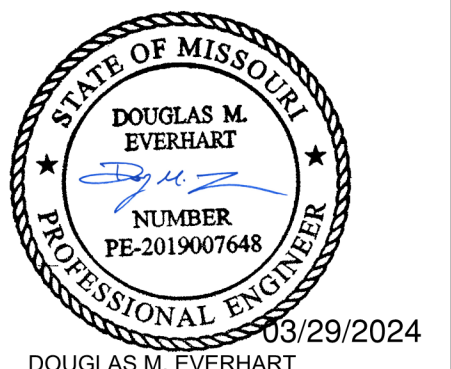
**LEE'S SUMMIT SCHOOL DISTRICT
 LSHS SE PARKING LOT LIGHTING
 400 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063**



- ELECTRICAL DEMOLITION GENERAL NOTES:**
1. REFERENCE CIVIL DRAWINGS FOR THE FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ENGINEER AND OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOB SITE CONDITIONS PRIOR TO SUBMITTING BID.
 2. COORDINATE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND LIGHTING SYSTEMS WITH CONSTRUCTION PHASING AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. (NOTE: NOT ALL EXISTING/DEMOLISHED EQUIPMENT, LIGHT FIXTURES, DEVICES OR RACEWAYS WILL BE SHOWN ON THE DRAWINGS).
 3. AVOID DAMAGING FACILITIES, INCLUDING EQUIPMENT, LIGHT FIXTURES AND DEVICES THAT ARE EXISTING TO REMAIN, NEW OR REUSED, REPAIR ALL DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
 4. DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED, UNLESS NOTED OTHERWISE. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
 5. WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE, PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.

- ELECTRICAL DEMOLITION PLAN NOTES:**
- 1 REMOVE EXISTING UTILITY OWNED LIGHT POLES AND TURN OVER TO EVERGY FOR REUSE. COORDINATE EXACT REQUIREMENTS WITH EVERGY PRIOR TO BID.
 - 2 REMOVE CONCRETE POLE BASE, CONDUIT, AND ALL ASSOCIATED WIRING USED FOR UTILITY LIGHTING BACK TO NEAREST POLE TO REMAIN.
 - 3 REMOVE EXISTING DISTRICT OWNED TYPE 'SR4E' POLE LIGHT AND STORE FOR REUSE IN NEW WORK. INSPECT EXISTING EQUIPMENT AND NOTIFY OWNER OF ANY DEFECTS PRIOR TO NEW WORK.
 - 4 REMOVE EXISTING BANNERS AND BANNER ARMS FROM POLES AND STORE FOR REUSE IN NEW WORK. INSPECT EXISTING EQUIPMENT AND NOTIFY OWNER OF ANY DEFECTS PRIOR TO NEW WORK.
 - 5 REMOVE UNDERGROUND POLE BASE, CONDUIT, AND WIRING BACK TO NEAREST POLE TO REMAIN.
 - 6 FIELD VERIFY EXACT LOCATION OF EXISTING UNDERGROUND CONDUITS AND PREPARE FOR NEW CONNECTION TO REPLACEMENT CONCRETE POLE BASE. COORDINATE EXTENTS OF UNDERGROUND DISTURBANCE WITH CIVIL PRIOR TO NEW WORK. REFER TO NEW WORK PLANS FOR MORE INFORMATION.
 - 7 REMOVE UNDERGROUND POLE BASE TO BE REPLACED DUE TO GRADE CHANGE. REFER TO CIVIL PLANS AND NEW WORK FOR MORE INFORMATION.
 - 8 COORDINATE REMOVAL OF EXISTING OVERHEAD LINE POWERING UTILITY LIGHT POLES WITH EVERGY PRIOR TO BID.

1 ELECTRICAL SITE DEMOLITION PLAN - PHASE 1
 SCALE: 1" = 40'



DOUGLAS M. EVERHART
 LICENSE # PE-2019007648
 PROFESSIONAL SEAL

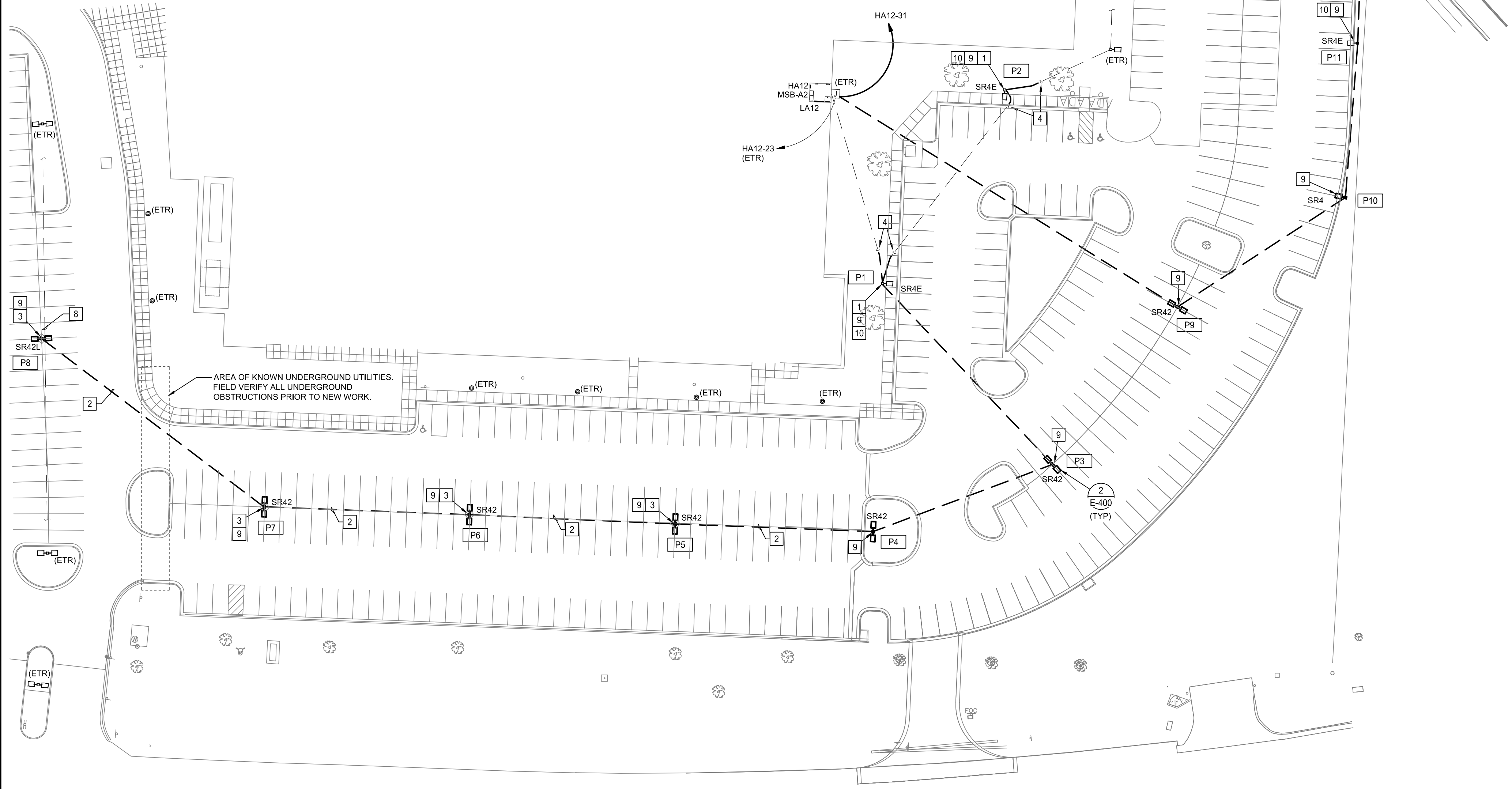
REVISIONS

NO.	DESCRIPTION

JOB NO: 2450001728
 DATE: 03-08-24
 CHECKED BY: OD
 DRAWN BY: ASM

**ELECTRICAL SITE
 DEMOLITION PLAN
 PHASE 1
 ED-101**

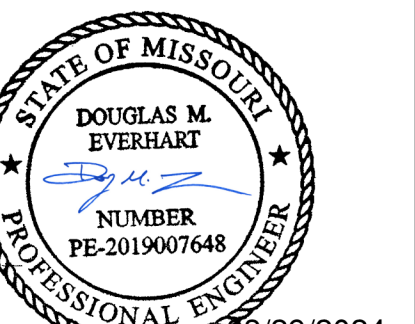
VOLTAGE DROP CALCULATIONS - SITE LIGHTING																
PNL-CKT	Identification		Source Pole	Construction Phase	Conduit Type	Conductor Material	No. of Sets	Wire Size (Phase)	Voltage	Phase	Circuit Length (Feet)	Power Factor (PF)	Fixture Load (Amps)	Circuit Load (Amps)	Cumulative Voltage Drop (Volts)	Cumulative Voltage Drop (%)
	Pole	Fixture														
HA12-23	P1	SR4	-	1	P	CU	1	8	277	1	115	0.95	0.5700	10.6362	1.852	0.669%
HA12-23	P2	SR4	P1	1	P	CU	1	8	277	1	140	0.95	0.5700	3.2262	2.536	0.916%
HA12-23	ETR1	ETR	P2	ETR	P	CU	1	8	277	1	65	0.95	0.5700	2.6562	2.798	1.010%
HA12-23	ETR2	ETR	ETR1	ETR	P	CU	1	8	277	1	115	0.95	0.5700	2.0862	3.161	1.141%
HA12-23	ETR3	ETR	ETR2	ETR	P	CU	1	8	277	1	120	0.95	0.5700	1.5162	3.437	1.241%
HA12-23	ETR4	ETR	ETR3	ETR	P	CU	1	8	277	1	150	0.95	0.5700	0.9462	3.652	1.318%
HA12-23	ETR5	ETR	ETR4	ETR	P	CU	1	8	277	1	135	0.95	0.1881	0.3762	3.729	1.346%
HA12-23	ETR6	ETR	ETR5	ETR	P	CU	1	8	277	1	25	0.95	0.1881	0.1881	3.736	1.349%
HA12-23	P3	SR42	P1	1	P	CU	1	8	277	1	160	0.95	1.1400	6.8400	3.510	1.267%
HA12-23	P4	SR42	P3	1	P	CU	1	8	277	1	120	0.95	1.1400	5.7000	4.546	1.641%
HA12-23	P5	SR42	P4	1	P	CU	1	8	277	1	125	0.95	1.1400	1.1400	4.762	1.719%
HA12-23	P6	SR42	P4	1	P	CU	1	8	277	1	130	0.95	1.1400	3.4200	5.219	1.884%
HA12-23	P7	SR42	P6	1	P	CU	1	8	277	1	130	0.95	1.1400	2.2800	5.668	2.046%
HA12-23	P8	SR42L	P7	1	P	CU	1	8	277	1	170	0.95	1.1400	1.1400	5.962	2.152%
HA12-31	P9	SR42	-	1	P	CU	1	8	277	1	260	0.95	0.5700	5.1300	2.020	0.729%
HA12-31	P10	SR4H	P9	1	P	CU	1	8	277	1	125	0.95	0.5700	4.5600	2.883	1.041%
HA12-31	P11	SR4	P10	1	P	CU	1	8	277	1	100	0.95	0.5700	3.9900	3.488	1.259%
HA12-31	P12	SR4	P11	1	P	CU	1	8	277	1	215	0.95	0.5700	3.4200	4.601	1.661%
HA12-31	P13	SR4	P12	1	P	CU	1	8	277	1	120	0.95	0.5700	0.5700	4.705	1.698%
HA12-31	P14	SS4	P12	2	P	CU	1	8	277	1	130	0.95	0.5700	2.2800	5.050	1.823%
HA12-31	P15	SS4	P14	2	P	CU	1	8	277	1	120	0.95	0.5700	1.7100	5.361	1.935%
HA12-31	P16	SS4	P15	2	P	CU	1	8	277	1	115	0.95	0.5700	1.1400	5.559	2.007%
HA12-31	P17	SS4H	P16	2	P	CU	1	8	277	1	75	0.95	0.5700	0.5700	5.824	2.030%



1 ELECTRICAL SITE PLAN - PHASE 1
SCALE: 1" = 40'

- SITE ELECTRICAL GENERAL NOTES:**
- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
 - COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
 - SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
 - CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS, PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
 - PROVIDE SPICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE; (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED 'ELECTRICAL'. NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12", SHALL BE AN OPEN BOTTOM NR1L LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.

- PHASE 1 ELECTRICAL PLAN NOTES:**
- PROVIDE REPLACEMENT CONCRETE POLE BASE TO ACCOMMODATE GRADE CHANGE. REFER TO CIVIL PLANS FOR MORE INFORMATION. PROVIDE NEW CONDUCTORS AS NEEDED TO INCREASE CONNECTION LENGTH AND REINSTALL EXISTING LIGHT POLE ON UPDATED BASE.
 - PROVIDE DIRECTIONAL BORE BELOW RECENTLY UPDATED PARKING SURFACE FOR NEW LIGHT POLE CONNECTION INDICATED. FIELD VERIFY EXISTING UNDERGROUND OBSTRUCTIONS PRIOR TO ANY NEW WORK AND COORDINATE EXACT REQUIREMENTS WITH OWNER AND CIVIL.
 - PROVIDE DIAMOND SHAPE CUTOUT IN PARKING SURFACE FOR INSTALLATION OF NEW CONCRETE POLE BASE. PROTECT ADJACENT SURFACE FROM INADVERTENT DAMAGE DURING CONSTRUCTION. COORDINATE EXACT REQUIREMENTS WITH CIVIL.
 - EXTEND EXISTING UNDERGROUND CONDUIT FOR NEW CONNECTION TO UPDATED BASE. COORDINATE EXTENTS OF UNDERGROUND DISTURBANCE WITH CIVIL PRIOR TO NEW WORK.
 - PROVIDE UNDERGROUND CONDUIT STUBBED FROM POLE BASE FOR FUTURE CONNECTION TO NEW LIGHT POLE IN PHASE 2. REFER TO SHEET E-102 FOR MORE INFORMATION.
 - PROVIDE UNDERGROUND CONDUIT AS NEEDED FOR CONNECTION OF NEW CONCRETE LIGHT POLE BASE INSTALLED UNDER SEPARATE CONTRACT. COORDINATE EXACT REQUIREMENTS WITH OWNER AND GENERAL CONTRACTOR FOR CITIES BLUE PARKWAY RELOCATION PROJECT PRIOR TO BID.
 - PROVIDE NEW LIGHT POLE ON TO CONCRETE POLE BASE, FURNISHED UNDER SEPARATE CONTRACT. PROVIDE ALL CONNECTIONS AND CONTROL PROGRAMMING REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION. COORDINATE PROPOSED SCHEDULE AND OTHER REQUIREMENTS WITH OWNER AND GENERAL CONTRACTOR FOR CITIES BLUE PARKWAY RELOCATION PROJECT PRIOR TO BID.
 - FIELD VERIFY EXACT LOCATION OF EXISTING UNDERGROUND LINE FOR PARKING LOT LIGHTING AND PROTECT FROM DAMAGE UNDER NEW WORK.
 - REINSTALL BANNERS AND BANNER ARMS REMOVED FROM PREVIOUSLY REMOVED LIGHT POLES TO MATCH EXISTING LIGHT POLE BANNER HEIGHT.
 - REINSTALL EXISTING TYPE 'SR4E' POLE LIGHT AS INDICATED AND RECONNECT TO EXISTING LIGHTING CONTROL SYSTEM. REFER TO DEMO PLAN FOR MORE INFORMATION.



DOUGLAS M. EVERHART
LICENSE # PE-2019007648
PROFESSIONAL SEAL

REVISIONS	

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