

*1001 SW Blue Parkway
Lee's Summit, Jackson County, Missouri*

[illegible]The logo for Missouri 811, featuring the word "MISSOURI" in a stylized font with a green and yellow color scheme, and the number "811" in a large, bold, black font with a registered trademark symbol. Below the number is a stylized shovel icon.

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED FROM THE GOVERNING AGENCIES AND COORDINATING ALL GOVERNING AGENCY INSPECTIONS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED. REFERENCE SITE WORK SPECIFICATIONS.
4. THE CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
5. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGE TO ADJACENT PROPERTIES AND NEW CONSTRUCTION IN PLACE DURING THE CONSTRUCTION PHASES OF THIS PROJECT. ANY DISTURBED IMPROVEMENTS SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.
6. ANY QUANTITIES PROVIDED ON THESE PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES REQUIRED FOR CONSTRUCTION.
7. THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THERE IS NO GUARANTEE THAT ALL FEATURES (ABOVE OR BELOW GROUND) ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FEATURES PRIOR TO BIDDING THE PROJECT.
8. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION BY CONTACTING THE LOCAL UTILITY COMPANIES AND/OR UTILIZING THE LOCAL ONE-CALL SYSTEM. ANY DAMAGE DONE TO EXISTING UTILITIES (THAT ARE TO REMAIN IN PLACE) DURING CONSTRUCTION OPERATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNERS CONTRACT DOCUMENTS AND SPECIFICATIONS. ALL WORK SHALL MEET OR EXCEED THE RELEVANT UTILITY COMPANIES AND REGULATORY AGENCIES, CONTRACT DOCUMENTS AND SPECIFICATIONS. ALL WORK WITHIN PUBLIC AND STATE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
10. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER TRAFFIC CONTROL IS IN PLACE FOR EACH PHASE OF CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROPERLY MAINTAINING TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL PLANS TO THE CITY AND DEPARTMENT OF TRANSPORTATION AS REQUIRED.

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/ DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

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 THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR. THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

THIS PROPERTY LIES IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR THE JACKSON COUNTY, MISSOURI AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER 29095C0417G EFFECTIVE DATE JANUARY 20, 2017.

BM-60 *ELEV=996.63*
TBM 60 CHSL SQUARE, N: 999912.698, E: 2619227.744
SET CHISELED SQUARE ON THE FRONT/CENTER FACE OF A CONCRETE STORM BOX,
+/- 210' WEST OF THE CENTERLINE OF BLUE PARKWAY

BM-61 *ELEV=1009.71*
TBM 61 CHSL SQUARE, N: 999524.652, E: 2619418.237
SET CHISELED SQUARE 8.55' SOUTH OF THE NORTH NOSE OF A CONCRETE ISLAND IN
BLUE PARKWAY

PROJECT BENCHMARKS WILL BE DEMOLISHED. THE CONTRACTOR IS RESPONSIBLE FOR SETTING NEW CONSTRUCTION BENCHMARKS PRIOR TO THE START OF DEMOLITION.

Lot 1 and Lot 2, REPLAT OF QUIKTRIP BLUE PARKWAY – LOTS 1 AND 2, a subdivision in the City of Lee's Summit, Jackson County, Missouri, according to the recorded plat thereof. Containing 114,747.592 square feet (2.634 Acres) more or less.

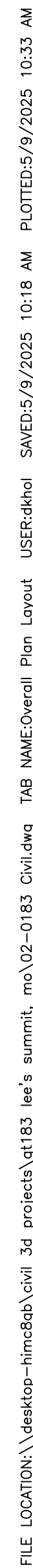
<u>CITY</u> LEE'S SUMMIT 220 SE GREEN ST LEE'S SUMMIT, MO 64063 816-969-1000	<u>CITY MANAGER'S OFFICE</u> 816-969-1010 <u>CITY CLERK</u> 816-969-1007	<u>CHIEF OF POLICE</u> TRAVIS FORBES 816-969-7390 <u>MODOT</u> DAVE McDANIEL TRAFFIC SPECIALIST 600 NE COLBERN ROAD LEE'S SUMMIT, MO 64086 816-585-8703 david.mcdaniel@modot.mo.gov	<u>WATER/SEWER</u> WATER UTILITIES SERVICE CENTER 1200 SE HAMBLIN ROAD LEE'S SUMMIT, MO 64081 816-969-1900 <u>ELECTRIC</u> EVERGY TOM GOMEZ tom.gomez@evergy.com 816-308-9653
<u>MAYOR</u> BILL BAIRD 220 SE GREEN ST 816-969-1010 wbaird@cityofls.net	<u>PUBLIC WORKS</u> 816-969-1800 <u>DEVELOPMENT SERVICES</u> 816-969-1200		

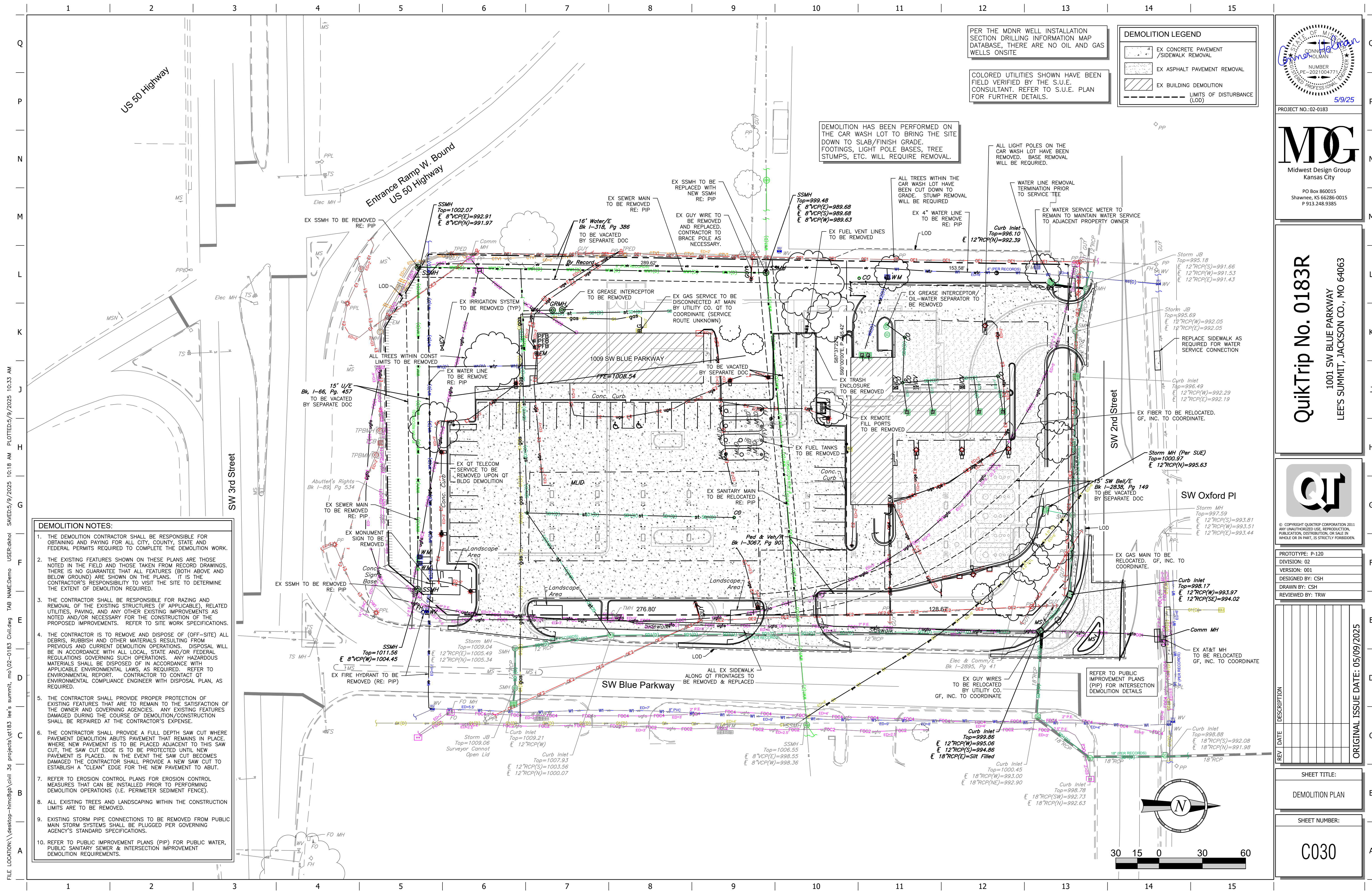
<u>SURVEYOR OF RECORD</u> JOSH DOUGHAN, PLS McCLURE ENGINEERING CO. 11250 CORPORATE AVE ENEXA, KS 66219 TEL: (515) 964-1229 CELL: (515) 505-4106 jdoughan@mccluresults.com	<u>ENGINEER OF RECORD</u> CONNOR HOLMAN, P.E. MIDWEST DESIGN GROUP P.O. BOX 860015 SHAWNEE, KS 66286-0015 TEL: (913) 787-0183 connor@mdg-kc.com	<u>DEVELOPER/OWNER</u> TARA LIMBACH RE PROJECT MANAGER QUIKTRIP CORPORATION 5725 FOXRIDGE DRIVE MUSKOGEE, KS 66802 TEL: (913) 905-2070 CELL: (816) 729-1393 tlimbach@quiktrip.com	<u>QT CIVIL PROJECT MANAGER</u> TRAVIS WUNSCH QUIKTRIP CORPORATION CORPORATE OFFICE 4705 SOUTH 129TH E AVE MUSKOGEE, KS 66808 TEL: (918) 994-3545 twunsch@quiktrip.com
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NO.	TITLE
C001	COVER SHEET
C010	OVERALL SITE PLAN
C030	DEMOLITION PLAN
C100	SITE PLAN
C101	SIGNAGE PLAN
C102	VEHICLE TRACKING (WB-50)
C110	OVERALL GRADING PLAN
C111	GRADING PLAN
C112	BUILDING AND DETAILED GRADING PLAN
C113	CANOPY AND DETAILED GRADING PLAN
C114	SW BLUE PKWY DETAILED GRADING PLAN
C115	SW 2ND ST DETAILED GRADING PLAN
C116	ADA COMPLIANCE REFERENCE PLAN
C120	OVERALL STORM SEWER PLAN
C121	STORM LATERAL A PLAN & PROFILE
C122	STORM LATERAL B & C PLAN & PROFILE
C123	STORM SEWER CALCULATIONS
C124	PRE-DEVELOPED DRAINAGE AREA MAP
C125	POST-DEVELOPED DRAINAGE AREA MAP
C130	ASPHALT PAVING PLAN
C131	CONCRETE PAVING PLAN (ALTERNATE)
C132	BUILDING PAVING PLAN
C140	EROSION CONTROL PLAN PHASE 1
C141	EROSION CONTROL PLAN PHASE 2
C150	OVERALL UTILITY PLAN
C151	SANITARY SERVICE PLAN & PROFILE
C160	PHOTOMETRIC SITE PLAN
C170	S.U.E. PLAN
C500	MISCELLANEOUS SITE DETAILS
C501	EROSION CONTROL DETAILS
C510	ADA DETAILS
C520	PAVING DETAILS
C521	PAVING DETAILS
C522	PAVING DETAILS
C523	PAVING DETAILS
C524	PAVING DETAILS
C530	COMPREHENSIVE TRENCHING DETAILS
C531	COMPREHENSIVE TRENCHING DETAILS
C540	DRAINAGE DETAILS
C550	CITY DRIVEWAY DETAILS (GEN-1)
L100	LANDSCAPE PLAN
L110	IRRIGATION PLAN SHEET 1
L111	IRRIGATION PLAN SHEET 2
L500	LANDSCAPE DETAILS
L510	IRRIGATION DETAILS SHEET 1
L511	IRRIGATION DETAILS SHEET 2

PUBLIC IMPROVEMENT PLANS - MDG
SWPPP - MDG

DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING
STORM 12" & UP			QT SINGLE LIGHT FIXTURE		
STORM <12"	— ST —	— st —	QT DOUBLE LIGHT FIXTURE		
STORM C/UP PAVEMENT DRAIN	— UC —	— uc —	SANITARY SEWER	SS —	ss —
STORM SEWER CLEANOUT			SANITARY SEWER MANHOLE	SSMH	SSMH
CURB INLET			SANITARY SEWER CLEANOUT		
JUNCTION BOX			GAS	— GAS —	— gas —
GRATE INLET			BENCHMARK		
			FENCE	—//—	—//—
			PROPERTY LINE	—//—	—//—
WATER	— WTR —	— wtr —	CONCRETE CURB AND GUTTER		
FIRE HYDRANT					
WATER METER			MOUNTABLE CURB W/ RADIUS PROTECTOR		
WATER VALVE					
OVERHEAD ELECTRICAL	— OHE —	— ohe —	PARKING SPACE INDICATOR		
UNDERGROUND ELECTRICAL	— UGE —	— uge —			
POWER POLE			MULTIPLE PRODUCT AUTO DISPENSER WITH CANOPY COLUMN & BOLLARDS		
PUBLIC STREET LIGHT POLE					
OVERHEAD TELEPHONE	— OHT —	— oht —	LANDSCAPE BED	LS	
UNDERGROUND TELEPHONE	— UGT —	— ugt —	ELECTRICAL TRANSFORMER		
TELEPHONE MANHOLE					
FIBER OPTIC CABLE	— UFOC —	— ufoc —	FUEL SYSTEM TRANSITION SUMP		





- DEMOLITION NOTES:**
1. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL CITY, COUNTY, STATE AND FEDERAL PERMITS REQUIRED TO COMPLETE THE DEMOLITION WORK.
 2. THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THERE IS NO GUARANTEE THAT ALL FEATURES (BOTH ABOVE AND BELOW GROUND) ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES (IF APPLICABLE), RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED AND/OR NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. REFER TO SITE WORK SPECIFICATIONS.
 4. THE CONTRACTOR IS TO REMOVE AND DISPOSE OF (OFF-SITE) ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS. ANY HAZARDOUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE ENVIRONMENTAL LAWS, AS REQUIRED. REFER TO ENVIRONMENTAL REPORT. CONTRACTOR TO CONTACT QT ENVIRONMENTAL COMPLIANCE ENGINEER WITH DISPOSAL PLAN, AS REQUIRED.
 5. THE CONTRACTOR SHALL PROVIDE PROPER PROTECTION OF EXISTING FEATURES THAT ARE TO REMAIN TO THE SATISFACTION OF THE OWNER AND GOVERNING AGENCIES. ANY EXISTING FEATURES DAMAGED DURING THE COURSE OF DEMOLITION/CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 6. THE CONTRACTOR SHALL PROVIDE A FULL DEPTH SAW CUT WHERE PAVEMENT DEMOLITION ADJUTS PAVEMENT THAT REMAINS IN PLACE. WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO THIS SAW CUT, THE SAW CUT EDGE IS TO BE PROTECTED UNTIL NEW PAVEMENT IS PLACED. IN THE EVENT THE SAW CUT BECOMES DAMAGED THE CONTRACTOR SHALL PROVIDE A NEW SAW CUT TO ESTABLISH A "CLEAN" EDGE FOR THE NEW PAVEMENT TO ADJUT.
 7. REFER TO EROSION CONTROL PLANS FOR EROSION CONTROL MEASURES THAT CAN BE INSTALLED PRIOR TO PERFORMING DEMOLITION OPERATIONS (I.E. PERIMETER SEDIMENT FENCE).
 8. ALL EXISTING TREES AND LANDSCAPING WITHIN THE CONSTRUCTION LIMITS ARE TO BE REMOVED.
 9. EXISTING STORM PIPE CONNECTIONS TO BE REMOVED FROM PUBLIC MAIN STORM SYSTEMS SHALL BE PLUGGED PER GOVERNING AGENCY'S STANDARD SPECIFICATIONS.
 10. REFER TO PUBLIC IMPROVEMENT PLANS (PIP) FOR PUBLIC WATER, PUBLIC SANITARY SEWER & INTERSECTION IMPROVEMENT DEMOLITION REQUIREMENTS.

PER THE MDNR WELL INSTALLATION SECTION DRILLING INFORMATION MAP DATABASE, THERE ARE NO OIL AND GAS WELLS ONSITE.

COLORLED UTILITIES SHOWN HAVE BEEN FIELD VERIFIED BY THE S.U.E. CONSULTANT. REFER TO S.U.E. PLAN FOR FURTHER DETAILS.

DEMOLITION LEGEND	
	EX CONCRETE PAVEMENT /SIDEWALK REMOVAL
	EX ASPHALT PAVEMENT REMOVAL
	EX BUILDING DEMOLITION
	LIMITS OF DISTURBANCE (LOD)

DEMOLITION HAS BEEN PERFORMED ON THE CAR WASH LOT TO BRING THE SITE DOWN TO SLAB/FINISH GRADE. FOOTINGS, LIGHT POLE BASES, TREE STUMPS, ETC. WILL REQUIRE REMOVAL.

ALL LIGHT POLES ON THE CAR WASH LOT HAVE BEEN REMOVED. BASE REMOVAL WILL BE REQUIRED.

ALL TREES WITHIN THE CAR WASH LOT HAVE BEEN CUT DOWN TO GRADE. STUMP REMOVAL WILL BE REQUIRED.

WATER LINE REMOVAL TERMINATION PRIOR TO SERVICE TEE

EX WATER SERVICE METER TO REMAIN TO MAINTAIN WATER SERVICE TO ADJACENT PROPERTY OWNER

REPLACE SIDEWALK AS REQUIRED FOR WATER SERVICE CONNECTION

EX FIBER TO BE RELOCATED, GF, INC. TO COORDINATE.

Storm MH (Per SUE)
Top=1000.97
E 12"RCP(N)=995.63

Storm MH
Top=997.59
E 12"RCP(S)=993.81
E 12"RCP(W)=993.51
E 12"RCP(E)=993.44

Curb Inlet
Top=998.17
E 12"RCP(W)=993.97
E 12"RCP(SE)=994.02

EX AT&T MH TO BE RELOCATED, GF, INC. TO COORDINATE

REFER TO PUBLIC IMPROVEMENT PLANS (PIP) FOR INTERSECTION DEMOLITION DETAILS

Curb Inlet
Top=998.88
E 18"RCP(S)=992.08
E 18"RCP(W)=991.98

Curb Inlet
Top=998.78
E 18"RCP(SW)=992.73
E 18"RCP(N)=992.63

Curb Inlet
Top=998.88
E 18"RCP(S)=992.08
E 18"RCP(W)=991.98

Curb Inlet
Top=998.88
E 18"RCP(S)=992.08
E 18"RCP(W)=991.98

5/9/25

PROJECT NO.:02-0183

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.246.9385

QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063

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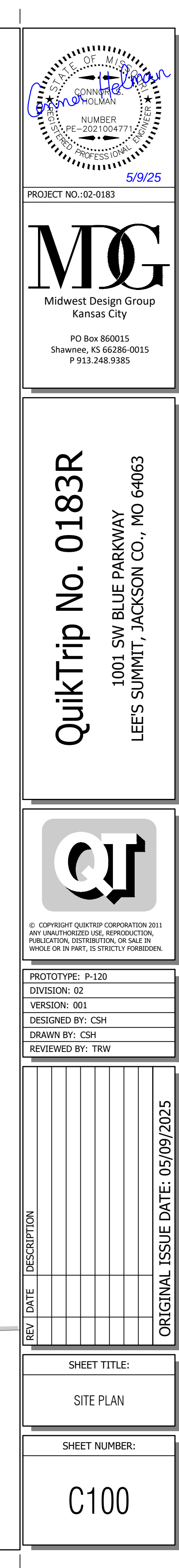
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DIVISION: 02
VERSION: 001
DESIGNED BY: CSH
DRAWN BY: CSH
REVIEWED BY: TRW

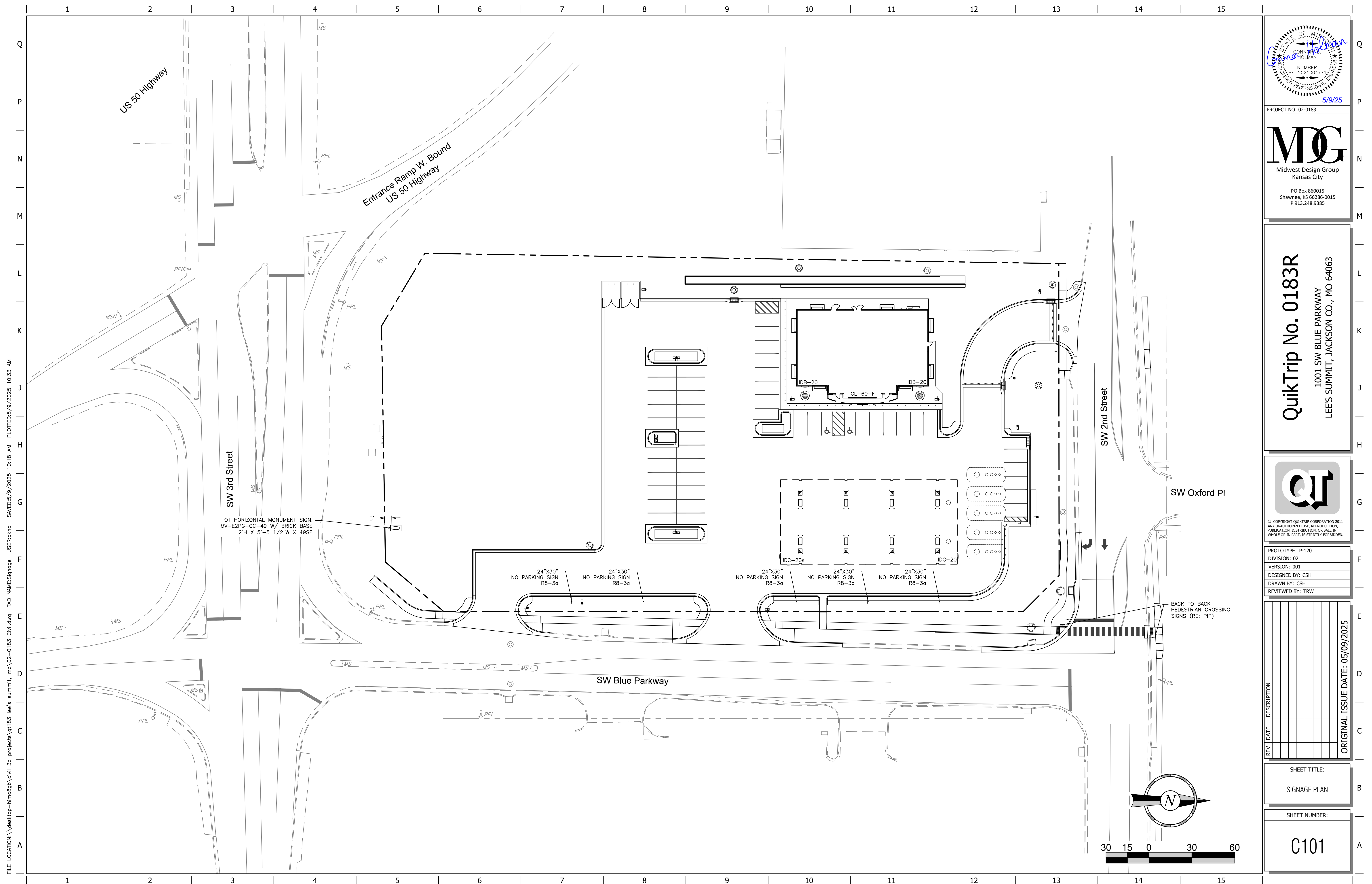
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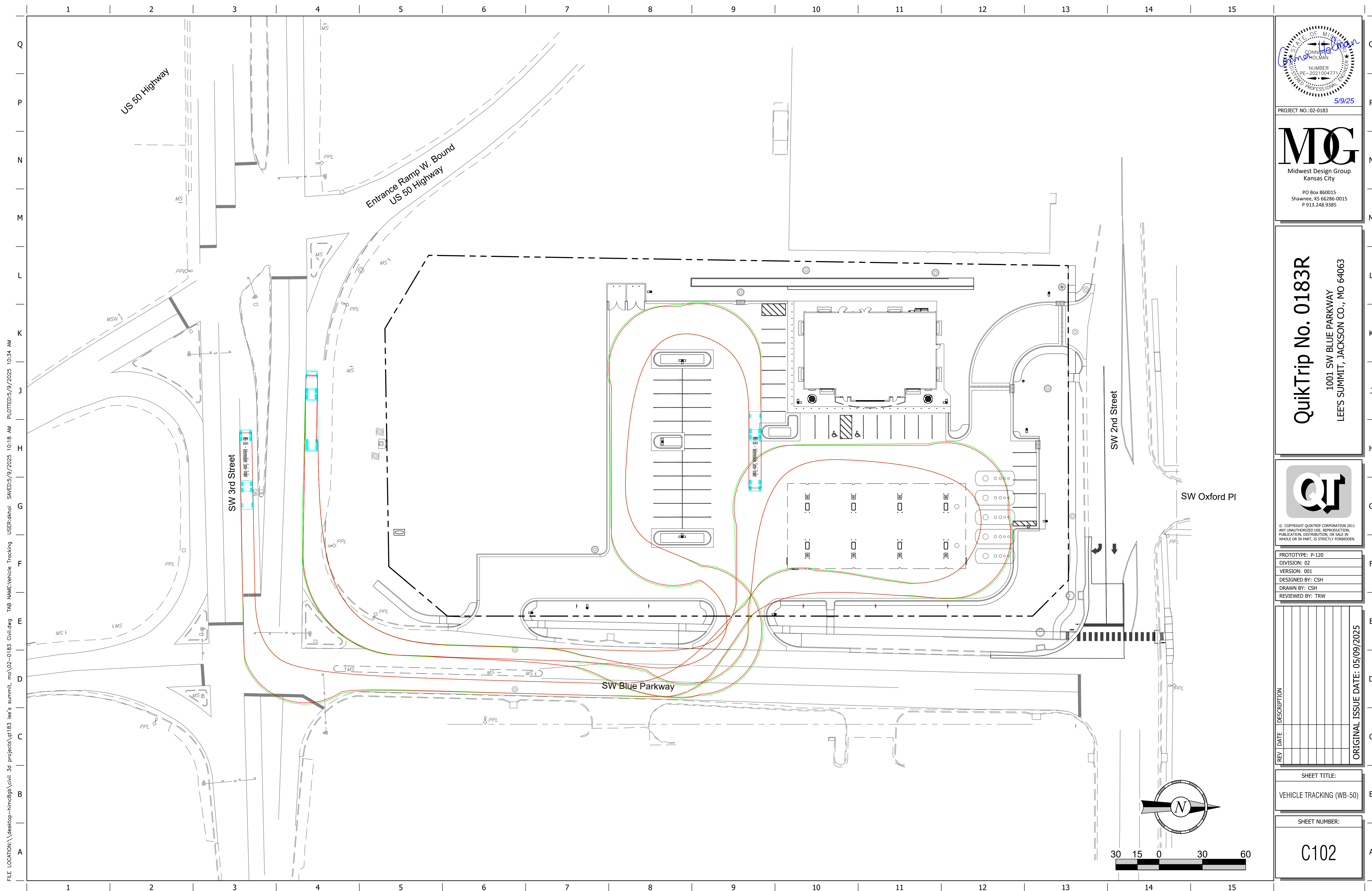
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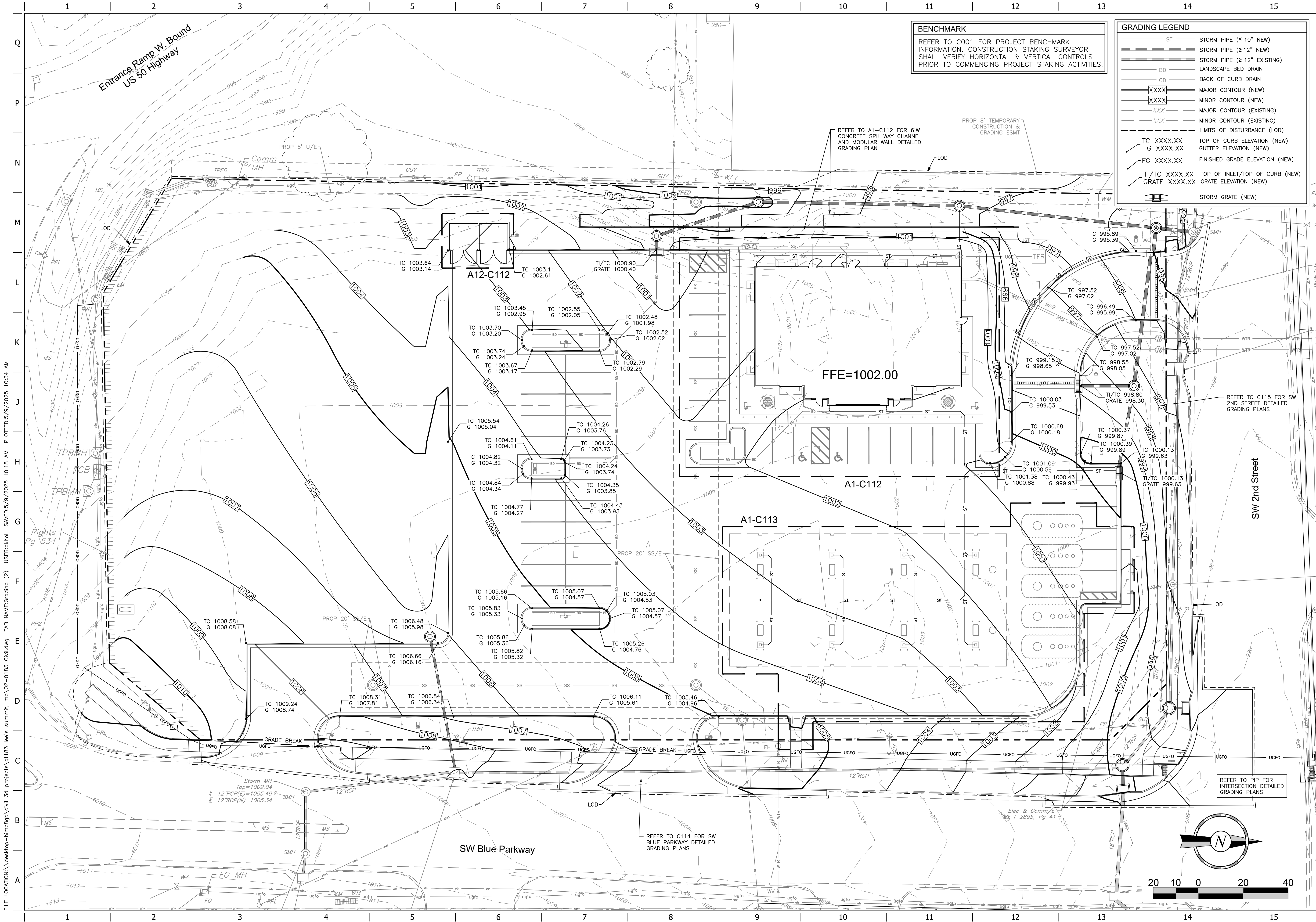
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DEMOLITION PLAN

SHEET NUMBER:
C030









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QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063

Midwest Design Group
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Shawnee, KS 66286-0015
P 913.248.9385

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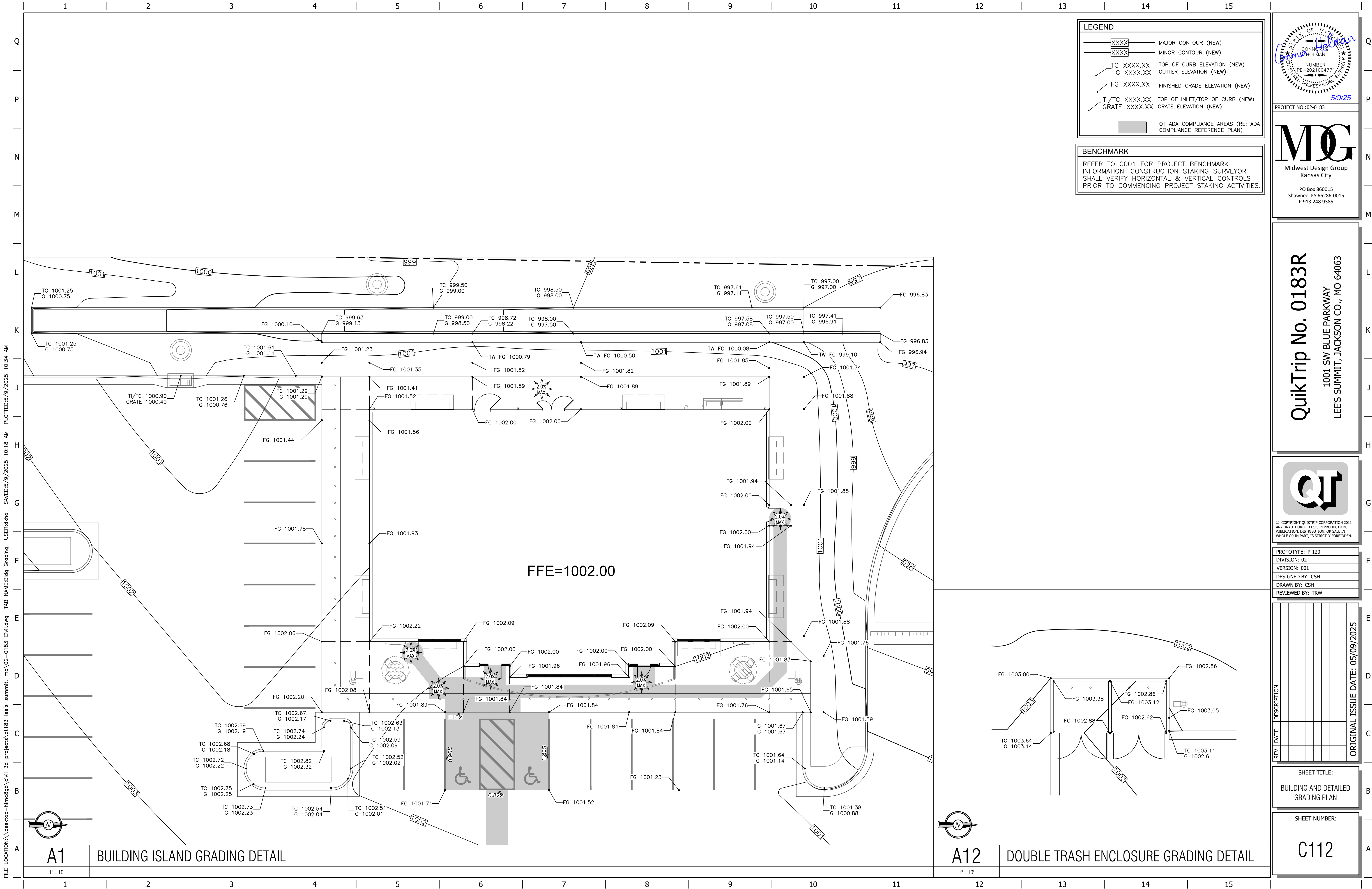
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VERSION: 001
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REVIEWED BY: TRW

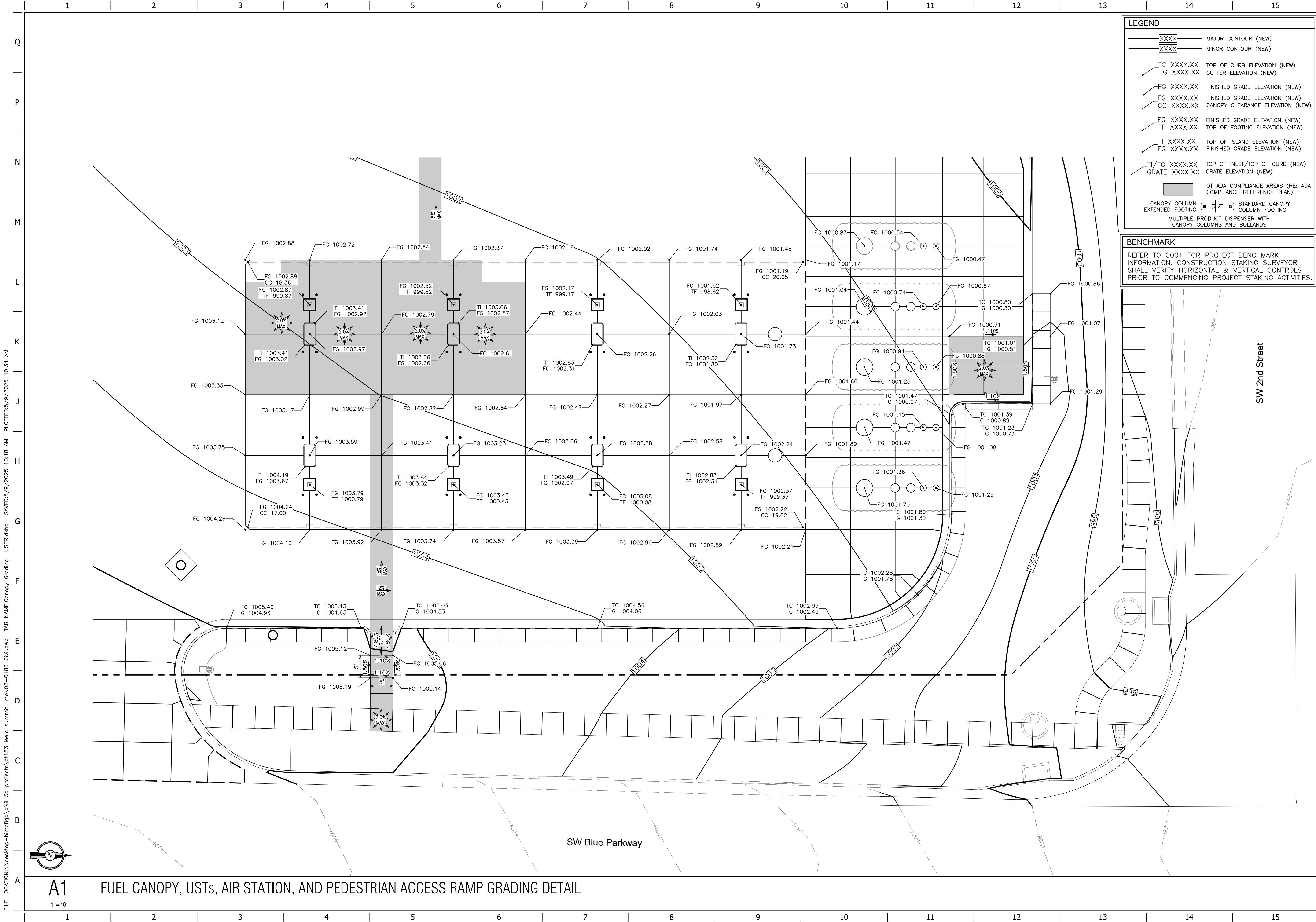
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ORIGINAL ISSUE DATE: 05/09/2025

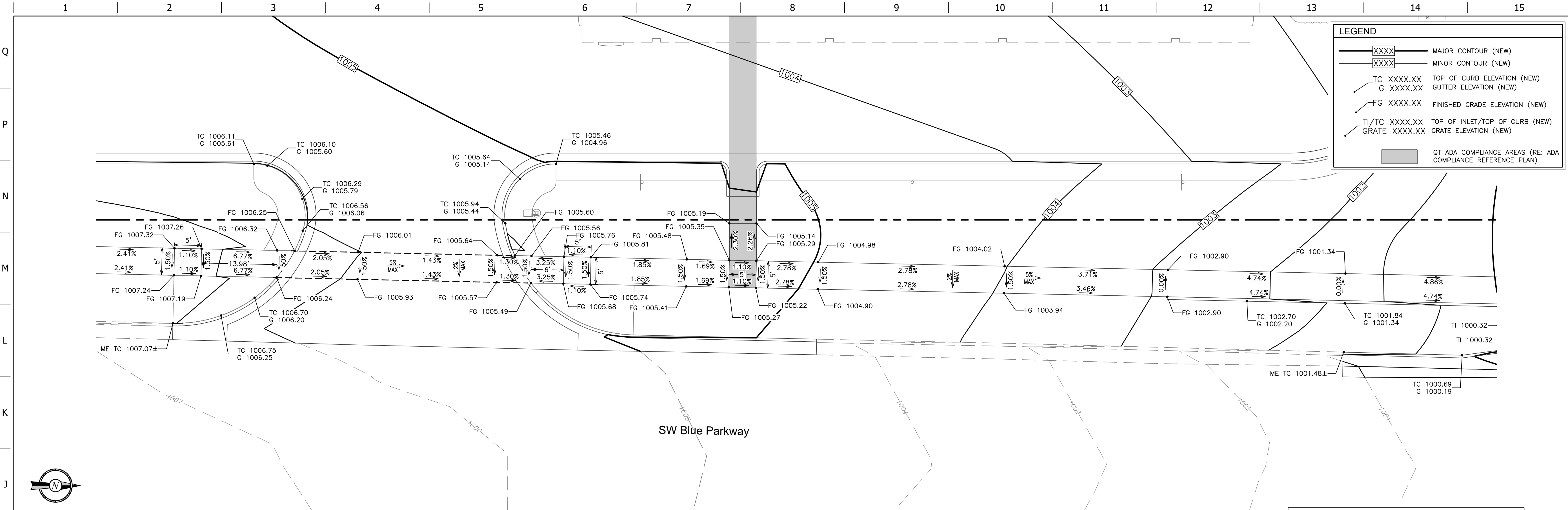
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GRADING PLAN

SHEET NUMBER:
C111



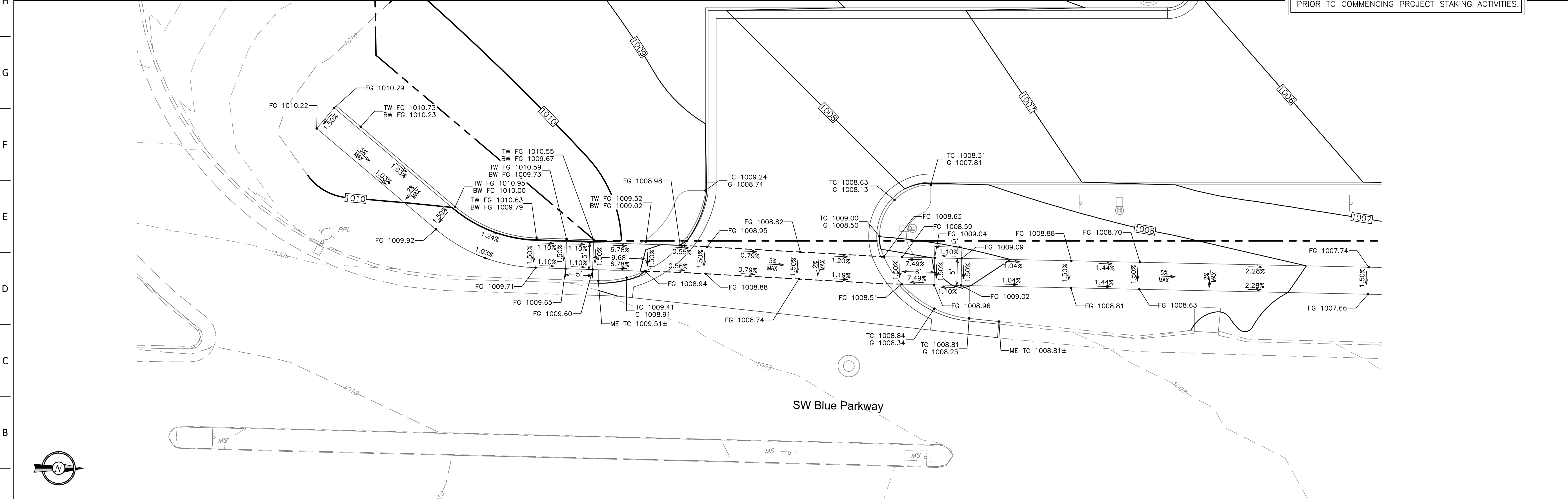


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H1 SW BLUE PARKWAY NORTH DRIVE APPROACH & PUBLIC SIDEWALK GRADING DETAIL
1"=10'

BENCHMARK
REFER TO C001 FOR PROJECT BENCHMARK INFORMATION. CONSTRUCTION STAKING SURVEYOR SHALL VERIFY HORIZONTAL & VERTICAL CONTROLS PRIOR TO COMMENCING PROJECT STAKING ACTIVITIES.



A1 SW BLUE PARKWAY SOUTH DRIVE APPROACH & PUBLIC SIDEWALK GRADING DETAIL
1"=10'

STATE OF MISSOURI

ENGINEER

SEAL

NUMBER

PE-2021004771

DATE

5/9/25

PROJECT NO.: 02-0183

MDG

Midwest Design Group

Kansas City

PO Box 860015

Shawnee, KS 66286-0015

P 913.248.9385

QuikTrip No. 0183R

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QT

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PROTOTYPE: P-120

DIVISION: 02

VERSION: 001

DESIGNED BY: CSH

DRAWN BY: CSH

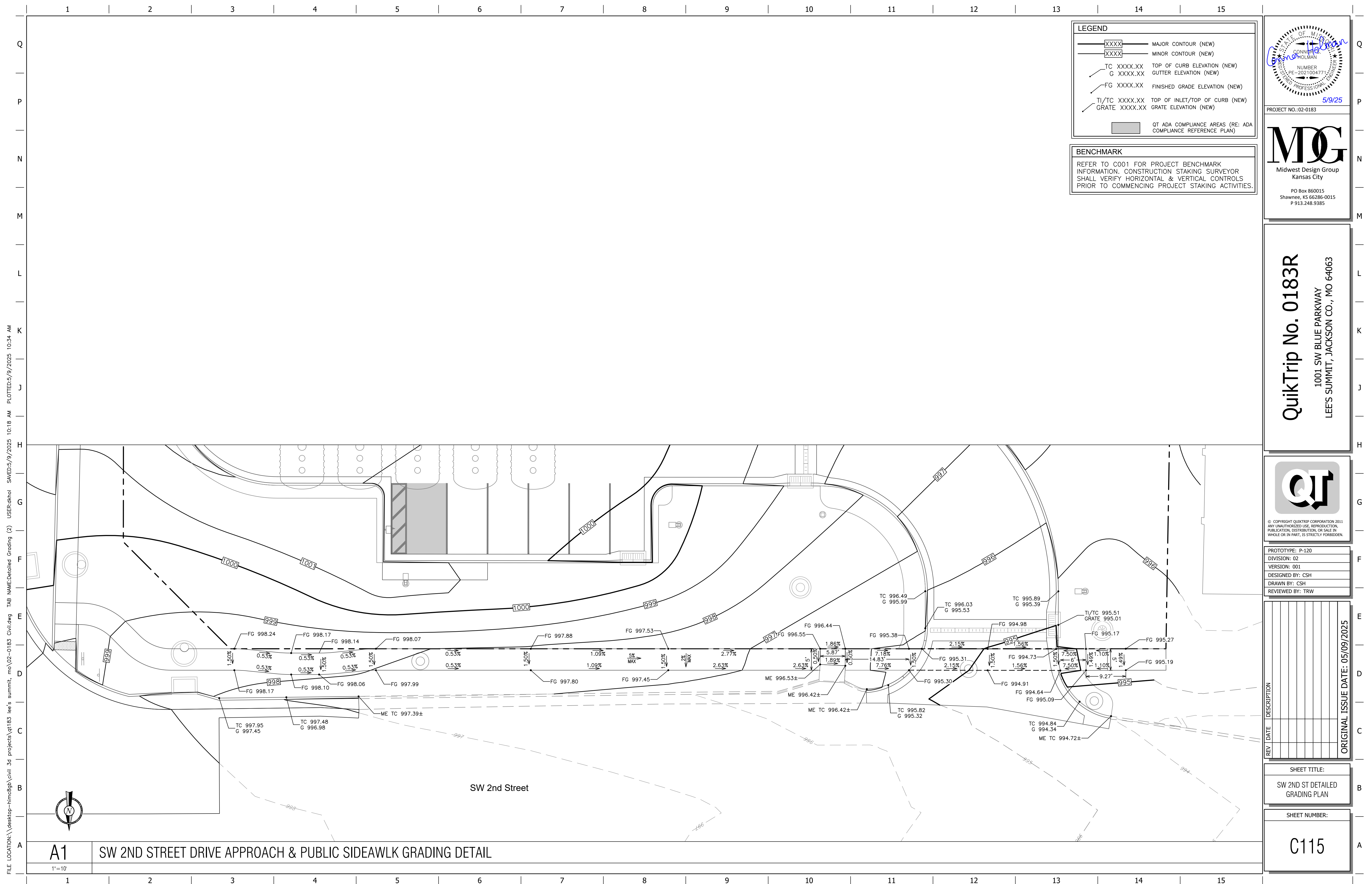
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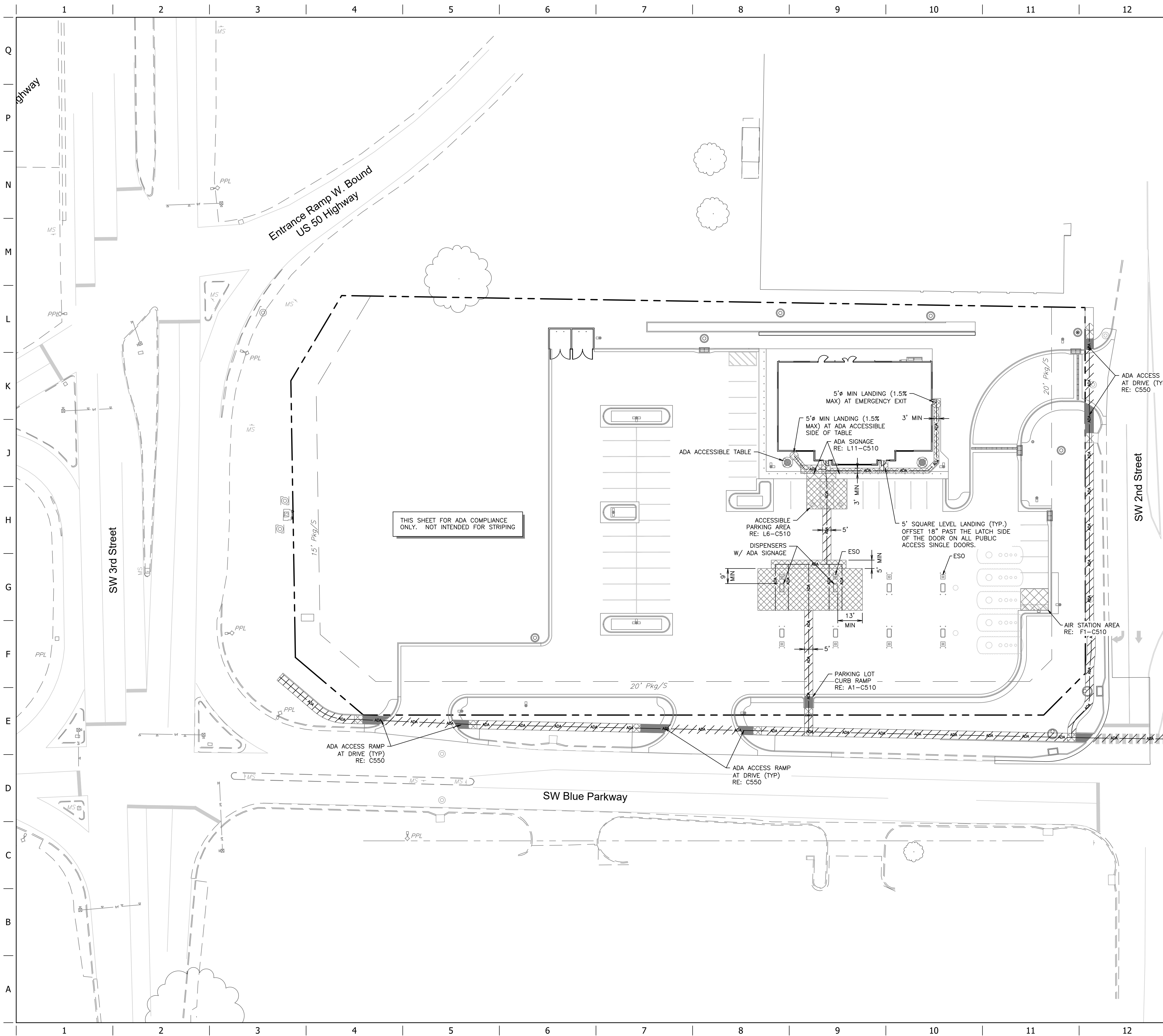
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 05/09/2025

SHEET TITLE:
SW BLUE PKWY DETAILED
GRADING PLAN

SHEET NUMBER:
C114

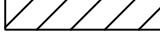




THIS SHEET FOR ADA COMPLIANCE
ONLY. NOT INTENDED FOR STRIPING

ADA GRADING LEGEND

ADA	ADA PATH OF TRAVEL (RE: HATCHING FOR RUNNING & CROSS SLOPE REQUIREMENT)
	HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM SLOPE IN ALL DIRECTIONS WHEN MEASURED WITH A 2' SMART LEVEL. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEETS (C110 SHEETS) FOR SPECIFIC GRADES)

 HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM RUNNING SLOPE WHEN MEASURED WITH A 2' SMART LEVEL. WHEN ADJACENT STREET AREAS ARE OWNED BY THE SAME OWNER ARE CONTAINED WITHIN THE PUBLIC R/W, THEN SIDEWALK RUNNING SLOPE CAN MATCH STREET GRADES. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OUT OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEETS (C110 SHEETS) FOR SPECIFIC GRADES)

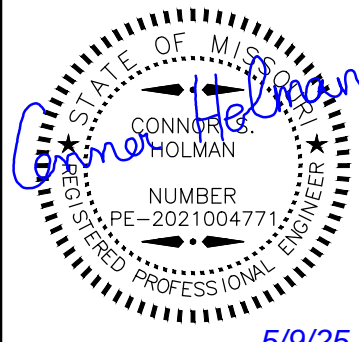
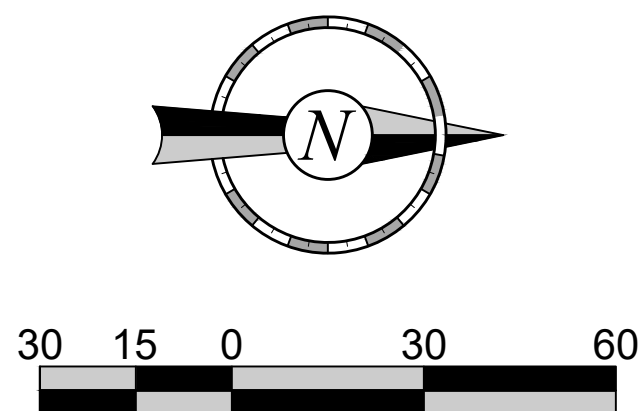
 HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM CROSS SLOPE AND 1:12 MAXIMUM RUNNING SLOPE WHEN MEASURED WITH A 2' SMART LEVEL. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OUT OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEETS (C110 SHEETS) FOR SPECIFIC GRADES)

ADA GENERAL NOTES

1. ANY REQUEST BY A GOVERNING AUTHORITY OR INSPECTOR TO ALTER THE ADA COMPLIANCE DETAILS OR REQUIREMENTS DEPICTED IN THE QUIKTRIP PLANS AND SPECIFICATIONS MUST BE SUBMITTED TO THE QUIKTRIP CONSTRUCTION MANAGER FOR AUTHORIZATION. ANY CHANGES MADE BY A PRIMARY OR SUB-CONTRACTOR WITHOUT AUTHORIZATION FROM THE QUIKTRIP CONSTRUCTION MANAGER SHALL BE DEEMED TO BE NON-COMPLIANT WITH THE DETAILS AS SHOWN IN THE QUIKTRIP PLANS AND SPECIFICATIONS. ANY CHANGES WILL BE REMOVED AND REPLACED AND MADE FULLY COMPLIANT REGARDLESS OF MAGNITUDE AT THE PRIMARY AND/OR SUB-CONTRACTOR'S EXPENSE. THE QUIKTRIP SHALL BE RESPONSIBLE FOR THE COSTS OF ANY CHANGES TO THE ADDITIONAL OR DENIAL OF CHANGES TO ADA RELATED DETAILS OR MOUNTING DIMENSIONS.
2. RE: GRADING PLAN SHEETS (C110 SHEETS) FOR FINAL GRADES.
3. ALL NEW SIDEWALKS (INCLUDING SIDEWALKS TO BE REMOVED & REPLACED) SHALL NOT EXCEED 2% GROSS SLOPE & 5% RUNNING SLOPE. FOR SIDEWALKS CONTAINED WITHIN THE PUBLIC R/W AND WHEN ADJACENT STREET GRADIES EXCEED 5%, THEN SIDEWALK RUNNING SLOPES MAY MATCH STREET GRADIES.
4. 1/8" MAXIMUM DEPTH TO TOP OF SEALANT AND 1/8" MAXIMUM PROTRUSION TO TOP OF SEALANT ALONG ADA ACCESS ROUTES. (RE: A1-C521)

AUTO PARKING REQUIREMENTS

PARKING REQUIRED: UNKNOWN
PARKING PROVIDED: 47
ACCESSIBLE PARKING REQUIRED: 2
ACCESSIBLE PARKING PROVIDED: 2



PROJECT NO.:02-0183



PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063



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PROTOTYPE: P-120

DIVISION: 02

VERSION: 001

DESIGNED BY: CSH

REVIEWED BY: TRM

[illegible]

SHEET TITLE:

ADA COMPLIANCE
REFERENCE PLAN

SHEET NUMBER

C116



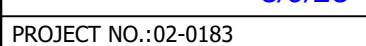
9/2025 10:18 AM PLOTTED:5/9/2025 10:35 AM

dkho

il.dwg	TAB NAME:Storm	Calcs	U's
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s\qt183 lee's summit, mo\02-018

TON: \\desktop-himc8gb\\civil 3d p



QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64603



DIVISION: 02

DRAWN BY: CSH

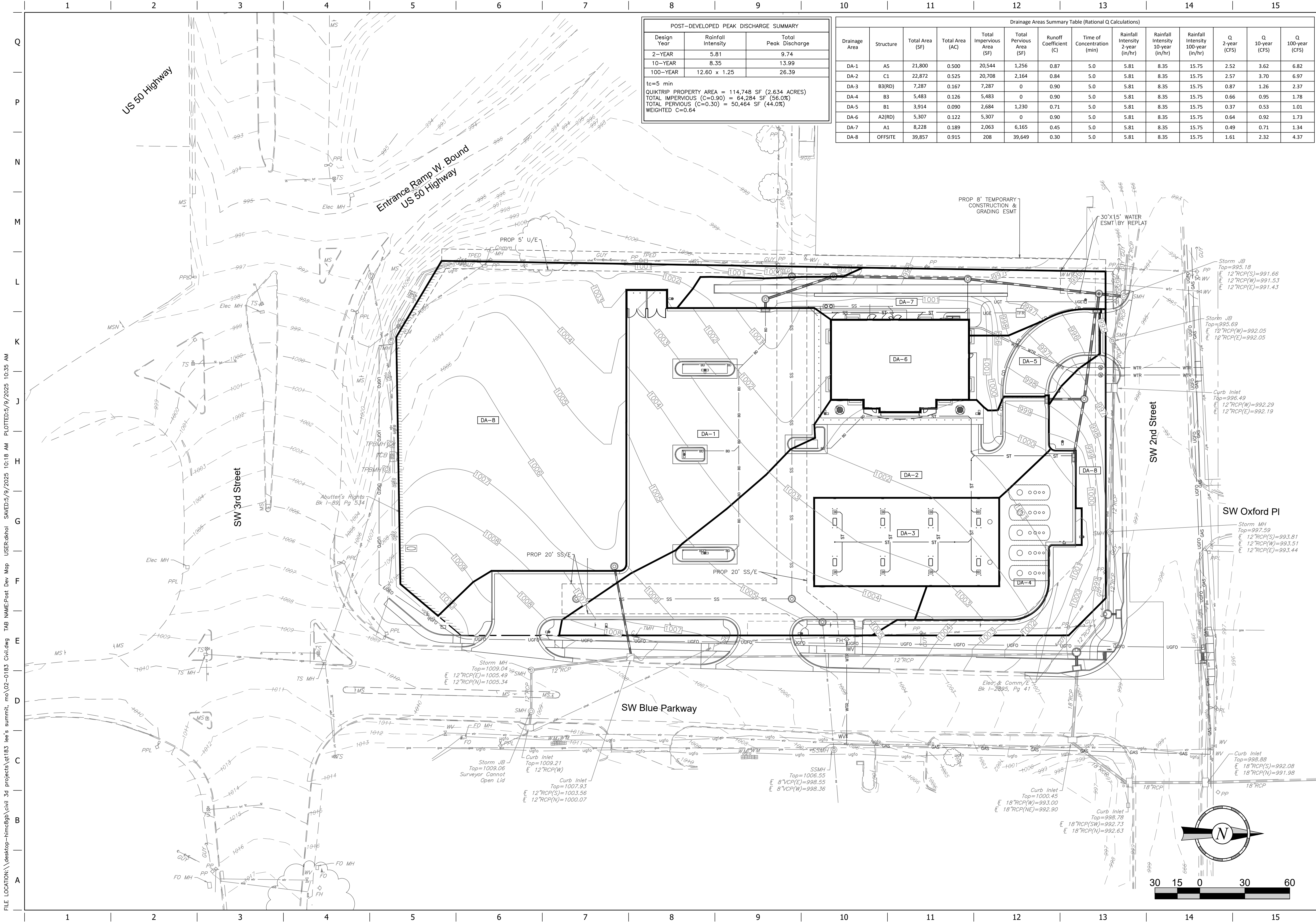
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SHEET TITLE:

STORM SEWER CALCULATIONS

SHEET NUMBER:

C123



POST-DEVELOPED PEAK DISCHARGE SUMMARY		
Design Year	Rainfall Intensity	Total Peak Discharge
2-YEAR	5.81	9.74
10-YEAR	8.35	13.99
100-YEAR	12.60 x 1.25	26.39

tc=5 min
QUICKTRIP PROPERTY AREA = 114,748 SF (2.634 ACRES)
TOTAL IMPERVIOUS (C=0.90) = 64,284 SF (56.0%)
TOTAL PERVIOUS (C=0.30) = 50,464 SF (44.0%)
WEIGHTED C=0.64

Drainage Areas Summary Table (Rational Q Calculations)											
Drainage Area	Structure	Total Area (SF)	Total Area (AC)	Total Impervious Area (SF)	Total Pervious Area (SF)	Runoff Coefficient (C)	Time of Concentration (min)	Rainfall Intensity 2-year (in/hr)	Rainfall Intensity 10-year (in/hr)	Rainfall Intensity 100-year (in/hr)	Q 2-year (CFS)
DA-1	A5	21,800	0.500	20,544	1,256	0.87	5.0	5.81	8.35	15.75	2.52
DA-2	C1	22,872	0.525	20,708	2,164	0.84	5.0	5.81	8.35	15.75	2.57
DA-3	B3(RD)	7,287	0.167	7,287	0	0.90	5.0	5.81	8.35	15.75	0.87
DA-4	B3	5,483	0.126	5,483	0	0.90	5.0	5.81	8.35	15.75	0.66
DA-5	B1	3,914	0.090	2,684	1,230	0.71	5.0	5.81	8.35	15.75	0.37
DA-6	A2(RD)	5,307	0.122	5,307	0	0.90	5.0	5.81	8.35	15.75	0.64
DA-7	A1	8,228	0.189	2,063	6,165	0.45	5.0	5.81	8.35	15.75	0.49
DA-8	OFFSITE	39,857	0.915	208	39,649	0.30	5.0	5.81	8.35	15.75	1.61
											2.32
											4.37

PROJECT NO.: 02-0183

MDG
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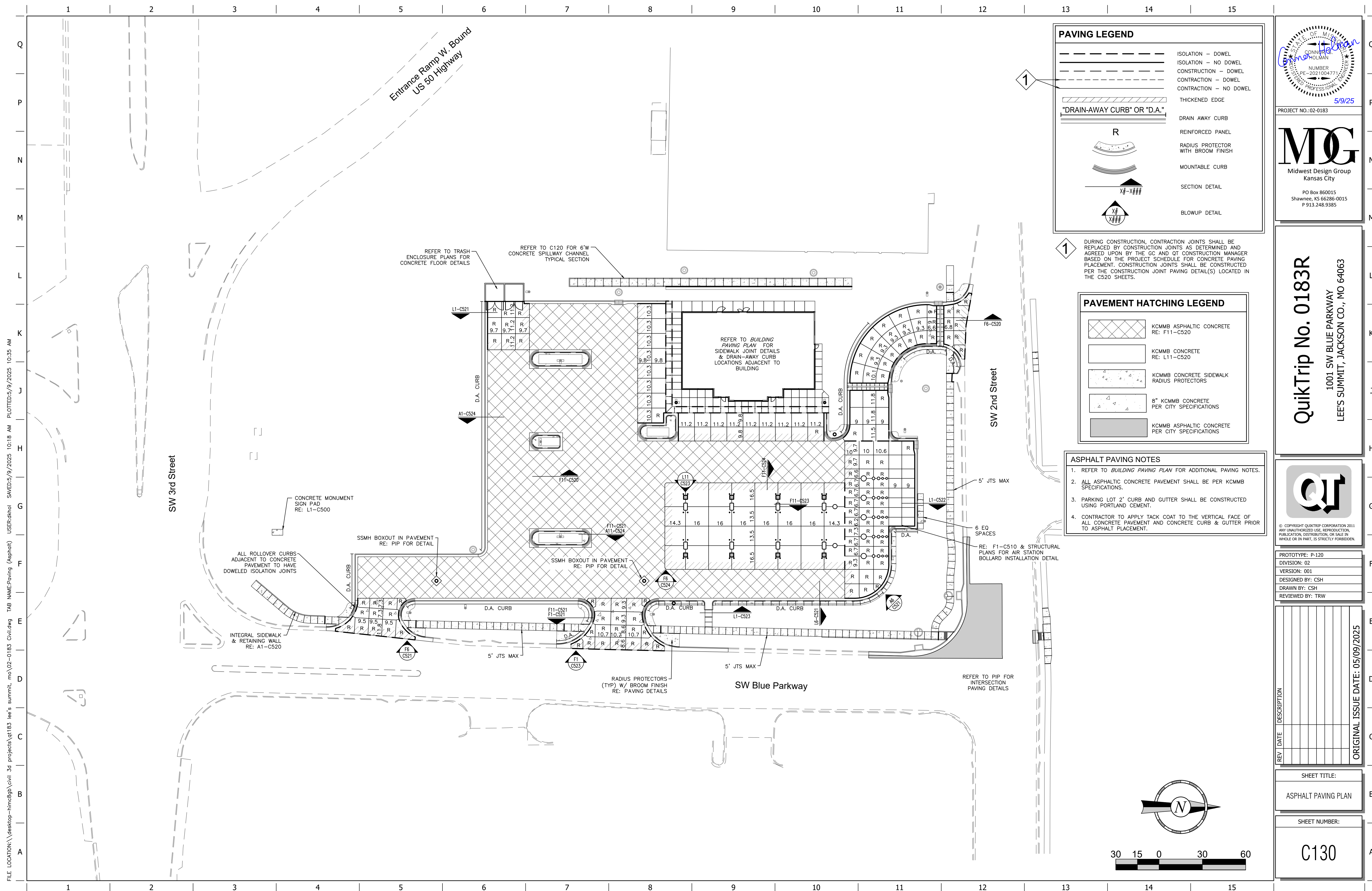
PROTOTYPE:	P-120
DIVISION:	02
VERSION:	001
DESIGNED BY:	CSH
DRAWN BY:	CSH
REVIEWED BY:	TRW

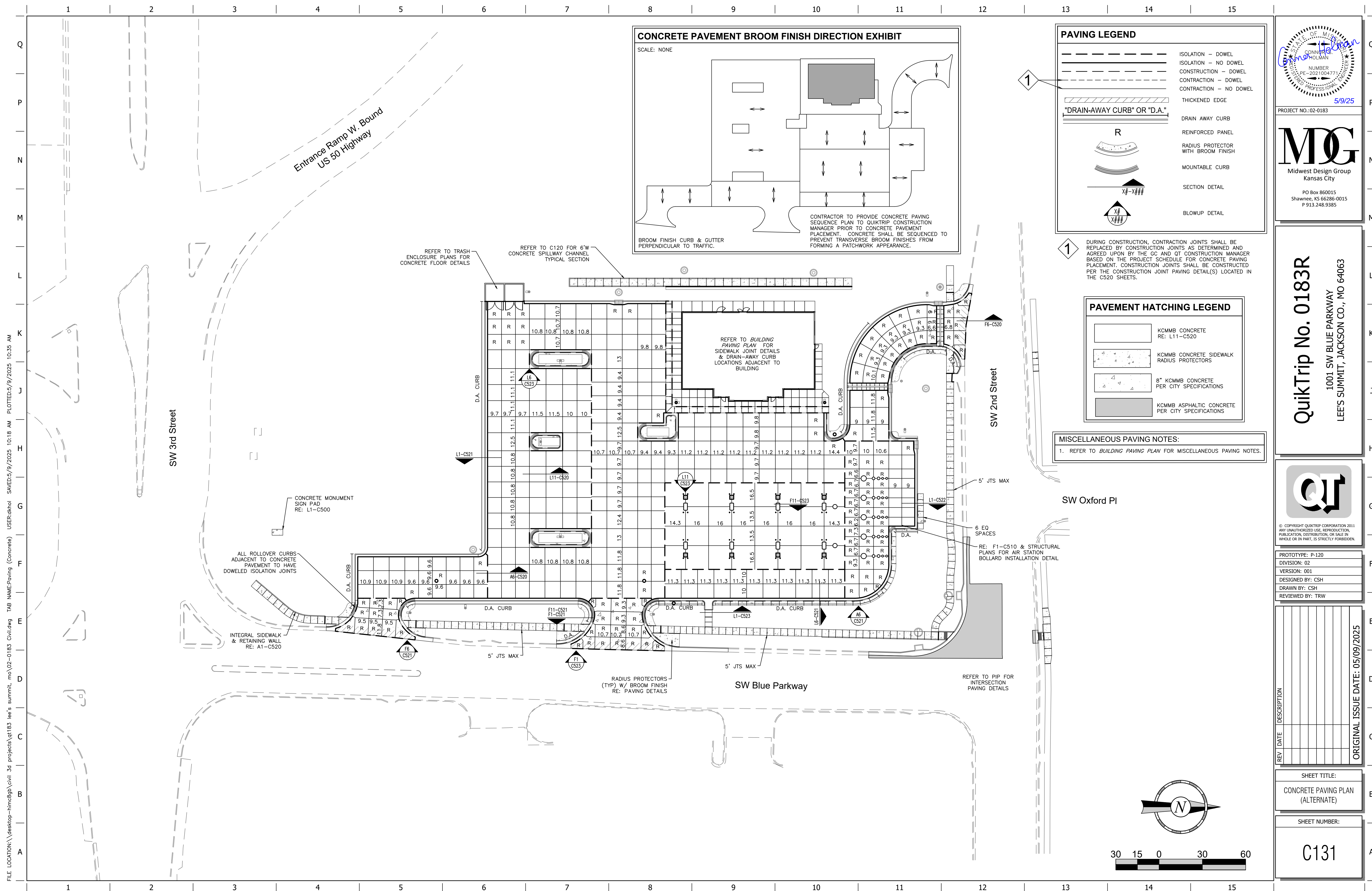
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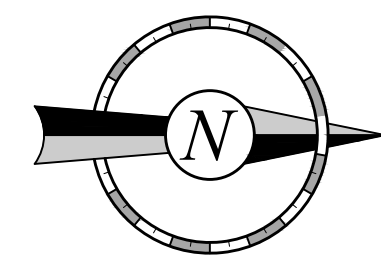
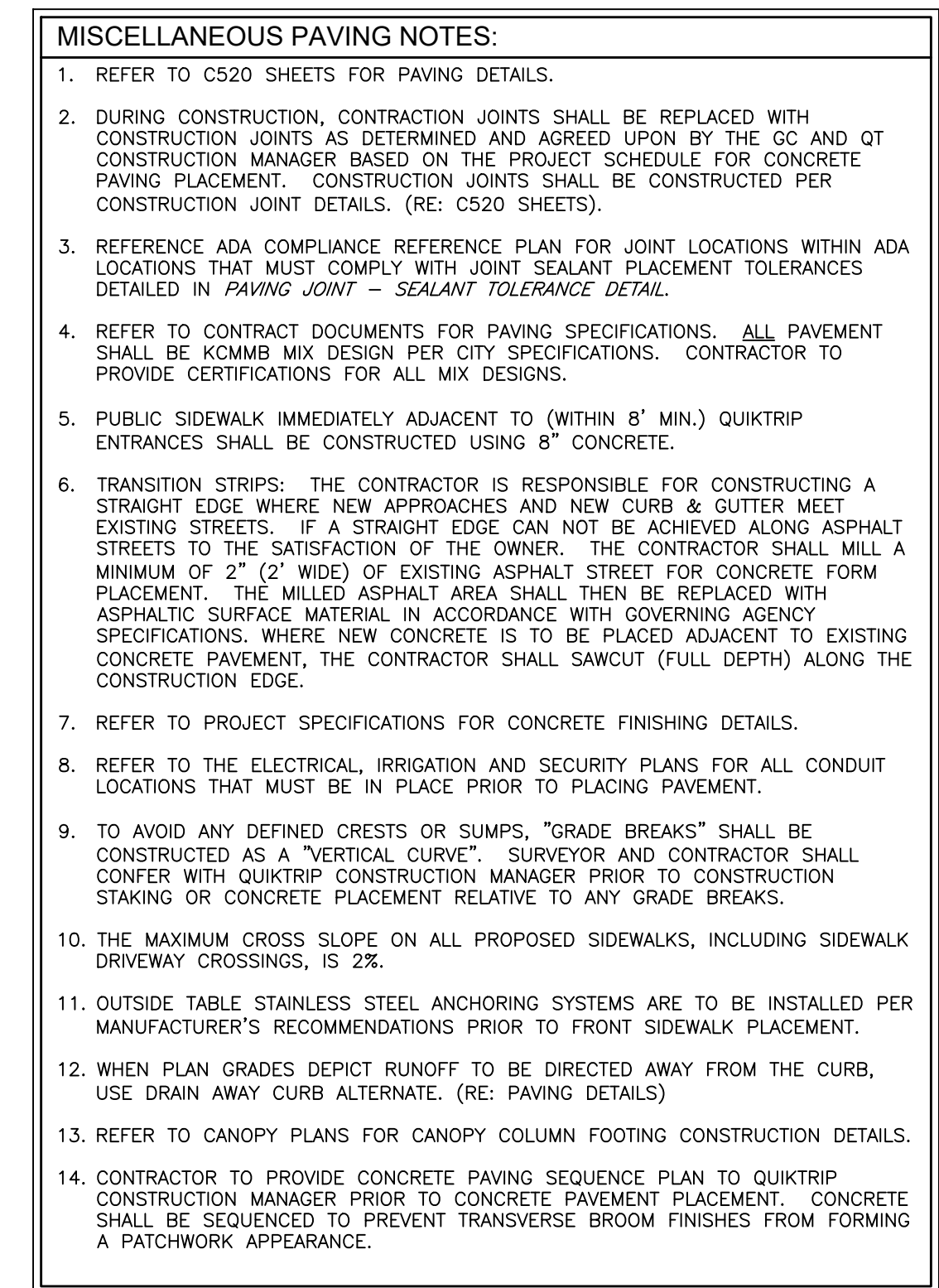
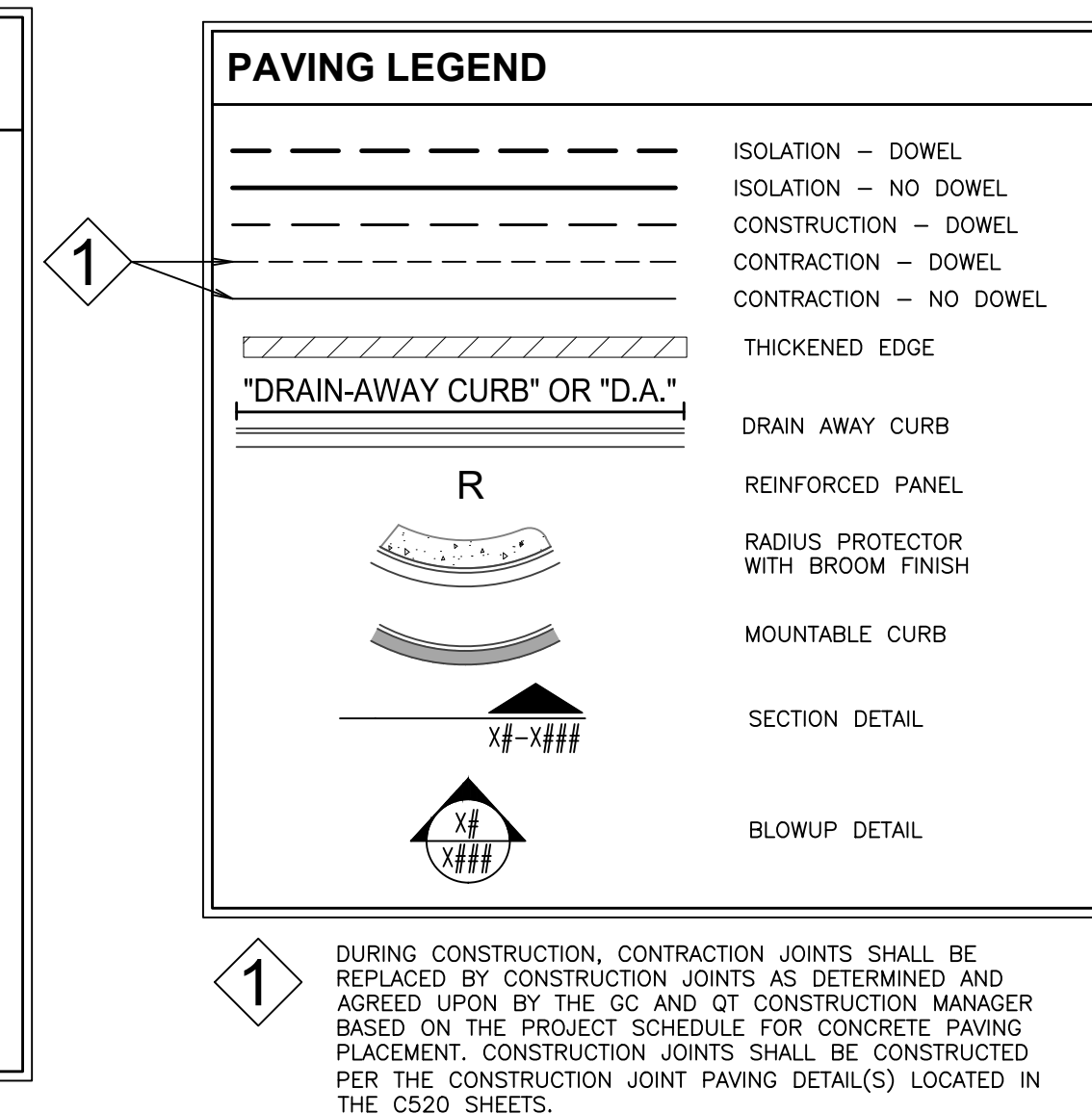
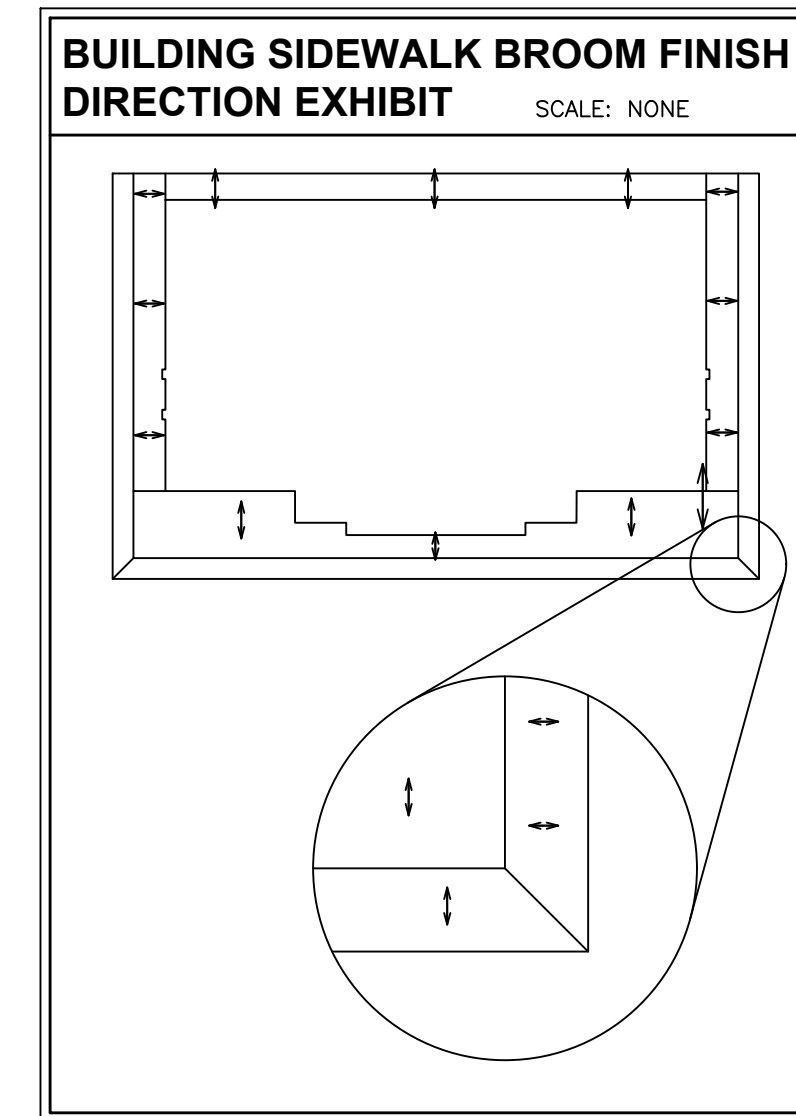
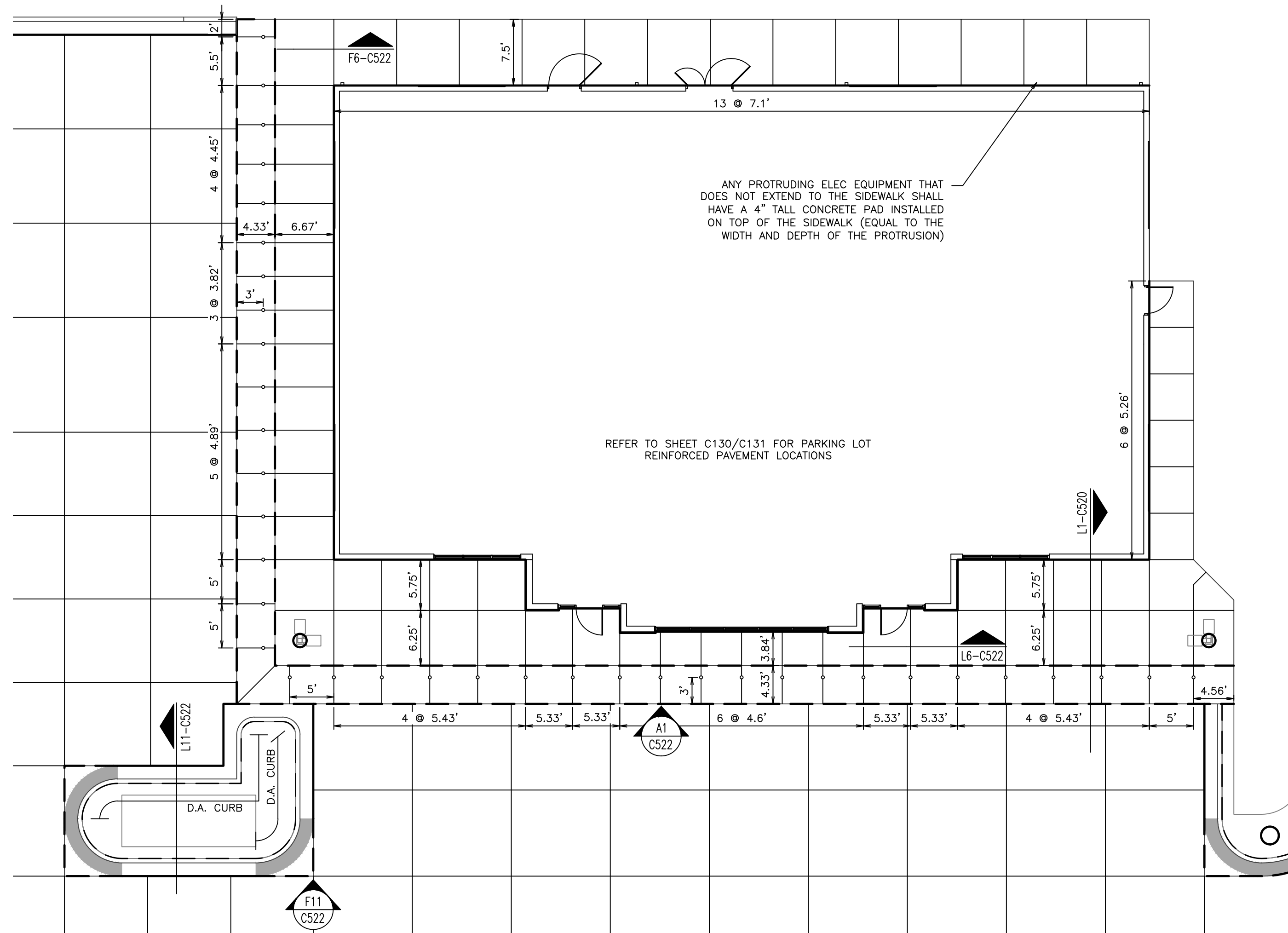
ORIGINAL ISSUE DATE: 05/09/2025

SHEET TITLE:
POST-DEVELOPED
DRAINAGE AREA MAP

SHEET NUMBER:
C125







PROJECT NO.:02-0183



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PROTOTYPE: P-120

DIVISION: 02

VERSION: 001

DESIGNED BY: CSH

REVIEWED BY: TRM

[illegible]

ORIGINAL ISSUE DATE: 05/09/2025

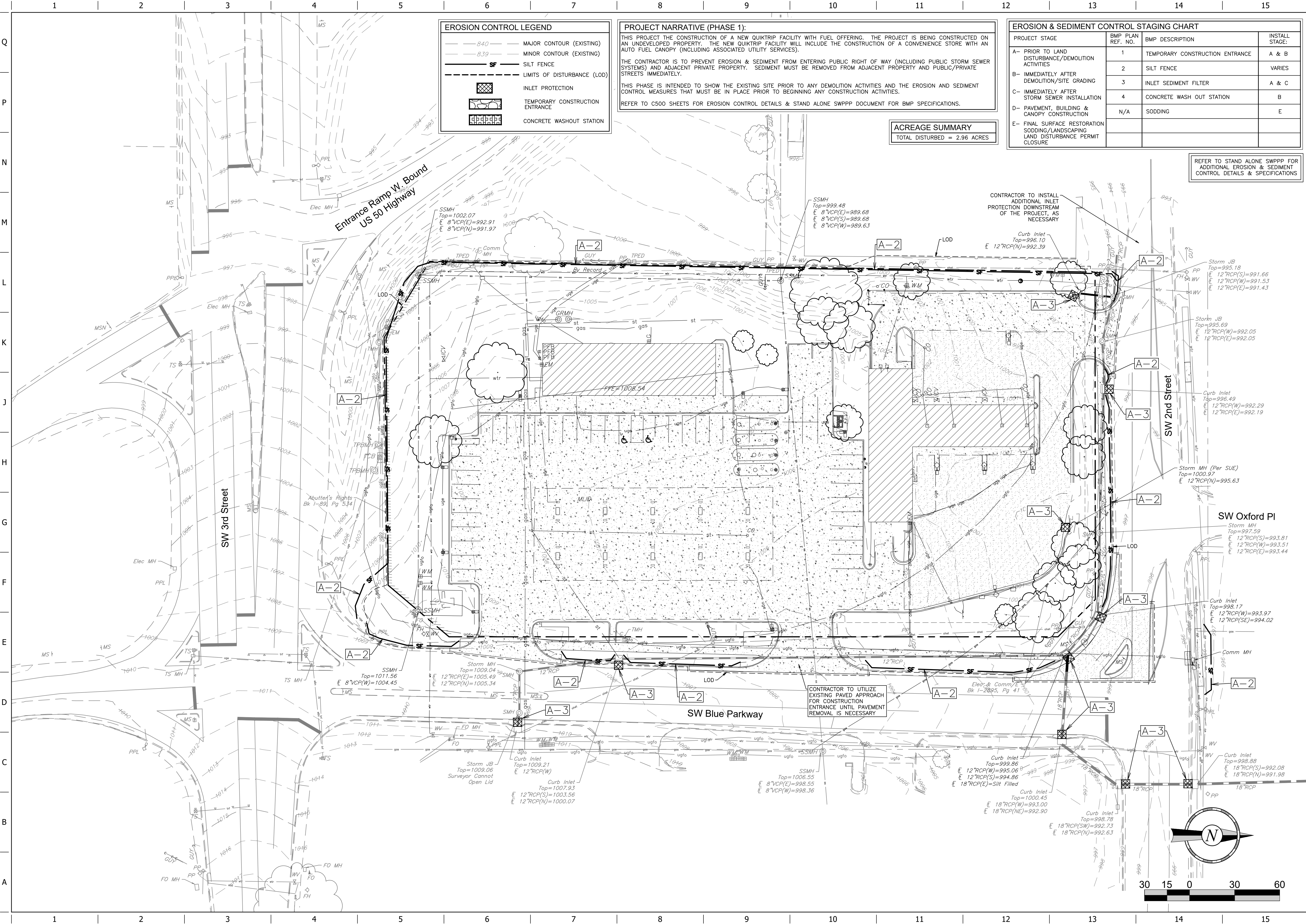
SHEET TITLE:

BUILDING PAVING PLAN

SHEET NUMBER:

C132

FILE LOCATION: \\desktop-hmc2gpc\civil 3d projects\qt183r lee's summit, mo\02-02-0183 Civil.dwg TAB NAME:Erosion PH 1 USER:rdmhdn1 SAVED:5/9/2025 10:18 AM PLOTTED:5/9/2025 10:35 AM



EROSION CONTROL LEGEND

- 84.0 MAJOR CONTOUR (EXISTING)
- 83.9 MINOR CONTOUR (EXISTING)
- SF SILT FENCE
- LIMITS OF DISTURBANCE (LOD)
- [Symbol] INLET PROTECTION
- [Symbol] TEMPORARY CONSTRUCTION ENTRANCE
- [Symbol] CONCRETE WASHOUT STATION

PROJECT NARRATIVE (PHASE 1):

THIS PROJECT THE CONSTRUCTION OF A NEW QUIKTRIP FACILITY WITH FUEL OFFERING. THE PROJECT IS BEING CONSTRUCTED ON AN UNDEVELOPED PROPERTY. THE NEW QUIKTRIP FACILITY WILL INCLUDE THE CONSTRUCTION OF A CONVENIENCE STORE WITH AN AUTO FUEL CANOPY (INCLUDING ASSOCIATED UTILITY SERVICES).

THE CONTRACTOR IS TO PREVENT EROSION & SEDIMENT FROM ENTERING PUBLIC RIGHT OF WAY (INCLUDING PUBLIC STORM SEWER SYSTEMS) AND ADJACENT PRIVATE PROPERTY. SEDIMENT MUST BE REMOVED FROM ADJACENT PROPERTY AND PUBLIC/PRIVATE STREETS IMMEDIATELY.

THIS PHASE IS INTENDED TO SHOW THE EXISTING SITE PRIOR TO ANY DEMOLITION ACTIVITIES AND THE EROSION AND SEDIMENT CONTROL MEASURES THAT MUST BE IN PLACE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

REFER TO C500 SHEETS FOR EROSION CONTROL DETAILS & STAND ALONE SWPPP DOCUMENT FOR BMP SPECIFICATIONS.

ACREAGE SUMMARY

TOTAL DISTURBED = 2.96 ACRES

EROSION & SEDIMENT CONTROL STAGING CHART			
PROJECT STAGE	BMP PLAN REF. NO.	BMP DESCRIPTION	INSTALL STAGE:
A- PRIOR TO LAND DISTURBANCE/DEMOLITION ACTIVITIES	1	TEMPORARY CONSTRUCTION ENTRANCE	A & B
B- IMMEDIATELY AFTER DEMOLITION/SITE GRADING	2	SILT FENCE	VARIES
C- IMMEDIATELY AFTER STORM SEWER INSTALLATION	3	INLET SEDIMENT FILTER	A & C
D- PAVEMENT, BUILDING & CANOPY CONSTRUCTION	4	CONCRETE WASH OUT STATION	B
E- FINAL SURFACE RESTORATION SODDING/LANDSCAPING LAND DISTURBANCE PERMIT CLOSURE	N/A	SODDING	E

REFER TO STAND ALONE SWPPP FOR ADDITIONAL EROSION & SEDIMENT CONTROL DETAILS & SPECIFICATIONS

PROJECT NO.:02-0183

Midwest Design Group
Kansas City

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Shawnee, KS 66286-0015
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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
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PROTOTYPE:	P-120
DIVISION:	02
VERSION:	001
DESIGNED BY:	CSH
DRAWN BY:	CSH
REVIEWED BY:	TRW

REV	DATE	DESCRIPTION

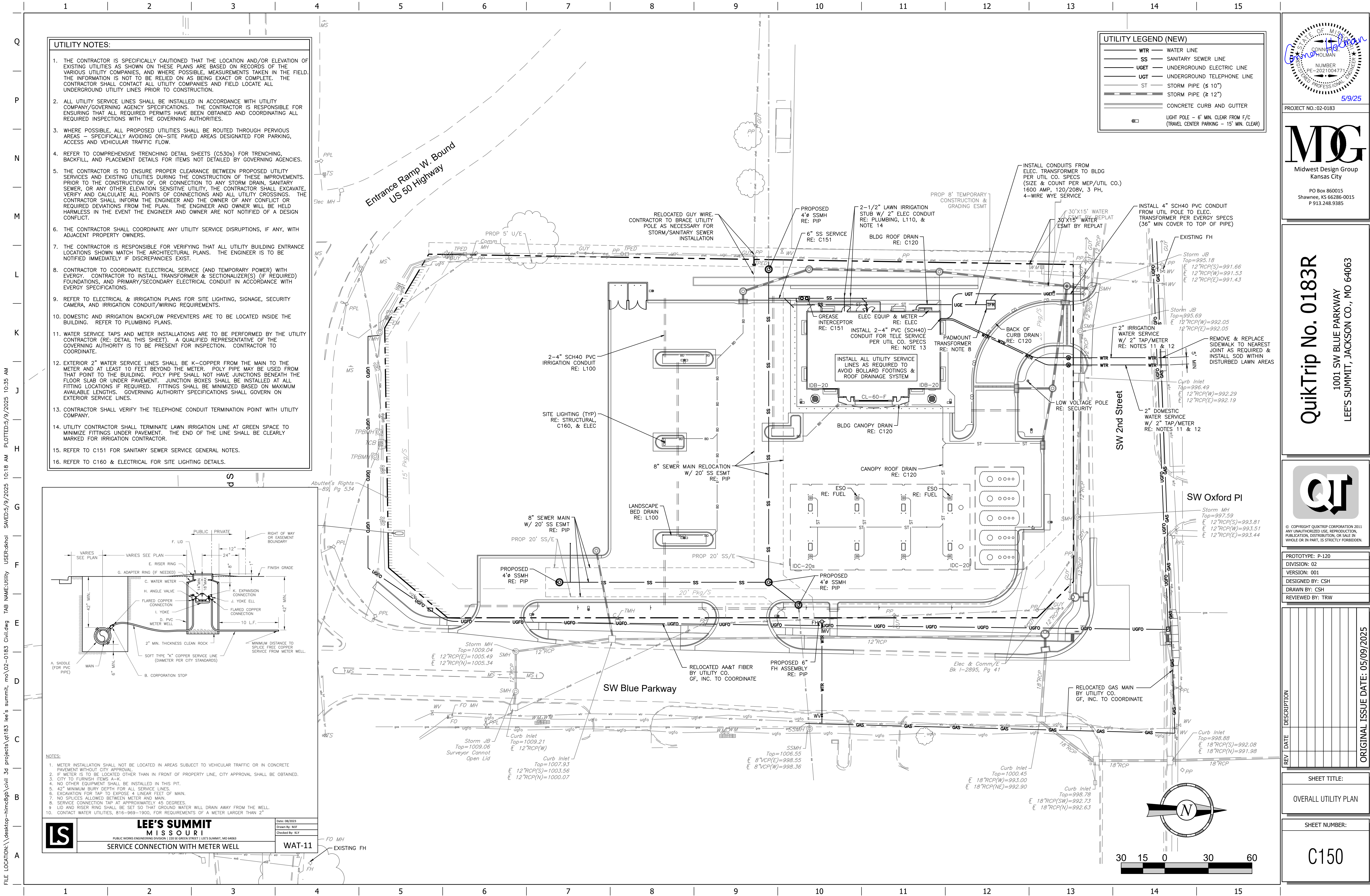
SHEET TITLE:

**EROSION CONTROL PLAN
PHASE 1**

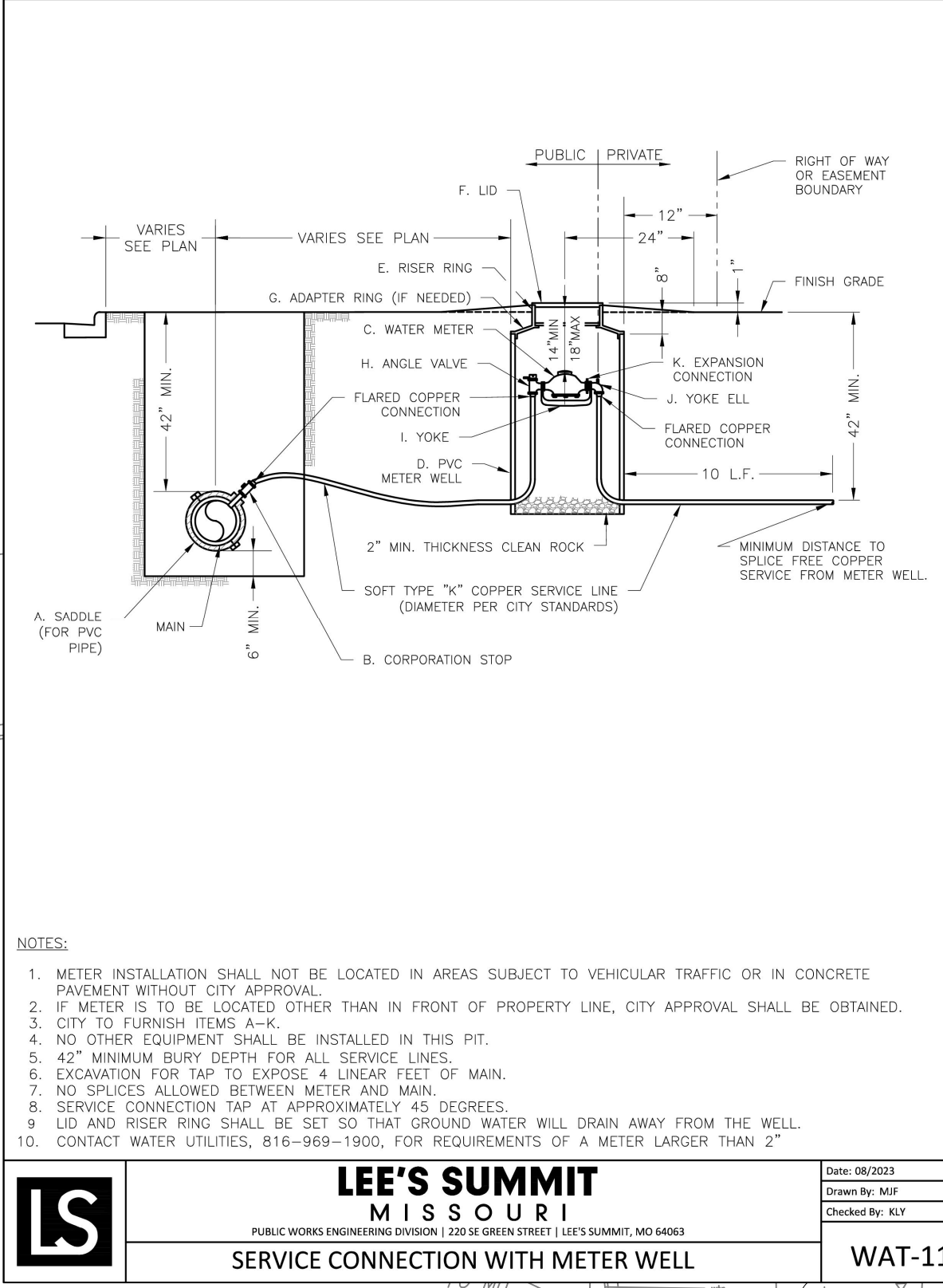
SHEET NUMBER:

C140

ORIGINAL ISSUE DATE: 05/09/2025



- UTILITY NOTES:**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND FIELD LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO CONSTRUCTION.
 - ALL UTILITY SERVICE LINES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY/GOVERNING AGENCY SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND COORDINATING ALL REQUIRED INSPECTIONS WITH THE GOVERNING AUTHORITIES.
 - WHERE POSSIBLE, ALL PROPOSED UTILITIES SHALL BE ROUTED THROUGH PERVIOUS AREAS - SPECIFICALLY AVOIDING ON-SITE PAVED AREAS DESIGNATED FOR PARKING, ACCESS AND VEHICULAR TRAFFIC FLOW.
 - REFER TO COMPREHENSIVE TRENCHING DETAIL SHEETS (C530s) FOR TRENCHING, BACKFILL, AND PLACEMENT DETAILS FOR ITEMS NOT DETAILED BY GOVERNING AGENCIES.
 - THE CONTRACTOR IS TO ENSURE PROPER CLEARANCE BETWEEN PROPOSED UTILITY SERVICES AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THESE IMPROVEMENTS. PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, OR ANY OTHER ELEVATION SENSITIVE UTILITY, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. THE ENGINEER AND OWNER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER AND OWNER ARE NOT NOTIFIED OF A DESIGN CONFLICT.
 - THE CONTRACTOR SHALL COORDINATE ANY UTILITY SERVICE DISRUPTIONS, IF ANY, WITH ADJACENT PROPERTY OWNERS.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL UTILITY BUILDING ENTRANCE LOCATIONS SHOWN MATCH THE ARCHITECTURAL PLANS. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF DISCREPANCIES EXIST.
 - CONTRACTOR TO COORDINATE ELECTRICAL SERVICE (AND TEMPORARY POWER) WITH EVERY. CONTRACTOR TO INSTALL TRANSFORMER & SECTIONALIZER(S) (IF REQUIRED) FOUNDATIONS, AND PRIMARY/SECONDARY ELECTRICAL CONDUIT IN ACCORDANCE WITH EVERY SPECIFICATIONS.
 - REFER TO ELECTRICAL & IRRIGATION PLANS FOR SITE LIGHTING, SIGNAGE, SECURITY CAMERA, AND IRRIGATION CONDUIT/WIRING REQUIREMENTS.
 - DOMESTIC AND IRRIGATION BACKFLOW PREVENTERS ARE TO BE LOCATED INSIDE THE BUILDING. REFER TO PLUMBING PLANS.
 - WATER SERVICE TAPS AND METER INSTALLATIONS ARE TO BE PERFORMED BY THE UTILITY CONTRACTOR (RE: DETAIL THIS SHEET). A QUALIFIED REPRESENTATIVE OF THE GOVERNING AUTHORITY IS TO BE PRESENT FOR INSPECTION. CONTRACTOR TO COORDINATE.
 - EXTERIOR 2" WATER SERVICE LINES SHALL BE K-COPPER FROM THE MAIN TO THE METER AND AT LEAST 10 FEET BEYOND THE METER. POLY PIPE MAY BE USED FROM THAT POINT TO THE BUILDING. POLY PIPE SHALL NOT HAVE JUNCTIONS BENEATH THE FLOOR SLAB OR UNDER PAVEMENT. JUNCTION BOXES SHALL BE INSTALLED AT ALL FITTING LOCATIONS IF REQUIRED. FITTINGS SHALL BE MINIMIZED BASED ON MAXIMUM AVAILABLE LENGTHS. GOVERNING AUTHORITY SPECIFICATIONS SHALL GOVERN ON EXTERIOR SERVICE LINES.
 - CONTRACTOR SHALL VERIFY THE TELEPHONE CONDUIT TERMINATION POINT WITH UTILITY COMPANY.
 - UTILITY CONTRACTOR SHALL TERMINATE LAWN IRRIGATION LINE AT GREEN SPACE TO MINIMIZE FITTINGS UNDER PAVEMENT. THE END OF THE LINE SHALL BE CLEARLY MARKED FOR IRRIGATION CONTRACTOR.
 - REFER TO C151 FOR SANITARY SEWER SERVICE GENERAL NOTES.
 - REFER TO C160 & ELECTRICAL FOR SITE LIGHTING DETAILS.



UTILITY LEGEND (NEW)

WTR	WATER LINE
SS	SANITARY SEWER LINE
UGT	UNDERGROUND ELECTRIC LINE
UGT	UNDERGROUND TELEPHONE LINE
ST	STORM PIPE (≤ 10")
ST	STORM PIPE (≥ 12")
	CONCRETE CURB AND GUTTER
	LIGHT POLE - 6' MIN. CLEAR FROM F/C (TRAVEL CENTER PARKING - 15' MIN. CLEAR)

QUICKTRIP
CONSTRUCTION
NUMBER
P-0221004771
5/9/25
PROJECT NO.: 02-0183

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
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QuikTrip No. 0183R
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LEE'S SUMMIT, JACKSON CO., MO 64063

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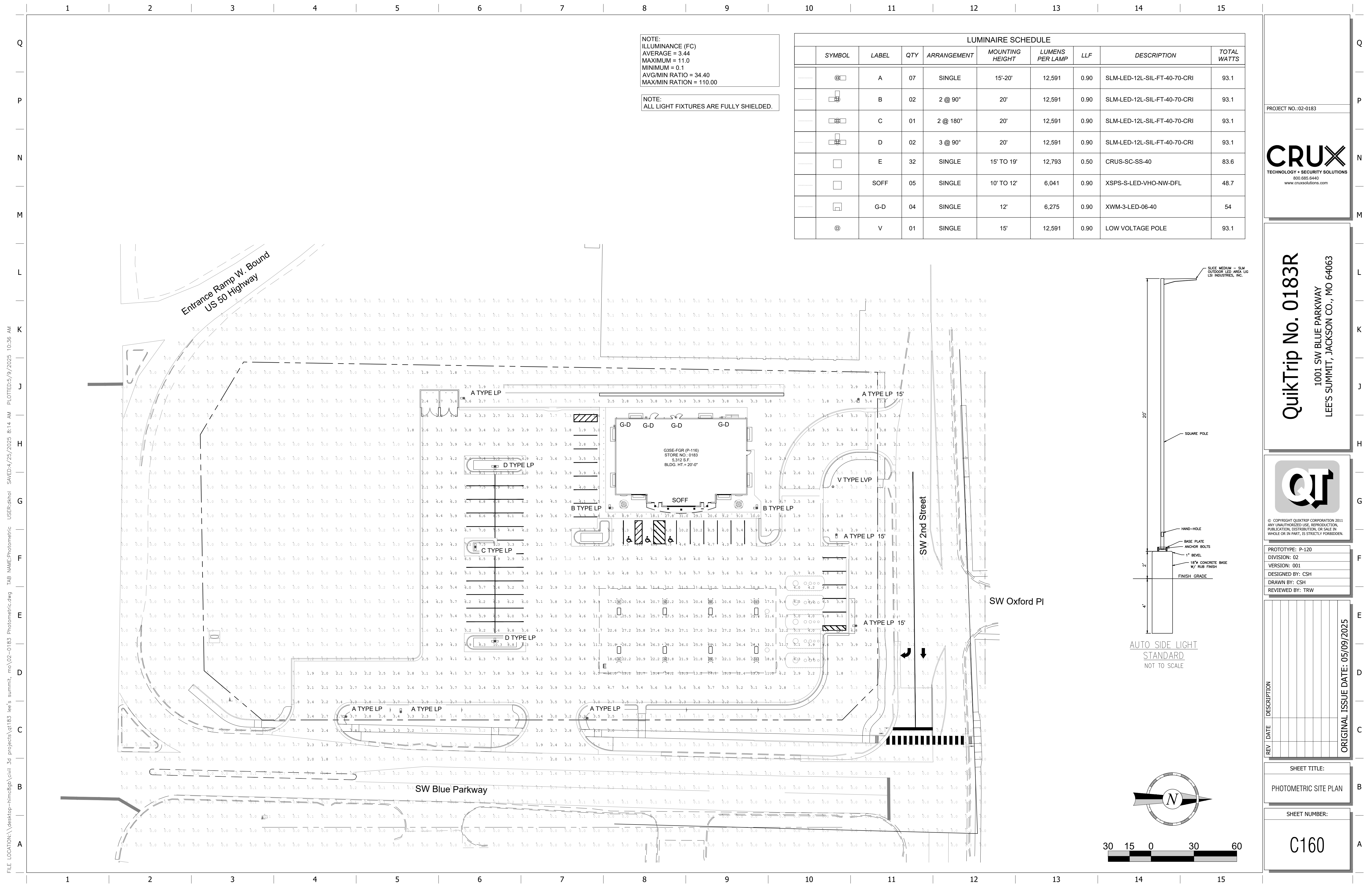
PROTOTYPE: P-120
DIVISION: 02
VERSION: 001
DESIGNED BY: CSH
DRAWN BY: CSH
REVIEWED BY: TRW

REV	DATE	DESCRIPTION

SHEET TITLE:
OVERALL UTILITY PLAN

SHEET NUMBER:
C150

FILE LOCATION: \\desktop-hmc2gpc\civil 3d projects\qt183r lee's summit, mo\02-0183 Civil\Utility USER:cdkhol PLOTTED:5/9/2025 10:35 AM



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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D

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A

UTILITY COMPANY	CONTACT	EMAIL	PHONE NUMBER	ADDRESS
AT&T	CHARLES PEDERSEN	CP861N@ATT.COM	816-813-3667	2121 E 63RD STREET, KANSAS CITY, MO 64130
BLUEBIRD NETWORKS	MIKE SANDERS	MIKE.SANDERS@BLUEBIRDBIRDNETWORK.COM	816-517-1876	9201 WARD PARKWAY, SUITE 300, KANSAS CITY, MO 64114
CITY OF LEE'S SUMMIT	KRISTI GAWRON	KRISTI.GAWRON@CITYOFLS.NET	816-969-1923	1200 SE HAMLEN ROAD, LEE'S SUMMIT, MO 64081
EVERGY	PHILLIP INGRAM	PHILLIP.INGRAM@EVERGY.COM	816-896-3098	1710 PASEO BLVD, KANSAS CITY, MO 64108
MODOT KANSAS CITY DISTRICT	MISSOURI DEPT. OF TRANSPORTATION	KCMICROFILM@MODOT.MO.GOV	816-863-7822	600 NE COLBURN RD, LEE'S SUMMIT, MO 64086
SPECTRUM	CHRISTINA HURKMANS	CHRISTINA.HURKMANS@CCISYSTEMS.COM	800-338-9299	105 KENT STREET, IRON MOUNTAIN, MI 49801
SPIRE MO WEST	LARISSA WELLS	LARISSA.WELLS@SPIREENERGY.COM	816-207-7021	3025 SE CLOVER DR, LEE'S SUMMIT, MO 64082
UNITE PRIVATE NETWORKS	SAM VOHSEN	UPNGIS@UPNFIBER.COM	816-814-9768	120 W 12TH ST, FLOOR 11, KANSAS CITY, MO 64105

LEGEND

OVERHEAD LINES

- OE1 - OVERHEAD ELECTRIC/FIBER OPTIC CABLE TV/TELEPHONE/TELEPHONE - LIBERTY UTILITIES (A.K.A. EVERGY/UNKNOWN/SPECTRUM/AT&T)
- OE2 - OVERHEAD ELECTRIC/FIBER OPTIC CABLE TV/FIBER OPTIC - LIBERTY UTILITIES (A.K.A. EVERGY/UNKNOWN/SPECTRUM/SPECTRUM)
- OE3 - OVERHEAD ELECTRIC - LIBERTY UTILITIES (A.K.A. EVERGY)
- OF0C1 - OVERHEAD FIBER OPTIC - AT&T

QUALITY LEVEL B

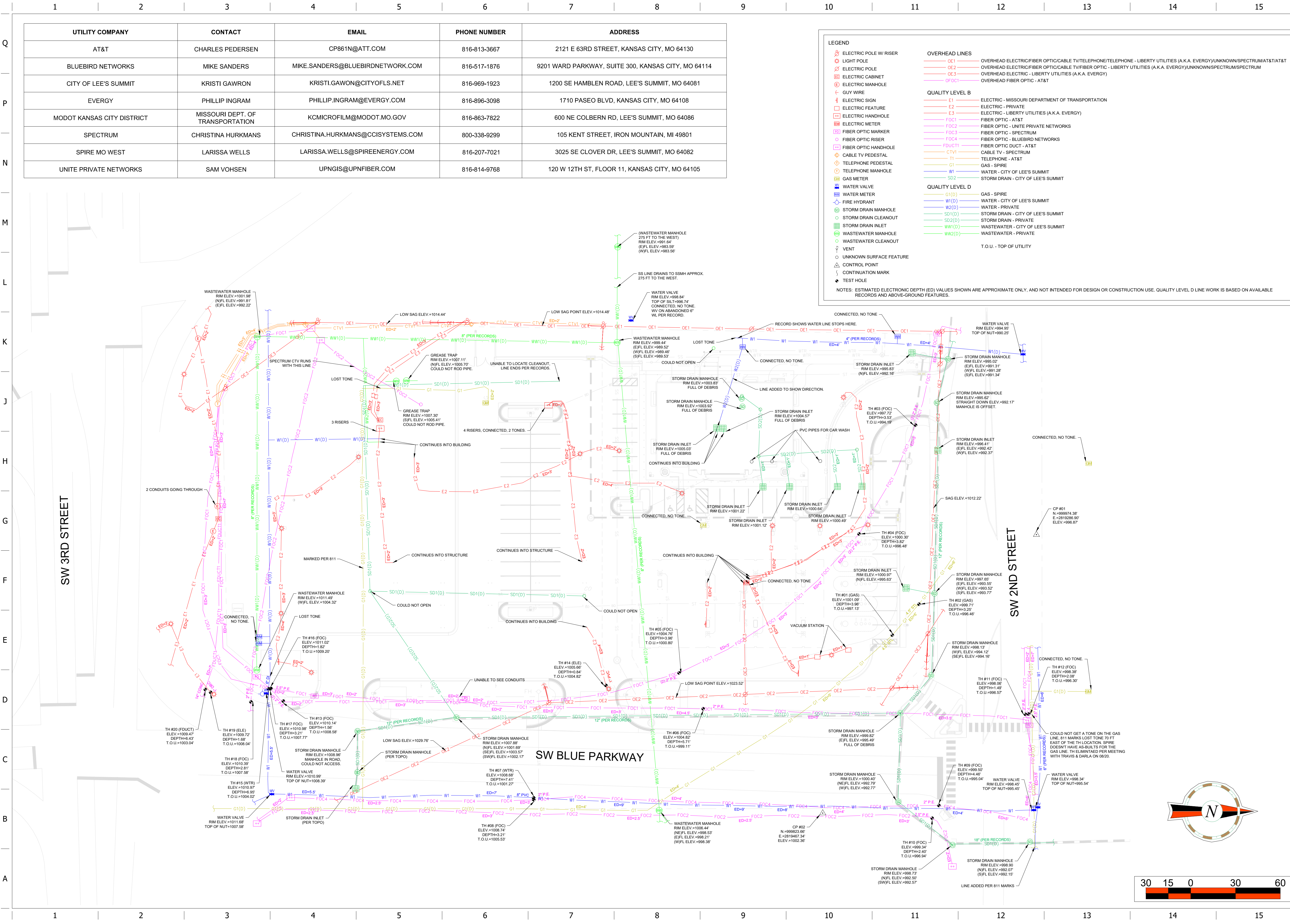
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- E2 - ELECTRIC - PRIVATE
- E3 - ELECTRIC - LIBERTY UTILITIES (A.K.A. EVERGY)
- FOC1 - FIBER OPTIC - AT&T
- FOC2 - FIBER OPTIC - UNITE PRIVATE NETWORKS
- FOC3 - FIBER OPTIC - SPECTRUM
- FOC4 - FIBER OPTIC - BLUEBIRD NETWORKS
- FODUCT1 - FIBER OPTIC DUCT - AT&T
- CTV1 - CABLE TV - SPECTRUM
- T1 - TELEPHONE - AT&T
- G1 - GAS - SPIRE
- W1 - WATER - CITY OF LEE'S SUMMIT
- SD2 - STORM DRAIN - CITY OF LEE'S SUMMIT

QUALITY LEVEL D

- G1(D) - GAS - SPIRE
- W1(D) - WATER - CITY OF LEE'S SUMMIT
- W2(D) - WATER - PRIVATE
- SD1(D) - STORM DRAIN - CITY OF LEE'S SUMMIT
- SD2(D) - STORM DRAIN - PRIVATE
- WH1(D) - WASTEWATER - CITY OF LEE'S SUMMIT
- WH2(D) - WASTEWATER - PRIVATE

T.O.U. - TOP OF UTILITY

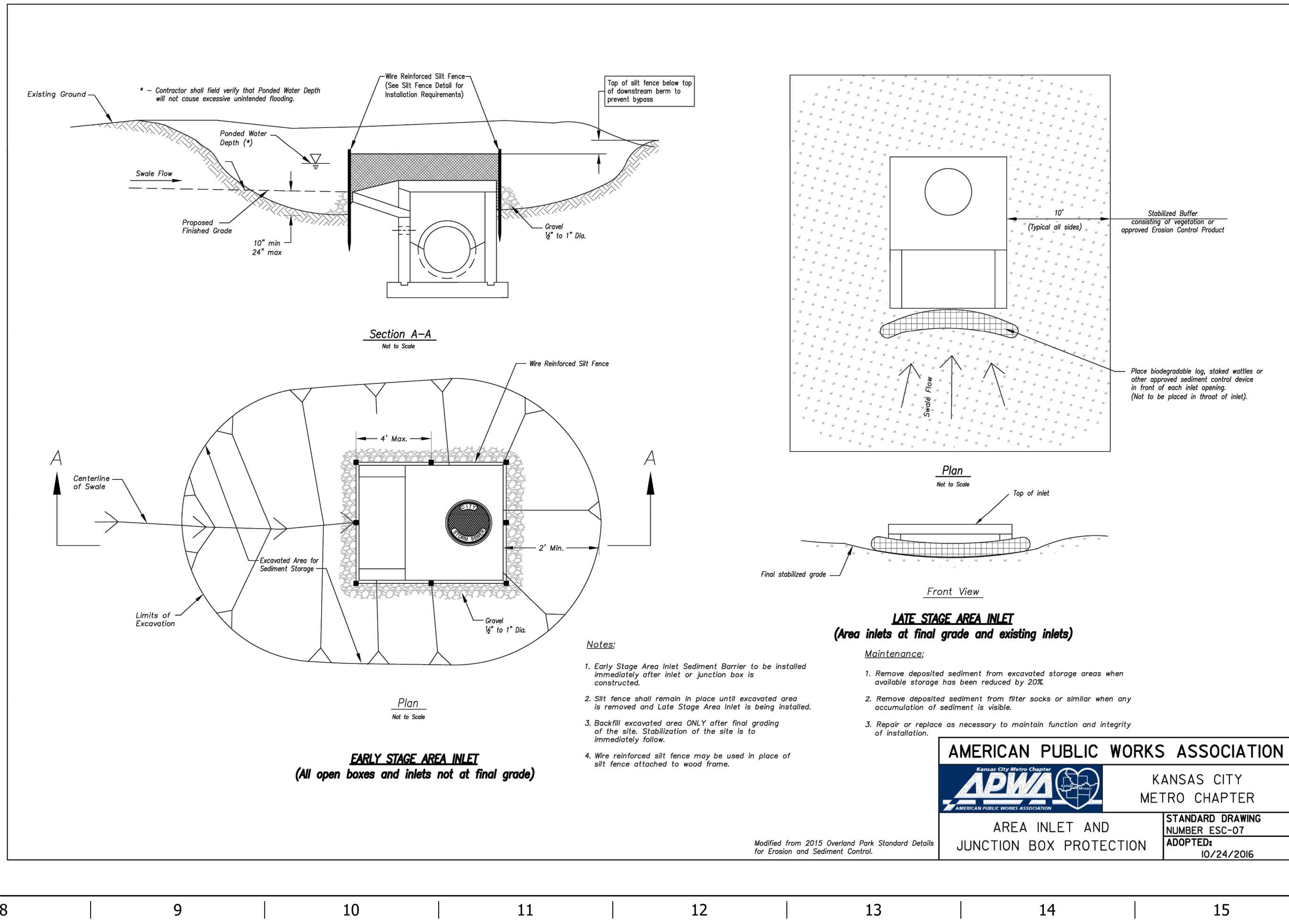
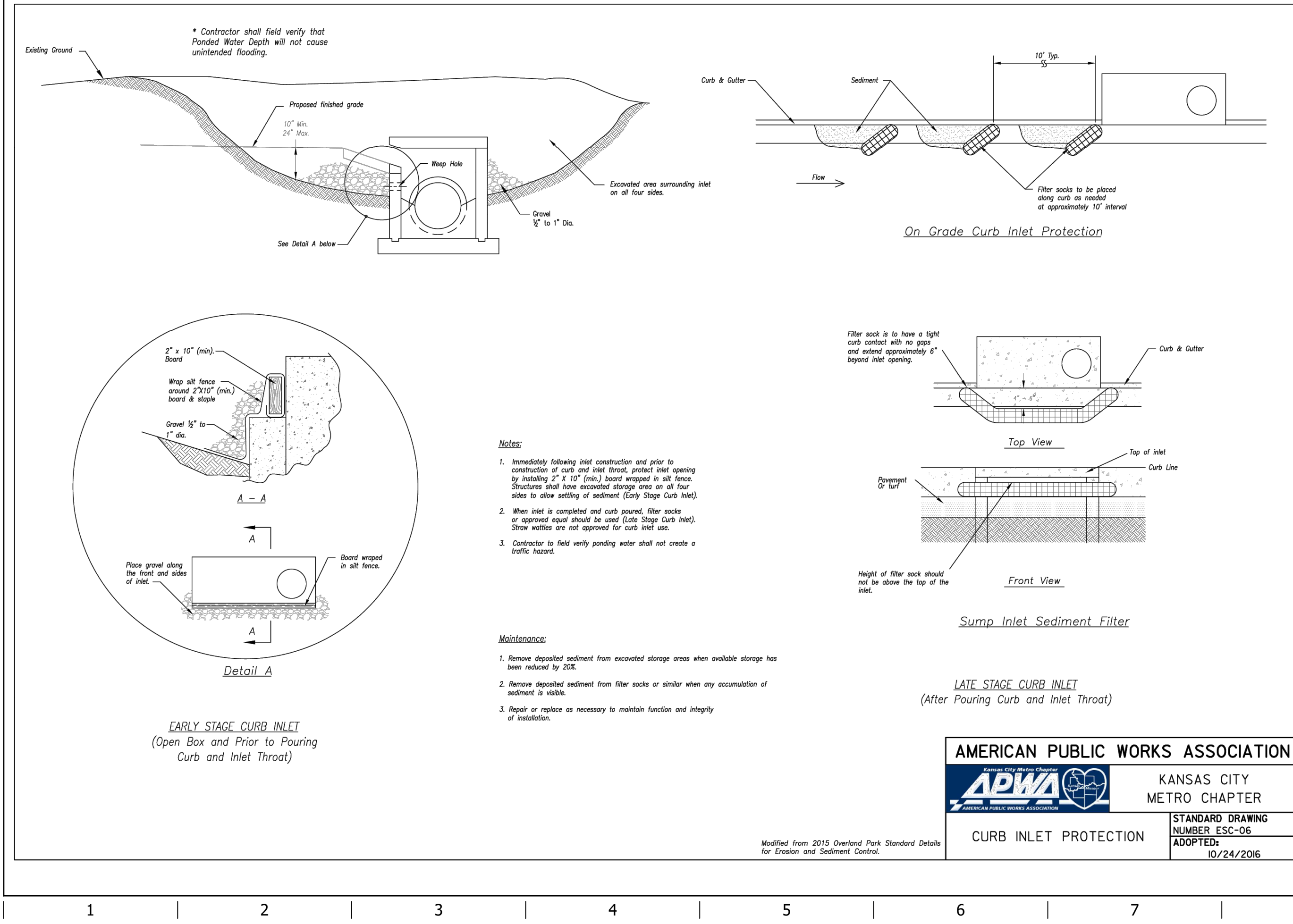
NOTES: ESTIMATED ELECTRONIC DEPTH (ED) VALUES SHOWN ARE APPROXIMATE ONLY, AND NOT INTENDED FOR DESIGN OR CONSTRUCTION USE. QUALITY LEVEL D LINE WORK IS BASED ON AVAILABLE RECORDS AND ABOVE-GROUND FEATURES.

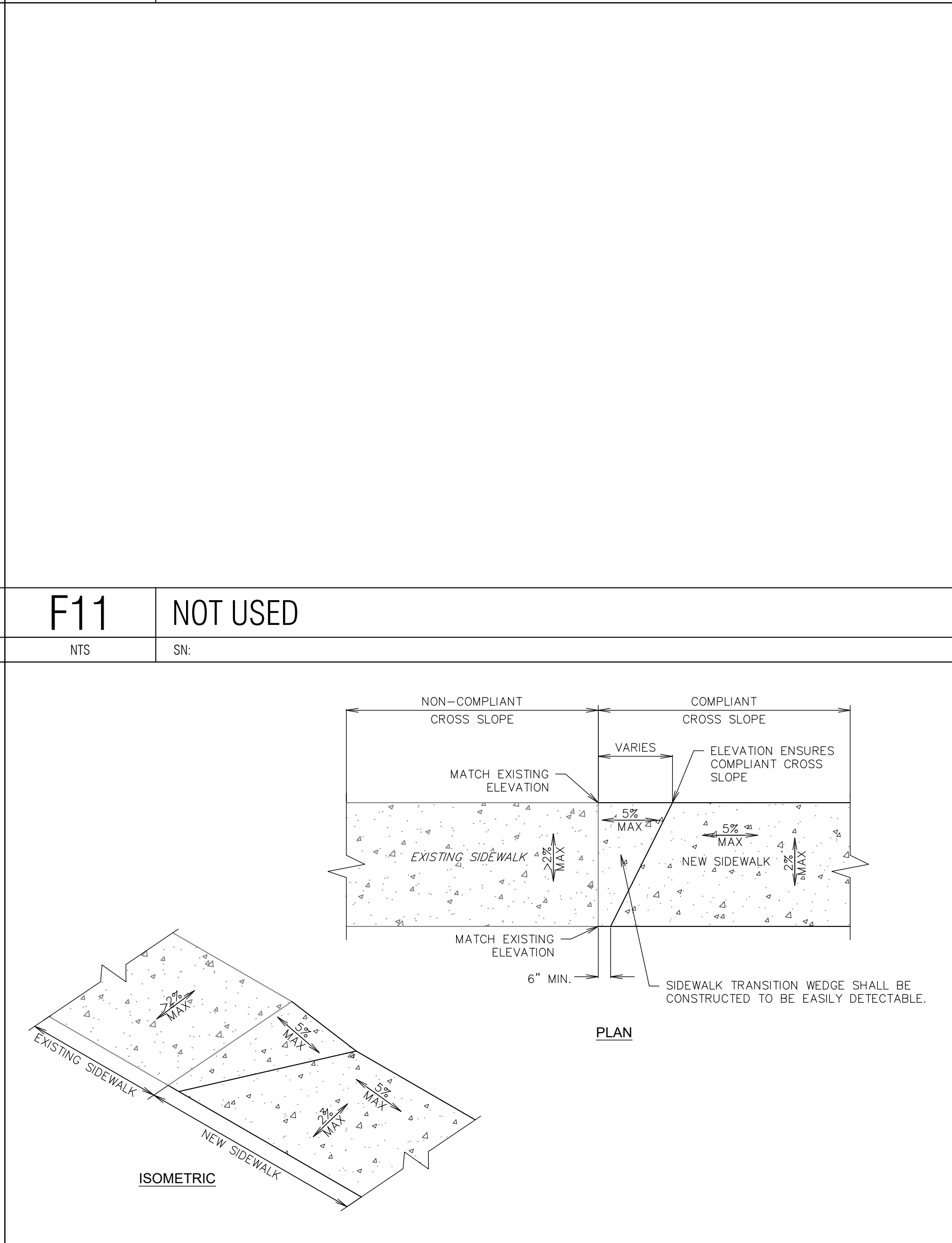
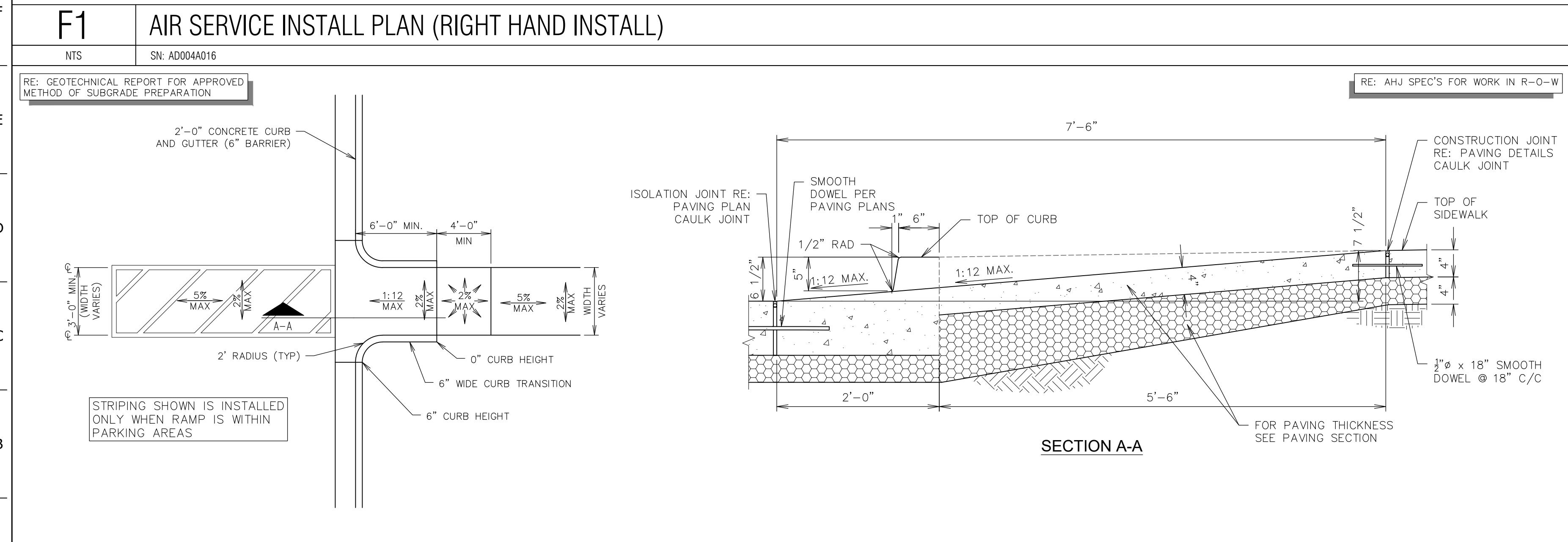
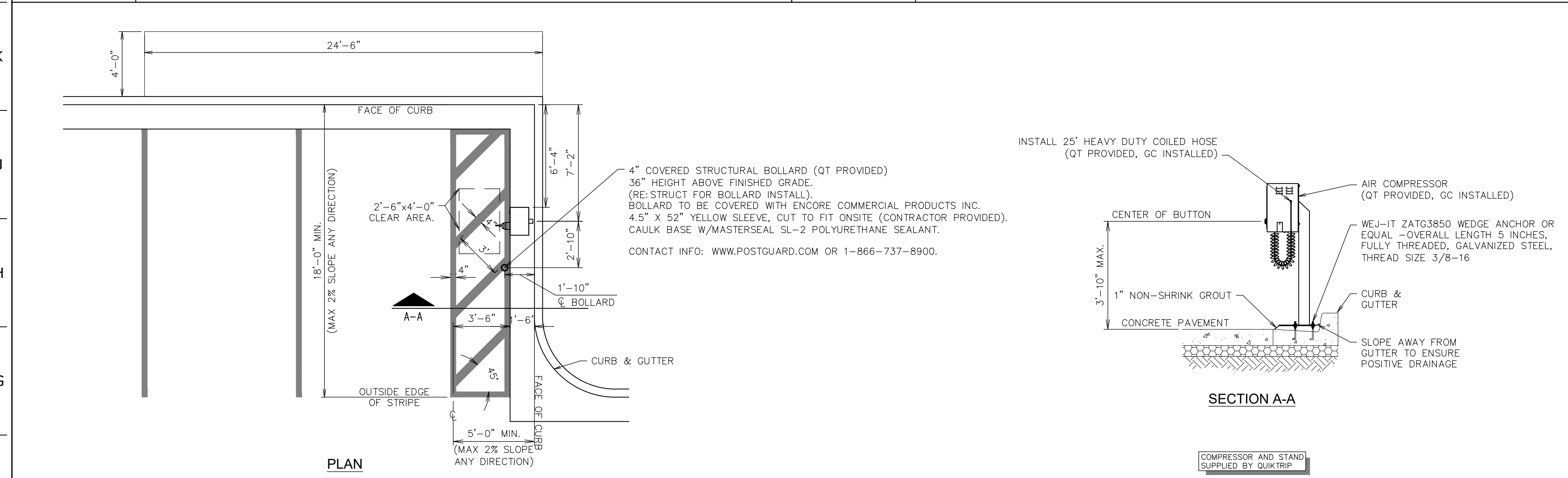
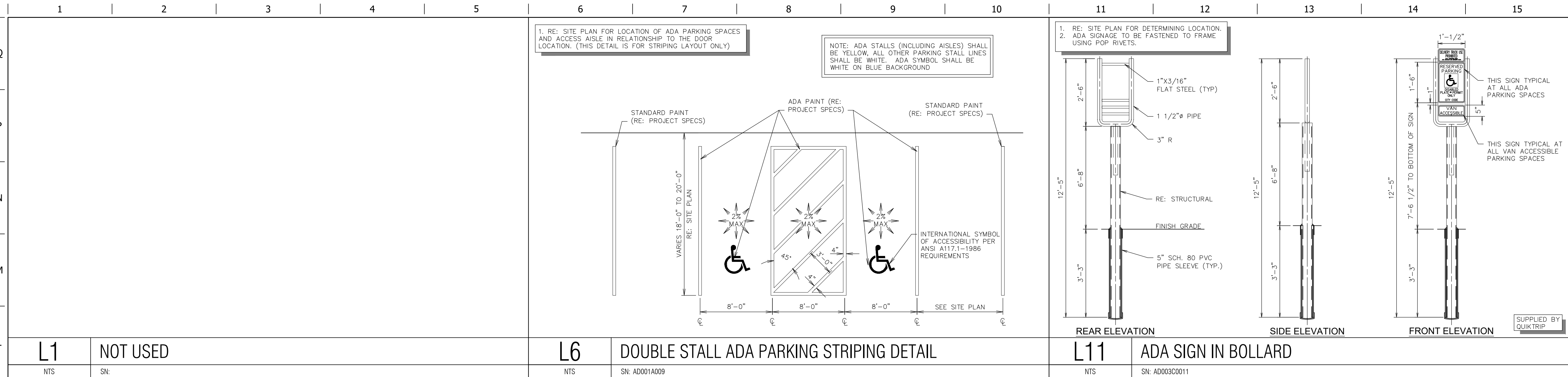


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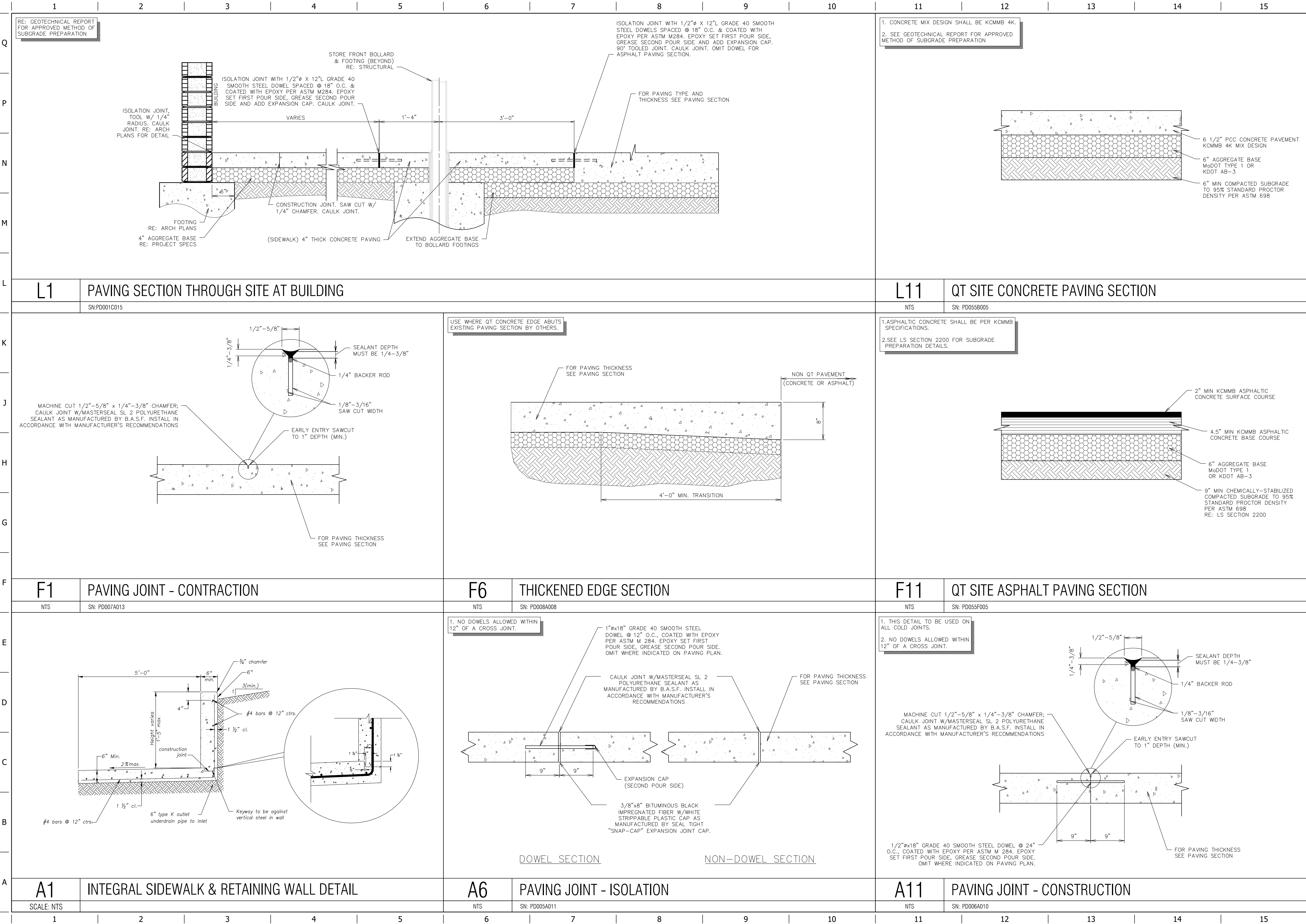
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1. 4" THICK X 4000 P.S.I. CONCRETE LADDER PAD W/6"x6" 10 GA. W.W.F. PLACED LEVEL, MID-DEPTH (TYPICAL) 2. 4" THICK X 4000 P.S.I. CONCRETE SIGN PAD W/6"x6" 10 GA. W.W.F. PLACED LEVEL, MID-DEPTH (TYPICAL) 3. CAULK CONSTRUCTION JOINT BETWEEN SIGN AND LADDER PADS. 4. FOR QT SIGN PAD PLACEMENT, RE: SITE PLAN FOR SITE SPECIFIC SIGNAGE. 3'-0" TYP 1'-0" SIGN PAD (RE: NOTE 2) LADDER PAD (TYP. EACH SIDE) (RE: NOTE 1) PRICER SIGN PAD EXTENDS 2" MIN. BEYOND SIGN ON SIDES, 12" ON ENDS QT LOGO 15'-3" (TYP) QT HORIZONTAL SIGN 3'-0" TYP SIGN PAD (RE: NOTE 2) LADDER PAD (RE: NOTE 1) SIGN PAD EXTENDS 2" MIN. BEYOND SIGN ON SIDES, 12" ON ENDS 1'-0" VARIES (7'-6" MIN) LADDER PAD (RE: NOTE 1) QT VERTICAL SIGN SIGN PAD (RE: NOTE 2) SIGN PAD EXTENDS 12" MIN. BEYOND SIGN (TYPICAL ALL SIDES) QT VERTICAL SIGN W/ ELECTRIC PRICER (LADDER PADS OMITTED) 3'-0" TYP SIGN PAD (RE: NOTE 2) SIGN PAD EXTENDS 2" MIN. BEYOND SIGN ON SIDES, 8" ON ENDS VARIES (6'-10" MIN) LADDER PAD (RE: NOTE 1) QT POLE SIGN SEE OPTIONS 1. LANDSCAPE 2. SIDEWALK 3. PAVEMENT CONCRETE COLLAR PVC PIPE CLEANOUT RISER 45° BEND WYE FLOW DIRECTION SEE STANDARD TRENCHING DETAIL FEMALE FITTING FLUSH BRONZE PLUG AND FITTING PROVIDED BY CONTRACTOR PIPE (RE: PLANS FOR SIZE) CLEANOUT AT LANDSCAPE JOSAM KLEENATRON 5500X-1-VP ("X"=SIZE) FEMALE FITTING PIPE (RE: PLANS FOR SIZE) CLEANOUT AT SIDEWALK JOSAM KLEENATRON 5500X-1-SD-VP ("X"=SIZE) FEMALE FITTING PIPE (RE: PLANS FOR SIZE) CLEANOUT IN PAVEMENT															L1 GEN III SIGN PAD DETAIL NTS SN: SD015A005															L11 CLEANOUT SECTION DETAIL NTS SN: SD016B007																																																											
F1 NOT USED NTS SN:															F6 NOT USED NTS SN:																																																																										
TABLES ARE QT SUPPLIED, GC INSTALLED 6' (TYP) 40'-2" CENTER OF BUILDING 7'-3" (TYP) ACCESSIBLE TABLE (RE: PROJECT SPECS) DINING TABLE (RE: PROJECT SPECS)															1. SEE PAVING DETAILS & FUEL INSTALLATION PLANS FOR SPECIFIC ITEMS NOT RELATED TO THE SLURRY CAP INSTALLATION. 2. SEE GEOTECHNICAL REPORT FOR APPROVED METHOD OF SUBGRADE PREPARATION 1'-0" UST SLURRY CAP NATIVE MATERIAL BACKFILL VARIES C & G TANK EXCAVATION LIMITS SECTION A-A SLURRY CAP TO EXTEND 1' PAST TANK EXCAVATION COMPACTED SUBGRADE 2% SLOPE 4" SLURRY CAP (1,500 PSI) 4" AGG. BASE NATIVE MATERIAL BACKFILL NON-WOVEN GEOTECH FABRIC CURB & GUTTER CONC. PAVEMENT TENSAR BX TYPE 2 OR APPROVED EQUAL FOR PAVING THICKNESS SEE PAVING SECTION 12" UST <tr><td colspan="15"> A1 OUTSIDE TABLE PLACEMENT NTS SN: SD024A003 </td><td colspan="15"> A11 UNDERGROUND STORAGE TANK (UST) SLURRY CAP DETAIL NTS SN: SD020A008 </td></tr> <tr><td colspan="2">1</td><td colspan="2">2</td><td colspan="2">3</td><td colspan="2">4</td><td colspan="2">5</td><td colspan="2">6</td><td colspan="2">7</td><td colspan="2">8</td><td colspan="2">9</td><td colspan="2">10</td><td colspan="2">11</td><td colspan="2">12</td><td colspan="2">13</td><td colspan="2">14</td><td colspan="2">15</td></tr>															A1 OUTSIDE TABLE PLACEMENT NTS SN: SD024A003															A11 UNDERGROUND STORAGE TANK (UST) SLURRY CAP DETAIL NTS SN: SD020A008															1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	
A1 OUTSIDE TABLE PLACEMENT NTS SN: SD024A003															A11 UNDERGROUND STORAGE TANK (UST) SLURRY CAP DETAIL NTS SN: SD020A008																																																																										
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15																																																													

ORIGINAL ISSUE DATE: 05/09/2025



[illegible]

FILE LOCATION: \\desktop-him8gp\civil 3d projects-him8gp\civil 3d projects-q183\res's summit.mxd 02-0183 DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 1 USER:cdm101 SAVED:5/6/2025 3:42 PM PLOTTED:5/9/2025 10:36 AM



QUIKTRIP
STANDARD
DETAILS

PROJECT NO.: 02-0183

MDG
Midwest Design Group
Kansas City

PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063



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DIVISION: 02
VERSION: 001
DESIGNED BY: CSH
DRAWN BY: CSH
REVIEWED BY: TRW

REV	DATE	DESCRIPTION

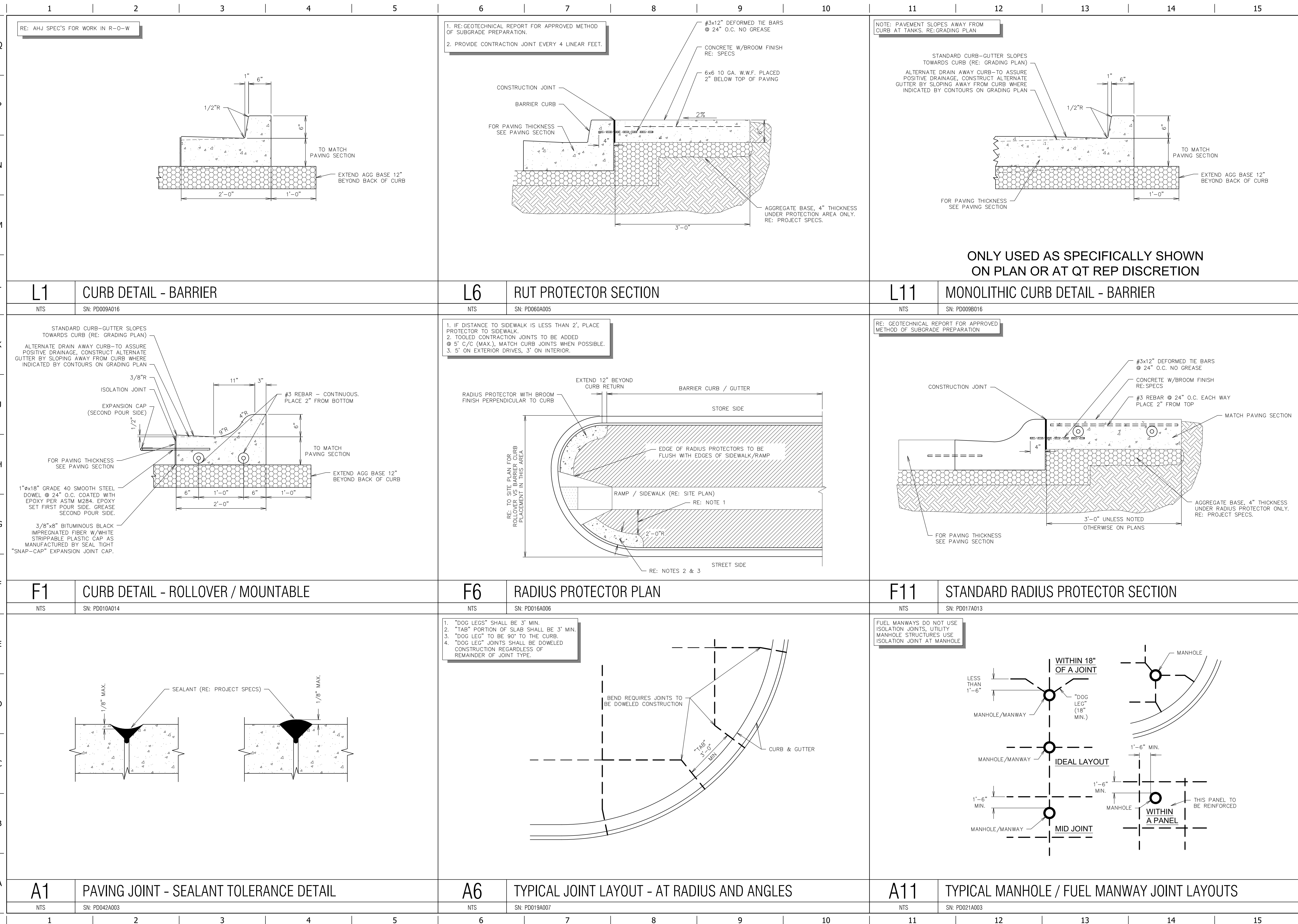
ORIGINAL ISSUE DATE: 05/09/2025

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PAVING DETAILS

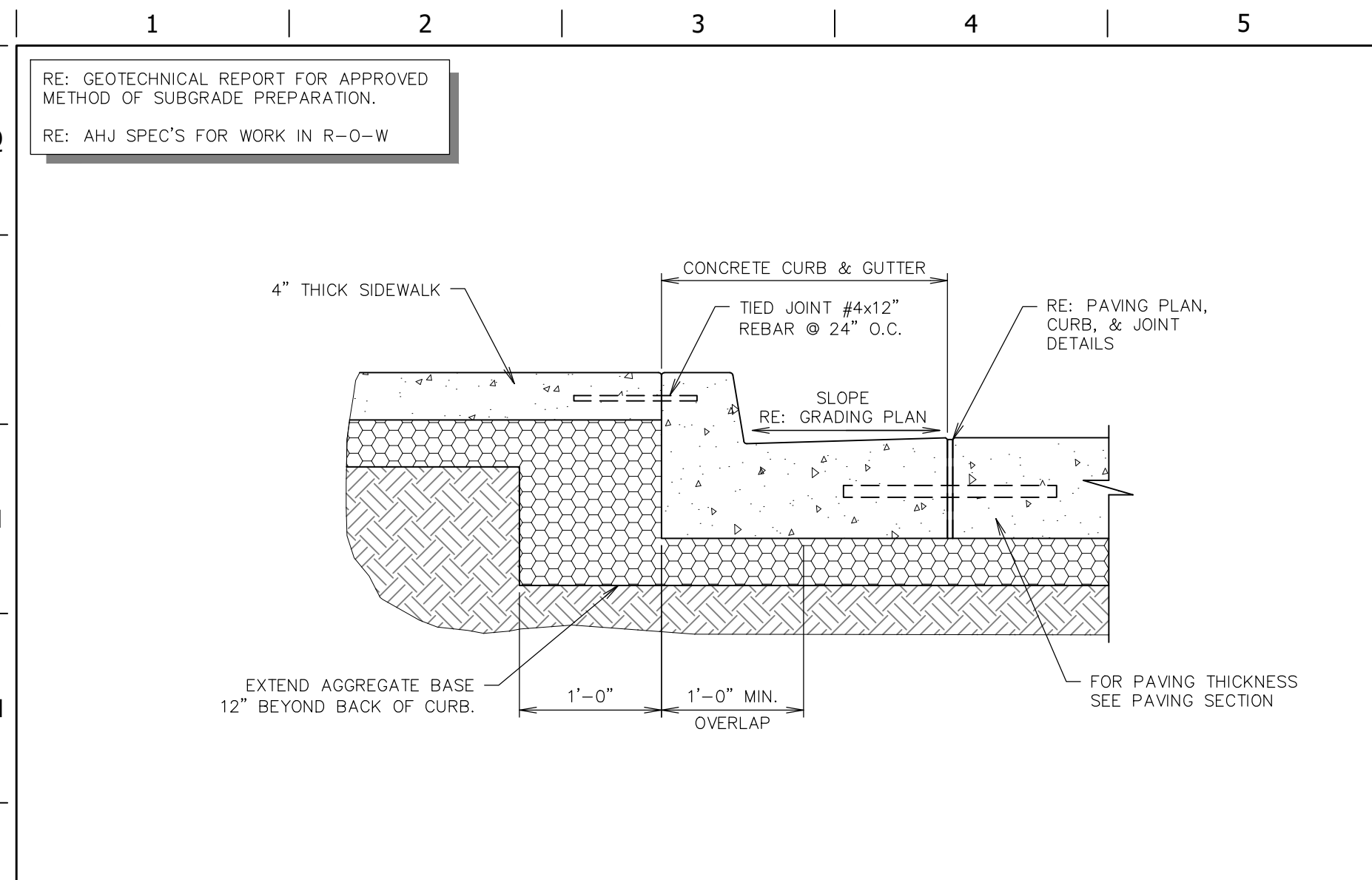
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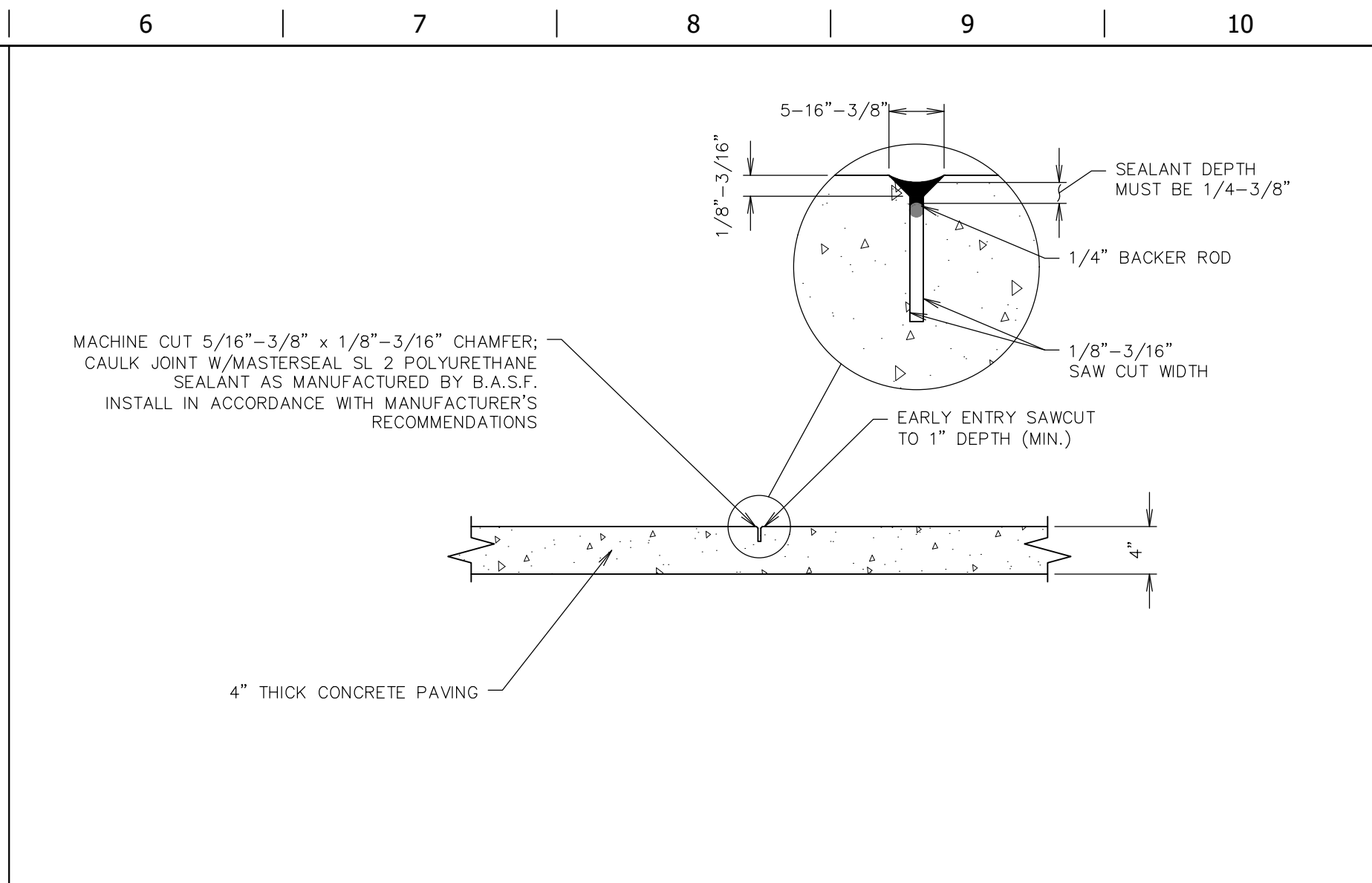


QUIKTRIP STANDARD DETAILS			
PROJECT NO.: 02-0183			
 Midwest Design Group Kansas City PO Box 860015 Shawnee, KS 66286-0015 P 913.248.9385			
QuikTrip No. 0183R 1001 SW BLUE PARKWAY LEE'S SUMMIT, JACKSON CO., MO 64063			
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VERSION: 001			
DESIGNED BY: CSH			
DRAWN BY: CSH			
REVIEWED BY: TRW			
REV	DATE	DESCRIPTION	ORIGINAL ISSUE DATE: 05/09/2025
SHEET TITLE:			
PAVING DETAILS			
SHEET NUMBER:			
C521			

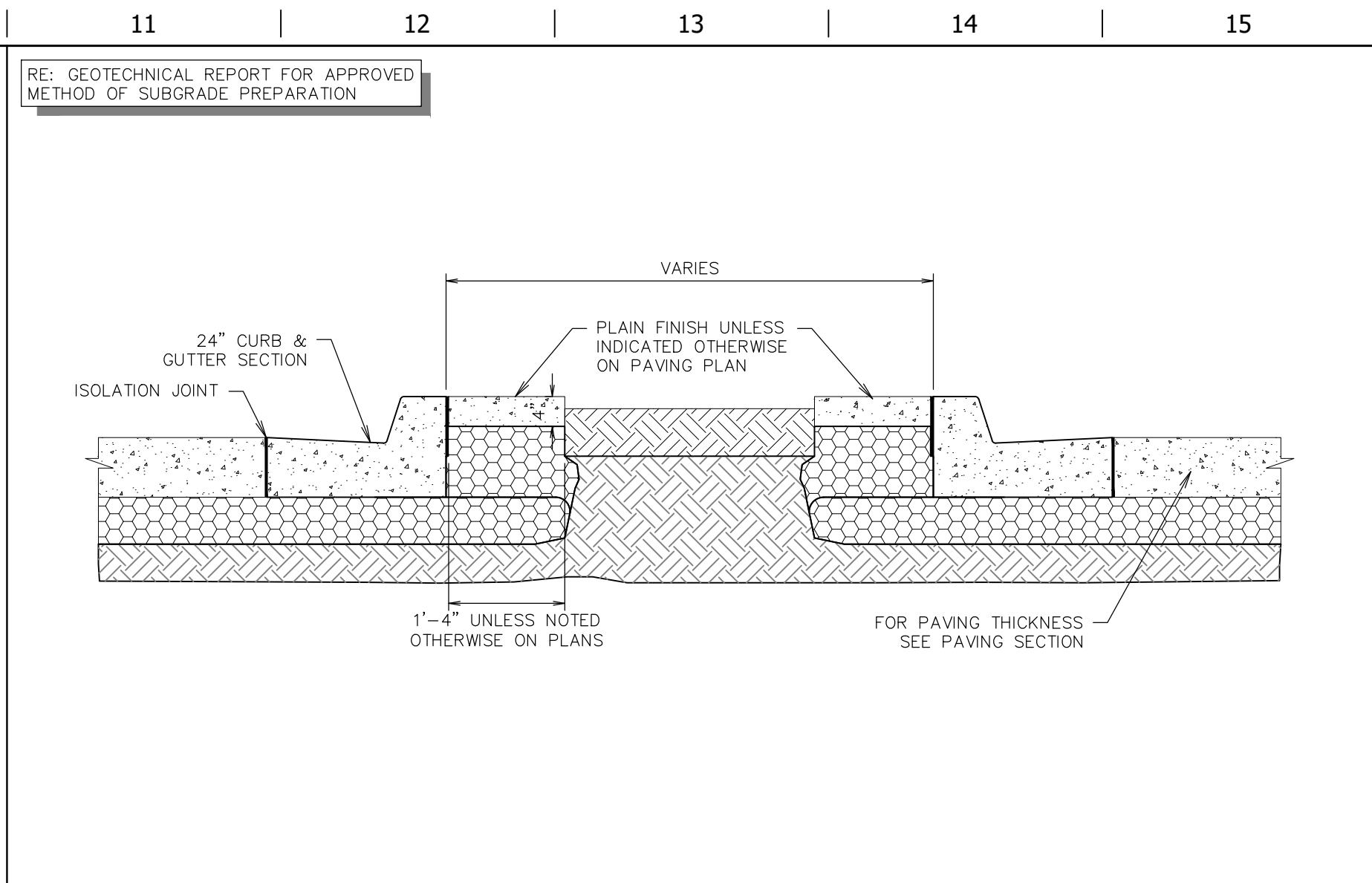
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L1	SIDEWALK SECTION ABUTTING CURB & GUTTER
NTS	SN: PD002E010

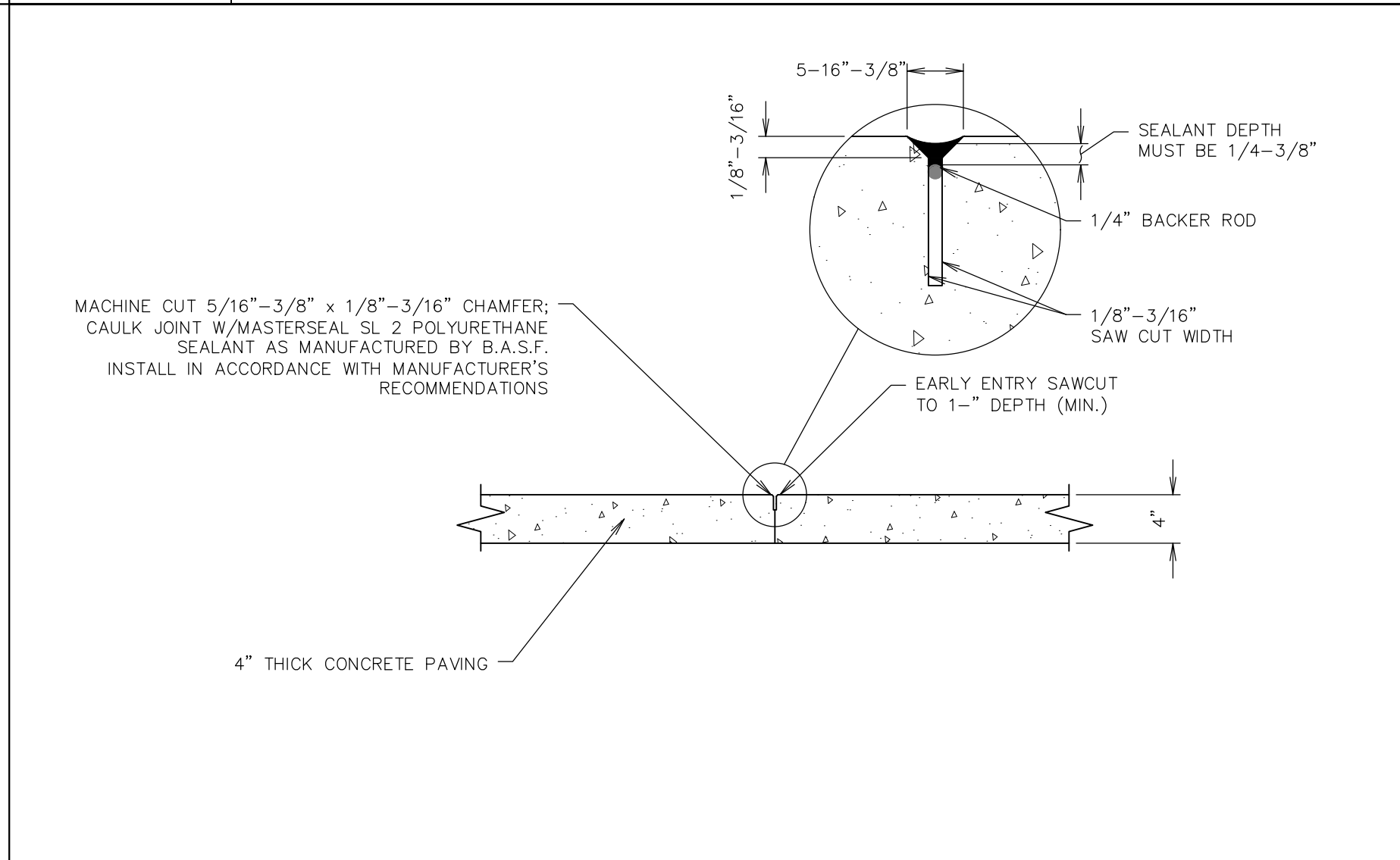


L6	BUILDING SIDEWALK JOINT - CONTRACTION
NTS	SN: PD061A004

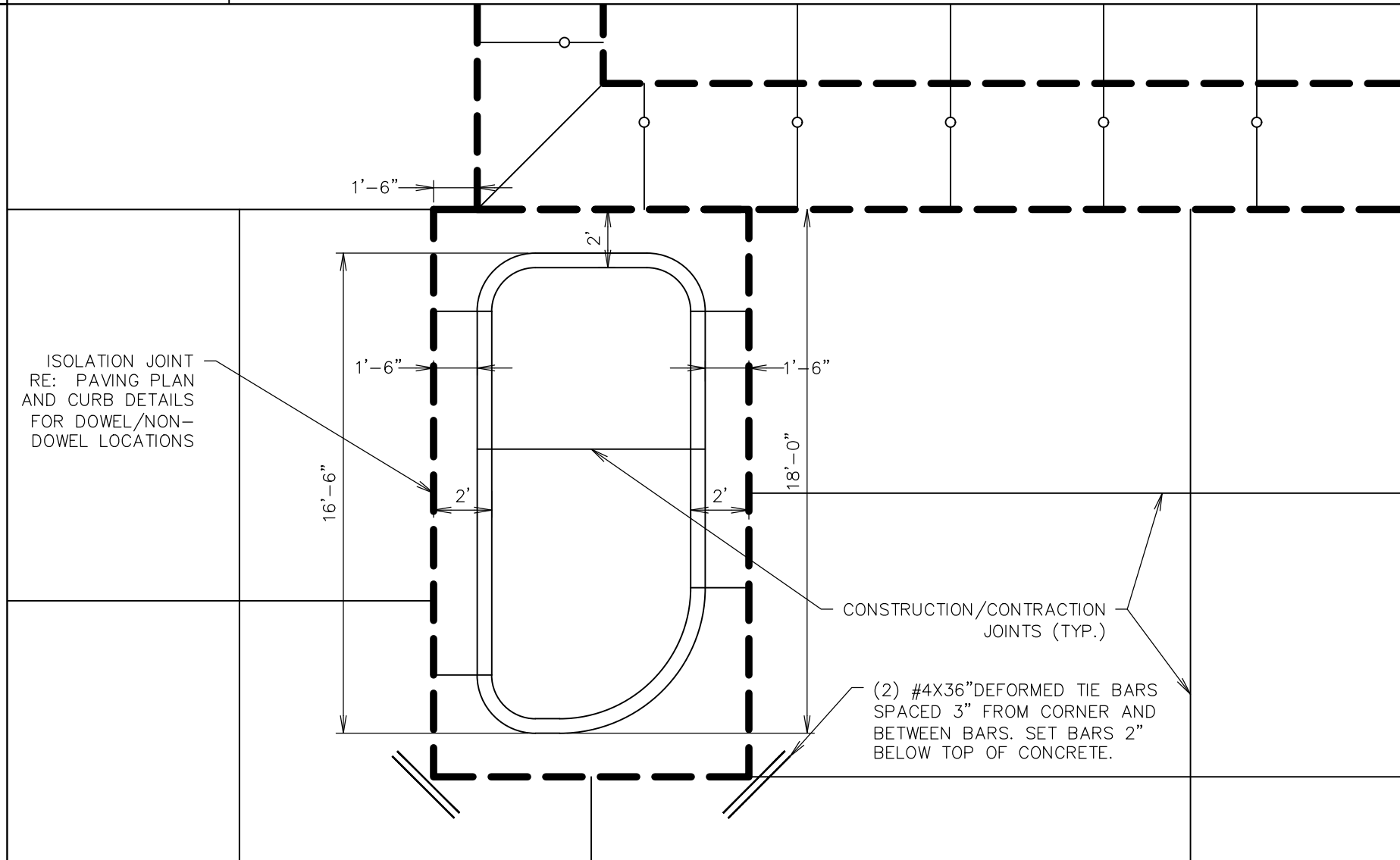


L11	ISLAND SECTION A-A-LANDSCAPED ISLAND
NTS	SN: PD024B009

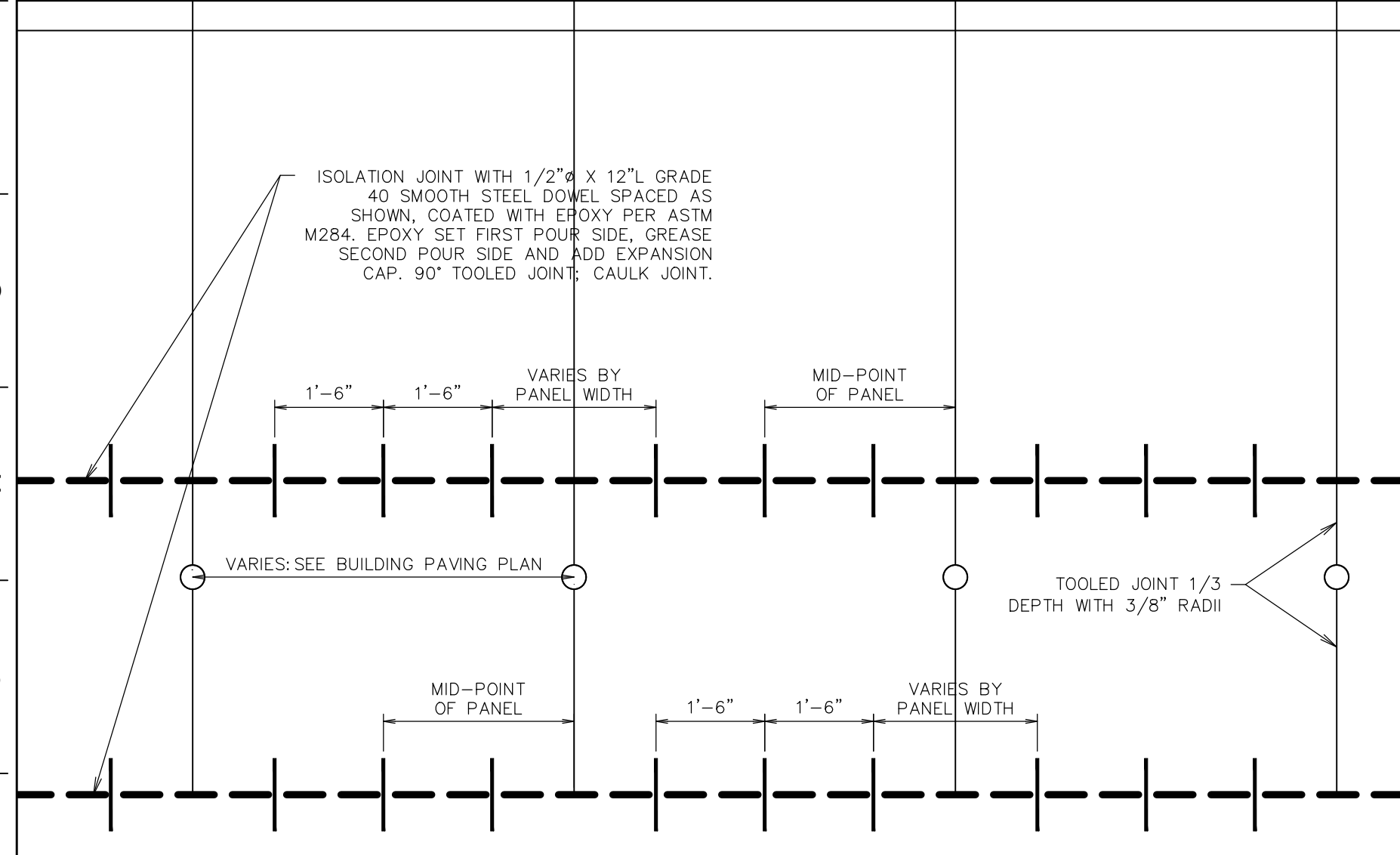
F1	NOT USED
NTS	SN:



F6	BUILDING SIDEWALK JOINT - CONSTRUCTION
NTS	SN: PD061B004



F11	TYPE A ISLAND JOINT DETAIL
NTS	SN: PD035A014



A1	DOWELED EXPANSION JOINTS AT BOLLARD PAVEMENT SECTION
NTS	SN: PD036A004

A6	NOT USED
NTS	SN:

A11	NOT USED
NTS	SN:

QUIKTRIP STANDARD DETAILS

PROJECT NO.:02-0183

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PO Box 860015
Shawnee, KS 66286-0015
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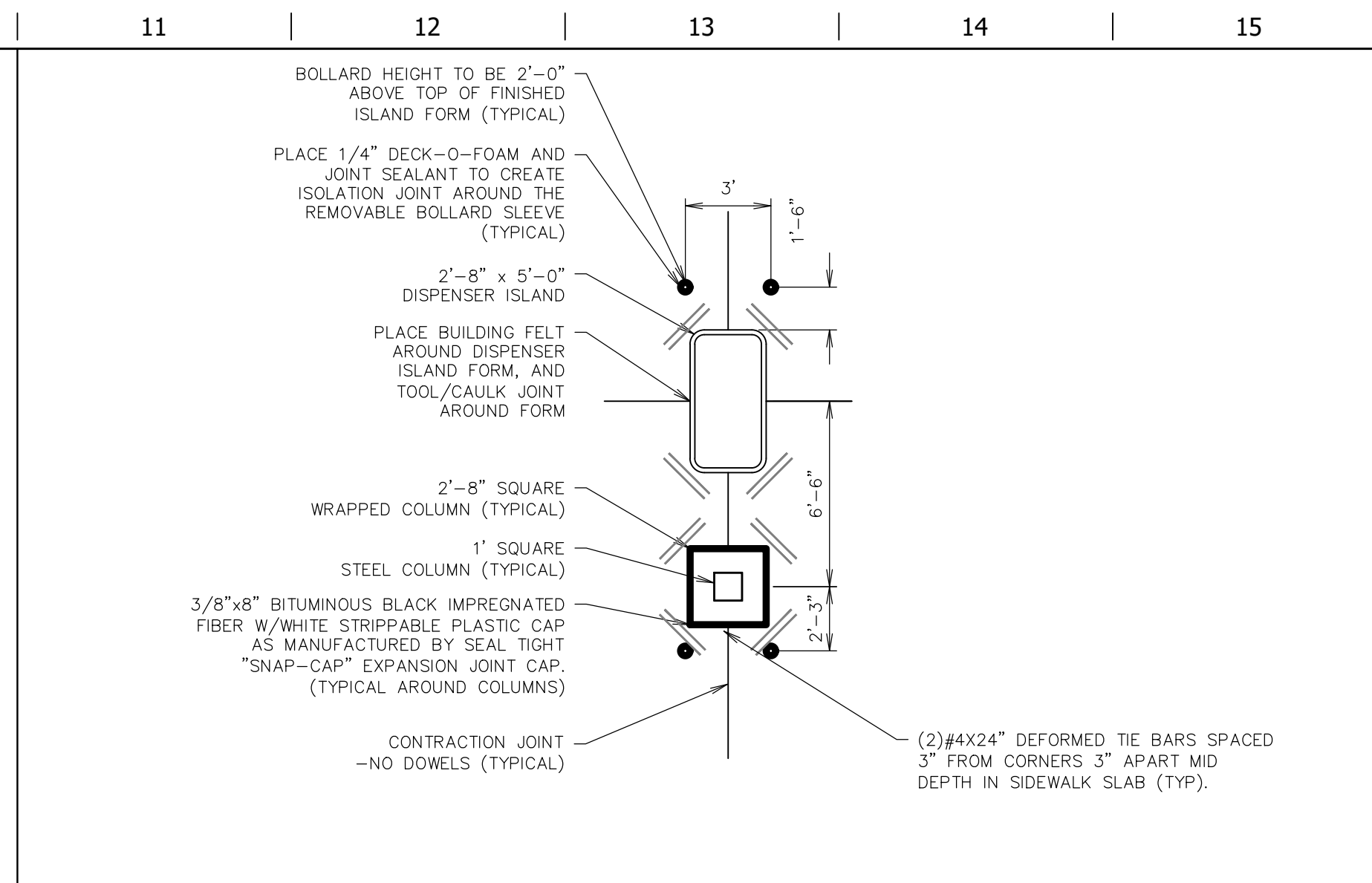
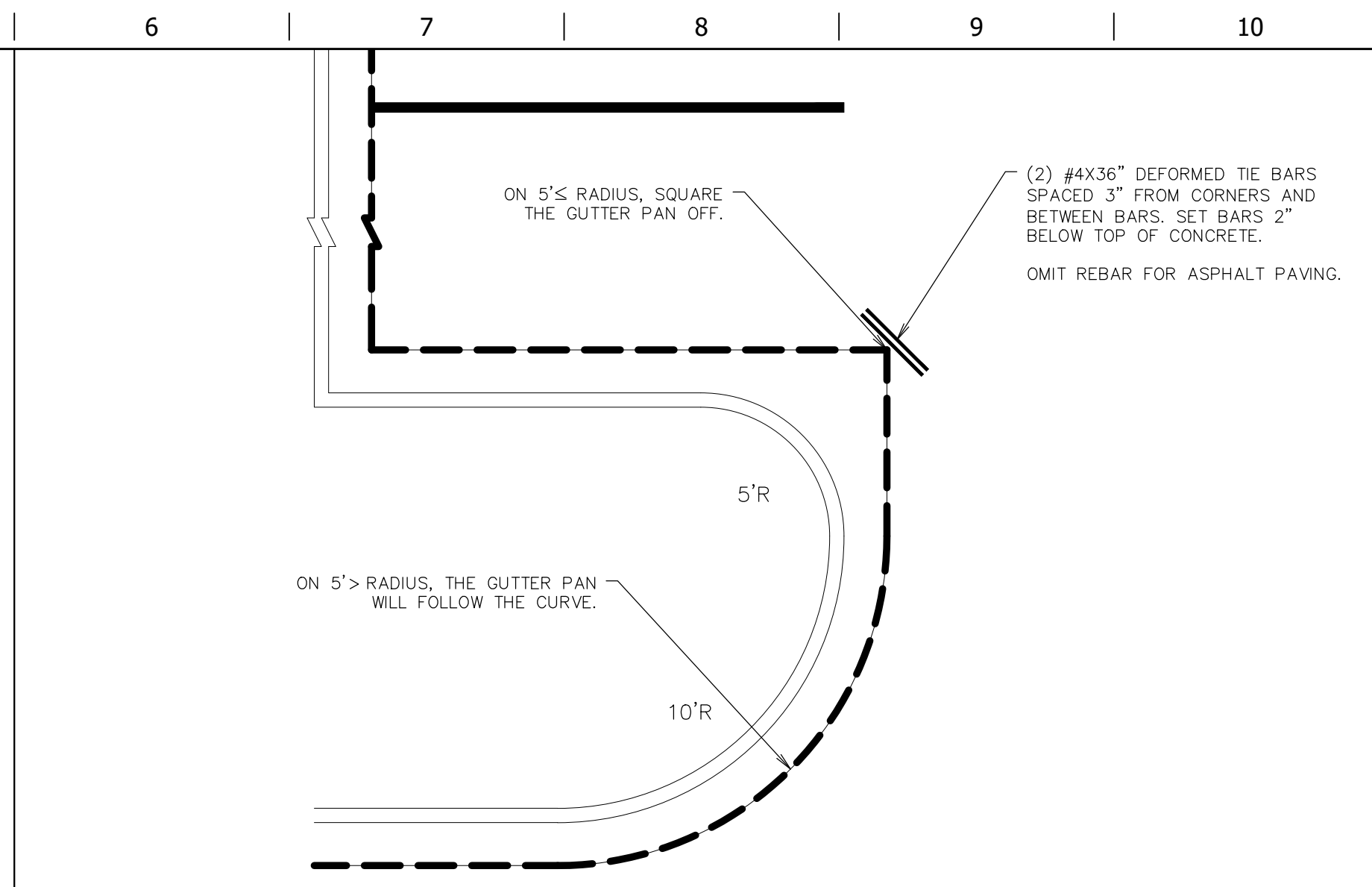
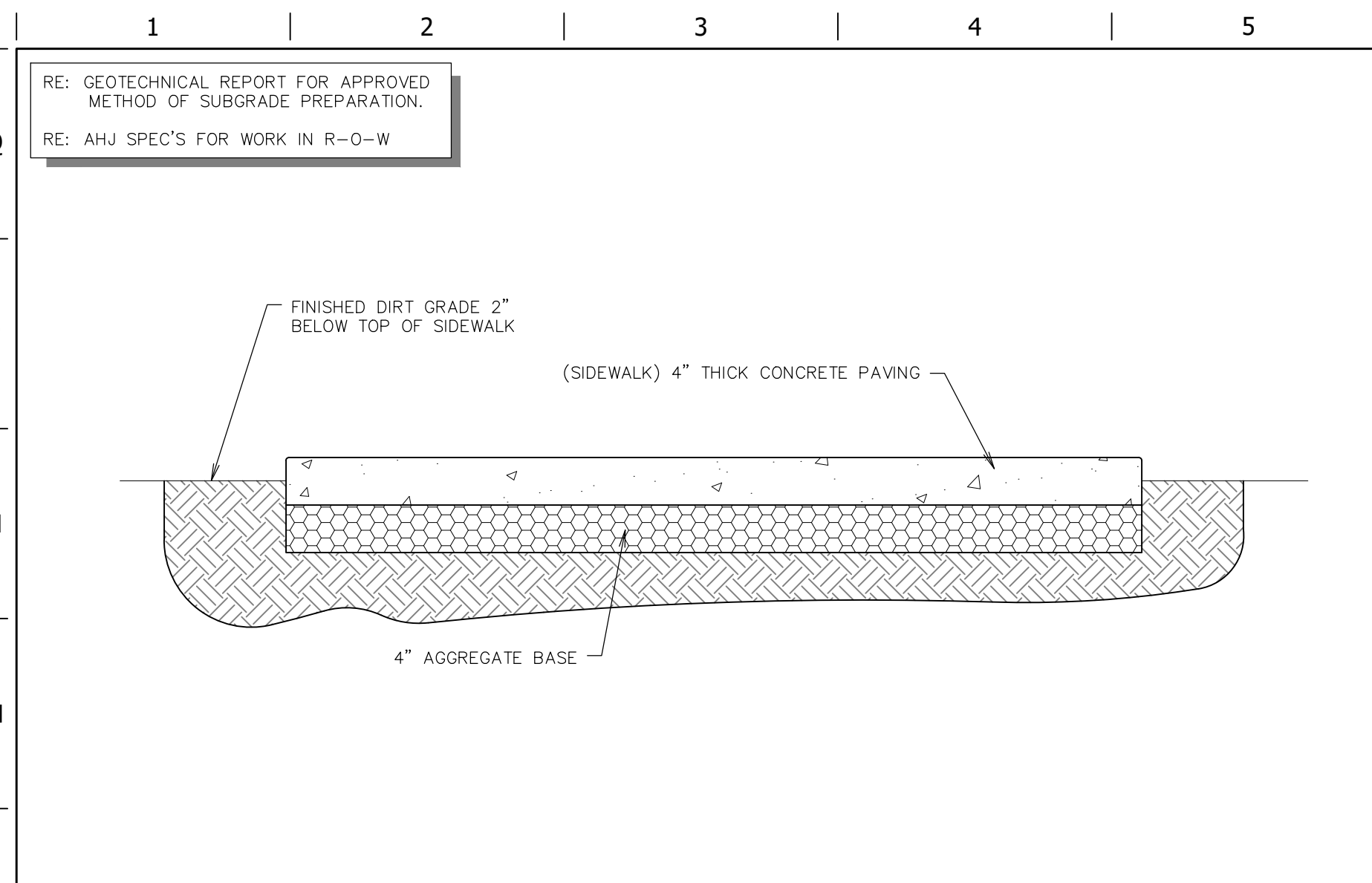
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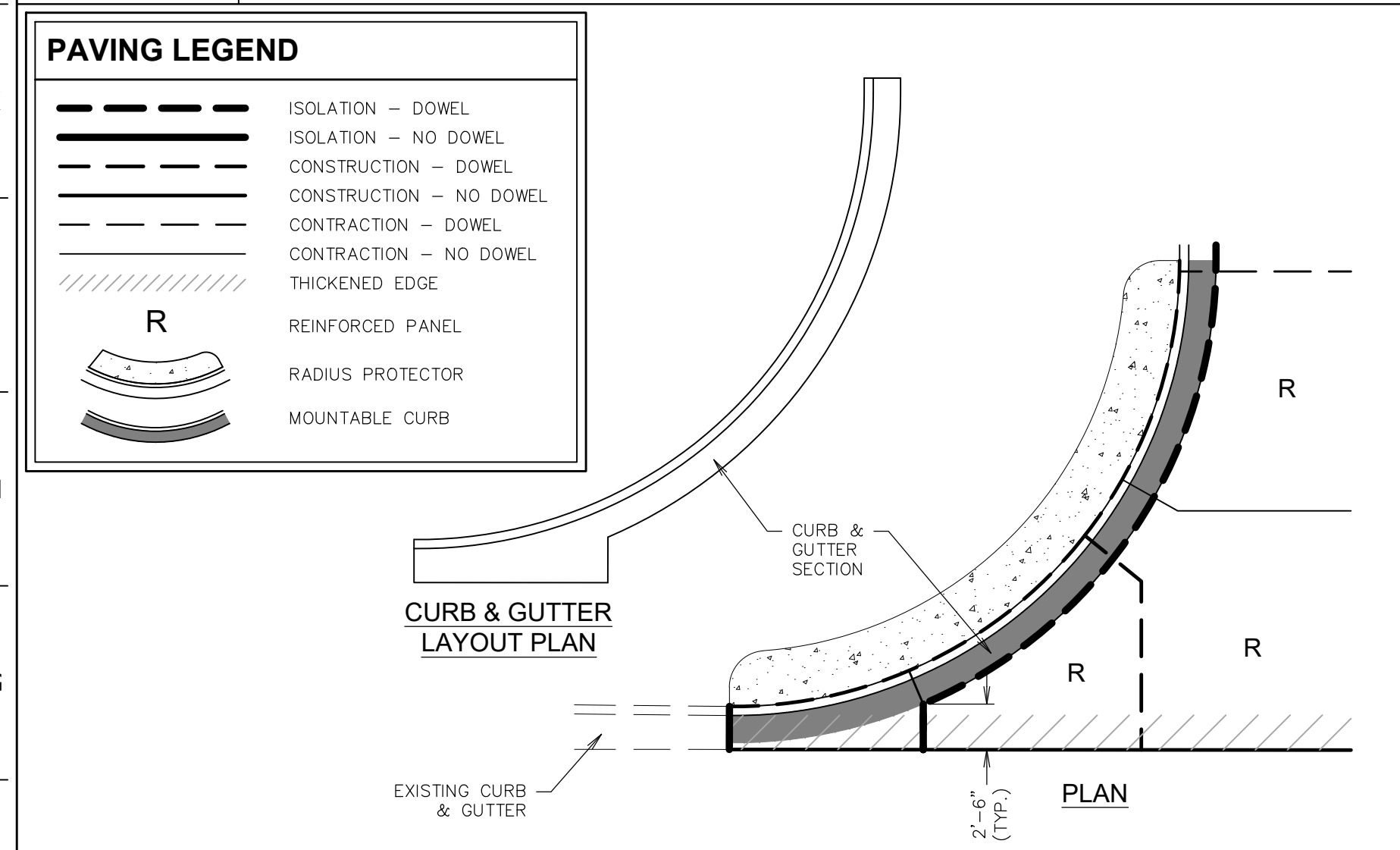
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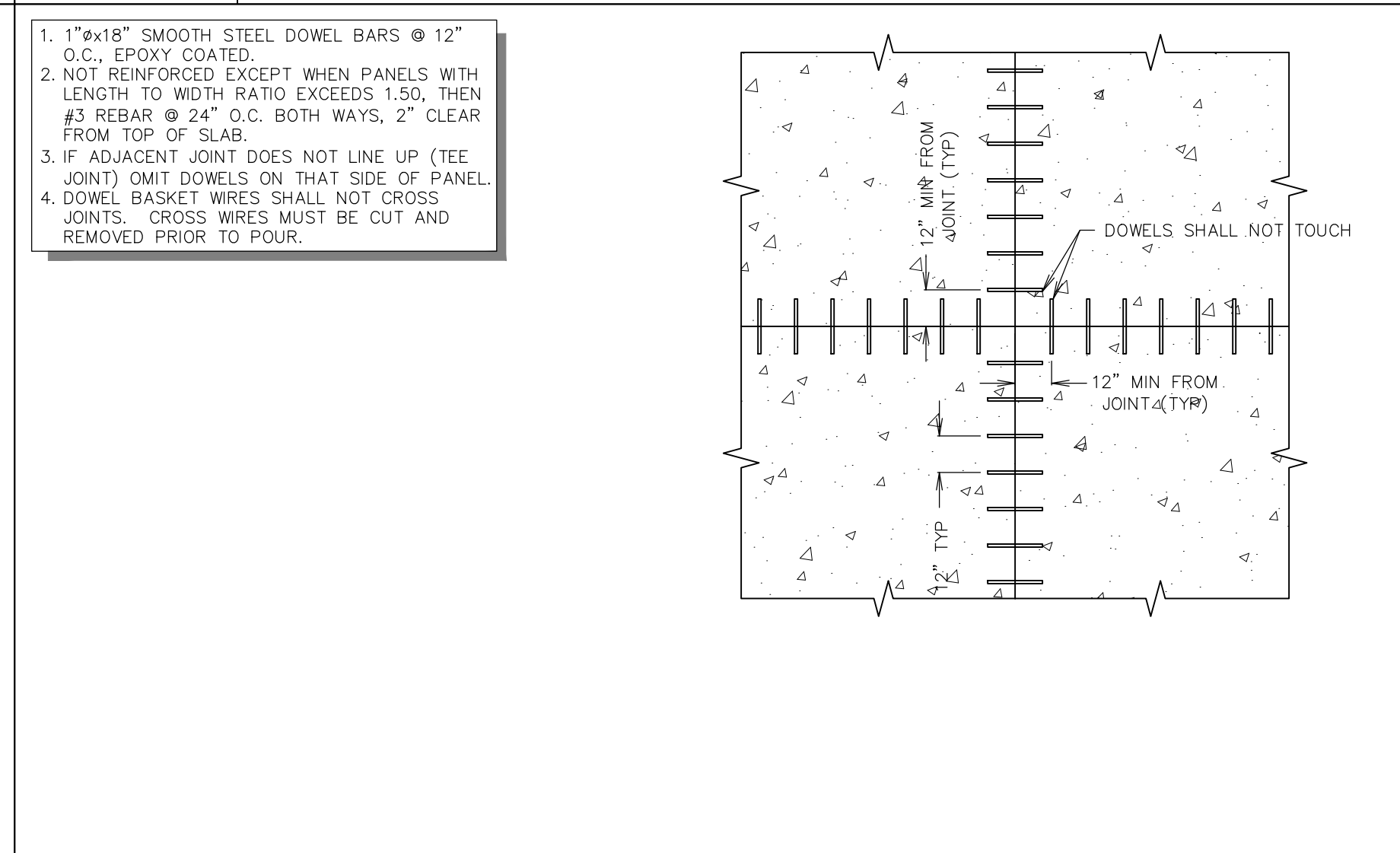
C522



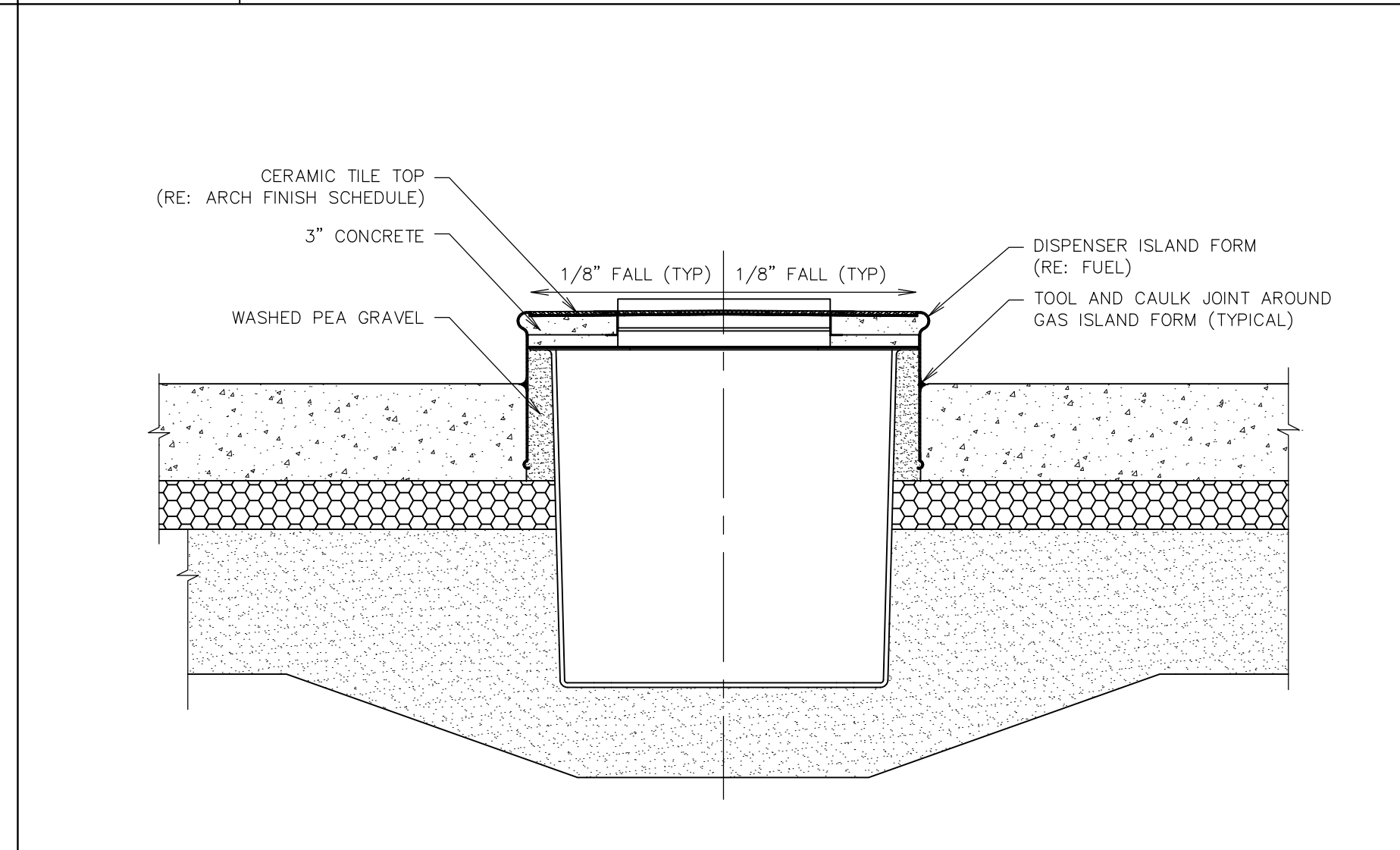
L1	SIDEWALK SECTION
NTS	SN: PD057A003



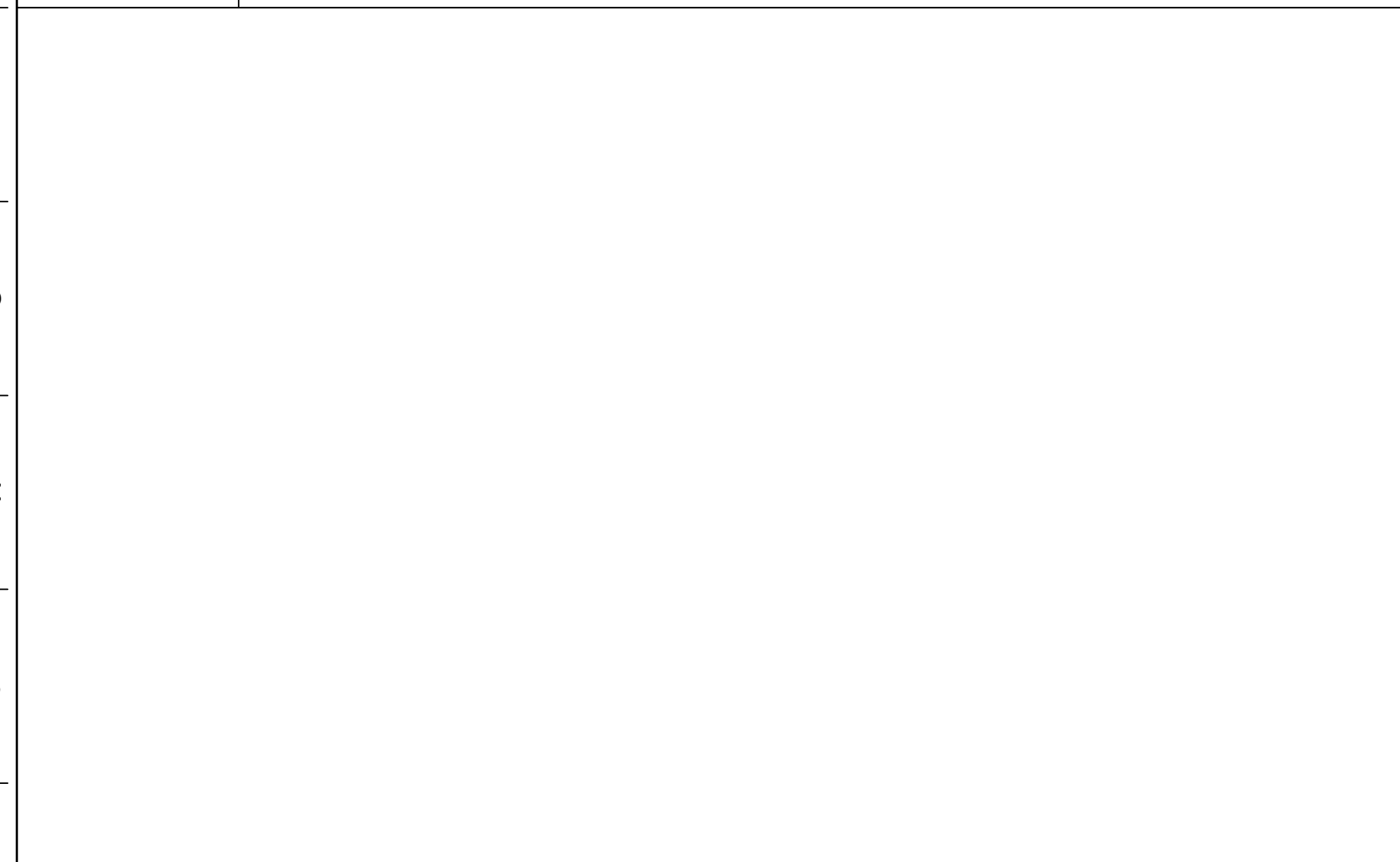
F1	CURB DETAIL - DRIVE ENTRANCE
NTS	SN: PD043A004



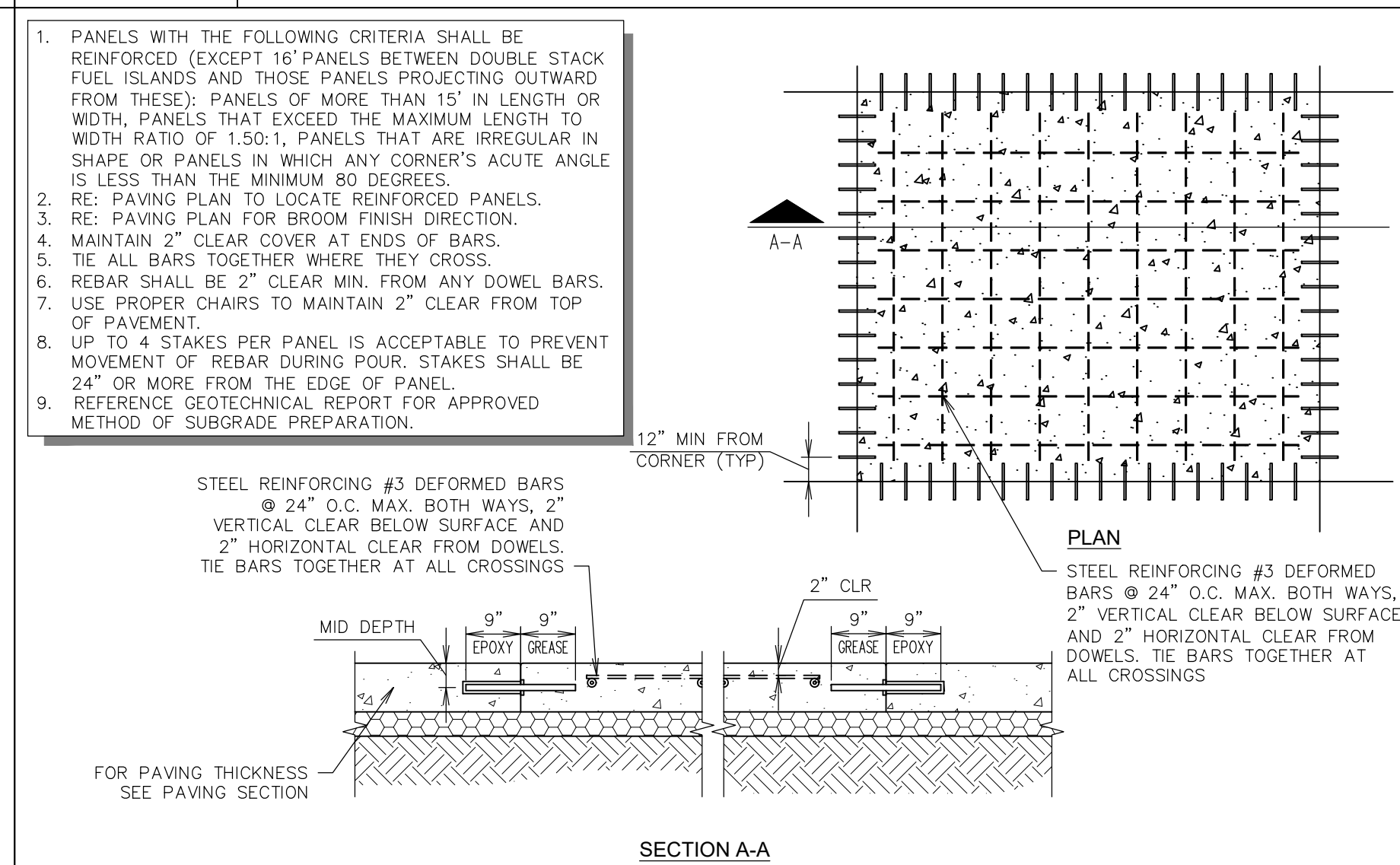
F6	DOWEL - JOINT SEPARATION DETAIL
NTS	SN: PD046A002



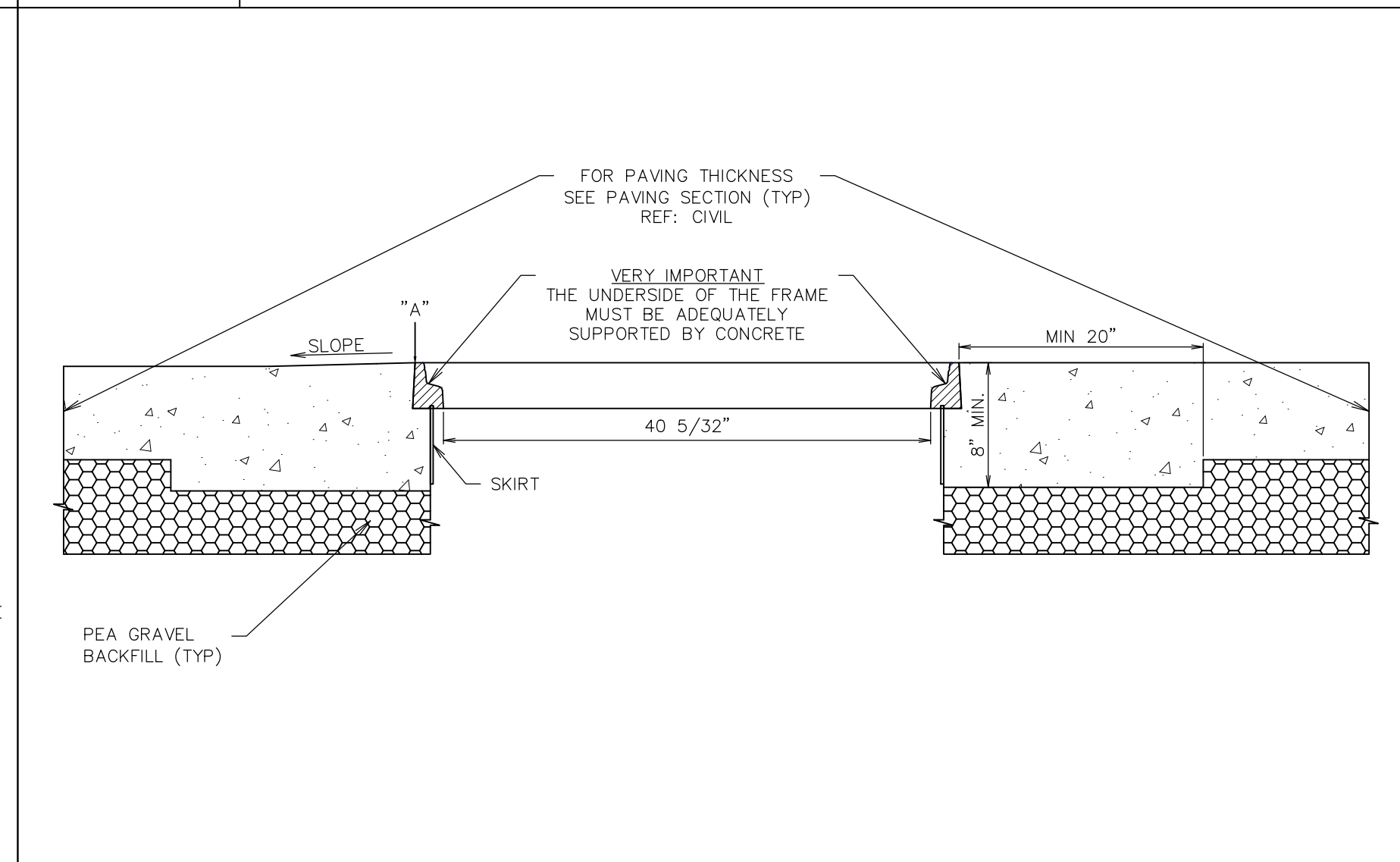
F11	DISPENSER ISLAND FORM - CONCRETE FILL & JOINTING DETAIL
NTS	SN: PD047A003



A1	NOT USED
NTS	SN:



A6	PAVEMENT REINFORCING DETAIL (DOWELED)
NTS	SN: PD003A013



A11	FIBERLITE LID DETAIL
NTS	SN: PD071A003

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Midwest Design Group
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[illegible]

SHEET TITLE:

PAVING DETAILS

SHEET NUMBER:

C523

FILE LOCATION: \\desktop-himogp\civil 3d projects\q183 lee's summit.mxd 02-0183 DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 5 USER: dnhai SAVED: 5/6/2025 3:42 PM PLOTTED: 5/9/2025 10:37 AM

1					6					11				
L1					L6					L11				
NOT USED					NOT USED					NOT USED				
F1					F6					F11				
NOT USED					CONCRETE APRON CORNER DETAIL (ASPHALT PAVING ONLY)					ASPHALT TO CONCRETE TRANSITION PAVING SECTION				
A1					A6					A11				
CURB DETAIL - BARRIER ASPHALT					MONOLITHIC CURB DETAIL - ROLLOVER / MOUNTABLE					CURB DETAIL - ROLLOVER / MOUNTABLE ASPHALT				
					ONLY USED AS SPECIFICALLY SHOWN ON PLAN OR AT QT REP DISCRETION									

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DIVISION: 02
VERSION: 001
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REV	DATE	DESCRIPTION

SHEET TITLE:
PAVING DETAILS

SHEET NUMBER:
C524

ORIGINAL ISSUE DATE: 05/09/2025

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
										EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC. RE. PROJECT SPECS FOR GRADATION TABLE. FINISH GRADE ~CONCRETE~ FOR PAVING THICKNESS SEE PAVING SECTION BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD 4" SAND EMBEDMENT ON BOTTOM, FILL HAUNCHES TO SPRINGLINE ONCE PIPE IS SET 4" MIN 4" MIN 1'-4" MIN. 2'-0" MIN. 4" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT.				
L1 NOT USED NTS SN:					L6 NOT USED NTS SN:					L11 BUILDING OR CANOPY DRAINAGE TRENCH SECTION (PAVED) NTS SN: TD06A006				
TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT. MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC. UNDER PAVEMENT, CURB, & FRENCH DRAIN PIPE MUST BE TAKEN TO STORM STRUCTURE, OR TO SURFACE DRAINAGE SWALE. SEE GRADING PLAN FOR LOCATION BEFORE TRANSITION TO NON PAVED TRENCH SECTION. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. FINISH GRADE BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD 4" SAND EMBEDMENT ON BOTTOM, FILL HAUNCHES TO SPRINGLINE ONCE PIPE IS SET 4" TO 6" LATERAL SANITARY SEWER LINE OR 4" TO 12" BLDG OR CANOPY STORM SEWER LINE 4" MIN 4" MIN 1'-4" MIN. 2'-0" MIN. 4" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT.										EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS RE. PROJECT SPECS FOR GRADATION TABLE. IF CONDUITS ARE TO BE STACKED, UPPERMOST CONDUIT TO REMAIN MIN. OF 4'-0" BELOW GRADE WITH MIN. 12" VERTICAL CLEARANCE BETWEEN CONDUITS NOTE: GOVERNING AGENCY SPECIFICATIONS REGARDING UTILITY TRENCH SECTIONS SHALL GOVERN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. FINISH GRADE 1'-4" MIN. ~CONCRETE~ FOR PAVING THICKNESS SEE PAVING SECTION BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD 4'-0" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT.				
F1 BUILDING OR CANOPY DRAINAGE TRENCH SECTION (NON PAVED) NTS SN: TD007A003					F6 NOT USED NTS SN:					F11 PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (PAVED) NTS SN: TD010A006				
TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS IF CONDUITS ARE TO BE STACKED, UPPERMOST CONDUIT TO REMAIN MIN. OF 4'-0" BELOW GRADE WITH MIN. 12" VERTICAL CLEARANCE BETWEEN CONDUITS * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. FINISH GRADE 1'-4" MIN. BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD 4'-0" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. NOTE: GOVERNING AGENCY SPECIFICATIONS REGARDING UTILITY TRENCH SECTIONS SHALL GOVERN.					EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS RE. PROJECT SPECS FOR GRADATION TABLE. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. FINISH GRADE ~CONCRETE~ FOR PAVING THICKNESS SEE PAVING SECTION BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD CONDUIT(S) 4" MIN 1'-0" MIN. 1'-4" MIN. 2'-0" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. NOTE: GOVERNING AGENCY SPECIFICATIONS REGARDING UTILITY TRENCH SECTIONS SHALL GOVERN.					TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. FINISH GRADE VARIES BACKFILL WITH SCREENED NATIVE* (NOTHING OVER 3") OR CLEAN FILL IN 8" LIFTS (4" IF USING HAND HELD EQUIPMENT) VIBRATING TAMPER COMPACT TO 95% SPD CONDUIT(S) 2'-0" MIN. * SCREENED NATIVE MATERIAL MUST BE APPROVED FOR USE PER THE PROJECT SPECIFICATIONS BY THE ONSITE CMT PRIOR TO PLACEMENT. NOTE: GOVERNING AGENCY SPECIFICATIONS REGARDING UTILITY TRENCH SECTIONS SHALL GOVERN.				
A1 PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (NON PAVED) NTS SN: TD011A004					A6 1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (PAVED) NTS SN: TD012A006					A11 1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (UNPAVED) NTS SN: TD013A004				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

QUIKTRIP STANDARD DETAILS

PROJECT NO.:02-0183



PO Box 860015
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QuikTrip No. 0183R
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DIVISION: 02
VERSION: 001
DESIGNED BY: CSH
DRAWN BY: CSH
REVIEWED BY: TRW

[illegible]

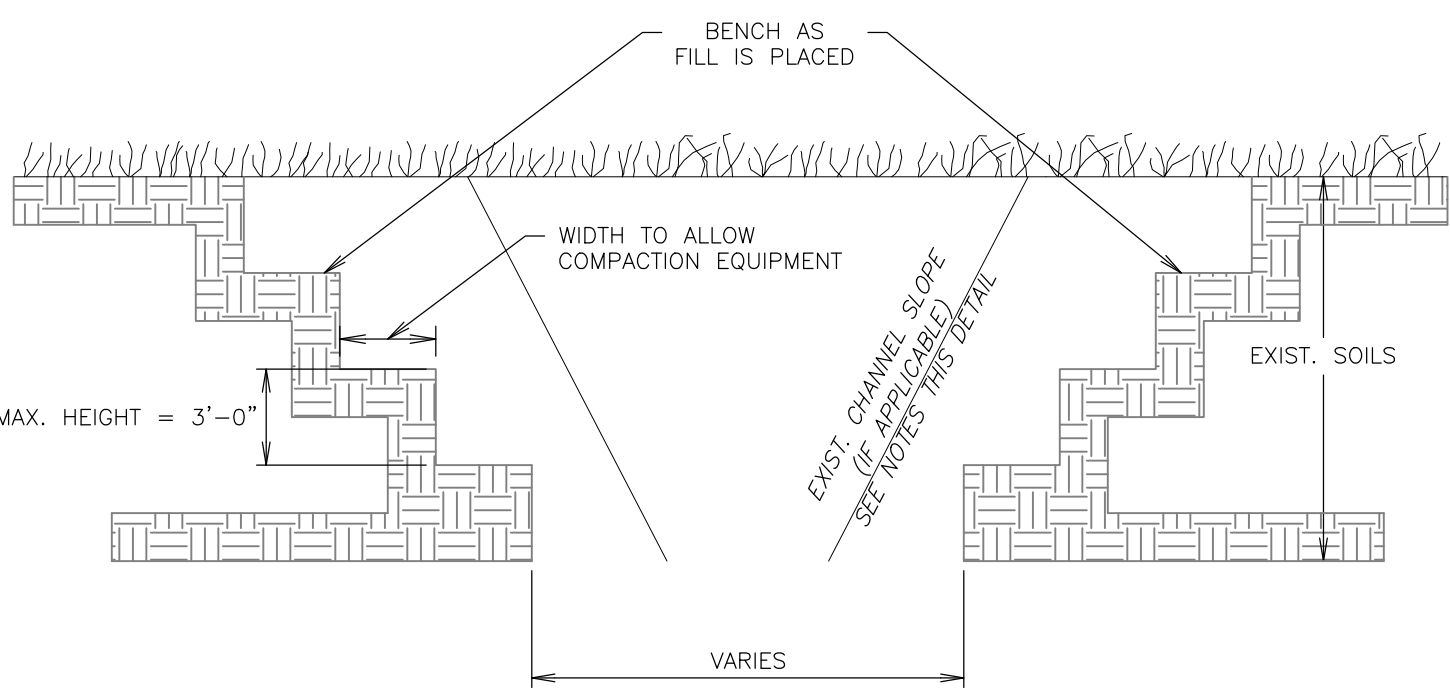
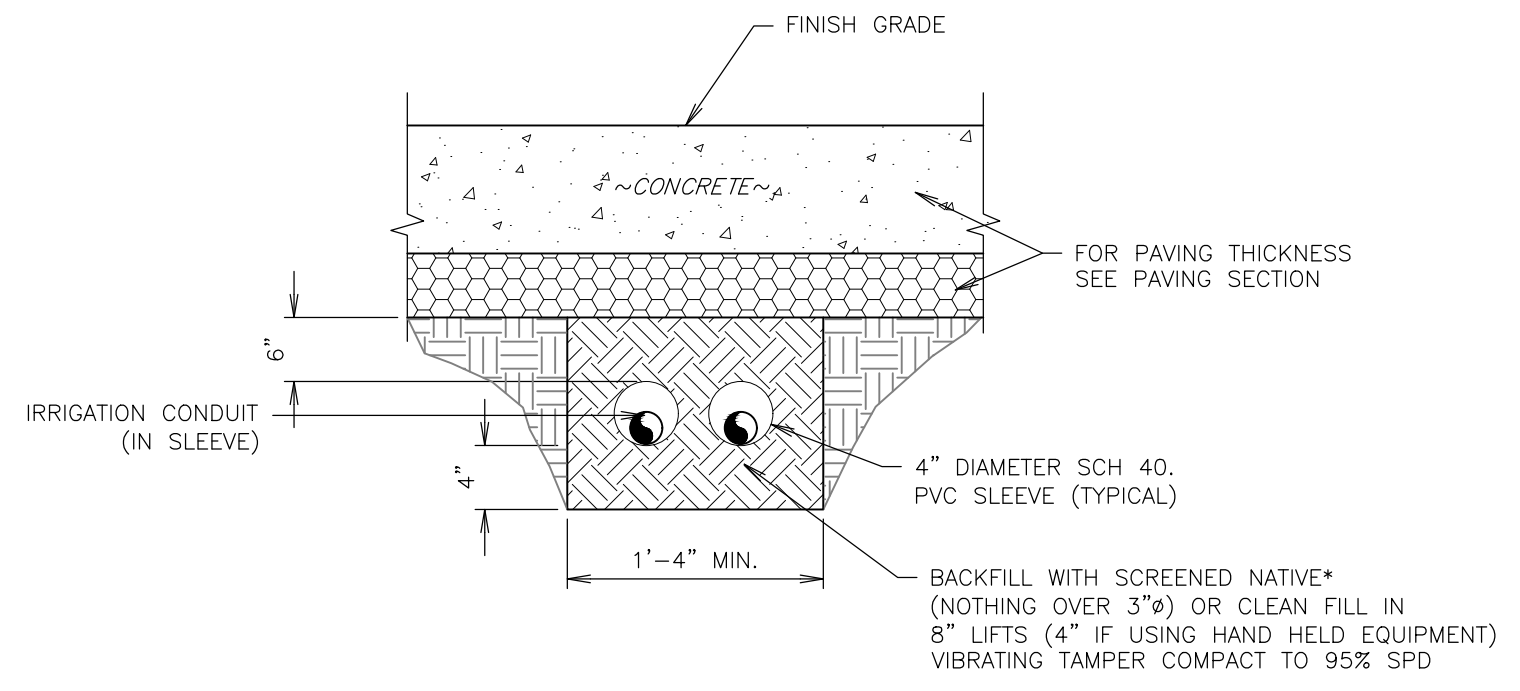
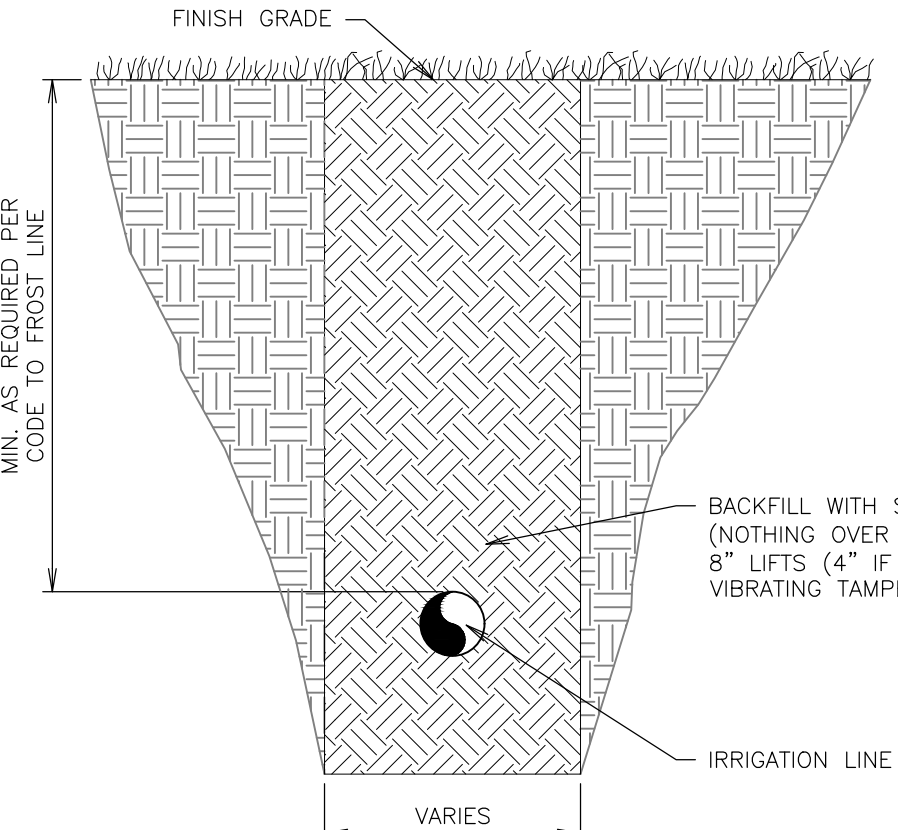
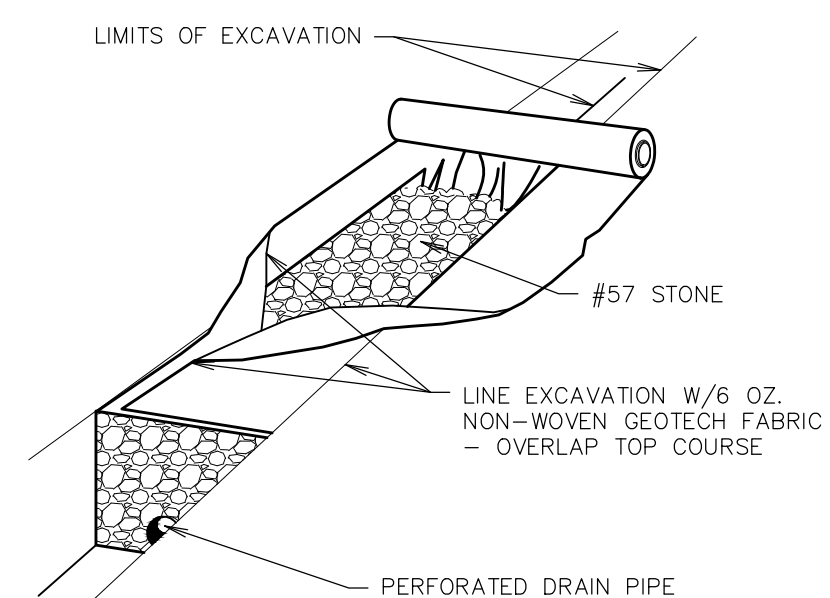
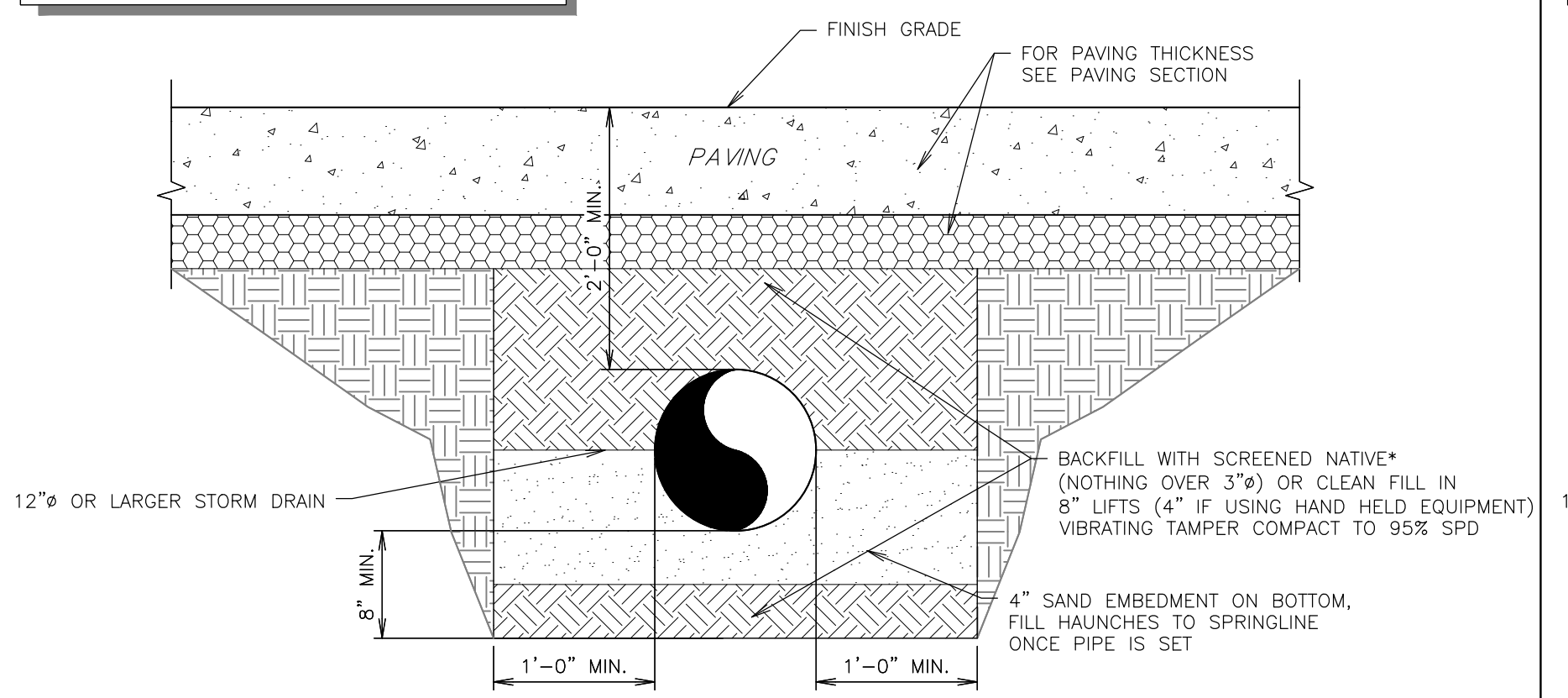
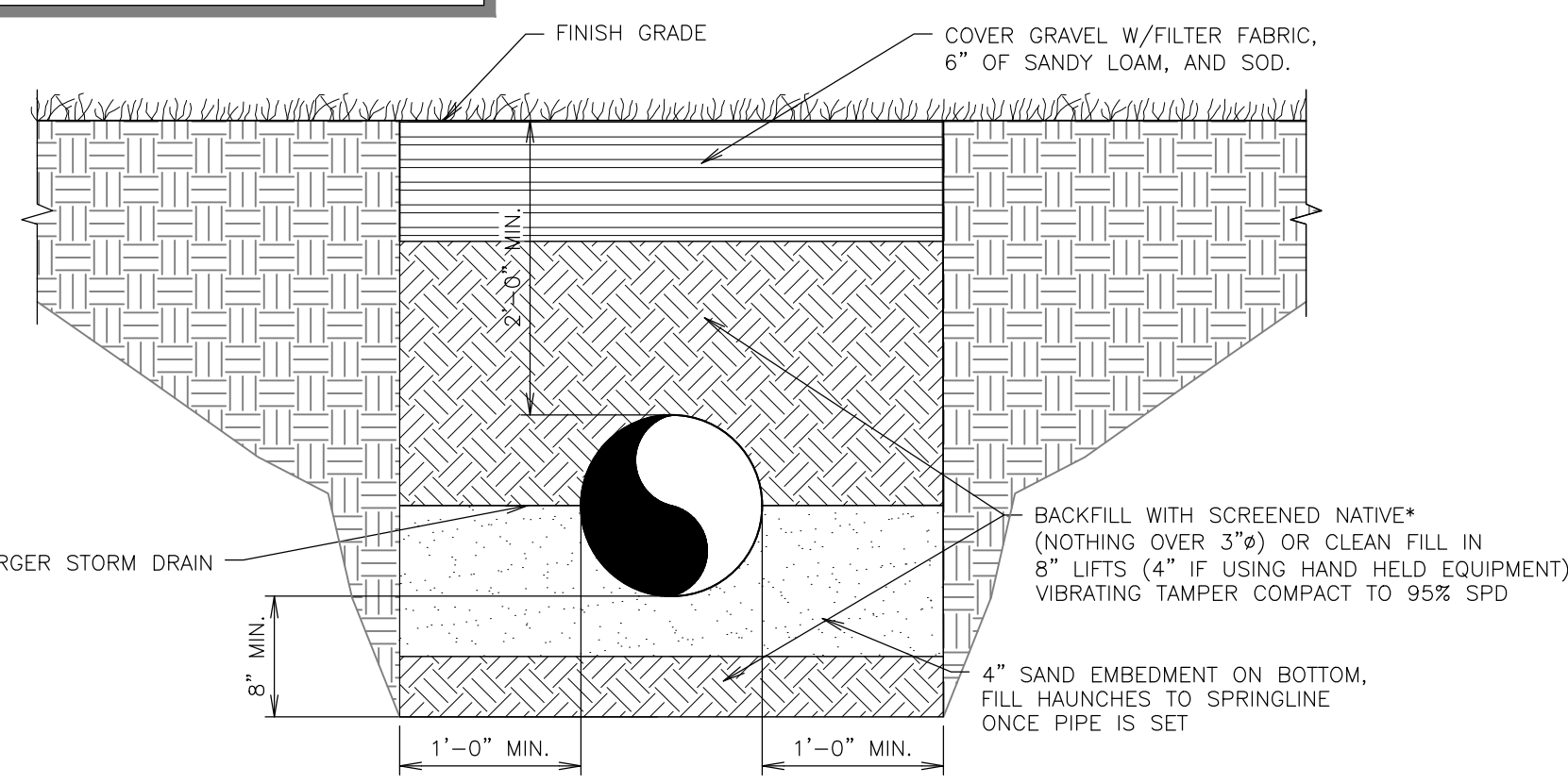
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COMPREHENSIVE TRENCHING DETAILS

SHEET NUMBER

C530

FILE LOCATION: \\desktop-hmc2g9\civil 3d projects\qt183 lee's summit, mo\02-0183 DETAILS TRENCHING.dwg TAB NAME:Trenching Details Sheet 2 USER:Connor SAVED:11/8/2024 1:10 PM PLOTTED:5/9/2025 10:37 AM

1					6					11				
EXISTING CHANNEL EXCAVATION NOTES: 1. MUCK TO SUITABLE SOIL OR BEDROCK (SEE QT REP). 2. #57 STONE WITH FILTER FABRIC AT BOTTOM OF FINISHED CHANNEL - TO BE PLACED IF BEDROCK IS ENCOUNTERED. 					EXTEND THIS SECTION 5' BEYOND BACK OF CURB (OUTSIDE EDGE OF DRIVE) RE. PROJECT SPECS FOR GRADATION TABLE. 					TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT. 				
L1 EXCAVATION BENCHING DETAIL					L6 TYPICAL IRRIGATION PIPING TRENCH SECTION (PAVED)					L11 TYPICAL IRRIGATION PIPING TRENCH SECTION (NON PAVED)				
NTS SN: TD014A003					NTS SN: TD015A007					NTS SN: TD016A003				
GEOTECH FABRIC LINED TRENCH SHALL BE UTILIZED WITH A "PERFORATED" DRAIN DETAIL, SUCH AS A FRENCH DRAIN OR BACK OF CURB DRAIN. 					EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC. RE. PROJECT SPECS FOR GRADATION TABLE. 					EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC. RE. PROJECT SPECS FOR GRADATION TABLE. 				
F1 GEOTECH FABRIC IN SUB-SURFACE DRAIN					F6 12" DIAMETER OR LARGER STORM DRAIN (PAVED)					F11 12" DIAMETER OR LARGER STORM DRAIN (NON PAVED)				
NTS SN: TD017A003					NTS SN: TD018A002					NTS SN: TD018B002				
A1 NOT USED					A6 NOT USED					A11 NOT USED				
NTS SN:					NTS SN:					NTS SN:				

QUIKTRIP
STANDARD
DETAILS

PROJECT NO.:02-0183

MDG
Midwest Design Group
Kansas City

PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063



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PROTOTYPE: P-120
DIVISION: 02
VERSION: 001
DESIGNED BY: CSH
DRAWN BY: CSH
REVIEWED BY: TRW

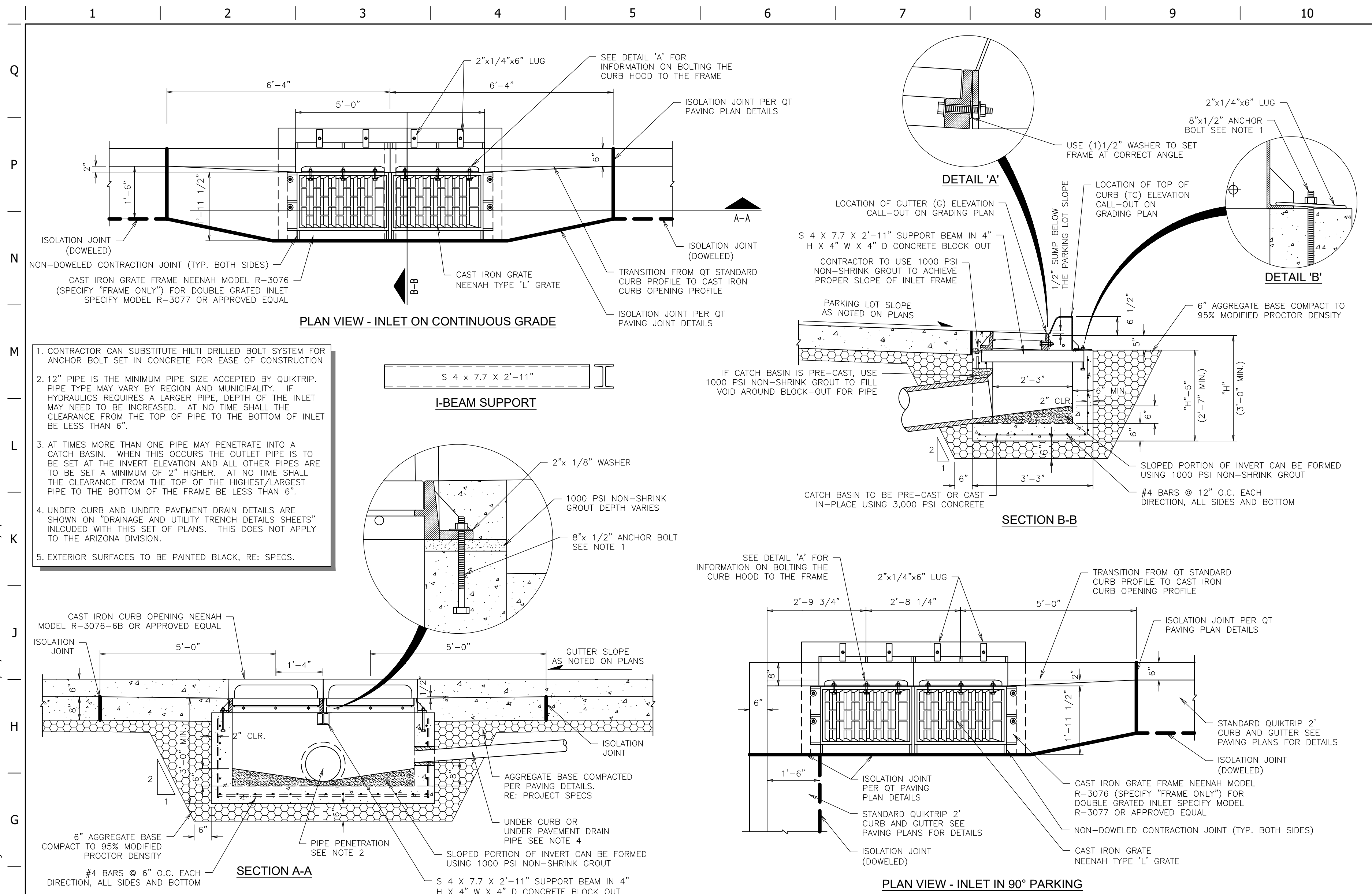
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 05/09/2025

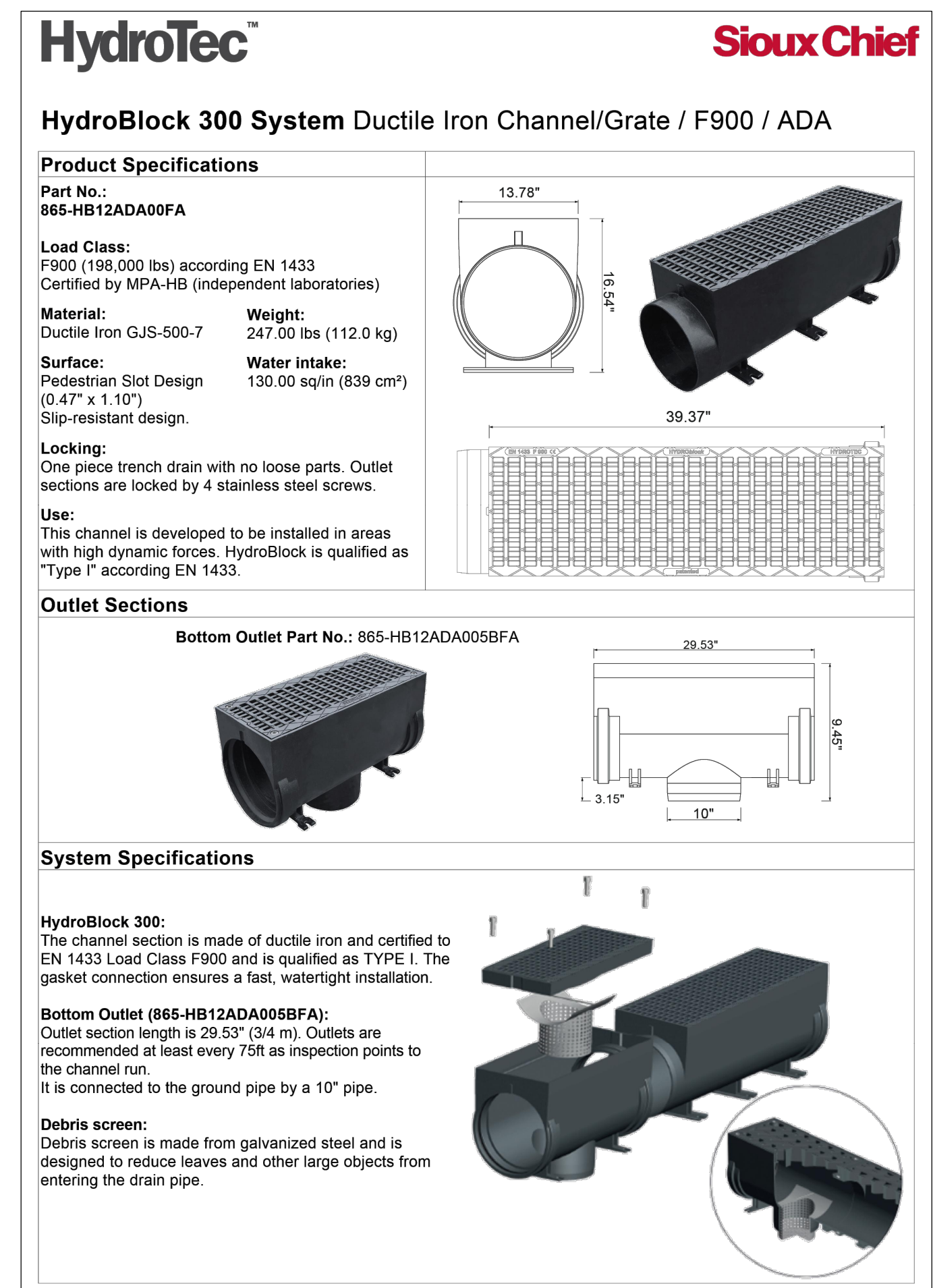
SHEET TITLE:
COMPREHENSIVE
TRENCHING DETAILS

SHEET NUMBER:

C531



F1 CATCH BASIN INLET DETAIL (DOUBLE)		A6 BACK OF CURB DRAIN SECTION	
NTS SN: DD0018010		NTS SN: DD025A002	
NOTE: ACCESS GRATE REQUIRED EVERY 30'-50'. REFER TO CANOPY PAVING PLAN FOR WIDTH REQUIREMENTS WHEN ADJACENT TO CANOPY BOLLARDS		RE: SITE PLAN FOR ROLLOVER VS BARRIER CURB PLACEMENT	
A1 HYDROTECH HYDROBLOCK ADA TRENCH DRAIN		A6 BACK OF CURB DRAIN SECTION	
NTS SN: DD030A004		NTS SN: DD025A002	



A11	NOT USED
NTS	SN:

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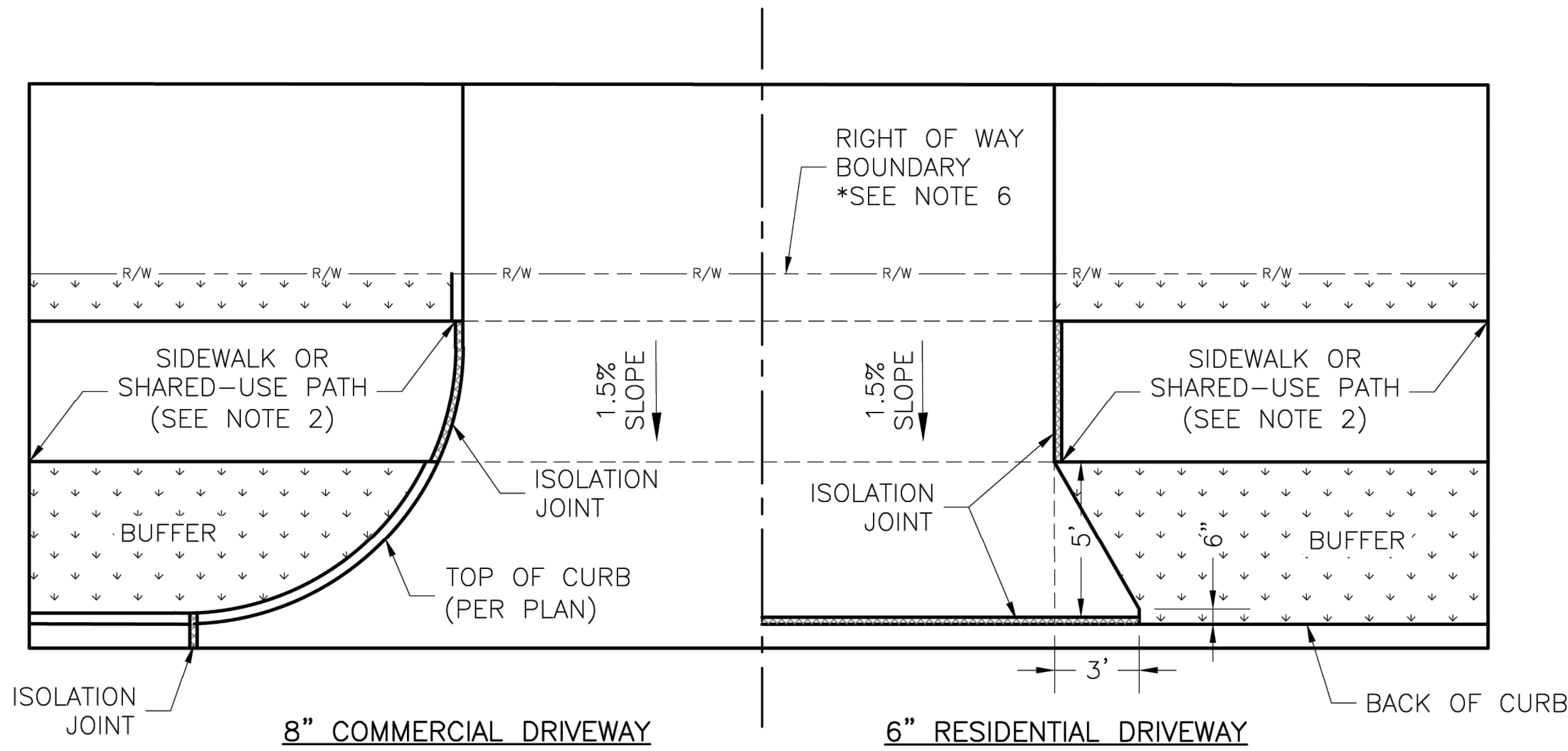
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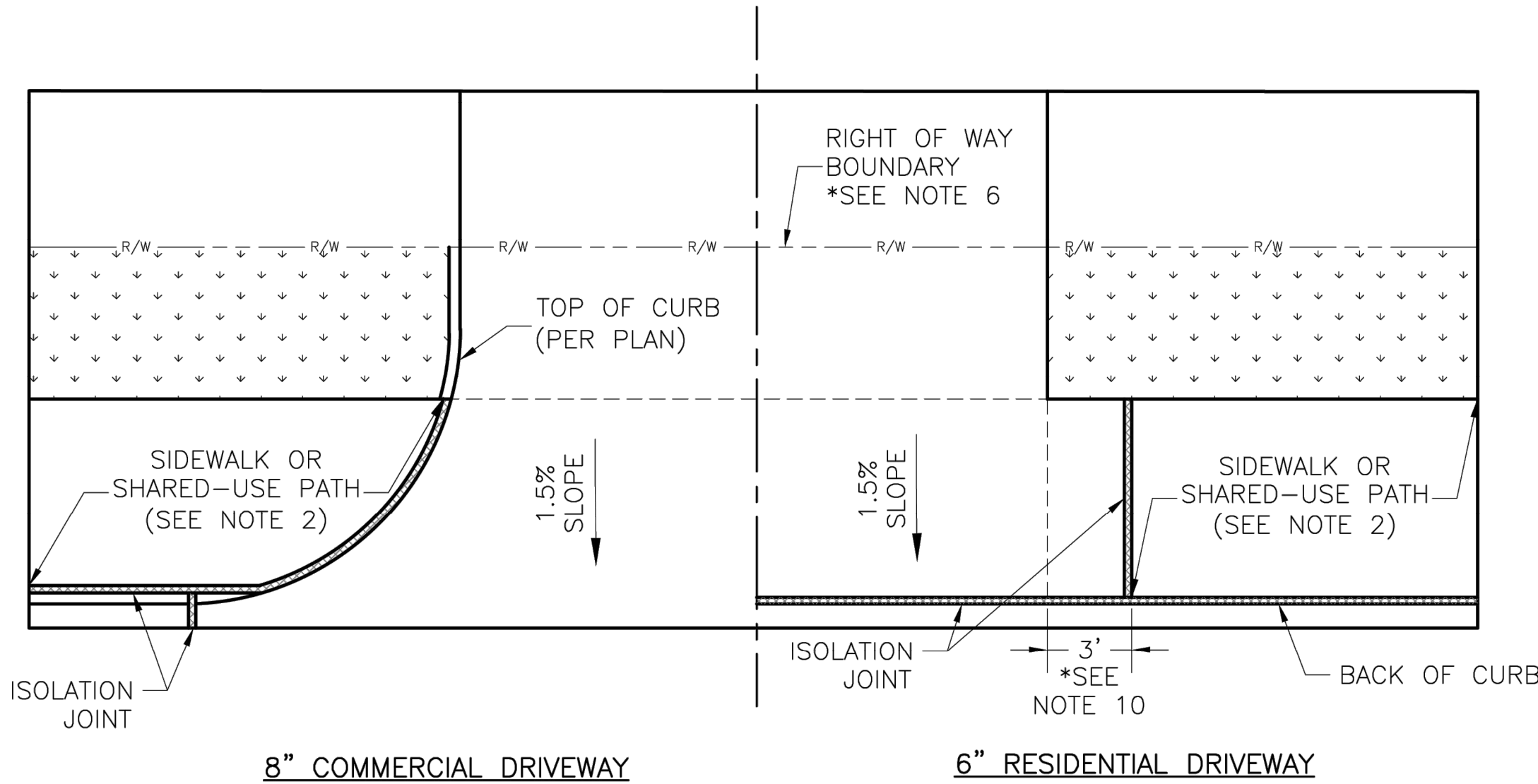
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C540

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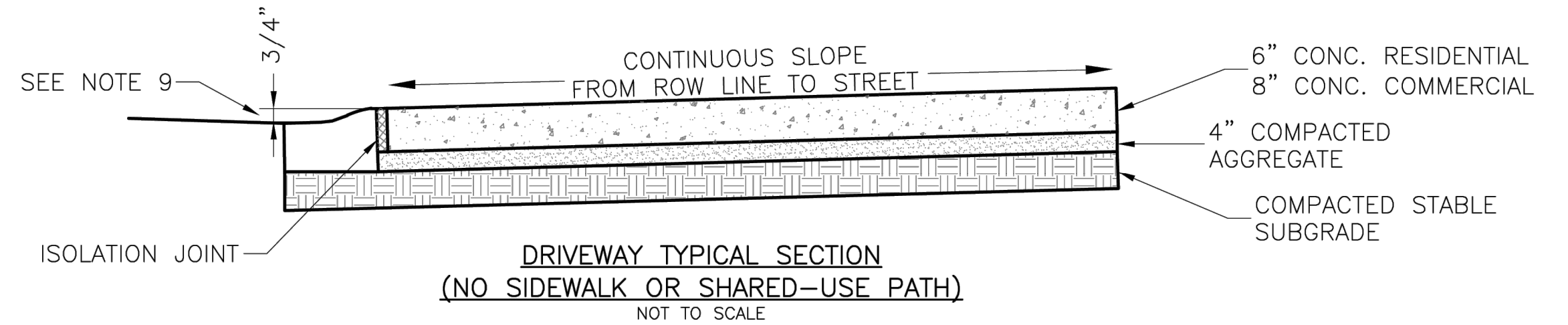
DRIVEWAY WITH BUFFER
NOT TO SCALE



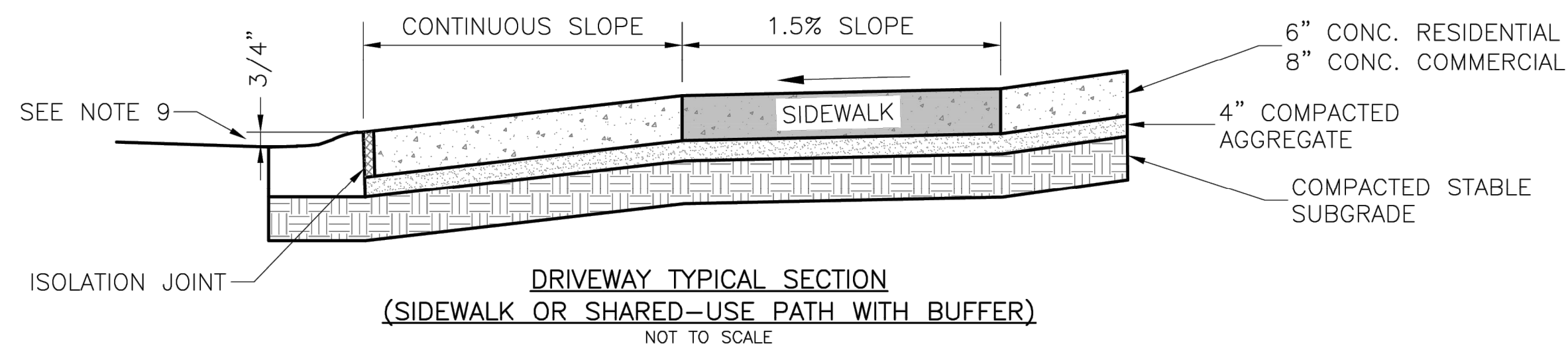
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GENERAL NOTES

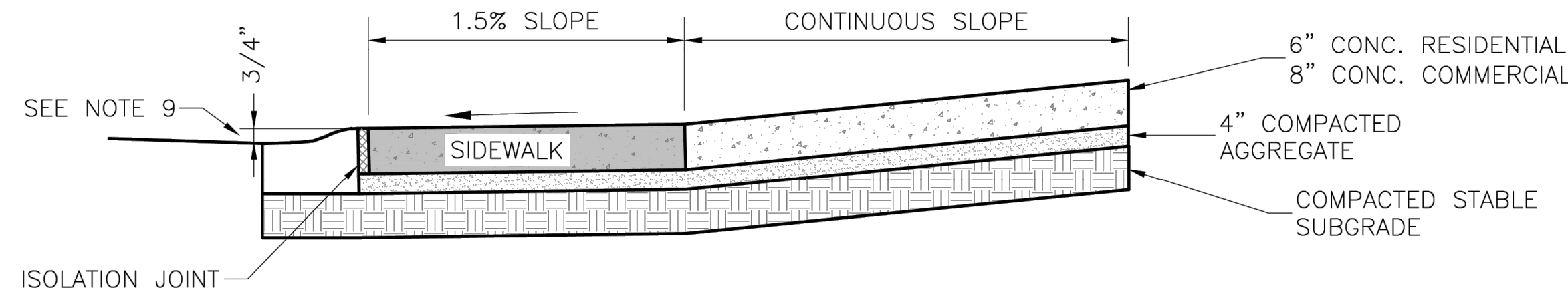
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
- JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
- KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
- COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
- RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEED TO BE APPROVED BY CITY INSPECTOR.
- A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
- 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
- SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
- THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

LEE'S SUMMIT
MISSOURI

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

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

Project:

DRIVEWAY DETAIL

Sheet Name:

Drawn By: MIF
Checked By: DL
Date: 08/2023
Proj. #:

GEN-1

CITY
STANDARD
DETAILS

PROJECT NO.:02-0183

MDG
Midwest Design Group
Kansas City

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Shawnee, KS 66286-0015
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QuikTrip No. 0183R
1001 SW BLUE PARKWAY
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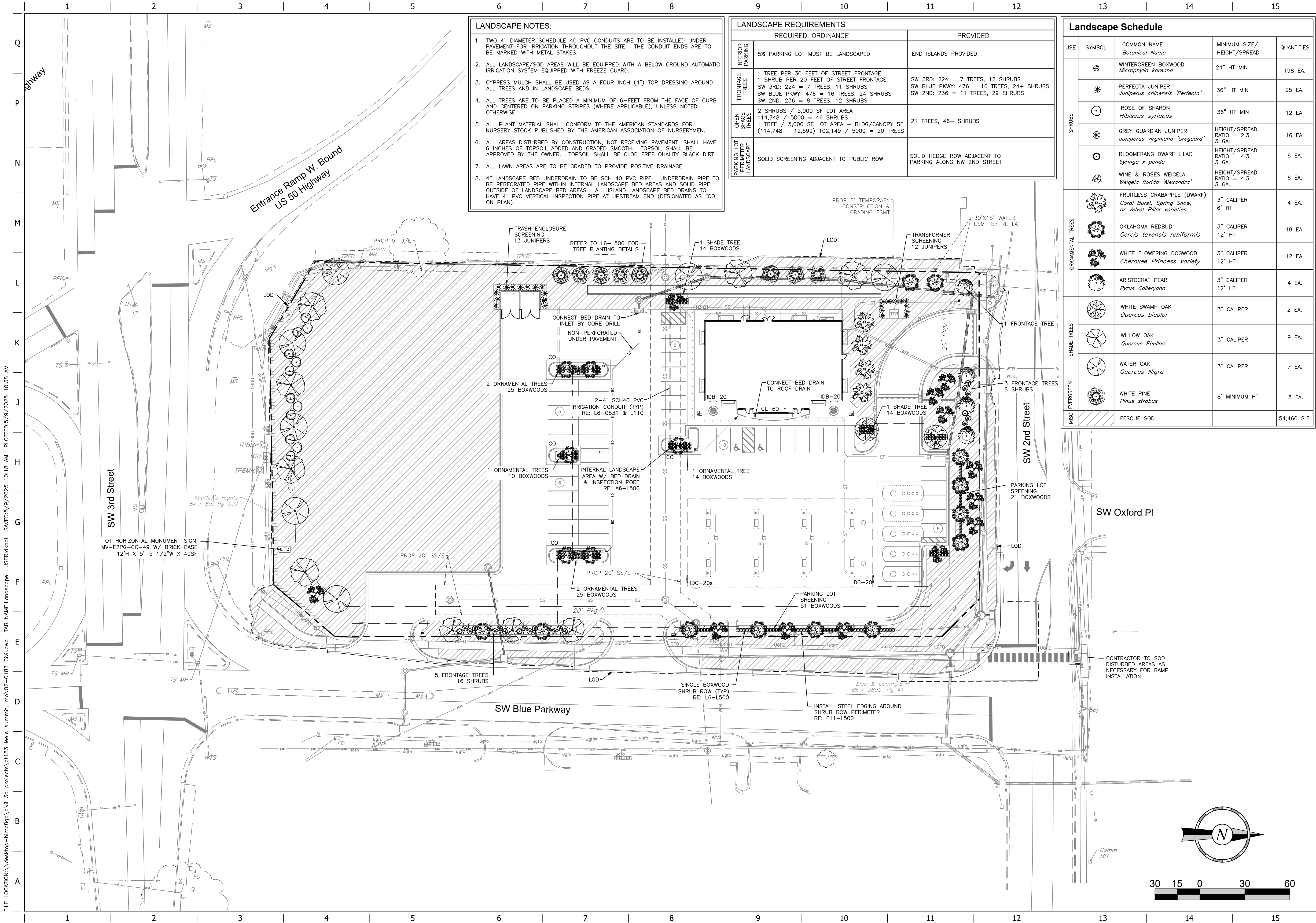
ORIGINAL ISSUE DATE: 05/09/2025

SHEET TITLE:

CITY DRIVEWAY DETAILS
(GEN-1)

SHEET NUMBER:

C550



- LANDSCAPE NOTES:**
1. TWO 4" DIAMETER SCHEDULE 40 PVC CONDUITS ARE TO BE INSTALLED UNDER PAVEMENT FOR IRRIGATION THROUGHOUT THE SITE. THE CONDUIT ENDS ARE TO BE MARKED WITH METAL STAKES.
 2. ALL LANDSCAPE/SOD AREAS WILL BE EQUIPPED WITH A BELOW GROUND AUTOMATIC IRRIGATION SYSTEM EQUIPPED WITH FREEZE GUARD.
 3. CYPRESS MULCH SHALL BE USED AS A FOUR INCH (4") TOP DRESSING AROUND ALL TREES AND IN LANDSCAPE BEDS.
 4. ALL TREES ARE TO BE PLACED A MINIMUM OF 6'-FEET FROM THE FACE OF CURB AND CENTERED ON PARKING STRIPES (WHERE APPLICABLE), UNLESS NOTED OTHERWISE.
 5. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 6. ALL AREAS DISTURBED BY CONSTRUCTION, NOT RECEIVING PAVEMENT, SHALL HAVE 6 INCHES OF TOPSOIL ADDED AND GRADED SMOOTH. TOPSOIL SHALL BE APPROVED BY THE OWNER. TOPSOIL SHALL BE CLOD FREE QUALITY BLACK DIRT.
 7. ALL LAWN AREAS ARE TO BE GRADED TO PROVIDE POSITIVE DRAINAGE.
 8. 4" LANDSCAPE BED UNDERDRAIN TO BE SCH 40 PVC PIPE. UNDERDRAIN PIPE TO BE PERFORATED PIPE WITHIN INTERNAL LANDSCAPE BED AREAS AND SOLID PIPE OUTSIDE OF LANDSCAPE BED AREAS. ALL ISLAND LANDSCAPE BED DRAINS TO HAVE 4" PVC VERTICAL INSPECTION PIPE AT UPSTREAM END (DESIGNATED AS "CO" ON PLAN).

LANDSCAPE REQUIREMENTS	
REQUIRED ORDINANCE	
INTERIOR PARKING	5% PARKING LOT MUST BE LANDSCAPED
FRONTAGE TREES	1 TREE PER 30 FEET OF STREET FRONTAGE 1 SHRUB PER 20 FEET OF STREET FRONTAGE SW 3RD: 224 = 7 TREES, 11 SHRUBS SW BLUE PKWY: 476 = 16 TREES, 24 SHRUBS SW 2ND: 236 = 8 TREES, 12 SHRUBS
OPEN SPACE TREES	2 SHRUBS / 5,000 SF LOT AREA 114,748 / 5000 = 46 SHRUBS 1 TREE / 5,000 SF LOT AREA - BLDG/CANOPY SF (114,748 - 12,599) 102,149 / 5000 = 20 TREES
PARKING LOT PERIMETER LANDSCAPE	SOLID SCREENING ADJACENT TO PUBLIC ROW
PROVIDED	
END ISLANDS PROVIDED	
SW 3RD: 224 = 7 TREES, 12 SHRUBS SW BLUE PKWY: 476 = 16 TREES, 24+ SHRUBS SW 2ND: 236 = 11 TREES, 29 SHRUBS	
21 TREES, 46+ SHRUBS	
SOLID HEDGE ROW ADJACENT TO PARKING ALONG NW 2ND STREET	

Landscape Schedule				
USE	SYMBOL	COMMON NAME <i>Botanical Name</i>	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES
SHRUBS		WINTERGREEN BOXWOOD <i>Microphylla koreana</i>	24" HT MIN	198 EA.
		PERFECTA JUNIPER <i>Juniperus chinensis 'Perfecta'</i>	36" HT MIN	25 EA.
		ROSE OF SHARON <i>Hibiscus syriacus</i>	36" HT MIN	12 EA.
		GREY GUARDIAN JUNIPER <i>Juniperus virginiana 'Greguard'</i>	HEIGHT/SPREAD RATIO = 2:3	16 EA.
		BLOOMERANG DWARF LILAC <i>Syringa x penda</i>	HEIGHT/SPREAD RATIO = 4:3	6 EA.
ORNAMENTAL TREES		WINE & ROSES WEIGELA <i>Weigela florida 'Alexandra'</i>	HEIGHT/SPREAD RATIO = 4:3	6 EA.
		FRUITLESS CRABAPPLE (DWARF) <i>Coral Burst, Spring Snow, or Velvet Pillar varieties</i>	3" CALIPER 6' HT	4 EA.
		OKLAHOMA REDBUD <i>Cercis texensis reniformis</i>	3" CALIPER 12' HT	18 EA.
		WHITE FLOWERING DOGWOOD <i>Cherokee Princess variety</i>	3" CALIPER 12' HT	12 EA.
		ARISTOCRAT PEAR <i>Pyrus Calleryana</i>	3" CALIPER 12' HT	4 EA.
SHADE TREES		WHITE SWAMP OAK <i>Quercus bicolor</i>	3" CALIPER	2 EA.
		WILLOW OAK <i>Quercus Phellos</i>	3" CALIPER	9 EA.
		WATER OAK <i>Quercus Nigra</i>	3" CALIPER	7 EA.
MISC EVERGREEN		WHITE PINE <i>Pinus strobus</i>	8' MINIMUM HT	8 EA.
		FESCUE SOD		54,460 S.F.

PROJECT NO.: 02-0183

Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063

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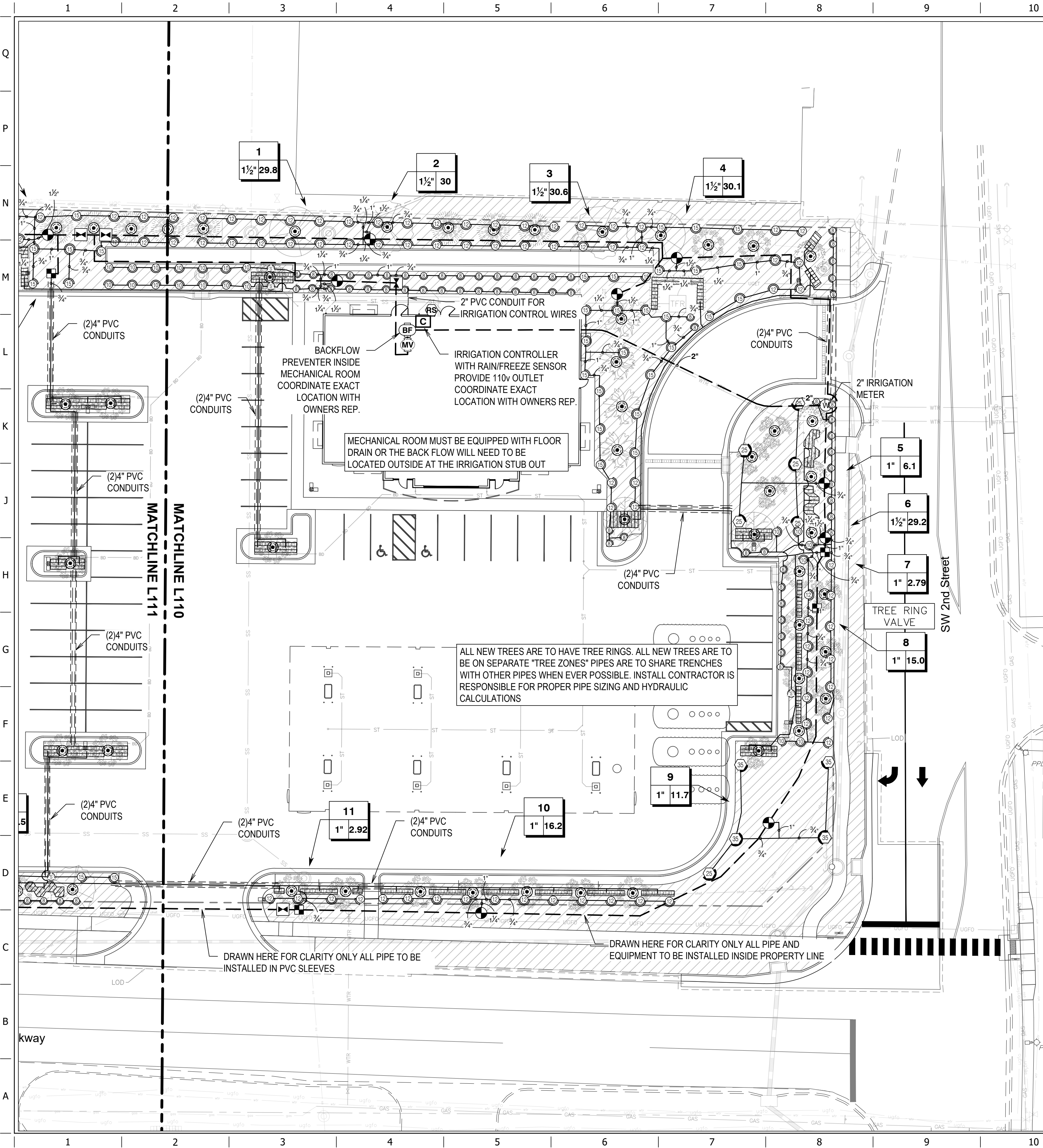
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SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
L100



GENERAL NOTES

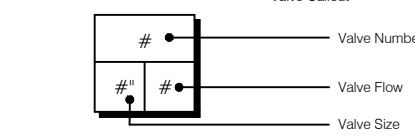
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- THE IRRIGATION DESIGN IS CONCEPTUAL AND DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
- FOR CLARITY SOME LINES AND OBJECTS MAY APPEAR TO BE OUT OF PLACE. IT SHOULD BE UNDERSTOOD THAT ALL IRRIGATION PIPE AND EQUIPMENT IS TO BE PLACED IN THE LANDSCAPE AREAS.
- FLOW RATES ARE ESTIMATED AND AS SUCH WILL VARY IF ALTERATIONS ARE MADE BY CONTRACTOR.
- INSTALL CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR FLOW, PIPE SIZING HYDRAULIC CALCULATIONS, INSTALL, ADJUSTMENTS AND WARRANTIES.
- CONTRACTOR IS RESPONSIBLE FOR PROPER NOZZLE ADJUSTMENT SO AS NOT TO OVER SPRAY OR WATER ANY SIDEWALKS, PARKING AREAS, OR ANY OTHER NON PERVIOUS AREAS.
- TREE RINGS ARE TO BE ON SEPARATE "TREE ZONES". WHEN POSSIBLE PIPE IS TO BE RUN IN TRENCHES WITH OTHER PIPE. IRRIGATION INSTALL CONTRACTOR IS RESPONSIBLE FOR PROPER PIPE SIZING FOR TREE ZONES.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURE'S CURRENT SPECIFICATIONS AND IN ACCORDANCE WITH ALL LAWS AND CODES THAT GOVERN LEE'S SUMMIT, MO.
- EXACT STATIC WATER PRESSURE IS UNKNOWN AT TIME OF THE DESIGN CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 65PSI WITH A FLOW OF 35GPM AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
- CONTRACTOR WILL COORDINATE EXACT LOCATIONS OF WATER METER, BACK FLOW PREVENTER, CONTROLLER AND CLIMATE SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
- WHEN TRENCHING UNDER THE DRIP LINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIP LINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIP LINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND UNDER GROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE OF LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORK AREA.
- ALL MAINLINE SHALL BE SCH40 PVC. ALL LATERAL PIPING SHALL BE SCH40 PVC PIPING. ALL PVC FITTINGS SHALL BE PVC TYPE 1 AND MUST BE OF DOMESTIC MANUFACTURE. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURE OF THE PIPE
- ALL SLEEVES WILL BE SCH40 AND MUST BE A MINIMUM OF TWO PIPE SIZES LARGER THAN THE COLLECTIVE SIZES OF ALL PIPES TO BE PLACED IN SLEEVE
- GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROPER LOCATION AND SIZING OF SLEEVES BEFORE CONSTRUCTION BEGINS.
- IRRIGATION INSTALL CONTRACTOR SHALL PLAN A CONTINGENCY PLAN FOR A BOOSTER PUMP IN ADVANCE IN THE EVENT THAT ONE BECOMES NECESSARY SO AS TO NOT SLOW OR POSTPONE CONSTRUCTION COMPLETION.
- IRRIGATION INSTALLER SHALL COORDINATE AS-BUILT ZONE SHEET (SEE QT CONSTRUCTION MANAGER) WITH WEATHERMATIC (AARON@OKHOMALANDSCAPE.COM) AS REQUIRED FOR COMMISSION OF THE IRRIGATION SYSTEM.

CRITICAL ANALYSIS

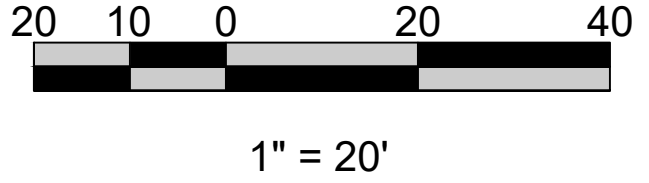
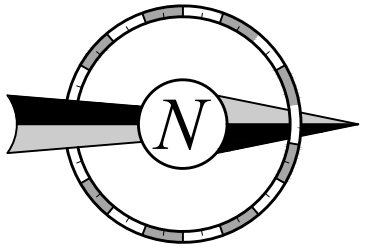
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FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available:	70.55 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20 ft
Pressure Available:	62 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	30.59 GPM
Flow Available at POC:	70.55 GPM
Residual Flow Available:	39.96 GPM
Critical Station:	20
Design Pressure:	35 PSI
Friction Loss:	2.92 PSI
Fittings Loss:	0.29 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.69 PSI
Pressure Req. at Critical Station:	41.9 PSI
Loss for Fittings:	0 PSI
Loss for Main Line:	2.24 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	13.4 PSI
Loss for Master Valve:	3.69 PSI
Loss for Water Meter:	0.69 PSI
Critical Station Pressure at POC:	61.9 PSI
Pressure Available:	62 PSI
Residual Pressure Available:	0.1 PSI

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 1806 U-PRS 15 Strip Series Turf Spray 6in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. Pressure Regulating.	13
	Rain Bird 1806 U-PRS U8 Series Turf Spray 6in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. Pressure Regulating.	67
	Rain Bird 1806 U-PRS U10 Series Turf Spray 6in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. Pressure Regulating.	20
	Rain Bird 1806 U-PRS U12 Series Turf Spray 6in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. Pressure Regulating.	86
	Rain Bird 1806 U-PRS U15 Series Turf Spray 6in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. Pressure Regulating.	35
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 5004 PC-MPR 25 Turf Rotor, 4in. Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 ft.-red, 30 ft.-green, 35ft.-beige.	6
	Rain Bird 5004 PC-MPR 35 Turf Rotor, 4in. Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 ft.-red, 30 ft.-green, 35ft.-beige.	43
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Wide Flow Drip Control Kit, for Light Commercial Uses, 1in. PEB Valve, with 1in. Pressure Regulating 40psi Basket Filter, 0.3-20 GPM.	5
	Netafim TLDL-09-12 Drip Ring	76
	Area to Receive Dripline	
	Netafim TLDL-04-12	
	Techline Pressure Compensating Landscape Dripline, 0.4 GPH emitters at 12\"/>	
	Turf Sprinkler	1,231 If
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1-1/2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	10
	Rain Bird PEB 1" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	7
	Landscape Products Inc. BBV Full Port Brass Ball Valve. Suitable for a full range of liquids and gases in residential and commercial applications. Sized to fit mainline.	5
	Rain Bird PEB 1-1/2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	1
	Zurn 975XL 1-1/2" Reduced Pressure Backflow device	1
	Weathermatic SL648FTW Smart-Line 48-zone 2-wire controller, internal 120VAC/230VAC transformer, large backlit LCD display, Multi-station simultaneous operation. (Supplied by QT and installed by contractor)	1
	Weathermatic SLW5 Wireless Weather Sensor for ET Based Watering, 900mhz - 1500K, line of site range	1
	Water Meter 2"	1
	Irrigation Lateral Line: PVC Schedule 40 3/4"	3,740 If
	Irrigation Lateral Line: PVC Schedule 40 1"	441 If
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	256.5 If
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	68.0 If
	Irrigation Mainline: PVC Schedule 40 2"	1,790 If
	Pipe Sleeve: PVC Schedule 40 4" Sleeves	850.7 If



EXACT STATIC PRESSURE WAS UNKNOWN AT TIME OF DESIGN. IRRIGATION INSTALL CONTRACTOR MUST VERIFY A DYNAMIC PRESSURE OF 65PSI WITH A FLOW OF 35GPM AT THE STUB OUT. IF PRESSURE IS LOWER OR EXCESSIVELY HIGHER CONTRACTOR MUST CONTACT OWNERS REPRESENTATIVE PRIOR TO ANY CONSTRUCTION TO DETERMINE IF A BOOSTER PUMP OR DESIGN REVISIONS ARE NECESSARY.



DATE SIGNED: 04/25/2025
PROJECT NO.: 02-0183

Irrigation Design & Consulting LLC
Email: contactus@irrigationplan.com
Website: www.irrigationplan.com
Phone: (918) 215-4010

QuikTrip No. 0183R

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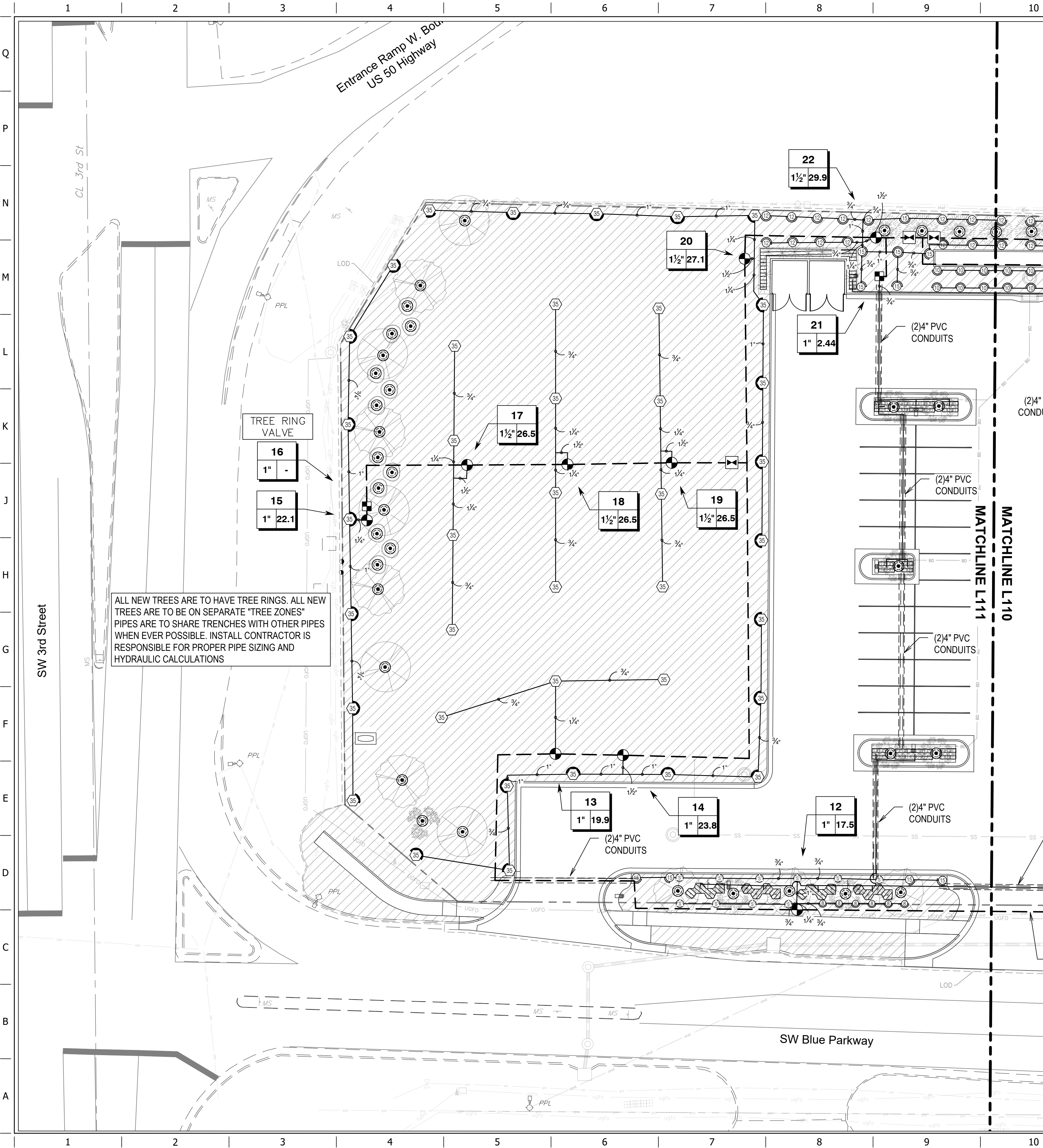
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VERSION: 001
DESIGNED BY: MCM
DRAWN BY: MCM
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
IRRIGATION PLAN
SHEET 1

SHEET NUMBER:
L110

ORIGINAL ISSUE DATE: 02/24/2025



- GENERAL NOTES
- THIS DESIGN WAS PREPARED BY IRRIGATION DESIGN AND CONSULTING, BASED SOLELY ON THE DRAWINGS AND INFORMATION PROVIDED BY THE OWNER, AND HOLDS NO RESPONSIBILITY FOR ACCURACY OR THAT INFORMATION OR FOR ANY INSTALL OR WARRANTIES. INSTALL CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER INSTALL AND FUNCTION OF THE IRRIGATION SYSTEM.
 - THE IRRIGATION DESIGN IS CONCEPTUAL AND DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
 - FOR CLARITY SOME LINES AND OBJECTS MAY APPEAR TO BE OUT OF PLACE. IT SHOULD BE UNDERSTOOD THAT ALL IRRIGATION PIPE AND EQUIPMENT IS TO BE PLACED IN THE LANDSCAPE AREAS.
 - FLOW RATES ARE ESTIMATED AND AS SUCH WILL VARY IF ALTERATIONS ARE MADE BY CONTRACTOR.
 - INSTALL CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR FLOW, PIPE SIZING HYDRAULIC CALCULATIONS, INSTALL, ADJUSTMENTS AND WARRANTIES.
 - CONTRACTOR IS RESPONSIBLE FOR PROPER NOZZLE ADJUSTMENT SO AS NOT TO OVER SPRAY OR WATER ANY SIDEWALKS, PARKING AREAS, OR ANY OTHER NON PERVIOUS AREAS.
 - TREE RINGS ARE TO BE ON SEPARATE "TREE ZONES". WHEN POSSIBLE PIPE IS TO BE RUN IN TRENCHES WITH OTHER PIPE. IRRIGATION INSTALL CONTRACTOR IS RESPONSIBLE FOR PROPER PIPE SIZING FOR TREE ZONES.
 - CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURE'S CURRENT SPECIFICATIONS AND IN ACCORDANCE WITH ALL LAWS AND CODES THAT GOVERN LEE'S SUMMIT, MO.
 - EXACT STATIC WATER PRESSURE IS UNKNOWN AT TIME OF THE DESIGN CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 65psi WITH A FLOW OF 35gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
 - CONTRACTOR WILL COORDINATE EXACT LOCATIONS OF WATER METER, BACK FLOW PREVENTER, CONTROLLER AND CLIMATE SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
 - WHEN TRENCHING UNDER THE DRIP LINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIP LINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIP LINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND UNDER GROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE OF LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORK AREA.
 - ALL MAINLINE SHALL BE SCH40 PVC. ALL LATERAL PIPING SHALL BE SCH40 PVC PIPING. ALL PVC FITTINGS SHALL BE PVC TYPE 1 AND MUST BE OF DOMESTIC MANUFACTURE. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURE OF THE PIPE
 - ALL SLEEVES WILL BE SCH40 AND MUST BE A MINIMUM OF TWO PIPE SIZES LARGER THAN THE COLLECTIVE SIZES OF ALL PIPES TO BE PLACED IN SLEEVE
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROPER LOCATION AND SIZING OF SLEEVES BEFORE CONSTRUCTION BEGINS.
 - IRRIGATION INSTALL CONTRACTOR SHALL PLAN A CONTINGENCY PLAN FOR A BOOSTER PUMP IN ADVANCE IN THE EVENT THAT ONE BECOMES NECESSARY SO AS TO NOT SLOW OR POSTPONE CONSTRUCTION COMPLETION.
 - IRRIGATION INSTALLER SHALL COORDINATE AS-BUILT ZONE SHEET (SEE QT CONSTRUCTION MANAGER) WITH WEATHERMATIC (AARON@OKHOMELANDSCAPE.COM) AS REQUIRED FOR COMMISSION OF THE IRRIGATION SYSTEM.

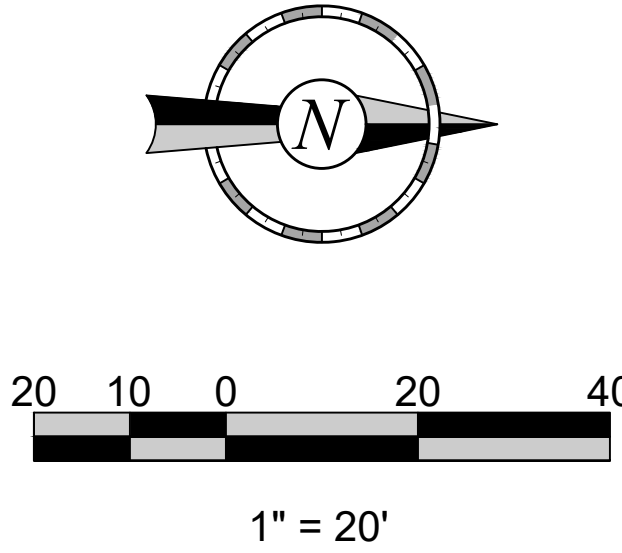
CRITICAL ANALYSIS

Generated:	2025-04-25 16:09
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	70.55 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20 ft
Pressure Available:	62 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	30.59 GPM
Flow Available at POC:	70.55 GPM
Residual Flow Available:	39.96 GPM
Critical Station:	20
Design Pressure:	35 PSI
Friction Loss:	2.92 PSI
Fittings Loss:	0.29 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.69 PSI
Pressure Req. at Critical Station:	41.9 PSI
Loss for Fittings:	0 PSI
Loss for Main Line:	2.24 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	13.4 PSI
Loss for Master Valve:	3.69 PSI
Loss for Water Meter:	0.69 PSI
Critical Station Pressure at POC:	61.9 PSI
Pressure Available:	62 PSI
Residual Pressure Available:	0.1 PSI

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 1800-U-PRS 15 Strip Series	13
	Rain Bird 1800-U-PRS U8 Series	67
	Rain Bird 1800-U-PRS U10 Series	20
	Rain Bird 1800-U-PRS U12 Series	86
	Rain Bird 1800-U-PRS U15 Series	35
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 5004-PC-MPR 25	6
	Rain Bird 5004-PC-MPR 35	43
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XC2-100-LC 1"	5
	Netafim TDL-09-12 Drip Ring	76
	Area to Receive Dripline	1,231 ft
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1-1/2"	10
	Rain Bird PEB 1"	7
	Landscape Products Inc. BBV	5
	Rain Bird PEB 1-1/2"	1
	Zurn 875XL 1-1/2"	1
	Weathermatic SL6481W	1
	Weathermatic SL6481W	1
	Water Meter 2"	1
	Irrigation Lateral Line: PVC Schedule 40 3/4"	3,740 ft
	Irrigation Lateral Line: PVC Schedule 40 1"	441.9 ft
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	256.5 ft
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	68.0 ft
	Irrigation Mainline: PVC Schedule 40 2"	1,790 ft
	Pipe Sleeve: PVC Schedule 40 4"	950.7 ft

EXACT STATIC PRESSURE WAS UNKNOWN AT TIME OF DESIGN. IRRIGATION INSTALL CONTRACTOR MUST VERIFY A DYNAMIC PRESSURE OF 65PSI WITH A FLOW OF 35GPM AT THE STUB OUT IF PRESSURE IS LOWER OR EXCESSIVELY HIGHER CONTRACTOR MUST CONTACT OWNERS REPRESENTATIVE PRIOR TO ANY CONSTRUCTION TO DETERMINE IF A BOOSTER PUMP OR DESIGN REVISIONS ARE NECESSARY.



DATE SIGNED: 04/25/2025
PROJECT NO.: 02-0183

Irrigation Design & Consulting LLC
Email: contact@irrigationplan.com
Website: www.irrigationplan.com
Phone: (918) 215-4010

QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063

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PROTOTYPE: P-118
DIVISION: 02
VERSION: 001
DESIGNED BY: MCM
DRAWN BY: MCM
REVIEWED BY:

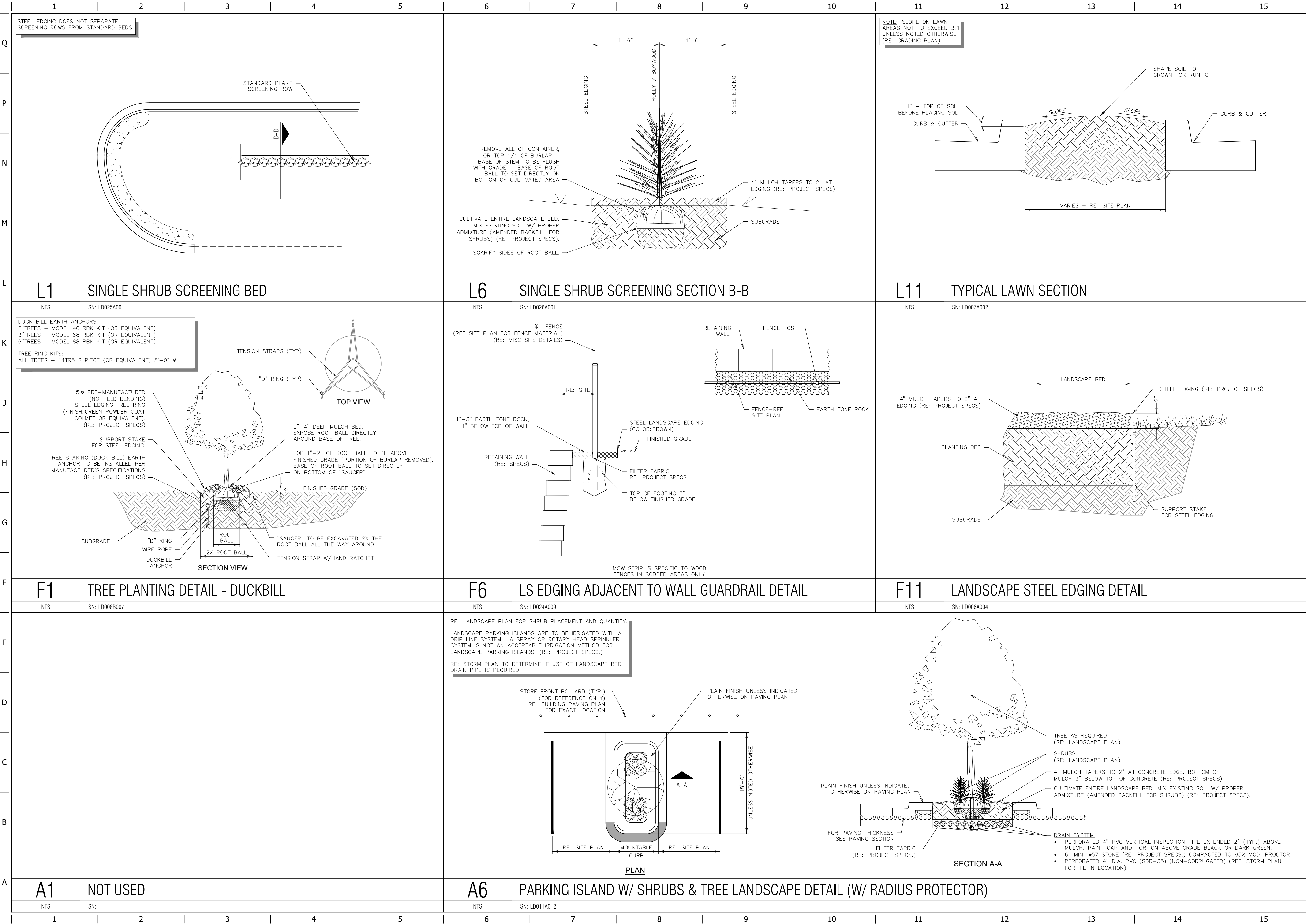
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 02/24/2025

SHEET TITLE:
IRRIGATION PLAN
SHEET 2

SHEET NUMBER:
L111

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TAB NAME:LS Detail Sheet 1
USER:cdm
SAVED:3/3/2025 8:58 AM
PLOTTED:5/9/2025 10:38 AM



QUIKTRIP
STANDARD
DETAILS

PROJECT NO.:02-0183



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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063



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DIVISION: 02

VERSION: 001

DESIGNED BY: CSH

DRAWN BY: CSH

REVIEWED BY: TRW

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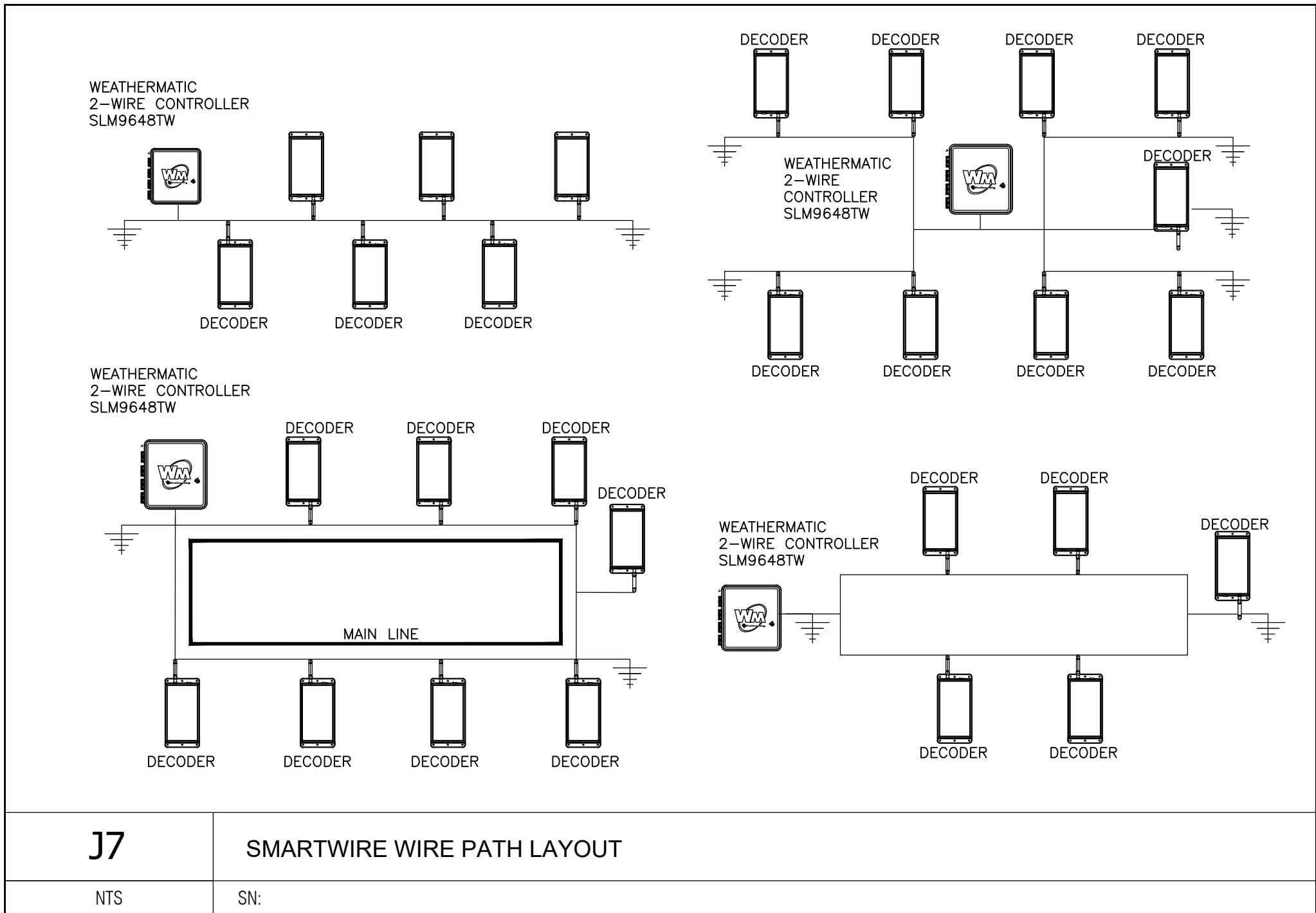
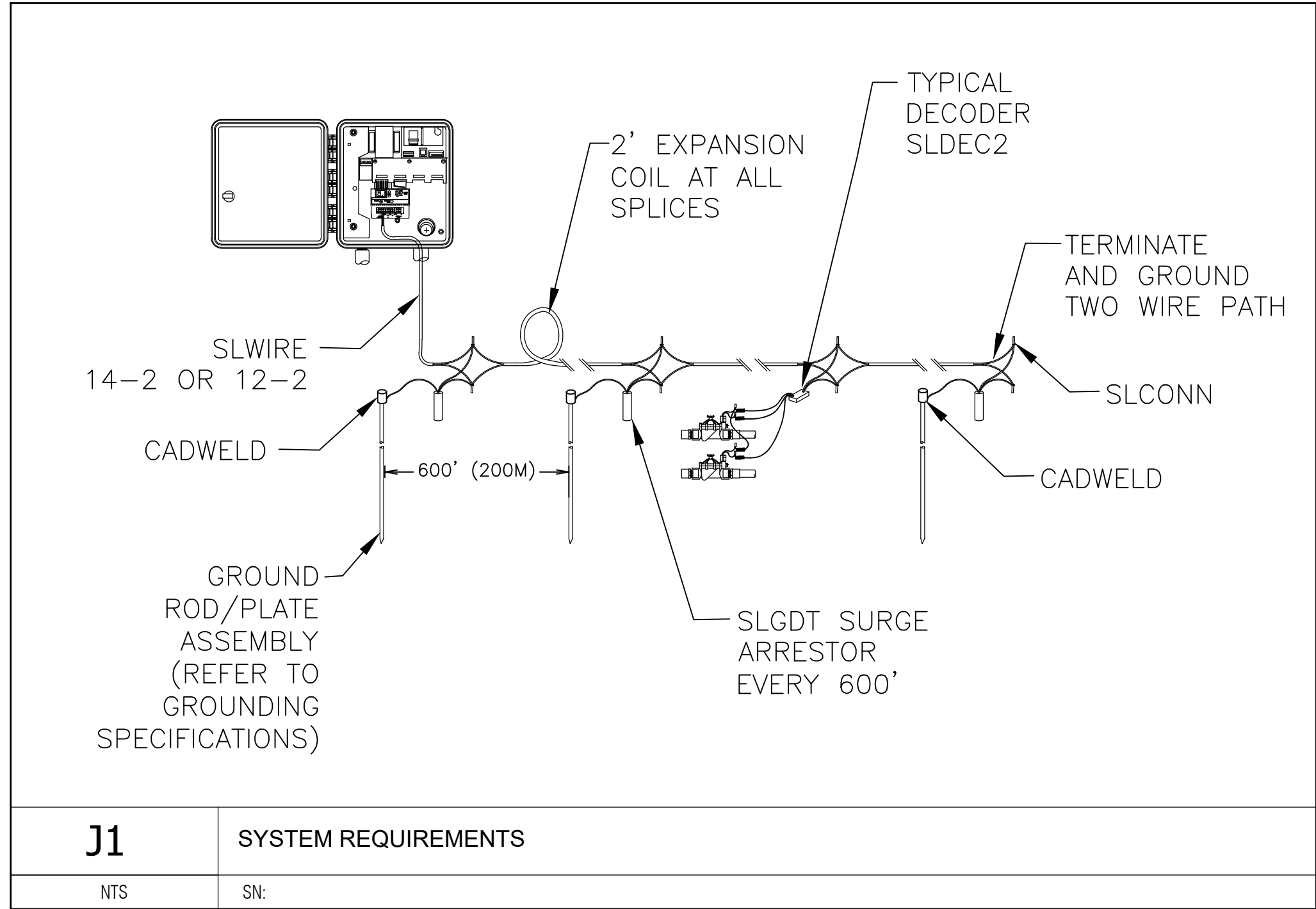
SHEET TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:

L500

Two-wire irrigation details:



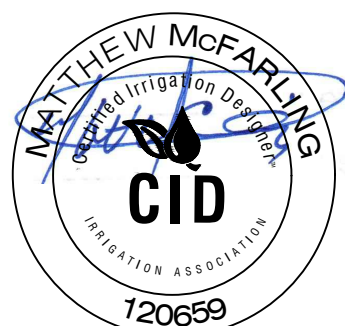
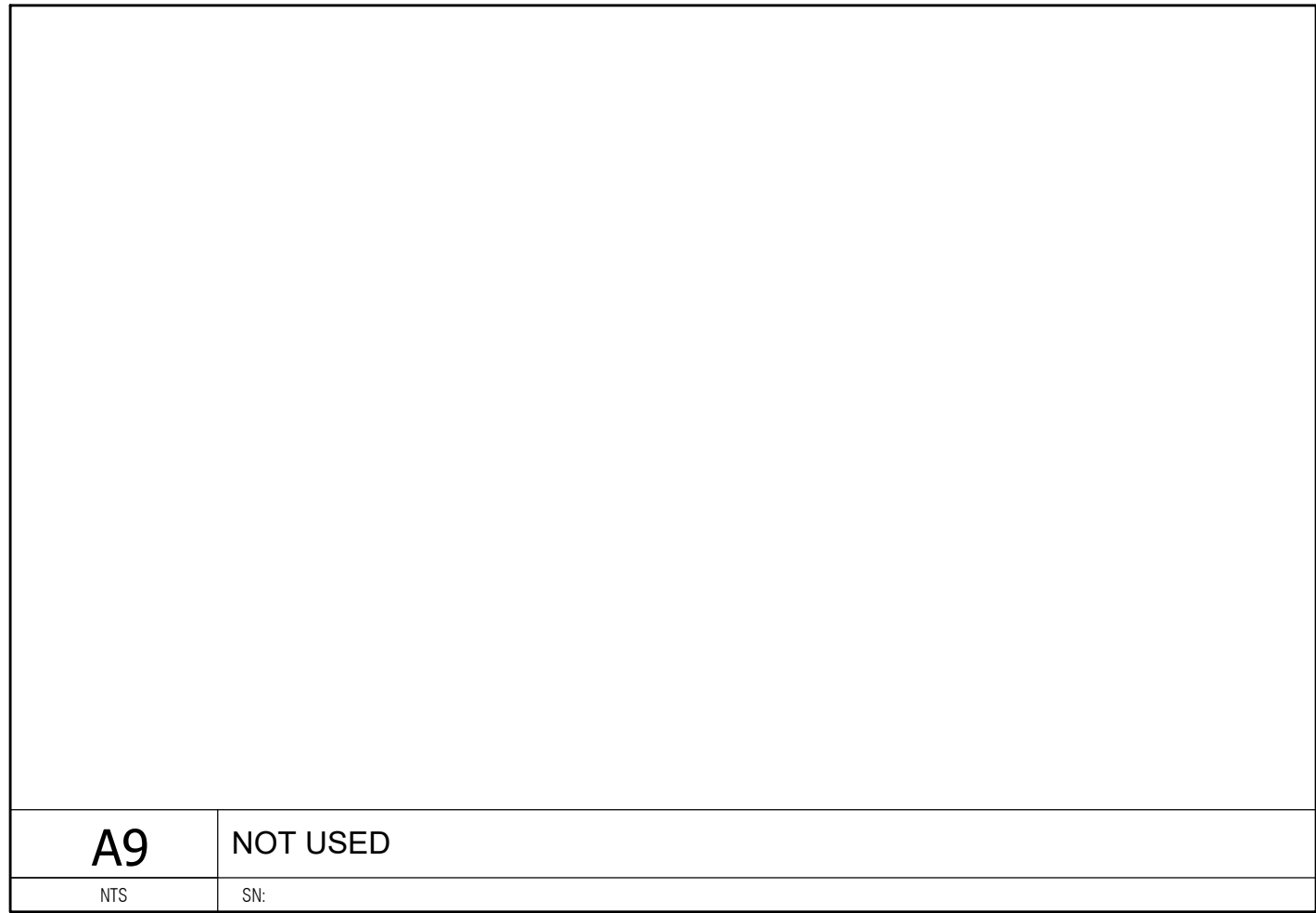
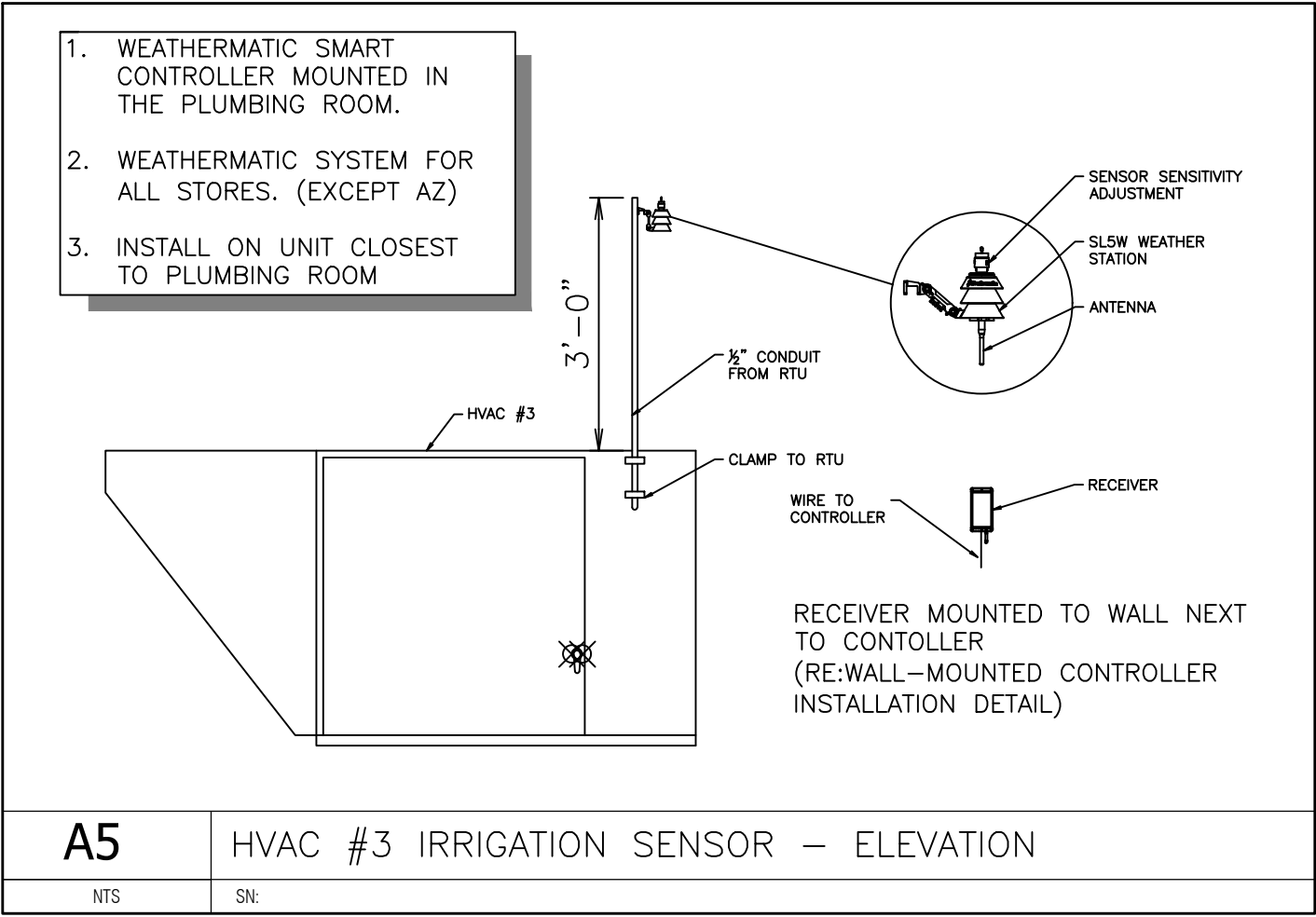
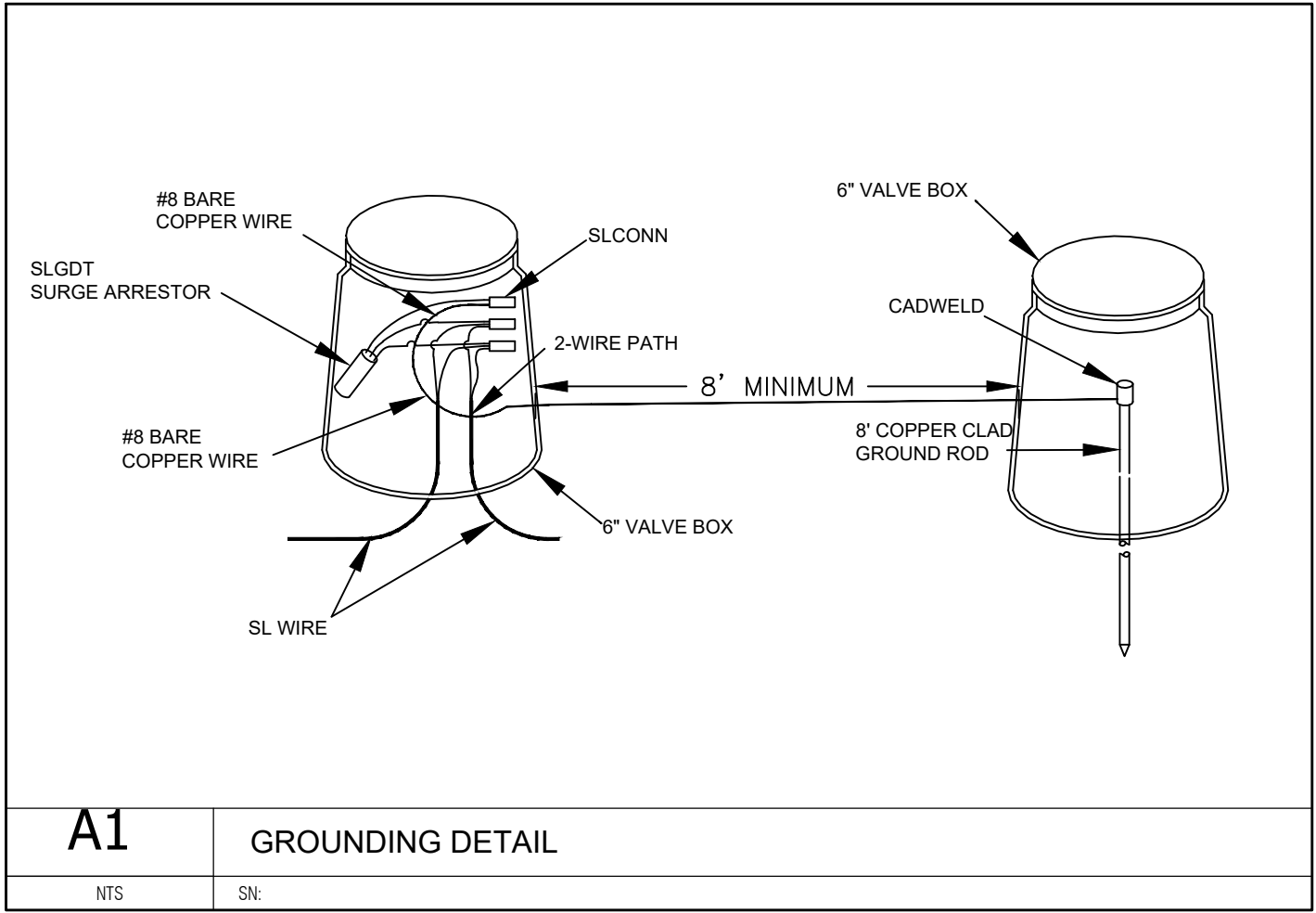
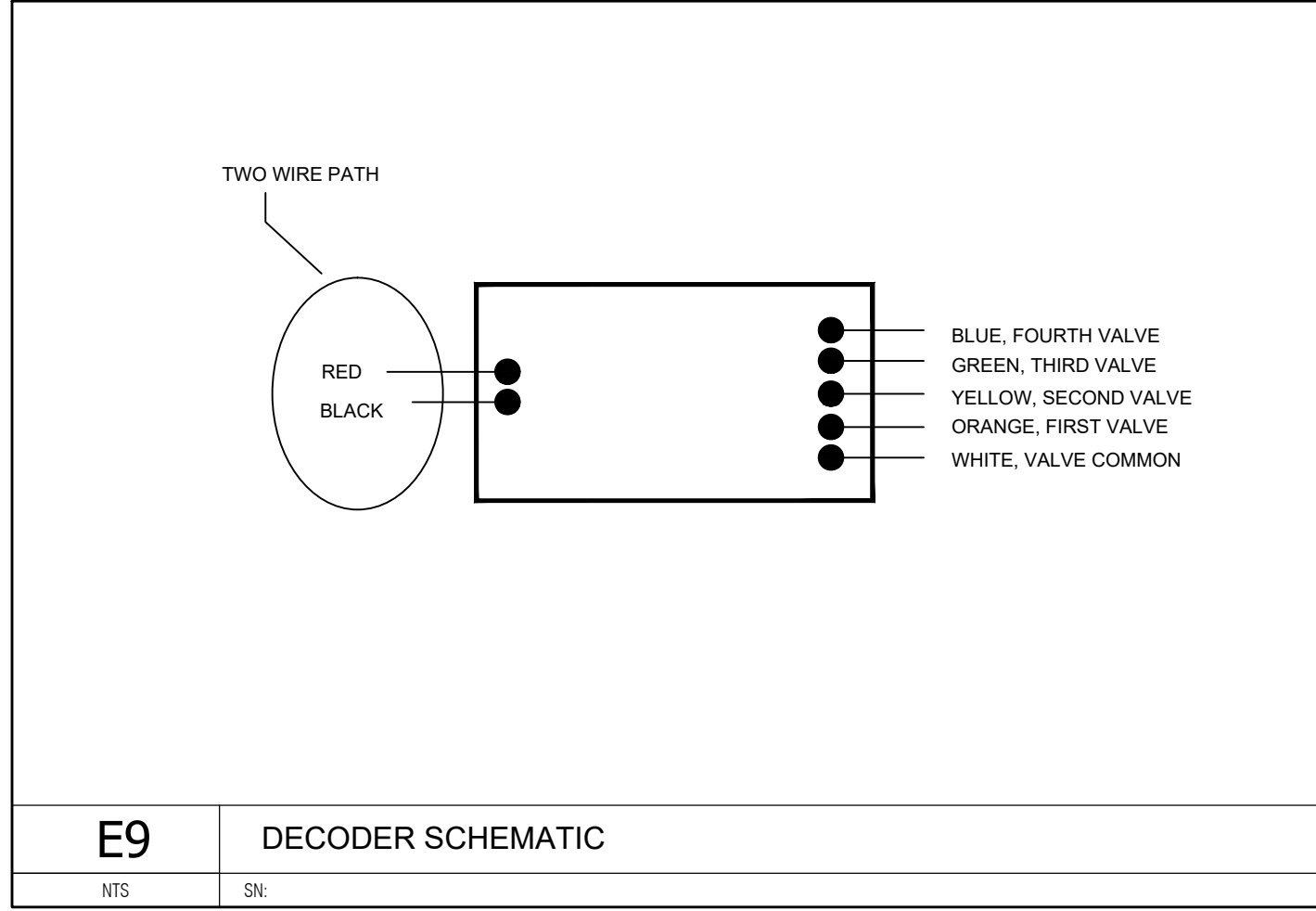
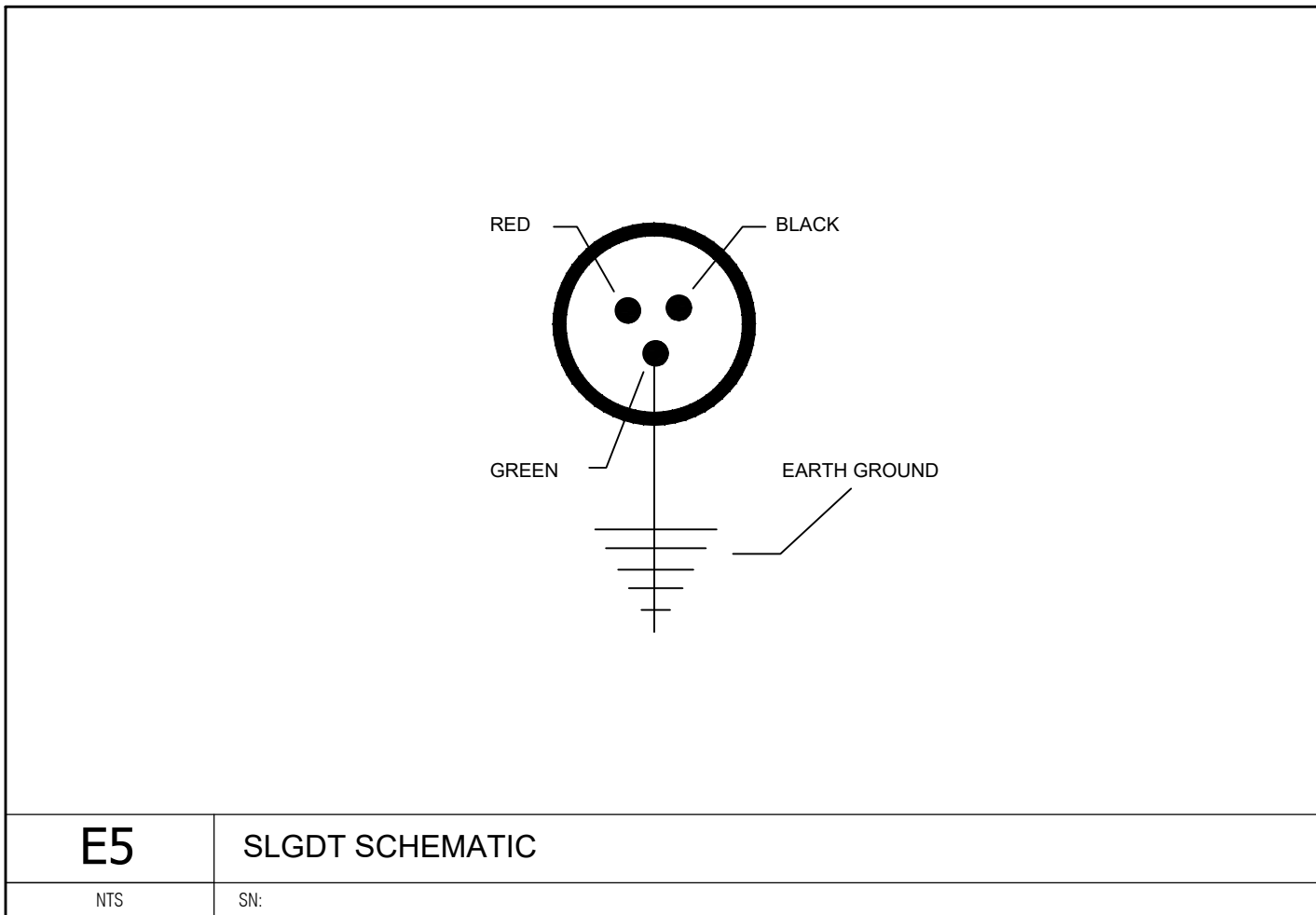
Two-wire notes:

- NOTES:
- Specific wire polarity is required. Maintain red and black wire polarity throughout installation.
 - Maintain independent wire path for each controller. No splicing or joining wire paths for multiple controls.
 - Up to three independent wire paths may be run for each SLM9648TW.
 - Maximum distance from SLDEC decoders to remote control valve not to exceed 100' (30.5m).
 - Each 2-wire run may be laid out in straight run, complete loop, star, or combination layouts as shown in details. Always terminate and ground each leg of the wire path using manufacturer's recommended grounding methods.
 - Use a continuous loop wire path whenever possible to provide the best communication and power path for the system. Looping provides a redundant path for the power and signal allowing the system to continue operation in the event the wire path is cut.
 - Mark each zone number on the SLDEC decoder. For multi-valve decoders record the zone in order of wire color code: orange, yellow, green, and blue.
 - Mark all zone numbers and decoder locations on the as-built plan for final submittal.
 - Secure all Red and Black 2-wire connections using only manufacturer's supplied SLCONN aluminum connectors and grease filled waterproof connectors.
 - All remote control valve wire splices shall be secured using an encapsulated, gel-filled waterproof wire connector suitable for direct burial and installed according to manufacturer's specifications.
 - Use SmartWire SLWIRE cable supplied by Weathermatic sprinkler division of Telsco Industries to comply with the following specifications:
 - Conductors must be soft drawn, annealed, solid copper conforming to ASTM 33.
 - Conductor insulation must be 4/64-inch thick polyvinyl chloride (PVC) conforming to UL #493.
 - The two insulated conductors laid in parallel and encased in a single outer jacket of 3/64-inch thick, high-density, sunlight resistant polyethylene conforming to ICEA S-61-402 and NEMA WC5, having a minimum wall thickness of .045-inch.
 - The two conductors must be color-coded: normally one conductor red and the other black. Both conductors shall be the same size.
 - The following brands meet the above specifications for direct burial cable: Weathermatic SLWIRE12; Weathermatic SLWIRE14.
 - Wire sizing and maximum distance shall not exceed manufacturer's recommendations to avoid voltage loss and insure proper operation of the system.
 - All 2-wire paths under hardscape surfaces shall be sleeved and include no splices of the 2-wire path within 5' of sleeves. Secure a 2' (0.6m) expansion loop in the two-wire path at each change of direction and entry and exit of sleeve locations during wire installation. Release the expansion loops prior to direct burial.
 - Install one SLGDT surge arrester at the following locations along the 2-wire path: within 25' (7.5m) of each controller, the farthest distance on the 2-wire path from the controller, every 600' along the wire path, at any independent branch termination greater than 50' (15m) from than main 2-wire path.
 - Connect each SLGDT to an 8' copper clad UL approved grounding round or other approved grounding method to obtain 12 ohms or less resistance. Use CADWELD TM permanent welded, low-resistance connection to assure best grounding performance. Consult ASIC specification 100-2002 for additional grounding specifications for appropriate for local soil conditions.
 - Use care in stripping all wire connections to avoid damage to the 2-wire shield and red and black wire path. Remove and discard any damaged 2-wire sections and repair using two SLCONN splice kits.
 - Use expansion coils on the red and black wires at each decoder installation. No expansion coils are necessary for the SLGDT.
 - Adhere to all local and national building and electrical codes.

Scale: Not to Scale

STRAIGHT LINE CONFIGURATION, I.E. WIRE DISTANCE TO FURTHEST DECODER, NO. LOOP:					
Wire Size (Guage)	#18	#16	#14	#12	
Wire Length (ft)	1,000	2,000	4,000	6,000	
Wire Length (m)	300	600	1,200	1,800	

LOOP CONFIGURATION, I.E. WIRE DISTANCE TO THE FURTHEST DECODER IN THE LOOP:					
Wire Size (Guage)	#18	#16	#14	#12	
Wire Length (ft)	2,000	4,000	10,000	10,000	
Wire Length (m)	600	1,200	3,000	3,000	

MAXIMUM TOTAL WIRE PATH LENGTH IS 10,000 FEET (3,000 M).					
E1	**Wire Sizing**				
NTS	SN:				


DATE SIGNED: 04/25/2025
PROJECT NO.: 02-0183



QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, JACKSON CO., MO 64063



PROTOTYPE: P-118
DIVISION: 02
VERSION: 001
DESIGNED BY: MCM
DRAWN BY: MCM
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
IRRIGATION DETAILS
SHEET 2

SHEET NUMBER:
L511

ORIGINAL ISSUE DATE: 02/24/2025