

PRELIMINARY DESIGN CHECK

VANDIVER ROAD SIDEWALK

TAP 2101514

EXISTING SURVEY LEGEND

LINWORK

SS	SANITARY SEWER	949	INTERMEDIATE CONTOUR
FW	SANITARY SEWER FORCE MAIN	950	INDEX CONTOUR
ST	STORM SEWER	PL	PROPERTY LINE
W	WATER	ROW	RIGHT OF WAY
E	UNDERGROUND ELECTRIC	---	SECTION LINE
OE	OVERHEAD ELECTRIC	ESMT	EASEMENT
C	UNDERGROUND COMMUNICATIONS	0-0	GUARD RAIL
OE	OVERHEAD COMMUNICATIONS	X	FIELD FENCE
T	UNDERGROUND TELEPHONE	0	CHAIN LINK FENCE
OT	OVERHEAD TELEPHONE	0	WOODEN FENCE
FO	UNDERGROUND FIBER OPTIC	+++++	SILT FENCE
OF	OVERHEAD FIBER OPTIC	AG	AGRICULTURE LINE
TV	UNDERGROUND TV/CABLE	~~~~~	EDGE OF TREES
OTV	OVERHEAD TV/CABLE	---	LIMITS OF DISTURBANCE
G	GAS	---	ROAD CENTERLINE
TR	TRAFFIC	---	WATERWAY FLOWLINE

UTILITY QUALITY LEVELS:

UTILITY QUALITY LEVELS ARE BASED ON THE CIASCE 38-02 STANDARD.

UTILITY QUALITY LEVEL A:

PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES

UTILITY QUALITY LEVEL B:

INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

UTILITY QUALITY LEVEL C:

INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:

INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

ADDITIONALLY IN THE CASE OF MULTIPLE OWNERS OF THE SAME UTILITY TYPE SAID UTILITIES WILL BE ABBREVIATED WITH AN OWNER NUMBER (1, 2, 3, ETC) AND REFERENCED IN THE IOWA ONE CALL UTILITY INFORMATION SECTION.

EXAMPLES:

C1(B)	UNDERGROUND COMMUNICATIONS- OWNER 1
C2(B)	UNDERGROUND COMMUNICATIONS- OWNER 2

TYPICAL HATCHING

SIDEWALK (MATERIAL NOTED)	PERMEABLE PAVER
CONCRETE	WATER
ASPHALT	BUILDING OUTLINE
RIP RAP	SAND
GRAVEL	MULCH LANDSCAPING
GRASS	ROCK LANDSCAPING

ABBREVIATIONS

CP	CONTROL POINT	CI	CAST IRON PIPE
BM	BENCHMARK	DI	DUCTILE IRON PIPE
ROW	RIGHT-OF-WAY	CMP	CORRUGATED METAL PIPE
GU	GUTTER	HDPE	HIGH-DENSITY POLYETHYLENE PIPE
CL	CENTERLINE	VCP	VITRIFIED CLAY PIPE
ASPH	ASPHALT	PVC	POLYVINYL CHLORIDE PIPE
PCC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
FL	FLOWLINE	UNK	UNKNOWN
RM	ELEVATION AT RM	DH	DRILL HOLE
W/	WITH	RBC	REBAR W/ PLASTIC CAP
TYP	TYPICAL	IPC	IRON PIPE W/ PLASTIC CAP
FND	FOUND	MON	MONUMENT
FF	FINISHED FLOOR	PK	PK NAIL

ONE CALL UTILITY INFORMATION:

LOCATE TICKET #S: 240440288, 240440288

CALL OR CLICK 3 DAYS BEFORE YOU DIG!

1-800-DIG-RITE OR 811

MISSOURI ONE CALL SYSTEM

www.mo1call.com

ELECTRIC

AC	AIR CONDITIONING UNIT
BB	BREAKER BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC PEDESTAL
HP	HEAT PUMP
GAS	
GM	GAS MARKER
GM	GAS METER
GV	GAS VALVE

GENERAL SITE FEATURES

B	BOLLARD
F	FLAGPOLE
FL	FLOOD LIGHT
G	GUY WIRE
MB	MAILBOX
S	SIGN- DOUBLE POST
S	SIGN- SINGLE POST
S	SOILBORE
S	STREET LIGHT
S	UTILITY POLE
S	UTILITY POLE W/STREET LIGHT
S	UNKNOWN MANHOLE

MONUMENTS

B	BENCHMARK
B	BENCHMARK (TEMPORARY)
S	CONTROL POINT
S	CUT X FOUND
S	CUT X SET
S	MONUMENT FOUND (FIRST TYPE)
S	MONUMENT FOUND (SECOND TYPE)
S	MONUMENT SET (FIRST TYPE)
S	MONUMENT SET (SECOND TYPE)
S	SECTION CORNER FOUND
S	SECTION CORNER SET
S	T POST
S	WOODEN POST

RAILROAD

M	MAINLINE MILE MARKER
P	POINT OF SWITCH
R	RAILROAD SIGNAL
S	SANITARY SEWER CLEANOUT
S	SANITARY SEWER MANHOLE
S	SEPTIC TANK LID

UTILITY WARNING

THE UTILITIES DEPICTED ON THIS DOCUMENT HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

STORM SEWER

B	BEEHIVE INLET
D	DOUBLE CURB INLET
D	SINGLE CURB INLET
D	AREA DRAINAGE INLET
F	FLARED END SECTION
S	STORM MANHOLE
S	STAND PIPE
S	STORM SEWER CLEANOUT
S	SIDE OPENING AREA INLET

TELECOMMUNICATIONS

H	COMPOSITE HANDHOLE
F	FIBER OPTIC MARKER
S	SATELLITE DISH
T	TELEPHONE MANHOLE
T	TELEPHONE PEDESTAL
T	TV/CABLE BOX
T	TV/CABLE MANHOLE

TRAFFIC

S	PEDESTRIAL SIGNAL
S	SIGNAL CONTROL CABINET
S	TRAFFIC BOX
S	TRAFFIC HANDHOLE
S	TRAFFIC MANHOLE
S	TRAFFIC SIGNAL
S	TRAFFIC SIGNAL W/STREET LIGHT

VEGETATION

S	CONIFEROUS TREE
S	DECIDUOUS TREE
S	SHRUB
S	TREE STUMP

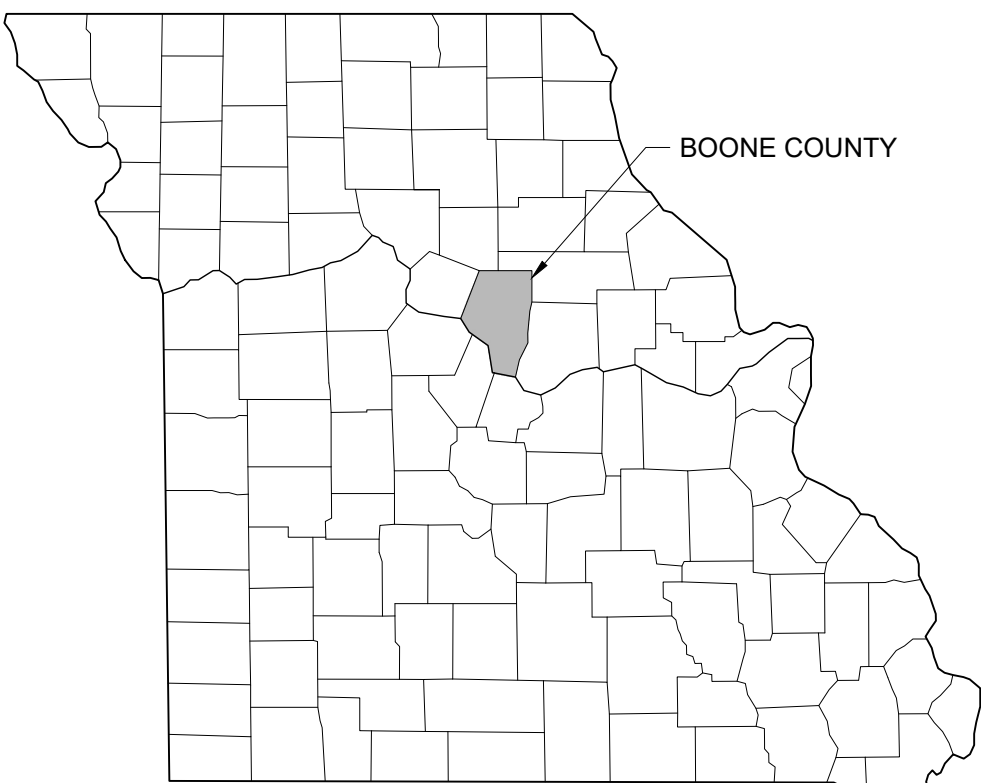
WATER

S	CURB STOP
S	FIRE HYDRANT
S	IRRIGATION VALVE
S	MONITORING WELL
S	POST INDICATOR VALVE
S	SPRINKLER BOX
S	WATER MANHOLE
S	WATER MARKER
S	WATER METER
S	WATER SPIGOT
S	WATER VALVE
S	WATER VALVE MANHOLE
S	YARD HYDRANT

DEMOLITION

X	REMOVE TREE
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#	TITLE
1	PRELIMINARY DESIGN-COVER
2	PRELIMINARY DESIGN-PLAN 1
3	PRELIMINARY DESIGN-PLAN 2
4	PRELIMINARY DESIGN-PLAN 3
5	PRELIMINARY DESIGN-DETAILS 1
6	PRELIMINARY DESIGN-DETAILS 2



KEY MAP

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH "CITY OF COLUMBIA STREET, STORM DRAIN AND SANITARY SEWER SPECIFICATIONS AND STANDARDS" (CURRENT EDITION).
- KNOWN UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST.
- ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.
- ALL DISTURBED EARTH AREAS SHALL BE RESTORED AS PER TS-___ SEEDING AND TS-___ EROSION CONTROL.
- REMOVE ALL PAVEMENT SURFACES, INLETS, PIPES AND SIDEWALKS WITHIN THE CONSTRUCTION LIMITS AS PER TS-___, EXCEPT THOSE NOTED TO REMAIN. THE FIELD INSPECTOR SHALL VERIFY REMOVALS.
- REMOVAL OF TREES AND BUSHES SHALL BE VERIFIED BY FIELD INSPECTORS. EXERCISE CAUTION WHEN WORKING NEAR THE CONSTRUCTION LIMITS TO MINIMIZE DISTURBANCE TO ADJACENT TREES AND SHRUBS THAT ARE NOT BEING REMOVED BY CONSTRUCTION ACTIVITIES.
- NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT. ASPHALTIC "COLD MIX" SHALL BE USED AS A TEMPORARY PATCH OVERNIGHT. TEMPORARY PATCHING SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
- ALL BARRICADES, SIGNS, OTHER TRAFFIC CONTROL DEVICES AND PLACEMENT THEREOF SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIGNING SHOWN AS MINIMUM REQUIREMENTS FOR ADJACENT ROADWAYS SHALL BE INSTALLED PRIOR TO IMPROVEMENTS. CONTRACTOR RESPONSIBLE FOR ADDITIONAL SIGNING, MARKING, OR Delineators FOR SITE SPECIFIC CONSTRUCTION PHASING TO COMPLY WITH MUTCD GUIDELINES.

UTILITY CONTACTS

ELECTRIC	NATURAL GAS
CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	AMEREN MISSOURI 2001 MAGUIRE BLVD. COLUMBIA, MISSOURI 65201 573-876-3028
ELECTRIC	SEWER
BOONE ELECTRIC COOPERATIVE 1413 RANGELINE STREET COLUMBIA, MO 65201 573-449-4181	CITY OF COLUMBIA, SEWER UTILITY 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489
WATER	TELECOMMUNICATION
CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489
WATER	TELECOMMUNICATION
PUBLIC WATER SUPPLY DISTRICT #9 391 E. BROADWAY COLUMBIA, MISSOURI 65201 573-474-9521	SOCKET TELECOM 2703 CLARK LANE COLUMBIA, MISSOURI 65202 573-817-0000
TELECOMMUNICATION	TELECOMMUNICATION
AT&T TRANSMISSION 800-252-1113	BRIGHTSPEED 833-363-2360



2001 W. Broadway
Columbia, MO 65203
P 573-814-1568
F 573-814-1128

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Cedar Rapids, IA | Clive, IA
Corahville, IA | Council Bluffs, IA
Fort Dodge, IA | Sioux City, IA
Columbia, MO | Macon, MO
North Kansas City, MO | Springfield, MO

Lenexa, KS
Portsmouth, NH

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans and Specifications.

MISSOURI CERTIFICATE OF
AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

**** PRELIMINARY ****
NOT FOR
CONSTRUCTION

Ryan Fuller
MO PE-2016001250
November 5, 2024

REVISIONS

PROJECT INFO
2023002046

ENGINEER
JHT

DRAWN BY
SMH

CHECKED BY
RAF

VANDIVER ROAD SIDEWALK
COLUMBIA, MISSOURI
TAP 2101514

DRAWING NO.

1



Mission

Provide safe, sustainable
Infrastructure that promotes
positive communities.

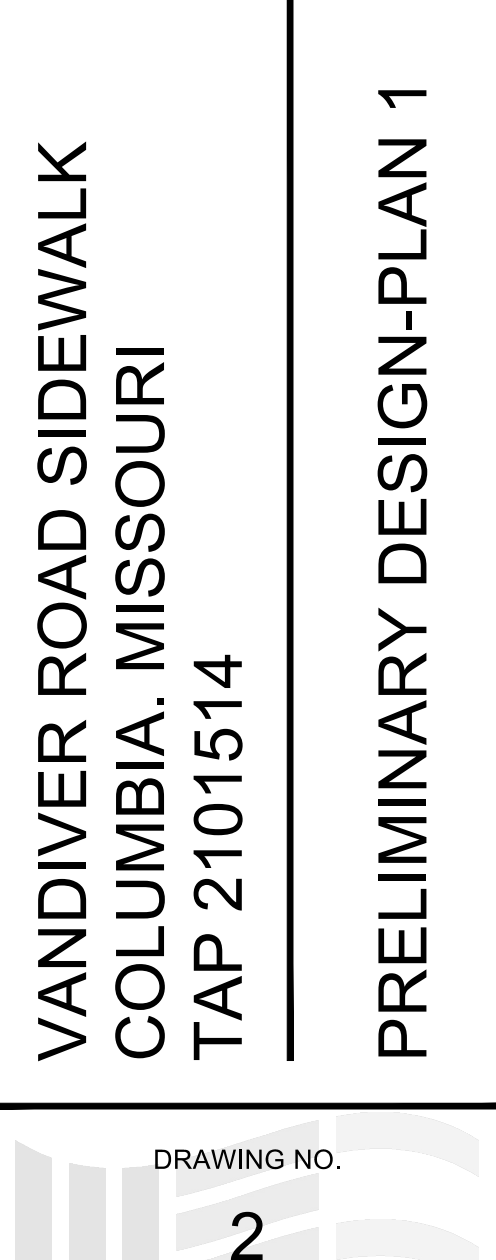
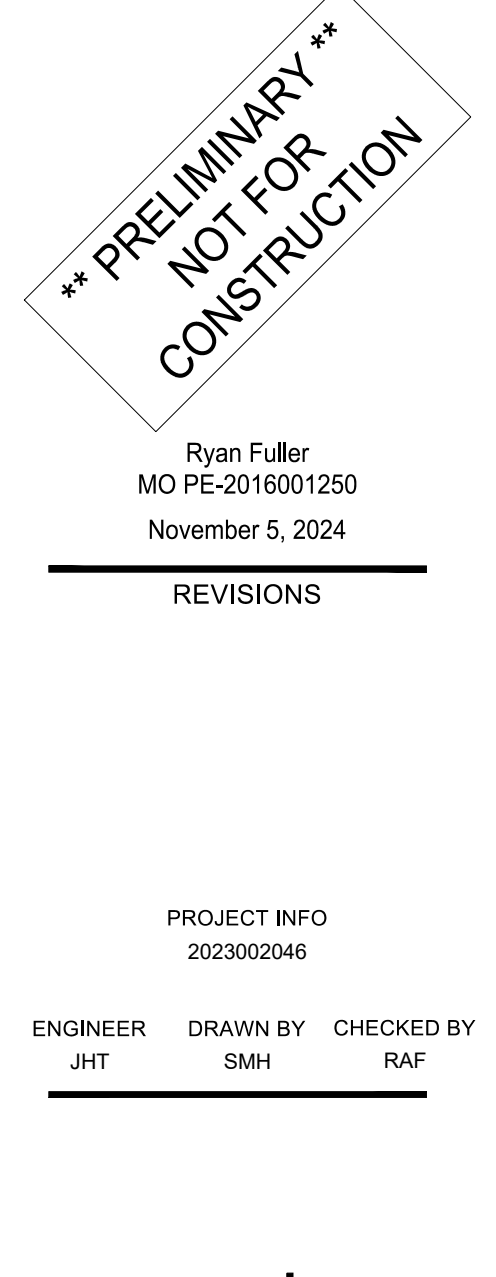
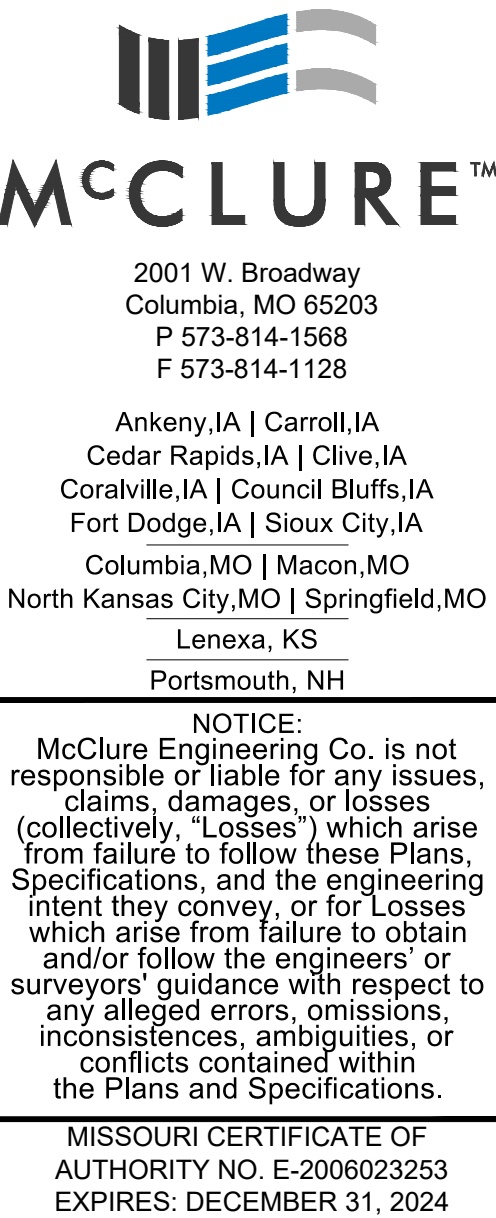
701 East Broadway
P.O. Box 6015
Columbia, MO 65205
(573) 875-2489

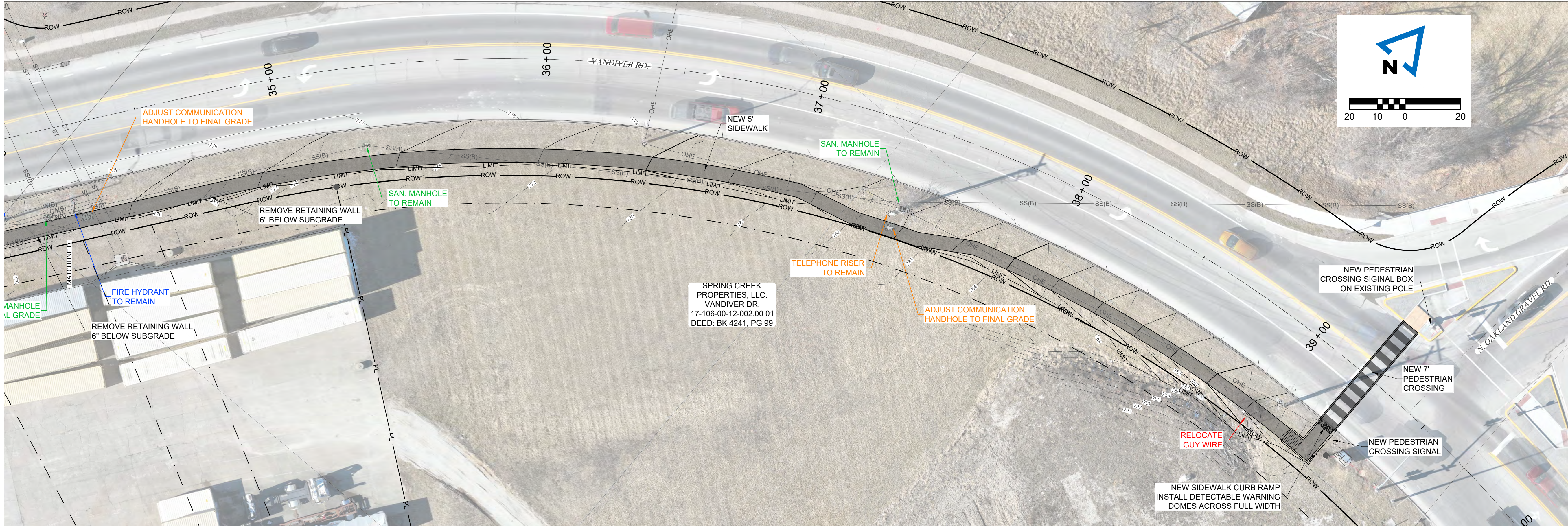
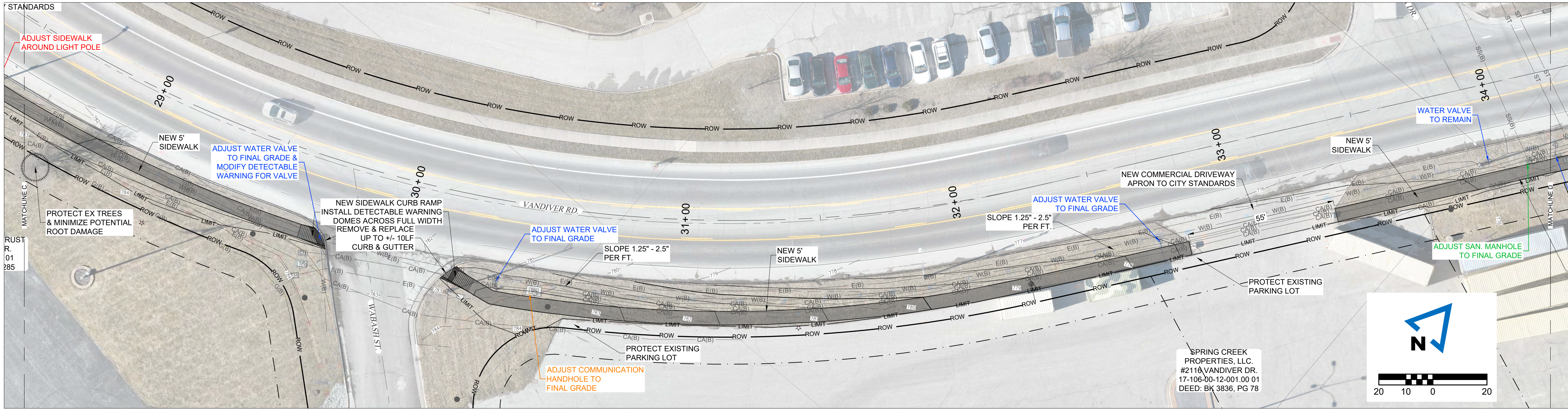
Shane Steven Crech
Registered Professional
Engineer
PE-2007011061

Approved By

Director of Public Works

Date





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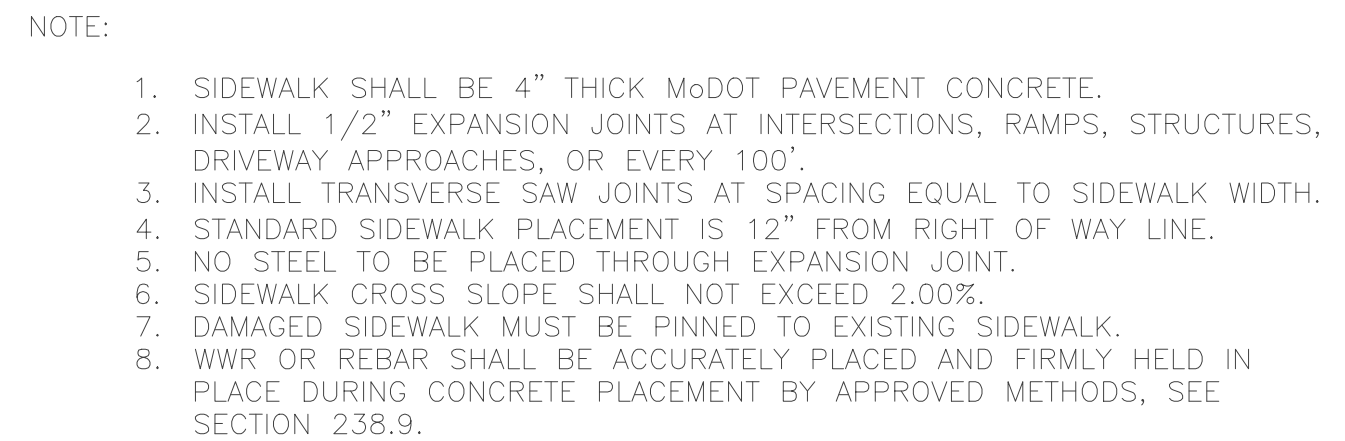
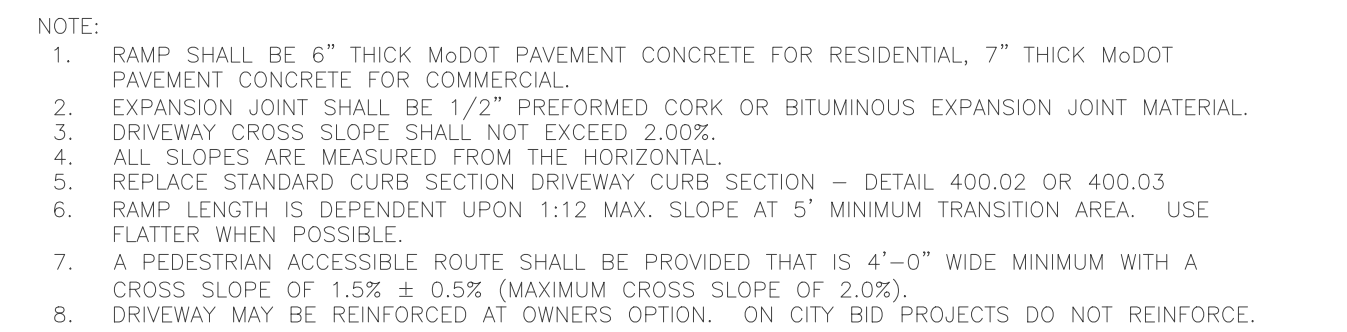
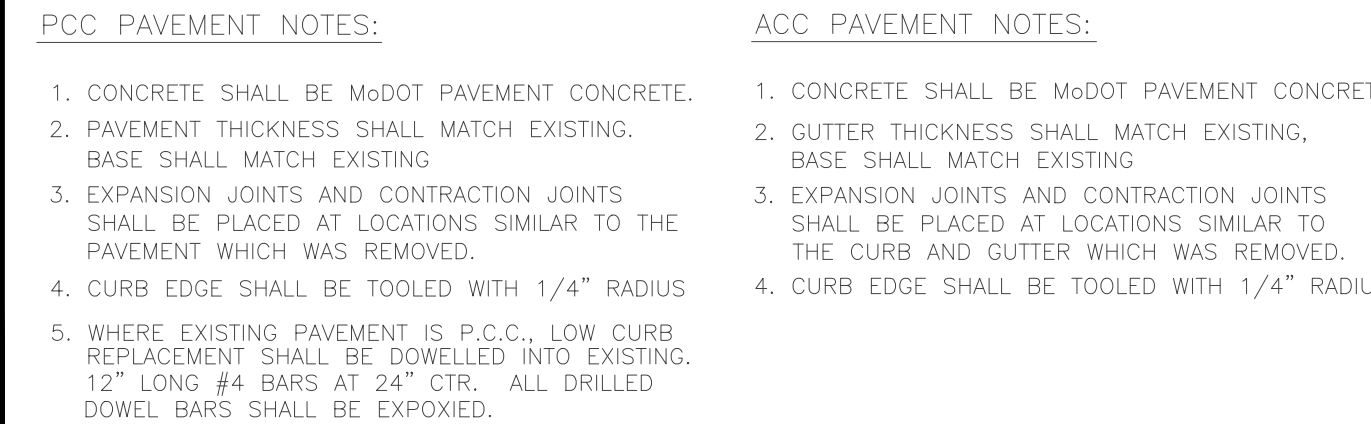
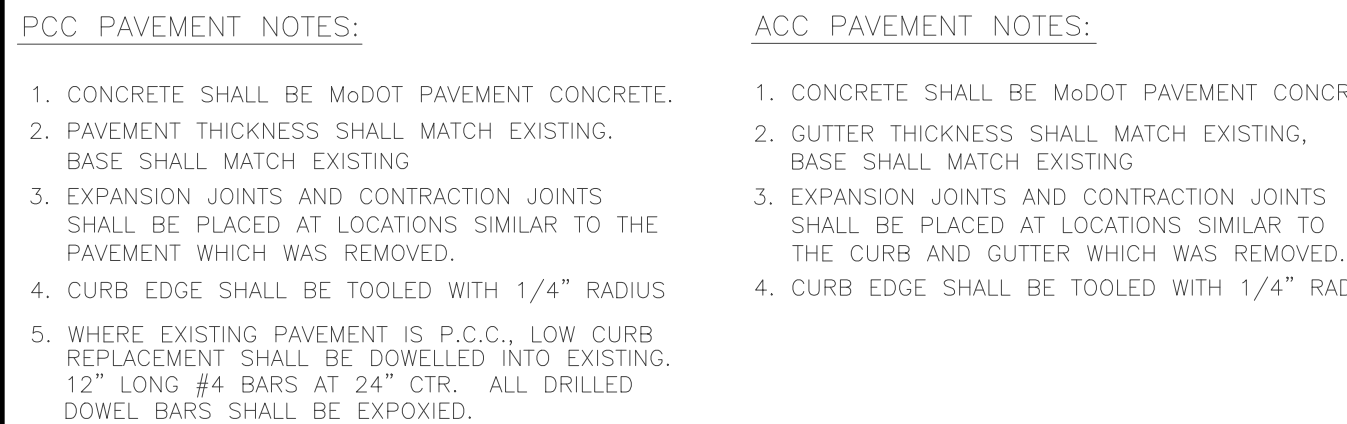
PROJECT INFO
2023002046



ENGINEER	DRAWN BY	CHECKED BY
JHT	SMH	RAF

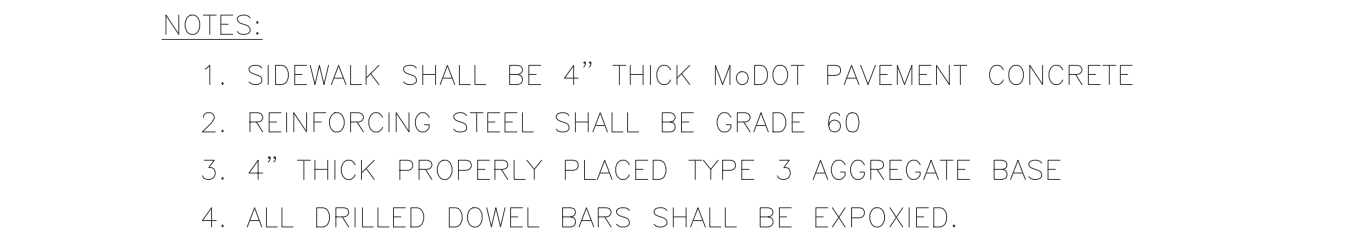
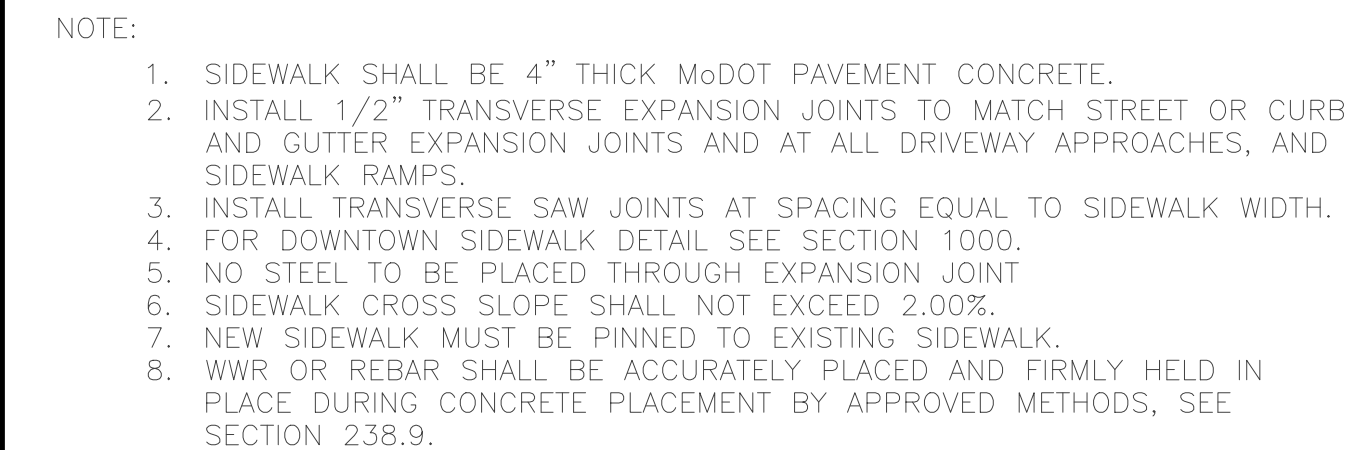
VANDIVER ROAD SIDEWALK
COLUMBIA, MISSOURI
TAP 2101514
PRELIMINARY DESIGN-PLAN 2


DRAWING NO.
3



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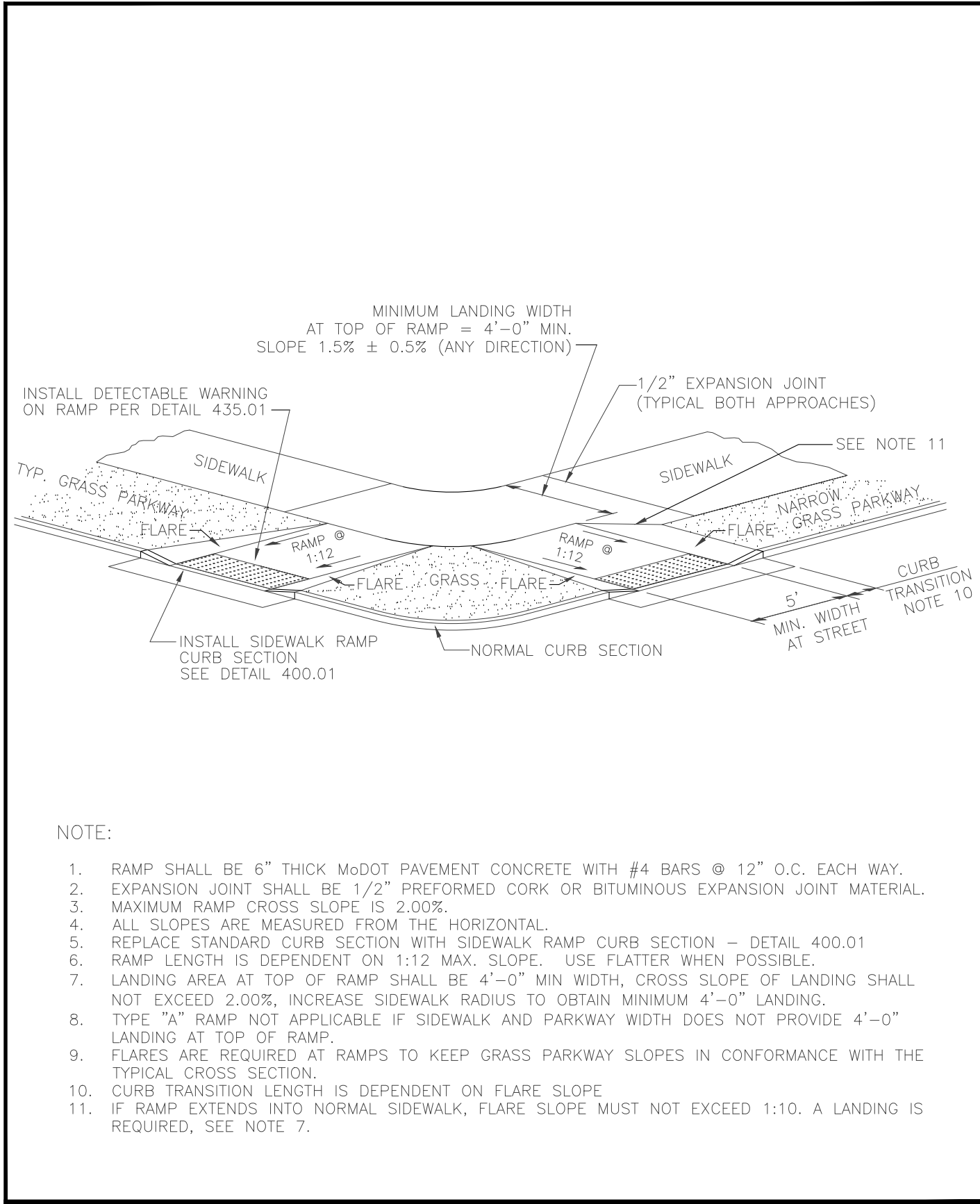




 Approved _____ Revisions _____ _____ _____	10/01/16 Date	 City of Columbia Public Works Department	CURB DETAILS (Residential Driveway)	400.02
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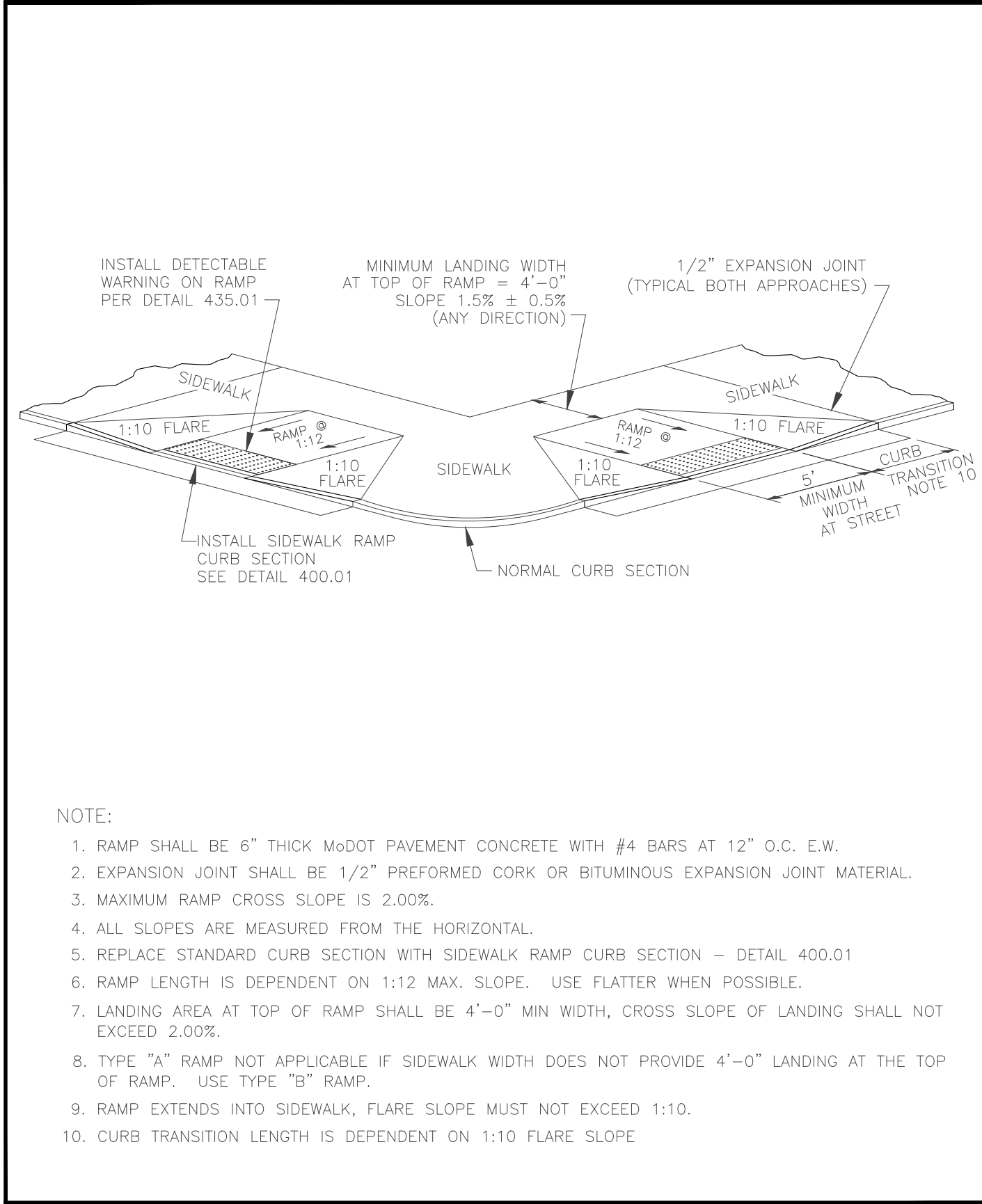



 Approved _____ Revisions _____ _____ _____	07/01/20 Date	 City of Columbia Public Works Department	SIDEWALK AT BACK OF CURB	420.02
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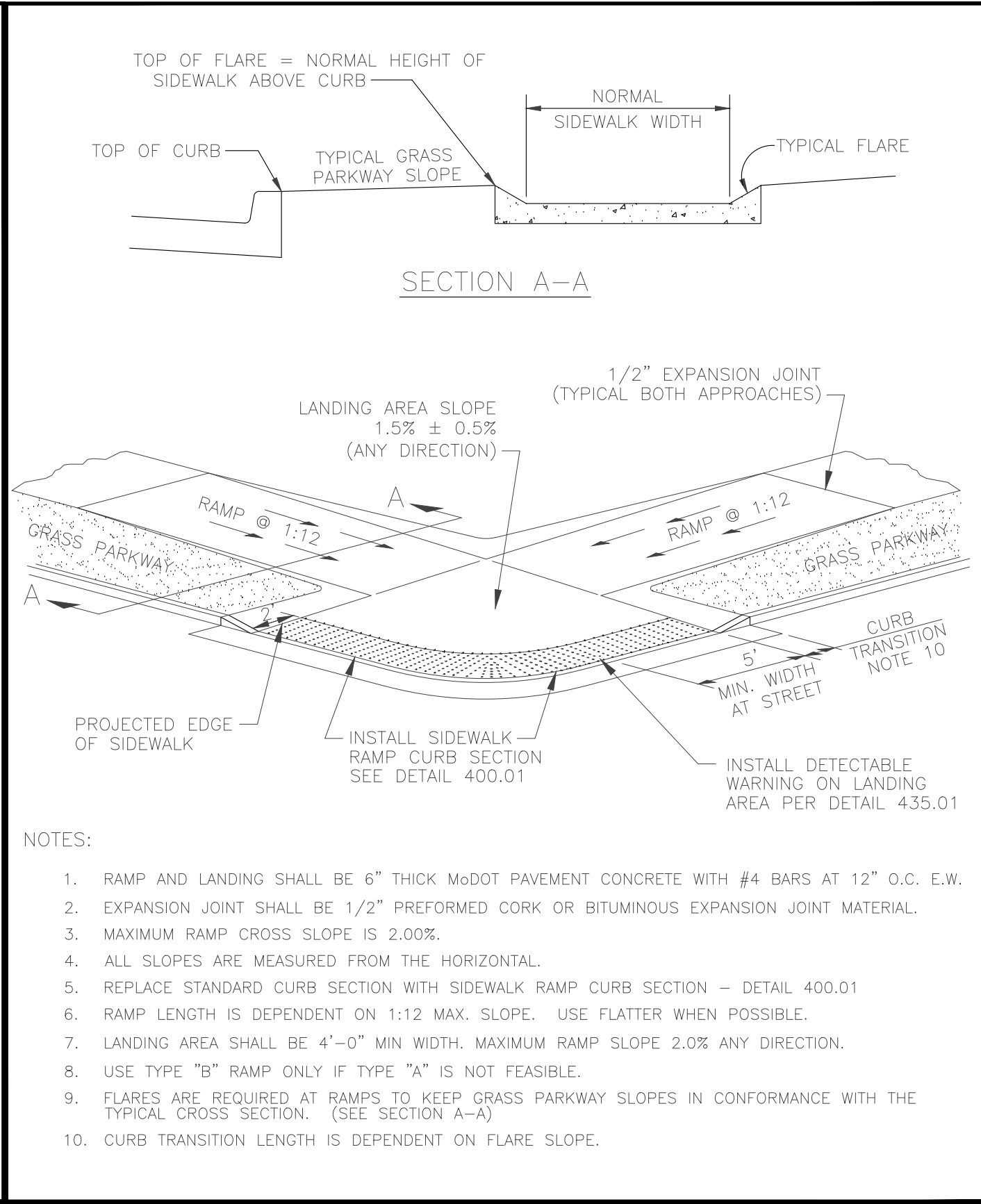
 Approved _____ Revisions _____	10/01/16 Date	 City of Columbia Public Works Department	SIDEWALK REINFORCEMENT AT DRAINAGE STRUCTURE	420.03
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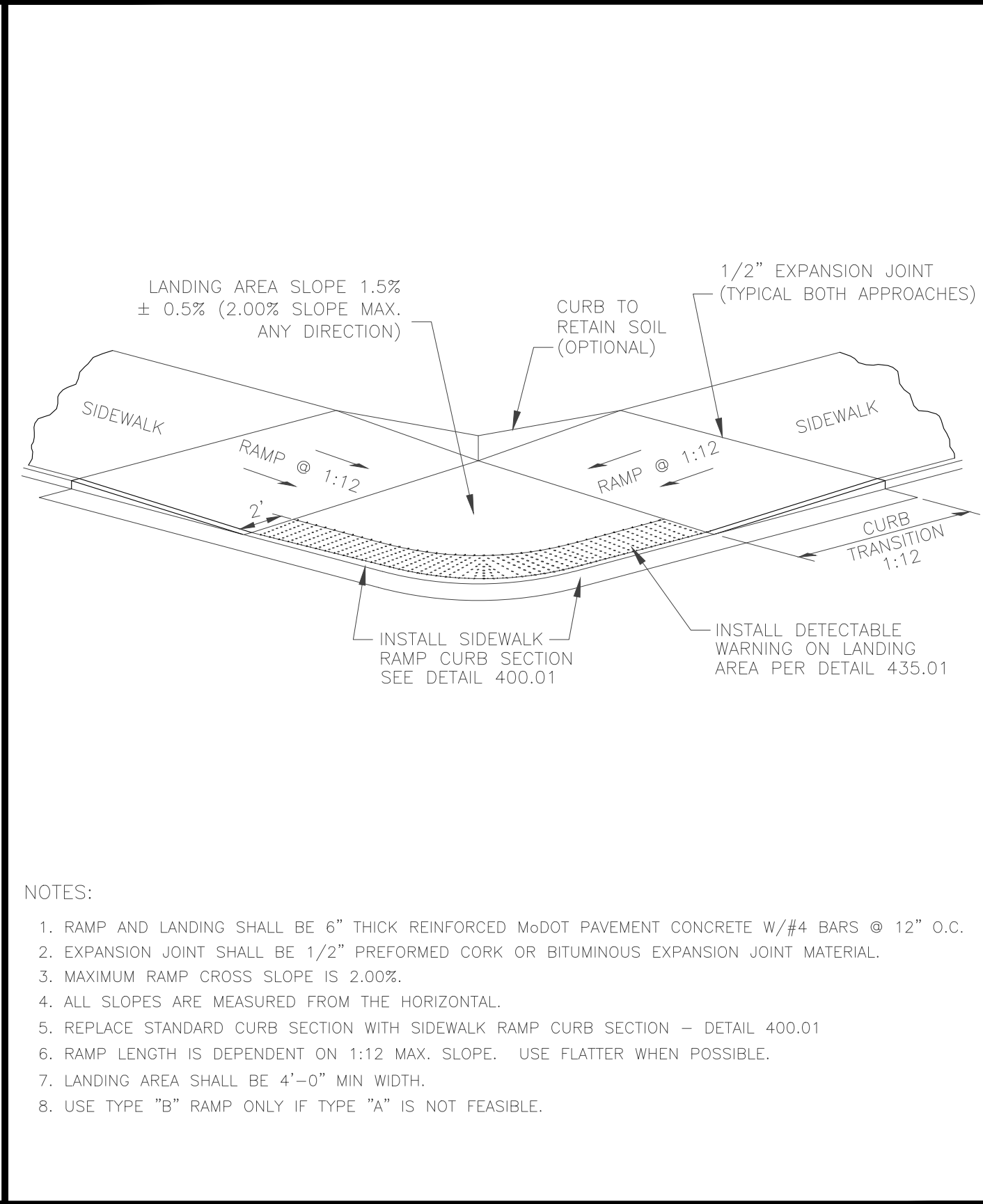
	07/01/20 Date		SIDEWALK RAMP Sidewalk with Grass Parkway (Type A)	430.01
Approved	Revisions			





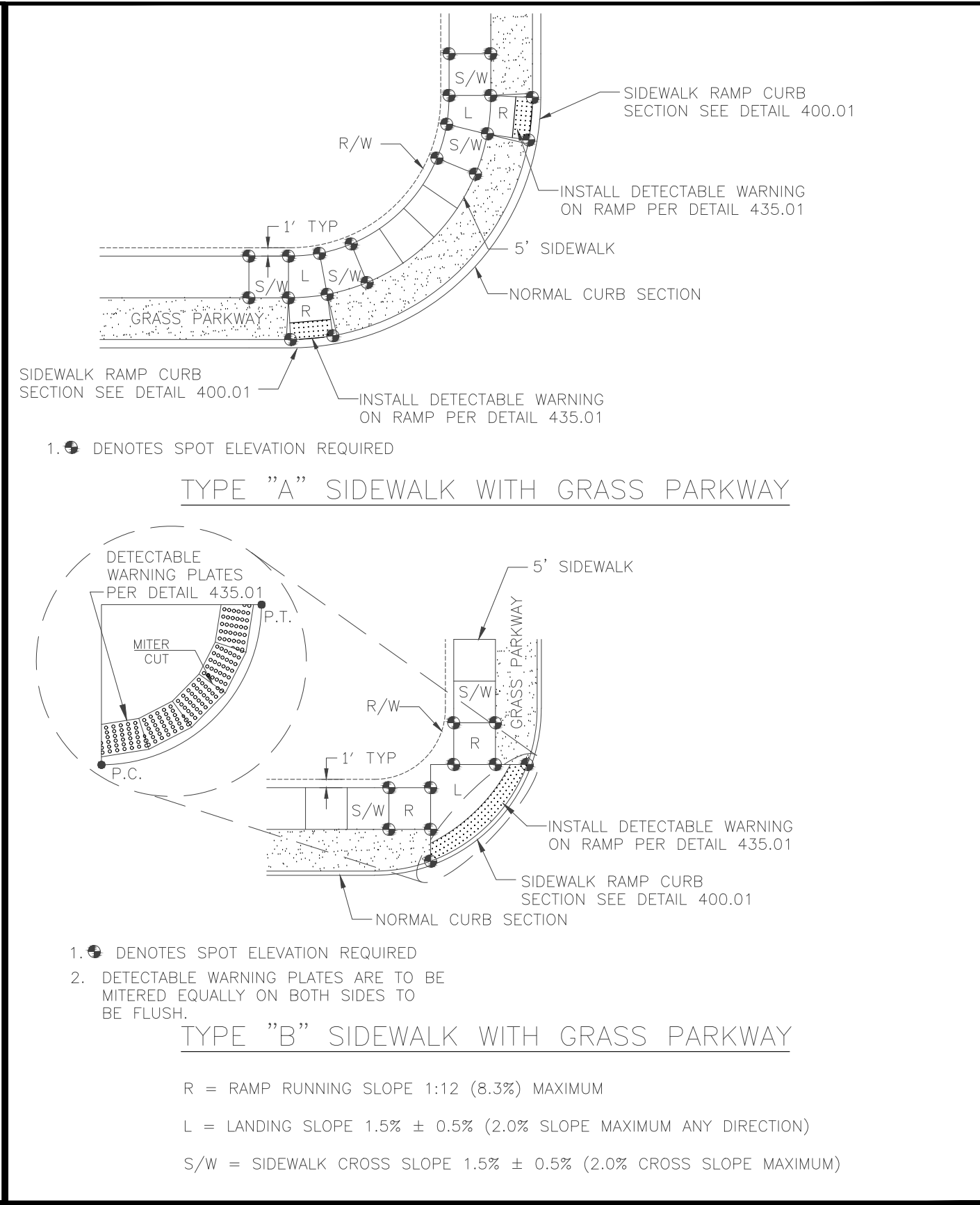
	07/01/20 Date		SIDEWALK RAMP Sidewalk at Back of Curb (Type A)	432.01
Approved	Revisions			





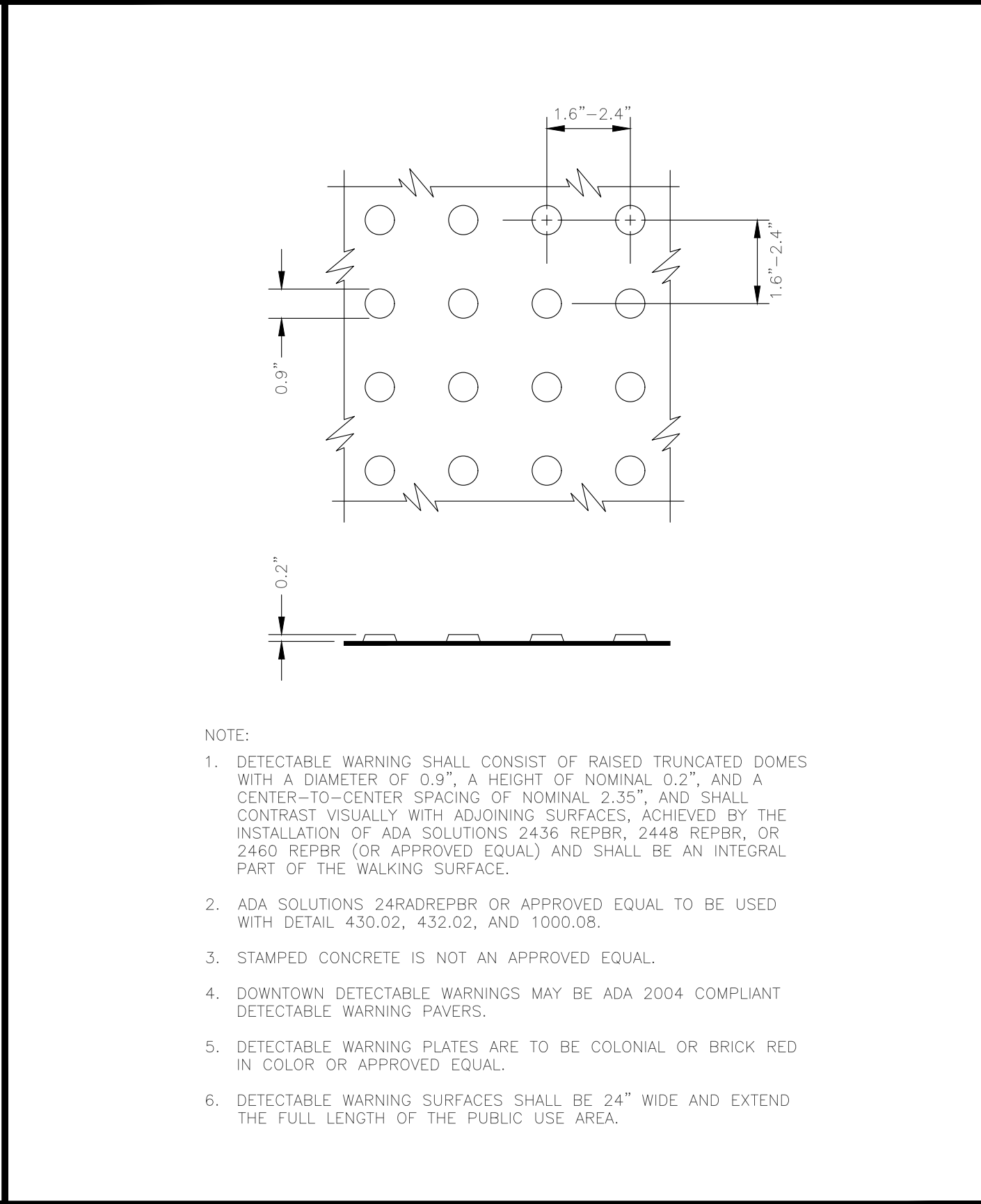
	07/01/20 Date		SIDEWALK RAMP Sidewalk with Grass Parkway (Type B)	430.02
Approved	Revisions			





	07/01/20 Date		SIDEWALK RAMP Sidewalk at Back of Curb (Type B)	432.02
Approved	Revisions			



	07/01/20 Date		SIDEWALK RAMP PLAN VIEW Sidewalk with Grass Parkway (Type A & B)	430.03
Approved	Revisions			



	10/01/16 Date		DETECTABLE WARNING	435.01
Approved	Revisions			



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NOT FOR CONSTRUCTION

Ryan Fuller
MO PE-2016001250
November 5, 2024

REVISIONS

PROJECT INFO
2023002046

ENGINEER: JHT, DRAWN BY: SMH, CHECKED BY: RAF

VANDIVER ROAD SIDEWALK
COLUMBIA, MISSOURI
TAP 2101514

PRELIMINARY DESIGN-DETAILS 2

DRAWING NO.
5