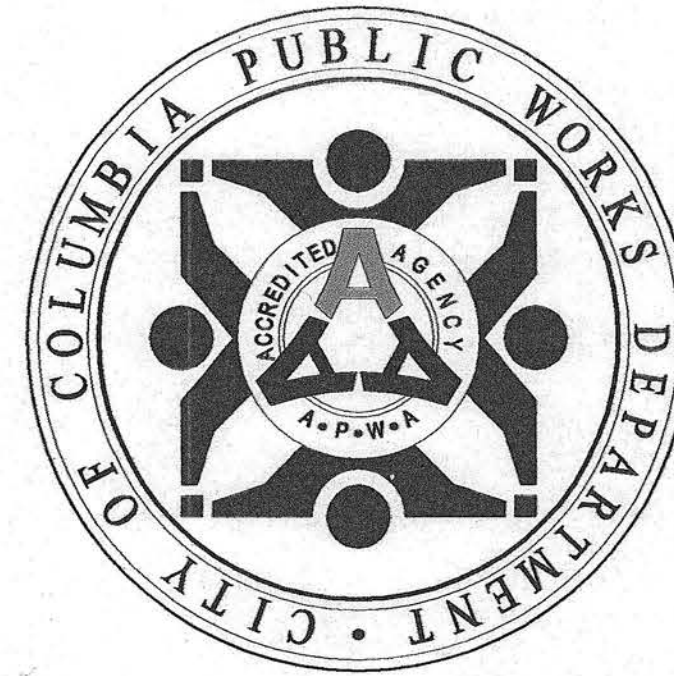


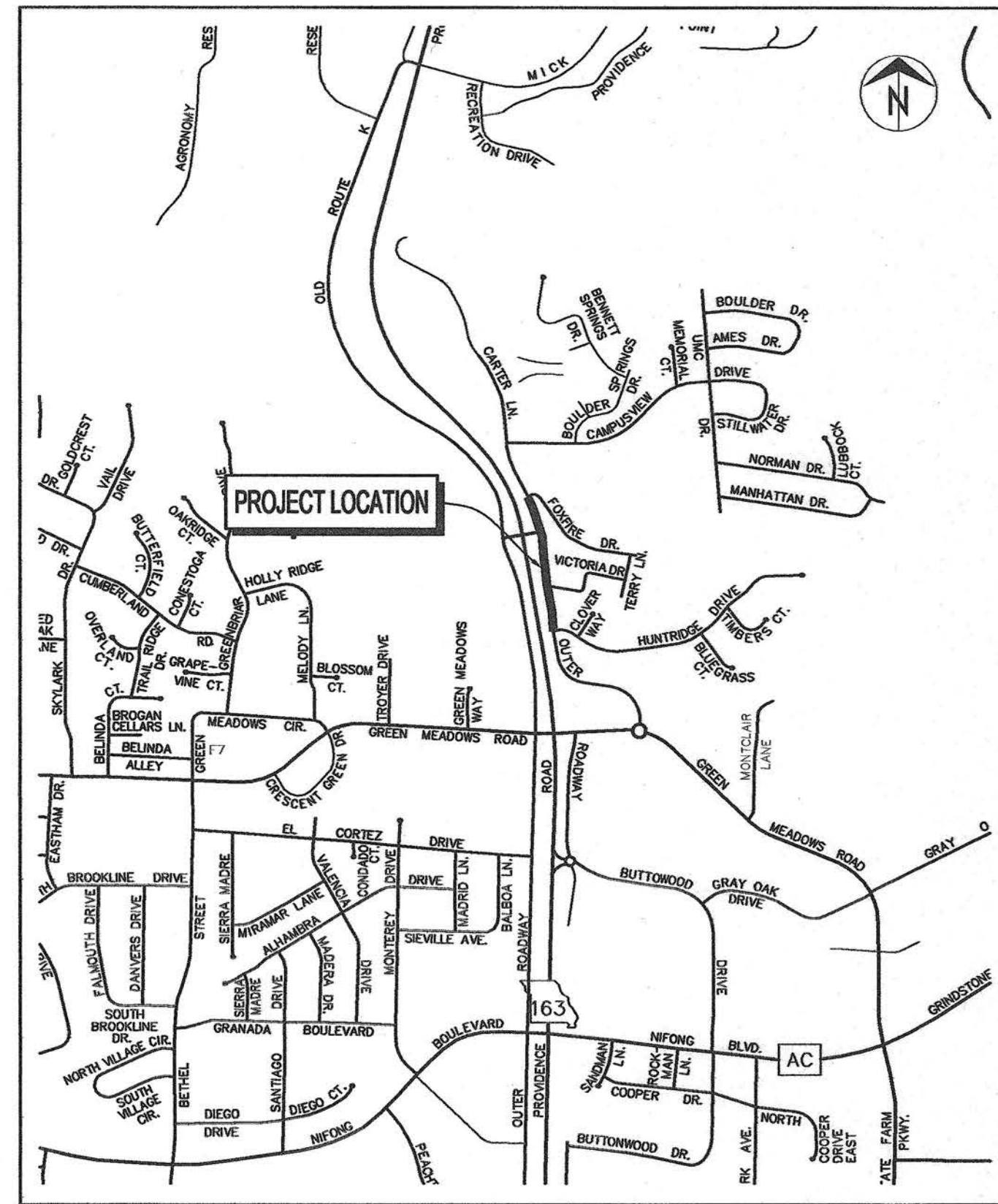
# City of Columbia, Missouri

## Department of Public Works



# CARTER LANE SIDEWALK

## TAP-2100(524)



**LOCATION MAP**  
Not to Scale

### GENERAL NOTES

- 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 removal of driveway pavements should be verified by field engineer.
- 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.
- Erosion Control shall be installed per plans and TS-2 & 3 prior to any construction activities.
- Remove all pavement surfaces, inlets, pipes and sidewalks within the construction limits as per TS-5, except those noted to remain. The field inspector shall verify removal.
- Removal of trees and bushes shall be verified by field inspectors. Install tree protection fence per plans and 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 outside of the "road closed" area. Asphaltic "cold mix" shall be used as a temporary patch overnight. Temporary patching shall be considered incidental to the work.

### UTILITY COMPANIES:

**TELEPHONE**  
CenturyLink  
625 Cherry Street  
Columbia, MO 65205  
573-886-3500

**NATURAL GAS**  
Ameren Missouri  
2001 Maguire Boulevard  
Columbia, MO 65201  
573-876-3063

**CABLE TELEVISION**  
Mediacom  
901 N. College Avenue  
Columbia, MO 65201  
573-443-1536 ext 354

**LOCATES**  
Missouri One Call Inc.  
1022 B Northeast Drive  
Jefferson City, MO 65109  
1-800-344-7483

**WATER**  
City of Columbia  
P.O. Box 6015  
City Utilities  
Columbia, MO 65205  
573-874-2489

**ELECTRIC**  
City of Columbia  
P.O. Box 6015  
City Utilities  
Columbia, MO 65205  
573-874-2489

**SANITARY SEWER**  
City of Columbia  
P.O. Box 6015  
City Utilities  
Columbia, MO 65205  
573-874-2489

### TRAVERSE POINTS

#	NORTHING	EASTING	ELEVATION	DESCRIPTION
102	1123673.8655	1687441.9333	726.1958	FIP NC
103	1123639.7960	1687448.1206	728.0289	FIP NC
105	1123484.2170	1687475.4565	735.3033	FIP UR
106	1123427.4838	1687495.7412	739.7430	FIP UR
107	1123025.3116	1687562.2820	742.7363	FIR NC
192	1124367.9706	1687259.9684	731.1077	PK SW
193	1124578.9026	1687211.5266	730.3393	PK SW

### LEGEND OF SYMBOLS

POWER POLE	
TELEPHONE POLE	
GUY ANCHOR	
GUY POLE	
STREET LIGHT POLE	
YARD LIGHT (SOLAR)	
WATER METER	
GAS METER	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
PIPE BREAKLINE	
SANITARY MANHOLE	
SANITARY CLEANOUT	
SANITARY LATERAL CLEANOUT	
TRAVERSE POINT	
MoDOT ROW MARKER	
BENCHMARK	
SIGN	
MAIL BOX	
PROPERTY IRON	
BUSH	
STUMP	
TREE REMOVAL	
TREE	
TREE LINE	
SILT FENCE/TREE PROTECT	
EXISTING PUBLIC SANITARY SEWER	
EXISTING SANITARY SEWER LATERAL	
EXISTING SANITARY SEWER TO BE ABANDONED	
PROPOSED SEWER MAIN AND LATERALS	
FENCE	
CABLE TELEVISION	
TELEPHONE	
ELECTRIC	
TELEPHONE OR ELECTRIC MANHOLE	
WATER MAIN	
GAS MAIN	
FIBER OPTIC	
FLOW LINE	
PROPERTY LINE	
LOT LINE	
EXISTING RIGHT OF WAY LINE	
EXISTING EASEMENT	
PERMANANT UTILITY EASEMENT	
PROPOSED SANITARY SEWER EASEMENT	
PROPOSED PERMANENT DRAINAGE EASEMENT	
PROPOSED RIGHT OF WAY	
TEMPORARY ACCESS EASEMENT	
TEMPORARY CONSTRUCTION EASEMENT	
GRADING LIMIT	

<b>City of Columbia, Missouri</b> Department of Public Works			
No.	Date	By	Revision
File No. 18-01-12	Des. S.C.B.	Sheet	
Scale: None	Dwn. C.N.S.	1 of 14	
Date: 10/23/2018	Chk. A.A.A.		
<h2>CARTER LANE SIDEWALK</h2>			
 Approved By Director of Public Works		10/24/18 Date	

MOBILIZATION
1 LUMP SUM

CONSTRUCTION STAKING
1 LUMP SUM

SEEDING & MULCHING
1 LUMP SUM

NOTE:  
NORTHING/EASTING AND/OR CAD FILE OF THE IMPROVEMENTS WILL BE PROVIDED TO THE SUCCESSFUL BIDDER.

TRAFFIC CONTROL
1 LUMP SUM

REMOVE/RELOCATE SIGNS/MAIL BOXES
1 LUMP SUM

REMOVAL/REPLACEMENT UNSUITABLE MATERIALS
50 CY

REMOVALS
1 LUMP SUM

LINEAR CLASS 1 GRADING			
SHEET NO.	STATION TO STATION	LOCATION	QUANTITY LF
3	STA: 0+00 TO STA: 0+46	RIGHT	46
3	STA: 1+08 TO STA: 3+84	RIGHT	276
3 & 4	STA: 4+30 TO STA: 5+55	RIGHT	125
4	STA: 5+95 TO STA: 10+75	RIGHT	480
		TOTAL	927

REMOVAL OF PAVEMENT			
SHEET NO.	STATION TO STATION	LOCATION	PAVEMENT REMOVAL SY
3	STA: 3+40 TO STA: 3+63	LEFT	3
3	STA: 3+77 TO STA: 4+38	RIGHT	69
3	STA: 5+12 TO STA: 5+35	LEFT	3
3 & 4	STA: 5+52 TO STA: 5+98	RIGHT	46
4	STA: 8+08 TO STA: 8+31	LEFT	3
4	STA: 10+62 TO STA: 10+75	RIGHT	8
		TOTAL	132

CONCRETE PAVEMENT						
SHEET NO.	STATION TO STATION	LOCATION	4" PPC SIDEWALK 5' WIDE SF	4" PPC SIDEWALK W/INTEGRAL CURB 6' WIDE SF	6" SIDEWALK RAMP/LANDING SF	DETECTABLE WARNING SF
3	STA: 0+00 TO STA: 0+46	RIGHT	148		43	18
3	STA: 1+08 TO STA: 3+84	RIGHT		1314	123	44
3 & 4	STA: 4+30 TO STA: 5+56	RIGHT		474	108	32
4	STA: 5+95 TO STA: 10+75	RIGHT		2665	91	26
		TOTAL	148	4453	365	120

FULL DEPTH SAW CUT			
SHEET NO.	STATION TO STATION	LOCATION	SAW CUT LF
3 & 4	STA: 1+21 TO STA: 10+75	LEFT	960
3	STA: 3+92 TO STA: 4+22	RIGHT	30
3 & 4	STA: 5+58 TO STA: 5+94	RIGHT	30
		TOTAL	1026

CONCRETE DRIVEWAY				
SHEET NO.	STATION TO STATION	LOCATION	6" CONCRETE PAVEMENT SY	4" TYPE 3 AGGREGATE SY
3	STA: 3+77 TO STA: 4+38	RIGHT	69	69
3 & 4	STA: 5+52 TO STA: 5+98	RIGHT	46	46
		TOTAL	115	115

STORM DRAINAGE						
SHEET NO.	STATION TO STATION	LOCATION	18" CMP LF	18" CMP FES EA	SIDEWALK DRAINAGE OUTLET LF	TYPE 1 RIP RAP W/GEOTEXTILE SY
3	STA: 0+21	CENTER	15	1		
3	STA: 3+55	RIGHT			23	5
3	STA: 5+26	RIGHT			23	5
4	STA: 8+16	RIGHT			23	5
		TOTAL	15	1	69	15

EROSION CONTROL				
SHEET NO.	STATION TO STATION	LOCATION	SILT FENCE LF	STRAW WATTLES EA
3	STA: 4+30 TO STA: 5+56	RIGHT	126	
3	STA: 1+92, 2+97, 3+68	RIGHT		3
		TOTAL	126	3

Revision	
By	
Date	
No.	

**CARTER LANE SIDEWALK**  
SUMMARY OF QUANTITIES

City of Columbia, Missouri  
Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212  
File No. TAP-2100(524)  
Scale: NONE  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. AAA

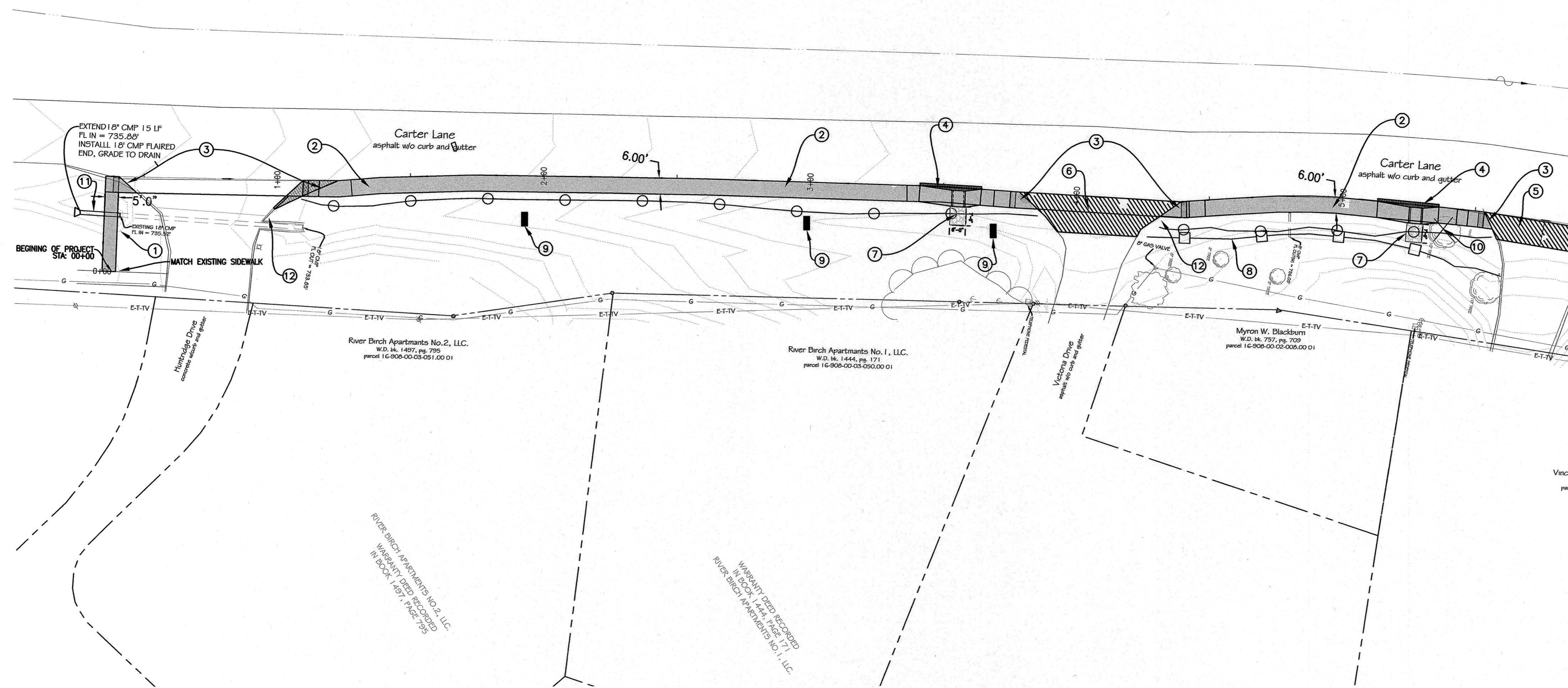
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2015 Orthophoto Source: Boone County Assessor



- ① CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1, SHEET 8.
- ② CONSTRUCT 6' WIDE 4" THICK CONCRETE SIDEWALK WITH INTEGRAL CURB PER DETAIL 2, SHEET 8.
- ③ INSTALL DETECTABLE WARNING AND RAMP OR LANDING SEE DETAILS 3 & 5, SHEET 8 AND LAYOUT ON SHEET 10.
- ④ CONSTRUCT STORMWATER INLET PER DETAIL 1, SHEET 9.
- ⑤ REMOVE PAVEMENT AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER WARPING PLAN.
- ⑥ REMOVE PAVEMENT AND RECONSTRUCT STREET CROSSING PER WARPING PLAN
- ⑦ TYPE 1 RIP RAP WITH GEOTEXTILE (SECTION 260.12) 6'X7'X2'.
- ⑧ INSTALL SILT FENCE.
- ⑨ INSTALL DITCH PROTECTION(STRAW WATTLES).
- ⑩ REMOVE TREE.
- ⑪ EXTEND 18" CMP 15' AT 2.42% SLOPE. INSTALL 18" CMP FLAIRED END SECTION. GRADE TO DRAIN.
- ⑫ DO NOT DESTURB EXISTING STREET SIGN.

Revision	
By	
Date	
No.	



# CARTER LANE SIDEWALK

Plan & Profile - Sta. 0+00 to Sta. 5+50

City of Columbia, Missouri  
 Department of Public Works



David Allen Nichols  
 Registered Professional Engineer  
 E-24212

File No. TAP-2100(524)  
 Scale: 1" = 20'  
 Date: 10/23/2018  
 Des. A.N.H.  
 Dwn. C.N.S.  
 Chk. A.A.A.

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RIVER BIRCH APARTMENTS NO. 2, LLC.  
 WARRANTY DEED RECORDED  
 IN BOOK 1497, PAGE 795

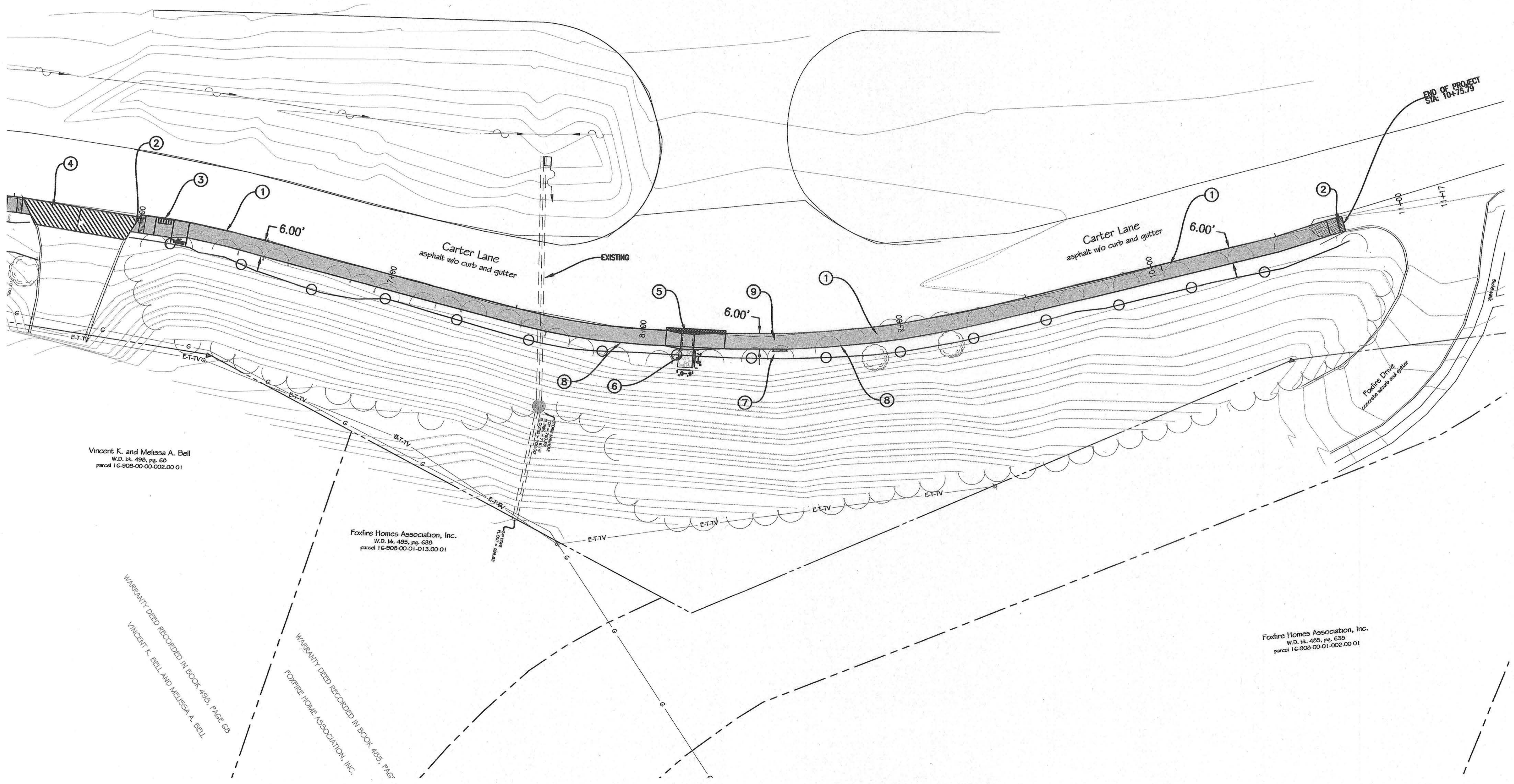
RIVER BIRCH APARTMENTS NO. 1, LLC.  
 WARRANTY DEED RECORDED  
 IN BOOK 1444, PAGE 171



- ① CONSTRUCT 6' WIDE 4" THICK CONCRETE SIDEWALK WITH INTEGRAL CURB PER DETAIL 2, SHEET 8.
- ② INSTALL CURB RAMP WITH DETECTABLE WARNING SEE DETAILS 3 & 5, SHEET 8 AND LAYOUT ON SHEET 10.
- ③ REMOVE AND RELOCATE MAIL BOXES PER DETAIL 4, SHEET 8 AND LAYOUT SHEET 10.
- ④ REMOVE PAVEMENT AND RECONSTRUCT STREET CROSSING PER WARPING PLAN.
- ⑤ CONSTRUCT STORMWATER INLET PER DETAIL 1, SHEET 9.
- ⑥ TYPE 1 RIP RAP WITH GEOTEXTILE (SECTION 260.12) 6'X7'X2'.
- ⑦ MINIMIZE TREE DISTURBANCE. EXISTING GUARDRAIL TO REMAIN IN PLACE.
- ⑧ REMOVE AND RELOCATE EXISTING STOP SIGN.
- ⑨ REMOVE AND RELOCATE EXISTING STREET NAME SIGN.

Revision	By	Date	No.

Providence Rd.



**CARTER LANE SIDEWALK**  
Plan & Profile - Sta. 0+00 to Sta. 5+50

City of Columbia, Missouri  
Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212  
File No. TAP-2100(524)  
Scale: 1" = 20'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

Sheet  
4 of 14

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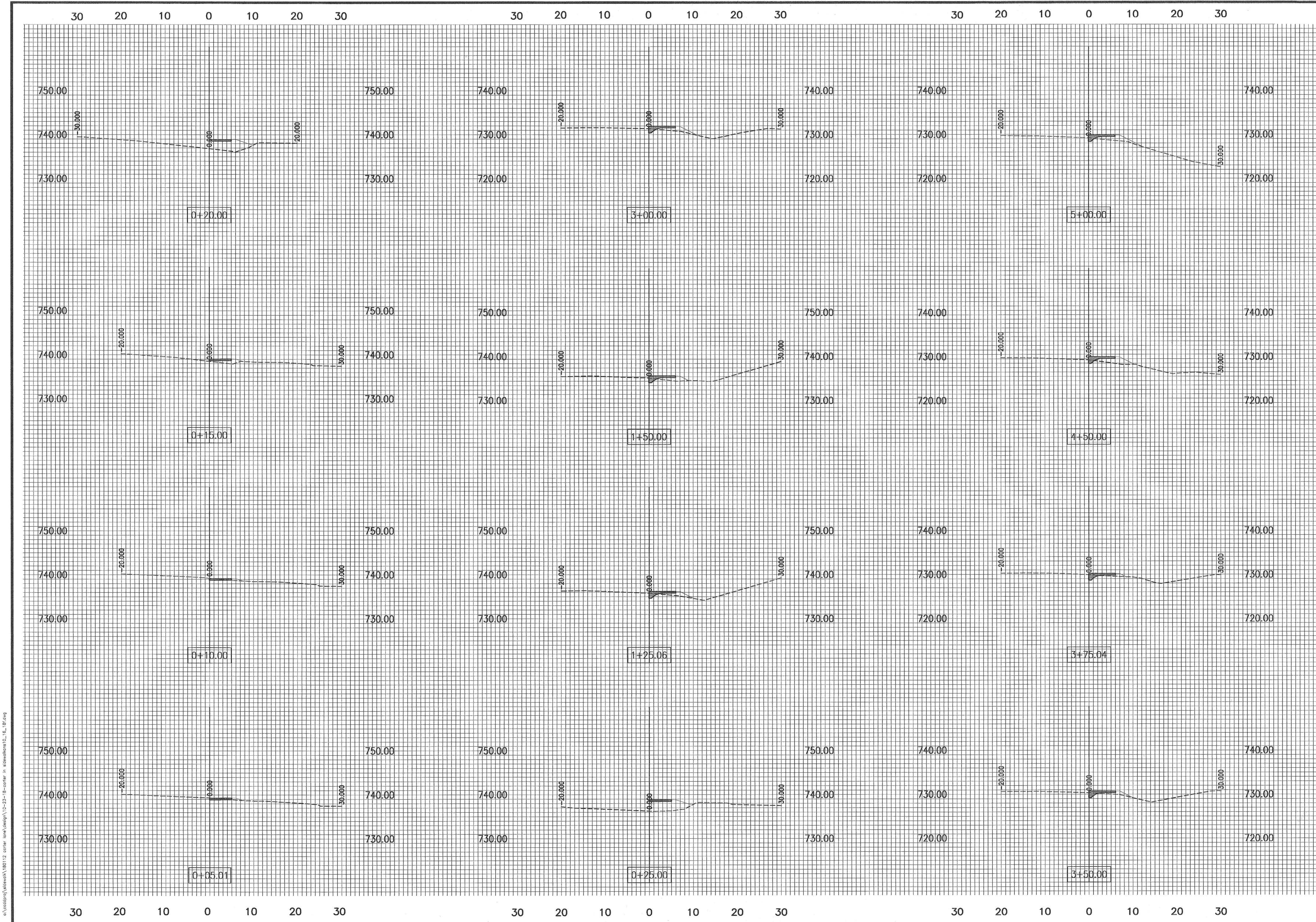
Vincent K. and Melissa A. Bell  
W.D. bk. 496, pg. 68  
parcel 16-908-00-00-002.00 01

Foxfire Homes Association, Inc.  
W.D. bk. 485, pg. 638  
parcel 16-908-00-01-013.00 01

Foxfire Homes Association, Inc.  
W.D. bk. 485, pg. 638  
parcel 16-908-00-01-002.00 01

WARRANTY DEED RECORDED IN BOOK 490, PAGE 68  
VINCENT K. BELL AND MELISSA A. BELL

WARRANTY DEED RECORDED IN BOOK 485, PAGE 638  
FOXFIRE HOME ASSOCIATION, INC.



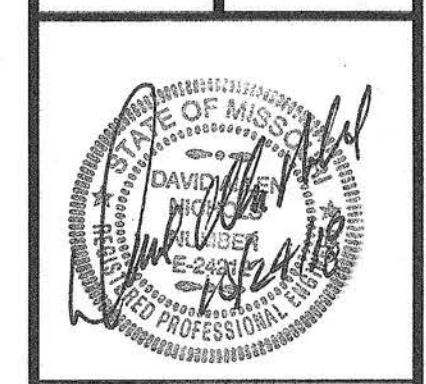
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2011 Orthophoto Source: Boone County Assessor

Revision	By	Date	No.

**CARTER LANE SIDEWALK**  
ALIGNMENT A CROSS SECTION VIEWS

City of Columbia, Missouri  
Department of Public Works

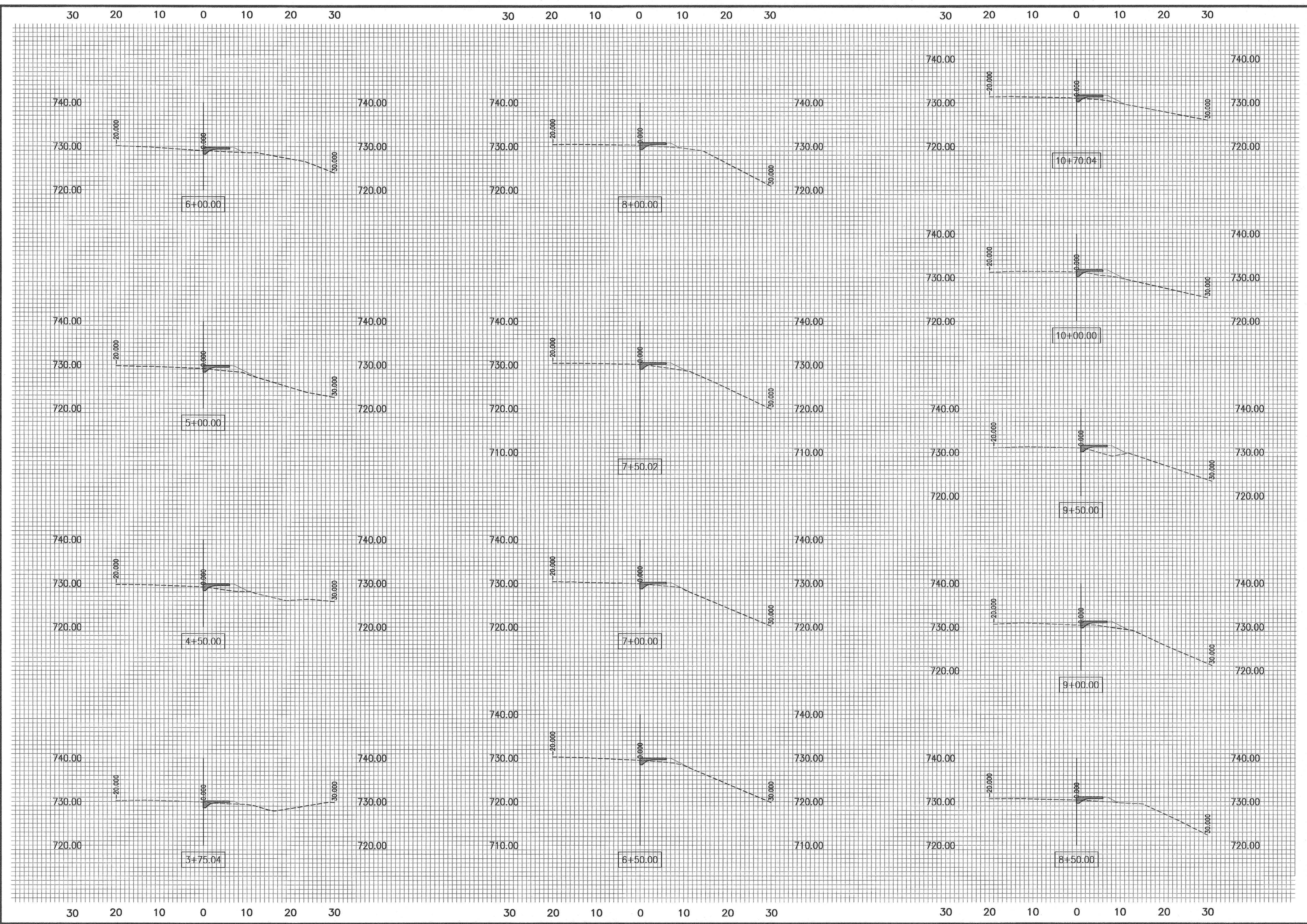


David Allen Nichols  
Registered Professional Engineer  
E-24212

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Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

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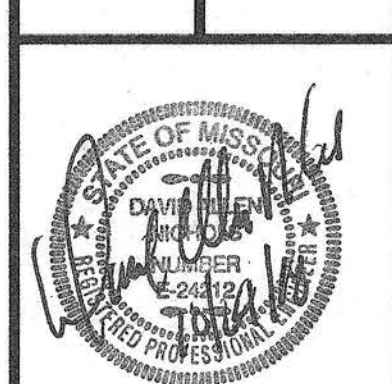
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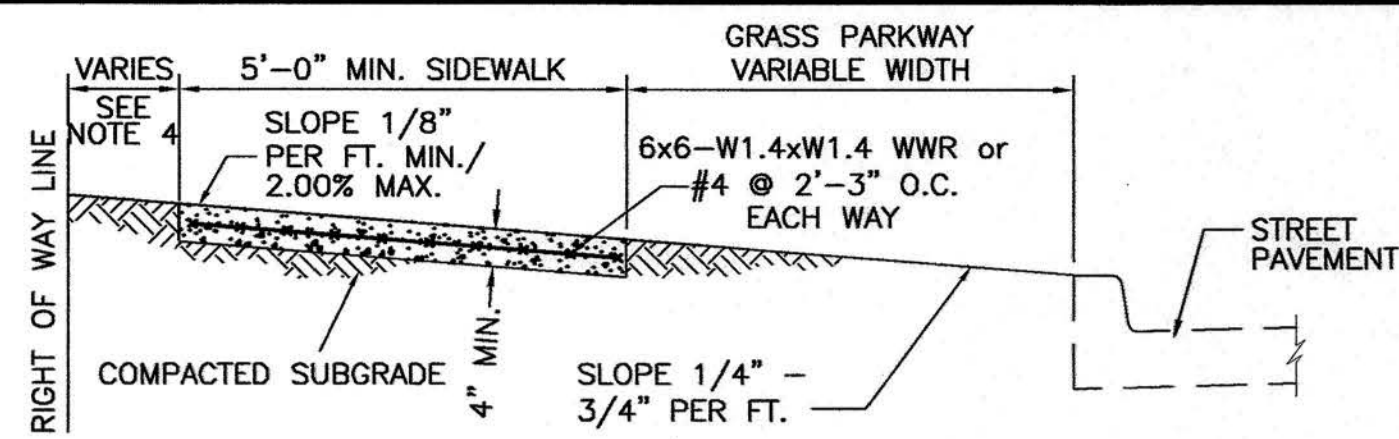
No.	Date	By	Revision

**CARTER LANE SIDEWALK**  
ALIGNMENT A CROSS SECTION VIEWS

City of Columbia, Missouri  
Department of Public Works



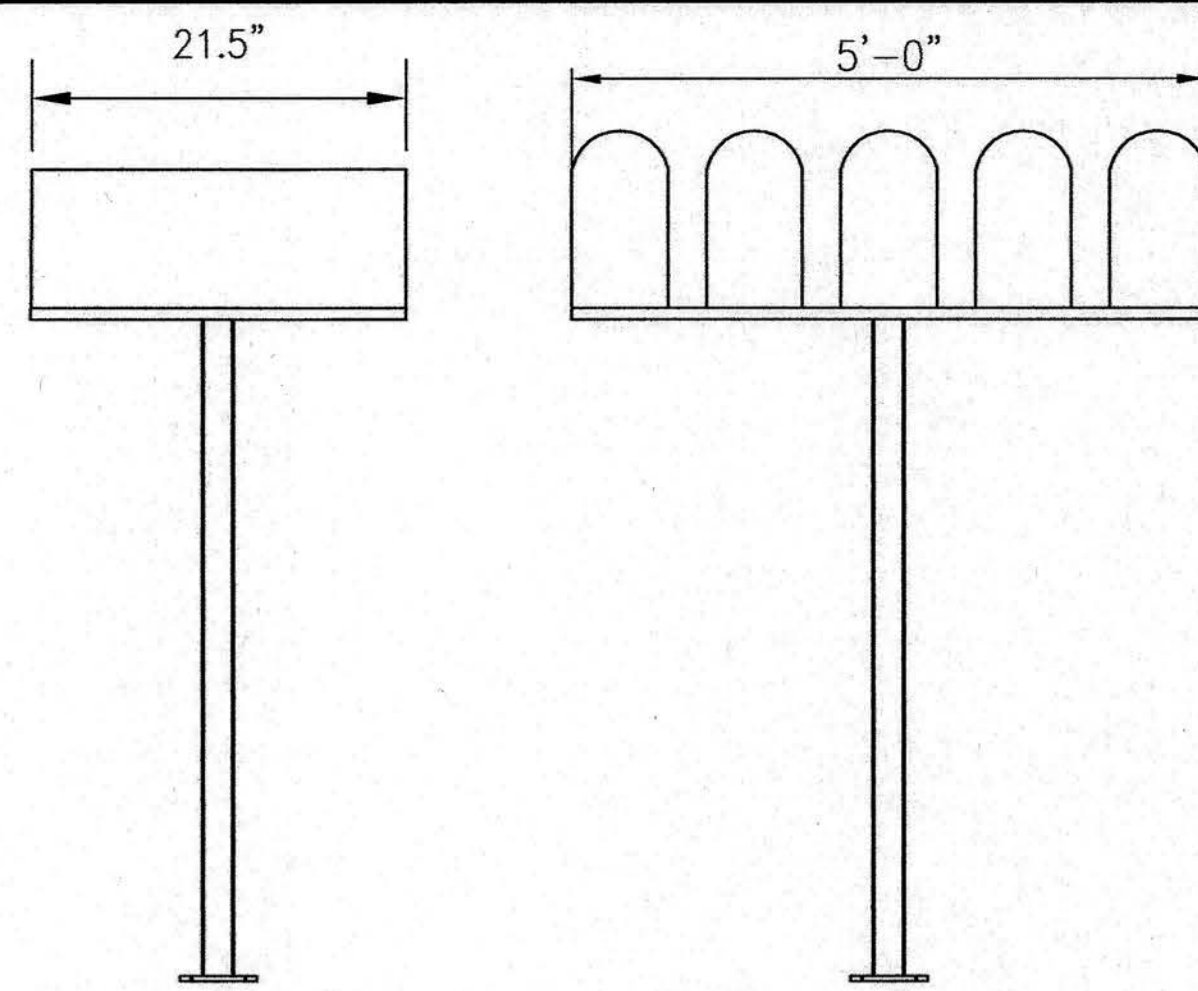
David Allen Nichols  
Registered Professional Engineer  
E-24212  
File No. TAP-2100(524)  
Scale: 1" = 10'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.



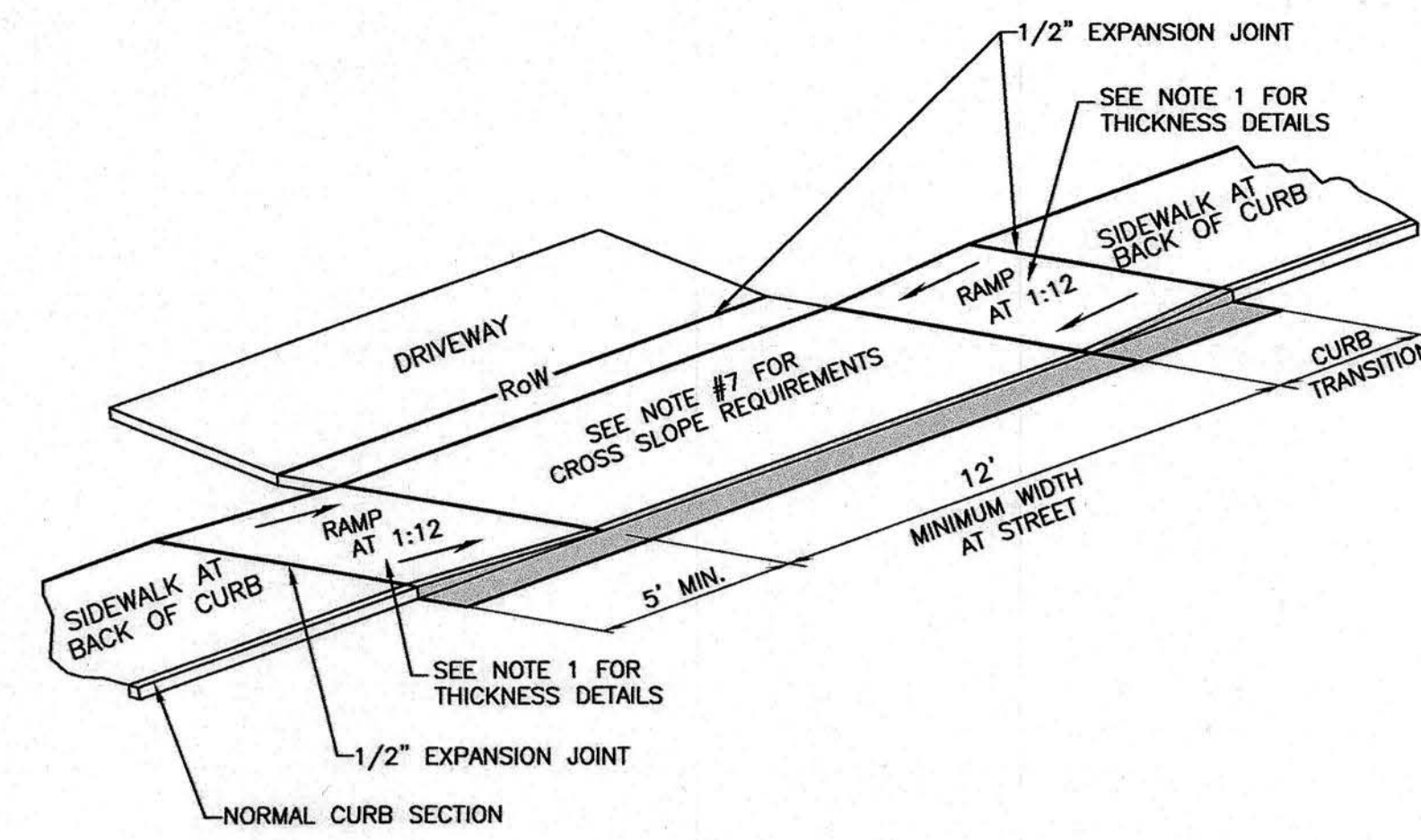
**1**  
**8** SIDEWALK WITH GRASS PARKWAY  
STA 0+00 TO 0+46.10

NOTE:

- SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE.
- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 100'.
- INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
- STANDARD SIDEWALK PLACEMENT IS 12" FROM RIGHT OF WAY LINE.
- NO STEEL TO BE PLACED THROUGH EXPANSION JOINT.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
- DAMAGED SIDEWALK MUST BE PINNED TO EXISTING SIDEWALK.
- WWR OR REBAR SHALL BE ACCURATELY PLACED AND FIRMLY HELD IN PLACE DURING CONCRETE PLACEMENT BY APPROVED METHODS, SEE SECTION 238.9.

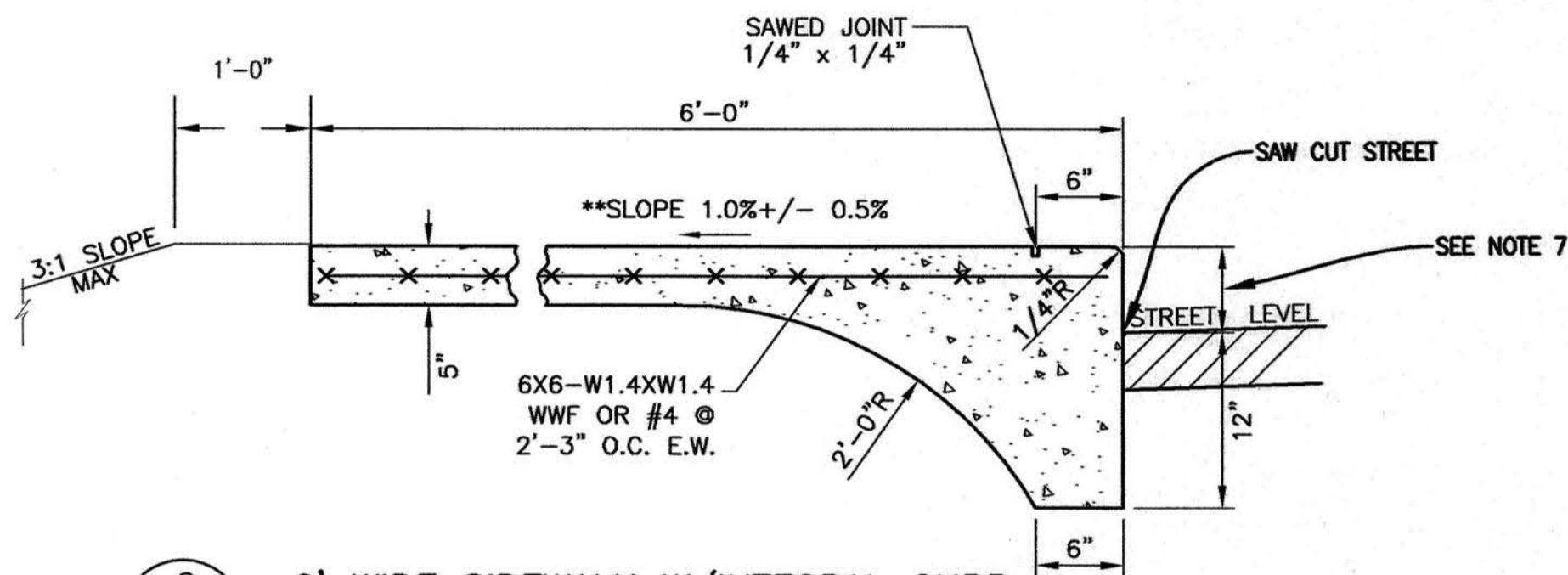


MAIL BOX DETAIL



NOTE:

- RAMP SHALL BE 6" THICK MoDOT PAVEMENT CONCRETE FOR RESIDENTIAL, 7" THICK MoDOT PAVEMENT CONCRETE FOR COMMERCIAL.
- EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
- DRIVEWAY CROSS SLOPE SHALL NOT EXCEED 2.00%.
- ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
- REPLACE STANDARD CURB SECTION DRIVEWAY CURB SECTION - DETAIL 400.02 OR 400.03
- RAMP LENGTH IS DEPENDENT UPON 1:12 MAX. SLOPE AT 5' MINIMUM TRANSITION AREA. USE FLATTER WHEN POSSIBLE.
- A PEDESTRIAN ACCESSIBLE ROUTE SHALL BE PROVIDED THAT IS 4'-0" WIDE MINIMUM WITH A MINIMUM CROSS SLOPE OF 1/8" PER FOOT AND MAXIMUM CROSS SLOPE OF 2.00%.
- DRIVEWAY MAY BE REINFORCED AT OWNERS OPTION. ON CITY BID PROJECTS DO NOT REINFORCE.

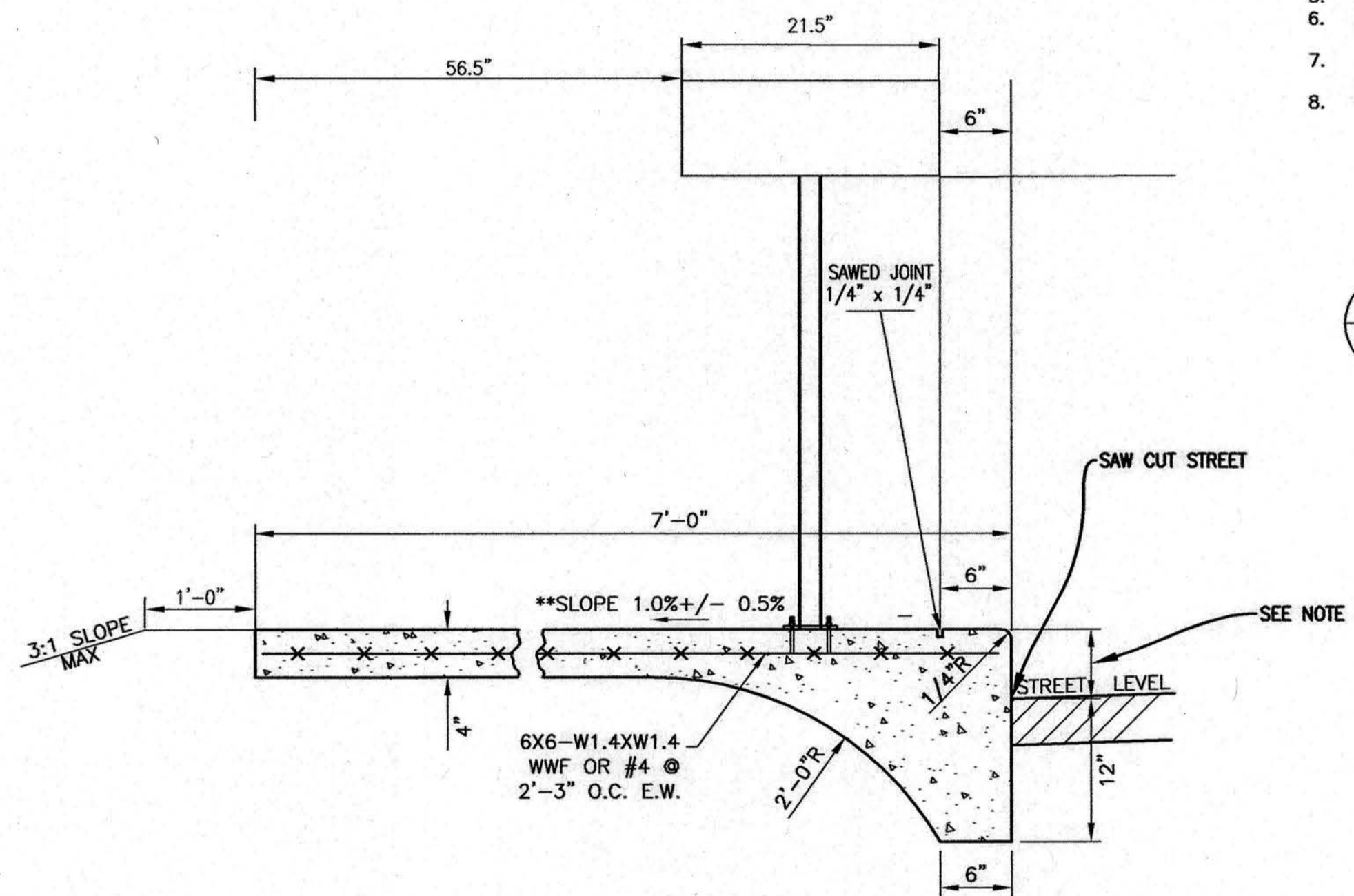


**2**  
**8** 6' WIDE SIDEWALK W/INTEGRAL CURB  
STA 1+08.01 TO 10+75.79

\*\* SLOPE AWAY FROM STREET  
NOT TO SCALE

NOTE:

- SIDEWALK SHALL BE 5" THICK MoDOT PAVEMENT CONCRETE.
- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 100'.
- INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
- NO STEEL TO BE PLACED THROUGH EXPANSION JOINT.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
- WWR OR REBAR SHALL BE ACCURATELY PLACED AND FIRMLY HELD IN PLACE DURING CONCRETE PLACEMENT BY APPROVED METHODS, SEE SECTION 238.9.
- CURB FACE HEIGHT SHALL BETWEEN 4" AND 8" ALLOWING FOR FLUXUATION IN THE STREET.
- CURB FACE TO BE BROOM FINISH.



**4**  
**8** 7' WIDE SIDEWALK W/INTEGRAL CURB & MAIL BOX  
STA 5+78.75 TO 5+96.14

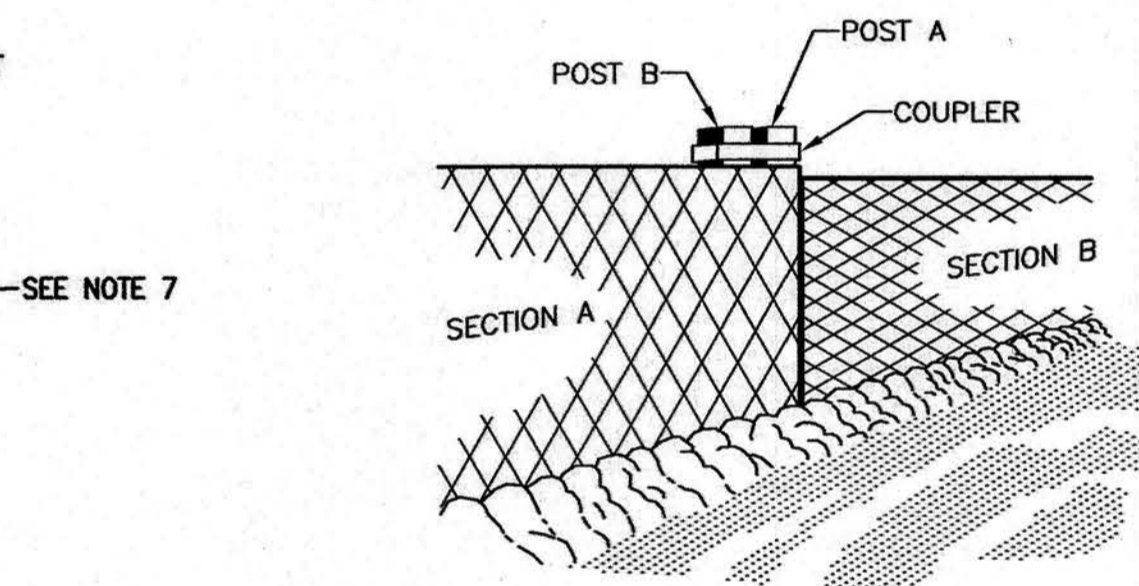
\*\* SLOPE AWAY FROM STREET  
NOT TO SCALE

NOTE:

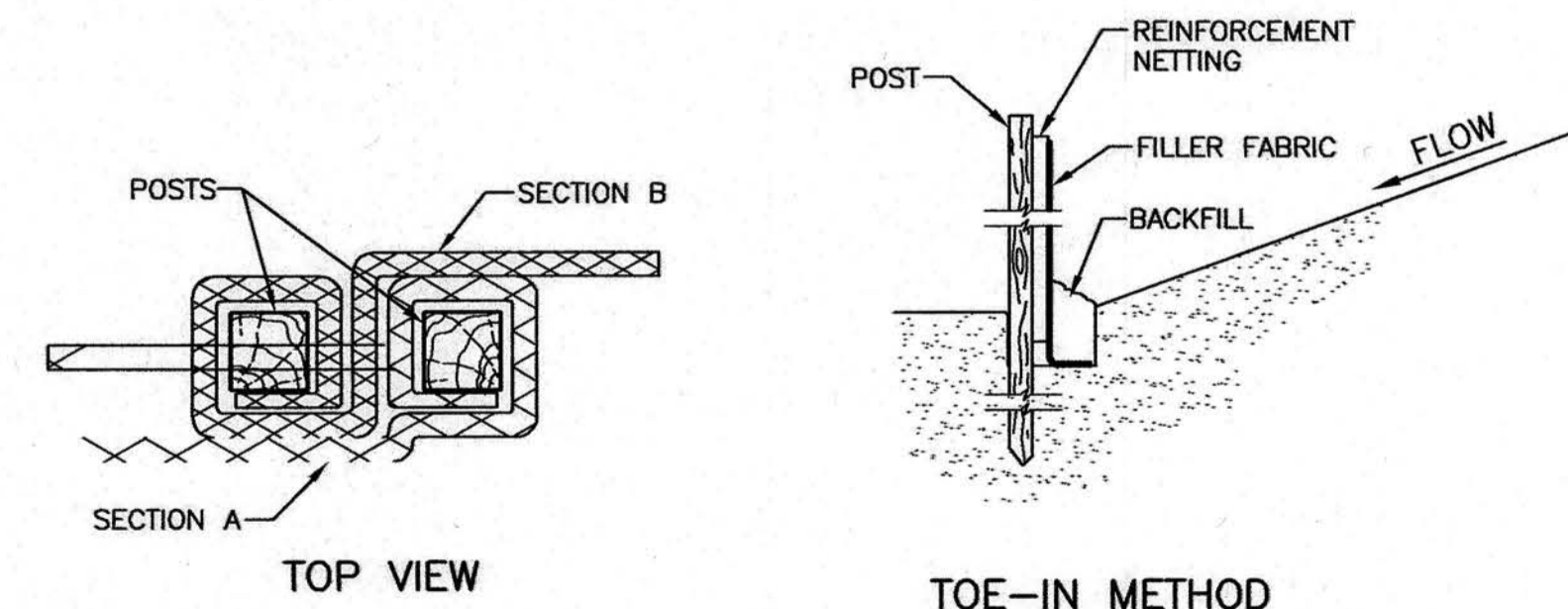
- SIDEWALK SHALL BE 5" THICK MoDOT PAVEMENT CONCRETE.
- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 100'.
- INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
- NO STEEL TO BE PLACED THROUGH EXPANSION JOINT.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
- WWR OR REBAR SHALL BE ACCURATELY PLACED AND FIRMLY HELD IN PLACE DURING CONCRETE PLACEMENT BY APPROVED METHODS, SEE SECTION 238.9.
- CURB FACE HEIGHT SHALL BE BETWEEN 4" AND 8" ALLOWING FOR FLUXUATION IN THE STREET.
- CURB FACE TO BE BROOM FINISH.

**5**  
**8** SIDEWALK DRIVEWAY DETAIL  
Sidewalk at Back of Curb

NOT TO SCALE



JOINING SECTIONS

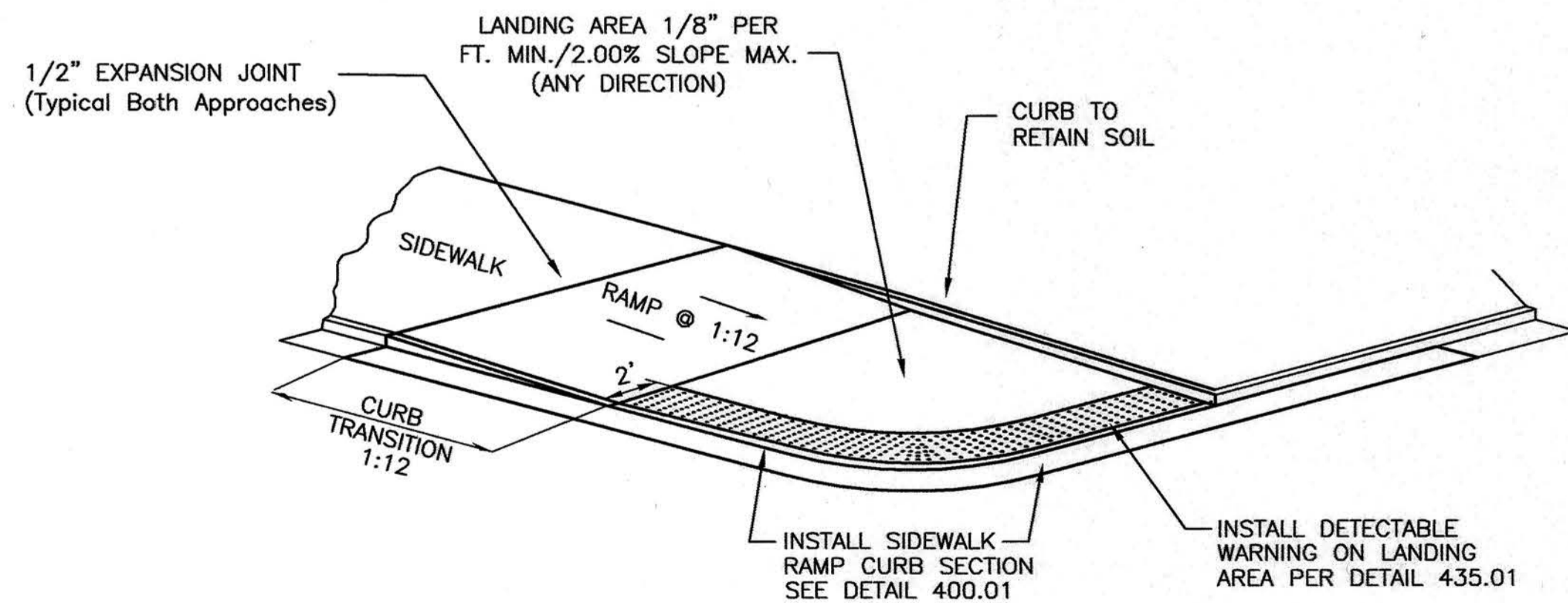


TOP VIEW

TOE-IN METHOD

NOTES:

- EXCAVATE A 6"x 6" TRENCH ALONG THE TOE OF SLOPE.
- UNROLL ONE SECTION AT A TIME AND POSITION POSTS AGAINST THE DOWNSTREAM WALL OF THE TRENCH. REINFORCEMENT NETTING MUST BE ON DOWNSTREAM SIDE OF FLOW DIRECTION.
- DRIVE POST INTO THE GROUND UNTIL THE REINFORCEMENT NETTING IS APPROXIMATELY 2" FROM THE TRENCH BOTTOM.
- LAY THE TOE-IN FLAP OF THE FABRIC IN THE BOTTOM OF THE TRENCH, AND TAMP THE SOIL.
- DOWNSTREAM END OF SILT FENCE SHALL BE TURNED INTO BACKSLOPE TO FORM ENCLOSURE.



NOTE:

- RAMP AND LANDING SHALL BE 6" THICK REINFORCED MoDOT PAVEMENT CONCRETE W/#4 BARS @ 12" O.C.
- EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
- MAXIMUM RAMP CROSS SLOPE IS 2.00%.
- ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
- REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION - DETAIL 400.01
- RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE.

**3**  
**8** CURB RAMP DETAIL

**6**  
**8** SILT FENCE INSTALLATION

Revision	
By	
Date	
No.	

CARTER LANE  
Details Sheet

City of Columbia, Missouri

Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212

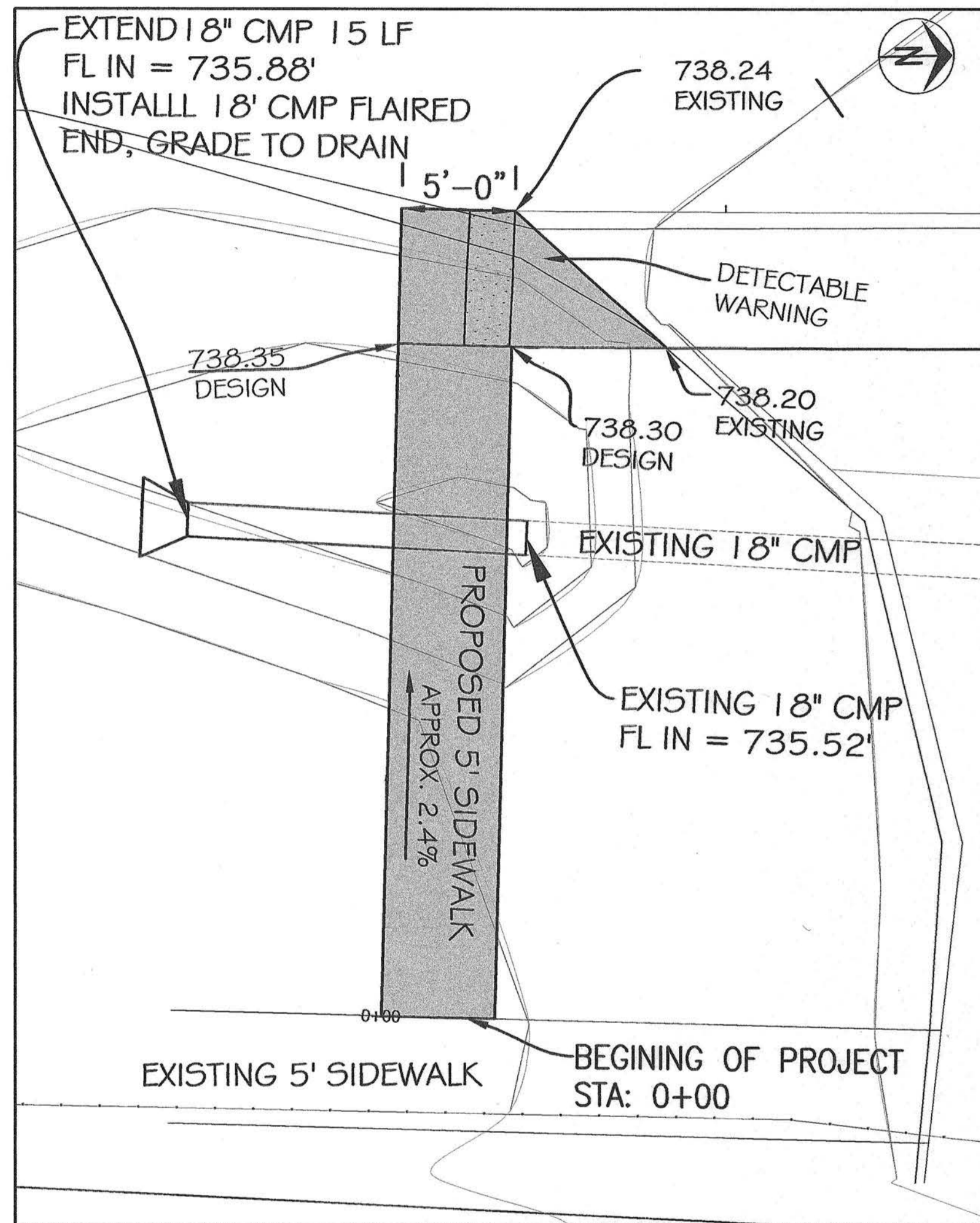
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Dwn. C.N.S.  
Chk. A.A.A.

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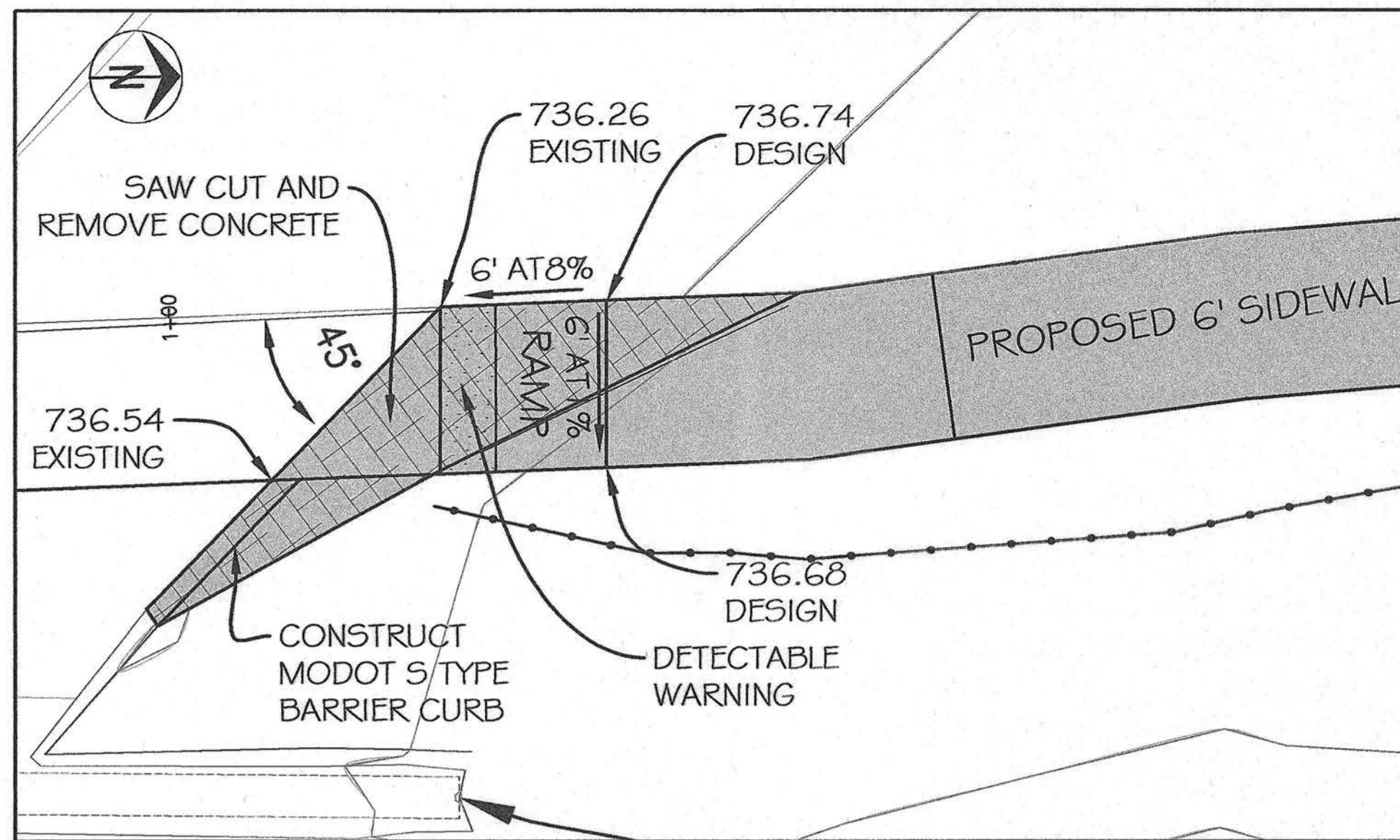




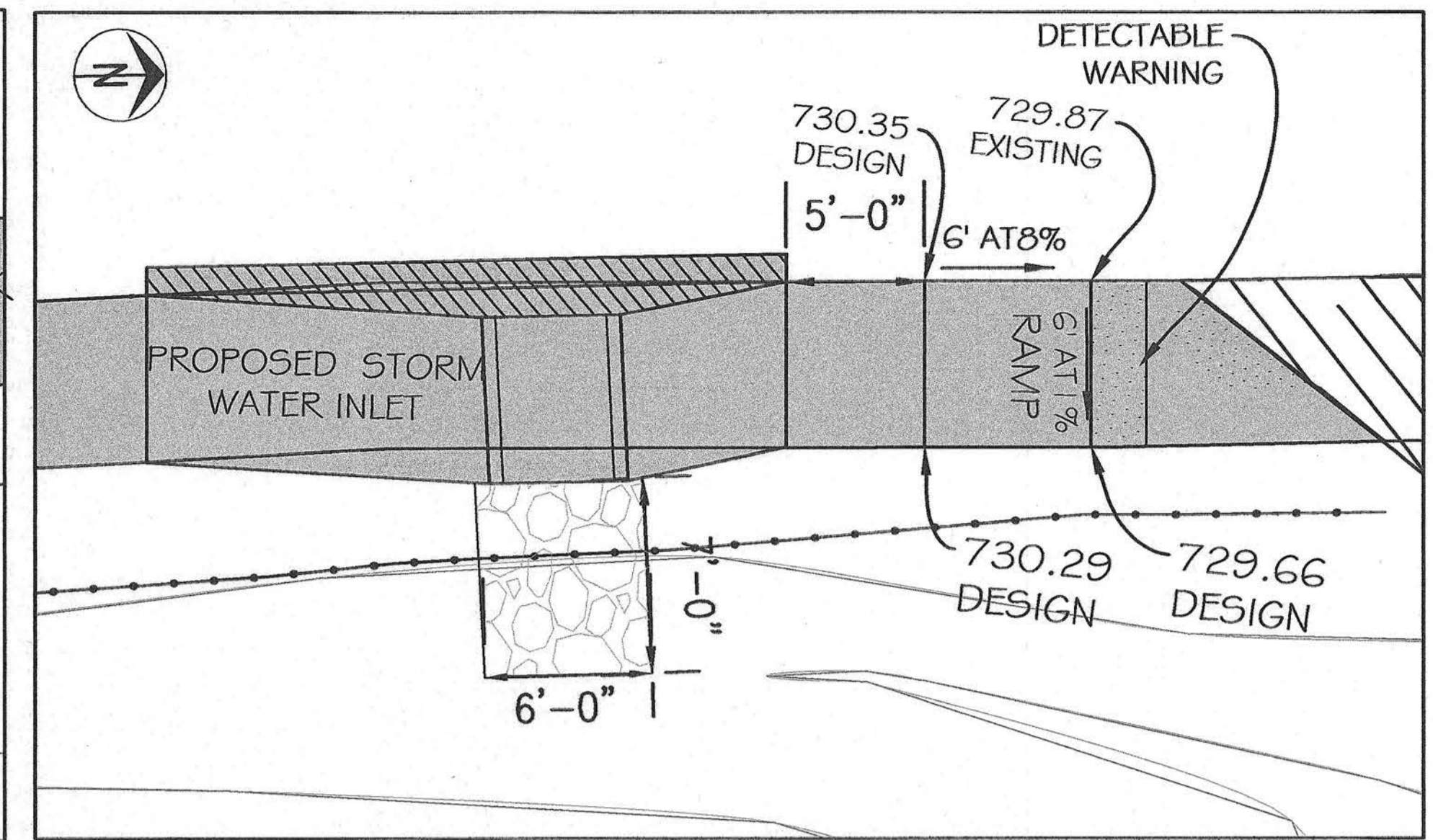
# SIDEWALK LANDING AND CURB RAMP LAYOUTS



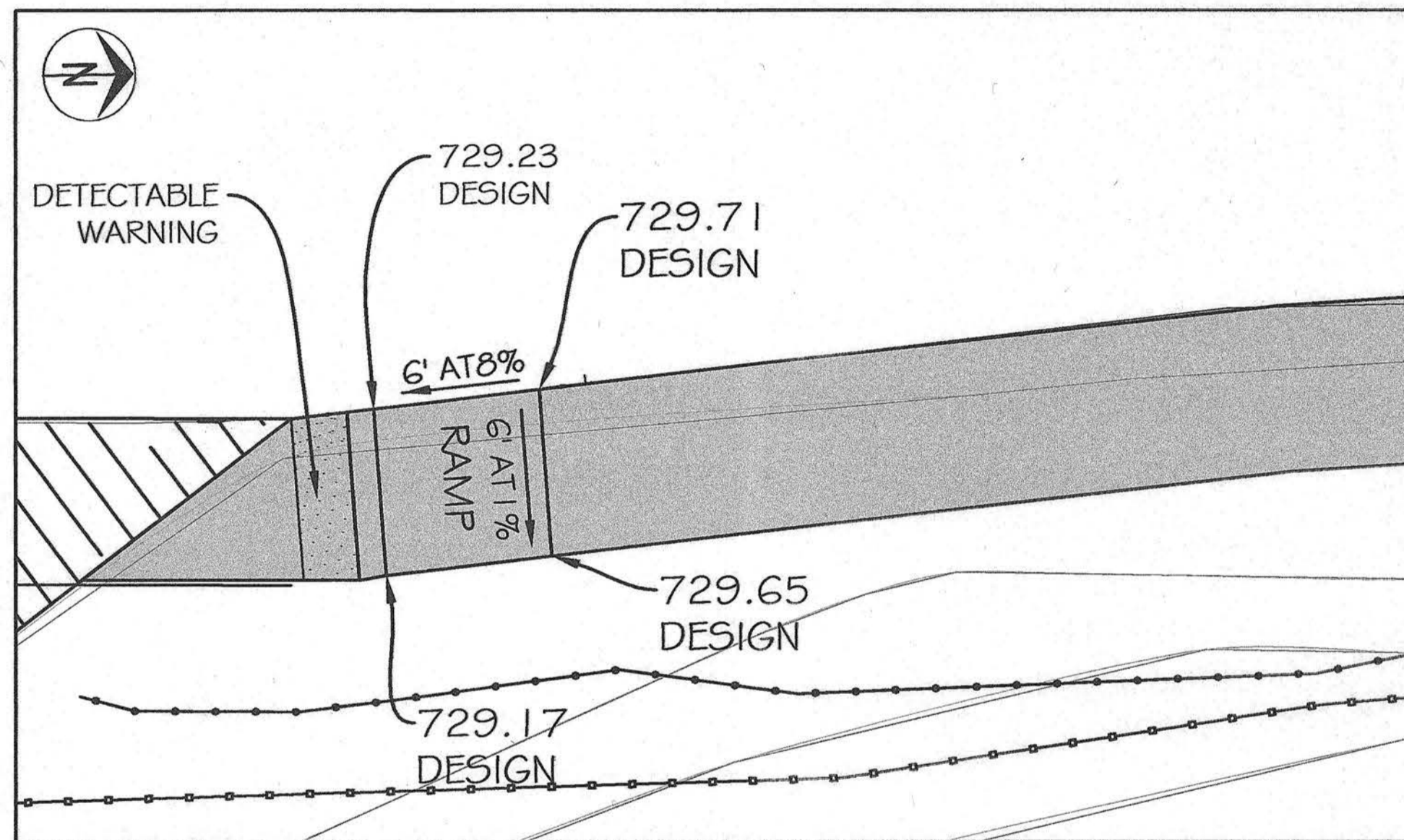
SOUTH SIDE HUNTINGTON



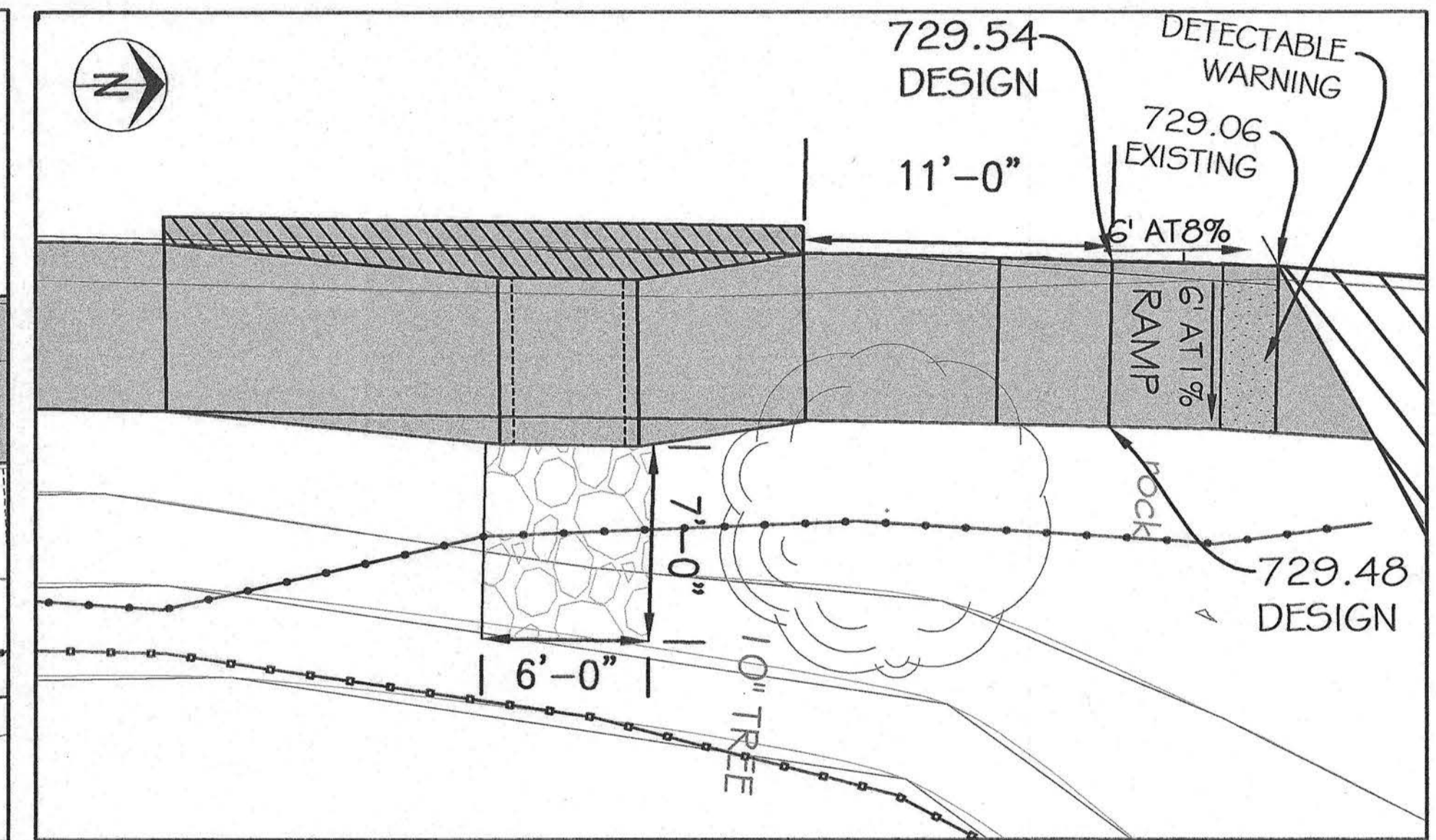
NORTH SIDE HUNTINGTON



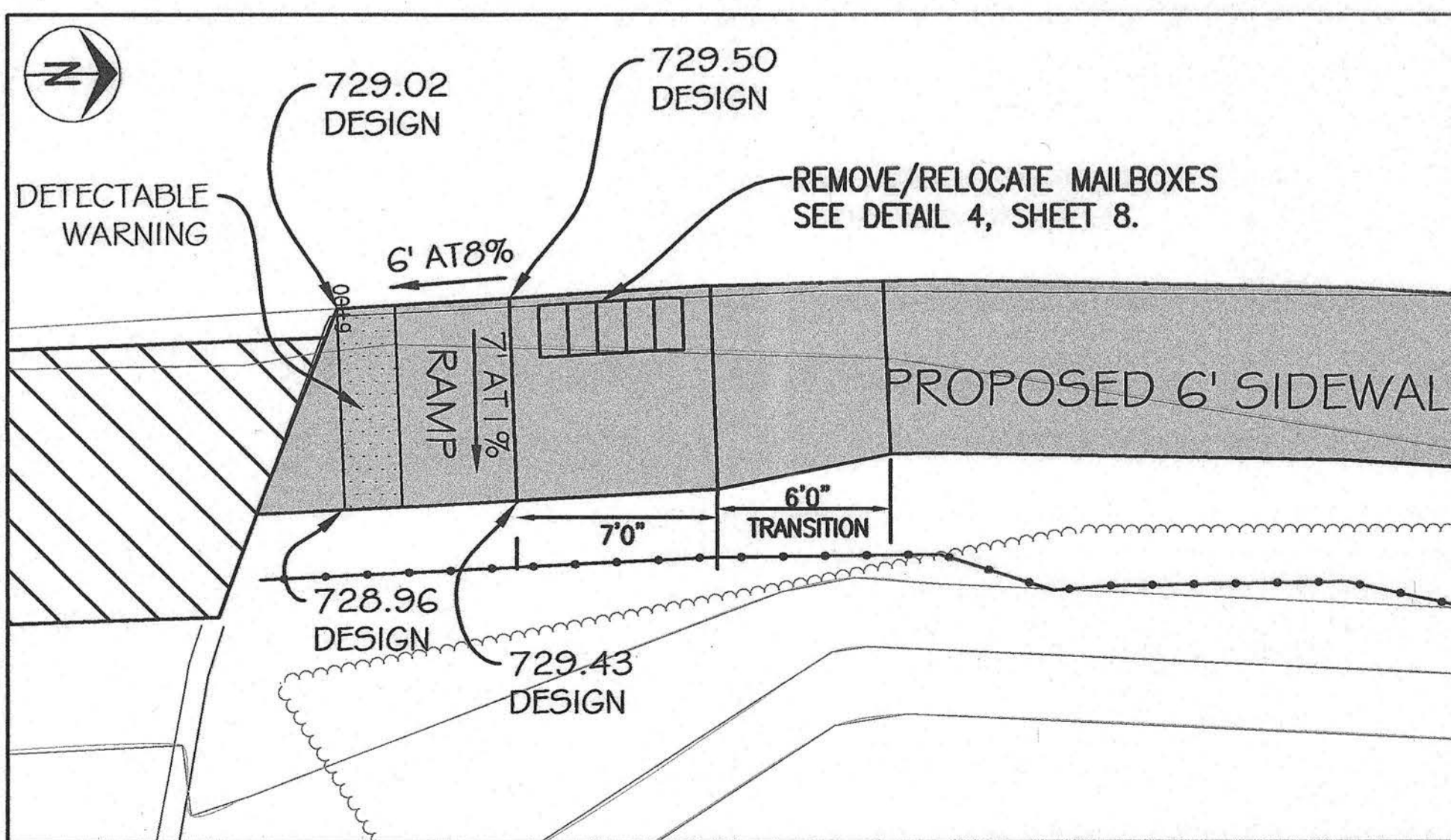
SOUTH SIDE VICTORIA DRIVE



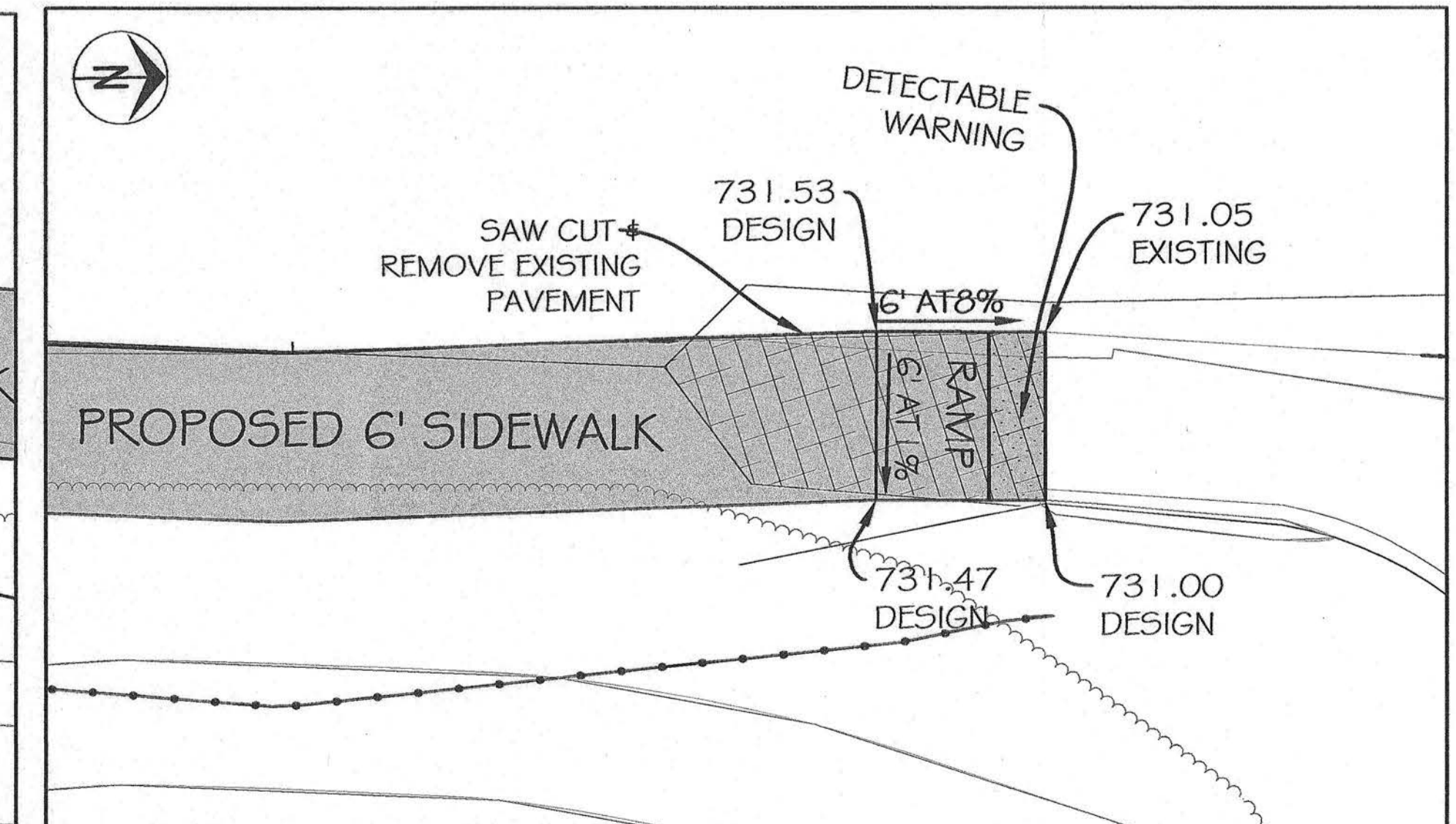
NORTH SIDE VICTORIA DRIVE



SOUTH SIDE PRIVATE DRIVE



NORTH SIDE PRIVATE DRIVE



SOUTH SIDE FOXFIRE DRIVE

Revision	By	Date	No.

## CARTER LANE SIDEWALK

Details Sheet

City of Columbia, Missouri

Department of Public Works

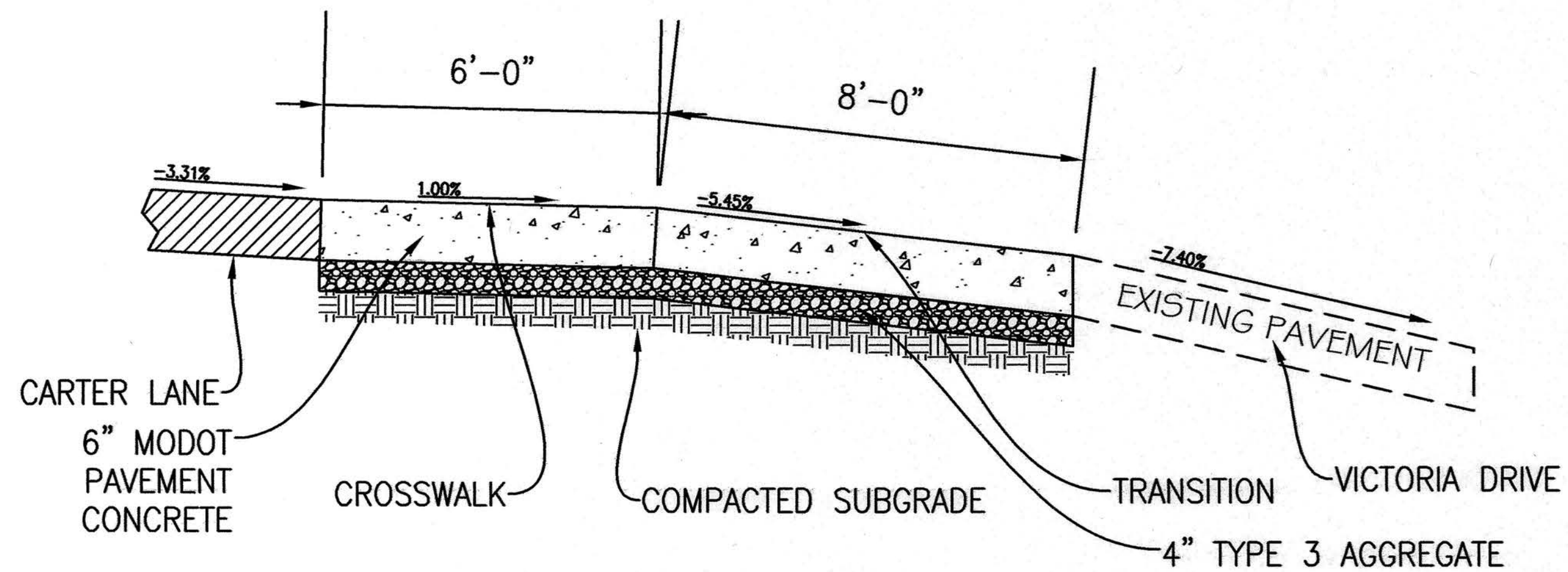
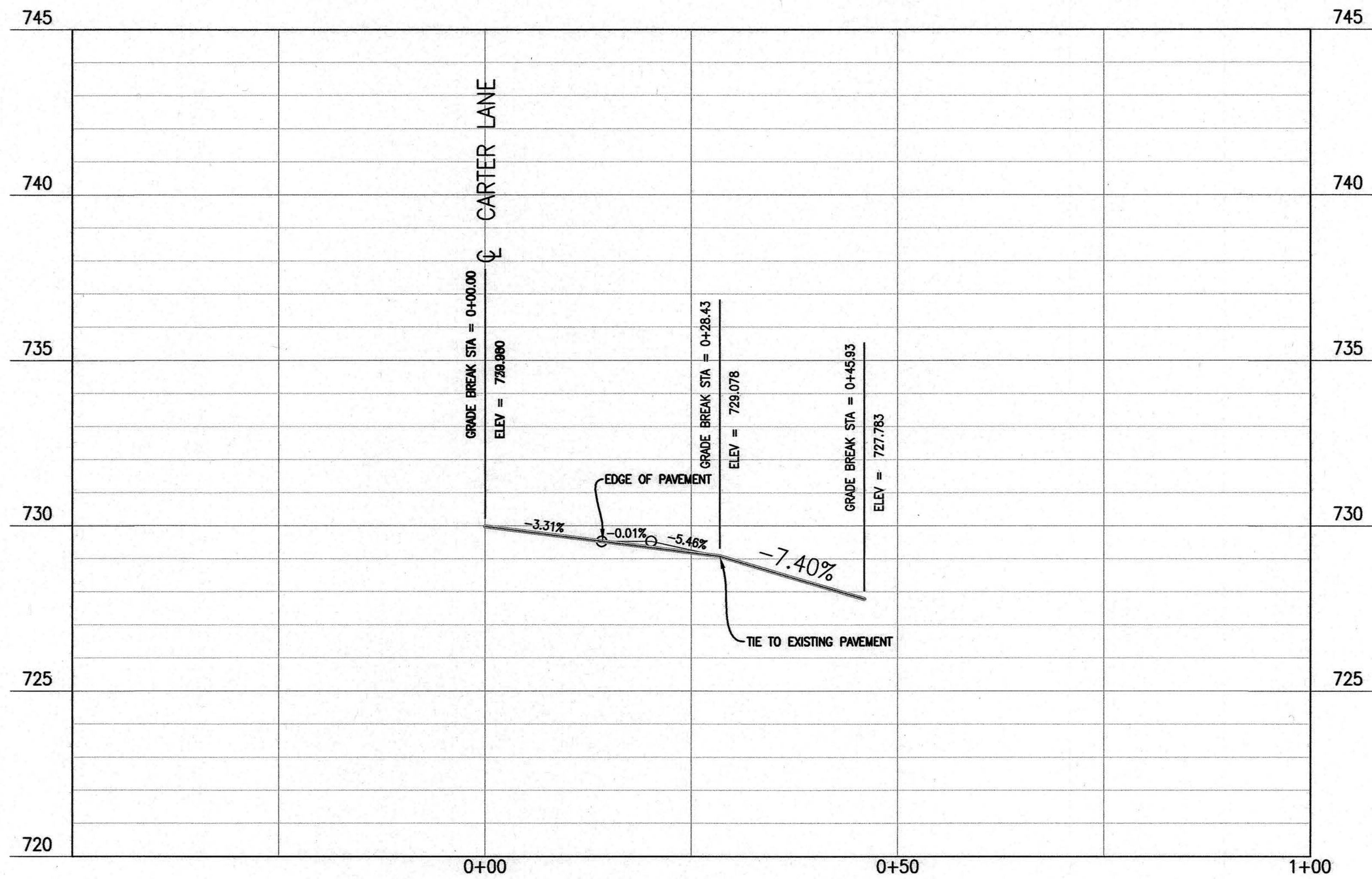
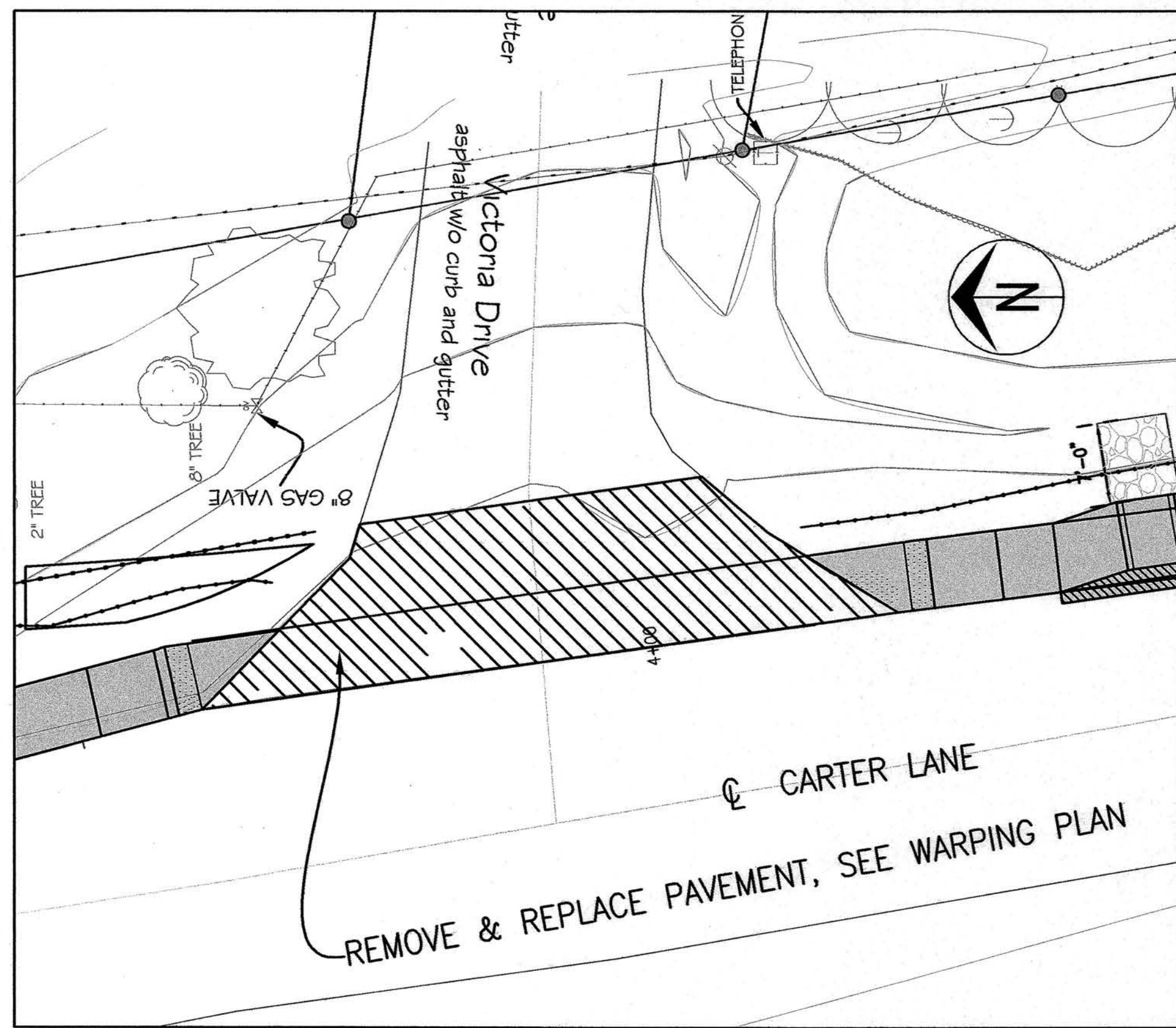


David Allen Nichole  
Registered Professional Engineer  
E-24212

File No. TAP-2100(524)  
Scale: 1" = 5'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. AAA

c:\cadd\p\sidewalk\180112\_carter\_lane\design\18-23-18-carter\_lane\sidewalk\18\_18.dwg

2015 Orthophoto Source: Boone County Assessor



Revision

By

Date

No.

**CARTER LANE SIDEWALK**  
WARPING PLANE VICTORIA DRIVE

City of Columbia, Missouri

Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212

File No. TAP-2100(524)

Scale: NOT TO SCALE

Date: 10/23/2018

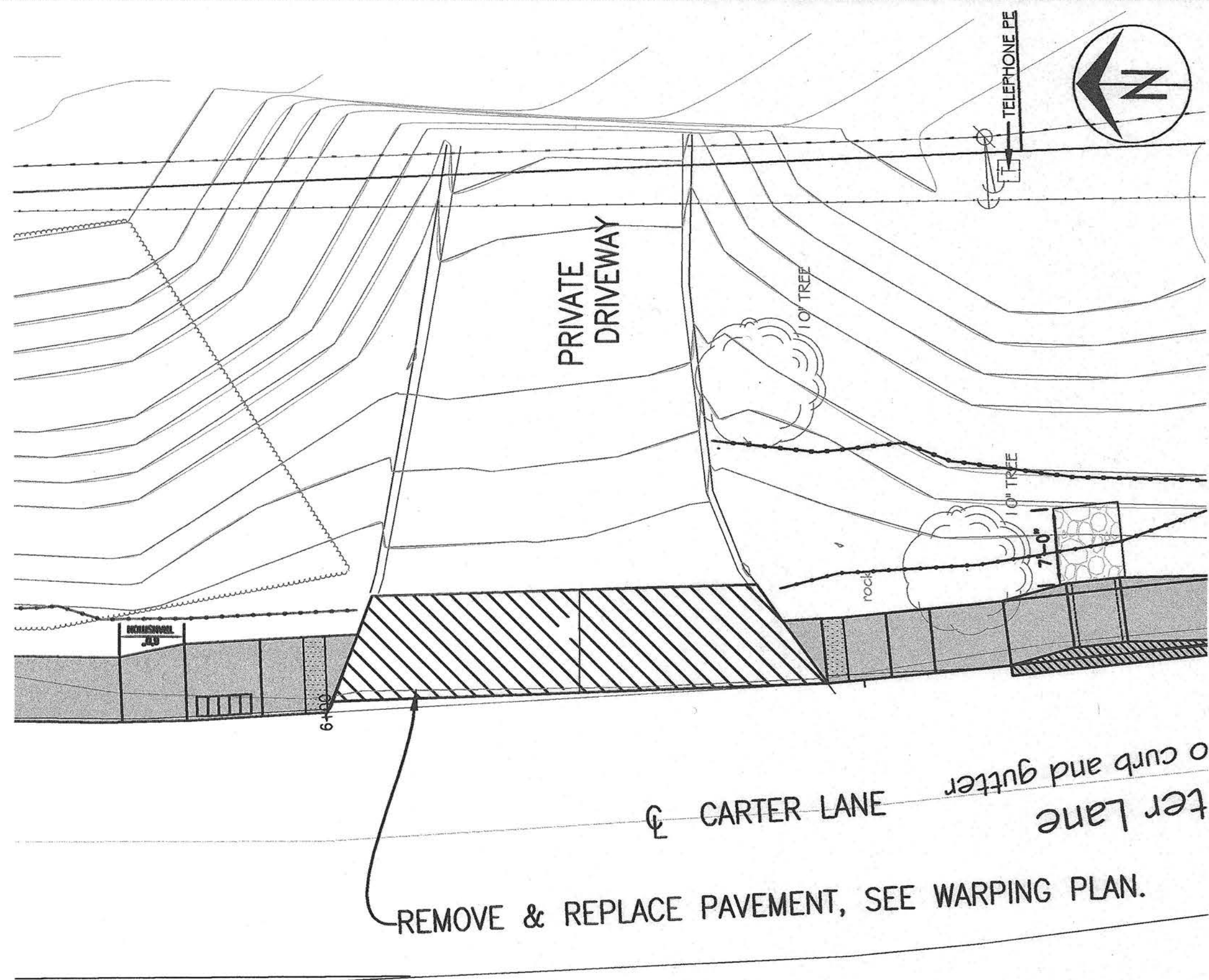
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Dwn. C.N.S.

Chk. A.A.A.

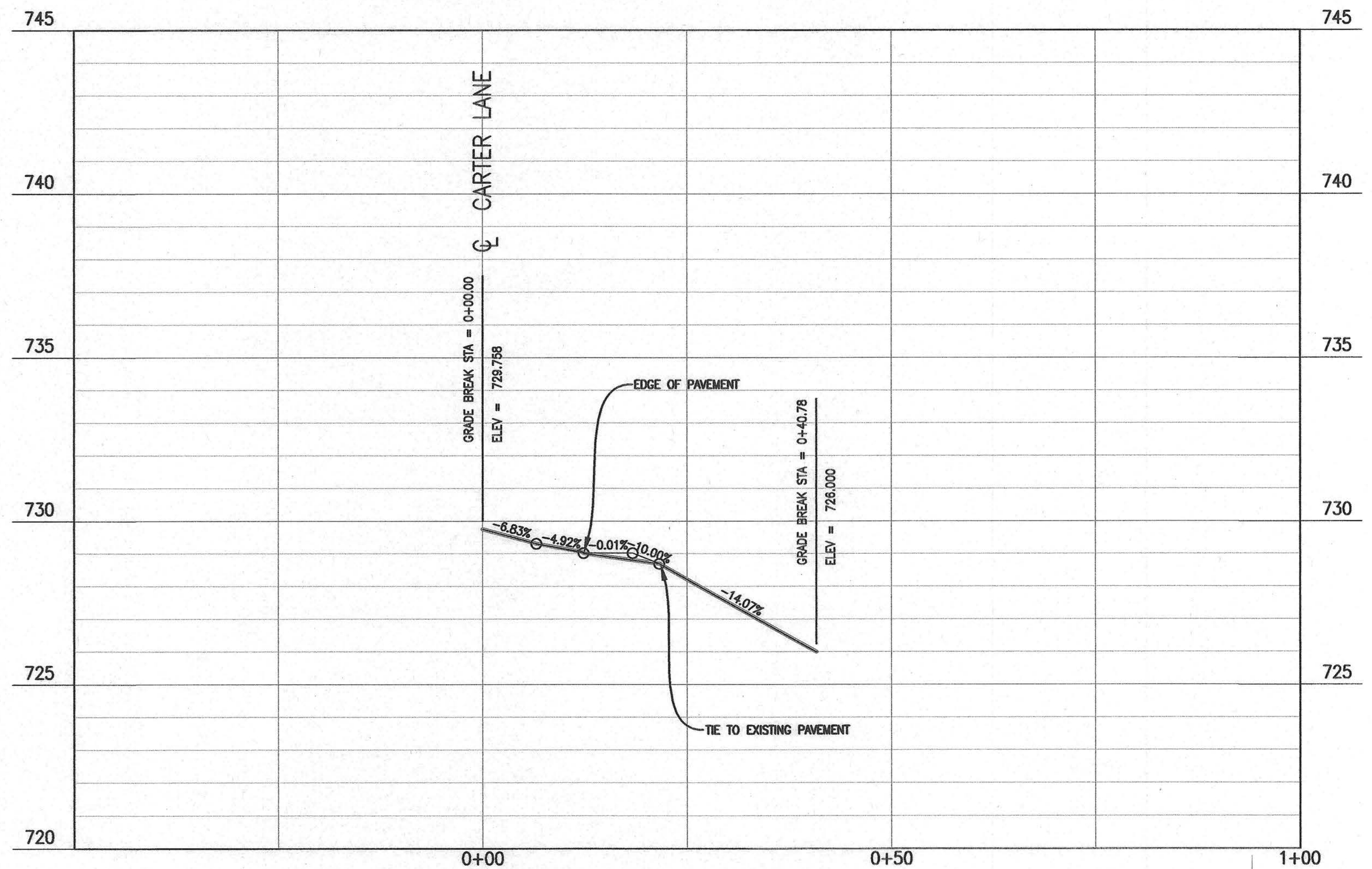
Sheet

10 of 14



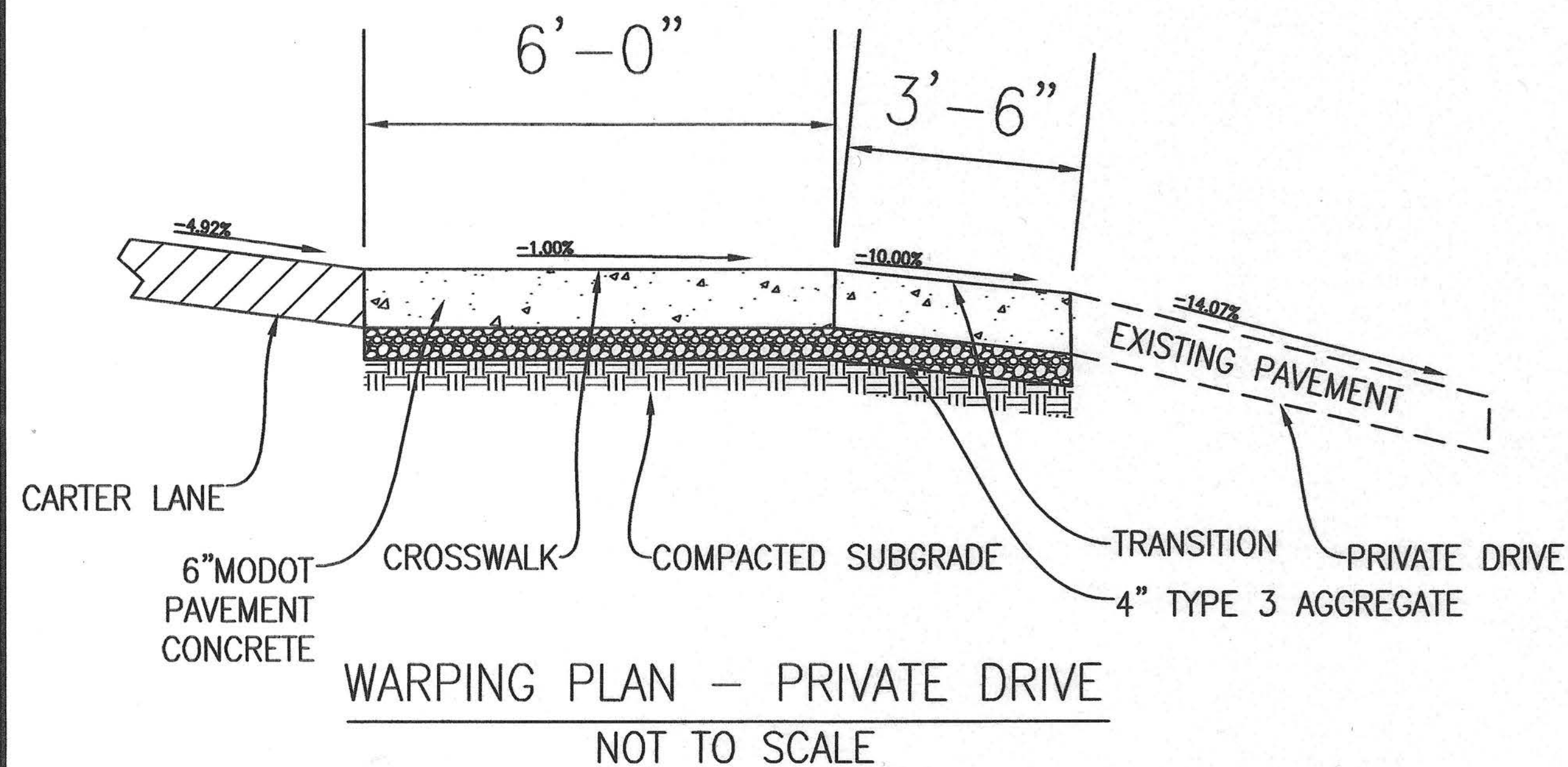
PLAN VIEW — PRIVATE DRIVE

SCALE: 1" = 20'



PROFILE VIEW — PRIVATE DRIVE

SCALE: HORZ: 1" = 20', VERT: 1" = 5'



Revision	By	Date	No.

CARTER LANE SIDEWALK  
WARPING PLAN PRIVATE DRIVE

City of Columbia, Missouri



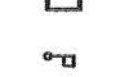
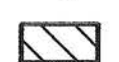

Department of Public Works

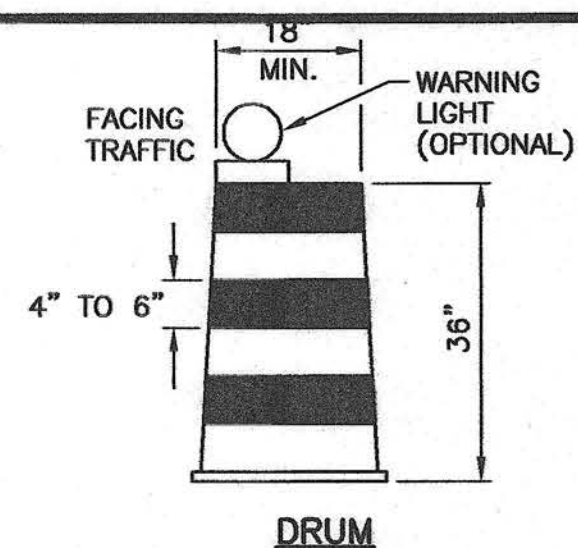


David Allen Nicholas  
Registered Professional Engineer  
E-24212

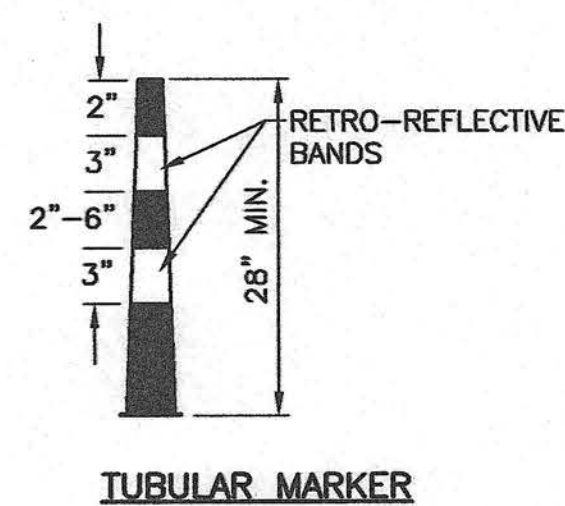
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Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

**LEGEND**

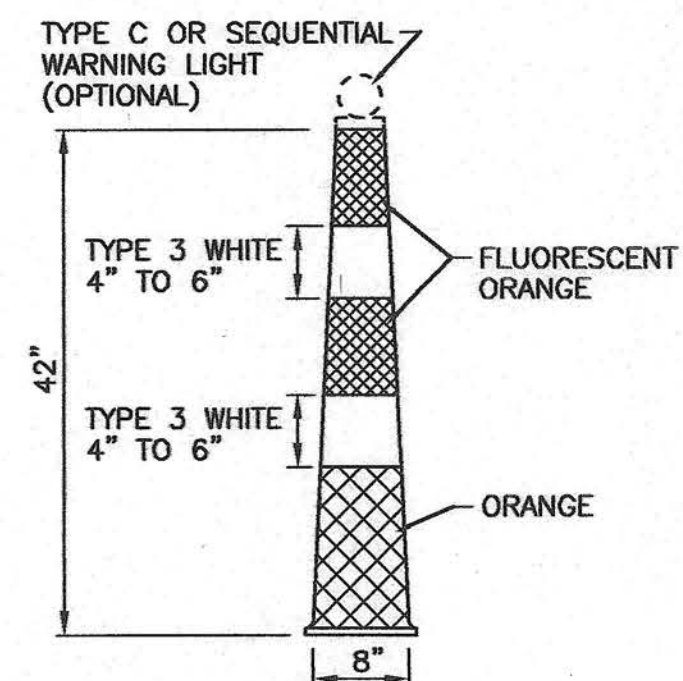
-  SIGN
-  CHANNELIZER
-  TYPE 2 BARRICADE
-  FLAGGER
-  WORK ZONE



**CHANNELIZERS**

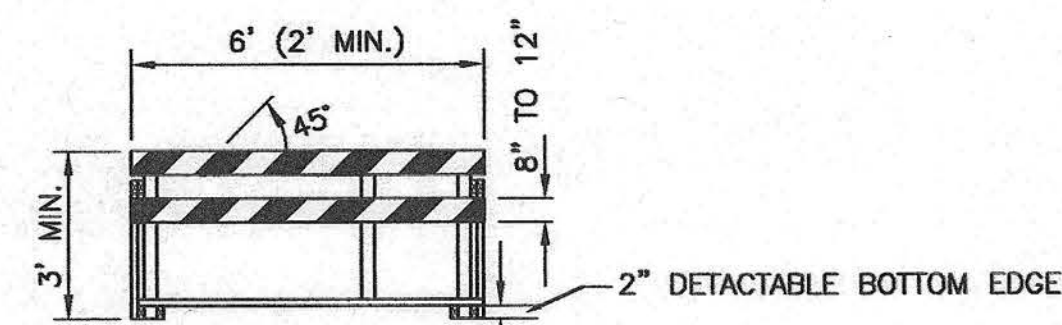


**TUBULAR MARKER**



REFLECTIVE SHEETING APPLIED TO CHANNELIZERS SHALL BE REBOUNDABLE MEETING ASTM D 4956.

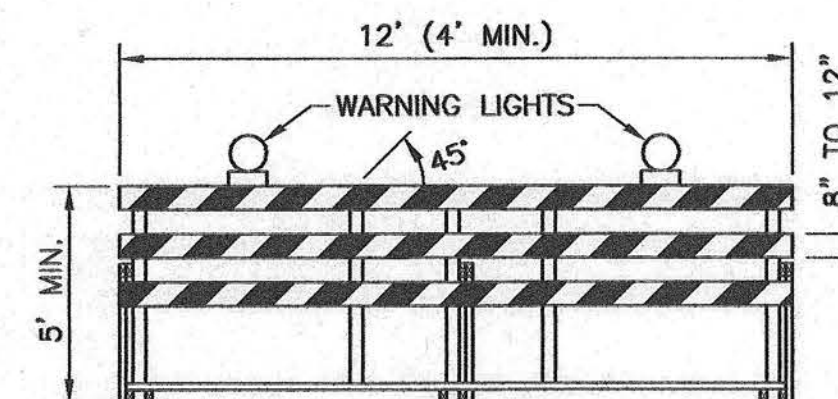
**TRIM LINE CHANNELIZER**



**NOTES:**

- NOMINAL LUMBER DIMENSIONS ARE SATISFACTORY FOR BARRICADE RAIL WIDTH DIMENSIONS.
- RAIL STRIPE WIDTHS SHALL BE 6", EXCEPT THAT 4" WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36". THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- STRIPES ON BARRICADE RAILS SHALL BE ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION ROAD USERS ARE TO PASS.

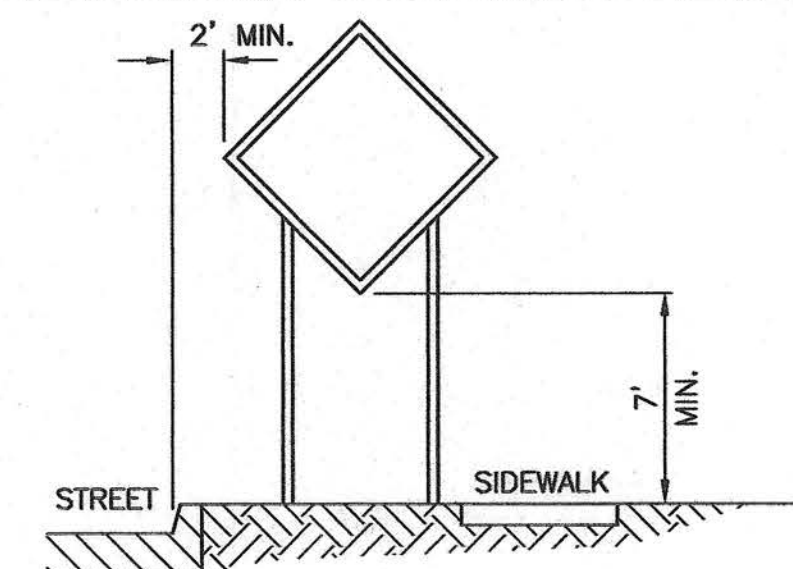
**TYPE II BARRICADE**



**NOTES:**

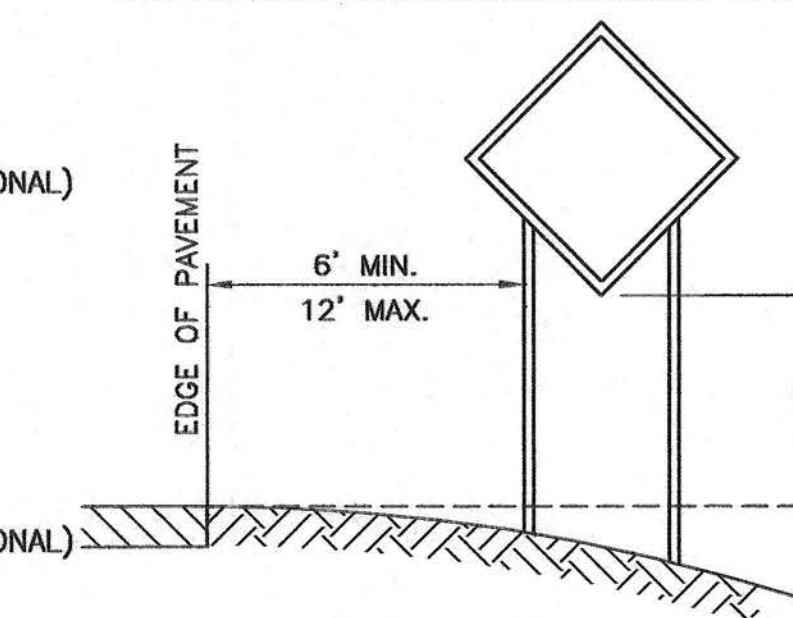
- NOMINAL LUMBER DIMENSIONS ARE SATISFACTORY FOR BARRICADE RAIL WIDTH DIMENSIONS.
- RAIL STRIPE WIDTHS SHALL BE 6". THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- ALL TYPE III BARRICADES SHALL HAVE TWO TYPE B WARNING LIGHTS.
- STRIPES ON BARRICADE RAILS SHALL BE ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION ROAD USERS ARE TO PASS.

**TYPE III BARRICADE**



NOTE: SUPPORT POSTS SHALL NOT EXTEND ABOVE SIGN UNLESS DISTANCE PLAQUE OR WARNING LIGHTS ARE SPECIFIED.

**SIGN MOUNTING**



NOTE: SUPPORT POSTS SHALL NOT EXTEND ABOVE SIGN UNLESS DISTANCE PLAQUE OR WARNING LIGHTS ARE SPECIFIED.

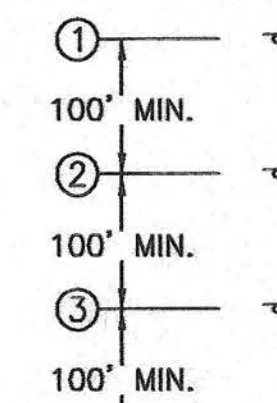
**SIGN MOUNTING**

**TRAFFIC CONTROL NOTES:**

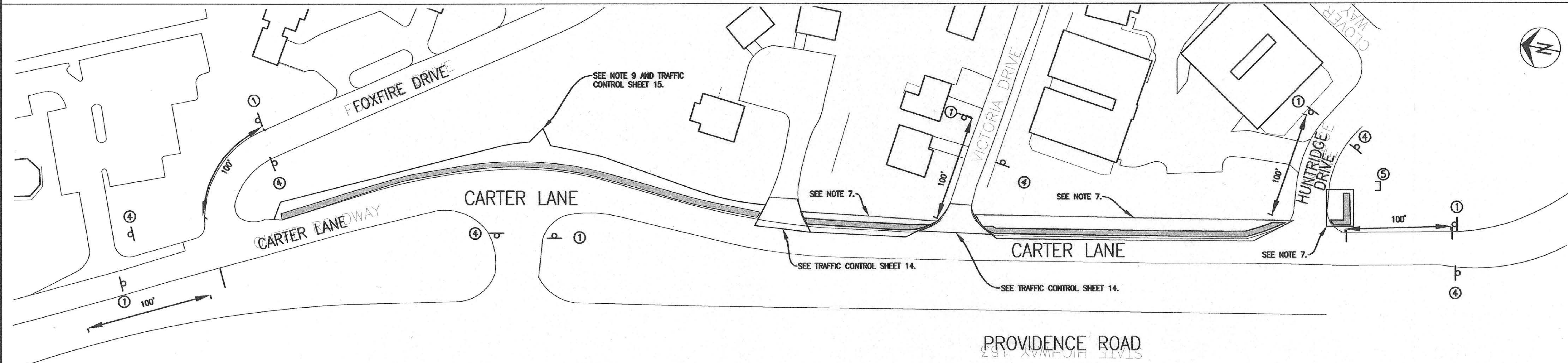
- ALL TRAFFIC CONTROL DEVICES SHOWN ON PLAN SHOULD BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION. ACTUAL QUANTITIES WILL DEPEND ON THE CONTRACTOR'S CONSTRUCTION SEQUENCE AND PROGRESS. NO MEASUREMENT WILL BE MADE OF ACTUAL QUANTITIES. QUANTITIES SHOWN ARE APPROXIMATE.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES IN THE CONSTRUCTION ZONE TO THE MAXIMUM EXTENT PRACTICABLE.
- THE CONTRACTOR SHALL NOTIFY THE CITY JOINT COMMUNICATIONS OFFICE (874-7400) OF ALL ROAD CLOSURES OR LANE REDUCTIONS IN ADVANCE.
- 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 PRIOR TO IMPROVEMENTS. CONTRACTOR RESPONSIBLE FOR ADDITIONAL SIGNING, MARKING OR DELINEATORS FOR SITE SPECIFIC CONSTRUCTION PHASING TO COMPLY WITH MUTCD GUIDELINES.
- ALL OPEN TRENCHES ARE TO BE BARRICADED WITH CONSTRUCTION FENCING TO PROTECT MOTORISTS AND PEDESTRIANS.
- BARRELS SHALL BE USED AS CHANNELIZATION DEVICES WHEN WORKING ADJACENT TO THROUGH TRAFFIC TO PROTECT MOTORISTS FROM WORK. BARRELS SHALL HAVE TYPE "C" WARNING LIGHTS WHEN USED DURING NIGHTTIME HOURS.
- FLAGGERS SHALL BE USED DURING LANE CLOSURE AND ANY TIME CONSTRUCTION ACTIVITIES ENCOACHES ON THE TRAVEL LANE. WHEN NOT PERFORMING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL OPEN BOTH LANES OF TRAFFIC AND COVER THE APPROPRIATE LANE CLOSURE SIGNAGE.
- THE DISTANCE BETWEEN TEMPORARY TRAFFIC CONTROL SIGNS MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.
- THE SECTION OF SIDEWALK BETWEEN FOXFIRE DRIVE AND THE PRIVATE DRIVE SHALL BE CONSTRUCTED WITH THE CLOSURE OF THE PROVIDENCE CONNECTION. "LANE CLOSURE USING FLAGGER" SHALL BE USED ANYTIME CONSTRUCTION ACTIVITIES ENCOACHES ON THE TRAVEL LANE. SEE SHEET 15 FOR TRAFFIC CONTROL.



TRAFFIC CONTROL				
MUTCD	LEGEND	SIZE	QUANT.	
①	W020-1 "ROAD WORK AHEAD"	36" X 36"	6	
②	W020-4 "ONE LANE ROAD AHEAD"	36" X 36"	2	
③	W020-7a FLAGGER (SYMBOL)	36" X 36"	2	
④	G020-2 "END ROAD WORK"	36" X 18"	6	
⑤	R9-9 "SIDEWALK CLOSED" / TYPE II BARRICADE	24" X 12"	1	



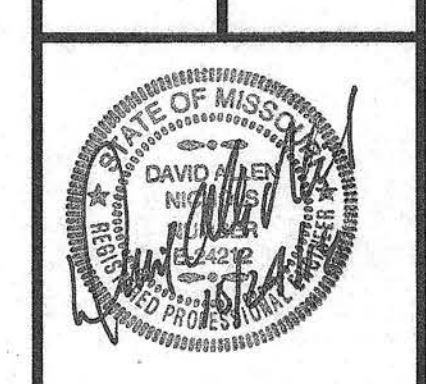
**TYPICAL LANE CLOSURE USING FLAGGERS**



Revision	
By	
Date	
No.	

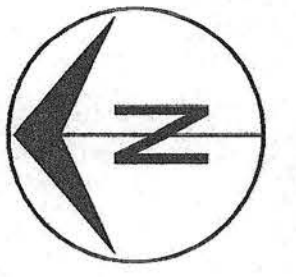
**CARTER LANE SIDEWALK**  
TRAFFIC CONTROL SHEET 1

City of Columbia, Missouri  
Department of Public Works



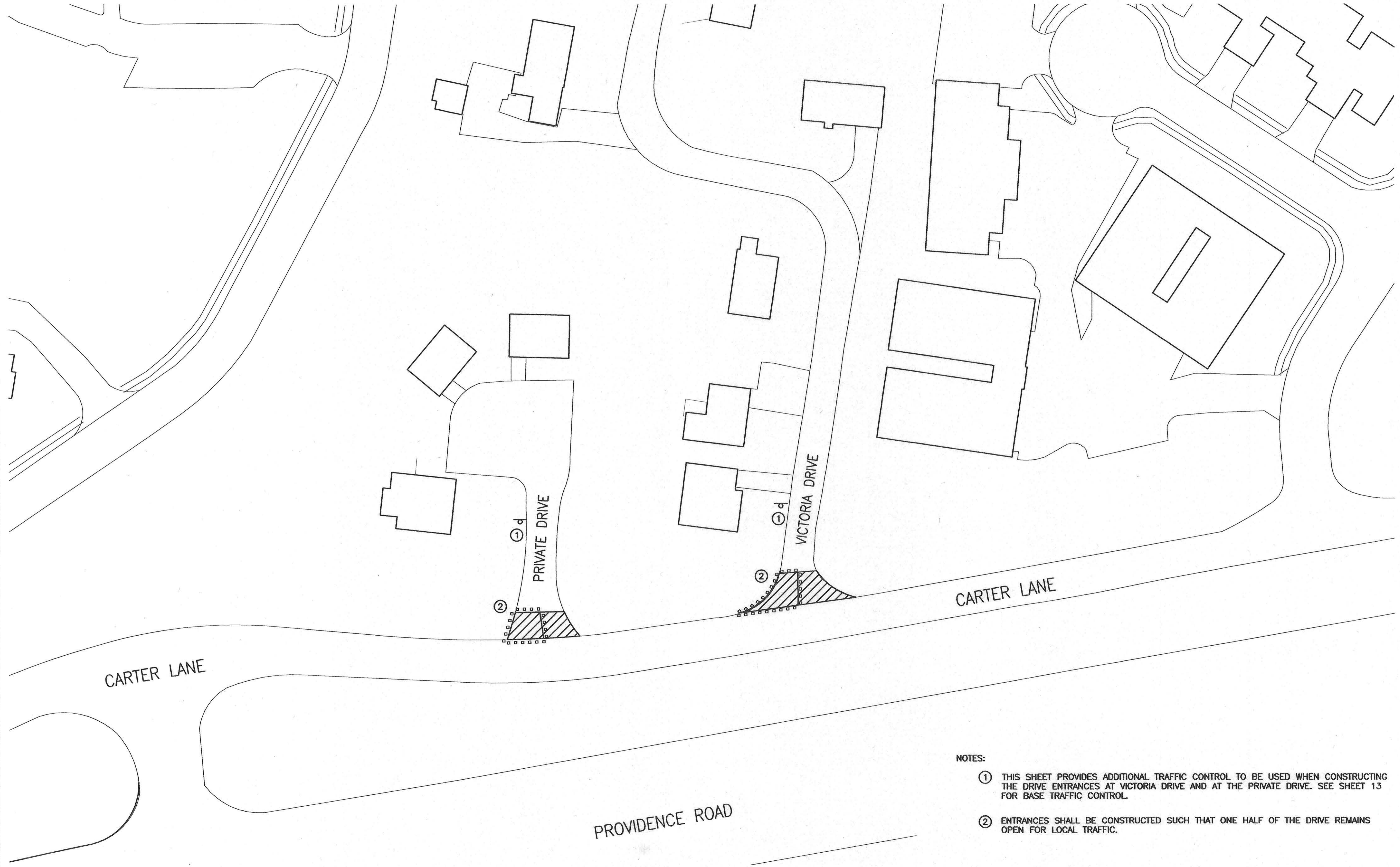
David Allen Nichols  
Registered Professional Engineer  
E-24212  
File No. TAP-2100(524)  
Scale: 1" = 50'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

# ADDITIONAL TRAFFIC CONTROL FOR CONSTRUCTION OF DRIVEWAY ENTRANCES.



- ① YIELD R1-2 (36X36X36). TO ONCOMING TRAFFIC RL20AP (36X30).
- ② CHANNELIZERS WITH TYPE C WARNING LIGHTS AROUND HALF UNDER CONSTRUCTION (10' SPACING TYP.).

LEGEND	
⊕	SIGN
□	CHANNELIZER
▨	WORK ZONE



- NOTES:**
- ① THIS SHEET PROVIDES ADDITIONAL TRAFFIC CONTROL TO BE USED WHEN CONSTRUCTING THE DRIVE ENTRANCES AT VICTORIA DRIVE AND AT THE PRIVATE DRIVE. SEE SHEET 13 FOR BASE TRAFFIC CONTROL.
  - ② ENTRANCES SHALL BE CONSTRUCTED SUCH THAT ONE HALF OF THE DRIVE REMAINS OPEN FOR LOCAL TRAFFIC.

Revision	By	Date	No.

## CARTER LANE SIDEWALK TRAFFIC SHEET 2

City of Columbia, Missouri  
Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212

File No. TAP-2100(524)  
Scale: 1" = 30'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

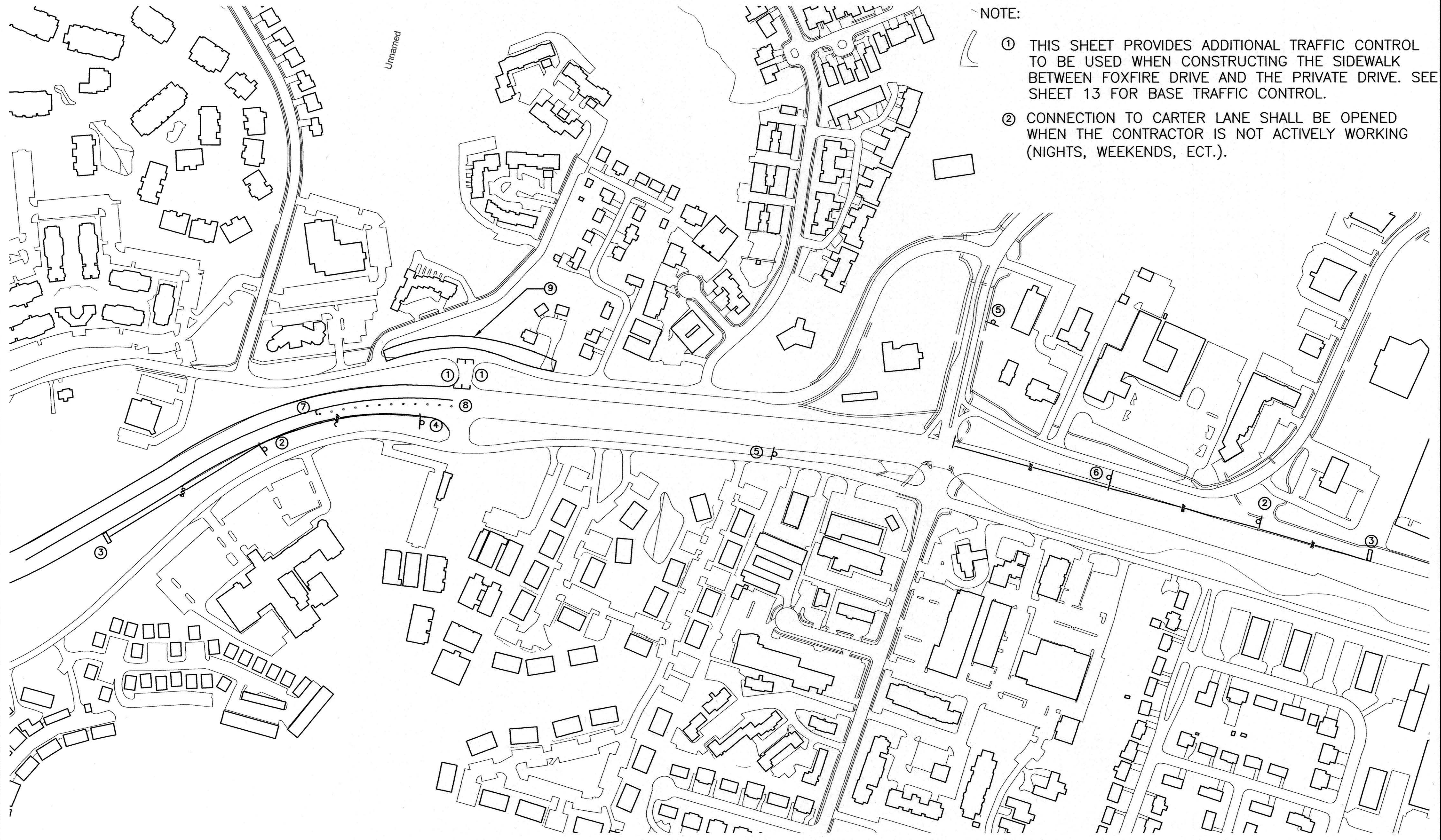
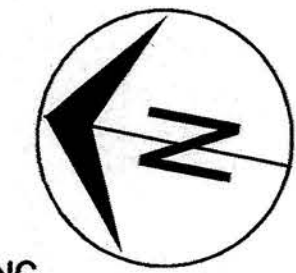
c:\caddpro\laserwalk\180112\_carter\_lane\design\traffic\_control.dwg

# ADDITIONAL TRAFFIC CONTROL FOR CONSTRUCTION OF SIDEWALK BETWEEN FOXFIRE DRIVE AND PRIVATE DRIVE

- ① TYPE III BARRICADES W/WARNING LIGHTS. ROAD CLOSED R11-2 (40" X 30").
- ② DETOUR AHEAD W20-2 (36" X 36").
- ③ PORTABLE MESSAGE BOARD ("CONNECTION TO CARTER LANE CLOSED").

- ④ DETOUR M4-8 (24" X 12"). "CARTER LANE" D1-1 (18" X VARIES)
- ⑤ DETOUR LEFT ARROW M4-9 (30" X 24") "CARTER LANE" D1-1 (18" X VARIES).
- ⑥ DETOUR RIGHT ARROW M4-9 (30" X 24") CARTER LANE D1-1 (18" X VARIES).

- ⑦ TYPE III BARRICADE W/WARNING LIGHTS "NO LEFT TURN" R3-2 (24" X 24").
- ⑧ CHANNELIZERS (10' SPACING, TYP.).
- ⑨ SIDEWALK WILL BE UNDER CONSTRUCTION BETWEEN FOXFIRE DRIVE AND PRIVATE DRIVE. WHEN USING THIS ADDITIONAL TRAFFIC CONTROL.



NOTE:

- ① THIS SHEET PROVIDES ADDITIONAL TRAFFIC CONTROL TO BE USED WHEN CONSTRUCTING THE SIDEWALK BETWEEN FOXFIRE DRIVE AND THE PRIVATE DRIVE. SEE SHEET 13 FOR BASE TRAFFIC CONTROL.
- ② CONNECTION TO CARTER LANE SHALL BE OPENED WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING (NIGHTS, WEEKENDS, ECT.).

Revision	By	Date	No.

## CARTER LANE SIDEWALK TRAFFIC SHEET 3

City of Columbia, Missouri  
Department of Public Works



David Allen Nichols  
Registered Professional Engineer  
E-24212  
File No. TAP-2100(524)  
Scale: 1" = 150'  
Date: 10/23/2018  
Des. A.N.H.  
Dwn. C.N.S.  
Chk. A.A.A.

© 2015 Orthophoto Source: Boone County Assessor