ABBREVIATIONS

EXIST. TYP.

(R) CONST.

AGG. N.T.S.

MATCH GRADE PAVEMENT

TOP OF CURB

RIGHT-OF-WAY

ELEVATION RIGHT-OF-WAY

PROPOSED

EXISTING TYPICAL

REMOVAL

CONSTRUCT

CONTROL POINT

USE IN PLACE

NOT TO SCALE

CONCRETE

AGGREGATE

DO NOT DISTURB

TEMPORARY BENCHMARK

EDGE OF PAVEMENT

TEMPORARY CONSTRUCTION EASEMENT

BACK OF CURB TO BACK OF CURB

NW TRAILS END LANE AND NW C STREET STORMWATER IMPROVEMENTS

CITY OF BENTONVILLE, BENTON COUNTY, ARKANSAS

MUNIS# 21EN0011



SECTION 30, T-20-N, R-30-W BENTON COUNTY, ARKANSAS VICINITY MAP

SCALE IN FEET

UTILITY CONTACTS

NATURAL GAS Black Hills Energy 1301 Federal Way P.O. Box 2129 Lowell, AR 72745 Contact: Josh Knight Phone: (479)721-4543

CABLE TELEVISION

COX Communications

Contact: Michael Moore

Phone: (479)871-3473

Email: michael.moore3@cox.com

WATER City of Bentonville 3200 S.W. Municipal Drive Bentonville, AR 72712 Contact: PRESTON NEWBILL (Manager Technical Services) Phone: (479)271-3140

TELEPHONE AT&T 627 White Road Springdale, AR 72766 Contact: Brent Baldwin Phone: (479)200-9022 Email: bb6585@att.com

<u>WASTEWATER</u> City of Bentonville 1901 NE A Street Bentonville, AR Contact: Nancy Busen Phone: (479)271-3160 Email: nbusen@bentonvillear.com Email: adam.parker@arkansas.gov

Email: bboydston@bentonvillear.com DEPARTMENT OF HEALTH Arkansas Department Of Health Division of Engineer, Slot 37 4815 W. Markham Little Rock, AR 72205 Contact: Adam Parker (District 1) Phone: (501)661-2623

FIRE DEPARTMENT

City of Bentonville

Bentonville, AR 72712

Contact: Brent Boydston

Phone: (479)271-5927

800 SW A Street

(Fire Chief)

Email: joshuá.knight@blackhillscorp.com Email: pnewbill@bentonvillear.com

ELECTRIC
City of Bentonville 3200 S.W. Municipal Drive Bentonville, AR 72712 Contact: Charlie Barnes Phone: (479)271-3159 Email: cbarnes@bentonvillear.com

INDEX OF SHEETS

TITLE SHEET

GENERAL NOTES

TRAFFIC CONTROL

SURVEY CONTROL & ALIGNMENT

RIGHT OF WAY EASEMENT PLAN

STORMLINE 131 & STORMLINE 141

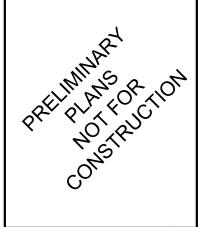
STORMLINE 100 0+00 - 3+00

STORMLINE 100 2+50 - 5+50

DEMOLITION & PAVEMENT REPAIR PLAN

PREPARED & SUBMITTED BY





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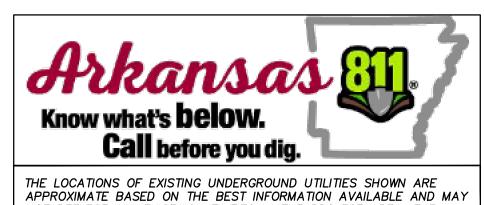
TRAILS END LANE PRELIMINARY

 \geq

60% REVIEW

drawn by: designed by: checked by: project no.: D21-04210 drawing no.: 03.17.2022 SHEET

of



NOT REFLECT ALL EXISTING UTILITIES IN THE PROJECT AREA. THE

AND FOR PROTECTION OF SERVICES DURING CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY

COMPANIES FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION

EXISTING TREE LINE

LEGEND

XIRR IRRIGATION VALVE

POWER POLE

POWER POLE W/LIGHT

SANITARY CLEANOUT

SANITARY MANHOLE

SCHEDULE B-II EXCEPTION

SPRINKLER CONTROL VALVE

STORM MANHOLE

SPRINKLER HEAD

TELEPHONE CABINET

TELEPHONE RISER

TRANSFORMER

TREE REMOVAL

EXISTING SANITARY LINE EXISTING STORM LINE EXISTING GAS LINE EXISTING WATER LINE

EXISTING UNDERGROUND POWER EXISTING UNDERGROUND TELEPHONE EXISTING UNDERGROUND CABLE/TV

EXISTING UNDERGROUND FIBER OPTIC

EXISTING UNDERGROUND TRAFFIC

EXISTING OVERHEAD ELECTRIC EXISTING OVERHEAD TELEPHONE EXISTING OVERHEAD CABLE/TV EXISTING WOVEN WIRE FENCE EXISTING CHAIN LINK FENCE

VENT PIPE WATER MANHOLE

TELEPHONE PEDESTAL

FOUND MONUMENT (AS NOTED)

BREAKER Box

CABLE BOX

CONIFEROUS Tree

DECIDUOUS TREE

ELECTRIC BOX

ELECTRIC BOX

ELECTRIC METER

ELECTRICAL OUTLET

FLARED END SECTION

GAS VALVE GAS VAULT

FIRE DEPT. CONNECTION

CAMERA

COLUMN

DEEDED

SET 1/2" REBAR W/PLASTIC CAP, "LC 366"

SET 5/8" REBAR w/aluminum cap, "LC 366"

GENERAL NOTES:

- 1. ALL WORK PRESENTED, IMPLIED, AND/OR COMPLETED AS A PART OF THIS PLAN SET SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE CITY OF BENTONVILLE UNLESS SPECIFICALLY STATED OTHERWISE. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS (APPROVED BY CITY OF BENTONVILLE) AND ONE (1) COPY OF ALL APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE SITE AT ALL TIMES.
- THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483, AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!
- 3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
- 5. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND THE GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY.
- THE JOB SITE SHALL BE A DRUG FREE WORK PLACE, CONSUMPTION OF ALCOHOLIC BEVERAGES ON THE JOB SITE IS STRICTLY PROHIBITED.
- ALL SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT—OF—WAY.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND SPECIFICATIONS.
- 10. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
- 1. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
- 12. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO THE ENGINEER FOR APPROVAL OF ALL AREAS TO BE USED FOR STAGING, MOBILIZATION, EQUIPMENT AND MATERIAL STORAGE AND GENERAL PROJECT CONSTRUCTION MANAGEMENT. REQUEST SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE NOTICE TO PROCEED.
- 13. NO EQUIPMENT OR MATERIAL SHALL BE DEPOSITED ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH ACTS AND SHALL REMOVE THE MATERIAL AND RESTORE THE PROPERTY AT THE EXPENSE OF THE CONTRACTOR.
- 14. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM UNLESS APPROVED OR DIRECTED BY THE ENGINEER.
- 15. THE CITY OF BENTONVILLE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION AND REMOVAL ITEMS SUCH AS SIGNAGE, POLES, SIGNAL EQUIPMENT, ETC. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS FOR A TIME AND LOCATION TO DELIVER THOSE ITEMS TO THE CITY. CONSTRUCTION DEBRIS SUCH AS BROKEN CONCRETE, EXCESS FILL, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE PRIOR TO ACCEPTANCE OF THE PROJECT. ALL MATERIAL SHALL BE DISPOSED OF IN A MANNER THAT IS IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 16. UNLESS SPECIFICALLY STATED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING METERS, VALVES, VALVE BOXES, BUILDING DRAINS, STORM AND SANITARY MANHOLES, ETC., TO MATCH FINISHED GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL SANITARY SERVICE LINES WHERE REQUIRED TO MAINTAIN CONTINUOUS SERVICE. THE CONTRACTOR SHALL CONTACT CITY OF BENTONVILLE TO COORDINATE THE ADJUSTMENT OF EXISTING WATER FACILITIES.
- 17. THE CONTRACTOR SHALL PROTECT EXISTING RIGHT—OF—WAY AND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ARKANSAS.
- 18. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SCHEDULE OF OPERATIONS AT THE BEGINNING OF EACH WEEK.
- 19. ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY.
- 20. THE CONTOUR LINES & SPOT ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS AND DETAILS FOR SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS. CLEAN STREETS OF CONSTRUCTION DEBRIS DAILY.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL UTILIZE AND COMPLY WITH ALL REQUIREMENT OF THE CITY OF BENTONVILLE'S LAND DISTURBANCE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ALL EROSION AND SEDIMENT CONTROL PLANS SHALL BE INCORPORATED IN THE SWPPP. CONTRACTOR SHALL MAINTAIN THE SWPPP THROUGHOUT THE PROJECT AND COMPLETE THE REQUIRED DOCUMENTATION UNTIL THE SITE IS STABILIZED AND ACCEPTED BY THE ENGINEER.
- 23. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE(S) AT THE EXIT OF THE WORK SITE AS DETERMINED BY THE CONTRACTOR. TEMPORARY CONSTRUCTION ENTRANCE SHALL HAVE SHOT ROCK FOR ITS SURFACE. THE CONTRACTOR SHALL UPDATE SWPPP FOR EACH PHASE OF THE PROJECT TO SHOW THE LOCATION OF TEMPORARY CONSTRUCTION ENTRANCE AND CONCRETE CLEAN OUT.
- 24. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR.
- 25. CONTRACTOR TO PROTECT ANY STORM INLETS FROM SEDIMENT THAT TAKE STORM WATER FROM THE AREA OF CONSTRUCTION.
- 26. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE PROPERTIES TO ORIGINAL OR BETTER CONDITION.
- 28. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING GRADING ACTIVITIES.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS DURING CONSTRUCTION OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER.
- 30. THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITEWORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER & ENGINEER.
- 31. STRIPPINGS ARE TO BE STOCKPILED. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON AREAS BETWEEN THE SIDEWALK AND BACK OF CURB. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, STABILIZE OR PROTECT THE PERIMETER AS PER SPECIFICATIONS.
- 32. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL.
- 33. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN IN THE PLANS, NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL EXCEPT WHERE NOTED ON THE PLANS.
- 34. ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT—OF—WAY SHALL BE COMPACTED TO 95% MAX DENSITY AS PER ASTM—D698 (STANDARD PROCTOR COMPACTION).

- 35. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING FACILITIES.
- 36. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT SHOWN WITHIN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY CONSTRUCTION ACTIVITIES.
- 7. NO SEPARATE MEASUREMENTS AND PAYMENT WILL BE MADE FOR TRENCH EXCAVATION AND BACKFILL REQUIRED FOR STORM SEWER CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF MATERIAL FROM STORM SEWER TRENCHING.
- 38. CONTRACTOR SHALL PROTECT ALL EXISTING BUILDINGS DURING CONSTRUCTION. PRIOR TO BEGINNING THE CONTRACTOR SHALL COLLECT CONSTRUCTION PHOTOS/VIDEOS OF ALL EXISTING STRUCTURES WITHIN 50 FT OF LIMITS OF CONSTRUCTION TO DOCUMENT EXISTING STRUCTURE CONDITIONS.
- 39. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONVEYANCE DURING CONSTRUCTION.
- O. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES AND PIPE FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER. THE SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS. THE CONTRACTOR MUST RECEIVE APPROVAL OF THE SUBMITTED SHOP DRAWINGS PRIOR TO FABRICATION. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
- 41. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL BUSINESSES AT ALL TIMES IN ACCORDANCE WITH THE CITY OF BENTONVILLE, ADA, PROWAG, AND MUTCD REQUIREMENTS, INCLUDING TEMPORARY ACCESS AND SAFETY REQUIREMENTS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
- 42. NO EQUIPMENT, MATERIALS, AND/OR DEBRIS SHALL BE STORED WITHIN THE TREE DRIPLINE (IN ALL DIRECTIONS).
- 43. NO PRUNING SHALL BE PERFORMED EXCEPT BY OR IN THE PRESENCE OF AN APPROVED LICENSED ARBORIST.
- 44. ALL STORM SEWER PIPE LENGTHS ARE MEASURED FROM THE INSIDE FACE OF THE DOWNSTREAM STRUCTURE TO THE INSIDE FACE OF UPSTREAM STRUCTURE ALONG THE CENTERLINE, (FOR BIDDING AND PAYMENT PURPOSE ONLY)
- 45. THE LOCATION POINT FOR ALL STORM SEWER STRUCTURES SHALL BE CENTER OF STRUCTURE AND ALL DIMENSIONS ARE INSIDE OF STRUCTURE WIDTHS AS INDICATED ON PLAN SHEETS.
- 46. TRIPLE AND DOUBLE INLETS TO HAVE OPENING ALLOWING DRAINAGE BETWEEN THE TWO STRUCTURES, OPEN AREA TO BE GREATER THAN OR EQUAL TO DOWNSTREAM OPENING AREA.
- 47. GROSS EARTHWORK QUANTITIES ARE CALCULATED FROM THE EXISTING GRADE SURFACE TO THE FINISHED GRADE SURFACE AND DO NOT INCLUDE ADDITIONS FOR GRANULAR BACKFILL, STORM SEWER, CURB AND GUTTER, ETC.

SUMMARY OF QUANTITIES:

	Base Bid Quantities		
Item No.	Desctiption	No. Unit	Unit Type
1	Insurance and Bonding	LS	1
2	Mobilization	LS	1
3	Temporary Traffic Control	LS	1
4	Erosion and Sediment Control	LS	1
5	Tree Removal, Clearing & Grubbing	LS	1
6	Demolition	LS	1
7	Mountable Curb & Gutter	LF	500
8	Concrete Driveway Replacement	SY	50
9	Asphaltic Pavement Replacement	SY	721
10	Riprap	SY	16
11	Haul-In Fill	CY	370
12	Seeding	AC	0.03
13	7'X5' Triple Neenah R-3295-L	EACH	2
14	7'X4' Triple Neenah R-3295-L	EACH	3
15	4'X4' Junction Box	EACH	1
16	5'X5' Junction Box	EACH	1
17	6'X6' Junction Box	EACH	1
18	36" RCP FES	EACH	1
19	36" RCP	LF	119
20	24" RCP	LF	102
21	18" RCP	LF	238

PRELIMINARY OR TIONS
PRELIMINARY OR TRUCTIONS
CONSTRUCTIONS
CONSTRUCTIONS

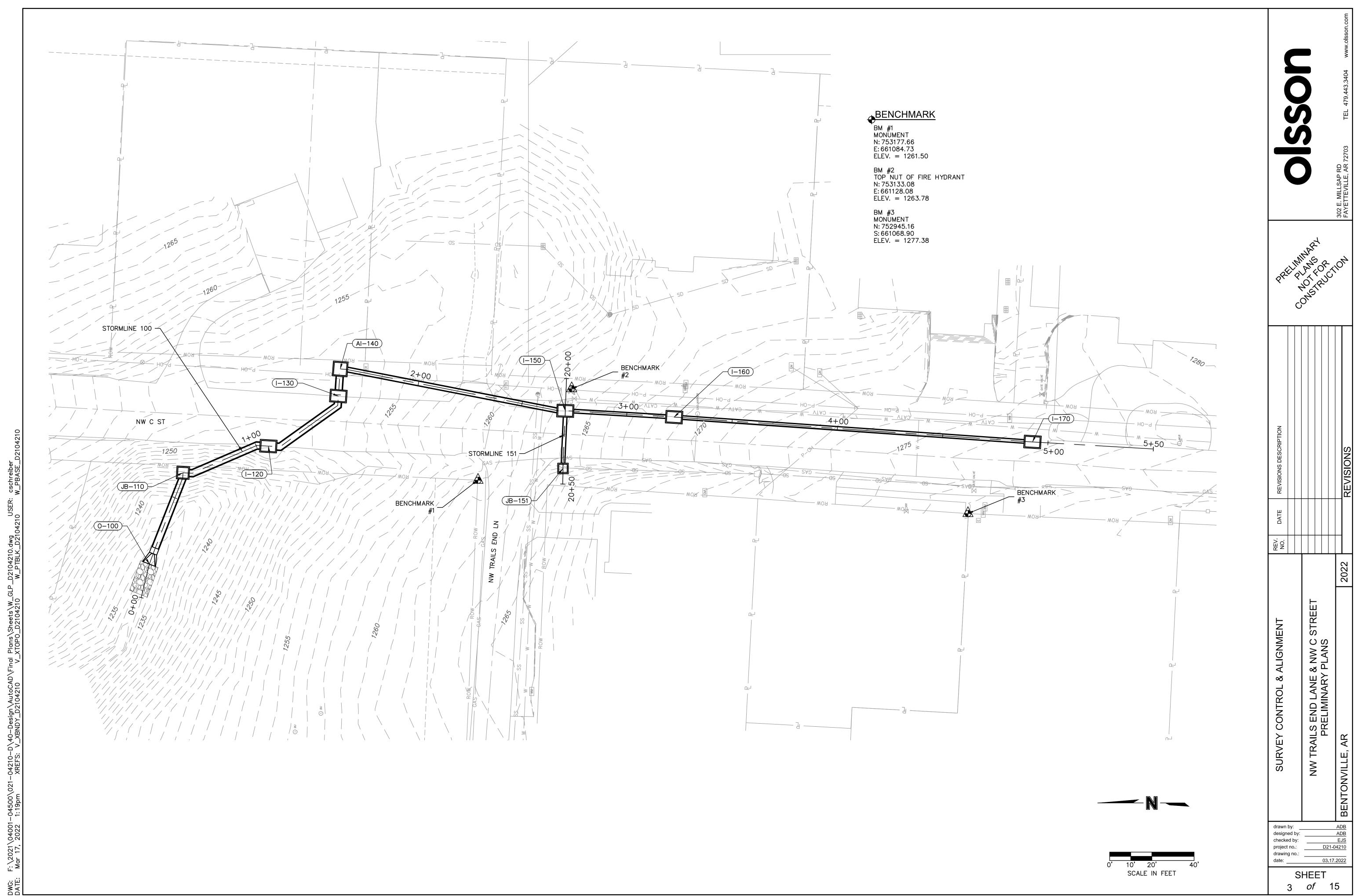
REV. DATE REVISIONS DESCRIPTION
NO.

JW TRAILS END LANE & NW C STREET
PRELIMINARY PLANS

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designed by:
checked by:
project no.:
drawing no.:
date:

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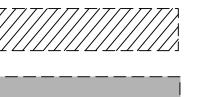
SHEET 2 *of* 15





	EASEMENT INFORM	ATION	
PARCEL NUMBER	OWNER/ OWNER ADDRESS	PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT
1	BLACK APPLE CREEK, LLC PO BOX 1860 BENTONVILLE, AR 72712	1,295 SF	2,128 SF
2	JMH, LLC 2714 OTIS CORLEY DR BENTONVILLE, AR 72712		842 SF
3	JMH, LLC 2714 OTIS CORLEY DR BENTONVILLE, AR 72712		835 SF
4	FERGUSON FAMILY TRUST 301 NW RED BARN CIR UNIT 33 BENTONVILLE, AR 72712		96 SF
5	RICARDO DE ALMEIDA VAZ, BRUNO & GONCALVES CARREIRO DO OLIVEIRA, MARINA 401 TRAILS END LN BENTONVILLE, AR 72712		84 SF

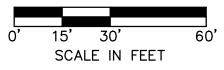
LEGEND



PERMANENT DRAINAGE EASEMENT



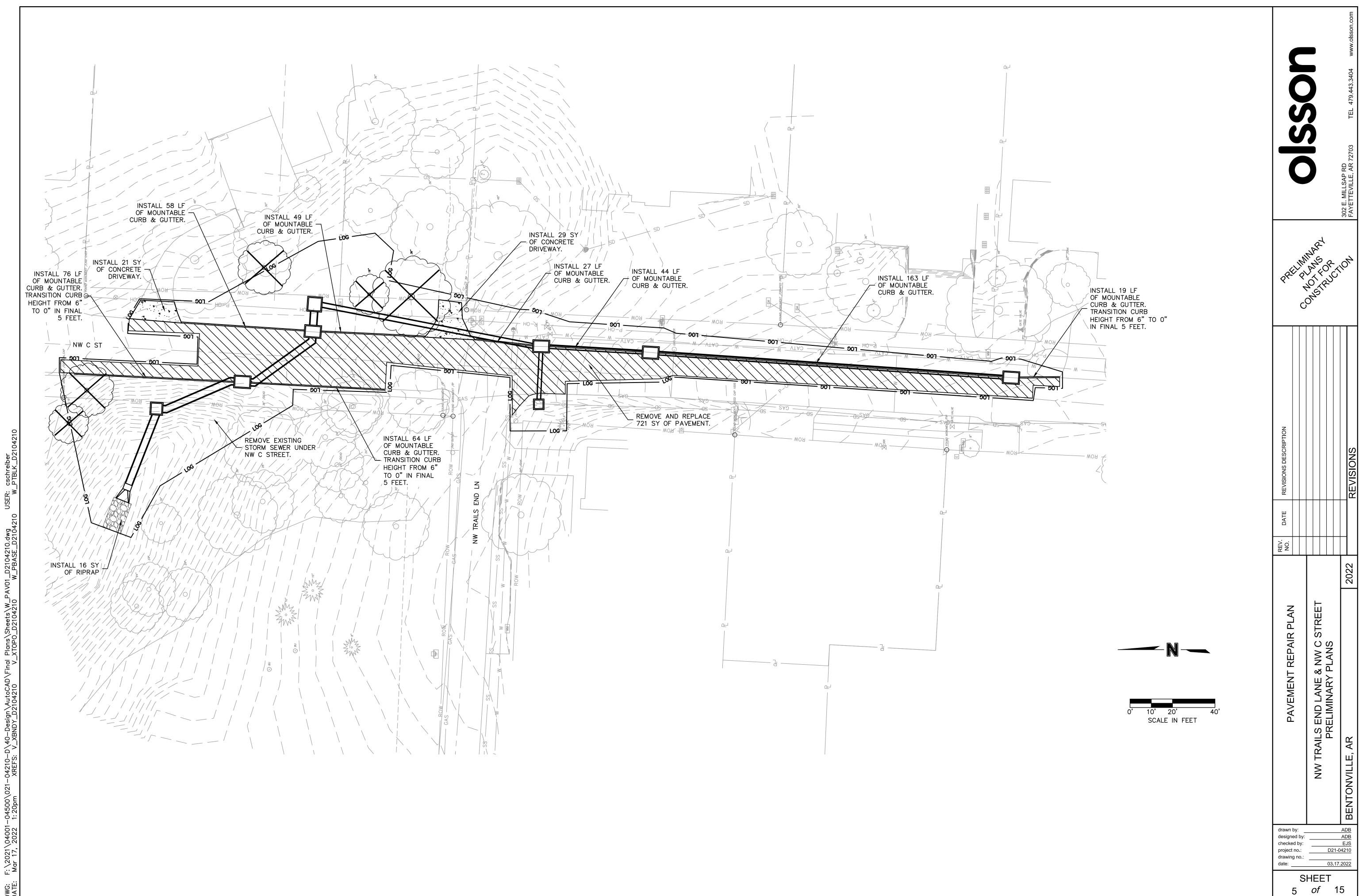
TEMPORARY CONSTRUCTION EASEMENT

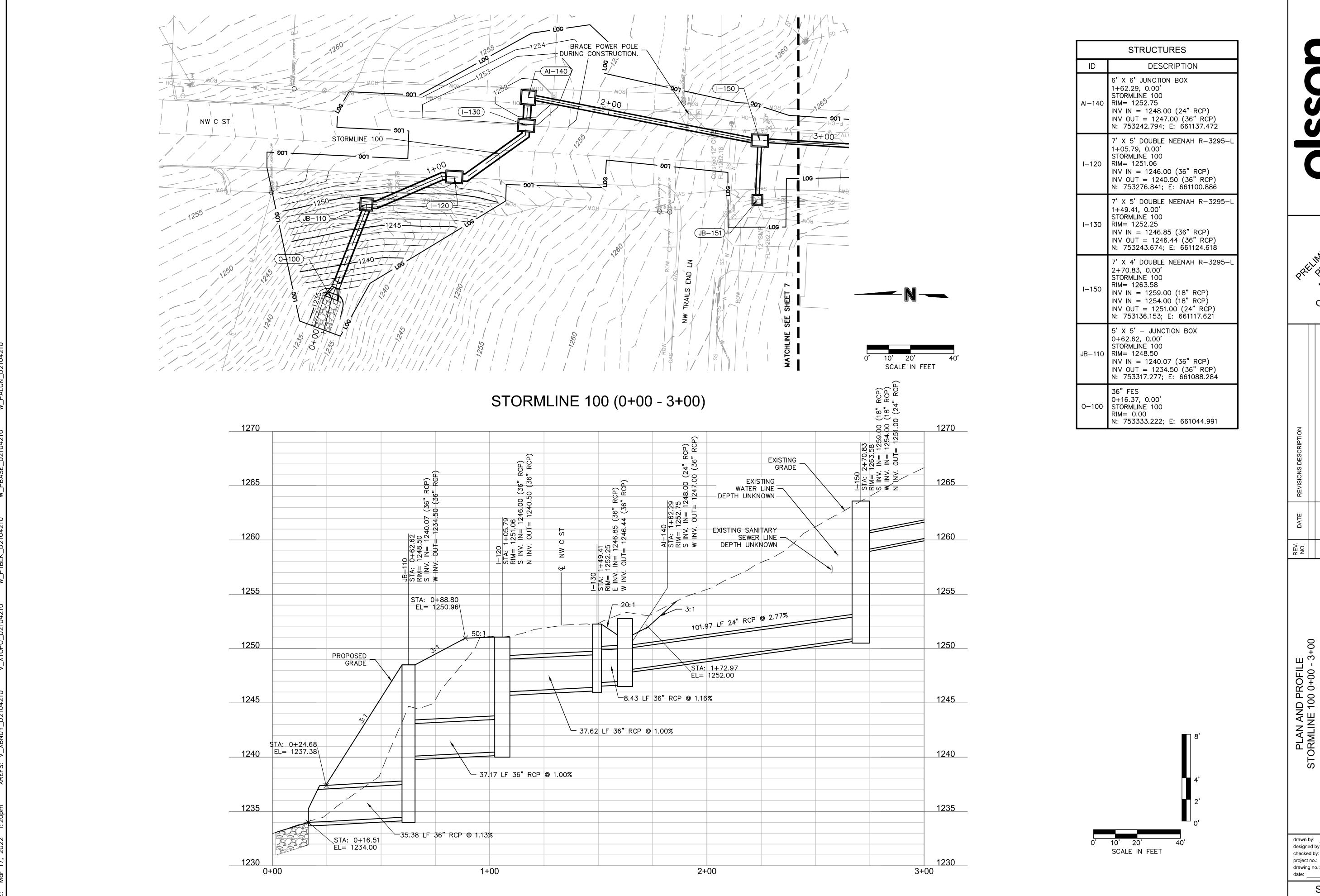


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	2022			

NW TRAILS END LANE & NW C S PRELIMINARY PLANS

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project no.:
drawing no.:
date: SHEET 4 *of* 15

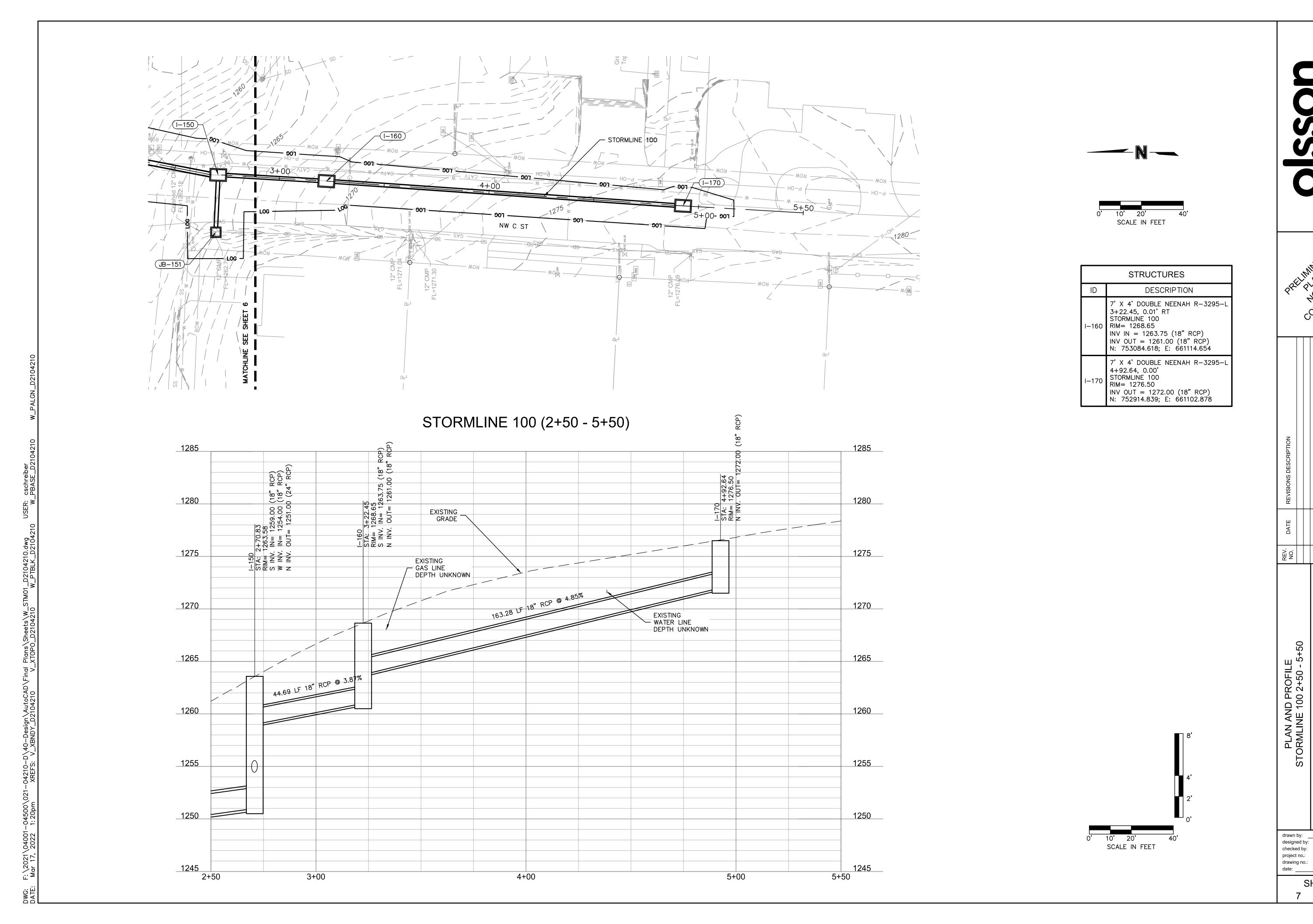




NW TRAILS END LANE & NW C STREET PRELIMINARY PLANS

designed by: EJS D21-04210 project no.: drawing no : 03.17.2022

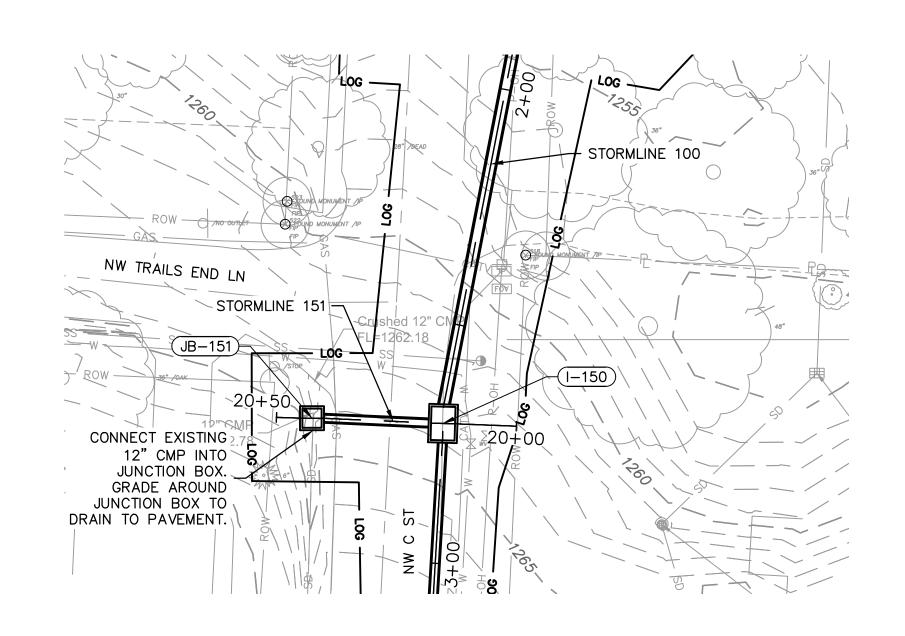
> SHEET 6 *of* 15



NW TRAILS END LANE & NW C STREET PRELIMINARY PLANS

ADB
ADB
EJS
D21-04210

project no.: drawing no.: date: 03.17.2022 SHEET 7 *of* 15



STORMLINE 151 (20+00 - 20+50)

| 1-150 | STA: 2+70.83 | RIM= 1263.58 | S INV. IN= 1259.00 (18" RCP) | W INV. IN= 1254.00 (18" RCP) | N INV. OUT= 1251.00 (24" RCP)

1275

___1270

1265

___1260

1255

___1250

___1245 _____20+00

8 (127) .70 (18, CMP) .70 (18, LVP)

EXISTING

GAS LINE

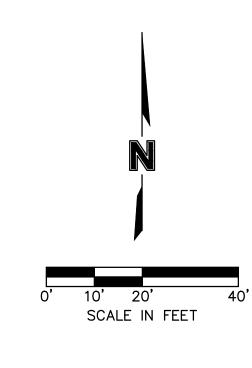
DEPTH UNKNOWN

30.00 LF 18" RCP @ 5.00%

1250

____<u>1245</u> 20+50

	STRUCTURES
ID	DESCRIPTION
JB-151	4' X 4' - JUNCTION BOX 20+42.59, 0.00' STORMLINE 151 RIM= 1264.50 INV IN = 1262.78 (12" CMP) INV OUT = 1255.70 (18" RCP) N: 753137.268; E: 661090.320



NW TRAILS END LANE & NW C STREET PRELIMINARY PLANS

ADB
ADB
EJS
D21-04210

SHEET 8 *of* 15

03.17.2022

PLAN AND PROFILE STORMLINE 131 & STORMLINE 141

drawn by: ___
designed by:
checked by:
project no.:
drawing no.:
date:

		8'
		2'
0'	10' 20' SCALE IN FEET	40'

		ı	∏ 8'
			2'
	- 18-18 <u>-</u>		o'
,	10' 2 SCALE	40 T	,

GENERAL NOTES:

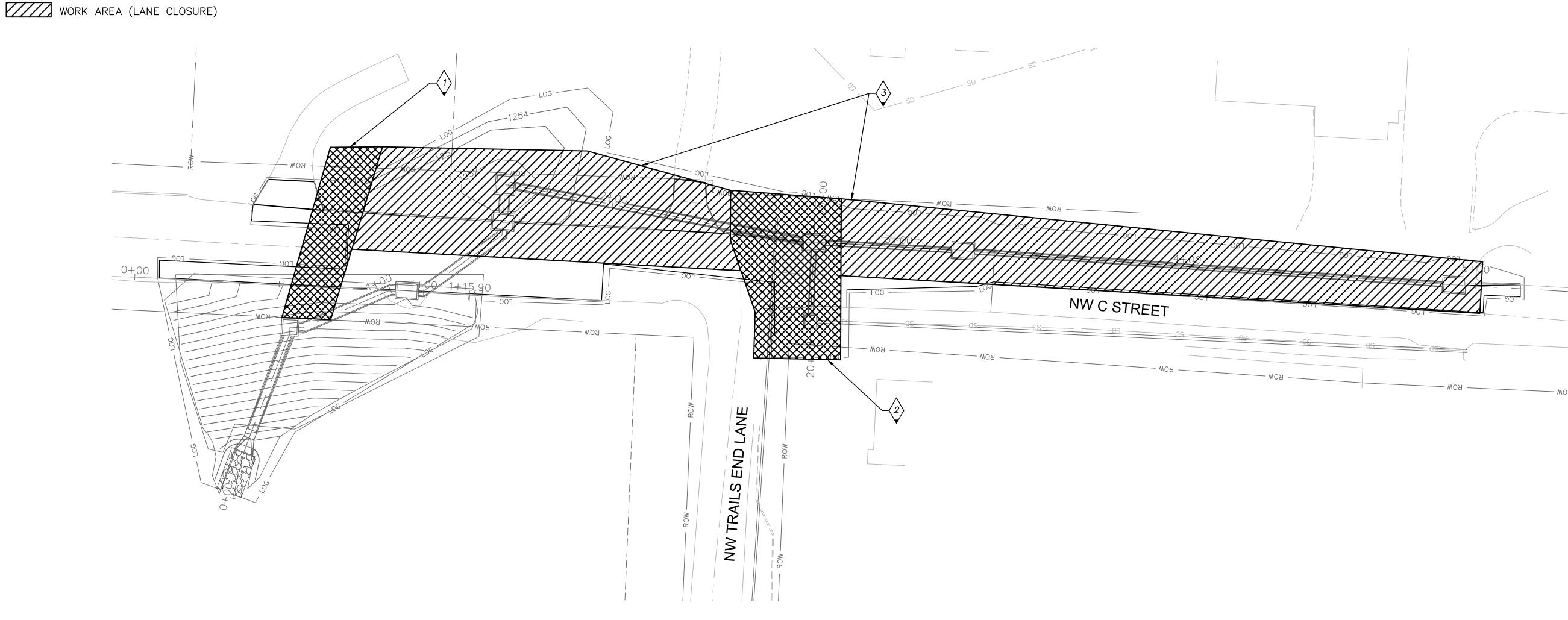
- 1. ROADWAY CLOSURES SHALL OCCUR IN STAGES AND/OR TEMPORARY ACCESS PROVIDED SO THAT PRIVATE ACCESS IS MAINTAINED AT ALL TIMES. ACCESS TO TRAILS END LANE SHALL BE MAINTAINED AT ALL TIMES.
- 2. ALL TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE STANDARDS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE CITY OF BENTONVILLE "MINIMUM STANDARD SPECIFICATIONS FOR STREETS". WHERE THE CITY OF BENTONVILLE SPECIFICATIONS ARE NOT APPLICABLE, ARKANSAS DEPARTMENT OF TRANSPORTATION (ARDOT) STANDARDS SHALL ALSO APPLY.
- 3. ADDITIONAL REQUIREMENTS ON STANDARD TRAFFIC CONTROL DETAIL SHEETS PROVIDED HEREIN SHALL ALSO APPLY.
- 4. AS WITH ALL CONSTRUCTION ACTIVITIES, TRAFFIC SITUATIONS ARE SUBJECT TO CHANGE. ANY ALTERNATE TRAFFIC CONTROL AND/OR DETOUR PLANS SHALL RECEIVE WRITTEN APPROVAL FROM THE CITY ENGINEER PRIOR TO COMMENCEMENT.

LEGEND

WORK AREA (FULL CLOSURE)

CONSTRUCTION NOTES:

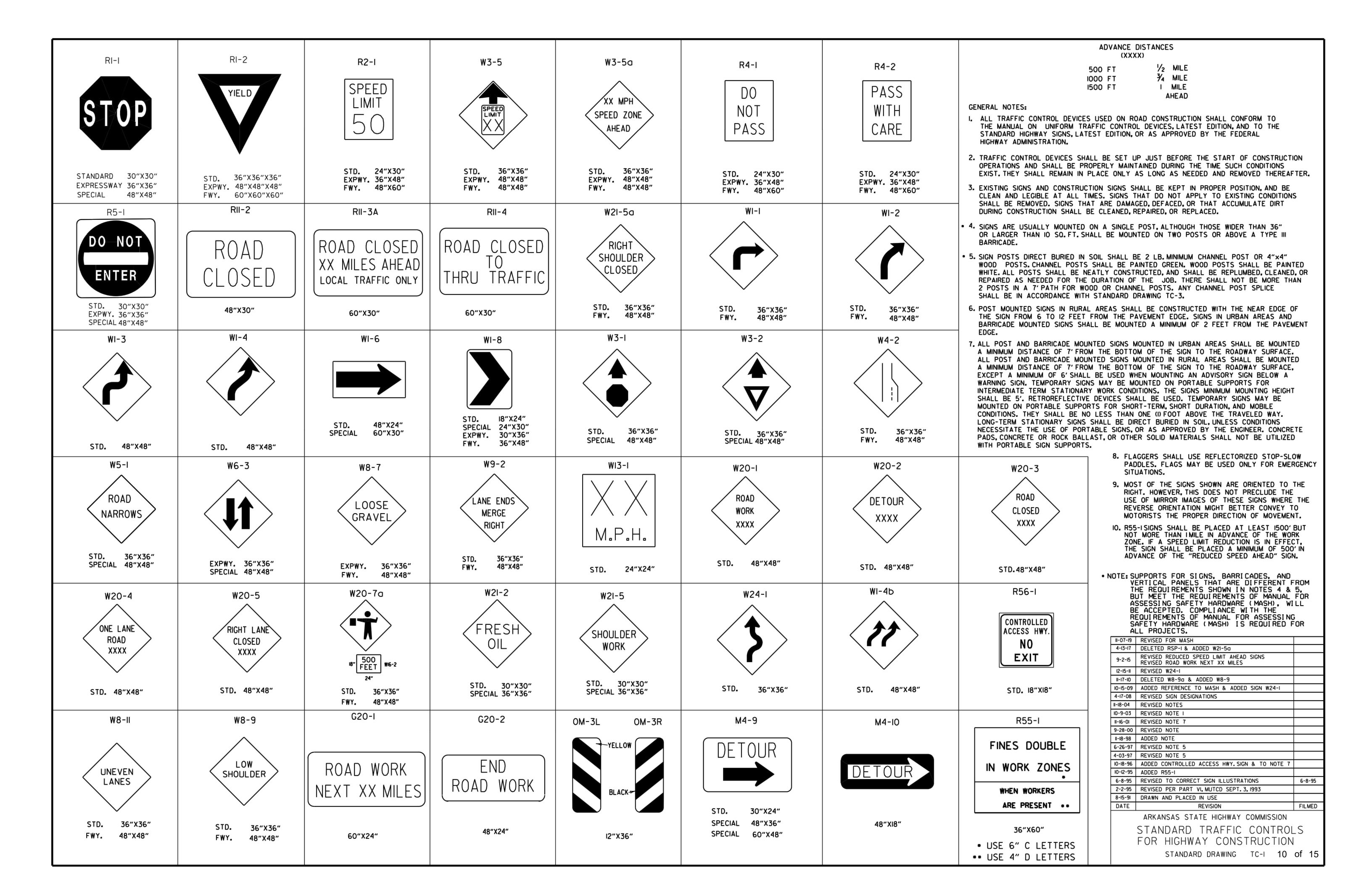
- $\langle i \rangle$ FULL CLOSURE OF C STREET FOR STORM CROSSING INSTALLATION. SHEET DETAIL 4 ON SHEET 15. CLOSURE SHALL OCCUR INDEPENDENTLY FROM CLOSURE DESCRIBED IN NOTE 2 BELOW.
- $\langle 2 \rangle$ FULL CLOSURE OF C STREET FOR STORM CROSSING INSTALLATION. SHEET DETAIL 4 ON SHEET 15.CLOSURE SHALL OCCUR INDEPENDENTLY FROM CLOSURE DESCRIBED IN NOTE 1 ABOVE.
- $\langle \mathfrak{z} \rangle$ LANE CLOSURE OF C STREET WITH FLAGGER OPERATIONS. SEE DETAIL E ON SHEET 11.

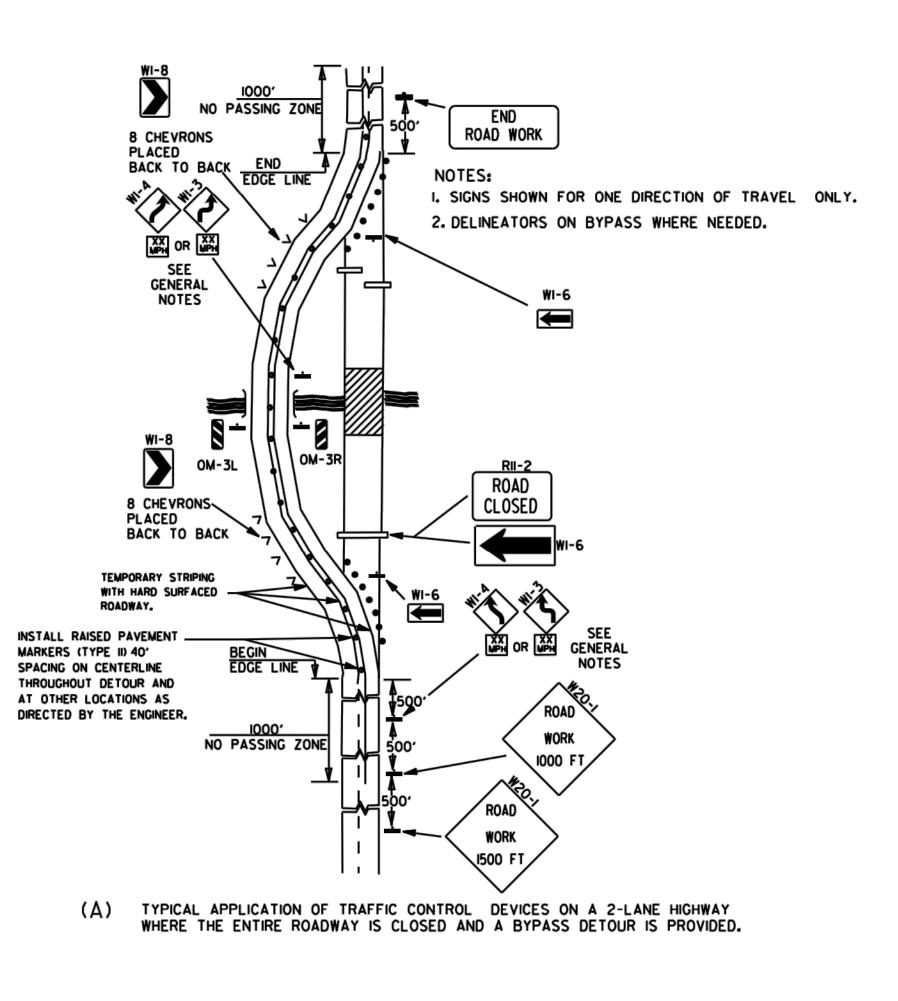


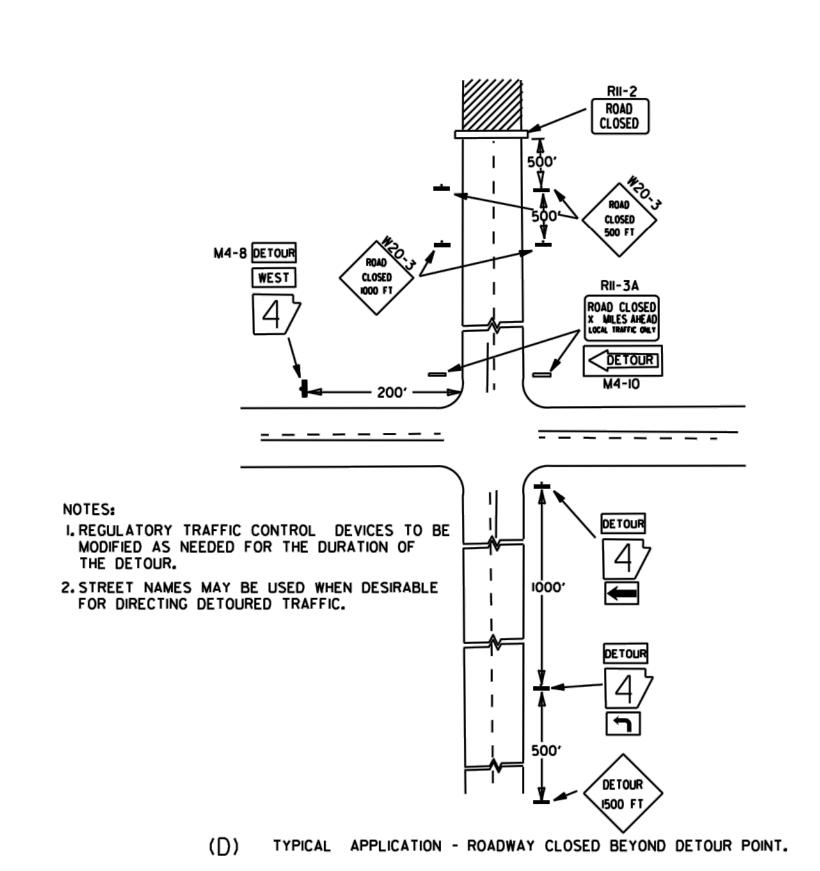
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drawing no.: F TRFC D0214210
date: 03.17.2022

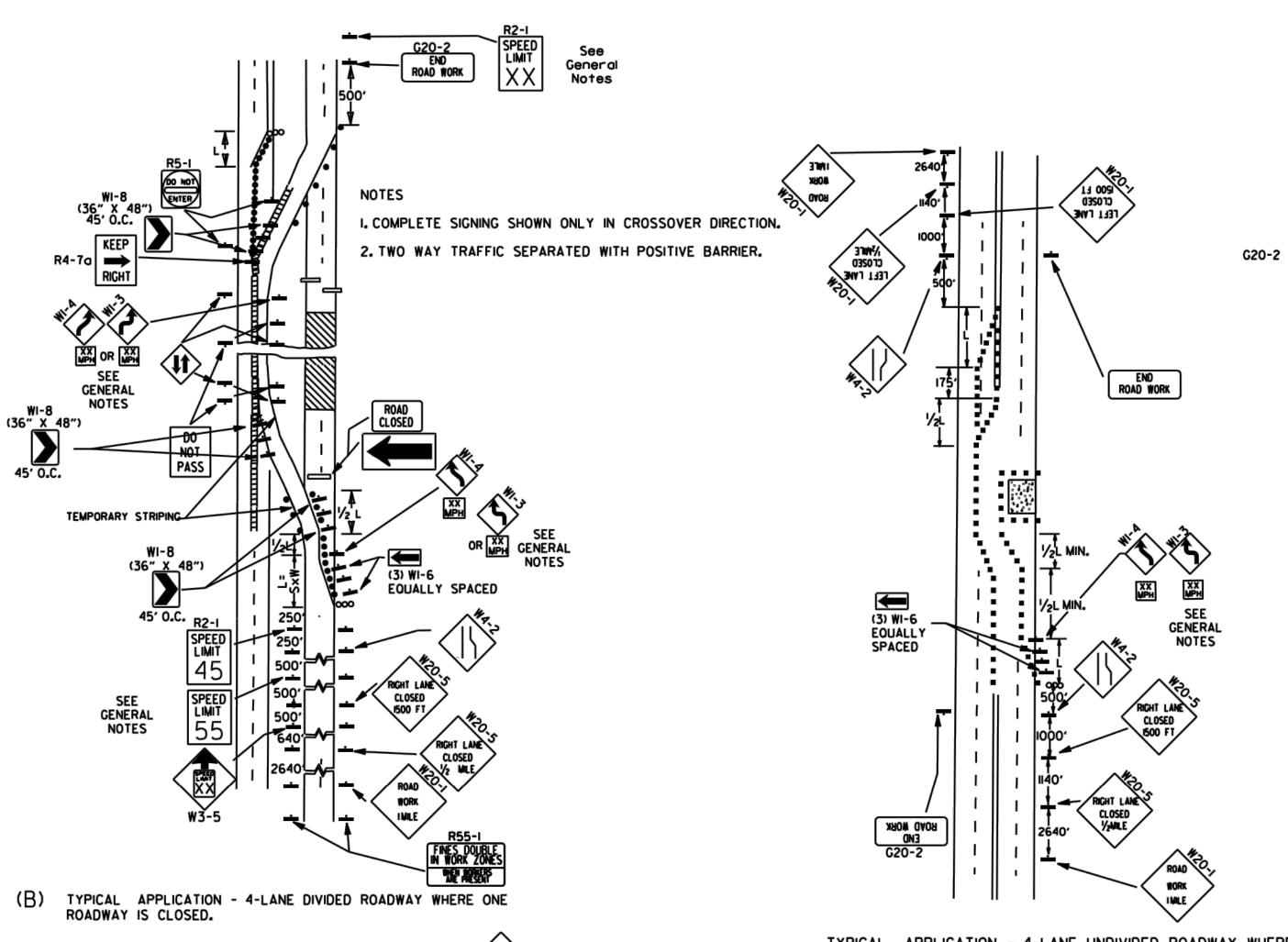
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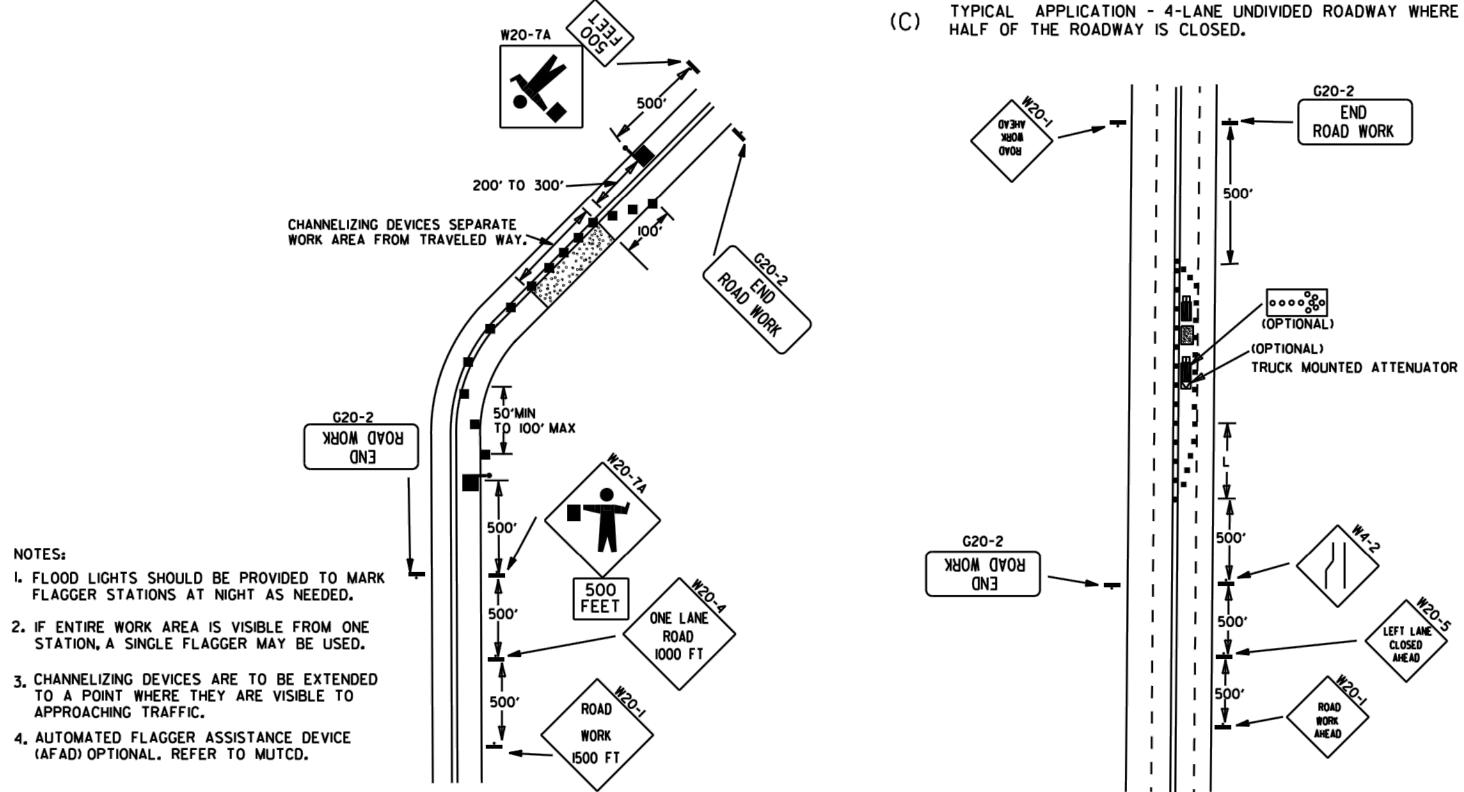
10' 20' SCALE IN FEET











TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE

HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE

(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER

DEVICES. 8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY

CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED

KEY:

RED/CLEAR OR YELLOW/YELLOW

L=SXW FOR SPEEDS OF 45MPH OR MORE.

L= WS FOR SPEEDS OF 40MPH OR LESS.

2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE

OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT

SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.

TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.

REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.

5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED

3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS

INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-KXX)

LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE

AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK

SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES

6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE

7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE

CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING

SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE

CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC

REQUIRE A SPEED LIMIT OF 55MPH. THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED

AREA A R2-KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK

I. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN

L= MINIMUM LENGTH OF TAPER.

OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

묘 G20-I

1000 FT

₩20-I I500 FT

TYPICAL ADVANCE WARNING SIGN PLACEMENT TAPER FORMULAE:

WHERE:

GENERAL NOTES:

30MPH OR LESS

FLAGGER

POSITIVE BARRIER

TYPE I BARRICADE

TRAFFIC DRUM

CHANNELIZING DEVICE

ARROW PANEL (IF REQUIRED)

RAISED PAVEMENT MARKER

PRISMATIC REFLECTOR

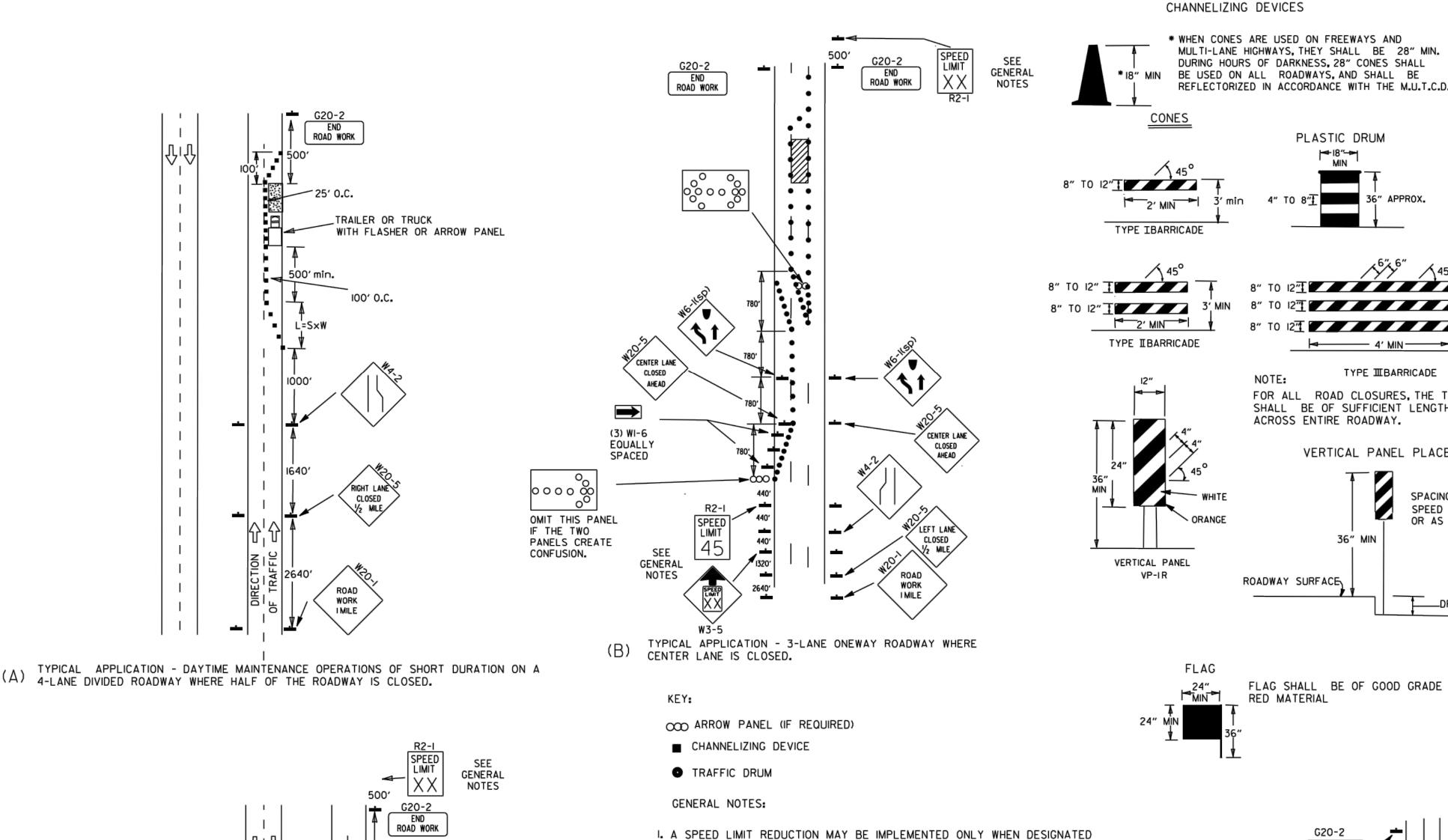
DETAIL OF RAISED PAVEMENT MARKERS

BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST. 9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE I, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
II-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-I	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON WI-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-2 11 of 15



TRAFFIC CONTROL DEVICES NON-INTERSTATE VERTICAL TRAFFIC CONTROL LOCATION DIFFERENTIAL ≤ 45 MPH > 45 MPH CENTERLINE W8-11 W8-11 ≤ 1" > 1" W8-11 AND CENTERLINE LANE | W8-11 AND CENTERLINE LANE CENTERLINE ≤ 3" STRIPING STRIPING CENTERLINE > 3" STANDARD LANE CLOSURE (6) | STANDARD LANE CLOSURE (6) EDGE OF TRAVELED LANE ≤ 3" W8-9 AND TRAFFIC DRUMS (1 W8-9 AND TRAFFIC DRUMS(1) OR EDGE OF SHOULDER W8-17, EDGE LINE STRIPING, W8-17, EDGE LINE STRIPING, > 3" EDGE OF TRAVELED LANE OR EDGE OF SHOULDER ≤ 6" AND TRAFFIC DRUMS(1) AND TRAFFIC DRUMS(1) W8-17, EDGE LINE STRIPING W8-17, EDGE LINE STRIPING, EDGE OF TRAVELED LANE OR EDGE OF SHOULDER ≤ 18" AND TRAFFIC DRUMS(1) AND TRAFFIC DRUMS(2) STABILIZED WEDGE, W8-17 EDGE OF TRAVELED LANE W8-17, EDGE LINE STRIPING EDGE LINE STRIPING, AND OR EDGE OF SHOULDER AND TRAFFIC DRUMS(1) TRAFFIC DRUMS(3) PRECAST CONCRETE EDGE OF TRAVELED LANE PRECAST CONCRETE > 24" OR EDGE OF SHOULDER BARRIER⁽⁴⁾ & EDGE LINES BARRIER⁽⁴⁾ & EDGE LINES GENERAL NOTES: WHEN THE SHOULDER AREA IS USED AS PART INTERSTATE OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS LOCATION TRAFFIC CONTROL DIFFERENTIAL ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED. ≤ 3" CENTERLINE W8-11 AND LANE STRIPING W8-9. EDGE LINE STRIPING. EDGE OF TRAVELED LANE OR EDGE OF SHOULDER AND TRAFFIC DRUMS(2) W8-17, EDGE LINE STRIPING, EDGE OF TRAVELED LANE > 3" OR EDGE OF SHOULDER AND TRAFFIC DRUMS(2) ≤ 6" FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES EDGE OF TRAVELED LANE PRECAST CONCRETE BARRIER OR EDGE OF SHOULDER & EDGE LINES

> INTERSTATE AND NON-INTERSTATE **FORESLOPE** TRAFFIC CONTROL **HEIGHT** PRECAST CONCRETE BARRIER 1:1 > 2 FT 2:1 ≤ 5 FT TRAFFIC DRUMS PRECAST CONCRETE BARRIER > 5 FT 2:1 Flatter than 2:1 N/A TRAFFIC DRUMS STOP SLOW PADDLE

TRAVELED WAY _ STABILIZED WEDGE

WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH. A STABILIZED WEDGE SHALL BE USED. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS IF AND WHERE DIRECTED BY THE ENGINEER. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL IF AND WHERE DIRECTED BY THE ENGINEER. W2I-5, W2I-5a, AND/OR W2I-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED F AND WHERE DIRECTED BY THE ENGINEER. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

STANDARD TRAFFIC CONTROLS

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FOR HIGHWAY CONSTRUCTION

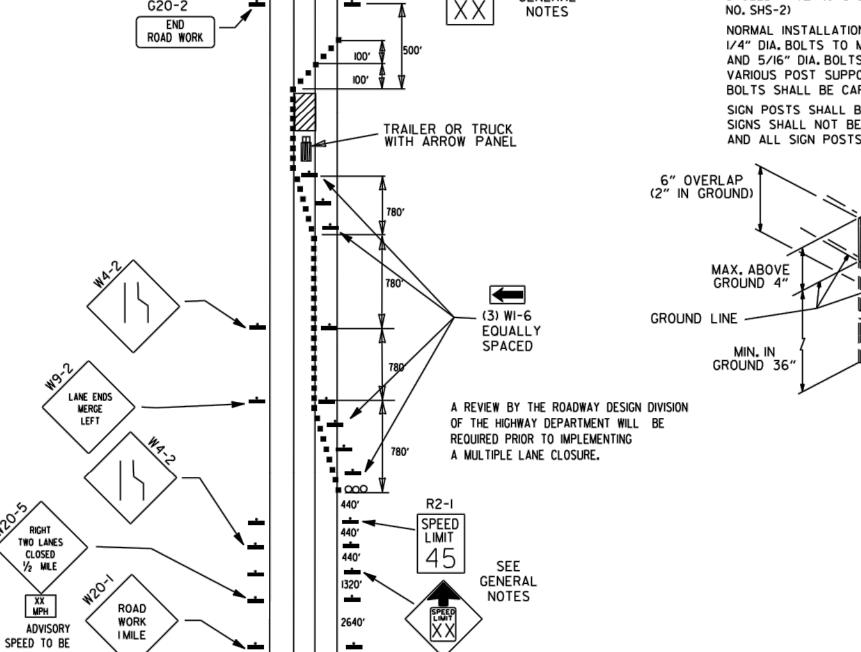
STANDARD DRAWING TC-3

NOT EXTEND ABOVE SIGN

ADDITIONAL

6" SERIES LEGEND COLORS LEGEND-BLACK LEGEND-WHITE (REFL) BACKGROUND-ORANGE (REFL) BACKGROUND-RED (REFL) AREA OUTSIDE DIAMOND-BLACK ESIGN BOLT STABILIZED WEDGE MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS. & SPLICE BOLTS NOTES: USE SPLICES ONLY WHEN NECESSARY SPEED FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING GENERAL NOTES NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE

FRONT



DETERMINED AT

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

PLASTIC DRUM

8" TO 12"

8" TO 12"

ACROSS ENTIRE ROADWAY.

ROADWAY SURFACE

RED MATERIAL

TYPE TEBARRICADE

SHALL BE OF SUFFICIENT LENGTH TO EXTEND

VERTICAL PANEL PLACEMENT

36" MIN

FLAG SHALL BE OF GOOD GRADE

SPACING = 2 X POSTED

OR AS NOTED ON PLANS

_DROP_OFF > 3"

TRAFFIC DRUMS TRAILER OR TRUCK WITH ARROW PANEL (3) WI-6 EQUALLY SPACED 500' min. TRAFFIC DRUMS 100' O.C. SPEED LIMIT ROAD WORK NEXT X.X MILES SEE NOTES GENERAL-CLOSED 1500 FT CLOSED WORK

TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.

2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-I(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-I(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-I(45) SHALL BE OMITTED. ADDITIONAL R2-I55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-I(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.

5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED

TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED. 6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.

7. THE G20-ISIGN WILL BE REQUIRED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-ISIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-I (I MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS.

8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.

9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

IO. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.

II. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

OVERLAP GROUND — SIGN POST VARIOUS POST SUPPORTS, EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS. SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB. GROUND LINE-DETAIL OF SPLICES REVISED TRAFFIC CONTROL DEVICES AND NOTES 08-12-21 05-20-21 REVISED NOTE IO REVISED TRAFFIC CONTROL DEVICES DETAILS REVISED NOTE 9, ADDED NOTE II REVISED TRAFFIC CONTROL DEVICES DETAILS REVISED NOTE 2 & REPLACED R2-5A WITH W3-5 9-2-15 10-15-09 ADDED REFERENCE TO MASH 11-20-08 REVISED SIGN DESIGNATIONS 11-18-04 ADDED NOT 10-1-98 ADDED NOTE ADDED (SP) TO W6-I& REVISED TRAFFIC CONTROL DEVICES NOTE ADDED R55-I MOVED UPPER SPLICE REVISED SPLICE DETAIL, TEXT 6-8-95 6-8-95 REVISED PER PART VI. MUTCD, SEPT. 3, 1993 DRAWN AND PLACED IN USE 8-15-91 ARKANSAS STATE HIGHWAY COMMISSION

