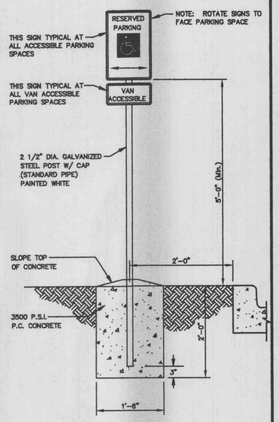
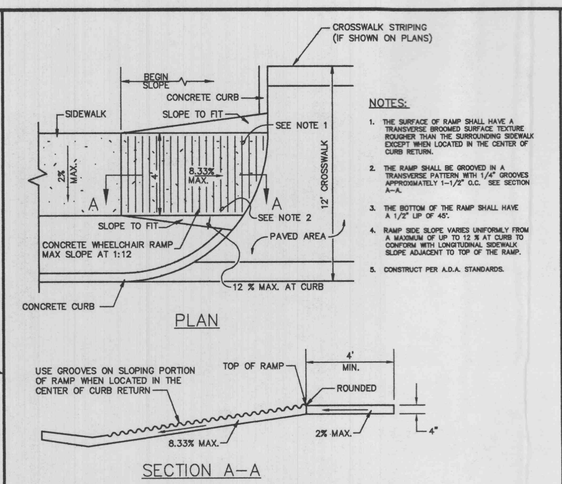


ACCESSIBLE PARKING SIGN 9S

N.T.S.

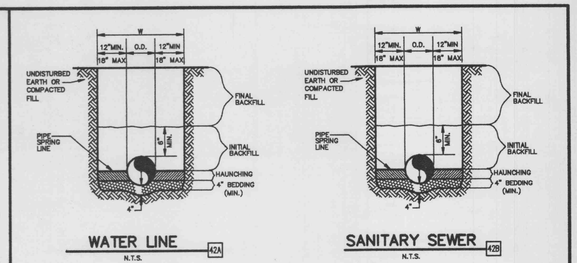


NOTES:

1. THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK EXCEPT WHEN LOCATED IN THE CENTER OF CURB RETURN.
2. THE RAMP SHALL BE GROOVED IN A TRANSVERSE PATTERN WITH 1/4" GROOVES APPROXIMATELY 1–1/2" O.C. SEE SECTION A–A.
3. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" LIP OF 45°.
4. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 12 % AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
5. CONSTRUCT PER A.D.A. STANDARDS.

WHEELCHAIR RAMP IN SIDEWALK (TYPICAL AT EACH DRIVEWAY CURB RETURN) 3C

N.T.S.



WATER LINE 42A

N.T.S.

SANITARY SEWER 42B

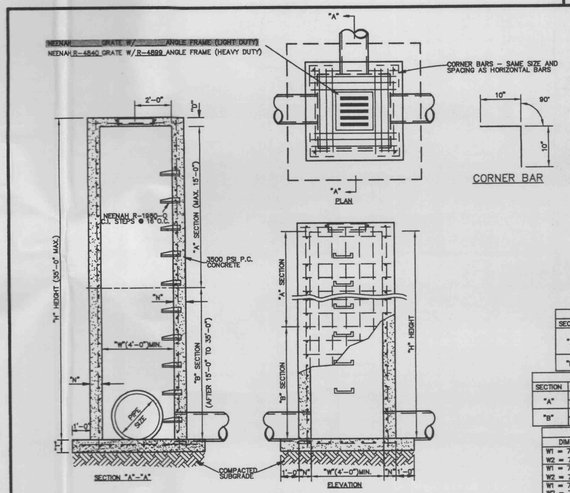
N.T.S.

GENERAL NOTES

1. BEDDING SHALL BE CLASS I–A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I–B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I–A OR CLASS I–B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I–A WORKED BY HAND, OR CLASS I–B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV–A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321–89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV–A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

SANITARY SEWER AND WATER LINE TRENCH AND BEDDING

N.T.S.



GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
2. ALL #4 & #5 REINFORCING BARS TO HAVE 1–1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
3. SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS, AND FLOW LINES.
4. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF INLET.
5. ALL REINFORCING BARS TO BE GRADE 60.

REINFORCEMENT SCHEDULE, BASE	
SECTION	
"A"	#4's @ 6" E.W.
"B"	#6's @ 6" E.W.

TABLE OF "W" DIMENSIONS			
PIPE SIZE	SKEW OF CROSS DRAIN		
SINGLE	STRAIGHT	30°	45°
24"	4'–0"	4'–0"	4'–10"
30"	4'–0"	4'–7"	5'–8"
36"	4'–0"	5'–3"	6'–5"
42"	5'–3"	5'–11"	7'–3"
48"	5'–10"	6'–7"	8'–0"
60"	7'–0"	7'–10"	9'–8"
DOUBLE	FOR "A" SECTION ONLY		
24"	7'–0"	7'–10"	9'–5"
30"	8'–2"	9'–2"	11'–0"
36"	9'–4"	10'–6"	12'–8"
42"	10'–6"	11'–10"	14'–2"
48"	11'–8"	13'–2"	15'–10"

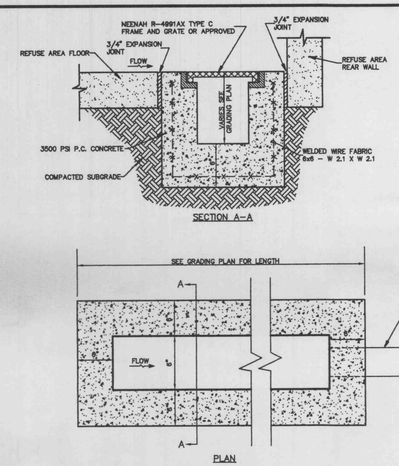
REINFORCEMENT SCHEDULE, WALLS			
SECTION	WIDTH ("W")	HOR.	VERT.
"A"	4'	#4's @ 9"	#4's @ 10"
	BETWEEN 4' & 7'	#5's @ 9"	#4's @ 10"
	GREATER THAN 7'	#5's @ 4 1/2"	#4's @ 10"
"B"	4'	#4's @ 8"	#4's @ 10"
	BETWEEN 4' & 7'	#5's @ 8"	#4's @ 10"

TABLE OF "T" & "H" DIMENSIONS				
SECTION	WIDTH ("W")	"T"	"H"	"D"
"A"	BETWEEN 4' & 7'	6" + PIPE THICKNESS	8"	6"
	GREATER THAN 7'	6" + PIPE THICKNESS	8"	8"
"B"	4'	6" + PIPE THICKNESS	8"	8"
	BETWEEN 4' & 7'	8" + PIPE THICKNESS	10"	8"

REINFORCEMENT SCHEDULE, TOP		
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 8" E.W.	DIAGONAL @ COVER

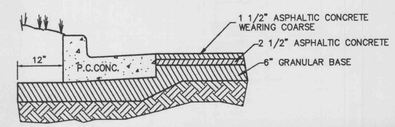
GRATE INLET 23A

N.T.S.



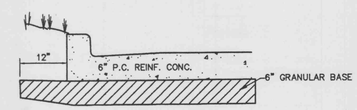
TRENCH DRAIN 27B

N.T.S.



REGULAR DUTY PAVING 8A

STANDARD PAVING

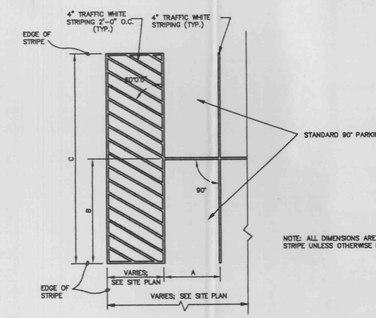


HEAVY DUTY CONCRETE PAVING 70C

RIGID PAVING

PAVING DETAILS

N.T.S.

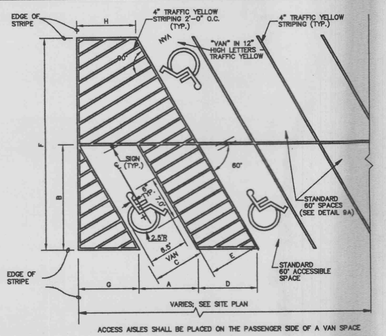


DIMENSION CHART										
A	9'	9.5'	10'	9'	9.5'	10'	9'	9.5'	10'
B	18'		18'	19'	19'	19'	20'		20'
C	36'	36'	36'	36'	38'	38'	40'	40'	40'

NOTE: SEE SITE PLAN FOR TOTAL LAYOUT

90° PARKING SPACE STRIPING 9B

N.T.S.



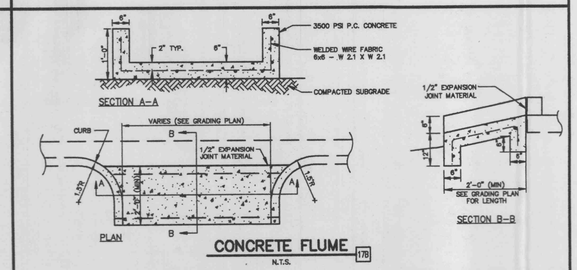
DIMENSION CHART			
A	9.24'	9.24'	9.24'
B	18'	19'	20'
C	6'	8'	8'
D	9.24'	9.24'	9.24'
E		8'	
F	36'	38'	40'
G	10.39'	10.97'	11.56'
H	8.09'	7.51'	6.94'

NOTE: SEE SITE PLAN FOR TOTAL LAYOUT

NOTE: ALL DIMENSIONS ARE TO ℄ OF STRIPE UNLESS OTHERWISE INDICATED

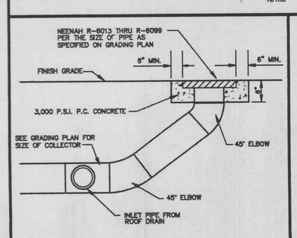
60° VAN ACCESSIBLE PARKING SPACE STRIPING 9J

N.T.S.



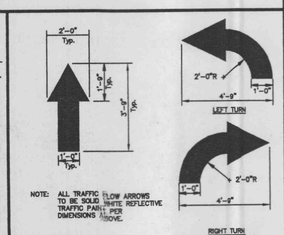
CONCRETE FLUME 17B

N.T.S.



STORM DRAIN CLEAN–OUT 27E

N.T.S.



TRAFFIC FLOW ARROW 9A

N.T.S.

1-5-97

INITIAL DESIGN	11–14–96	JDG	BLM	JAC	JAC
	DATE	PRN	PM	DES	DRW

STEAK 'N SHAKE RESTAURANT

CEI ENGINEERING ASSOCIATES, INC

ENGINEERS • PLANNERS • SURVEYORS

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Bentonville, AR 72712

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DWG NAME: 2424DETL

DETAIL SHEET
MISSOURI HIGHWAYS 'N' & 'K'
O'FALLON, MISSOURI

DATE 02–05–97 2:38 PM R3

SHEET NO. 8 OF 9

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