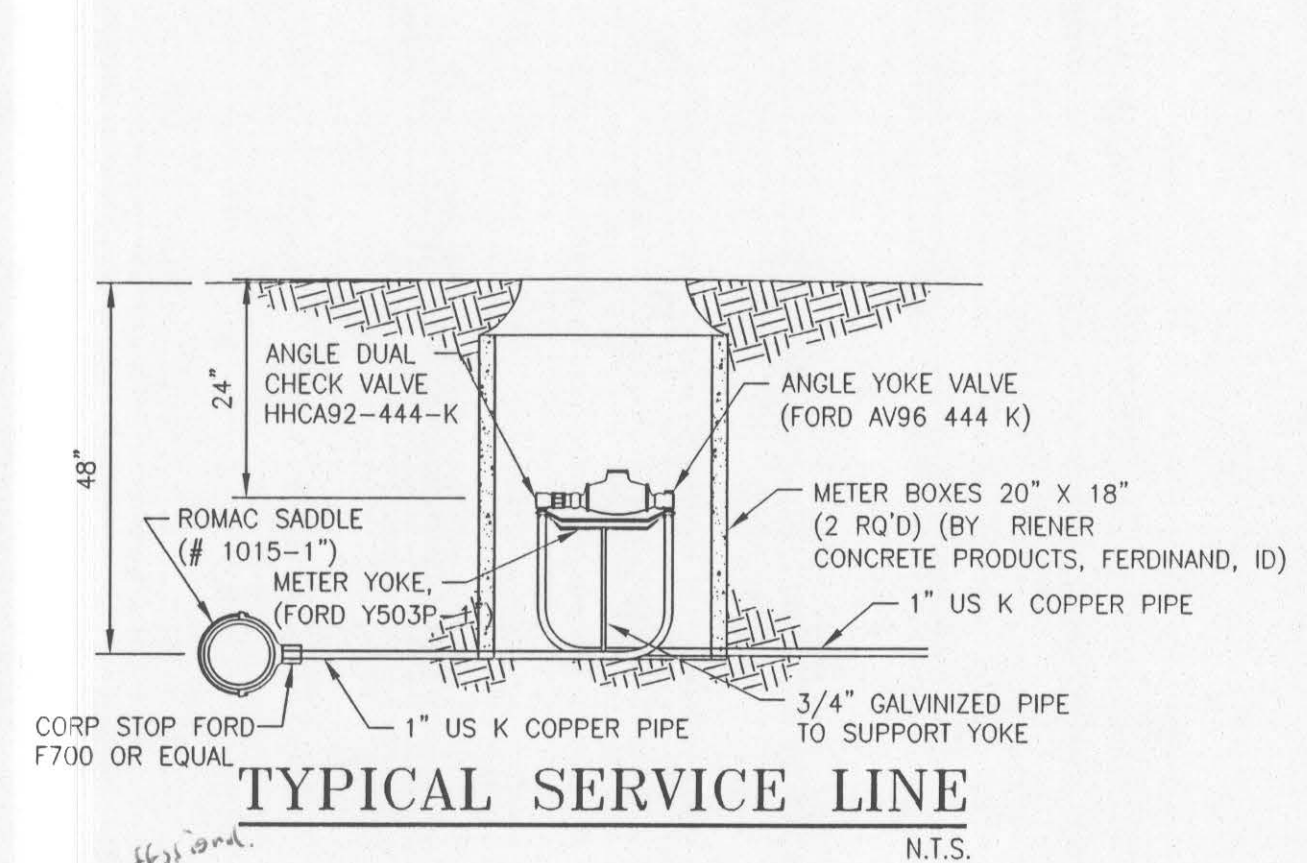
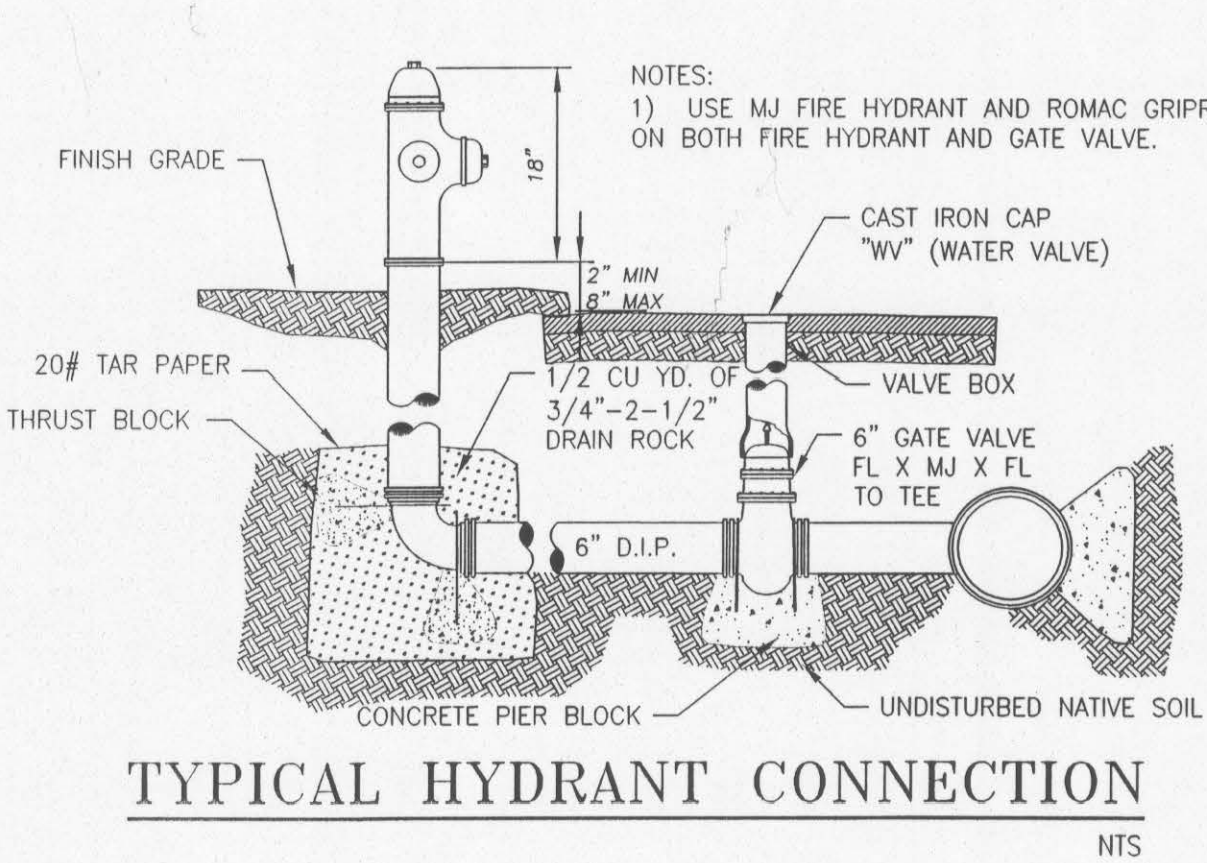
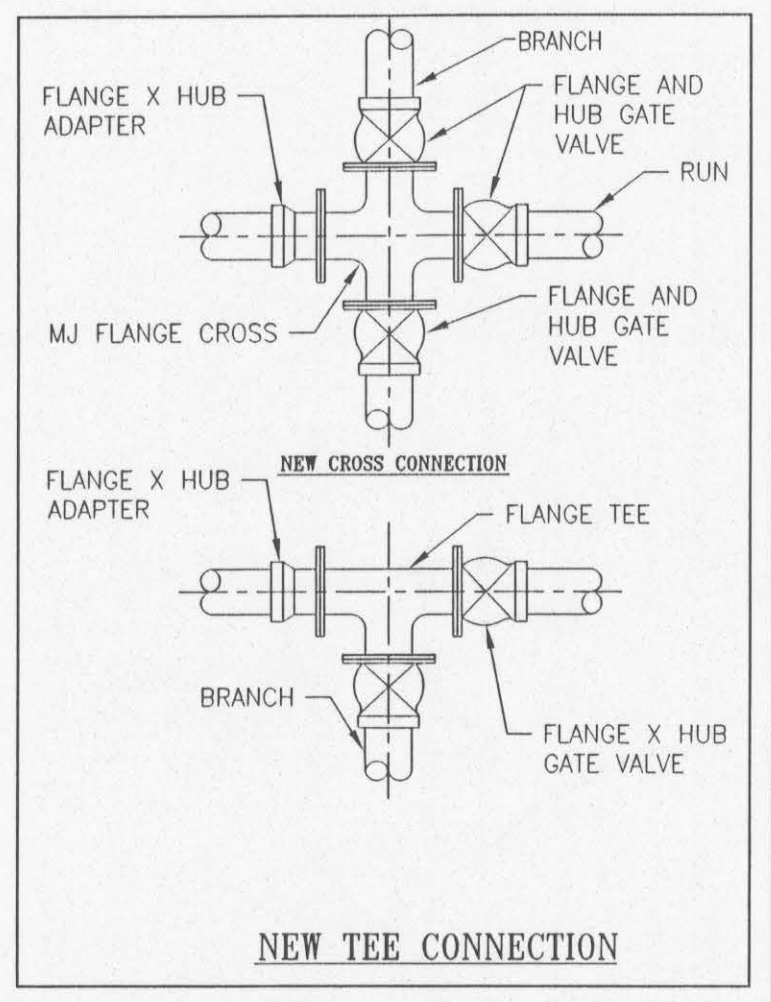
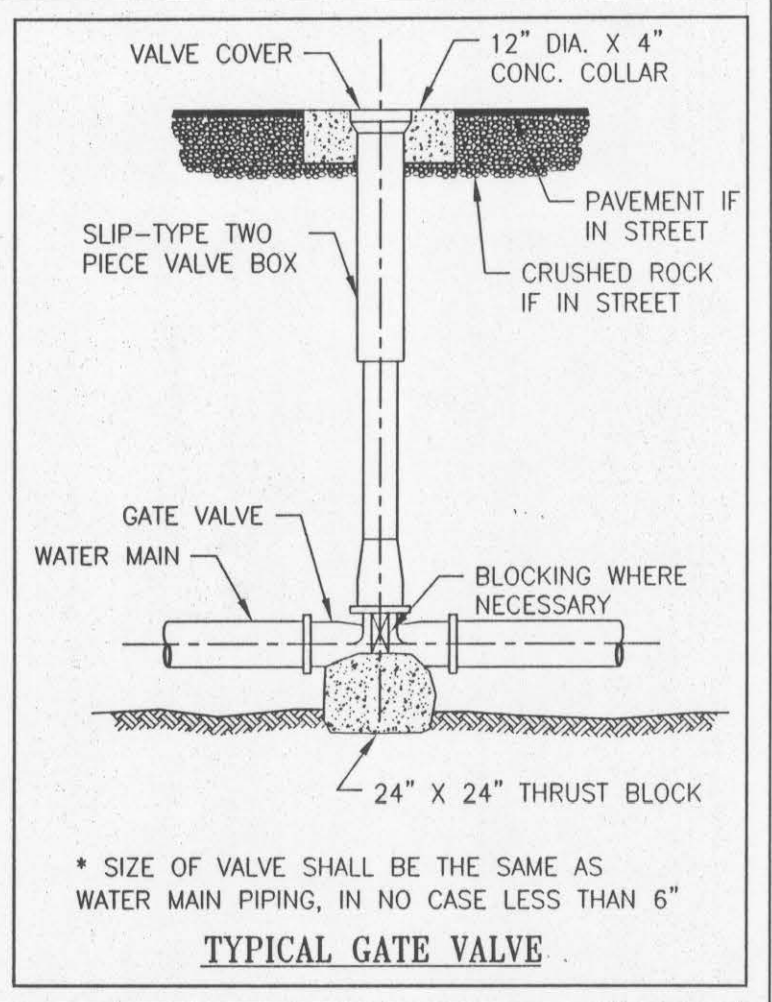
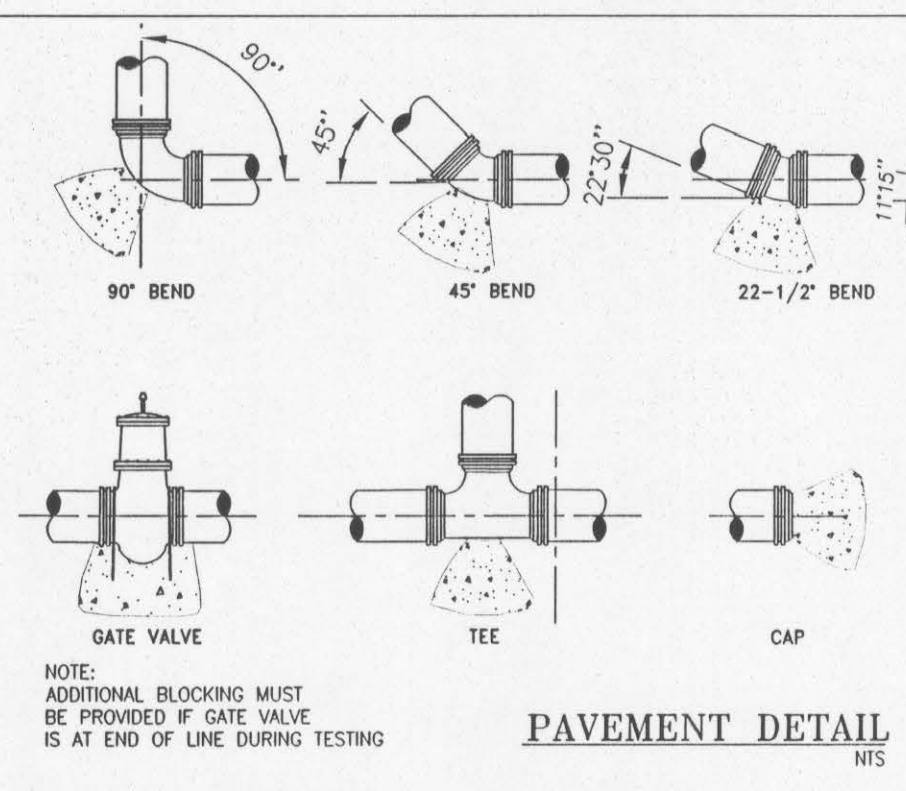
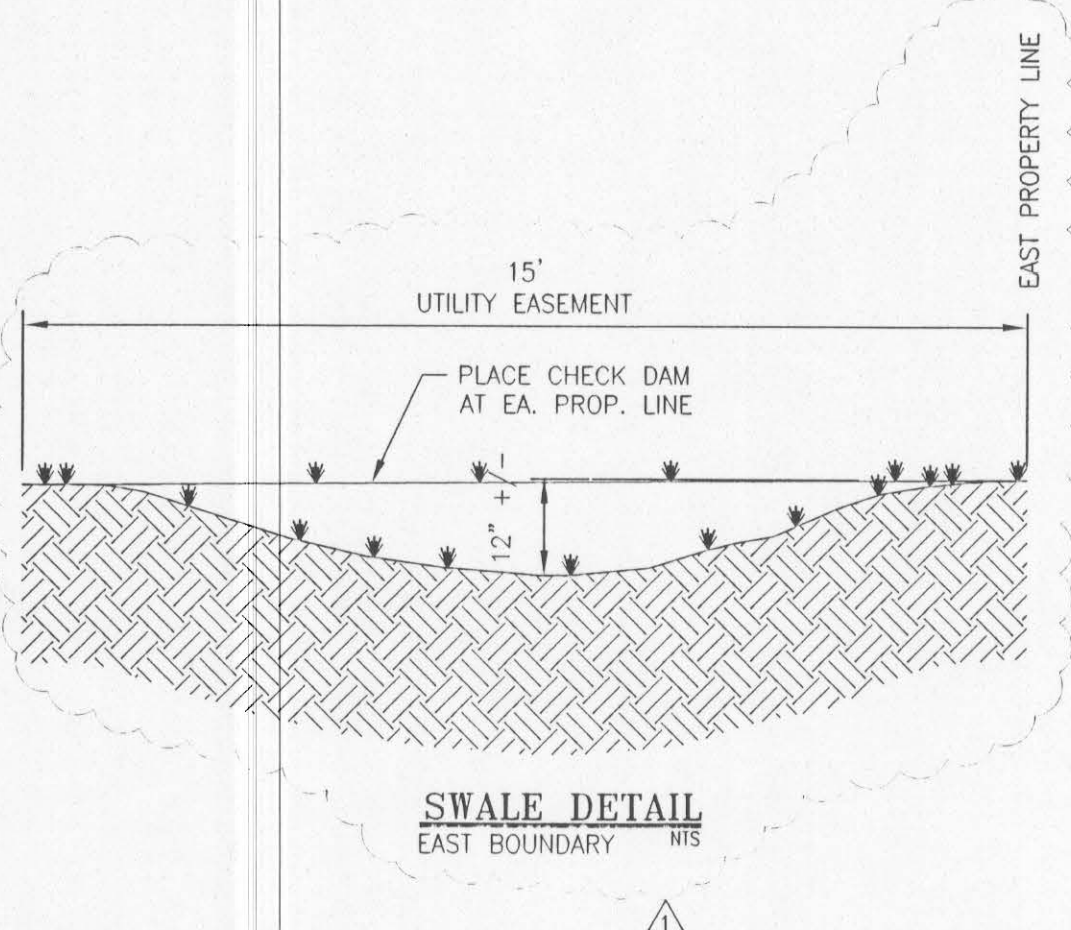
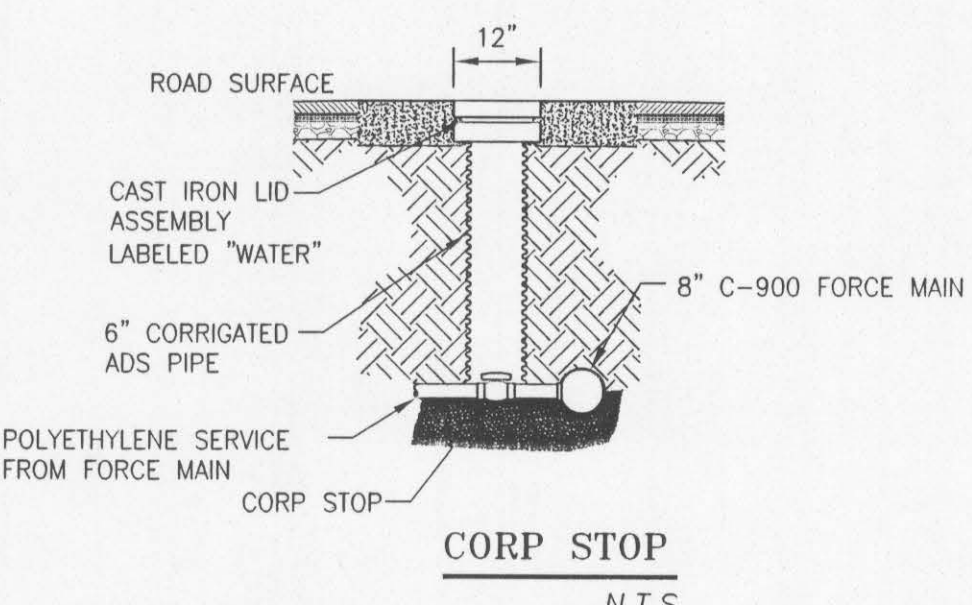
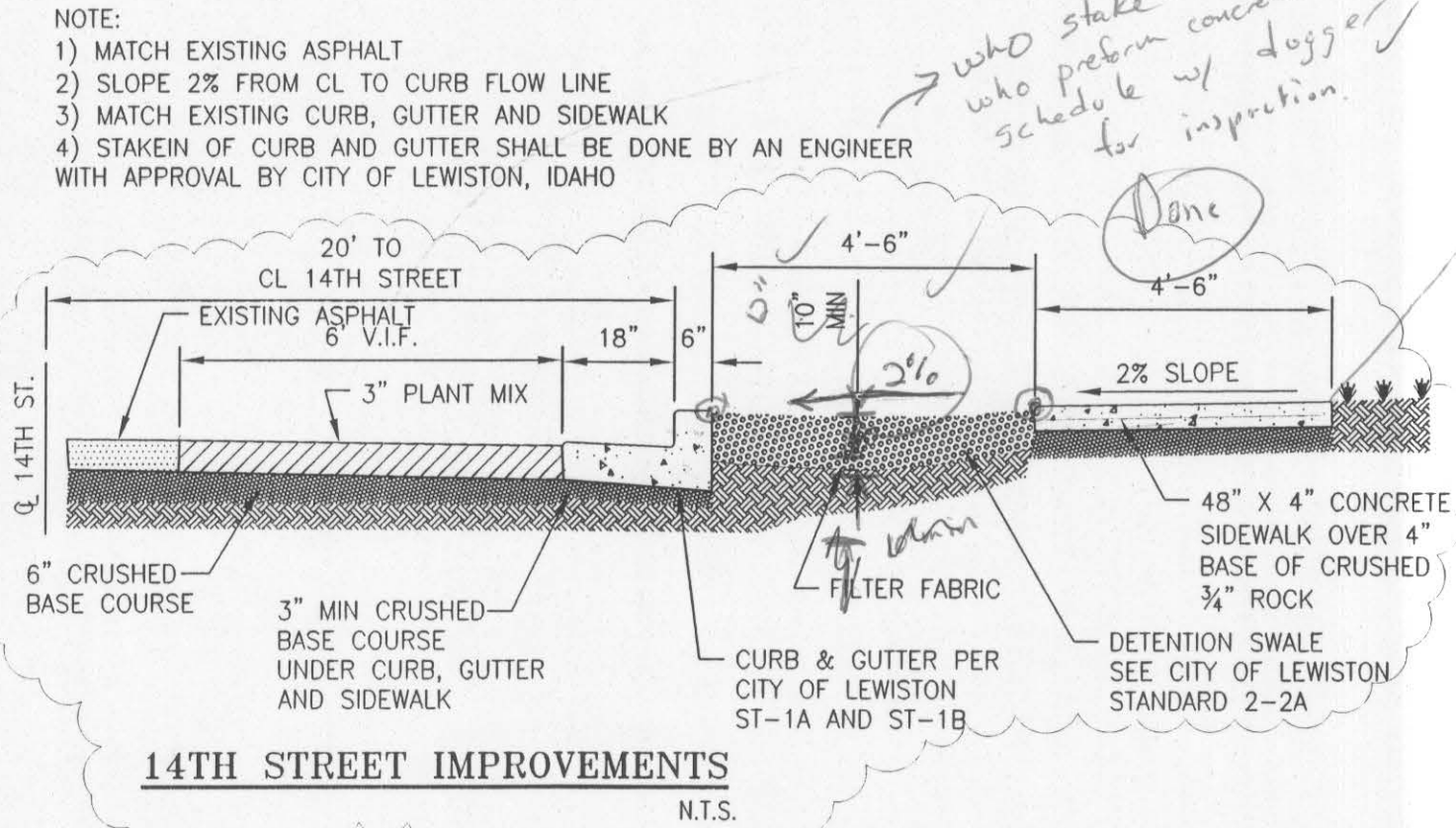




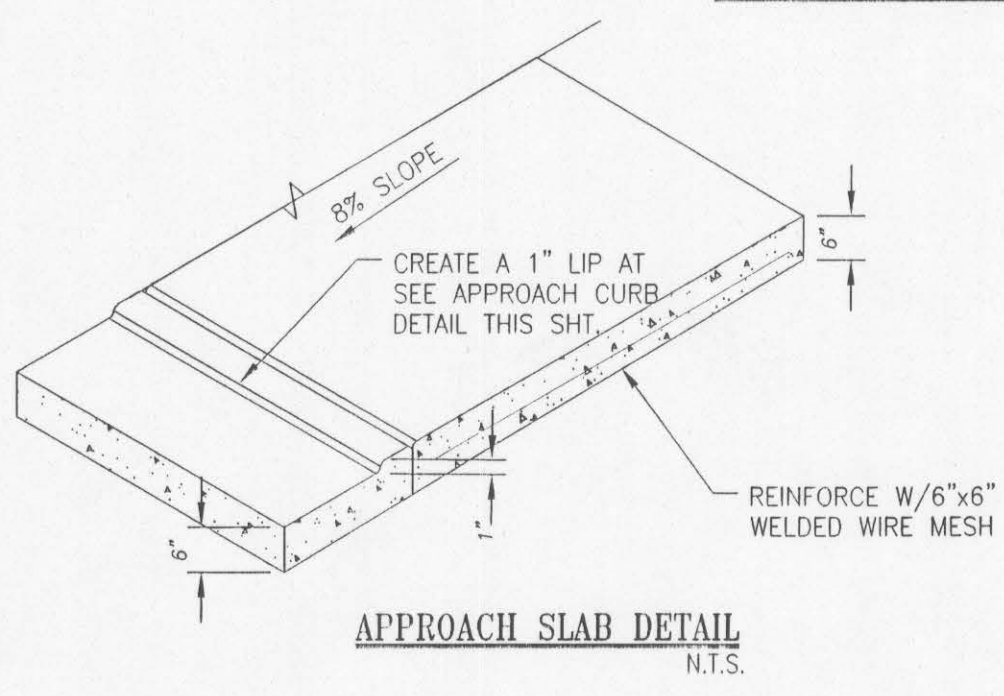
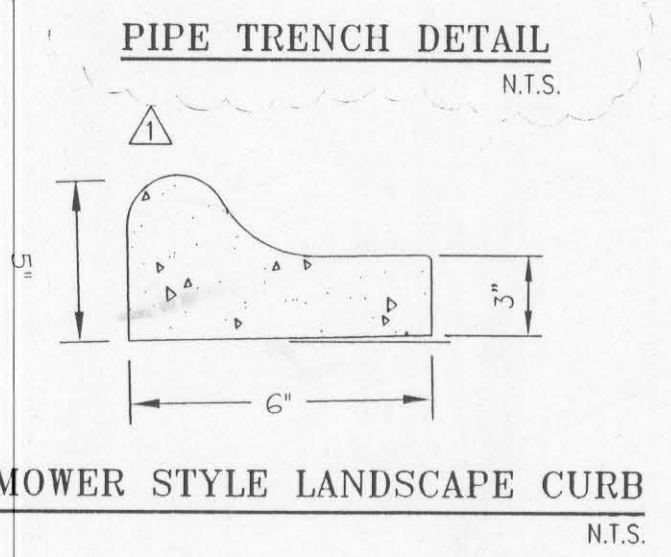
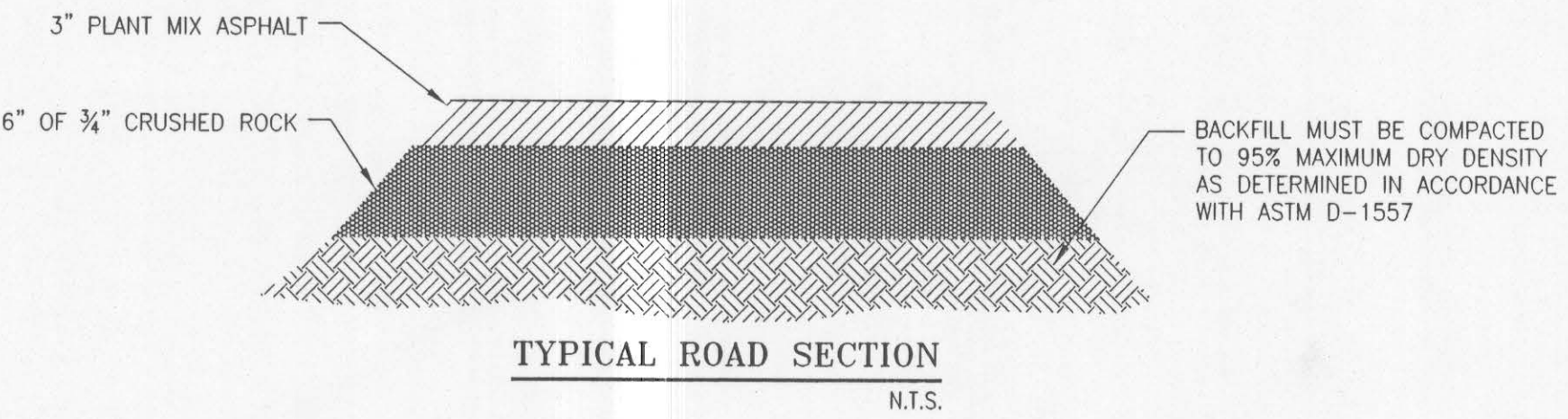
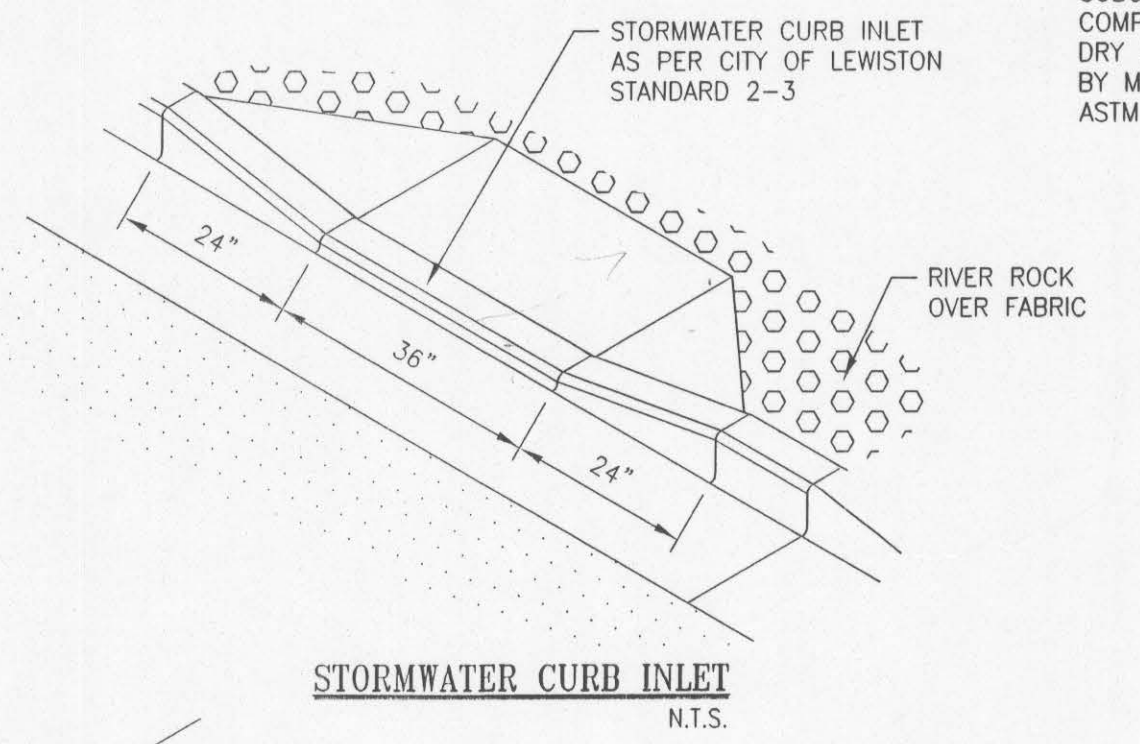
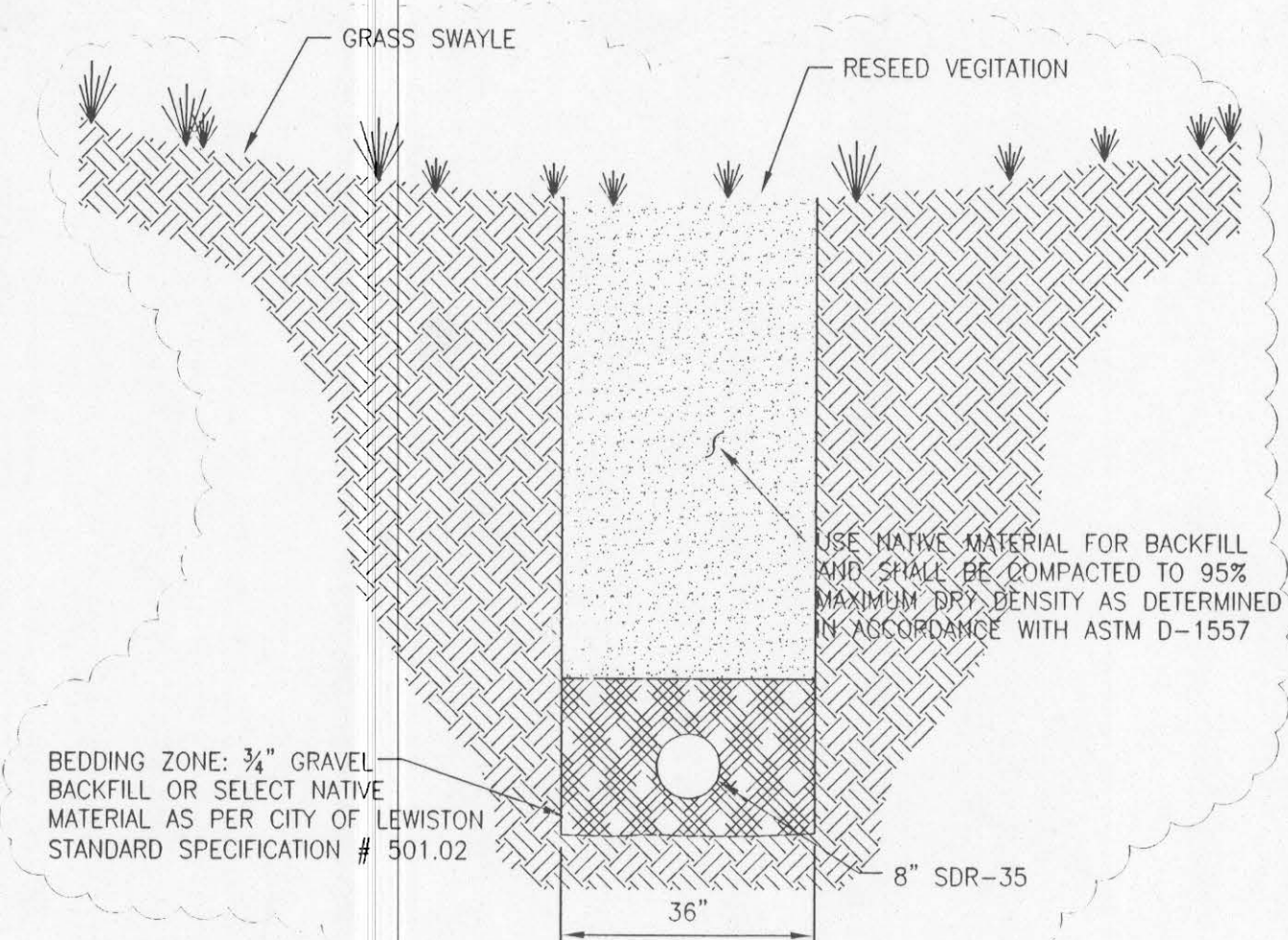
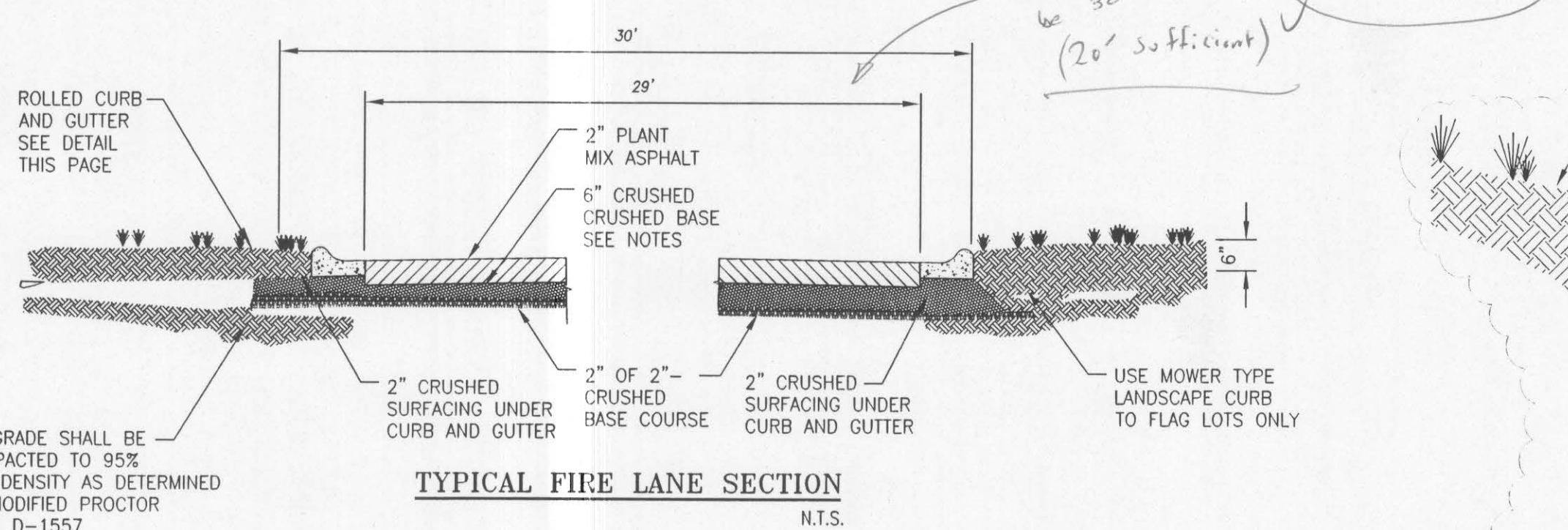
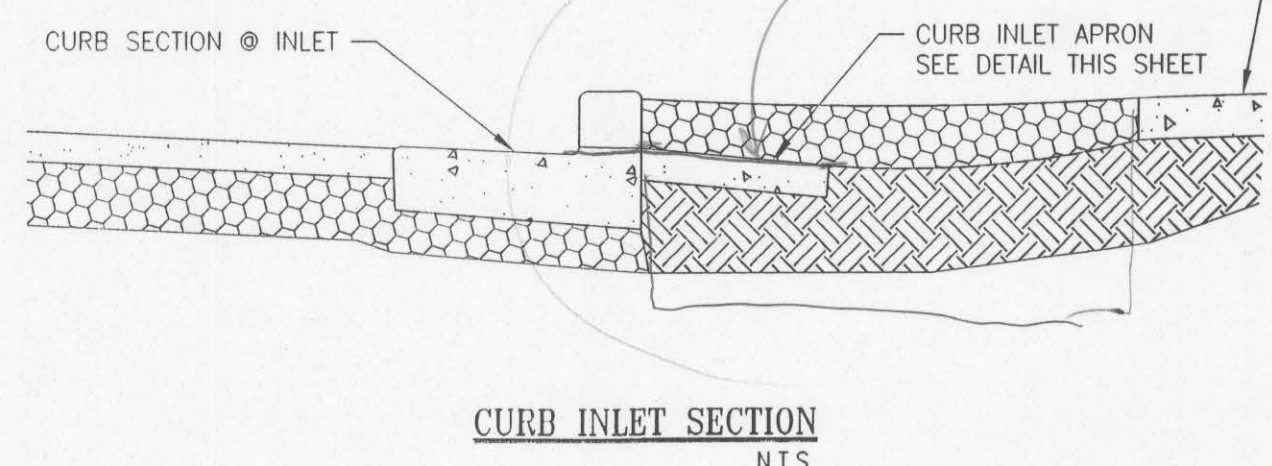
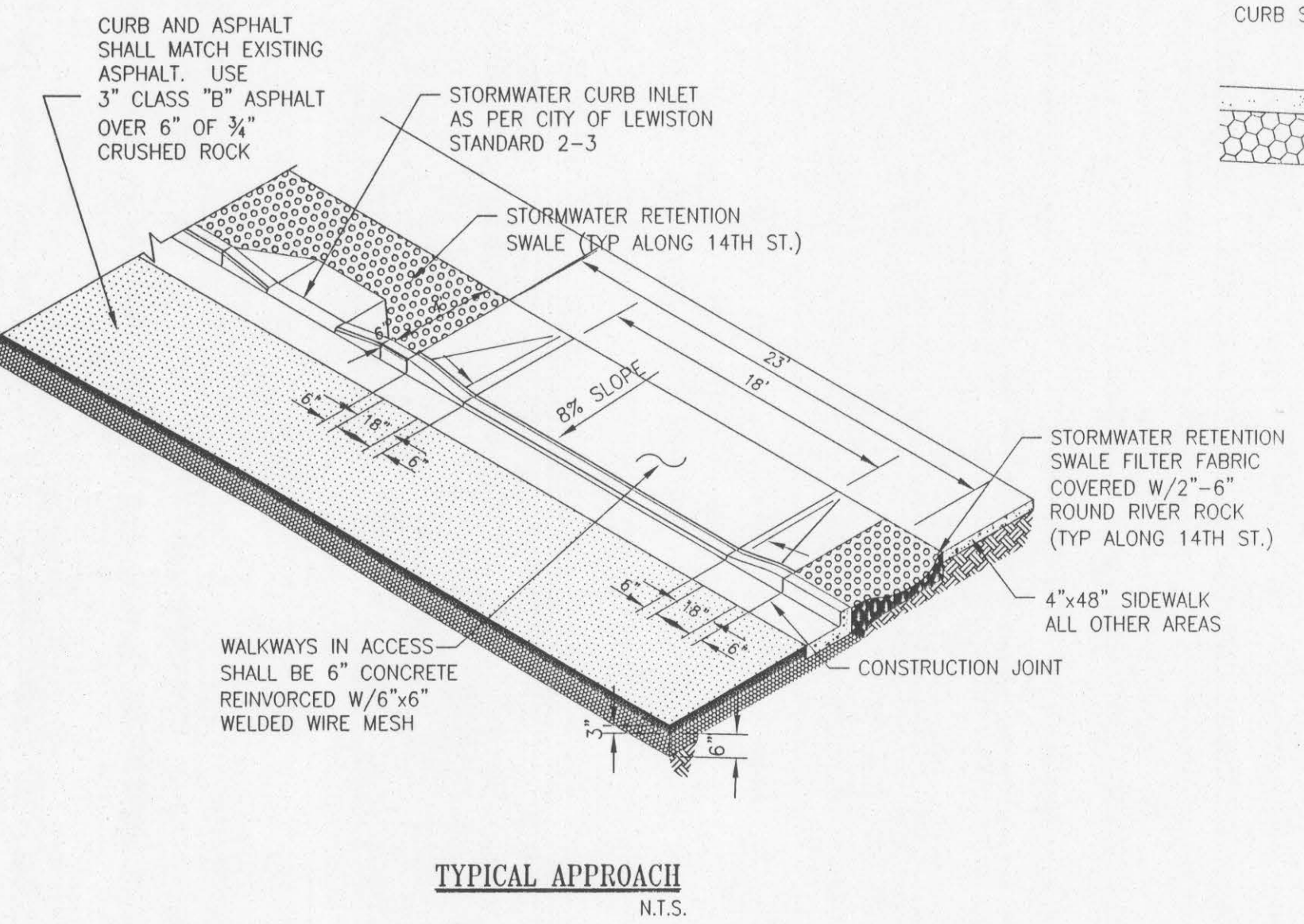
1. THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SERVICE LINE. DISCREPANCIES SHALL BE DISCUSSED WITH THE ENGINEER BEFORE CHANGES ARE MADE.
2. HIGH BACK CURBS, WHICH ARE USED ON 14TH STREET AND BRYDEN AVE. ARE TO COMPLY WITH CITY OF LEWISTON CURB& GUTTER STANDARD ST1-A & ST1-B.
3. PLANT MIX PAVING SHALL MATCH EXISTING PAVEMENT ON 14TH STREET AND MUST MAINTAIN A 2% SLOPE TO THE FLOW LINE OF THE CURB.
4. PLANT MIX SHALL BE CLASS III PER IDAHO DOT SPECIFICATIONS.
5. ALL FILL AND SUB GRADING MUST BE COMPACTED TO 95% MIN. DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D-1557
6. ALL BASE COURSE MATERIAL SHALL BE 3/4" CRUSHED ROCK COMPACTED TO 95% DRY DENSITY PER MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D-1557
7. ALL CURB AND GUTTER WILL BE PROVIDED BY DEVELOPER. SIDEWALKS SHALL BE INSTALLED BY PROPERTY OWNERS WITH PURCHASE OF ANY LOTS BORDERING 14TH STREET.
8. CURB ACCESS CUTS SHALL BE INSTALLED TOWARDS THE NORTH END OF EACH LOT BORDERING 14TH STREET AS INDICATED ON THE PLAN SHEET 1 OF 1.



THRUST BLOCK - TABLE									
MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL PER SQ. FT									
pipe size	pressure psi	A	B	C	D	E	X	100psi	
4"	200	2/(1)	1/NONE	1/NONE	NONE	NONE	NONE	NONE	
	300	3/(2)	2/(1)	2/(1)	1/(1)	NONE	NONE	NONE	
6"	200	4/(30)	3/(2)	3/(1)	1/(1)	1/(NONE)	NONE	NONE	
	300	6/(4)	4/(3)	3/(2)	2/(1)	1/(NONE)	NONE	NONE	
8"	200	7/(3)	5/(3)	4/(3)	2/(2)	1/(1)			
	300	11/(5)	8/(5)	6/(4)	3/(2)	2/(1)			
10"	200	11/(8)	8/(6)	6/(4)	3/(2)	2/(1)			
	275	16/(11)	11/(7)	9/(6)	5/(3)	3/(2)			
12"	200	16/(11)	11/(8)	9/(6)	5/(3)	3/(2)			
	250	24/(16)	17/(11)	13/(9)	7/(5)	4/(3)			
14"	200	22/(13)	16/(11)	12/(8)	6/(4)	3/(2)			
	250	33/(22)	23/(16)	17/(12)	9/(6)	5/(3)			
16"	200	23/(16)	21/(14)	16/(11)	8/(6)	5/(3)			
	225	29/(19)	23/(16)	17/(12)	9/(6)	5/(3)			
18"	200	36/(24)	26/(17)	20/(13)	10/(7)	5/(4)			
20"	200	45/(29)	36/(23)	35/(23)	18/(12)	9/(6)			



PIPE CONNECTION DETAILS



CONCRETE DETAILS

DETAILS

REVISIONS	
NO.	DATE



CIVIL ENGINEERING
• PLANNING
• DESIGN
• RESIDENTIAL & COMMERCIAL DEV
• WATER & SEWER SYSTEM DESIGN
• ROAD DESIGN
• ENVIRONMENTAL SERVICES
WARREN WATTS ENGINEERING
PHONE (509) 780 9725

HILLVIEW ADDITION #2
TOM HILL
3525 6TH STREET
LEWISTON, ID 83501
DETAILS

DRAWN BY: WRW	CHECKED BY: WSW
DESIGNED BY: WSW	
DATE: 10/20/08	
LAST REV: 10/30/08	
PROJECT NO: 08-032	
SHEET 5	OF 6