

SOUTHGATE PLAZA - 7TH STREET APARTMENTS PARKING LOT & FRONTAGE IMPROVEMENTS

CIVIL CONSTRUCTION PLANS



CONTACTS

OWNER

ALEXANDER INVESTORS
PO BOX 448
MONTVILLE, NJ 07045
745-216-8982

ARCHITECT

MY ARCHITECT
504 MAIN ST. SUITE 480
LEWISTON, ID 83501
208-743-5902

GEOTECHNICAL SERVICES

ALLWEST TESTING & ENGINEERING, LLC
2705 E. MAIN STREET
LEWISTON, IDAHO

UTILITY PROVIDERS

SANITARY SEWER	LOSD (Urban Wessels)	208-791-9346
WATER	L.O.I.D. (Barney Metz)	208-746-8235
POWER	AVISTA (Colby Witters)	509-780-1475
TELECOM.	CENTURY LINK (Julio Mendez)	208-798-8380
CABLE T.V.	CABLEONE (Tom Donahue)	208-791-5032

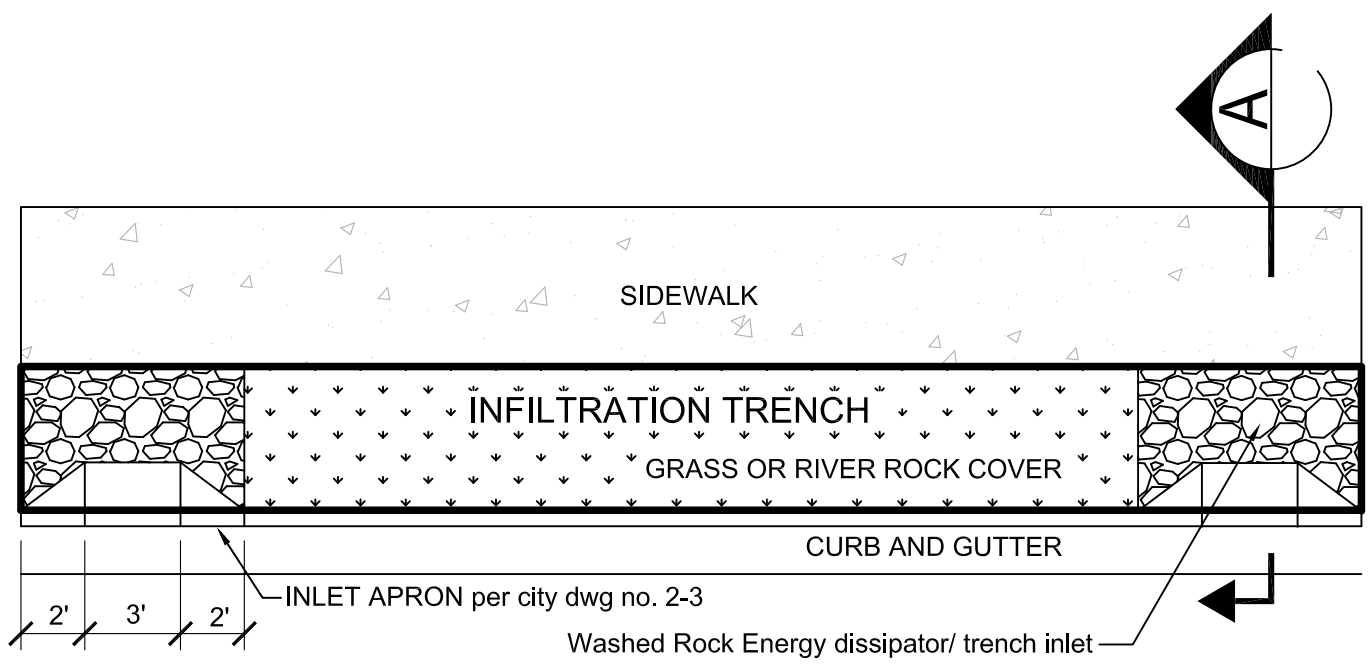


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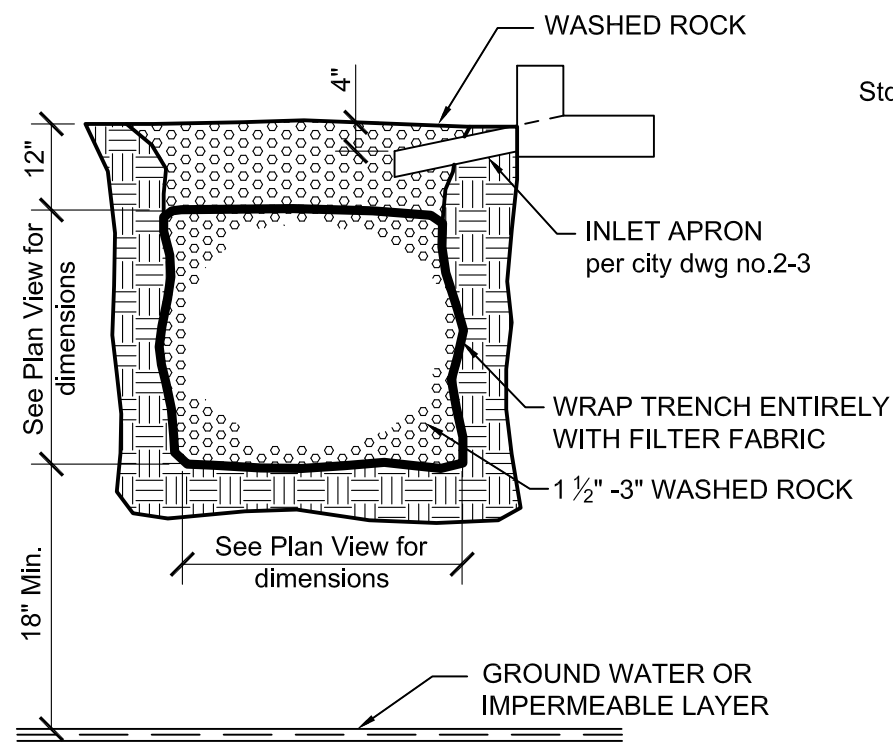
	PROPOSED SAN. SEWER		EXISTING SAN. SEWER
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED WATER LINE		EXISTING WATER LINE
	PROPOSED FIRE PROTECTION		EXISTING FIRE PROTECTION
	PROPOSED FENCE LINE		EXISTING OVERHEAD ELECTRICAL LINE
	PROPOSED CATCH BASIN		EXISTING UNDERGROUND ELECTRICAL LINE
	PROPOSED MANHOLE		EXISTING FENCE LINE
	PROPOSED GATE VALVE		EXISTING CATCH BASIN
	PROPOSED FIRE HYDRANT		EXISTING MANHOLE
	PROPOSED THRUST BLOCK		EXISTING GATE VALVE
	PROPOSED CONTOUR LINE		EXISTING FIRE HYDRANT
	PROPOSED SPOT ELEVATION		EXISTING THRUST BLOCK
	PROPOSED CENTERLINE MONUMENT		EXISTING WATER METER
	PROPOSED CENTERLINE		EXISTING POWER POLE
	PROPOSED EASEMENT LINE		EXISTING CONTOUR LINE
	PROPERTY LINE		EXISTING SPOT ELEVATION
	PROJECT BOUNDARY		EXISTING UTILITY
	SILT FENCE		EXISTING PROPERTY LINE
			EXISTING CENTERLINE MONUMENT

CITY INSPECTION CHECKLIST

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CC	DATE	INITIAL
1. ALL UTILITY TRENCHES & STRUCTURES							
TRENCH SUBGRADE	Native (6" to 8" Lbl. Max.)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift. (whichever test frequency is more restrictive). Test depth 6" of 12" cover	Allwest		
PIPE BEDDING	3/4" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current ITD Spec 708.64) OR 5/8" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current WDOT/M&T-10 Spec 9-33.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift. (whichever test frequency is more restrictive). Test depth 6" of 12" cover	Allwest		
1/4 FOOT [12"] OF FILL OVER PIPE	3/4" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current ITD Spec 708.64) OR 5/8" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current WDOT/M&T-10 Spec 9-33.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift. (whichever test frequency is more restrictive). Test depth 6" of 12" cover	Allwest		
TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK	3/4" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current ITD Spec 708.64) OR 5/8" minus Crushed Aggregate (5" to 8" Max. Lbl.) (Current WDOT/M&T-10 Spec 9-33.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift. (whichever test frequency is more restrictive). Test depth 6" of 12" cover	Allwest		
STRUCTURAL PILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
2. STORM DRAIN MAINS							
10" DIA. 10' Storm Sewer Pipe	Polyethylene, AAS 12 or Equal	Per Manufacturer's Instructions	Certified & Visual by City	Per Plan	Certified & Visual by City		
ALIGNMENT AND GRADE	NA	Per Manufacturer's Instructions	Per Plan	Per Plan			
JOINTS (Continuous/Proprietary Pipe Embedment)	NA	Per Manufacturer's Instructions	Per Plan	Per Plan			
PRESTRESS TEST	NA	4 PSI for 16 minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes			
MANHOLES	Concrete	4 PSI for 16 minutes, 1/2 PSI Drop	Public Works Policy No. 2013-2	NA	Certified & Visual by City		
VIDEO INSPECTION	NA	NA	Public Works Policy No. 2013-2	Between Access Holes			
3. WATER MAINS							
10" DIA. 10' PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class A or B)	AWWA C-600, AWWA C-605	Certified & Visual by City	Per Pipe	Certified & Visual by C.O.I.D.		
ALIGNMENT AND GRADE	NA	AWWA C-600, AWWA C-605	Per Pipe	Per Pipe			
JOINTS (Continuous/Proprietary Pipe Embedment)	NA	AWWA C-600, AWWA C-605	Per Pipe	Per Pipe			
PRESTRESS TEST	Concrete	4 PSI for 16 minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes			
MANHOLES	Concrete	4 PSI for 16 minutes, 1/2 PSI Drop	Public Works Policy No. 2013-2	NA	Certified & Visual by City		
VIDEO INSPECTION	NA	NA	Public Works Policy No. 2013-2	Between Access Holes			
4. WASTEWATER MAINS							
10" DIA. 10' PVC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034	NA	NA			
ALIGNMENT AND GRADE	NA	Per Manufacturer's Instructions	Per Pipe	Per Pipe			
JOINTS (Continuous/Proprietary Pipe Embedment)	NA	Per Manufacturer's Instructions	Per Pipe	Per Pipe			
PRESTRESS TEST	Concrete	4 PSI for 16 minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes			
MANHOLES	Concrete	4 PSI for 16 minutes, 1/2 PSI Drop	Public Works Policy No. 2013-2	NA	Certified & Visual by City		
VIDEO INSPECTION	NA	NA	Public Works Policy No. 2013-2	Between Access Holes			
5. CONCRETE CURB, GUTTER & SIDEWALK							
CONCRETE	CLASS 3034 - Approved Mix Design Required with Min. Cement Content of 350 (ASTM C-151, AASHTO M-12 or Equal)	AASHTO T-22 Compressive Strength of Concrete AASHTO T-22 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-155 Air Content of Freshly Mixed Concrete AASHTO T-230 Temperature of Freshly Mixed Concrete WAGTC T-2 Sampling Freshly Mixed Concrete	Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.50 or less; Max. Slump = 9 inches; Air Content = 6.5% ± 1.5; Temperature = 50°F ± 5°F	1 Tests Per 500 LF; Min. 2 Tests	Allwest		
CRUSHED AGGREGATE BASE COURSE	3/4" minus Crushed Aggregate (4" Max. Lbl.) (Current ITD Spec 708.64) OR 5/8" minus Crushed Aggregate (4" Max. Lbl.) (Current WDOT/M&T-10 Spec 9-33.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	1 Tests Per 500 LF; Min. 2 Tests	Allwest		
ALIGNMENT AND GRADE	NA	Visual	4" to 10" from Design Grade/Alignment	Per 10' Section	City Approval		
FINISH	NA	Visual	4" to 10" from Design Grade/Alignment	Per 10' Section	City Approval		
6. ASPHALTIC CONCRETE PAVING							
SUPERPAVE HOT MIX ASPHALT	ITD 406 Superpave Class SP2, SP3 and SP4 (2012 ITD Spec 406 and 703.90)	Class SP2: AASHTO T-220, Asphalt Content AASHTO T-227 & T-111, Sieve Analysis WAGTC T-245 In-Place Density of Bituminous Mixes AASHTO T-209 Theoretical Maximum Density (TMC) Class SP3 and SP4: AASHTO T-220, Asphalt Content AASHTO T-227 & T-111, Sieve Analysis AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA) WAGTC T-245 In-Place Density of Bituminous Mixes AASHTO T-209 Theoretical Maximum Density (TMC)	ITD Section 406.03 Asphalt Content = C-AMP Value +/- 0.3% Sieve Analysis - Table 406.03-5 Air Voids = 4.0 +/- 1.0% Voids in Mineral Aggregates, at 1" depth Voids Filled with Asphalt - Table 703.95-1 In-Place Density - 90-95% of Maximum Theoretical	1 Test per 750 Tons; Minimum of 1 Test per Project. Random Sample Locations Determined by City Engineer	Allwest		
CRUSHED AGGREGATE BASE COURSE*	Same test requirement as under 5. Concrete Curb, Gutter & Sidewalk						
7. EROSION & SEDIMENT CONTROLS							
Per Approved Plans	Per Approved Plans	Per Plan and Manufacturer's Instructions	1 Week or After Every Rainfall		Contractor		
8. TRAFFIC CONTROL							
Per Approved Plans	Per Approved Plans	Current Adopted MUTCD/TSPAS	Continuous		Contractor		
9. PRIVATE STORMWATER SYSTEM							
Per Approved Plans	Per Approved Plans	City Resolution #69, 109	Certified & Visual by City	Before Public Improvements Accepted	HEDCO, Inc.		
10. RECORD DRAWINGS							
11. ENGINEER'S CERTIFICATION							
AutoCAD, Blue-Print File, Bore Stamp, 22" x 34" Min. Size	City Checklist		Certified & Visual by City	Before Public Improvements Accepted			
Date Last Revised: September 2015							
include A							

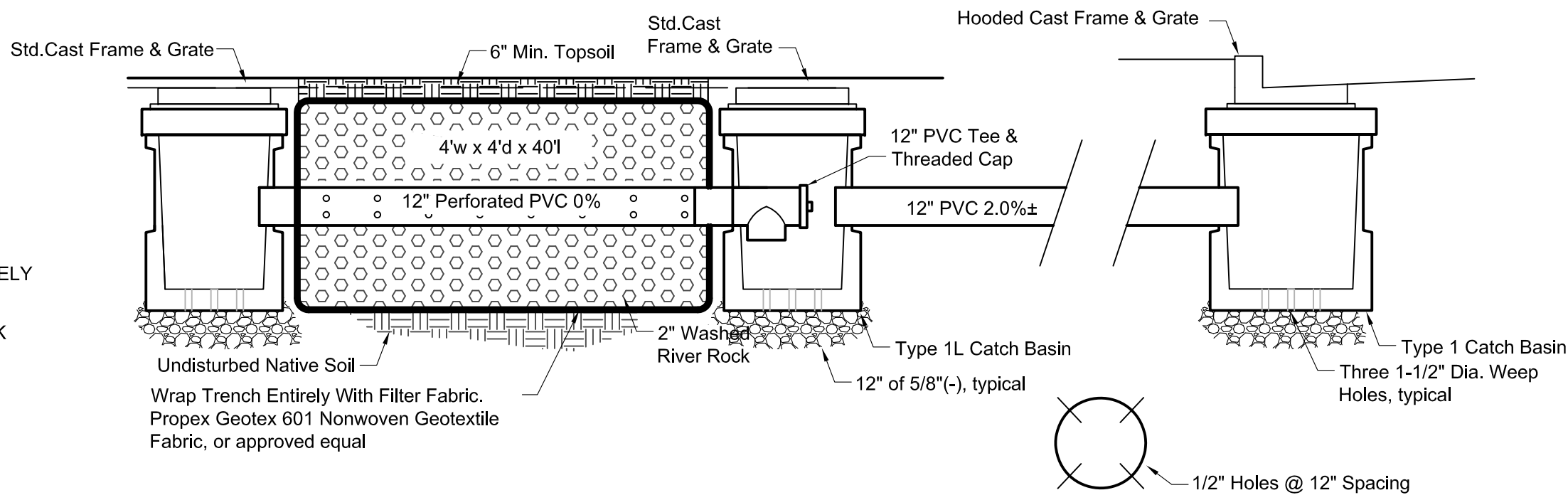


* If caliche or impermeable layer of soil is found under proposed infiltrators, penetration point shall be created and locations to be approved & inspected by City Engineer.



TYPICAL INFILTRATION TRENCH DETAIL

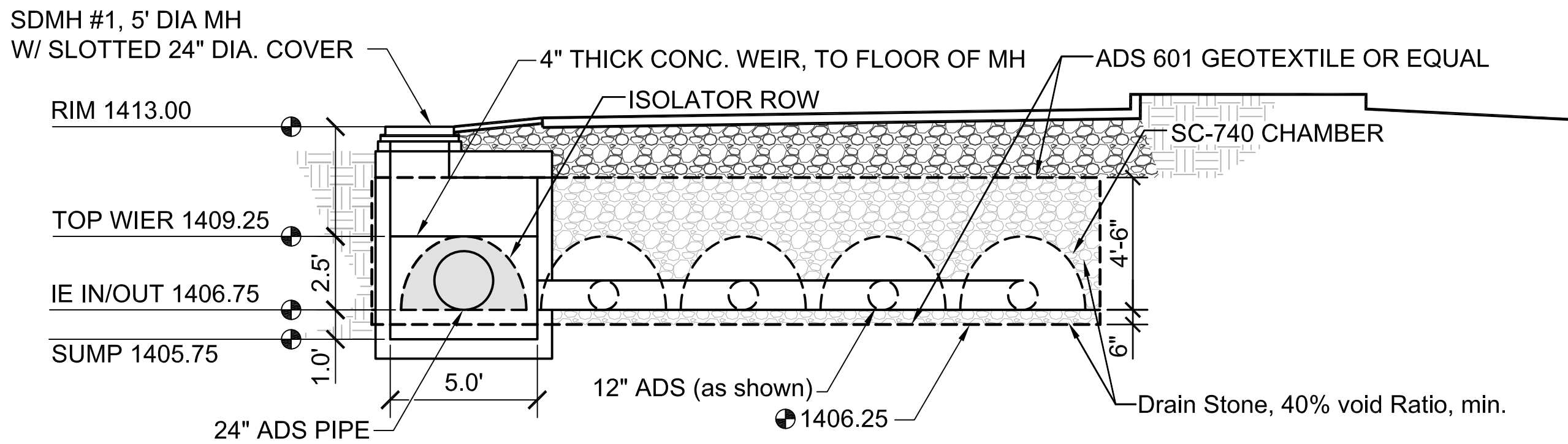
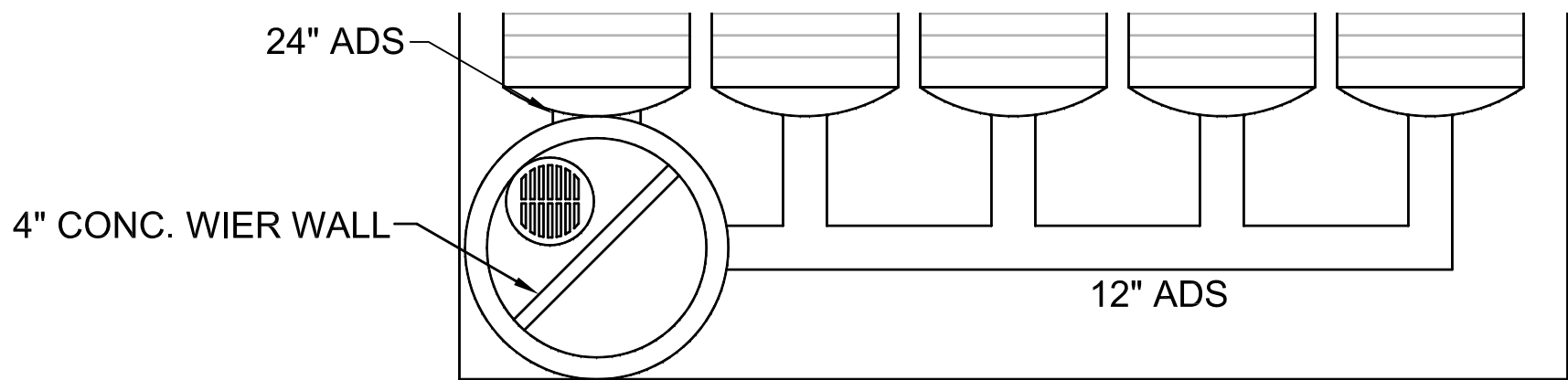
SECTION A
NTS 1636-C8



* If caliche or impermeable layer of soil is found under proposed infiltrators, penetration point shall be created and locations to be approved & inspected by City Engineer.

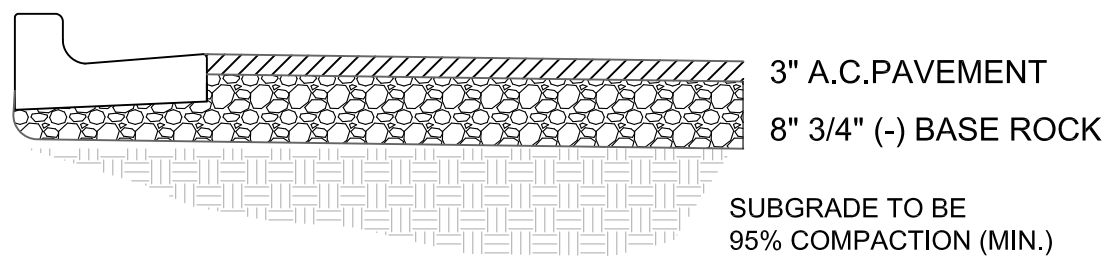
INFILTRATION TRENCH SYSTEM

SECTION B
NTS 1636-C9

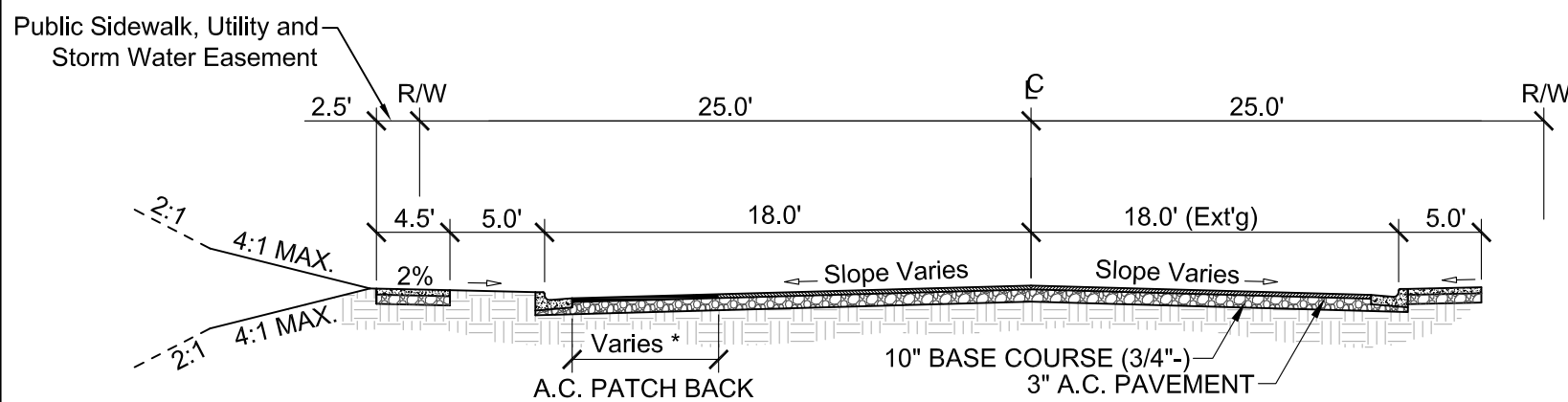


STORMTECH SC740 STORMWATER SYSTEM

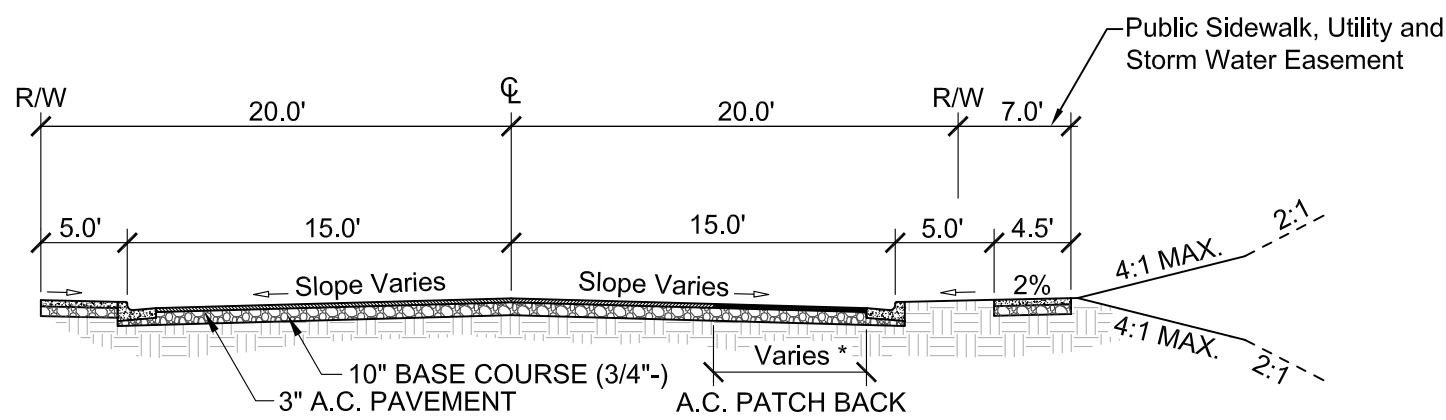
SECTION C
NTS 1636-C4



PARKING LOT SECTION

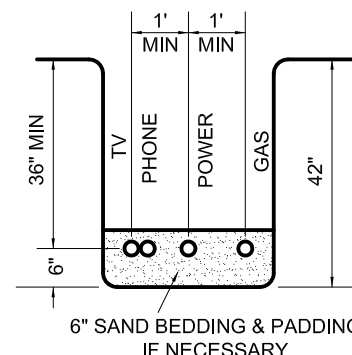


LOCAL RESIDENTIAL STREET
**MODIFIED STD. DWG. NO. 3-9
(7TH STREET)

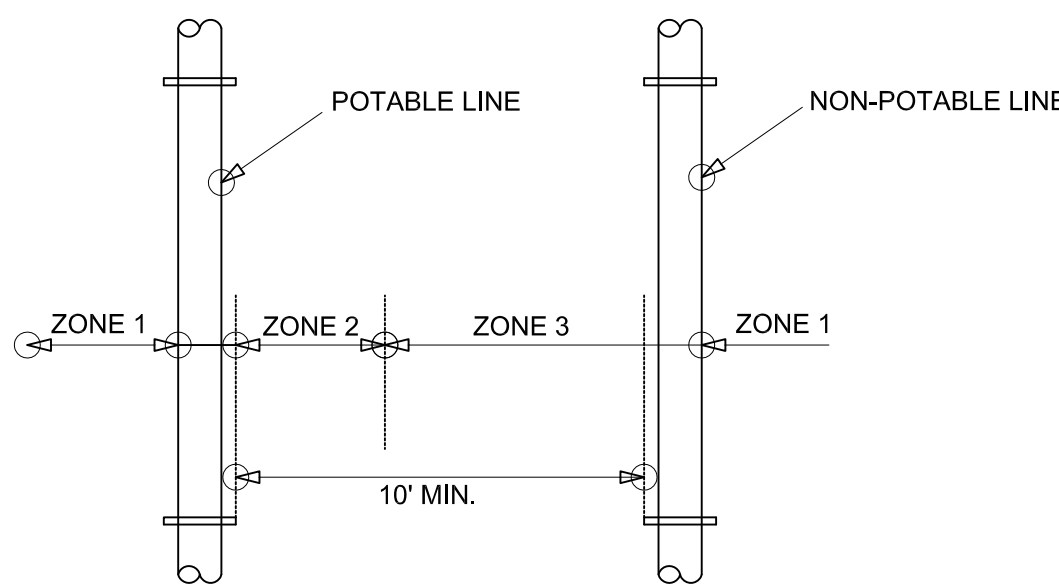


LOCAL RESIDENTIAL STREET
**MODIFIED STD. DWG. NO. 3-4
(LINDEN AVENUE)

FRANCHISE UTILITIES
TRENCH DETAIL



LINE SEPARATIONS



ZONE 1: (MORE THAN 10 FEET APART)

ZONE 2: (FROM 6 TO 10 FEET APART)

- * Potable and Non-Potable mains separated by at least 6 feet at outside walls and
- * Potable main higher in elevation than Non-Potable mains and
- * Non-Potable mains constructed to with Potable water class pipe and pressure tested for water-tightness.

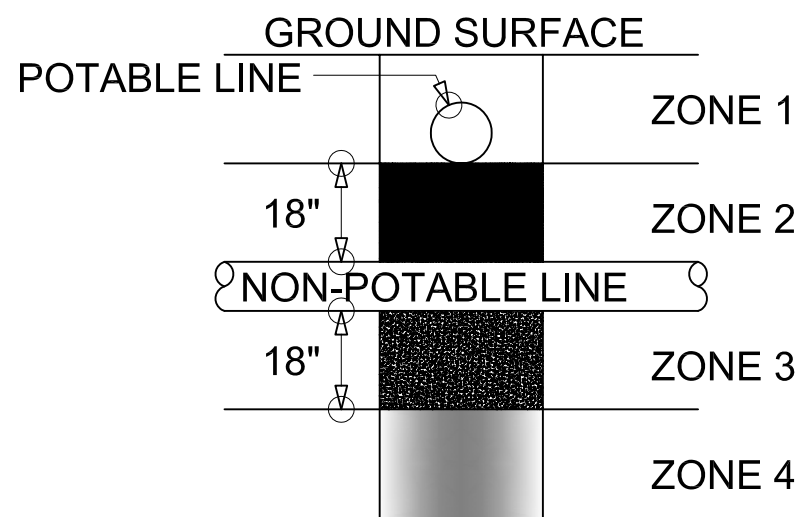
Zone 3: (CLOSER THAN 6 FEET APART)

- * For Mains and Services, Design Engineer to submit data to Department for review and approval that this intalluation will protect public health and environment and non-potable line constructed with potable water class pipe.

NOTES:

- ALL EARTHWORK SHALL BE COMPACTED TO 95% OF AASHTO T-99 PROCTOR VALUE.
- ALL POTABLE WATER LINES RUNNING FROM MAIN TO METERS WILL BE 2" AND METERS WILL BE 1" TYP.
- SANITARY SEWERS SHALL HAVE 3.0' MIN. COVER & SERVICE LATERALS SHALL HAVE 2.0% MIN. GRADE. STORM DRAINS SHALL HAVE 2.0' MIN. COVER
- ALL PARKING & DRIVEWAY AREAS ARE TO BE PAVED WITH 2.5" A.C. & 8" AGGREGATE BASE ROCK OVER GEOTEXTILE FABRIC.
- ALL PARKING STALLS ARE TO BE PERMANENTLY MARKED WITH STRIPES AND SIGNS AT THE HANDICAP STALLS, TO LEWISTON CITY STANDARDS.
- ALL WORK DONE WITHIN CITY RIGHT OF WAY TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.
- SANITARY SEWER PIPING AND MANHOLES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF LEWISTON STANDARDS.
- ALL AVISTA CONDUITS WILL BE SCHEDULE 40 GRAY ELECTRICAL CONDUIT (LARGE SWEEPS, LONG COUPLERS)
- A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY.
- SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS AND INTERSECTIONS SHALL BE MAINTAINED.
- EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREET RIGHT-OF-WAY, AN TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE CONTRACTOR IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT.
- ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARDS.

LINE CROSSINGS



ZONE 1:

A) Potable Water and Non-potable Mains and Service Lines must be separated by at least 18 inches and

B) One full, uncut length of Non-Potable pipe must be centered so that the joints are as far as possible from the crossing.

ZONE 2: Potable line<18" over the top of Non-Potable line (Main and Services).

A) One full, uncut length of Non-Potable Water pipe must be centered on the crossing so that the joints are as far as possible from the Non-Potable line and

either B)

Non-Potable line must be constructed to Potable water pipe standards and pressure tested for water tightness for a horizontal distance of 10 feet on both sides of crossing,

or C)

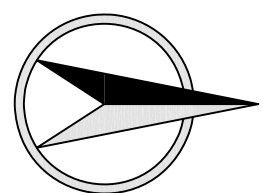
Non-Potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of 10 feet on both sides of the crossing, with no joints.

ZONE 3: Same requirements as Zone 2 except the Non-Potable line must also be supported above the crossing to prevent settling.

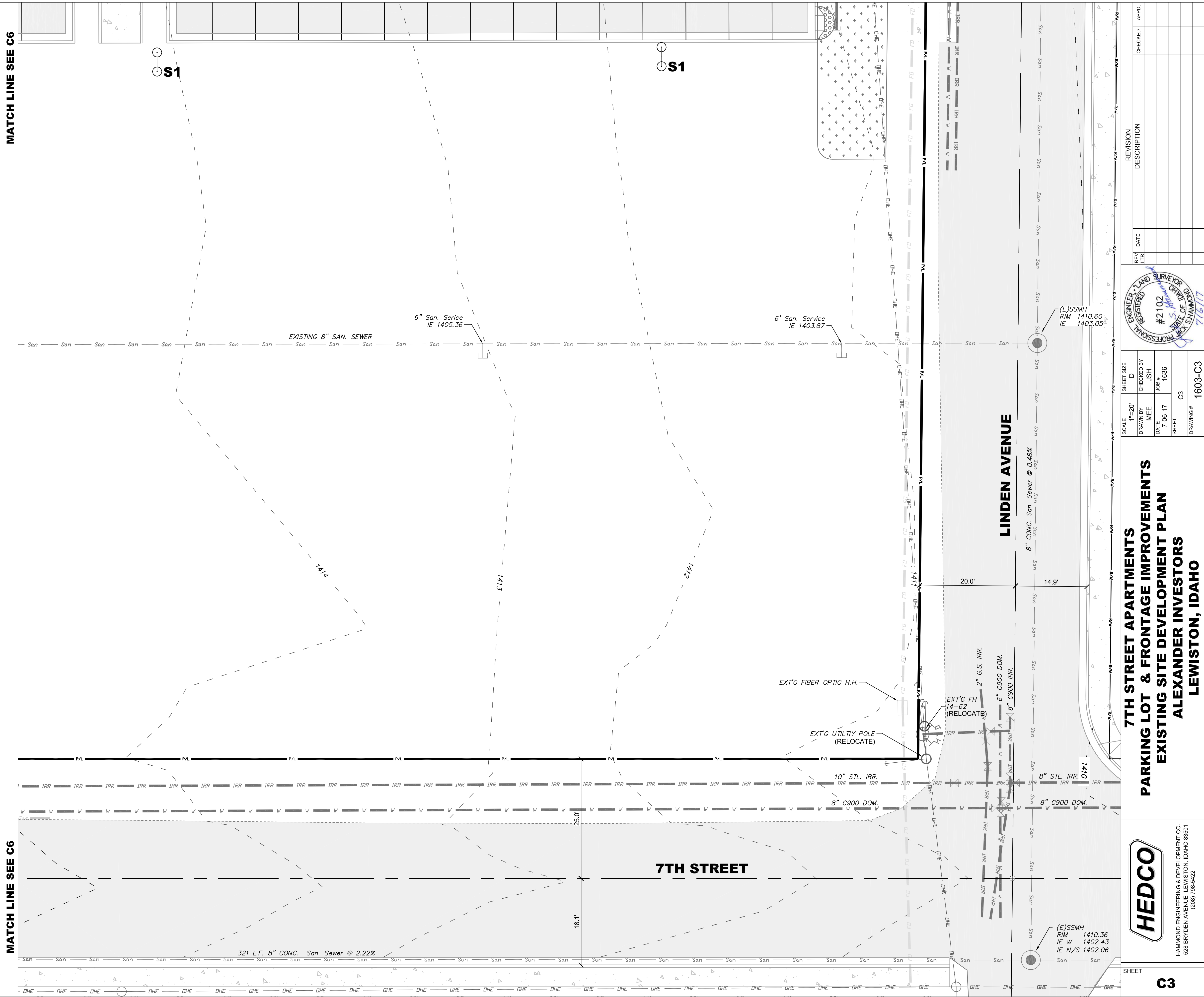
ZONE 4: Same requirements as Zone 1 except the Non-potable line must also be supported above the crossing to prevent settling.

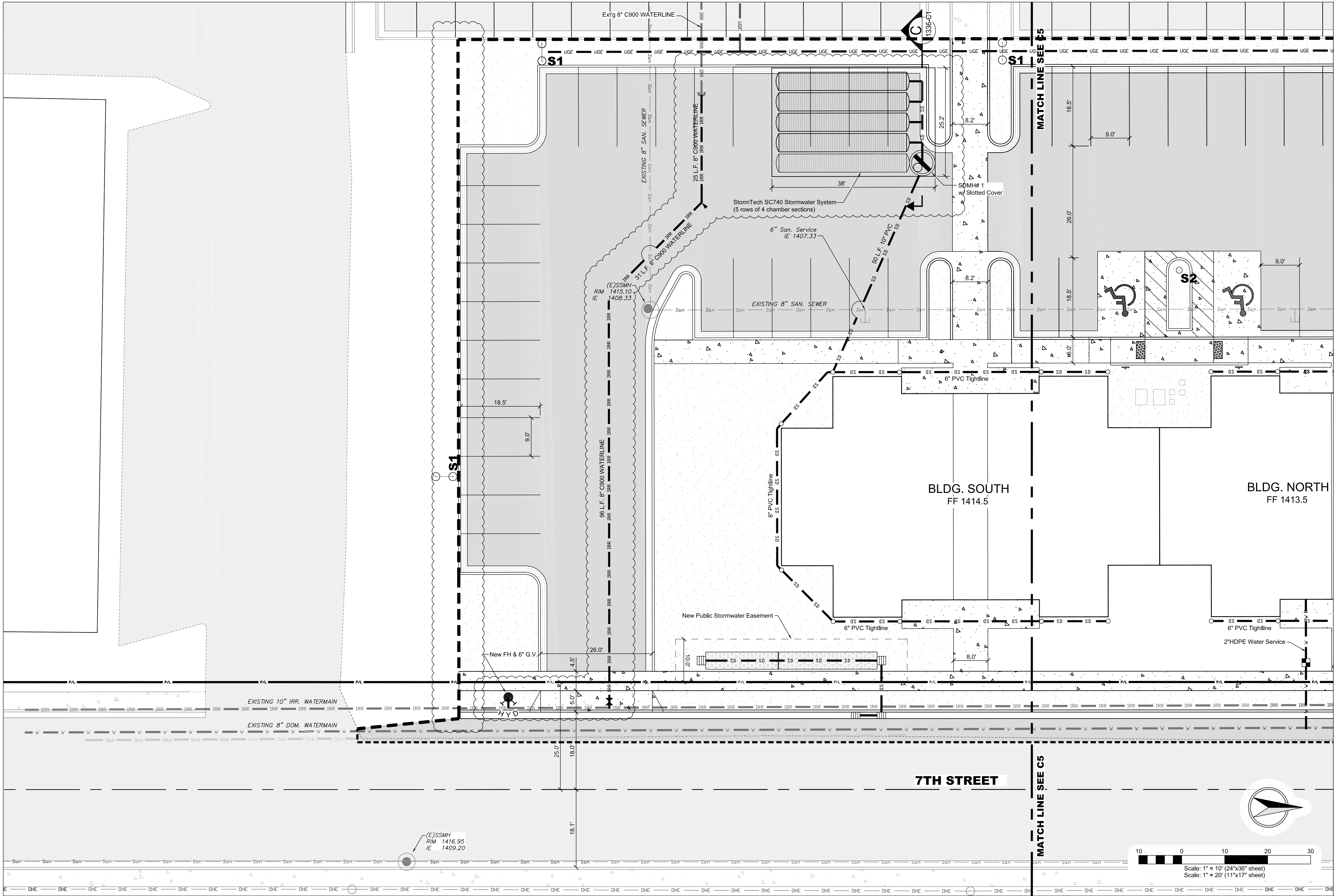
Sewage mains shall have at least eighteen inches of clearance from Potable Water mains and Zones 2 and 3 placements are prohibited. Separation requirements also apply to Potable and Non-Potable service lines controlled by the system owner and extending to the property line, service meter, or cleanout. Refer to IDAPA 58.01.01.542.07: Idaho Rules for Public Drinking Water Systems and IDAPA 58.01.16.430.0 Idaho Wastewater Rules.

		7TH STREET APARTMENTS PARKING LOT & FRONTAGE IMPROVEMENTS DETAILS & NOTES ALEXANDER INVESTORS LEWISTON, IDAHO		ENGINEER, LAND SURVEYOR REGISTERED #2102 S. J. HEDCO PROFESSIONAL 7/16/17 SCALE SHEET SIZE D DRAWN BY CHECKED BY DATE JOB # 7-06-17 1636 SHEET C0 DRAWING # 1603-C0		REVISION DESCRIPTION CHECKED APPROD. A 11-01-17 Revised Project Boundary, Stormwater System, Irr. Watermain, PH location	
SHEET		C1					



10 0 10 20 30
Scale: 1" = 10' (24"x36" sheet)
Scale: 1" = 20' (11"x17" sheet)





REVISION		DATE	BY	APPD.
NO.	DESCRIPTION			
1	Revised Project Boundary, Stormtech System, Ir. Watermain, FH location	11-01-17	A	

REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR

#2102

DATE OF EXPIRATION 7/16/17

JAC SHAW

SCALE	SHEET SIZE	D	CHECKED BY	DATE	JOBS	SHEET	DRAWING #
1"=20'	11"x17"		JSH	7-06-17	1636	C4	1603-C4

7TH STREET APARTMENTS

PARKING LOT & FRONTAGE IMPROVEMENTS

SITE DEVELOPMENT PLAN

ALEXANDER INVESTORS

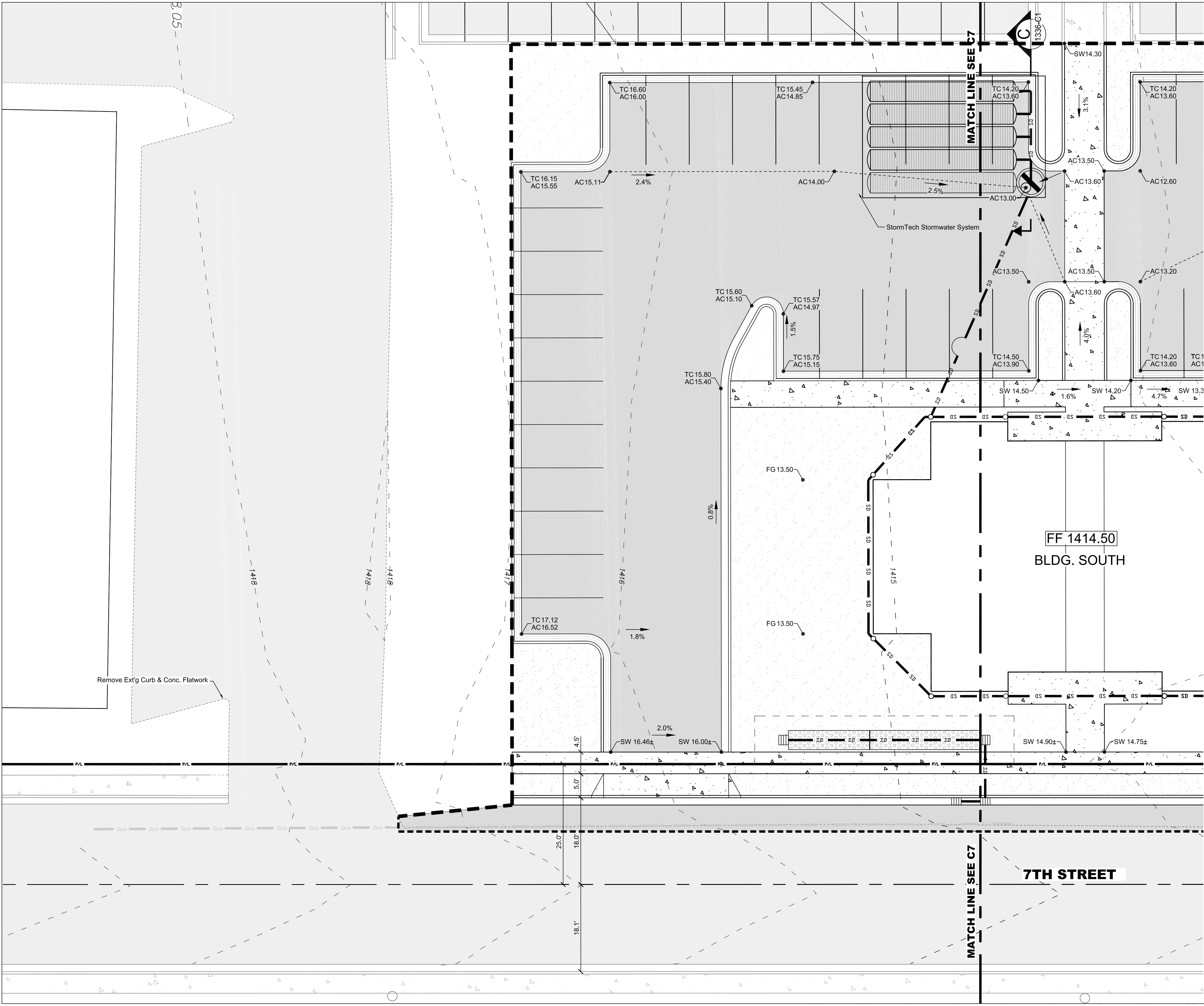
LEWISTON, IDAHO

HEDCO

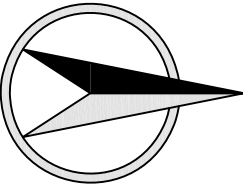
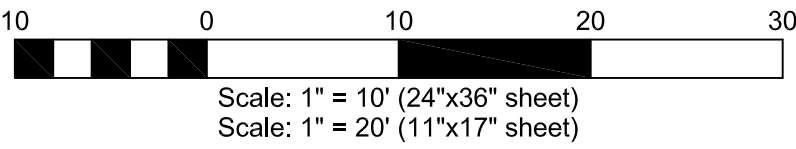
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET

C4



- NOTES:
- Open face gutter shall be constructed where drainage is directed away from curb.
 - Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
 - Open face gutter locations are indicated by shading and notes on the grading plan.
- Spill Curb
Catch Curb



REVISION		CHECKED	APPROVED
DESCRIPTION	DATE	LTR.	DATE
Revised Project Boundary, StormTech System, Ir. Watermain, FH location			
A 11-01-17			

REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR
#2102
JOSHUA SHAW
STATE OF IDAHO
7/16/17

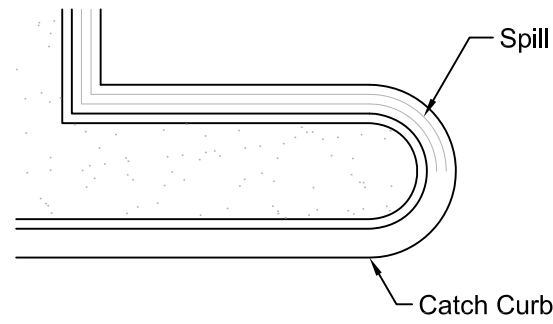
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1"=20'	D	JSH	7-06-17	C6	1603-C6
DRAWN BY	MEE	JSH	1636		
DATE	7-06-17				

**7TH STREET APARTMENTS
PARKING LOT & FRONTAGE IMPROVEMENTS
SITE GRADING PLAN
ALEXANDER INVESTORS
LEWISTON, IDAHO**

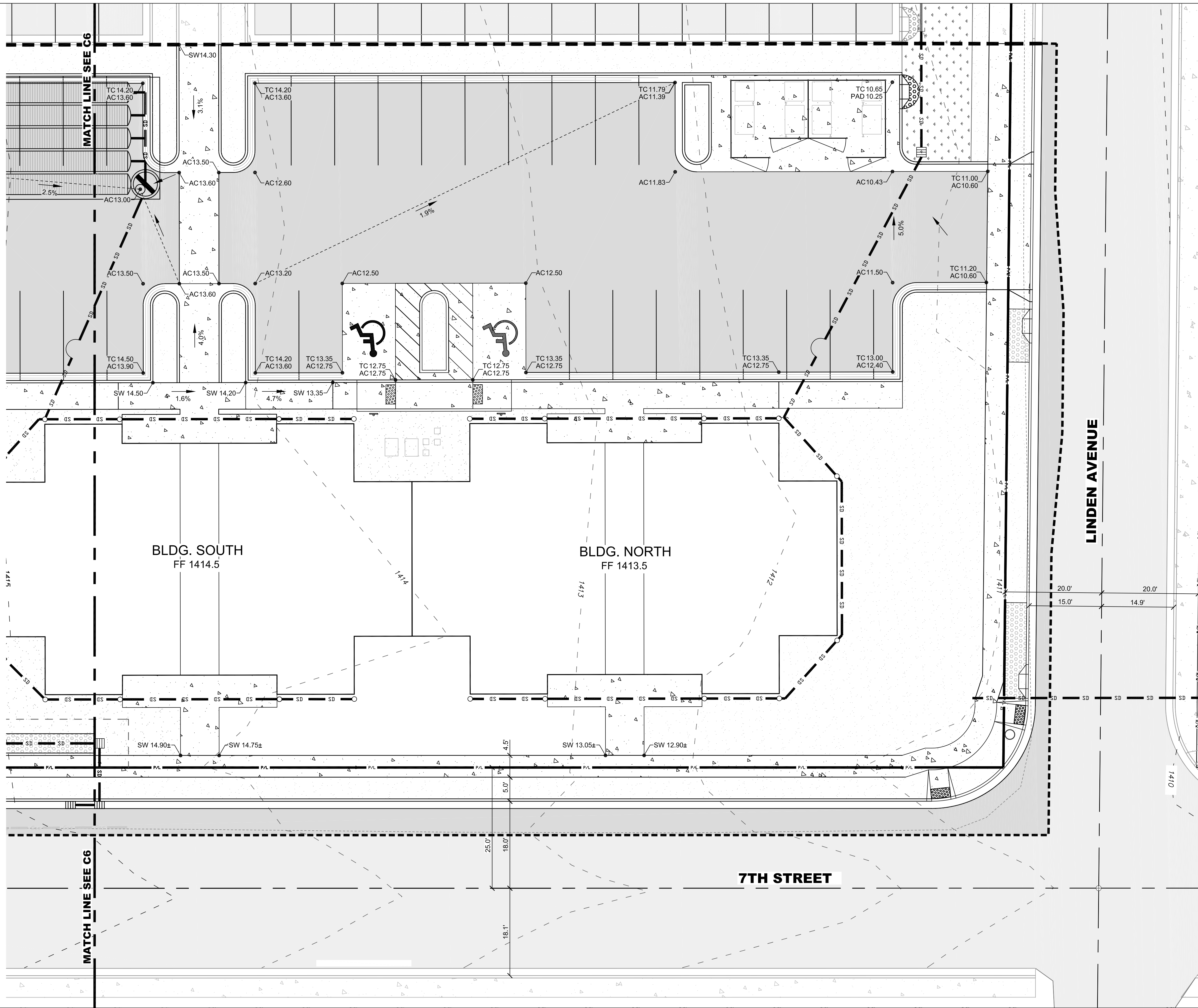
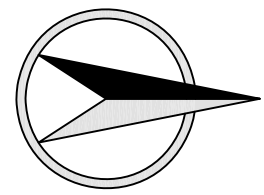
HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET **C6**

- NOTES:
1. Open face gutter shall be constructed where drainage is directed away from curb.
 2. Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
 3. Open face gutter locations are indicated by shading and notes on the grading plan.



10 0 10 20 30
Scale: 1" = 10' (24"x36" sheet)
Scale: 1" = 20' (11"x17" sheet)



REVISION		DESCRIPTION		CHECKED		APPRO.	
REV.	DATE	LTR.					
A	11-01-17		Revised Project Boundary, Stormwater System, In, Watermain, FH location				
SHEET		DRAWING #		DATE OF		DRAWING #	
C7		1636-C7		7/16/17			

ENGINEER AND SURVEYOR

REGISTERED

#2102

DATE OF

7/16/17

PROFESSIONAL

JAC SHAW

SCALE

1"=20'

DRAWN BY

MEE

DATE

7-06-17

CHECKED BY

JSH

JOB

1636

SHEET

C7

DRAWING #

1636-C7

HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.

528 BRYDEN AVENUE LEWISTON, IDAHO 83501

(208) 750-5422

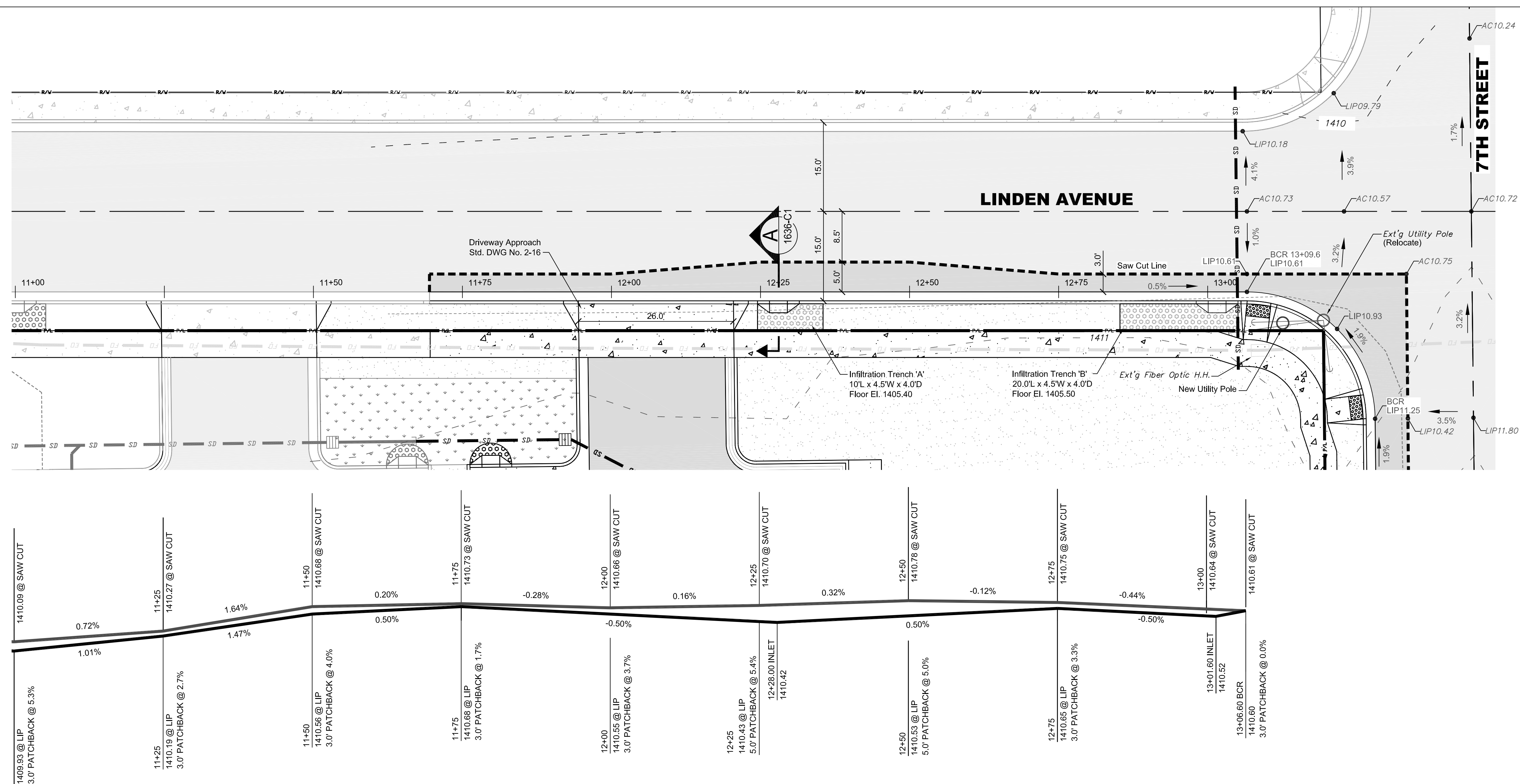
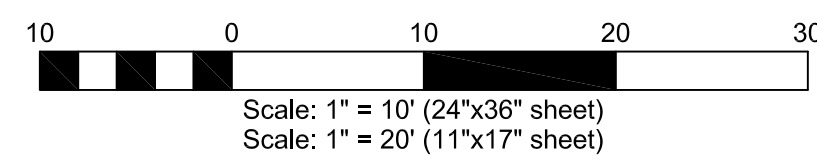
7TH STREET APARTMENTS

PARKING LOT & FRONTAGE IMPROVEMENTS

SITE GRADING PLAN

ALEXANDER INVESTORS

LEWISTON, IDAHO



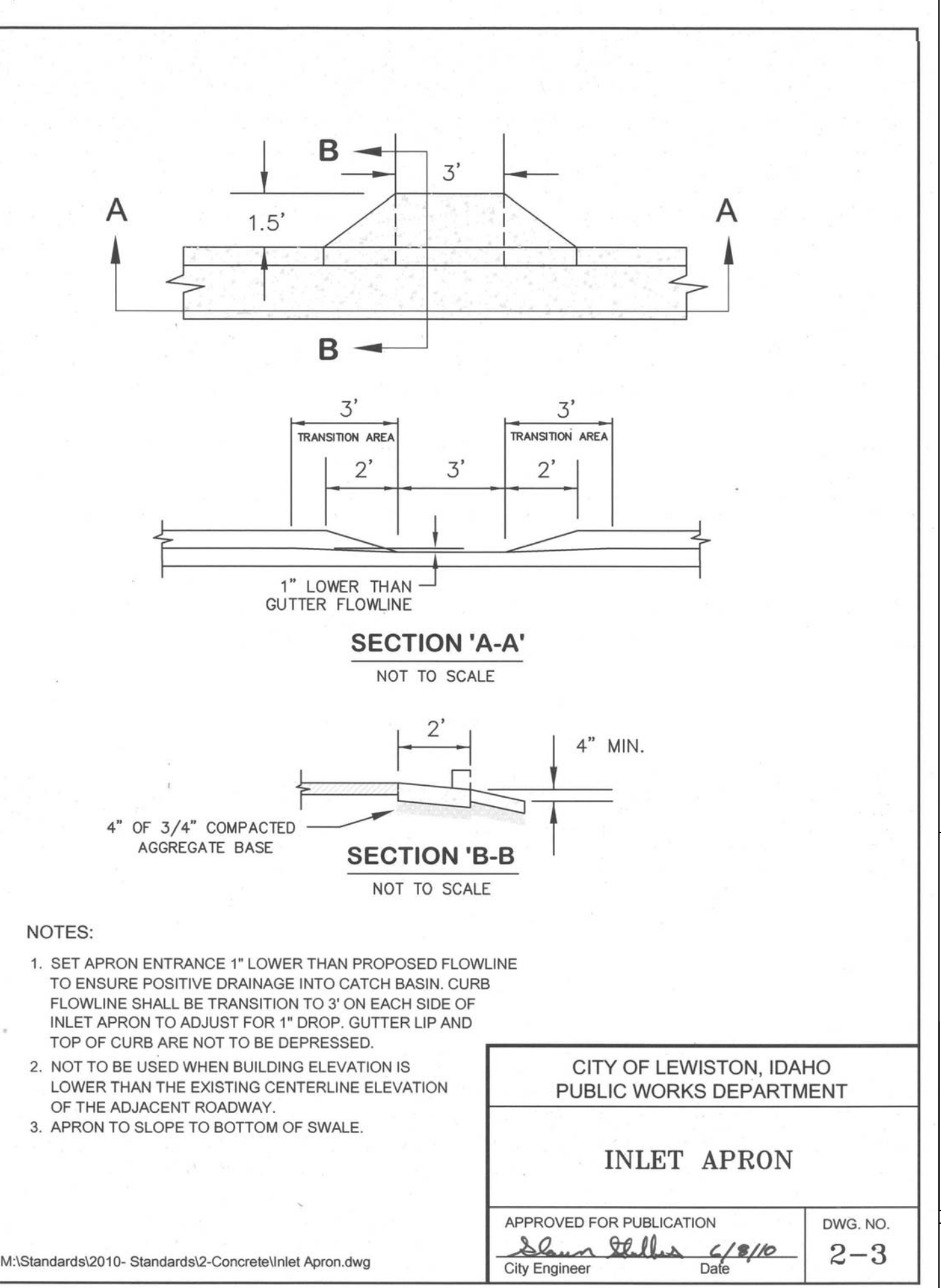
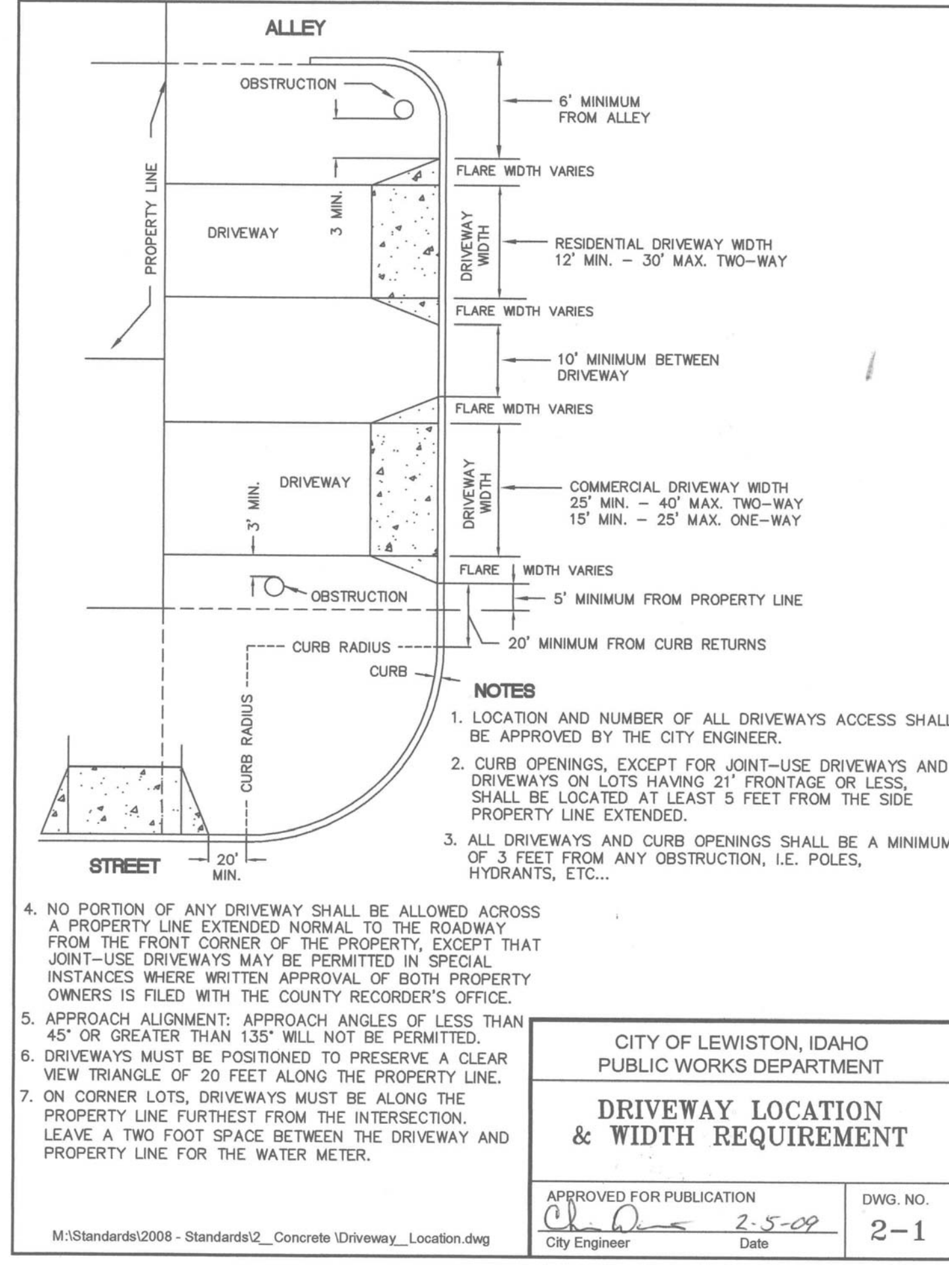
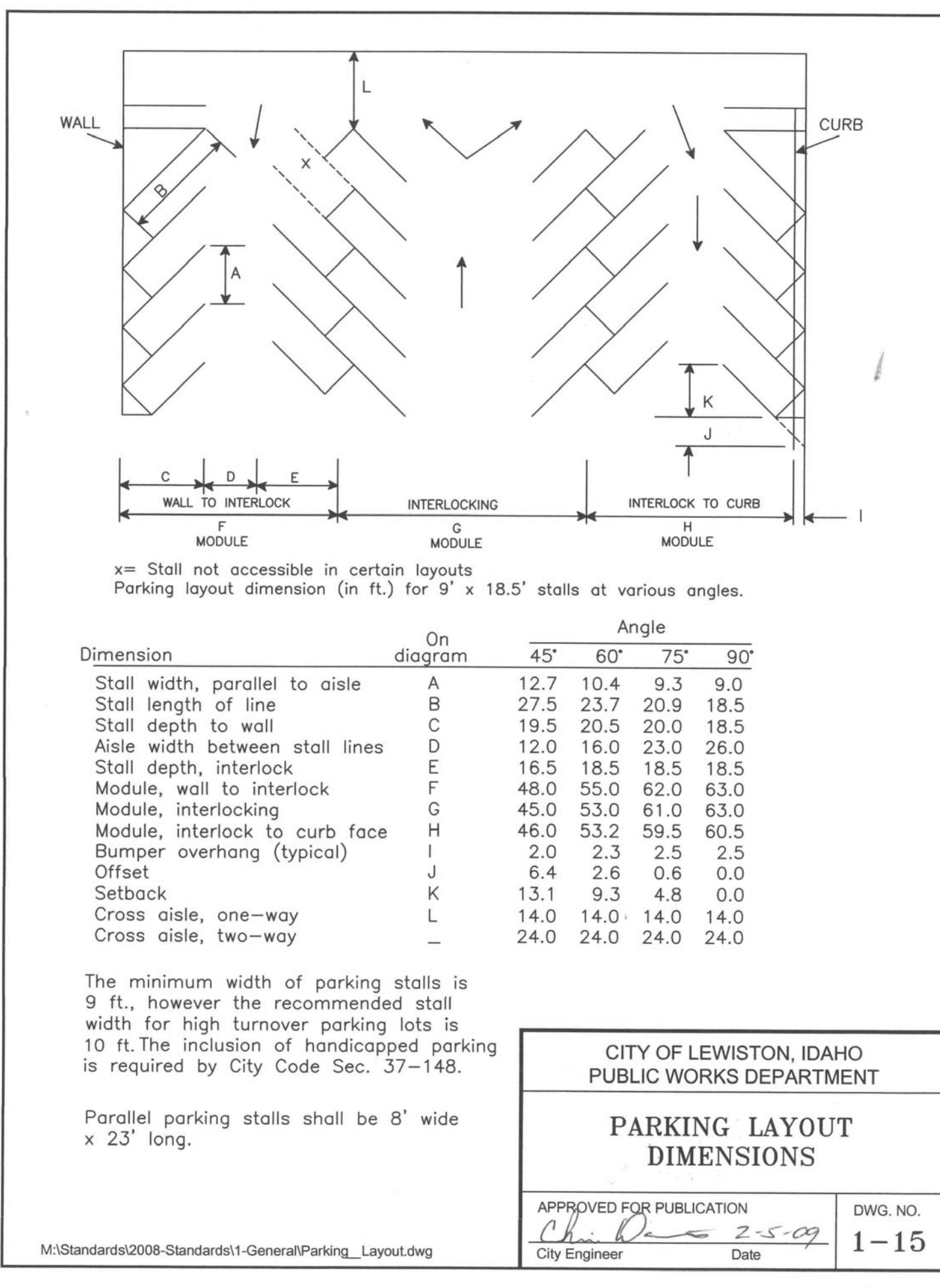
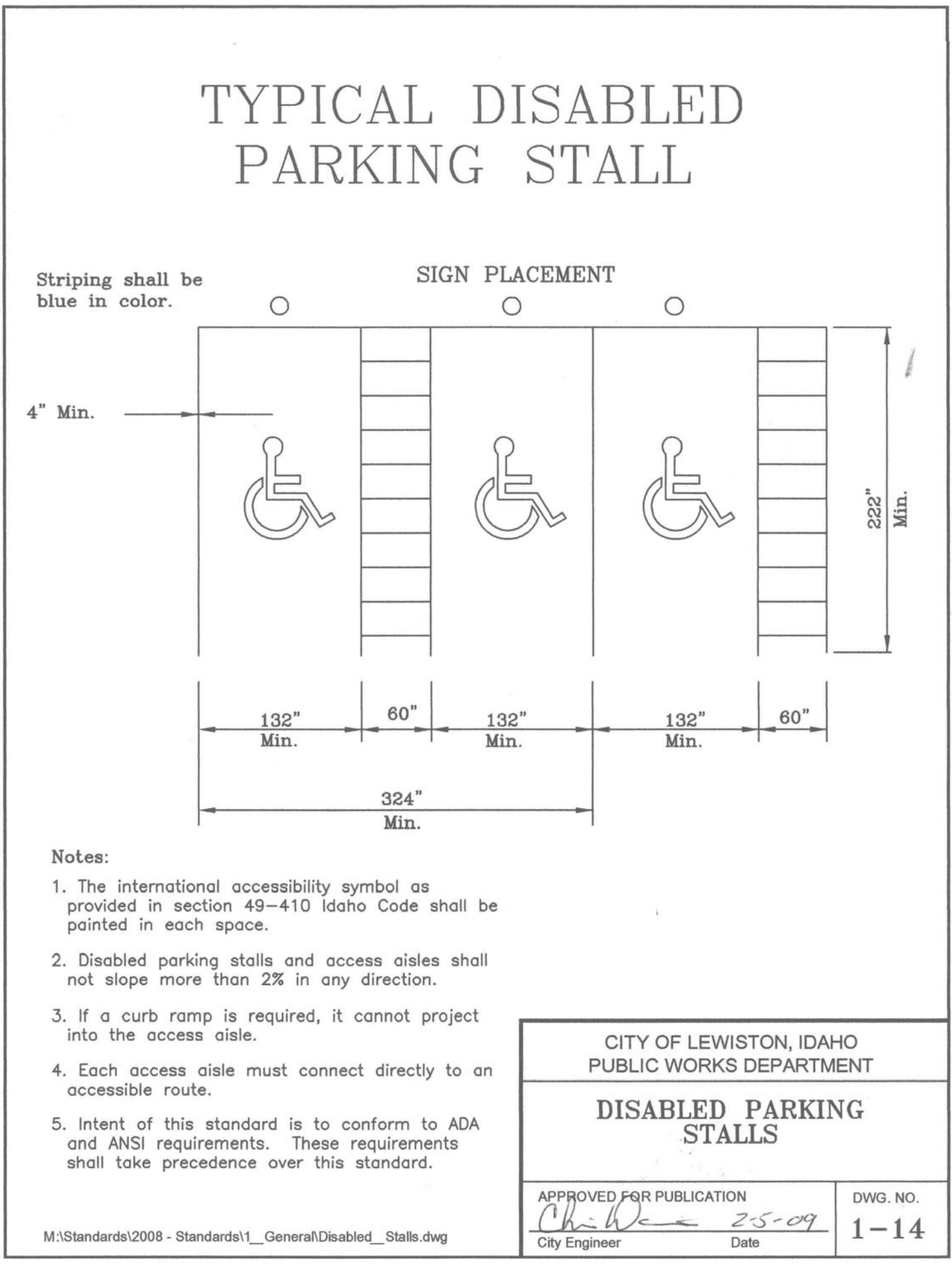
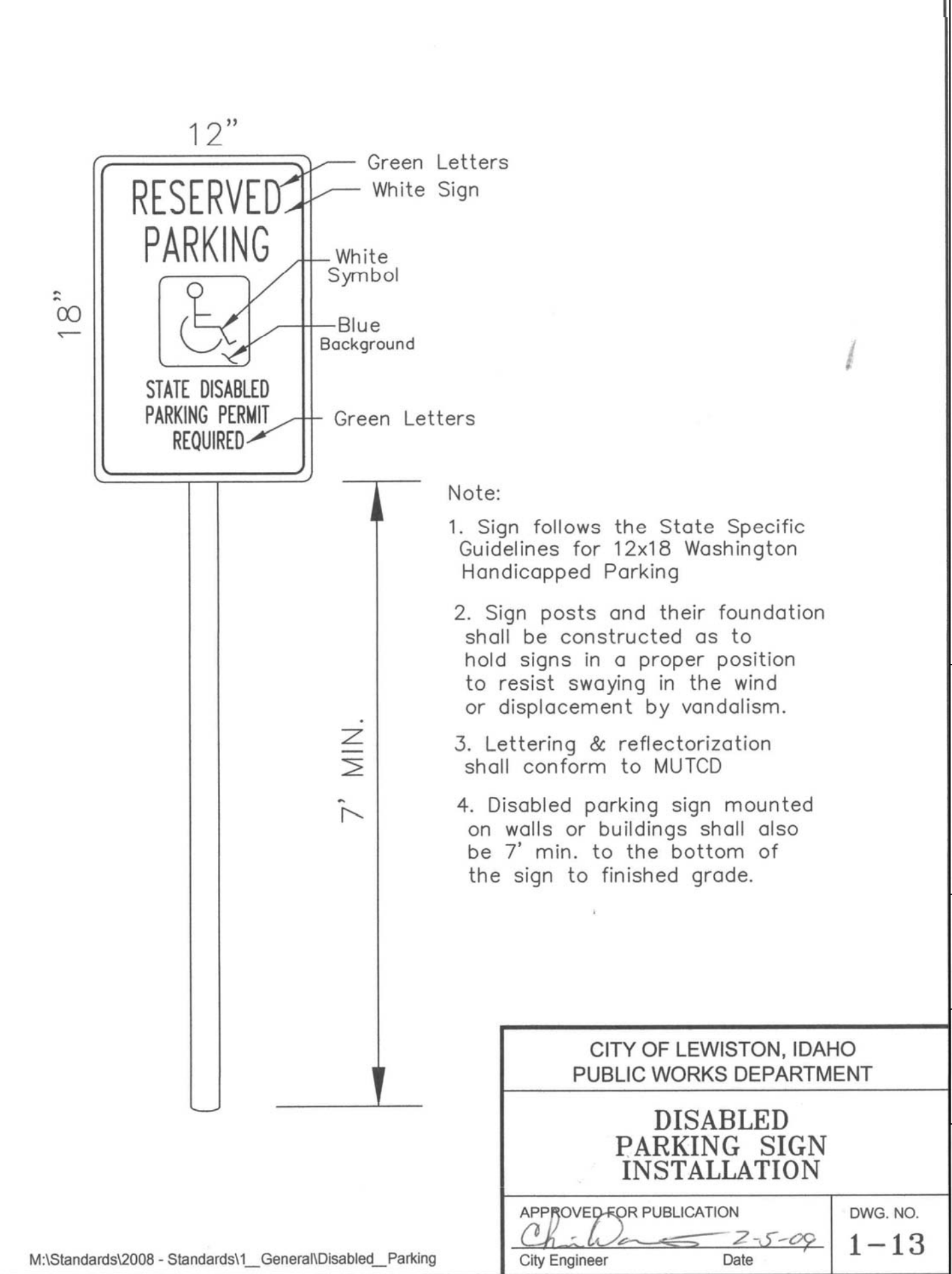
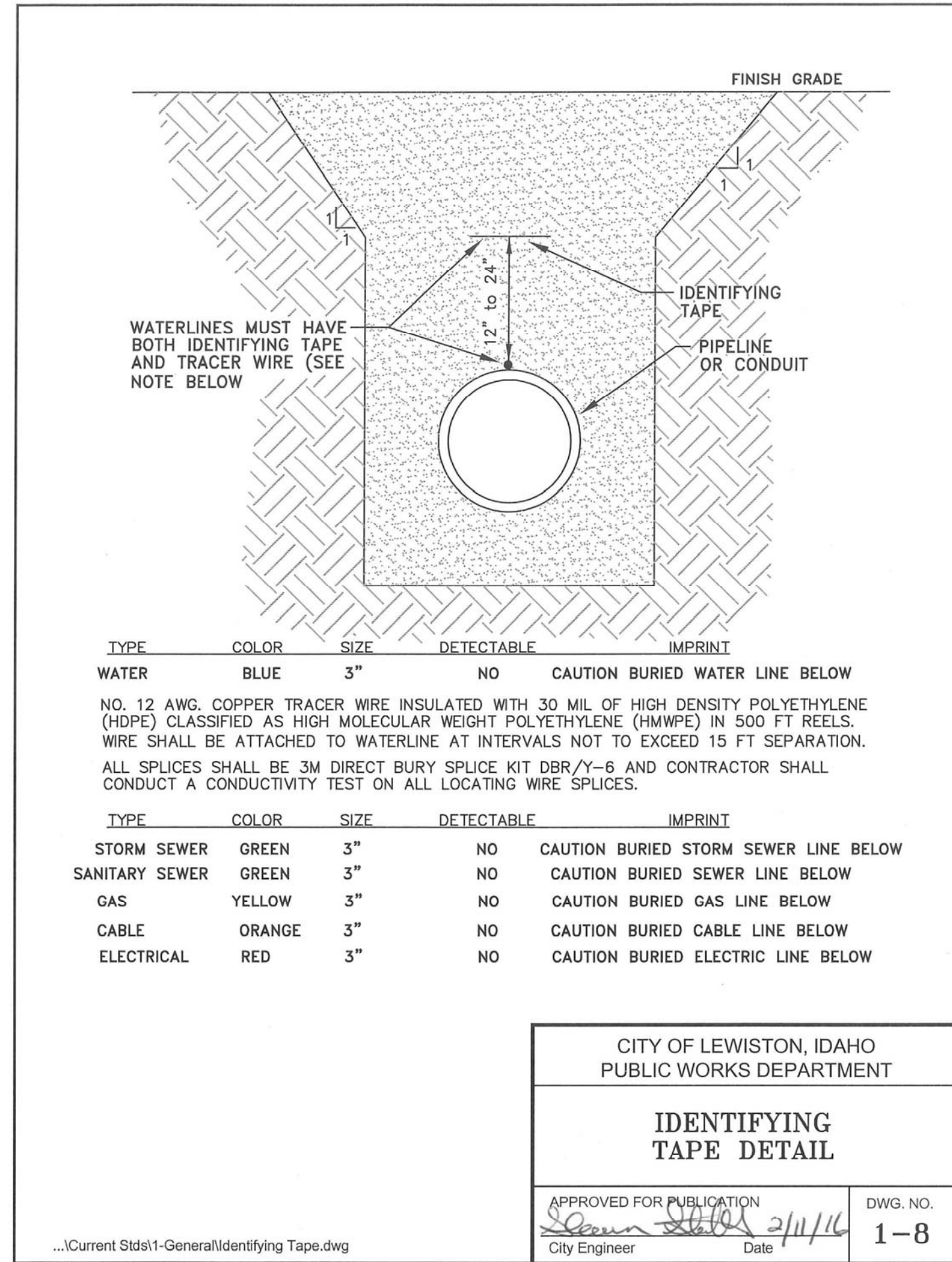
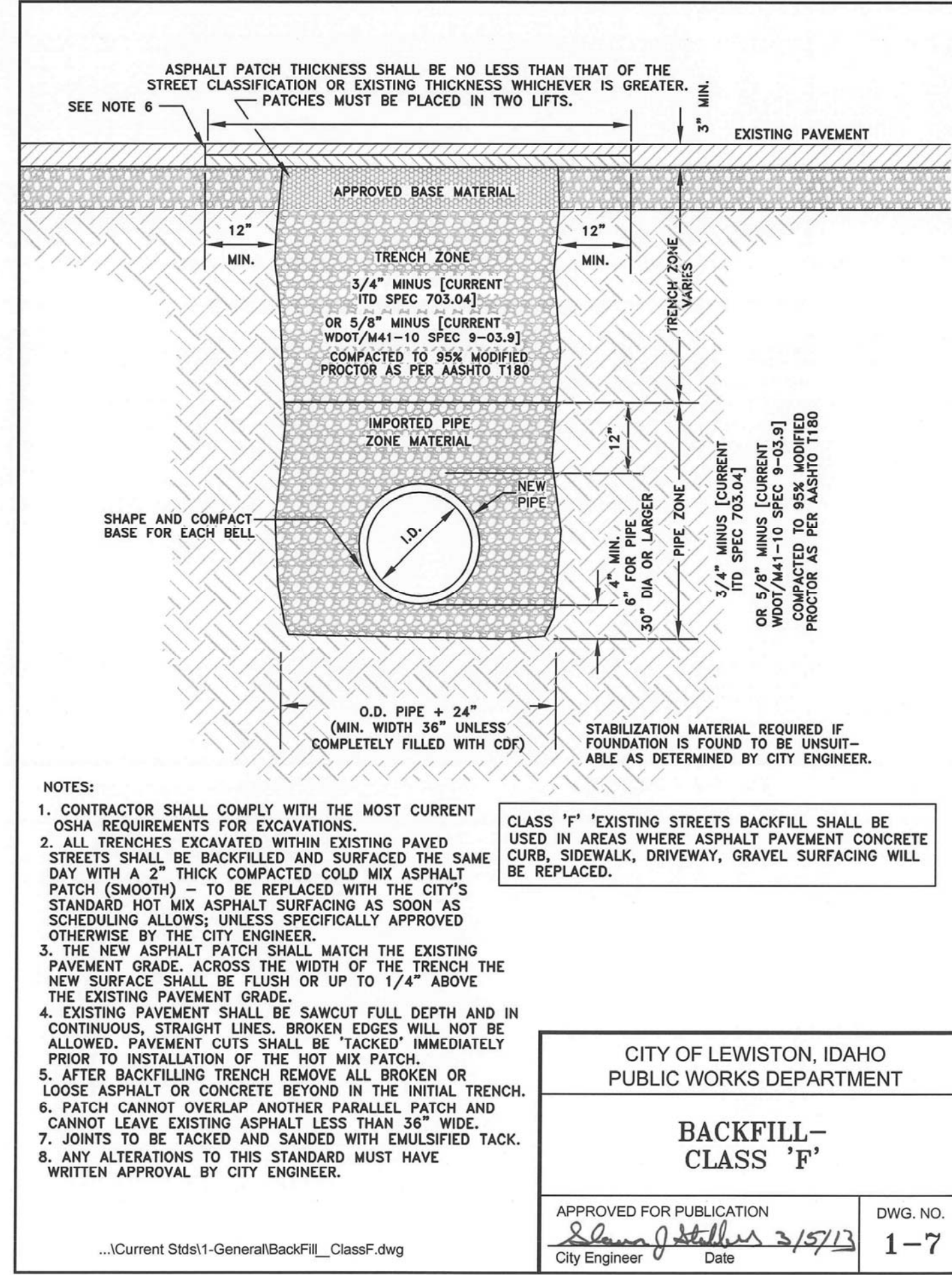
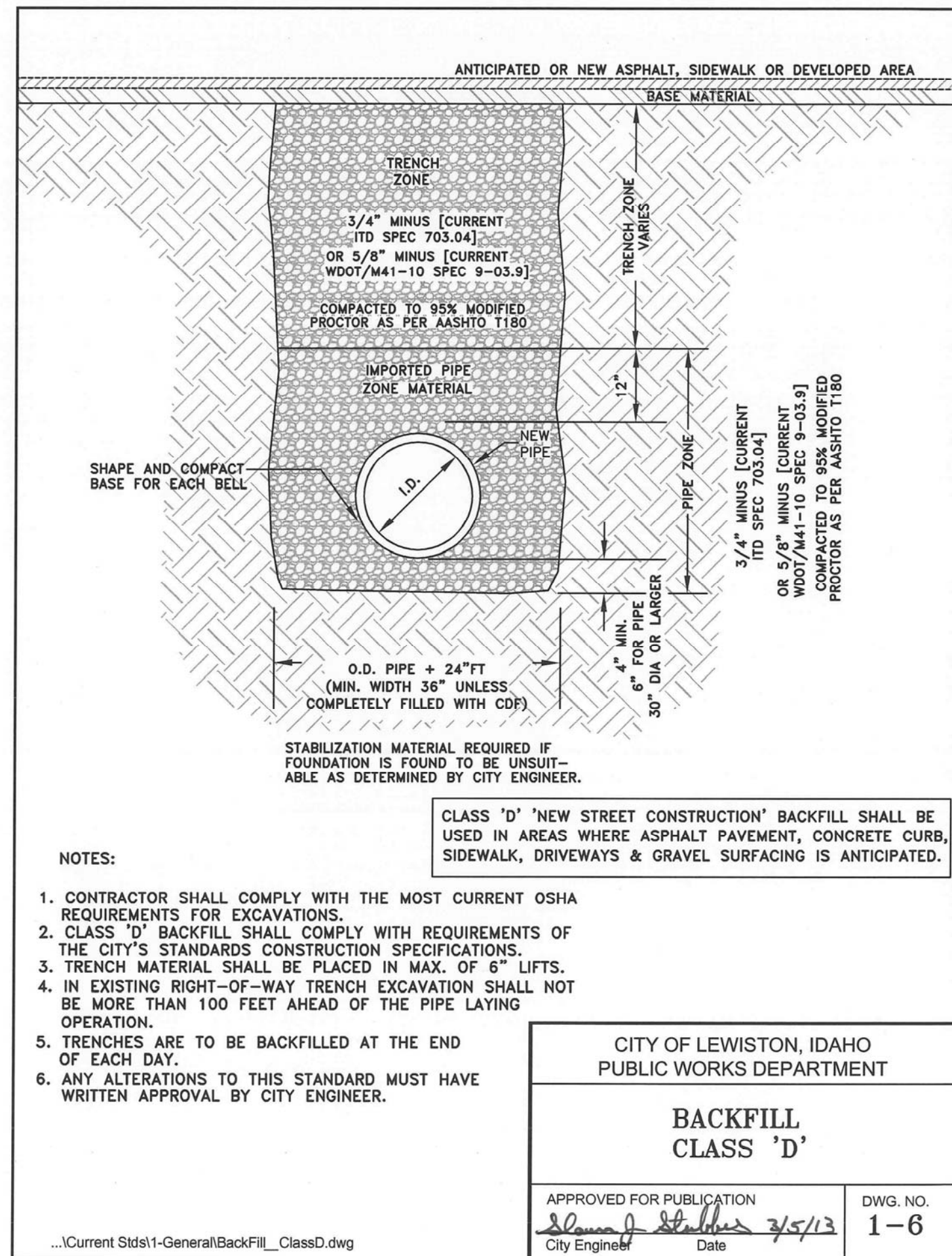
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 798-5422

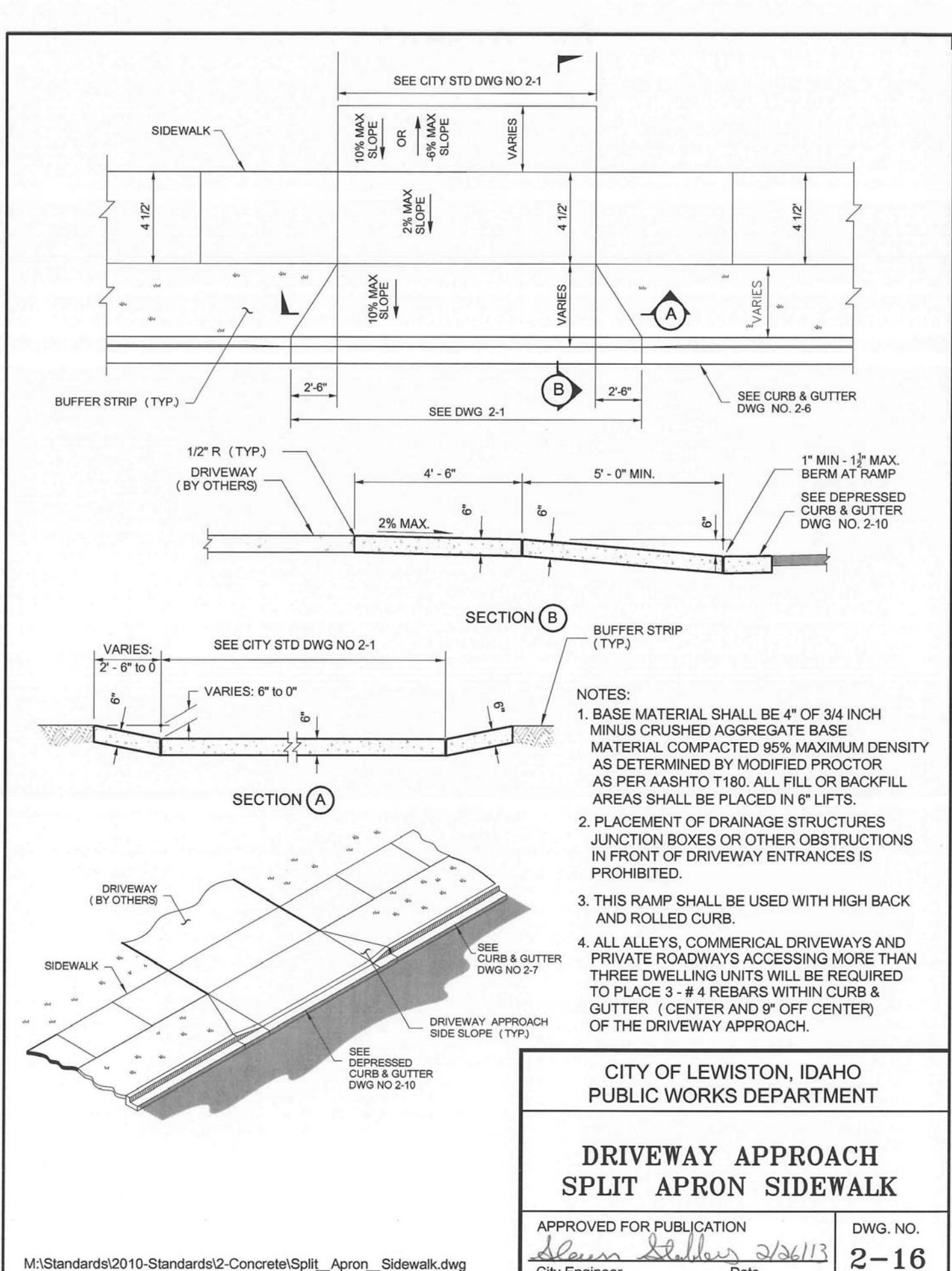
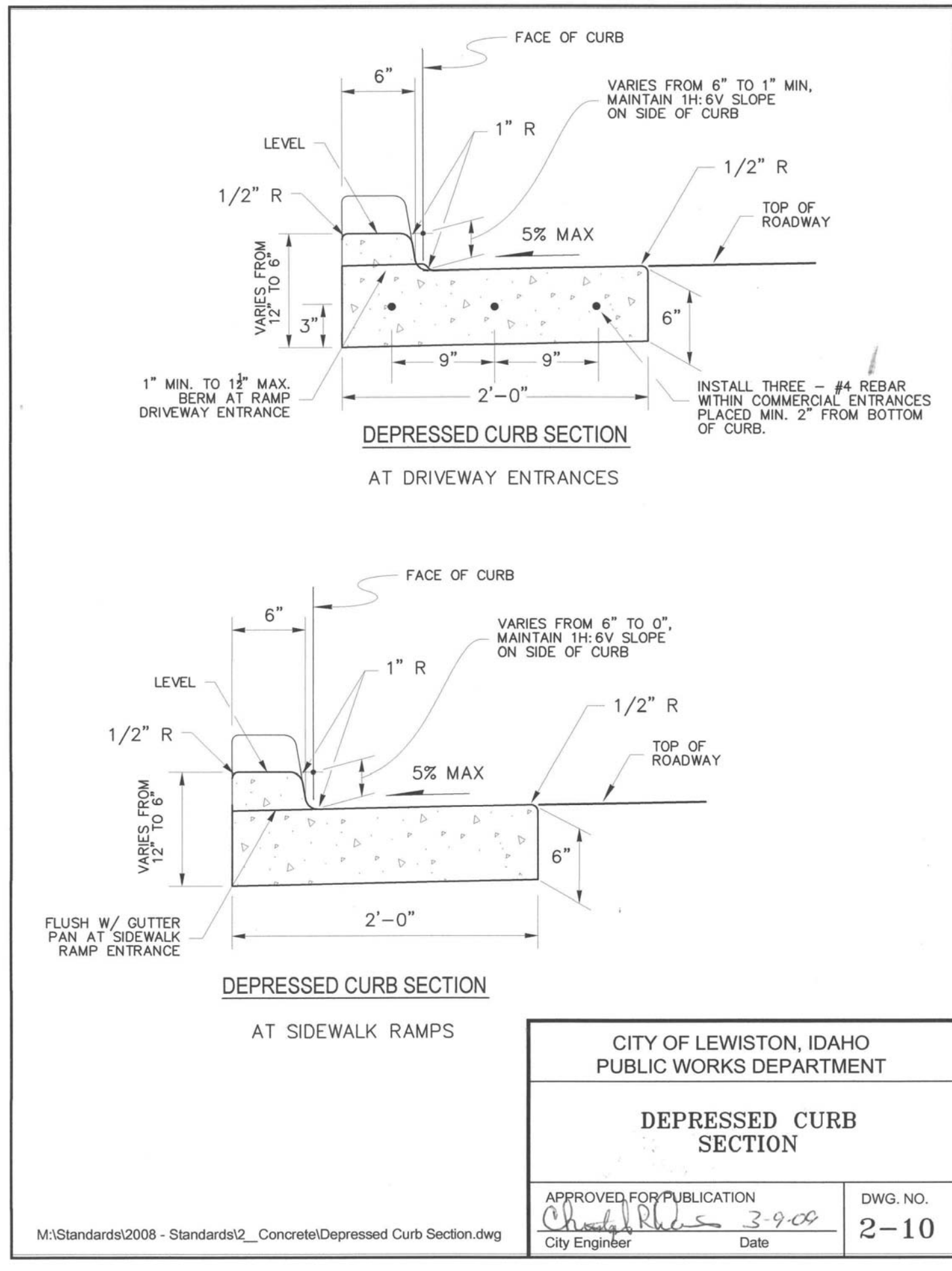
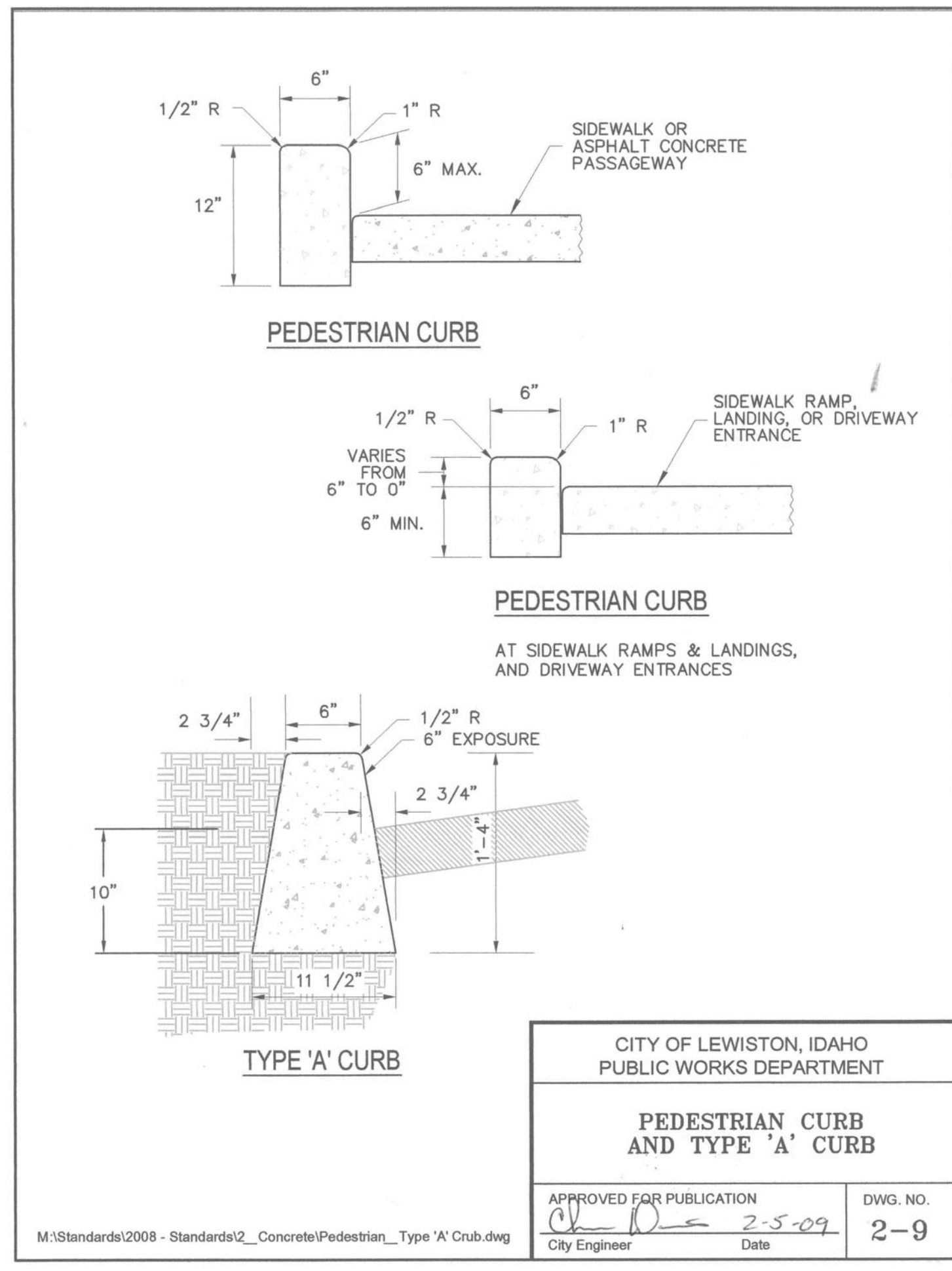
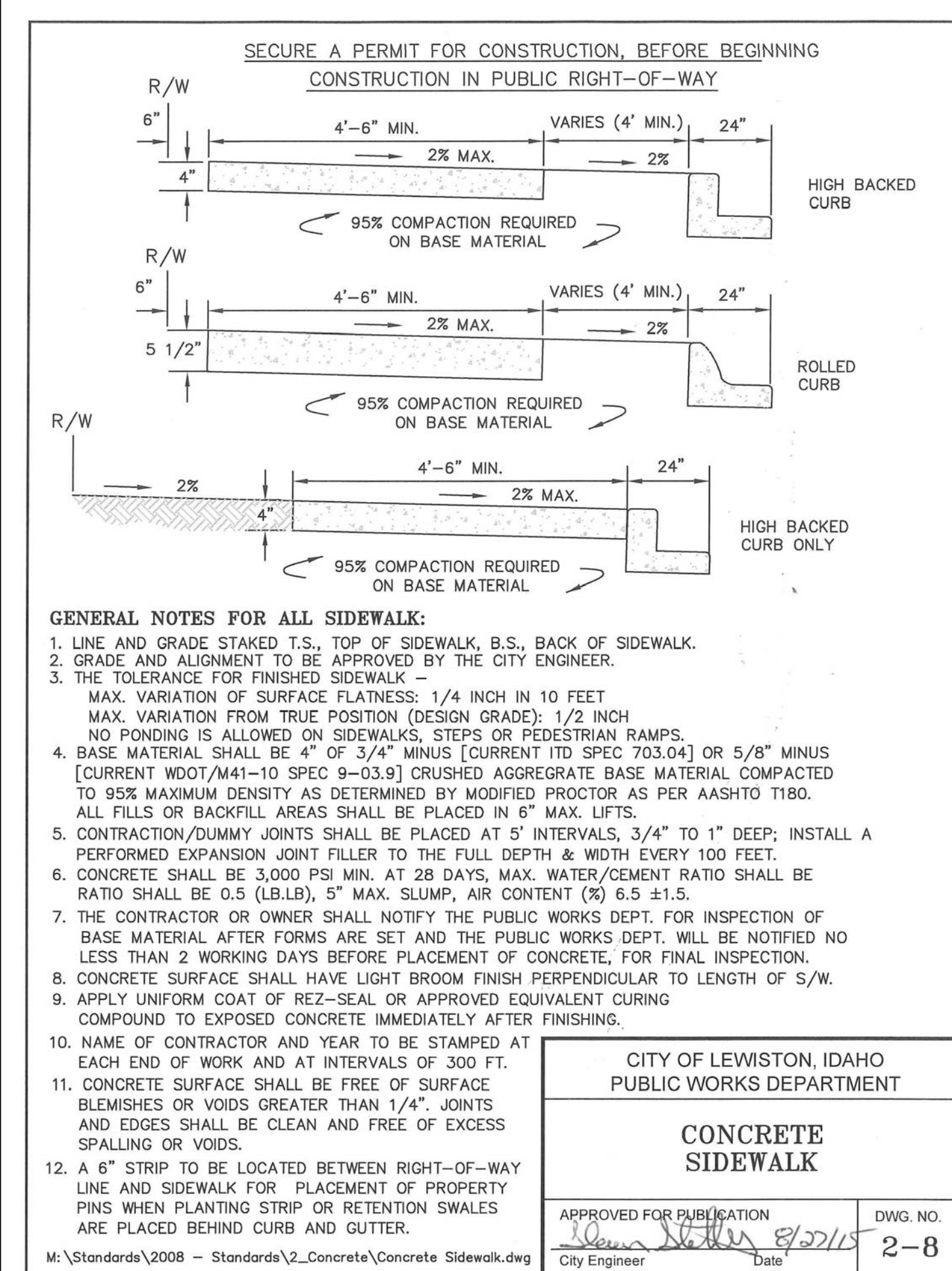
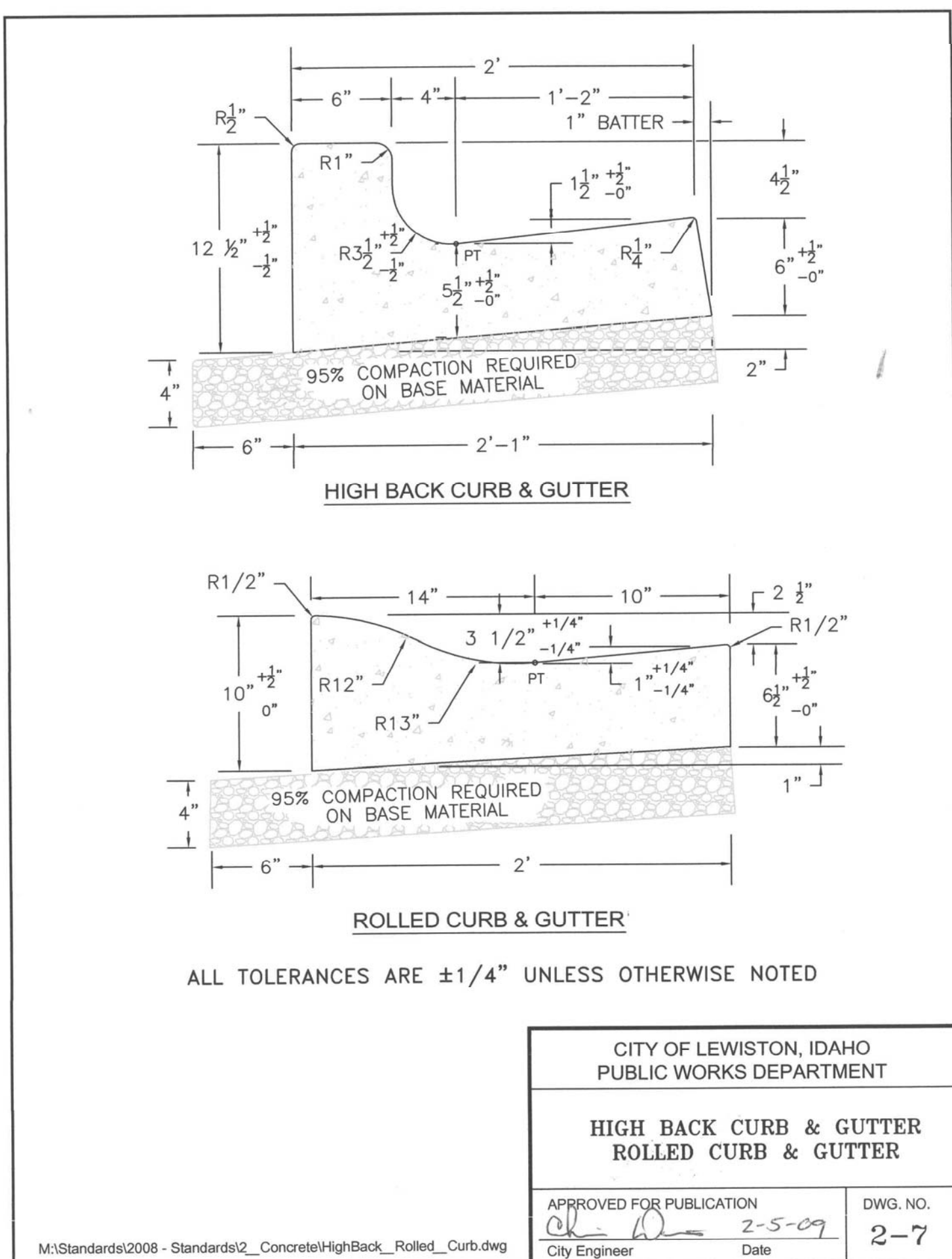
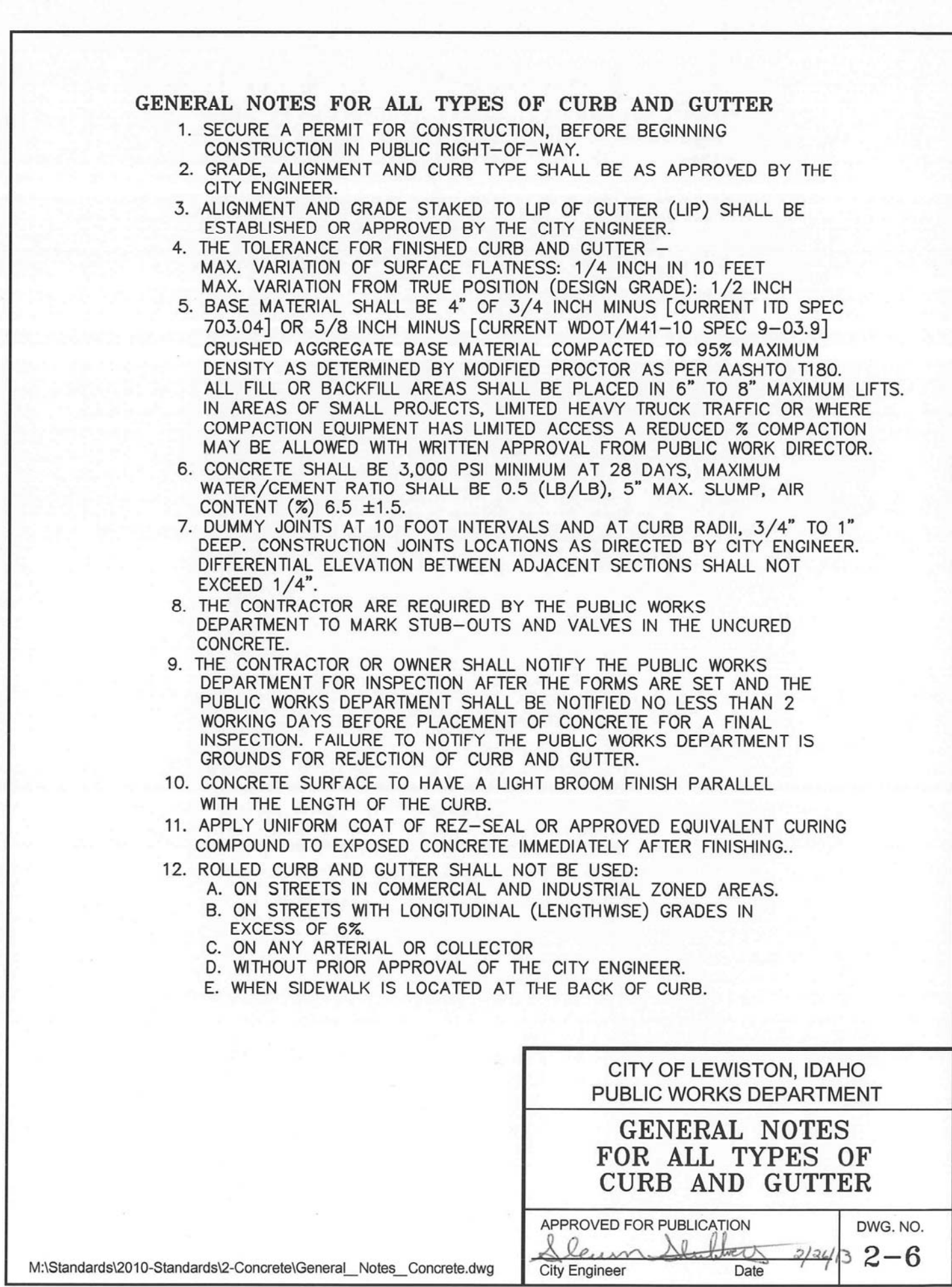
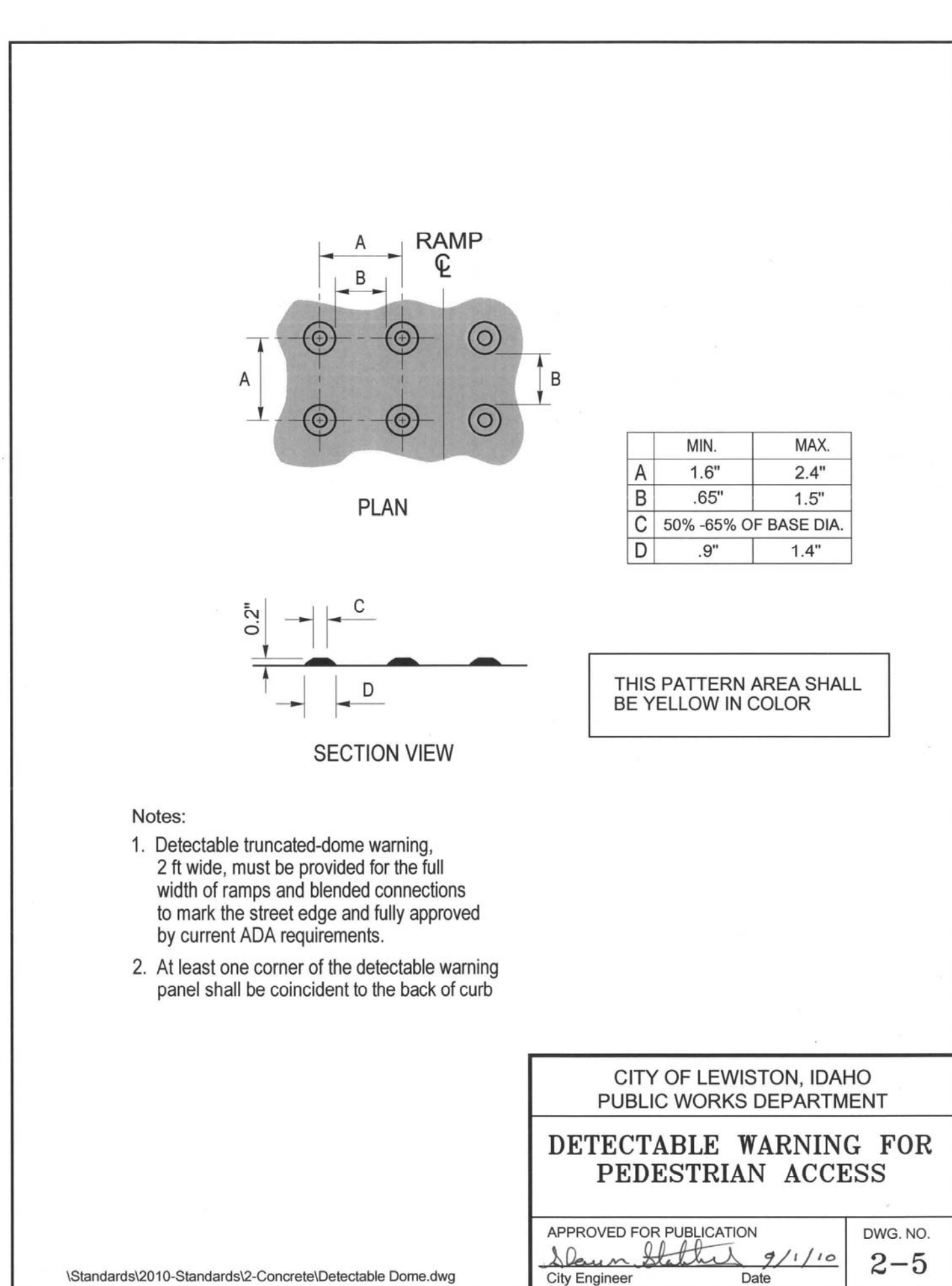
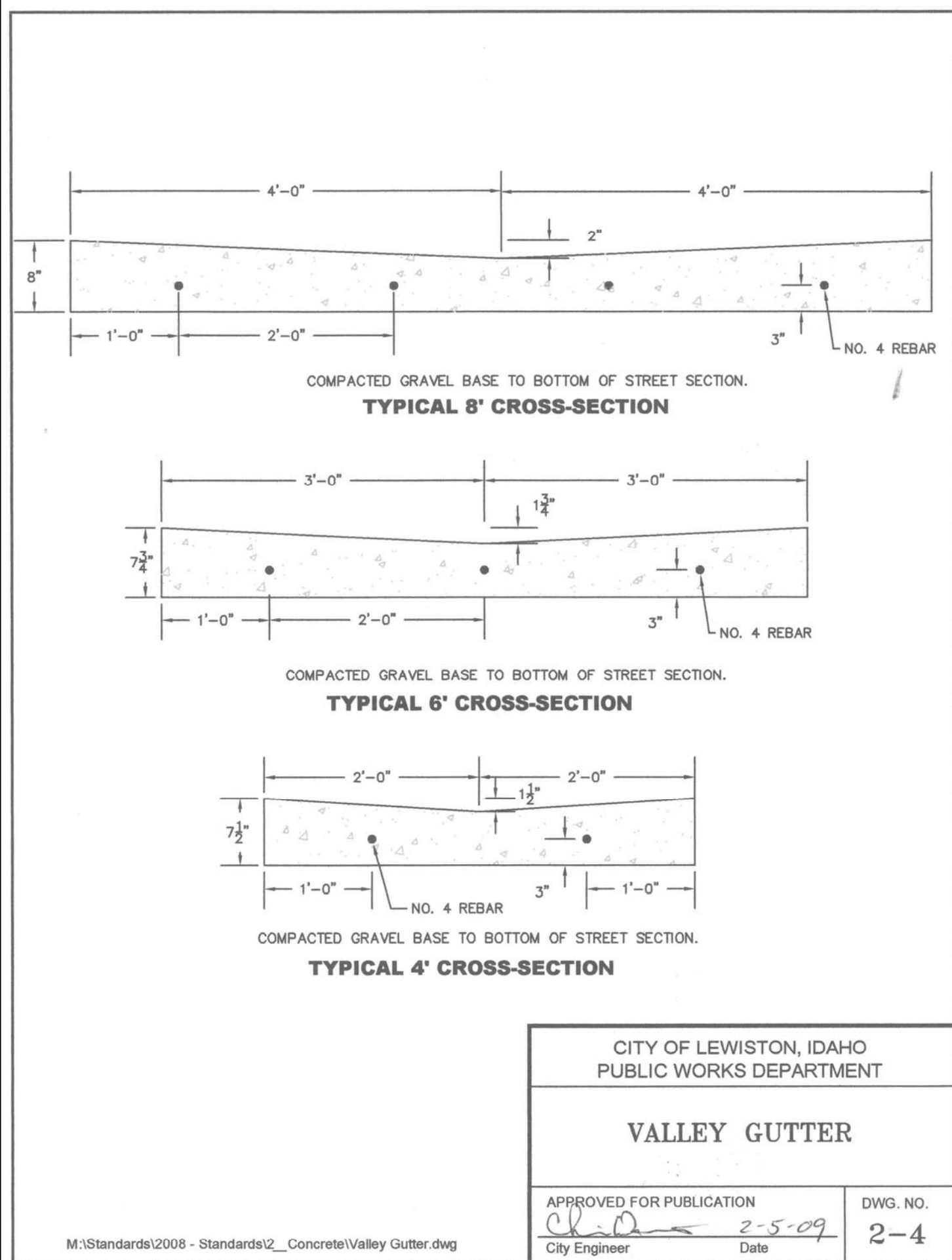
**7TH STREET APARTMENTS
PARKING LOT & FRONTAGE IMPROVEMENTS
LINDEN AVE FRONTAGE IMPROVEMENT PLANS
ALEXANDER INVESTORS
LEWISTON, IDAHO**

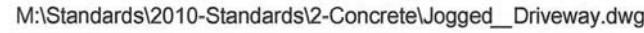
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DRAWN BY	MEE	CHECKED BY	JSH
DATE	7-06-17	JOB #	1636
SHEET	C8		
DRAWING #		1636-C8	

[illegible]

C8







**7TH STREET APARTMENTS
PARKING LOT & FRONTAGE IMPROVEMENTS
STANDARD DETAILS
ALEXANDER INVESTORS
LEWISTON, IDAHO**