

	ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/C.O.	DATE	INITIAL
1.	ALL UTILITY TRENCHES & STRUCTURES							
	TRENCH SUBGRADE	Native (6" to 8" Lifts Max.)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 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)			
	PIPE BEDDING	¾" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR ½" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOTM4-10 Spec 9-03.9)	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 lift per 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 top 6" or 12" cover.			
	1st FOOT [12"] OF FILL OVER PIPE	¾" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR ½" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOTM4-10 Spec 9-03.9)	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 lift per 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).			
	TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK	¾" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR ½" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOTM4-10 Spec 9-03.9)	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 lift per 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)			
	TRENCH BACKFILL UNDER EASEMENT / NON-TRAFFICKED AREA	Native Soil Free of Unsuitable Material w/ 4" Max Particle Size (8" Max. Lift)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 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)			
	STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
2.	STORM DRAIN MAINS							
	GASKETED PE Storm Sewer Pipe ALIGNMENT AND GRADE	Polyethylene, ADS N-12 or Equal	Per Manufacturer's Instructions	Certified & Visual by City	Per Plan Each Joint	Certified & Visual by City		
	JOINTS (Deflection Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions	If required by City Engineer	Between Access Holes			
	PRESSURE TEST MANHOLES	Concrete	4 PSI for 15 Minutes, 1/2 PSI Drop		N/A	Certified & Visual by City		
	VIDEO INSPECTION	N/A	City Standard	Public Works Policy No 2012-1				
3.	WATER MAINS							
	DUCTILE IRON or PVC WATER MAIN ALIGNMENT AND GRADE	AWWA C-151, C-600, C-905 (Class as Rec'd)	AWWA C-600, AWWA C-605	Certified & Visual by City	Per Plan Each Joint	Certified & Visual by City		
	JOINTS (Deflection Proper Pipe Embedment)	N/A	AWWA C-600, AWWA C-605		Each Joint			
	THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans/or City Std Draw # 4-4		Between Access Holes	Certified & Visual by City		
	HYDROSTATIC PRESSURE	N/A	2 hrs. NTE Allowable Leakage Per AWWA C-600, AWWA C-605		150% Working Pressure OR 1½ times the Working Pressure in the Water System			
	CHLORINATION/BACTERIA	N/A	AWWA C-651		Bacterial Testing two negative testing samples 24 hours apart	City of Lewiston		
4.	WASTEWATER MAINS							
	PVC WASTEWATER MAIN ALIGNMENT AND GRADE	PVC, SDR 35	ASTM 3034		N/A			
	JOINTS (Deflection Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Per Plan Each Joint			
	PRESSURE TEST	Concrete	Hydraulic Test		Between Access Holes			
	VIDEO INSPECTION	N/A	No Penetrations, Dents or Dimples, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes			
5.	CONCRETE CURB, GUTTER & SIDEWALK							
	CONCRETE	CLASS 35B - Approved Mix Design Required with Min Cement Content of 550 Lb/Cy Max Water/Cement Ratio of .44, a WPA, and an SEA	AASHTO T-22 Compressive Strength of Concrete AASHTO T-23 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-192 Air Content of Freshly Mixed Concrete AASHTO T-309 Temperature of Freshly Mixed Concrete WAQTC TM-2 Sampling Freshly Mixed Concrete	Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.5 ratio. Max. Slump = 5 inches Air Content Percent = 6.0% ± 1.5 Temperature = 50°F ± .80° + 0.02' from Design Grade/Alignment + 0.02' HO Segment	1 of Each Test Minimum per Day, or 1 of Each Test per 50 Cy			
	ALIGNMENT AND GRADE	N/A	Visual		Per 10' Section	City Approval		
	JOINTS/FLATNESS/STRAIGHTNESS	N/A	Visual		Per 10' Section			
	FINISH	N/A	Visual	Floated, Uniform, Light Broom Finish	Entire Surface Area			
6.	ASPHALTIC CONCRETE PAVING							
	HOT MIX ASPHALT	ITD Class II 1/2" - Apprx Mix Design Required (2004 ITD Specs RG, 702, and 703.05)	AASHTO T 166, Method C, Specific Gravity of HMA AASHTO T 206, Test for Maximum Specific Gravity WAQTC TM-8, In-Place Density of Bituminous Mixes	92%-95% Max. Theoretical Density	1Test Per 750 Ton-Min 1 Test			
	CRUSHED AGGREGATE BASE COURSE	¾" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR ½" minus Crushed Aggregate (4" Max. Lift) (Current WDOTM4-10 Spec 9-03.9)	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			
7.	EROSION & SEDIMENT CONTROLS	Per Approved Plan	Per Plan and Manufacturers' Instructions		1WK or After Every Rainfall			
8.	TRAFFIC CONTROL	Per Approved Plan	Current Adopted MUTCD/DATSSA		Continuous			
9.	RECORD DRAWINGS	AutoCAD Elect File, Bond Paper, 22" x 34" Min Size	City Checklist		Before Public Improvements Accepted			
10.	ENGINEER'S CERTIFICATION							
Date Last Revised July 2014								

	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

OWNER

DK Holdings, LLC
247 Thain Road, STE 107
Lewiston, Id 83501
208 305 9164

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

SANITARY SEWER	COSD	208-746-9689
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

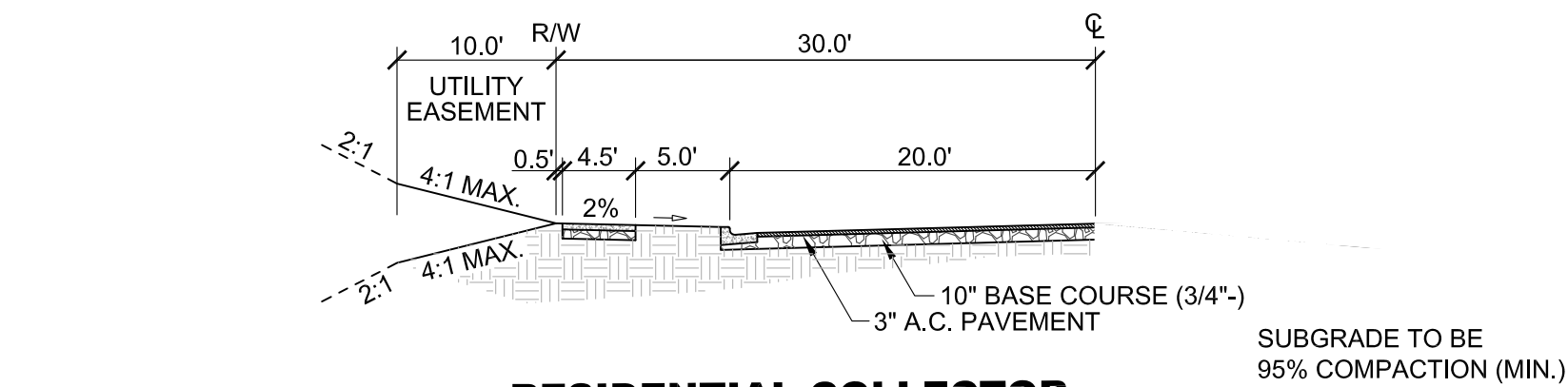


1.	Mobilization	Lump Sum
2.	Project Earthwork	Lump Sum
3.	8" Base Course	6500 Sq. Yds
4.	3" A.C. Pavement	6000 Sq. Yds
5a.	Conc. Rolled Curb	1200 L.F.
5b.	Conc. High Back Curb	1300 L.F.
6.	Catch Basins	7 Each
7.	12" PVC Storm Drain	520 L.F.
8a.	8" PVC Sanitary Sewer	284 L.F.
8b.	12" PVC Sanitary Sewer	89 L.F.
8c.	Sanitary Sewer Services	670 F.T.
9.	4' Dia. San. Sewer MH	34 V.F.
9b.	4' Dia. Storm Sewer MH	15 V.F.
10a.	8" C900 PVC Water Main	580 L.F.
10b.	12" C900 PVC Water Main	435 L.F.
11a.	8" Gate Valves	1 Each
11b.	12" Gate Valves	4 Each
12a.	4.5' Conc. Sidewalk	7800 S.F.
12b.	Pedestrian Ramps	6 Each
12c.	Conc. Driveway Approaches	5 Each
13.	Utilities Tracing	2100 L.F.
14.	Utilities Conduit	Advance
15.	Fire Hydrants	2 Each
16.	Water Services	25 Each
17a.	Stormwater Inlet Aprons	4 Each
17b.	Stormwater Infiltration Trenches	170 L.F.
18.	Stormwater Detention Basin	Lump Sum
18.	Stormwater Management	Lump Sum

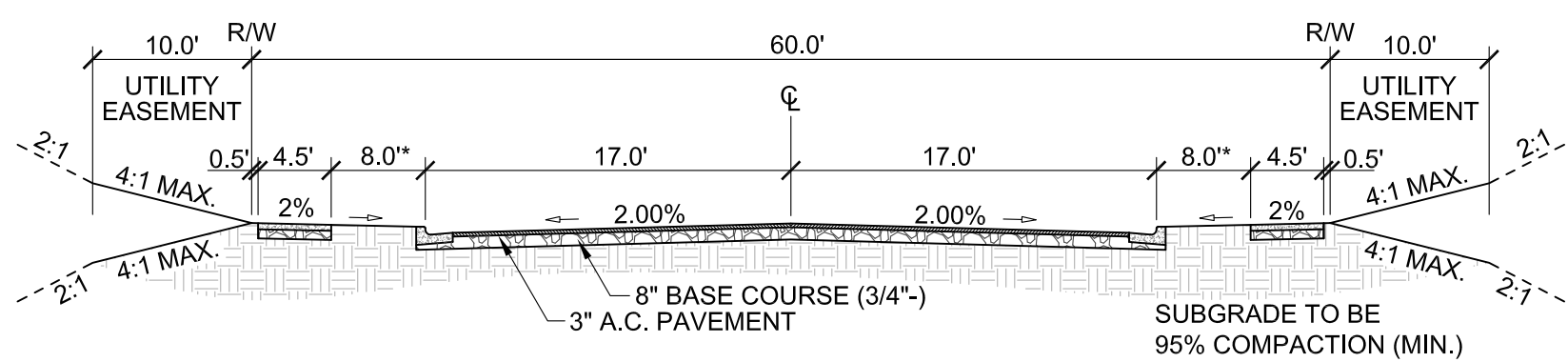
C1	GENERAL NOTES & DETAILS
C2	EXISTING SITE CONDITIONS
C3	CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN
C4	SITE DEVELOPMENT PLAN
C5	SITE PAVING & STORMWATER PLAN
C6	FRANCHISE UTILITIES PLAN
C7	15TH STREET PLAN & PROFILE
C8	WESTVIEW COURT PLAN & PROFILE
C9	WARNER AVENUE CURB PLAN & PROFILE
C10	INTERSECTION DETAILS / ALLEY PLAN & PROFILE

C11	INTERCEPTOR SANITARY SEWER
C12	STORM SEWER PLAN & PROFILE
C13	15TH STREET X-SECTIONS
C14	WESTVIEW COURT X-SECTIONS
C15	ALLEY X-SECTIONS
C16	STANDARD DRAWINGS
C17	" "
C18	" "
C19	" "
C20	" "

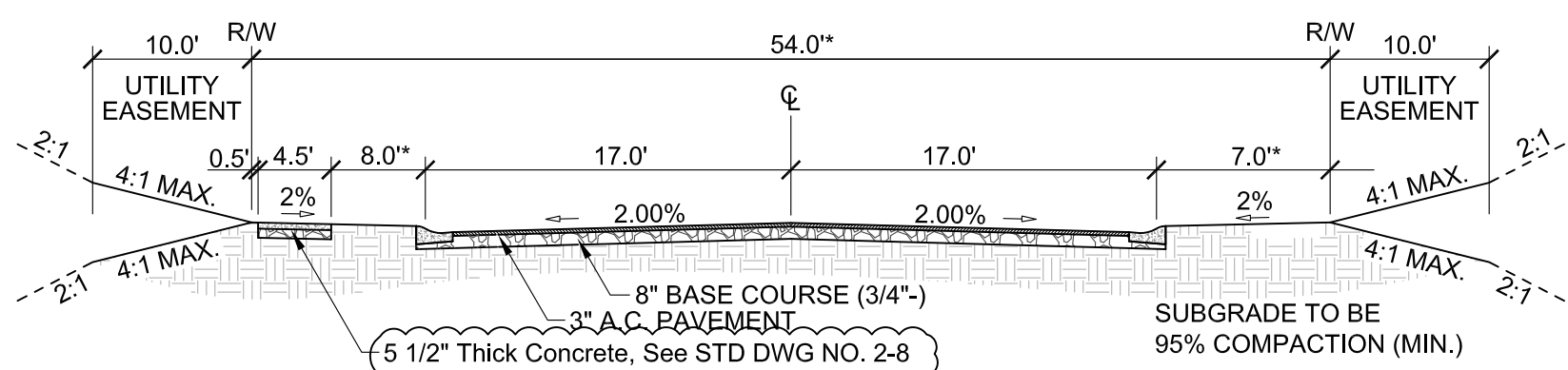
		NORTHEAST CROSSING ADDITION PHASE I/PROJECT I DK HOLDINGS, LLC LEWISTON, IDAHO		2015-07-20 BID/CONSTRUCTION SET	
SHEET		HAMMOND ENGINEERING & DEVELOPMENT CO. 520 BRYDEN PARK LEWISTON, IDAHO 83501 (208) 798-5422		C0	
SCALE	SHEET SIZE	REVISION	REVIEW	DATE	DESCRIPTION
DRAWN BY MEE	CHECKED BY USH			04-23-15	Revised as per City Review Comments dated 04-16-15
DATE 03-19-15	JOB # 1432				
SHEET	C0				
DRAWING # 1432-C0					
PROFESSIONAL ENGINEER LAND SURVEYOR REGISTERED #2102 DAVID SHAW STATE OF IDAHO 4/23/15					
CHECKED APPD.					



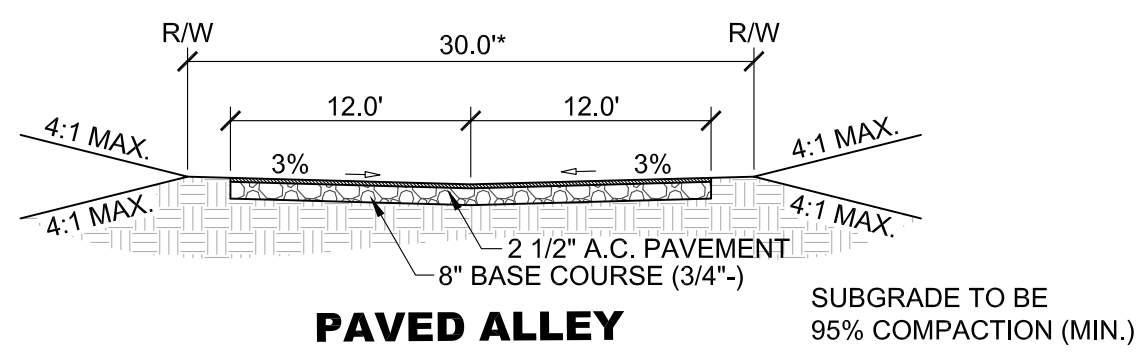
RESIDENTIAL COLLECTOR
STD. DWG. NO. 3-9
(WARNER AVENUE)



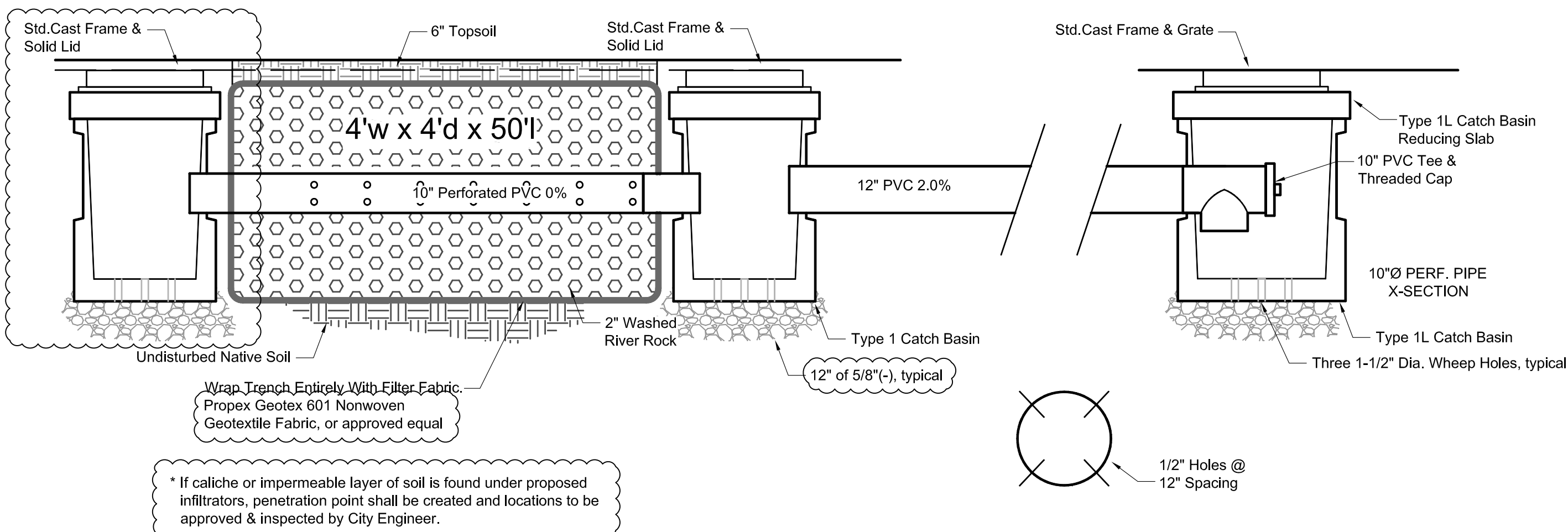
LOCAL RESIDENTIAL STREET
*MODIFIED STD. DWG. NO. 3-3
(15TH STREET)



LOCAL CUL-DE-SAC STREET
*MODIFIED STD DWG 3-5
(WESTVIEW COURT)

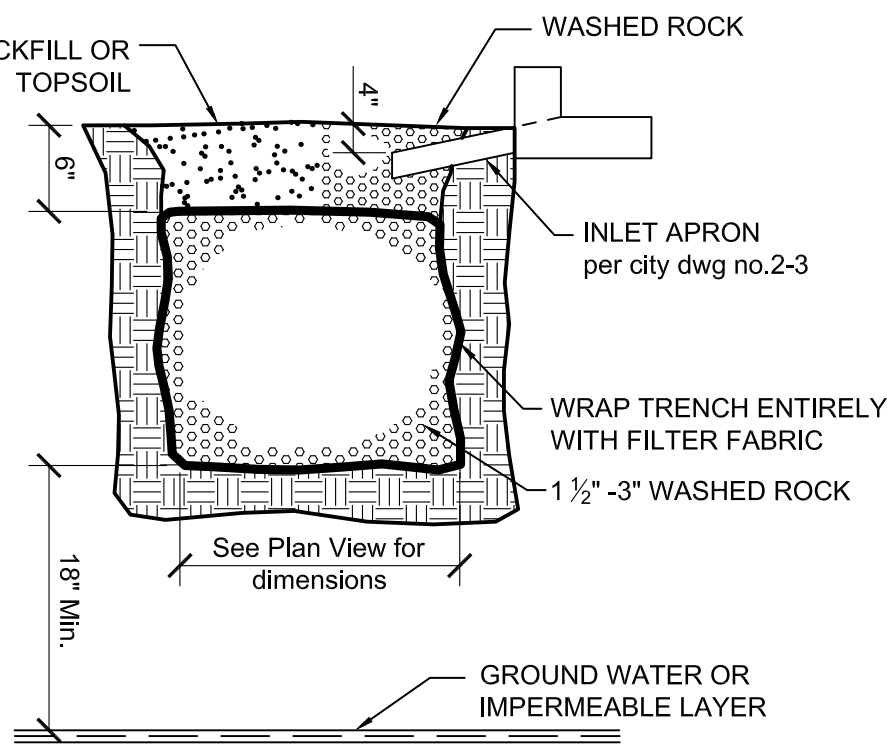
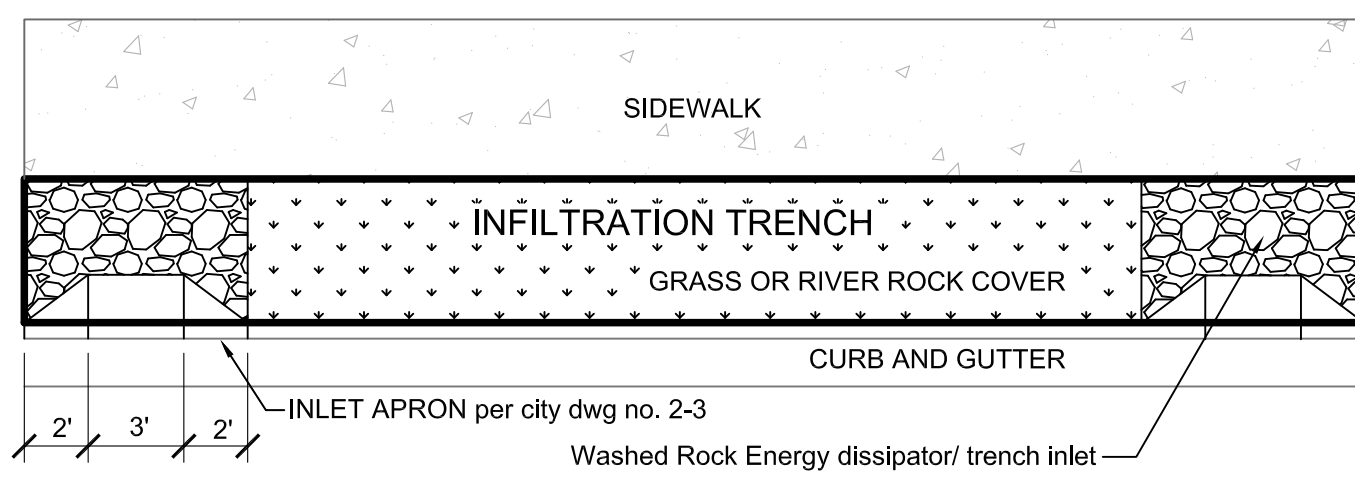


PAVED ALLEY
*MODIFIED STD DWG 3-10
(ALLEY)



ALLEY STORMWATER INFILTRATION TRENCH SYSTEM

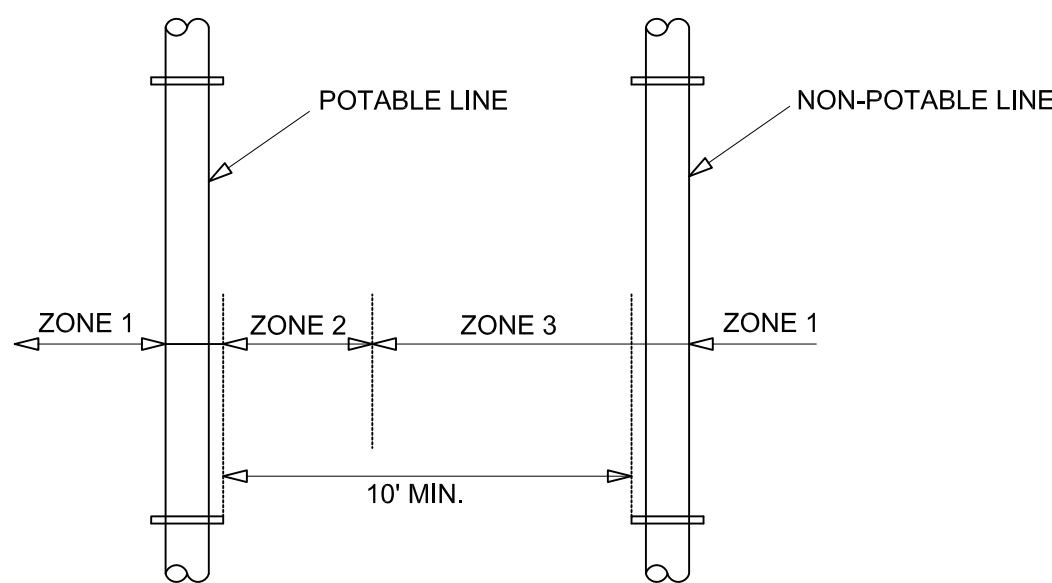
SECTION A
NTS 1432-C10



TYPICAL INFILTRATION TRENCH DETAIL

SECTION B
NTS 1432-C5

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.

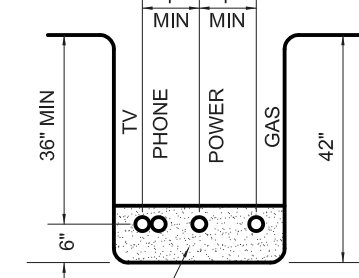
Zone 3: (CLOSER THAN 6 FEET APART)

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

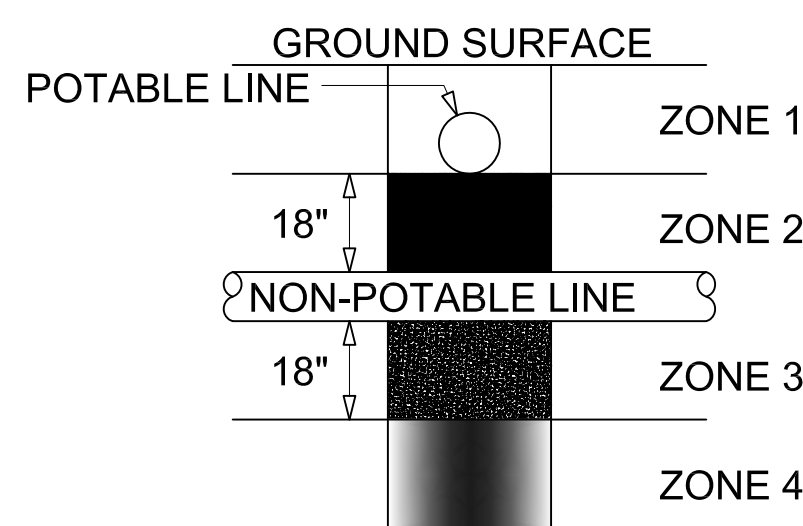
NOTES:

- ALL EARTHWORK SHALL BE COMPACTED TO 95% OF AASHTO T-99 PROCTOR VALUE.
- ALL POTABLE WATER LINES RUNNING FROM MAIN TO METERS WILL BE 1" AND METERS WILL BE 3/4" 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 WORK DONE WITHIN CITY RIGHT OF WAY TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.
- WATER MAIN PIPING, VALVES, FIRE HYDRANTS AND WATER METERS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH L.O.I.D. STANDARDS.
- SANITARY SEWER PIPING AND MANHOLES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH C.O.S.D. STANDARDS.
- VIDEO INSPECTION OF WASTEWATER MAINS REQUIRED; SEE PUBLIC WORKS POLICY # 2012-2
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UNDERGROUND UTILITIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES AT NO ADDITIONAL COST TO THE OWNER. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE APPROXIMATE AND BASED ON EXISTING RECORDS AND FIELD SURVEYS. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT THE CONTRACTOR SHALL CALL 811 "CALL BEFORE YOU DIG" FOR UTILITY FIELD LOCATIONS PRIOR TO COMMENCING EXCAVATION ON SITE. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RELEVANT UTILITY COMPANIES
- SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS AND INTERSECTIONS SHALL BE MAINTAINED.
- ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARDS AND C.O.S.D. & L.O.I.D. STANDARD DRAWINGS & TECHNICAL SPECS.
- A SWPPP & NOI IS REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL REFERENCE THE STORMWATER POLLUTION PREVENTION MANUAL (SWPPP) FOR ALL EROSION CONTROL PROCEDURES ON SITE.

FRANCHISE UTILITIES TRENCH DETAIL



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 58.1.08.542.07: Idaho Rules for Public Drinking Water Systems and IDAPA 58.01.16.430.0 Idaho Wastewater Rules.

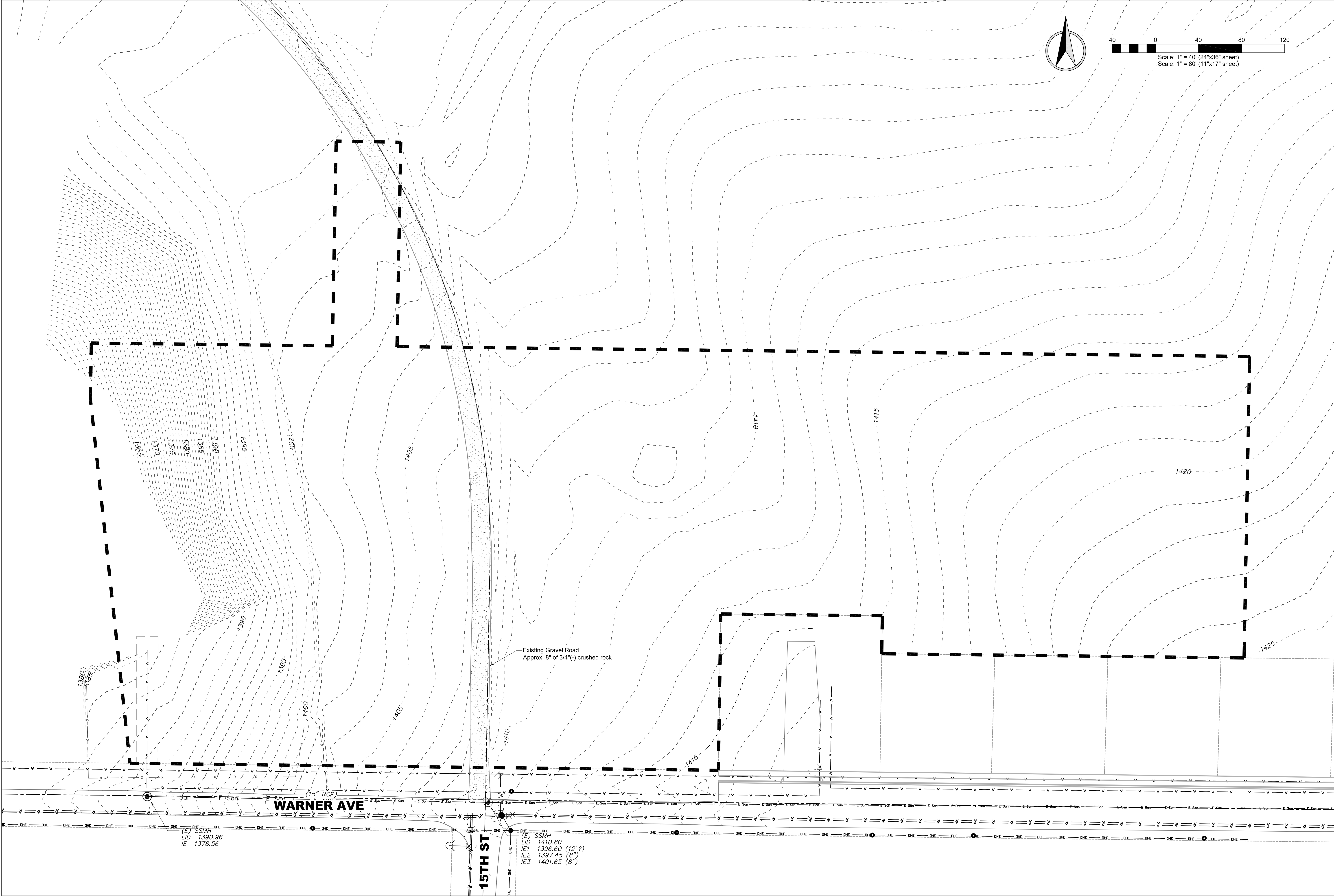
REVISION	DATE	DESCRIPTION	CHECKED	APPROVED
A	03-30-15	Revised IDAPA Note Reference #		
B	04-22-15	Revised as per City Review Comments dated 04-16-15		

SCALE	SHEET SIZE	DRAWN BY	CHECKED BY	DATE	SHEET	DRAWING #
	D	MEE	USH	JUN 1432	C1	1432-C1

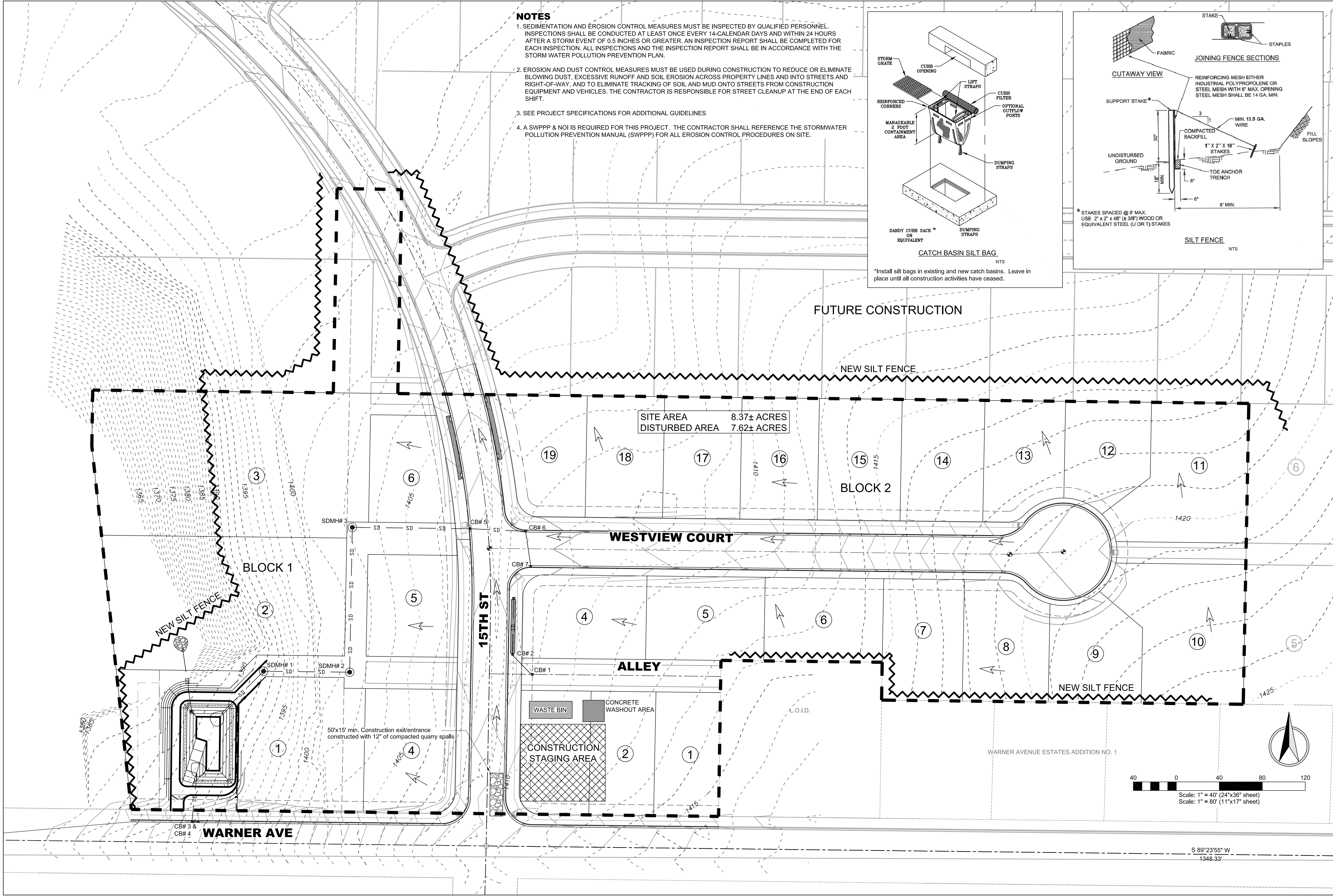
NORTHEAST CROSSING ADDITION
PHASE I/PROJECT 1
GENERAL NOTES & DETAILS
DK HOLDINGS, LLC
LEWISTON, IDAHO

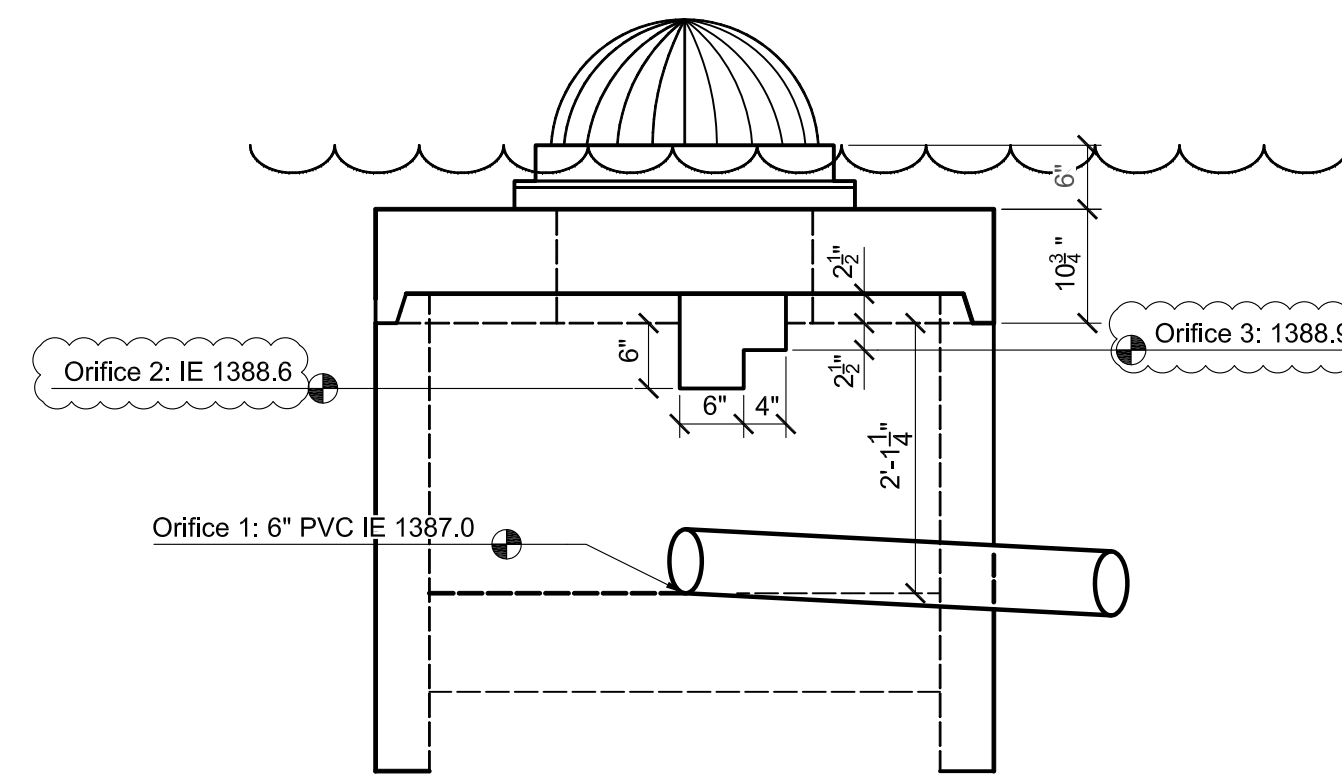
HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET **C1**



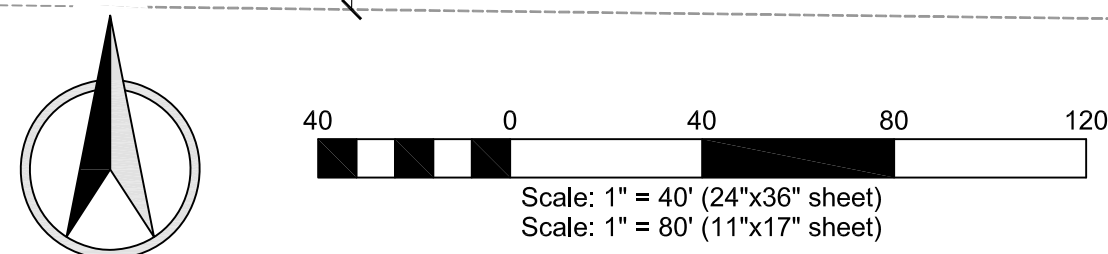
SHEET		C2		HAMMOND ENGINEERING & DEVELOPMENT CO. 528 BRYDEN AVENUE, SALT LAKE CITY, UTAH 84101 (801) 755-5422				NORTHEAST CROSSING ADDITION PHASE I/PROJECT I EXISTING SITE PLAN DK HOLDINGS, LLC LEWISTON, IDAHO															
SCALE: 1"=40'		DRAWN BY: MEE		JOB # 03-19-15		DATE 03-19-15		SHEET C2		DRAWING # 1432-C2		SHEET SIZE 11" X 17"		CHECKED BY: JSH		DATE 04-23-15		REV. DATE		REVISION DESCRIPTION		APPROD.	



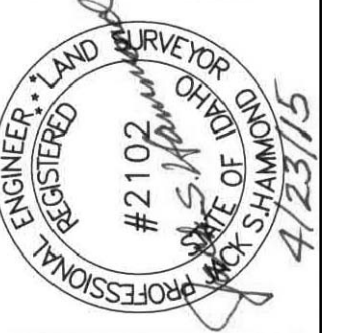


DETAIL A
NO SCALE 1432-C5

NOTE: Pond floor & slopes to be covered with 6" of Topsoil



REV/ LTR	DATE	REVISION DESCRIPTION	CHECKED	APPRO.
A	10-24-15	Revised Detention Point Outflow Offices		
B	04-23-15	Revised as per City Review Comments dated 04-16-15		



SCALE 1"=40'	SHEET SIZE D
DRAWN BY MEE	CHECKED BY JSH
DATE 03-09-15	JOB # 1432
SHEET C5	
DRAWING # 1432-C5	

**NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
SITE PAVING & STORMWATER PLAN
DK HOLDINGS, LLC
LEWISTON, IDAHO**



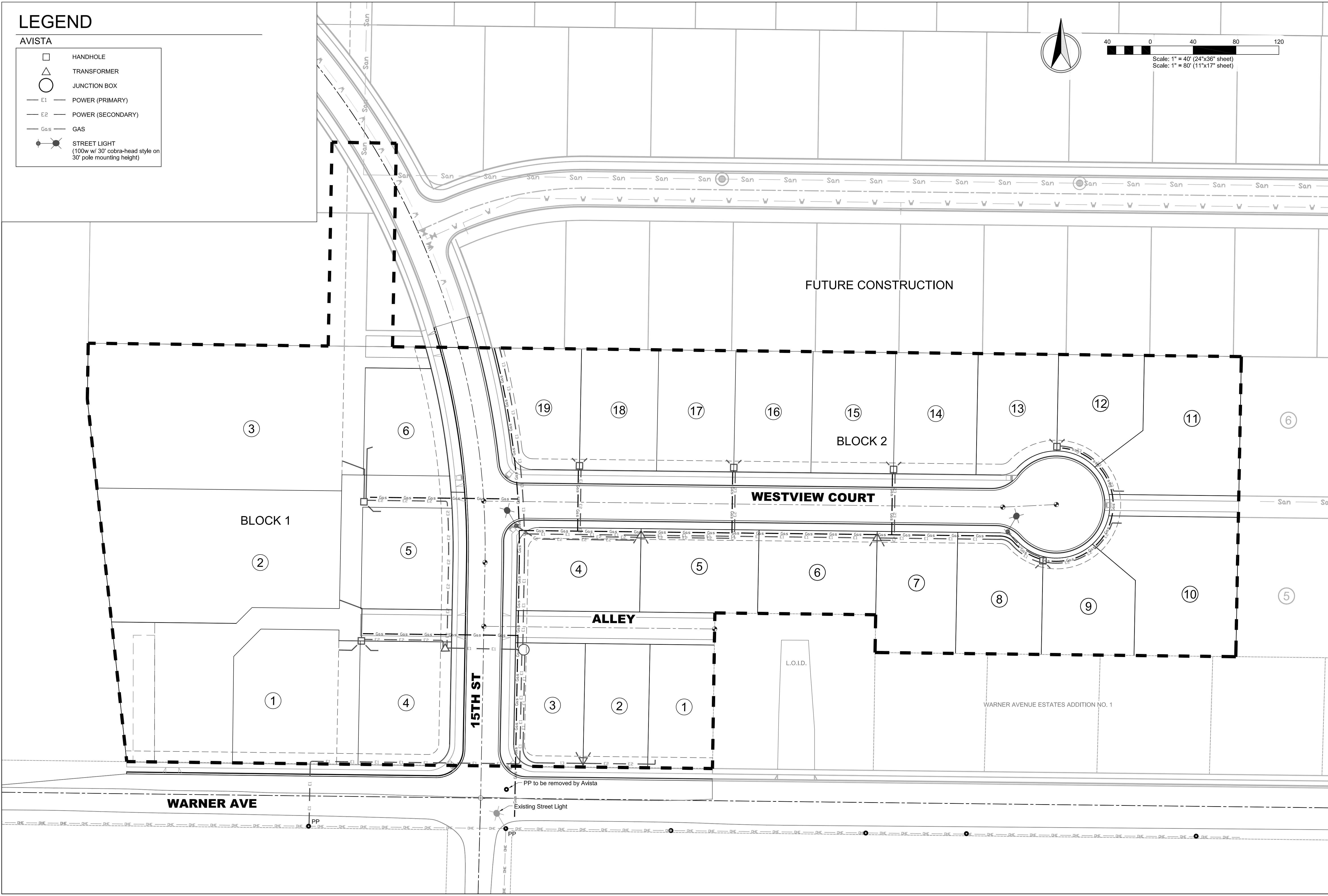
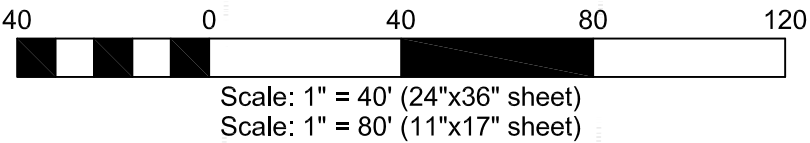
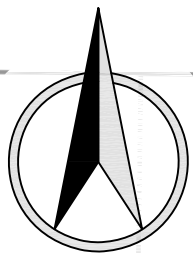
HAMMOND ENGINEERING & DEVELOPMENT CO.
5228 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 798-5422

SHEET

C5

LEGEND

- AVISTA
- HANDHOLE
 - TRANSFORMER
 - JUNCTION BOX
 - E1 POWER (PRIMARY)
 - E2 POWER (SECONDARY)
 - GAS
 - STREET LIGHT
(100w w/ 30' cobra-head style on 30' pole mounting height)

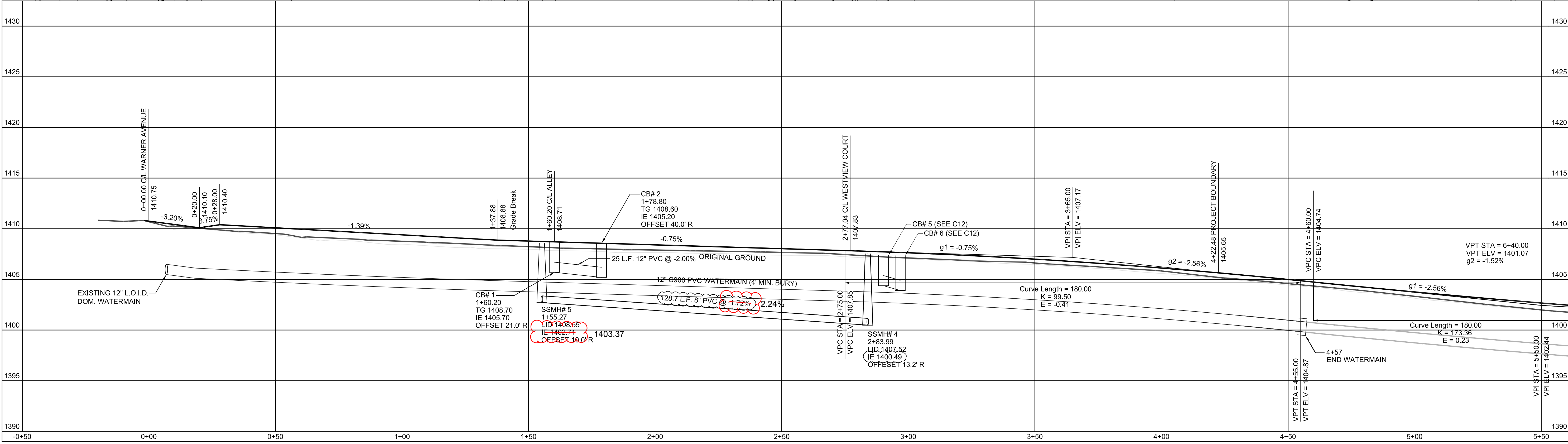
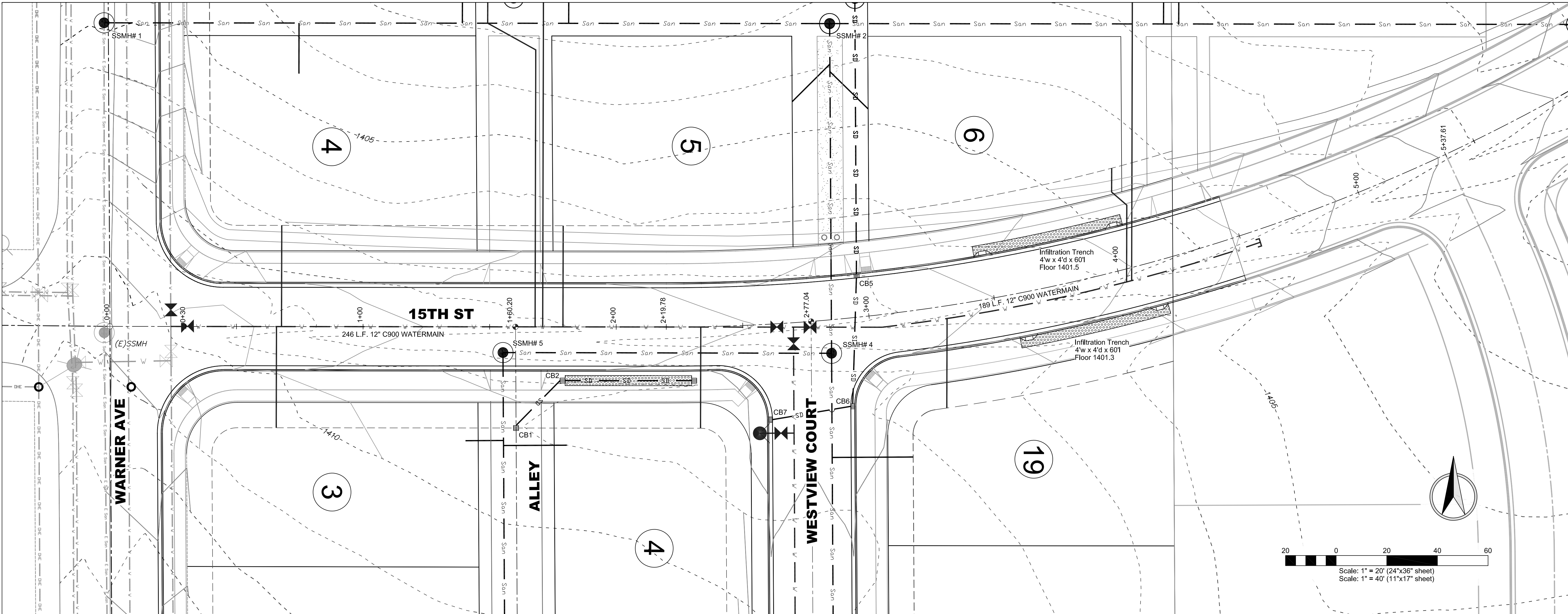


REVISION		DESCRIPTION		CHECKED		APPROVED	
REV	DATE	DESCRIPTION	DESCRIPTION	DATE	DATE	DATE	DATE
1	04-22-15	Revised as per City Review Comments dated 04-16-15					
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NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
FRANCHISE UTILITY PLAN
DK HOLDINGS, LLC
LEWISTON, IDAHO

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

SHEET
C6



REVISION

REV	DATE	DESCRIPTION
A	04-15-15	"Option B", revised Sanitary Sewer Inverts
B	04-22-15	Revised as per City Review Comments dated 04-16-15

ENGINEER

REGISTERED PROFESSIONAL ENGINEER

#2102

DAVID S. SHAW

4/23/15

SCALE

1"=20'

DRAWN BY

MEE

CHECKED BY

JSH

DATE

03-19-15

JOB

1432

SHEET

C7

DRAWING #

1432-C7

NORTHEAST CROSSING ADDITION

PHASE I/PROJECT I

15TH STREET PLAN & PROFILE

DK HOLDINGS, LLC

LEWISTON, IDAHO

HEDCO

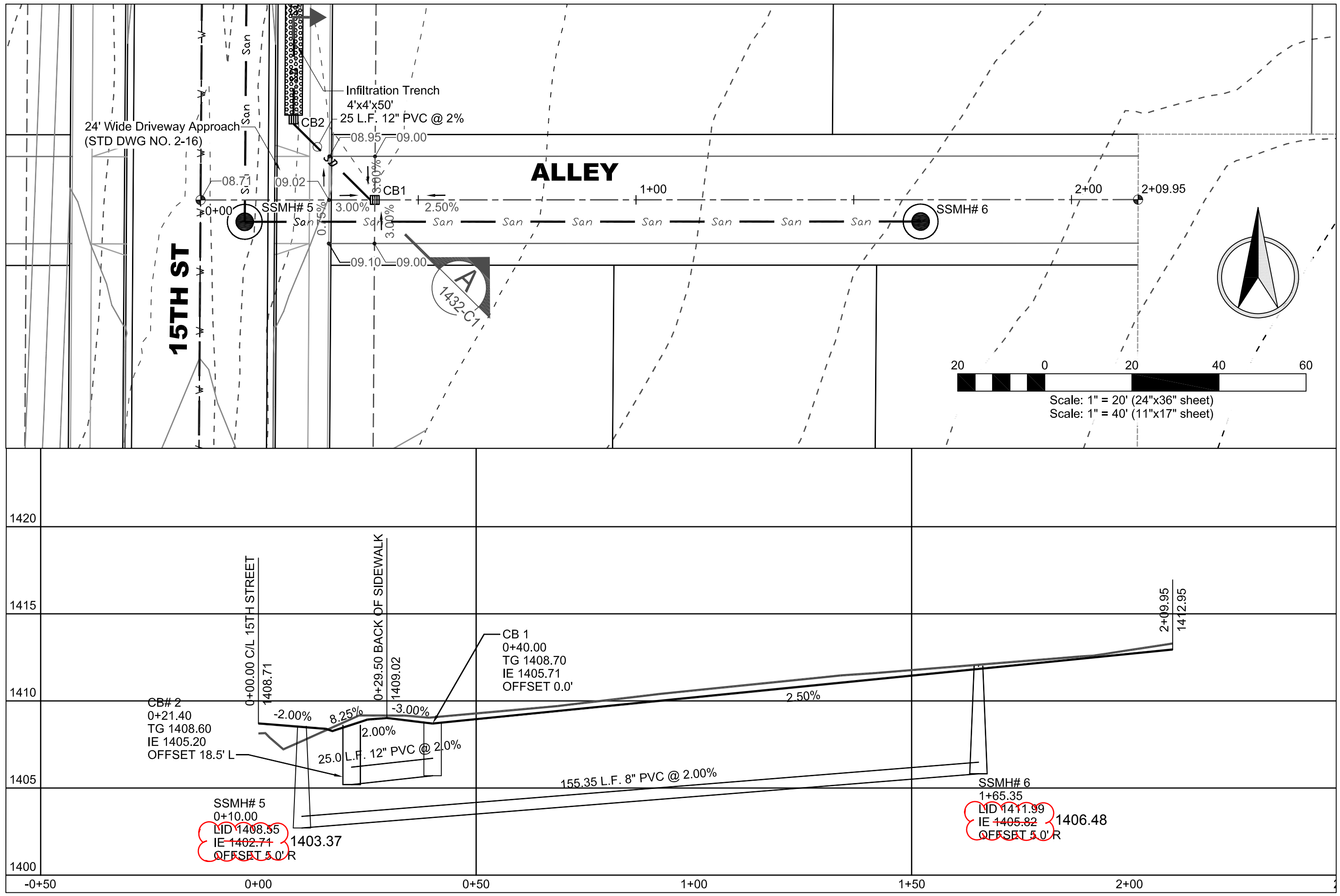
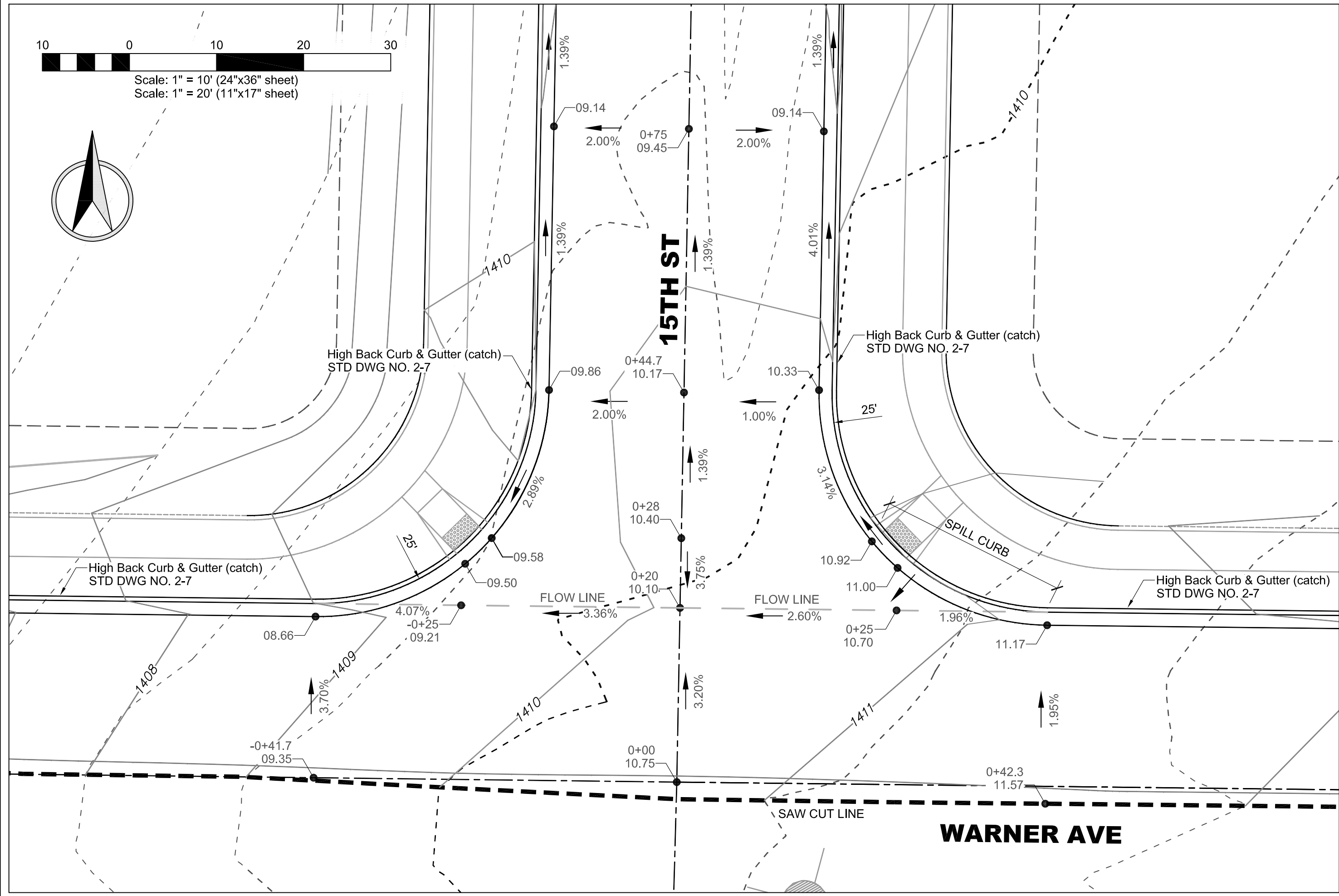
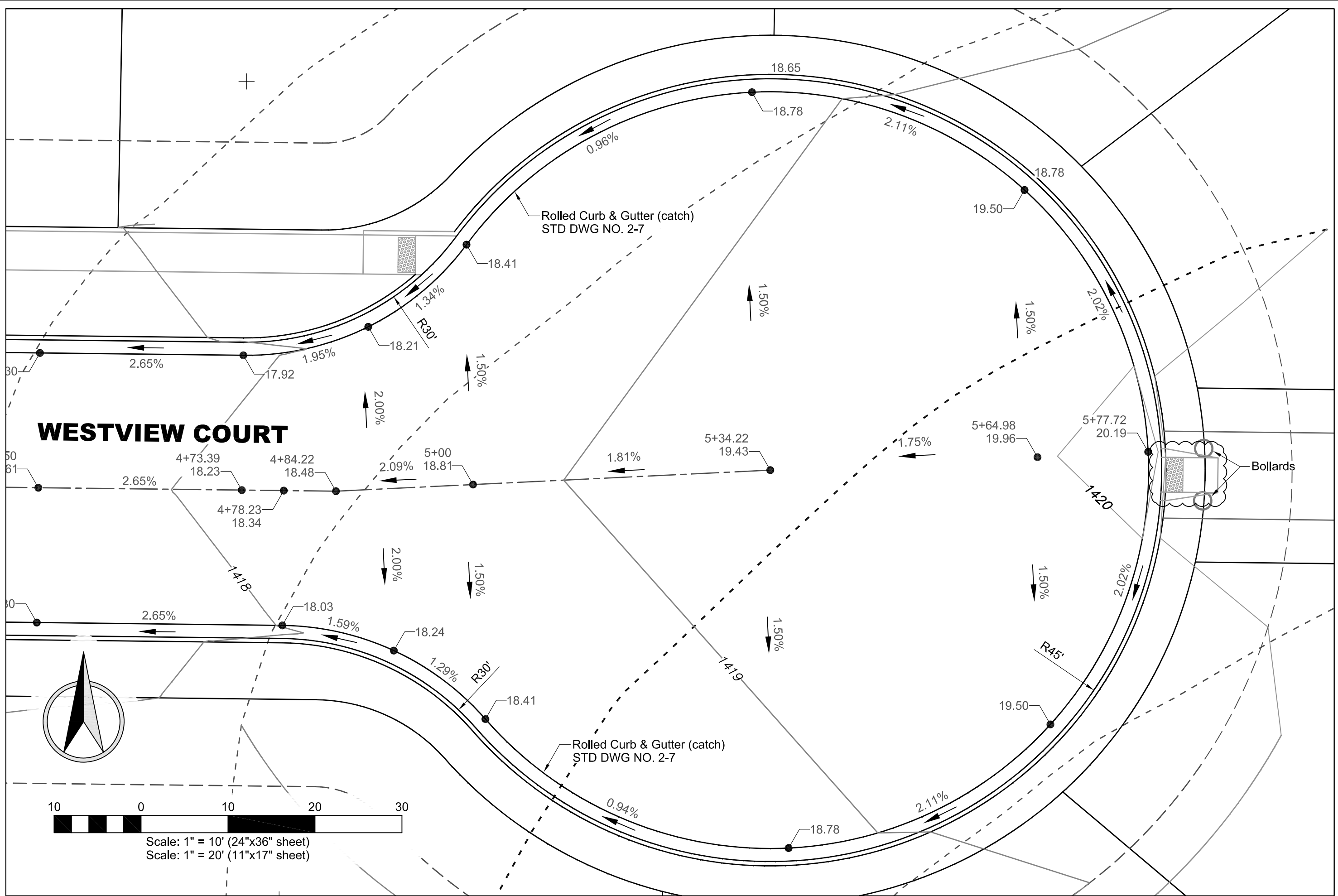
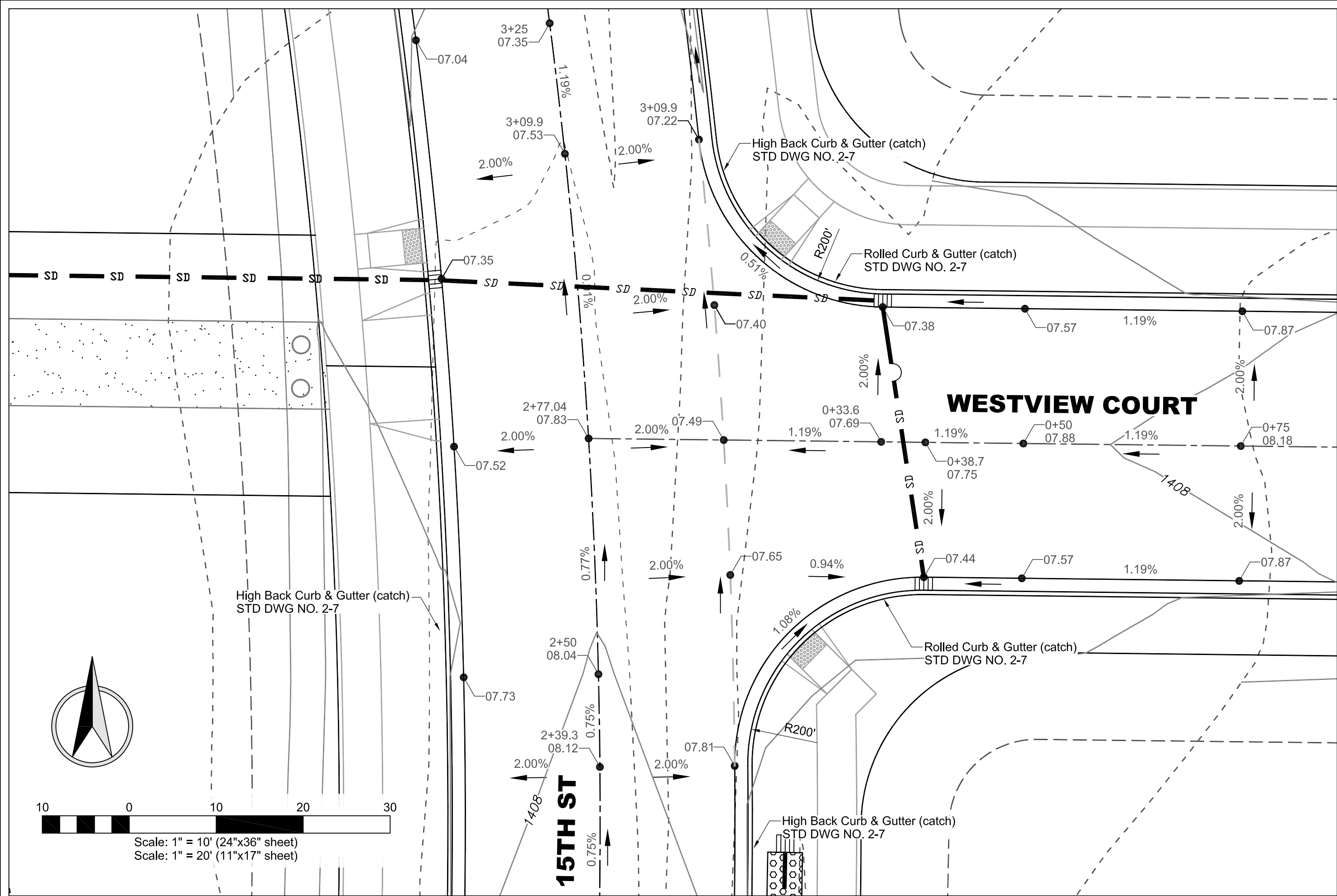
HAMMOND ENGINEERING & DEVELOPMENT CO.

528 BRYDEN AVENUE LEWISTON, IDAHO 83501

(208) 750-5422

SHEET

C7



REVISION		DATE	DESCRIPTION	CHECKED	APPROVED
REV	LTR				
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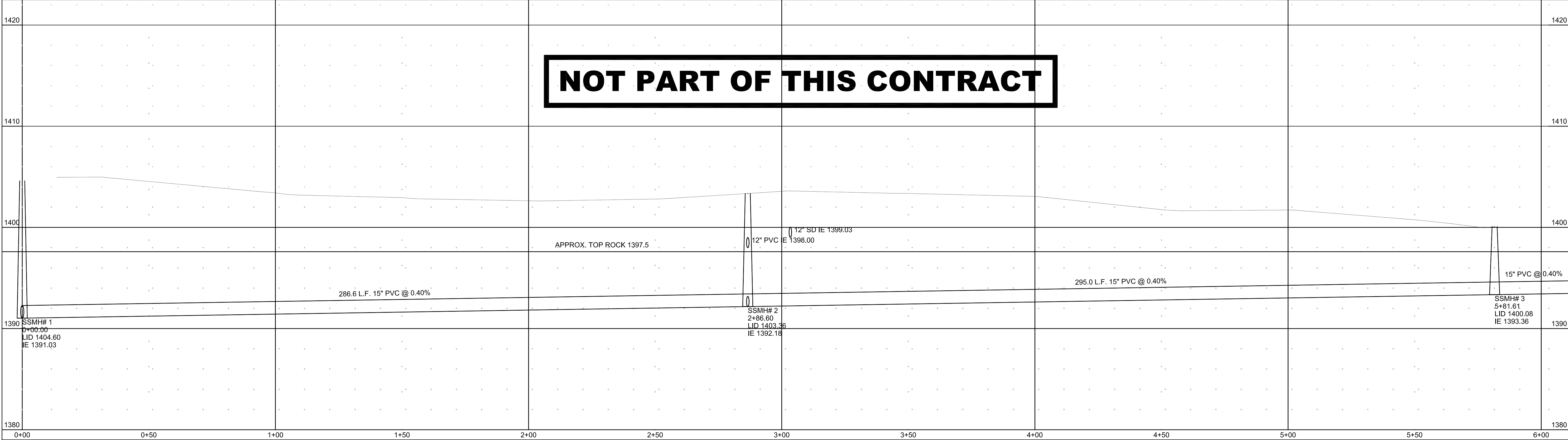
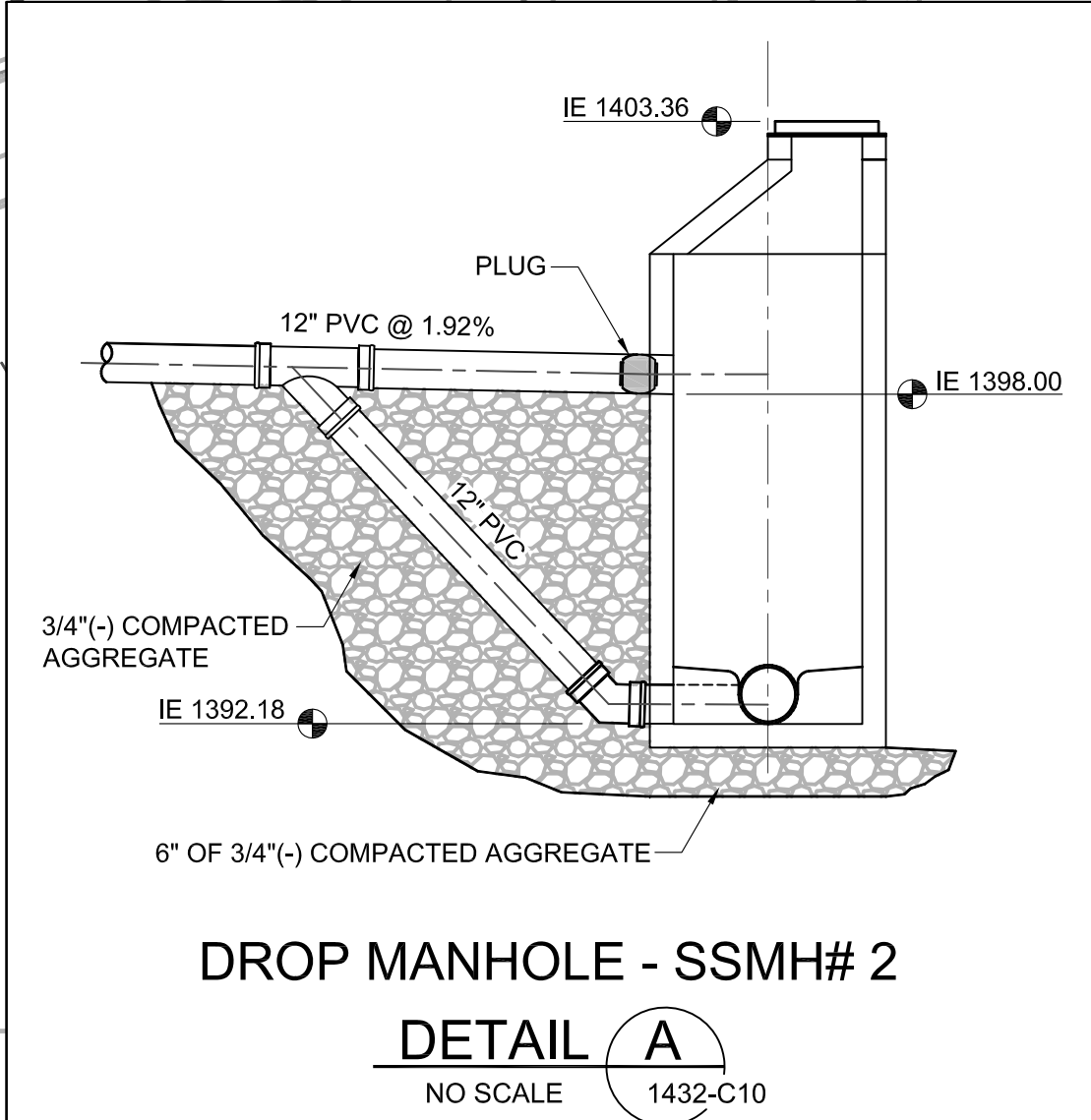
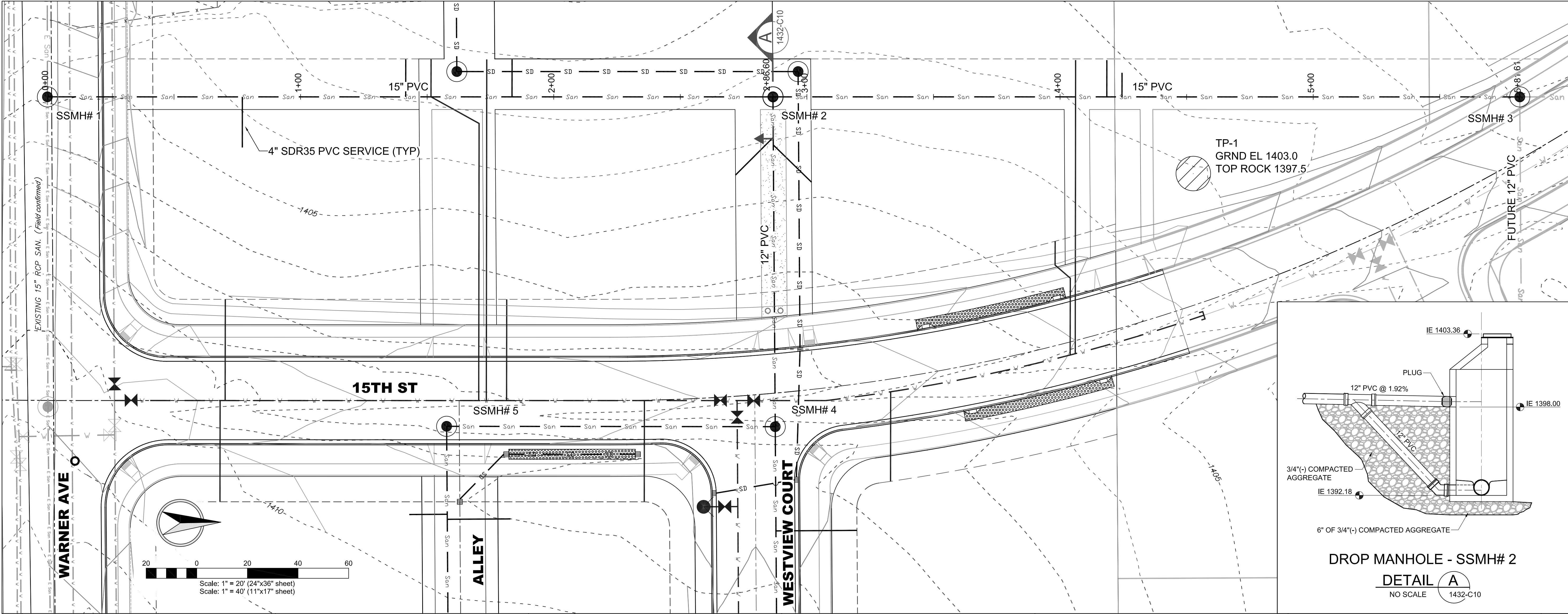
ENGINEER	LAND SURVEYOR
REGISTERED	REGISTERED
#2102	#2102
NAME OF SHAW	NAME OF SHAW
4/23/15	4/23/15

SHEET SIZE	D
SCALE AS SHOWN	
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-19-15
JOB	1432
SHEET	C10
DRAWING #	1432-C10

NORTHEAST CROSSING ADDITION - PH I/PROJECT I	
INTERSECTION DETAILS/	
ALLEY PLAN & PROFILE	
DK HOLDINGS, LLC	
LEWISTON, IDAHO	

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

SHEET	C10
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REVISION		DATE	DESCRIPTION	CHECKED	APPROVED
A	03-06-15		Future Pipe size shown		
B	03-15-15		Revised Inverts & Grade due to Existing Pipe @ SSMH# 1 being higher		
C	04-22-15		Man Assumed		
			Revised as per City Review Comments dated 04-16-15		

ENGINEER	LAND SURVEYOR
REGISTERED	REGISTERED
#2102	#47315
DAVID M. SHAW	DAVID M. SHAW

SCALE	SHEET SIZE	D	CHECKED BY	DATE	DATE	DATE	DATE	DATE	DATE
1"=20'	11"x17"	1432	JSH	03-19-15	03-19-15	03-19-15	03-19-15	03-19-15	03-19-15

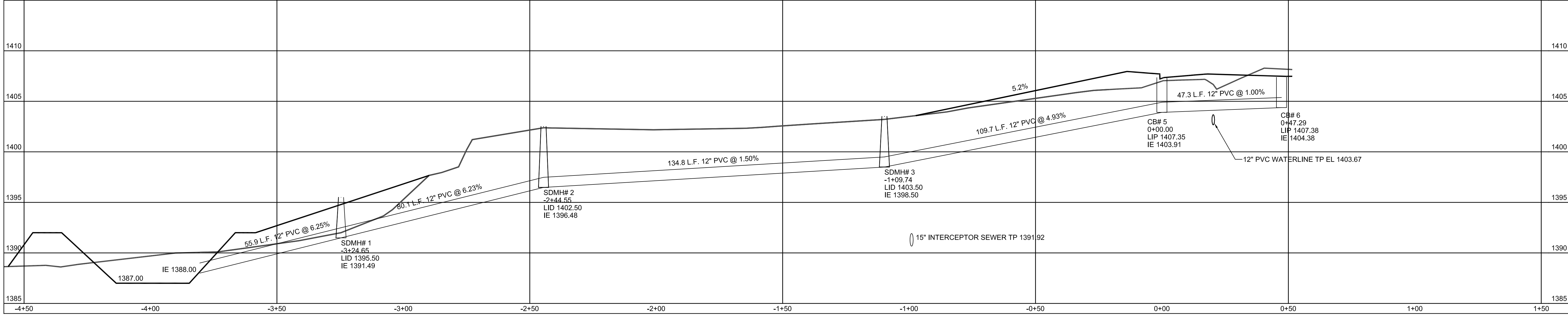
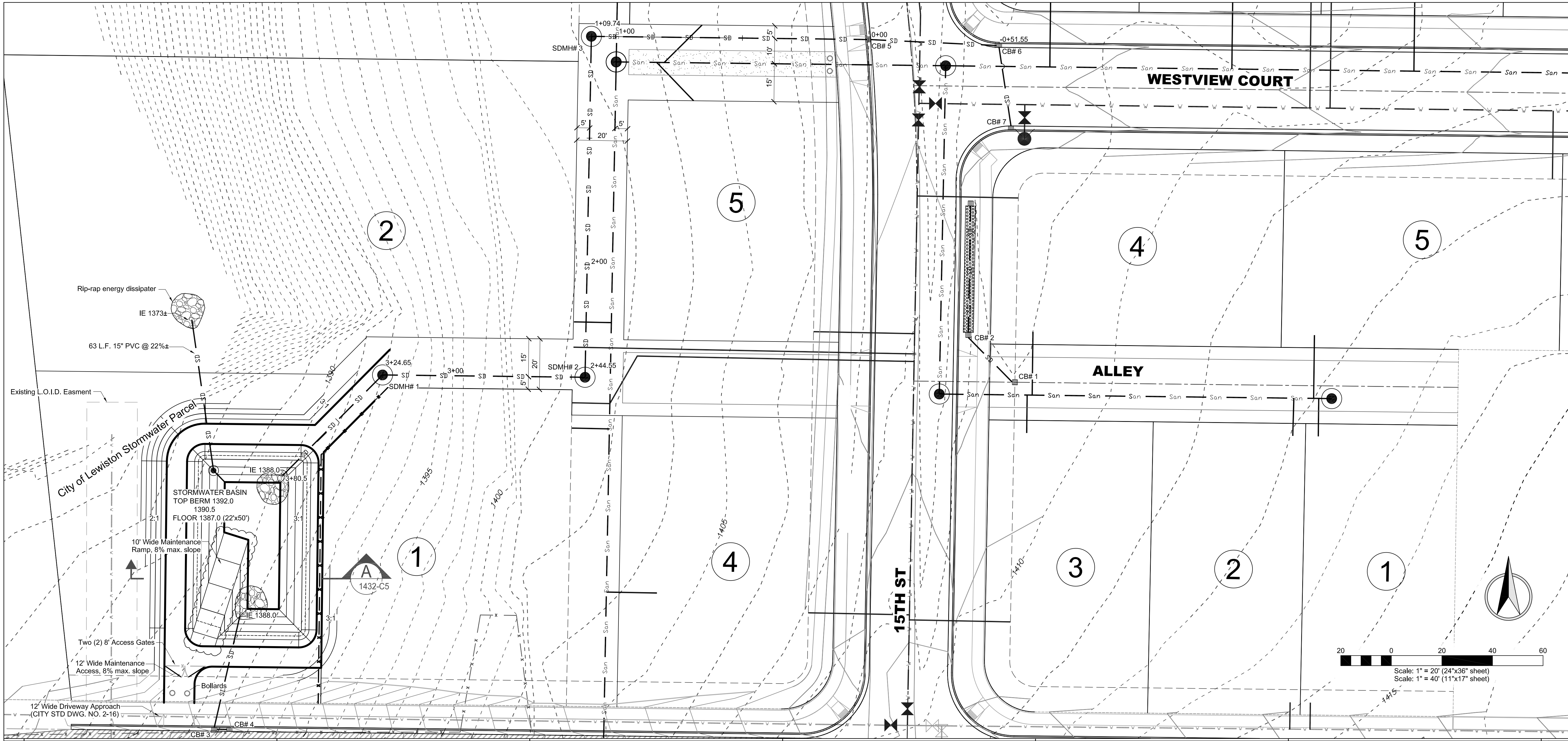
DRAWING #	1432-C11
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NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
INTERCEPTOR SANITARY SEWER PLAN & PROFILE
DK HOLDINGS, LLC
LEWISTON, IDAHO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 730-5422

SHEET

C11



REV	DATE	DESCRIPTION	CHECKED	APPROVED
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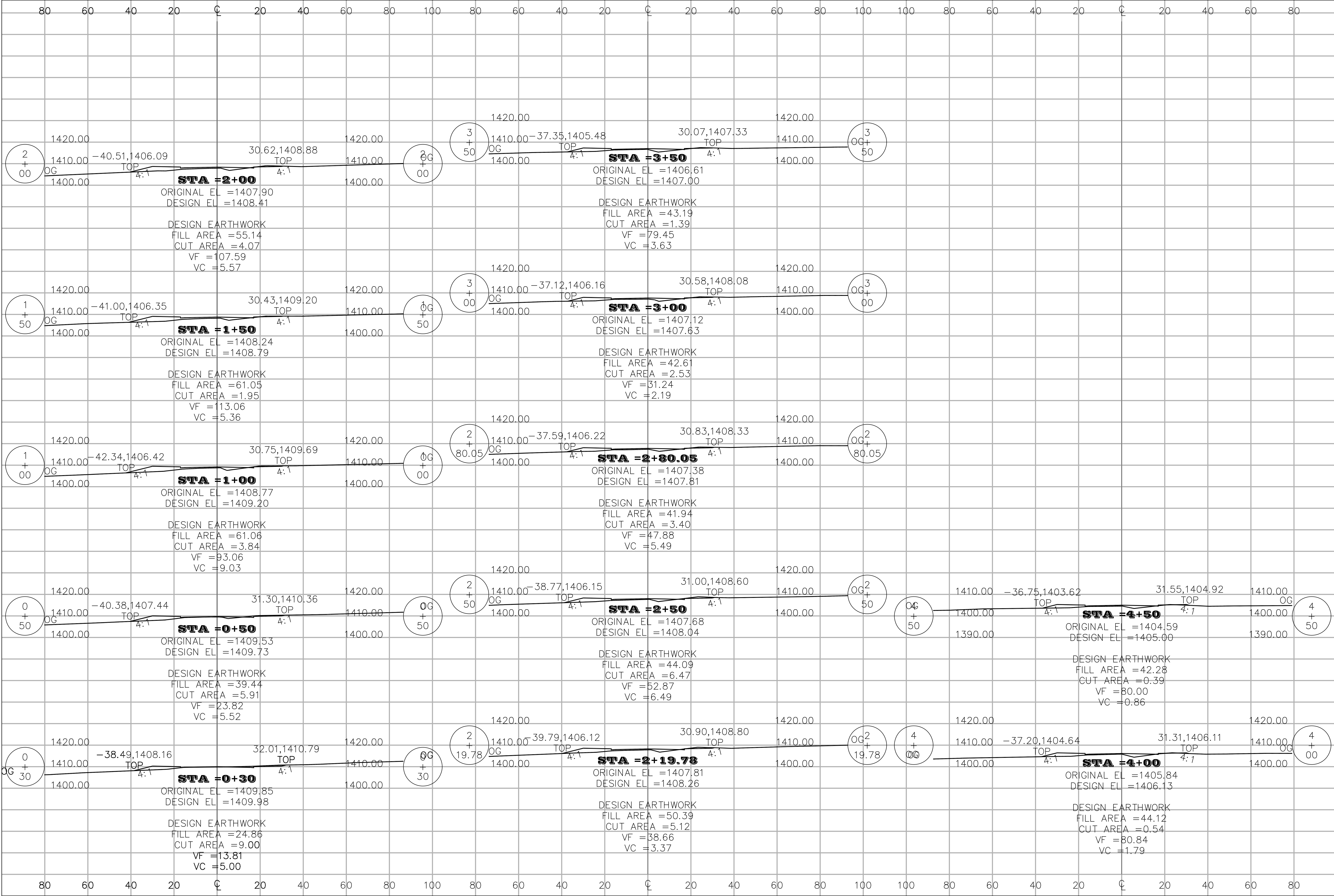
REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
#2102
DAVID S. SHAW
STATE OF IDAHO
4/23/15

SCALE	SHEET SIZE	DRAWN BY	CHECKED BY	DATE	SHEET	DRAWING #
1"=20'	D	MEC	JSH	03-19-15	1432	1432-C12

**NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
STORM LINE PLAN & PROFILE
DK HOLDINGS, LLC
LEWISTON, IDAHO**

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 780-5422

SHEET **C12**



REVISION

DESCRIPTION

CHECKED

APPROVED

REV

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

ENGINEER

REGISTERED

PROFESSIONAL

STATE OF IDAHO

4/23/15

SCALE

SHEET SIZE

D

CHECKED BY

MEE

DATE

03-19-15

SHEET

C13

DRAWING #

1432-C13

NORTHEAST CROSSING ADDITION

PHASE I/PROJECT I

15TH STREET X-SECTIONS

DK HOLDINGS, LLC

LEWISTON, IDAHO

HEDCO

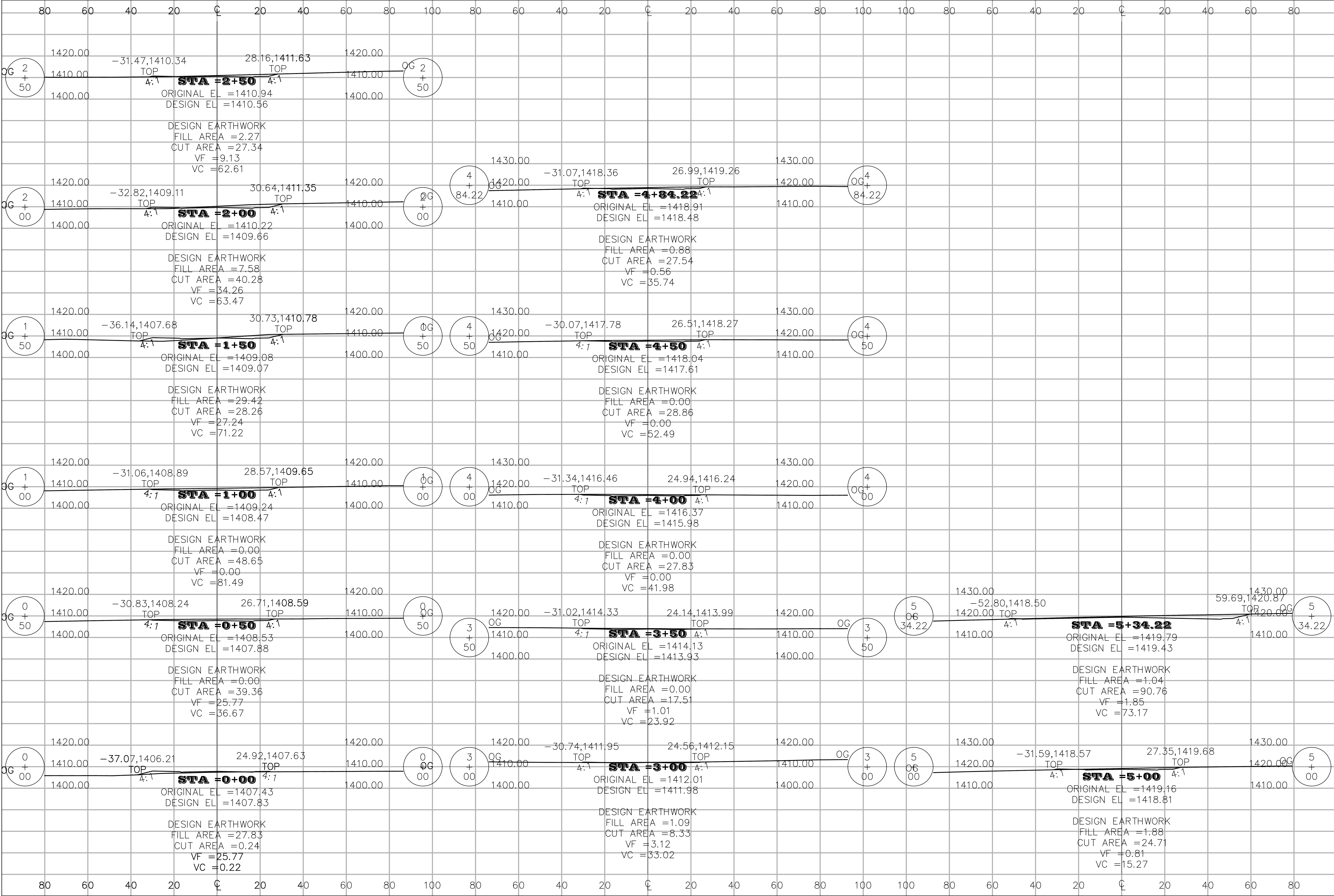
HAMMOND ENGINEERING & DEVELOPMENT CO.

528 BRYDEN AVENUE LEWISTON, IDAHO 83501

(208) 750-5422

SHEET

C13



REVISION		CHECKED	APPR.
DESCRIPTION			
REV	DATE		
LTR			

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
#2102
DATE OF EXPIRATION
4/23/15

DATE OF EXPIRATION
4/23/15

SCALE	SHEET SIZE	D
DRAWN BY MEE	CHECKED BY JSH	
DATE 03-19-15	JOB # 1432	
SHEET C14	DRAWING # 1432-C14	

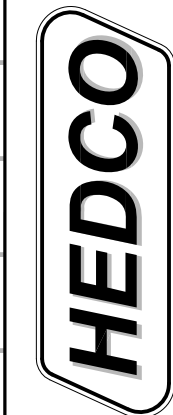
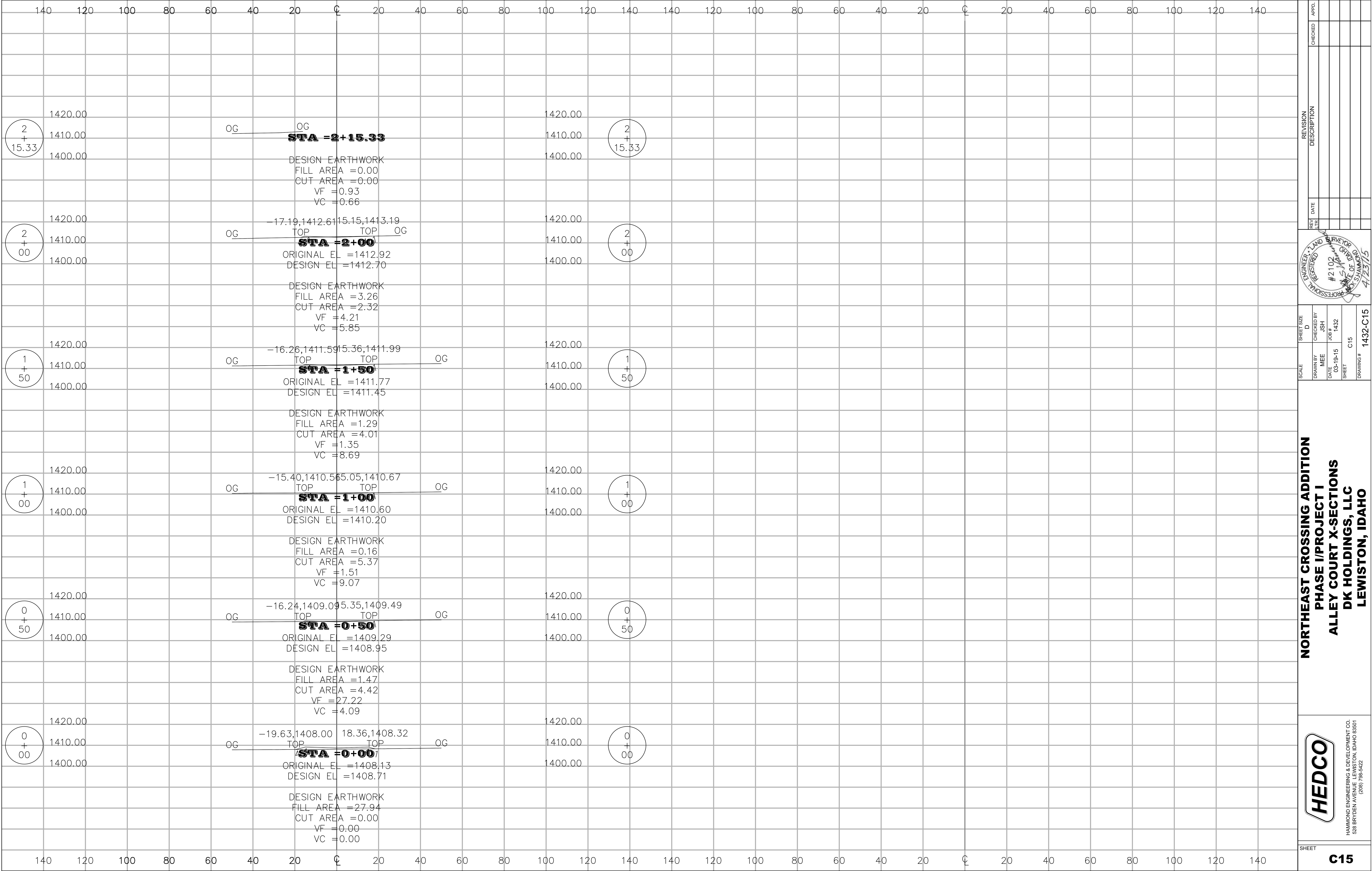
NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
WESTVIEW COURT X-SECTIONS
DK HOLDINGS, LLC
LEWISTON, IDAHO

HEDCO

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

SHEET

C14



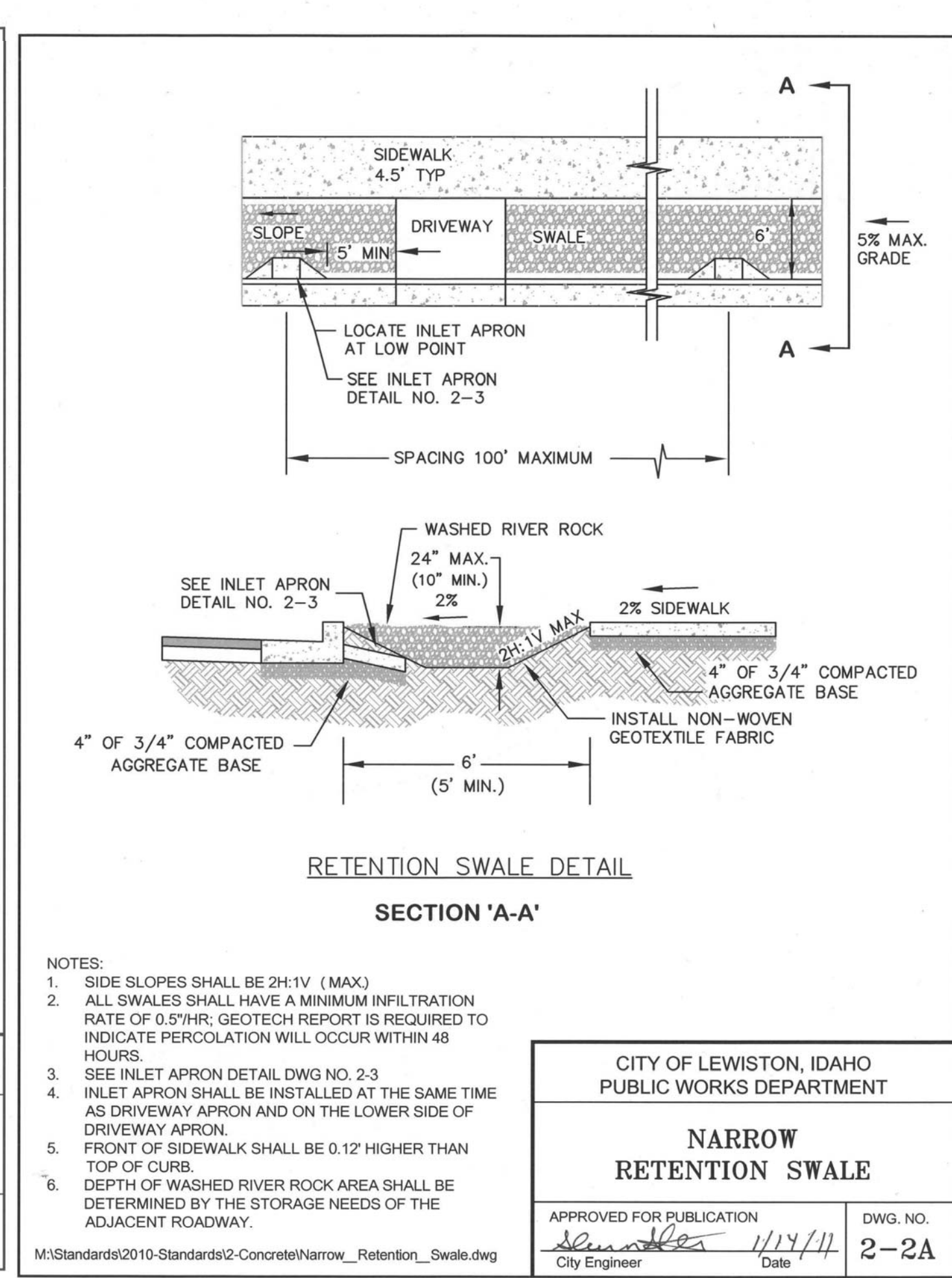
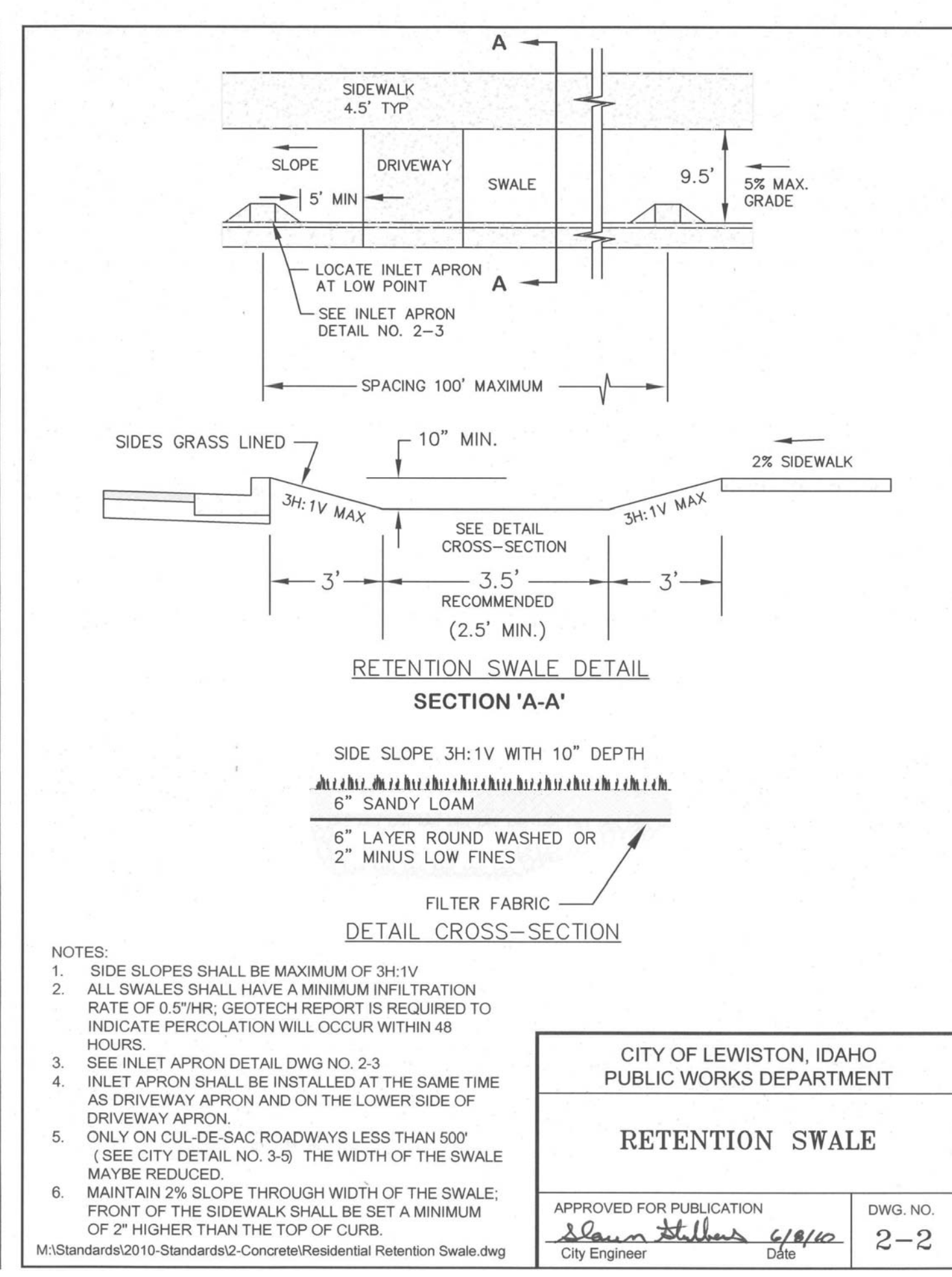
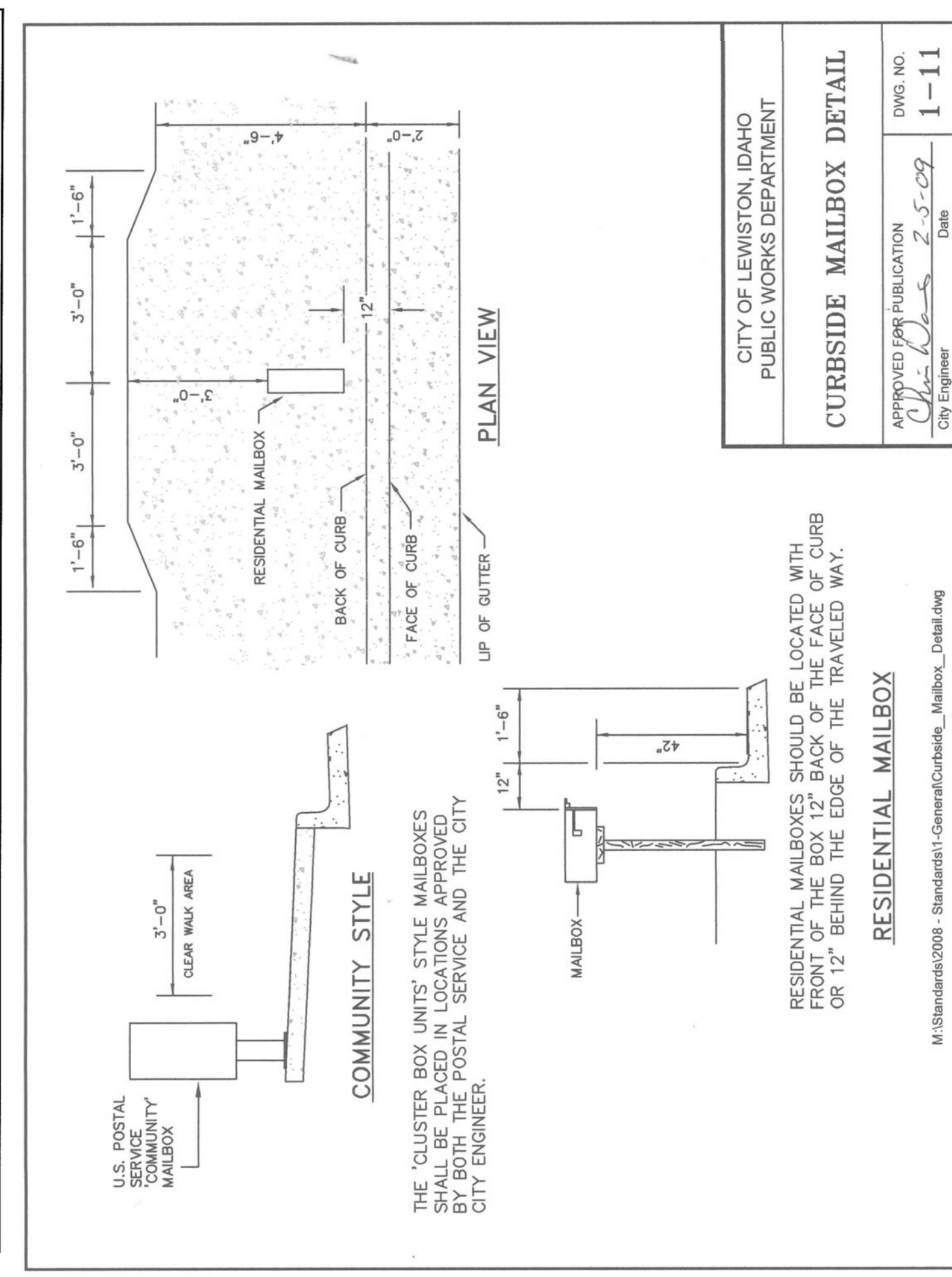
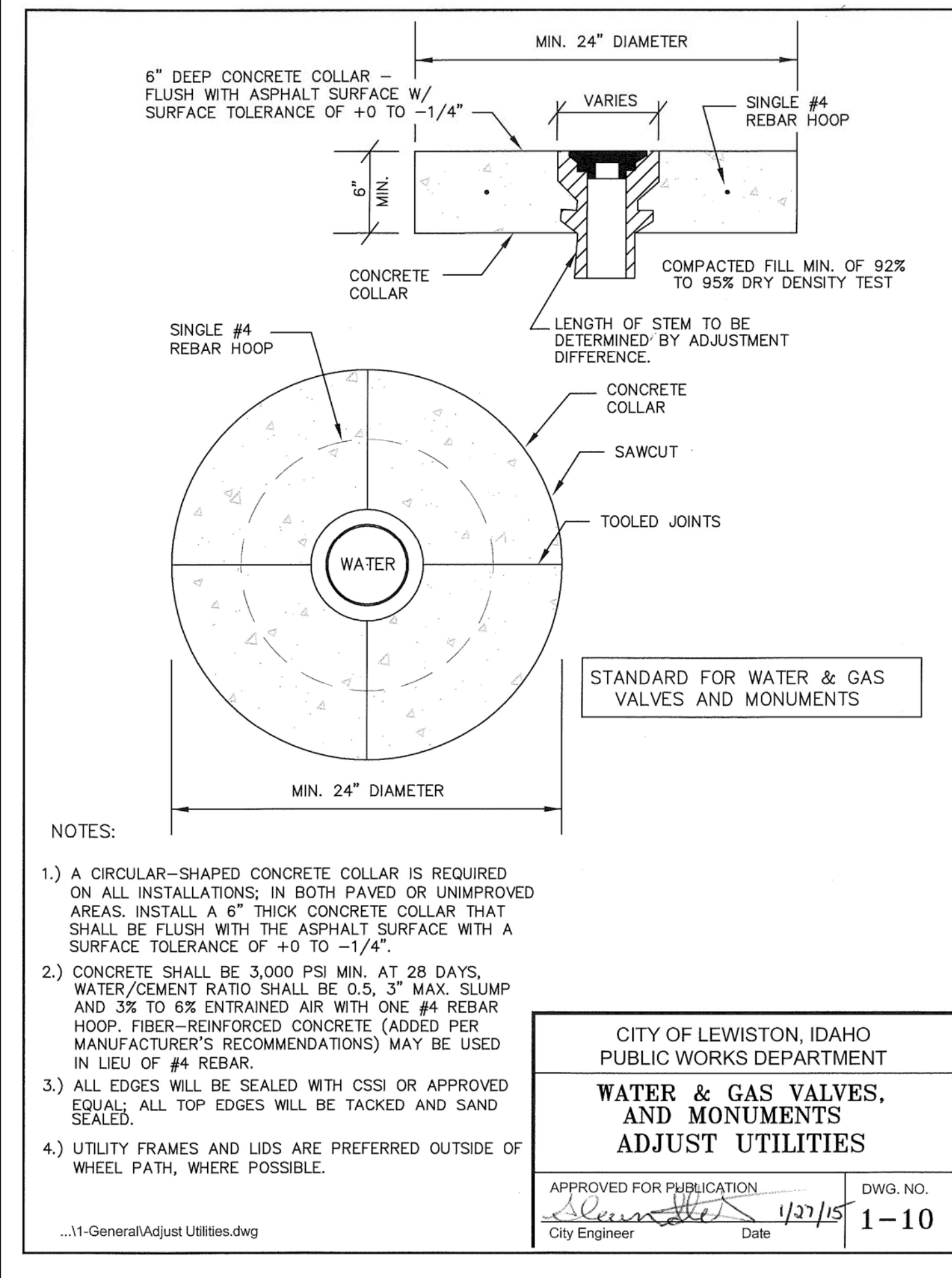
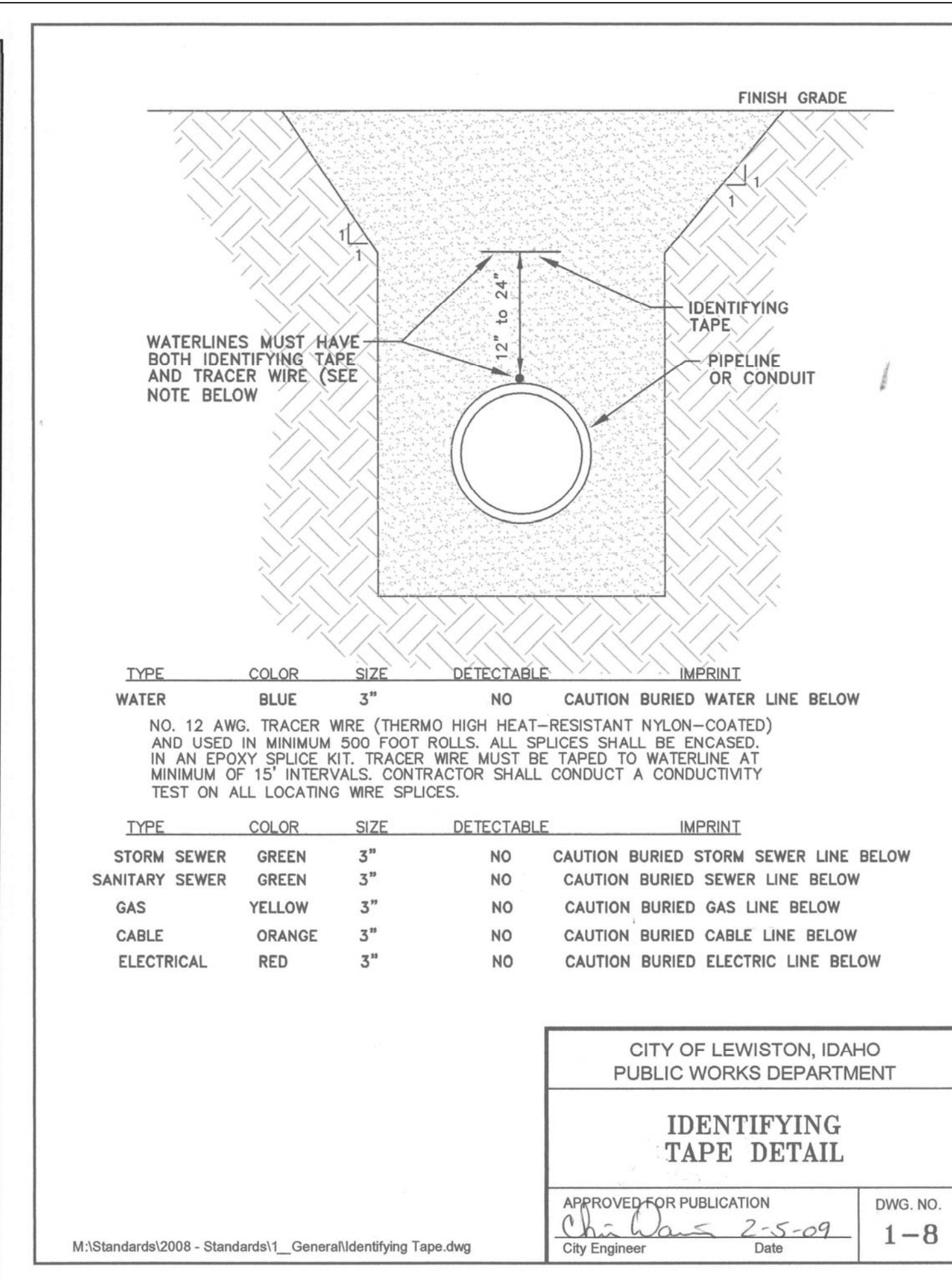
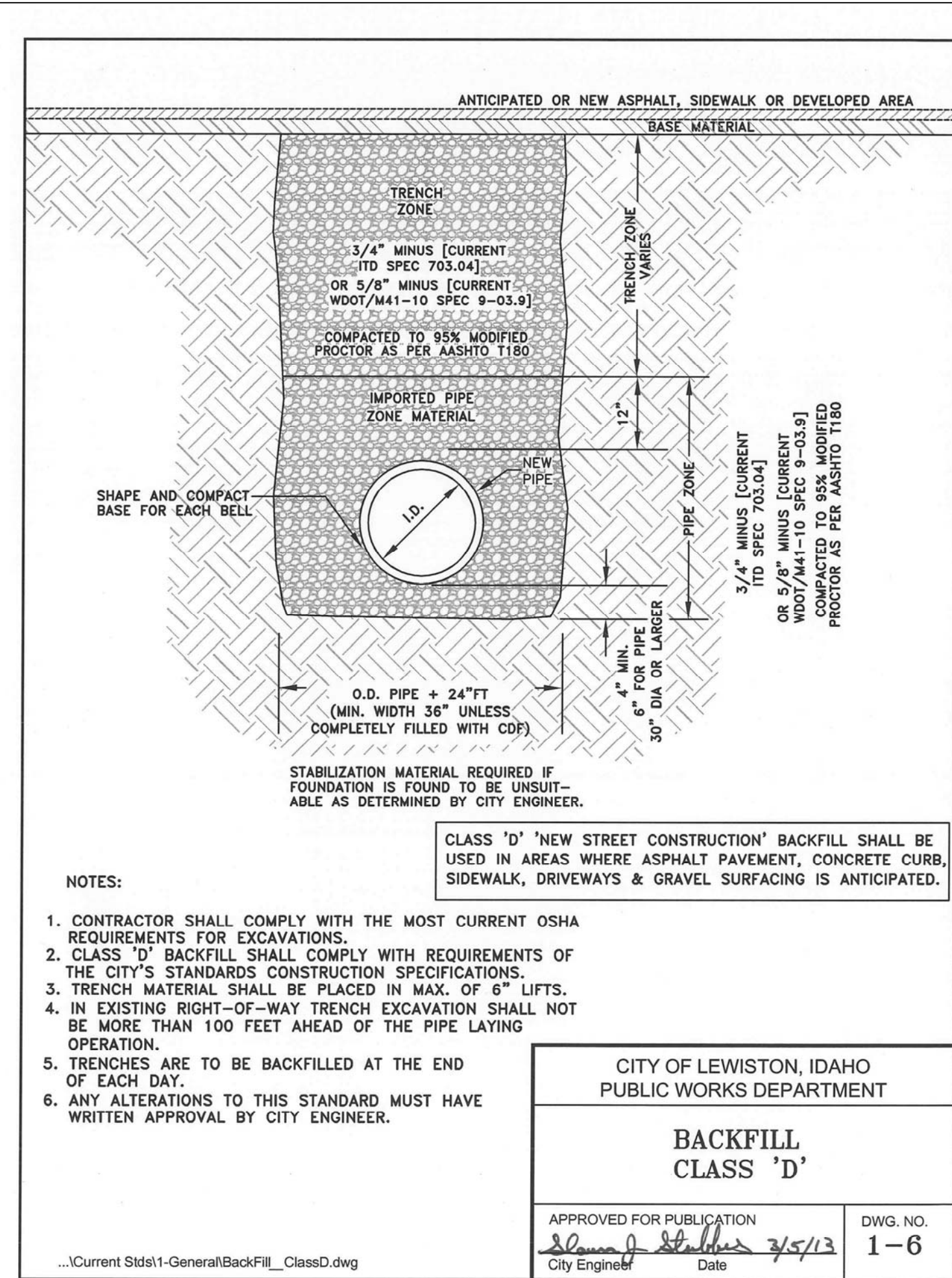
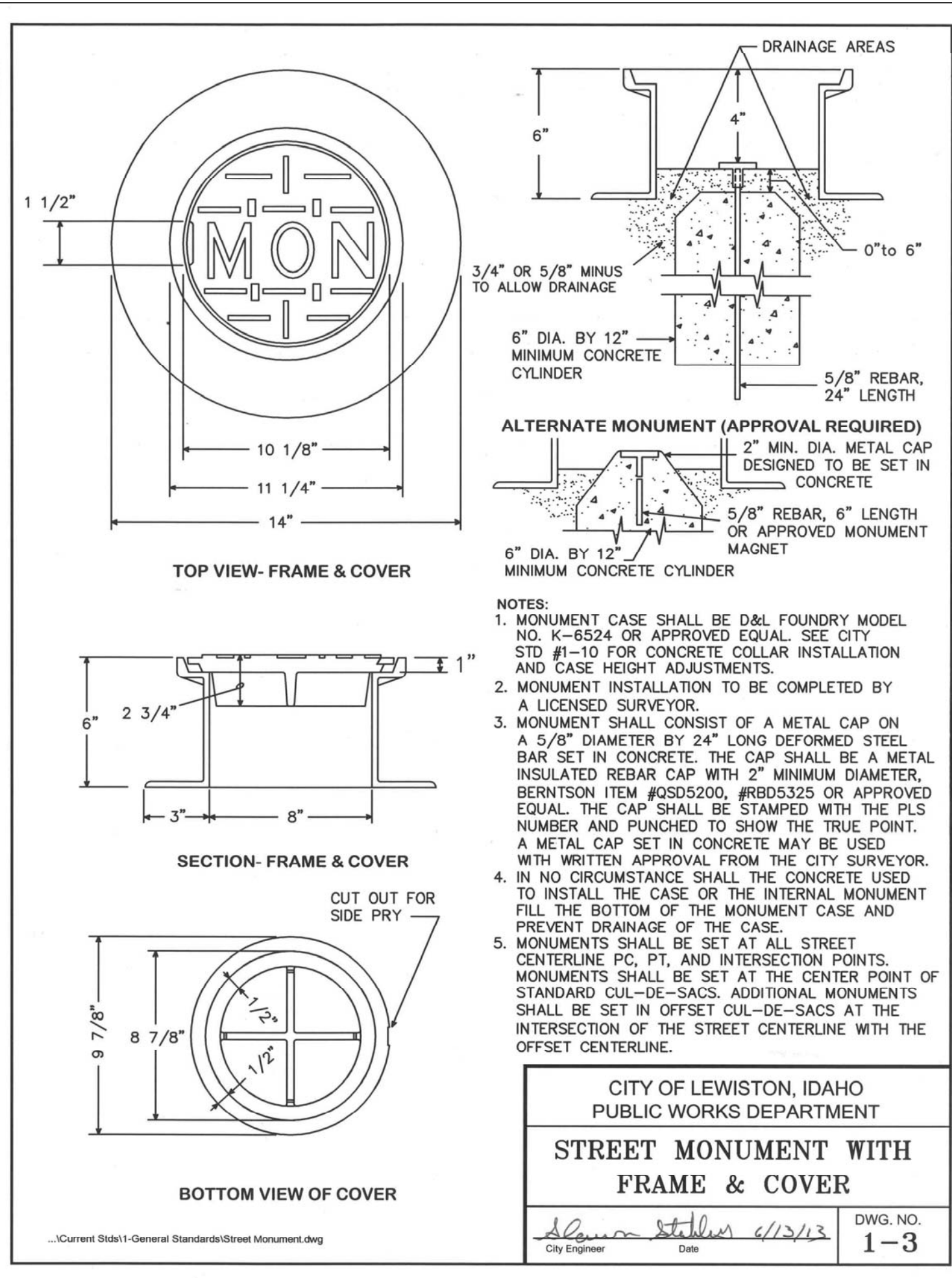
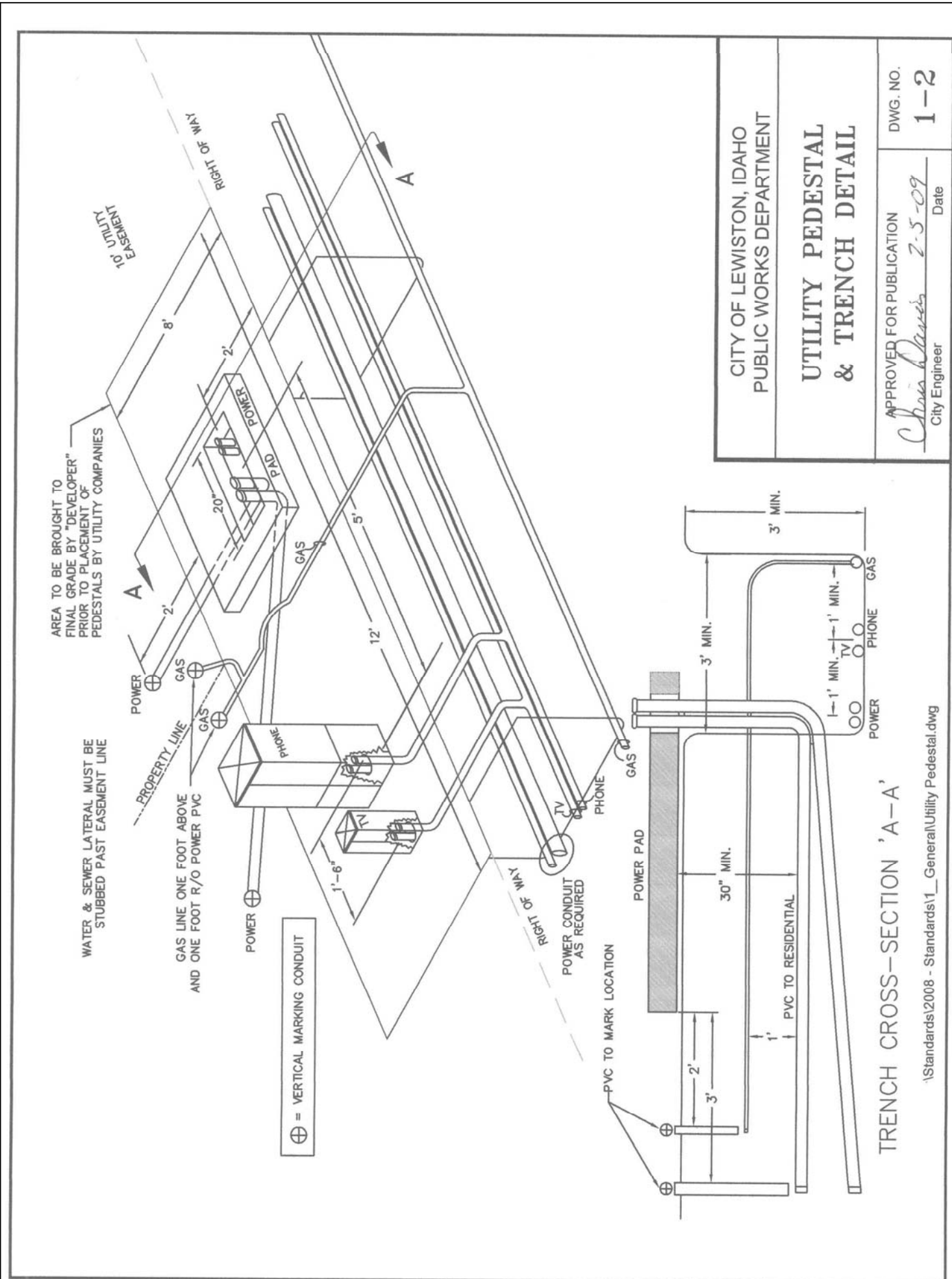
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

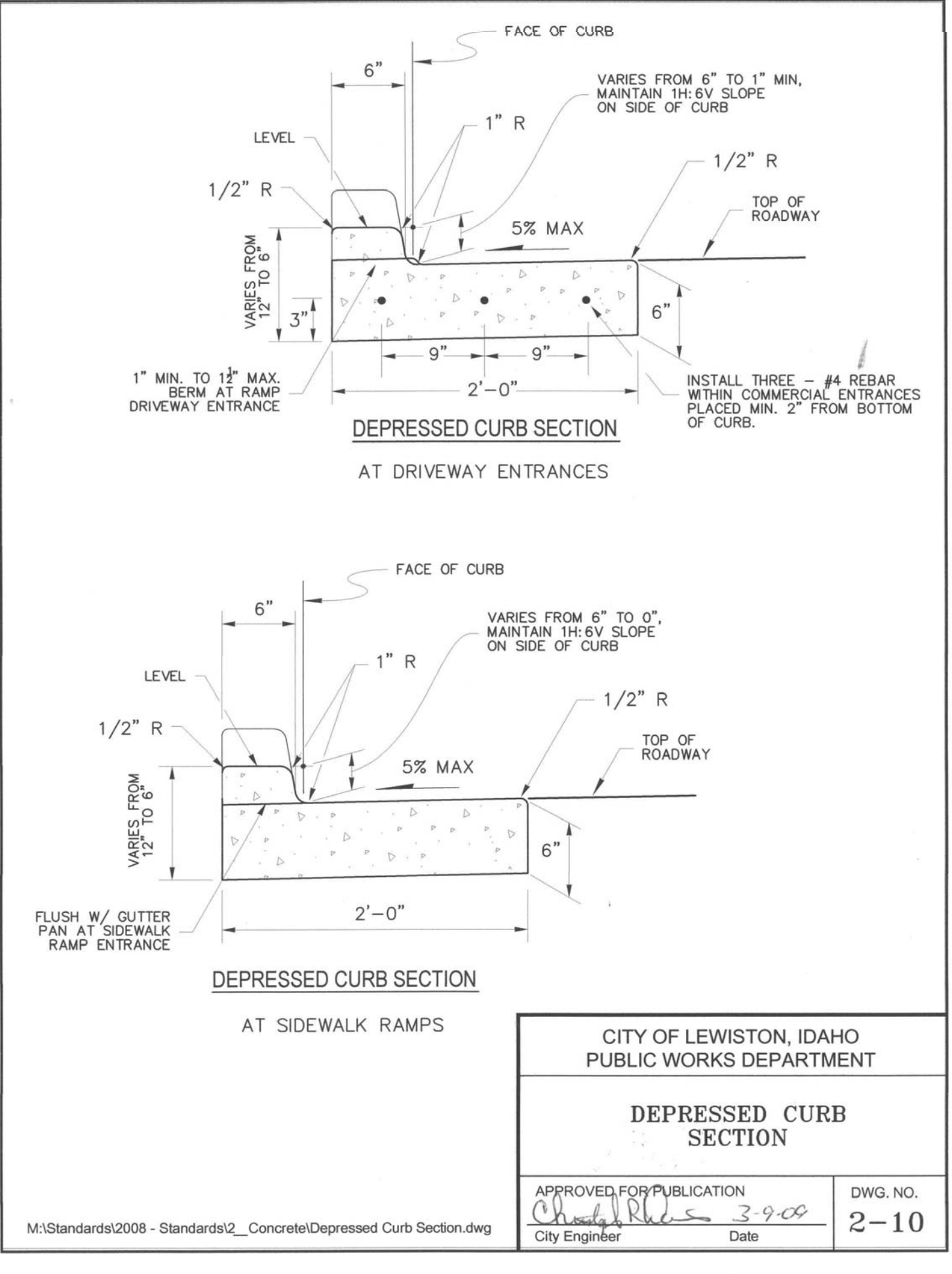
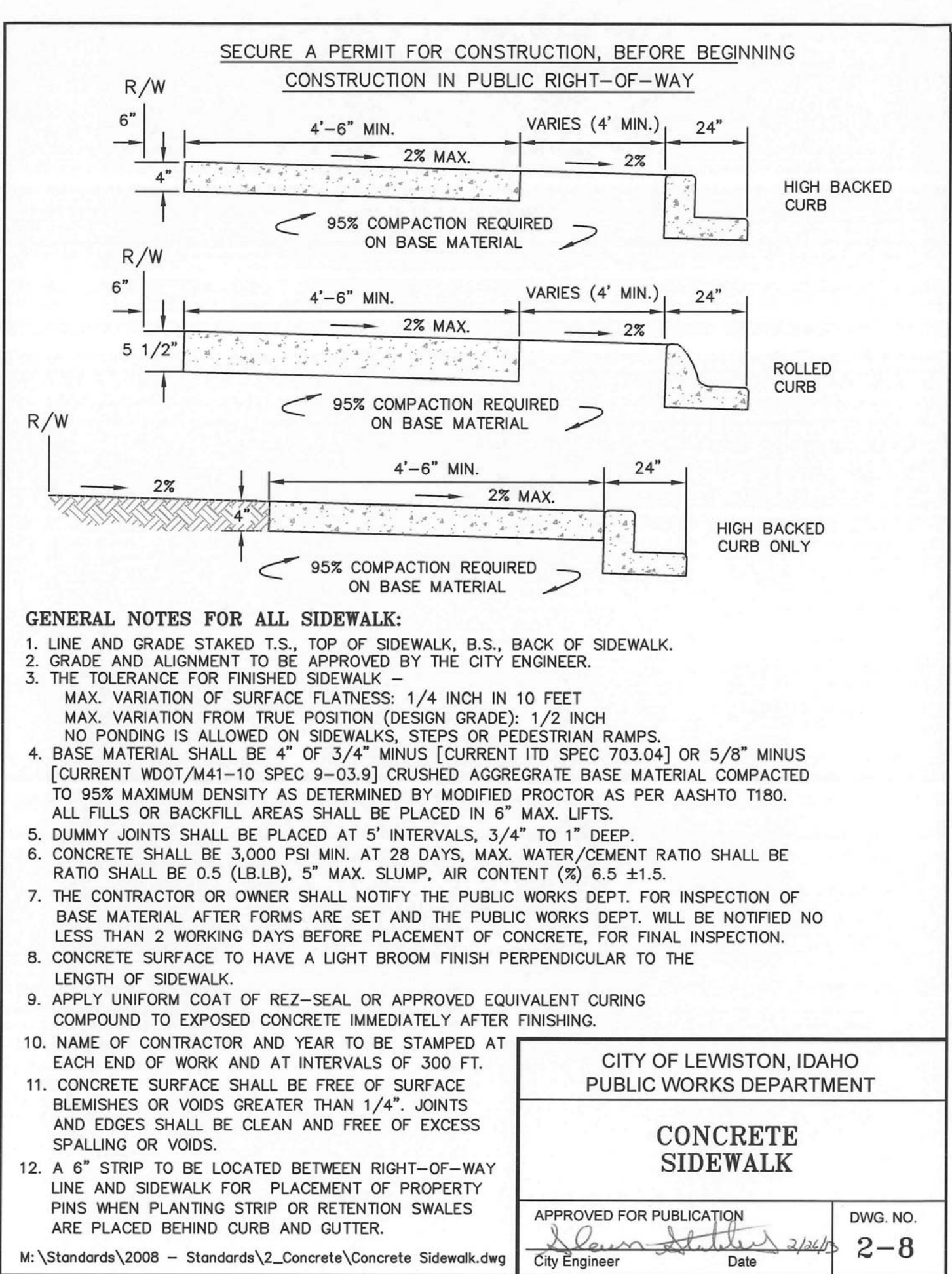
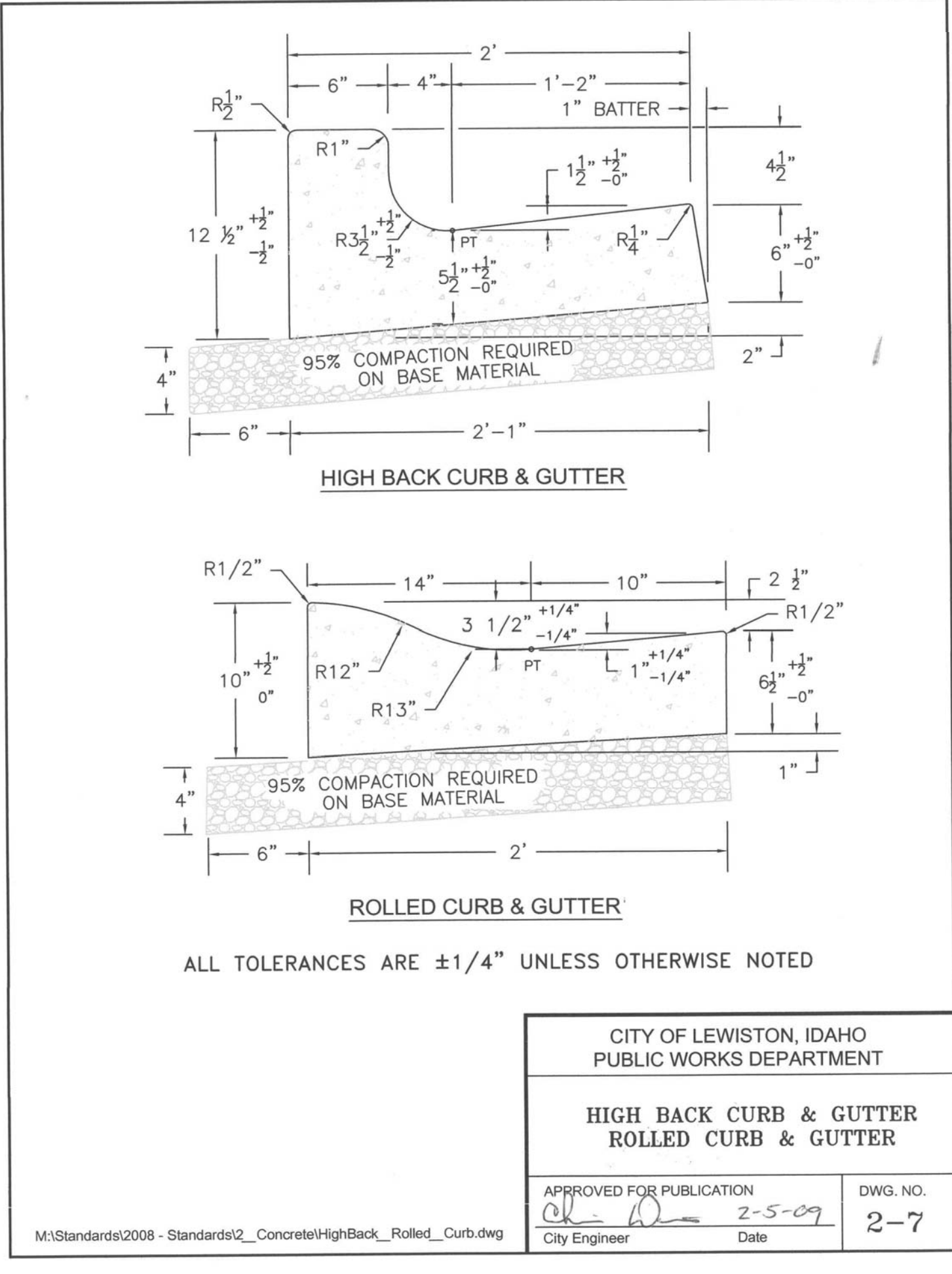
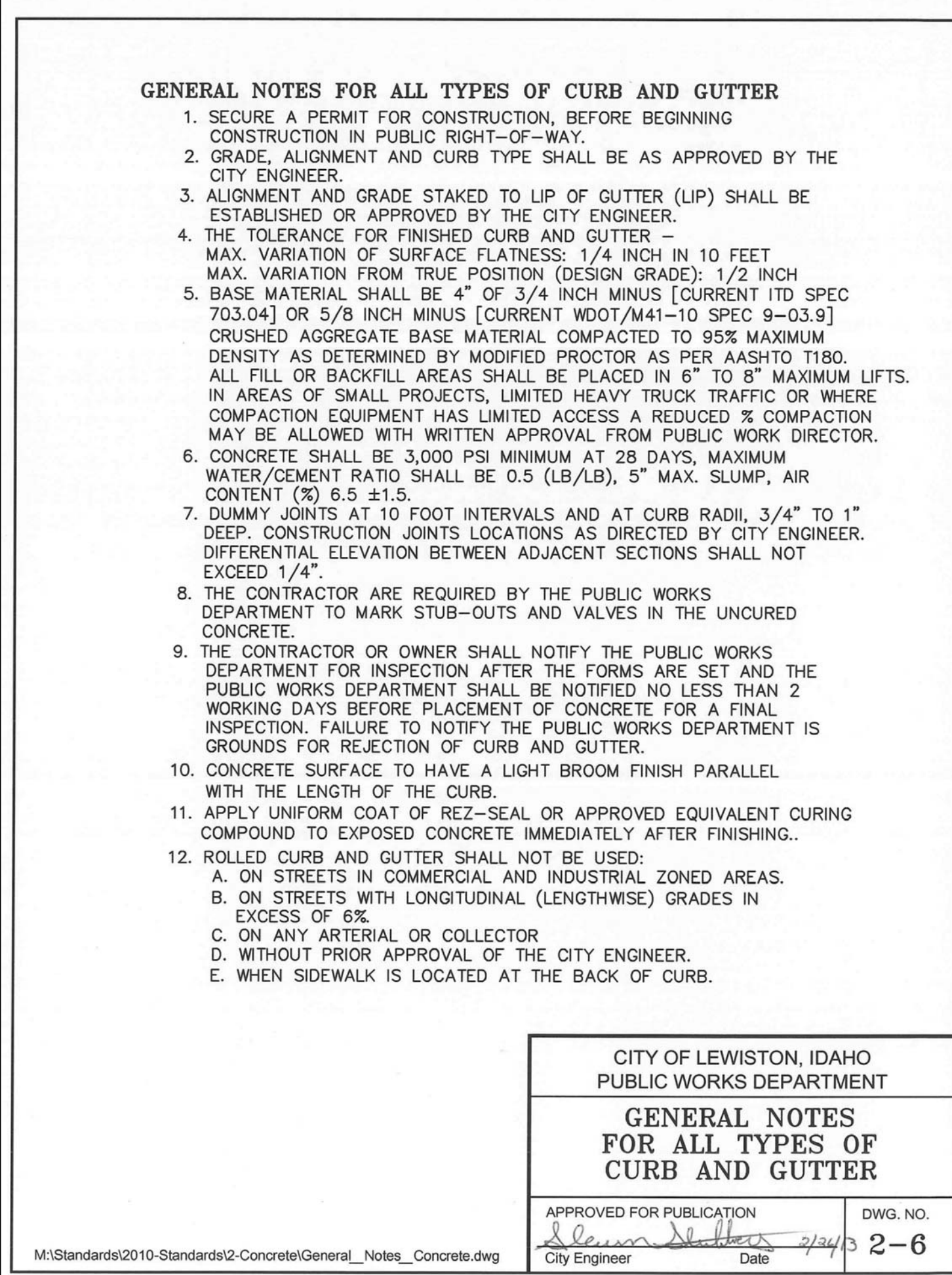
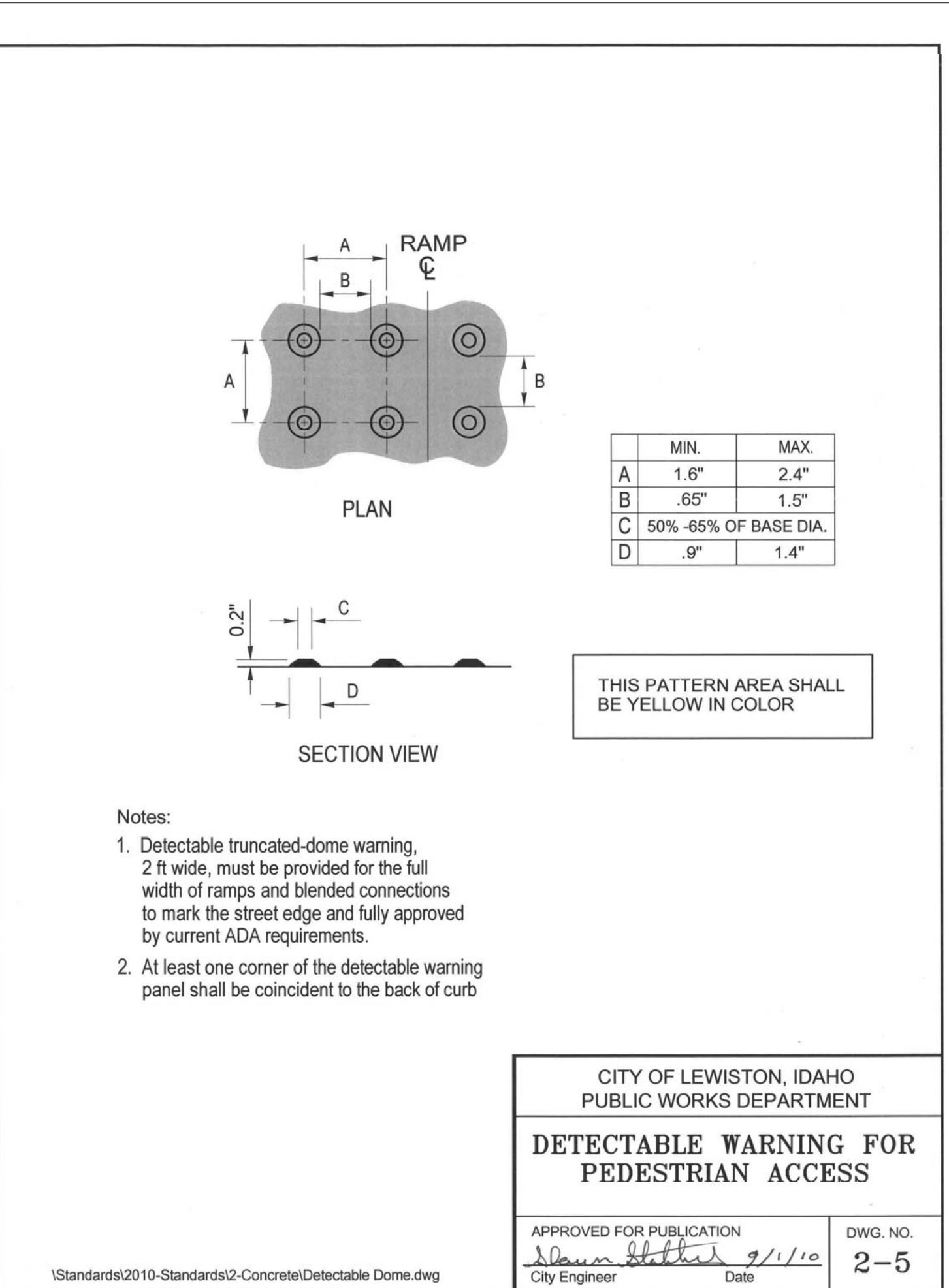
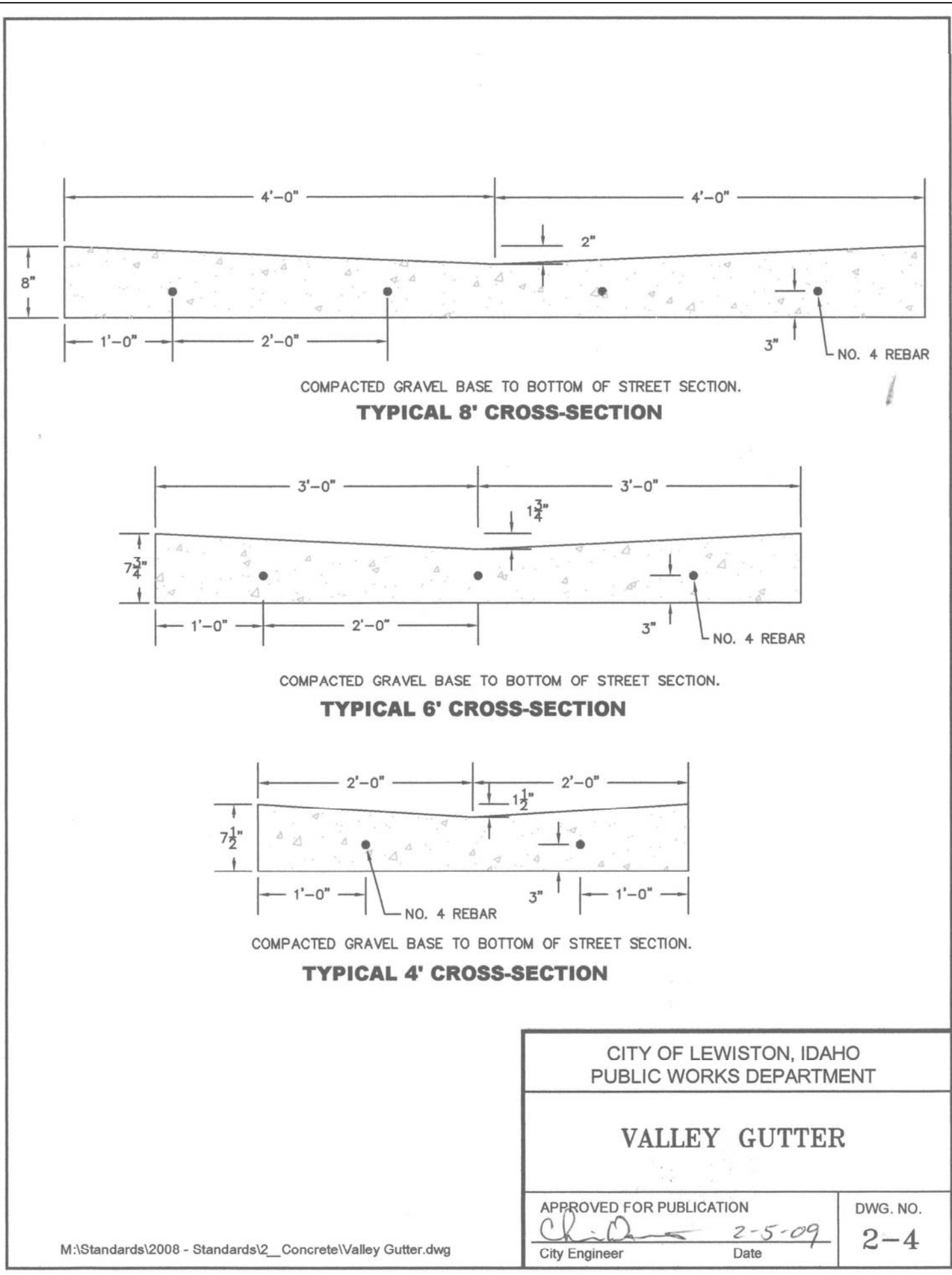
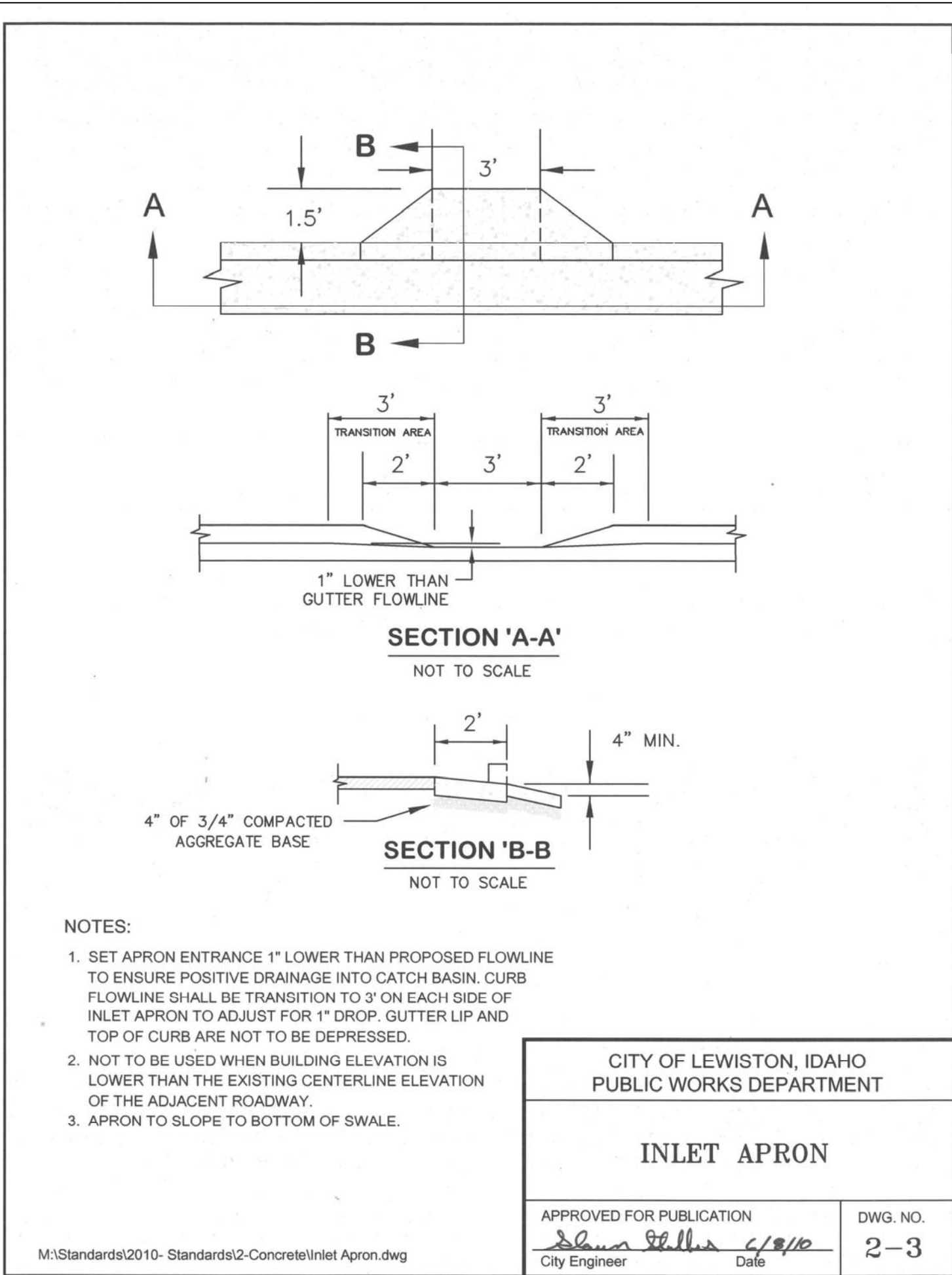
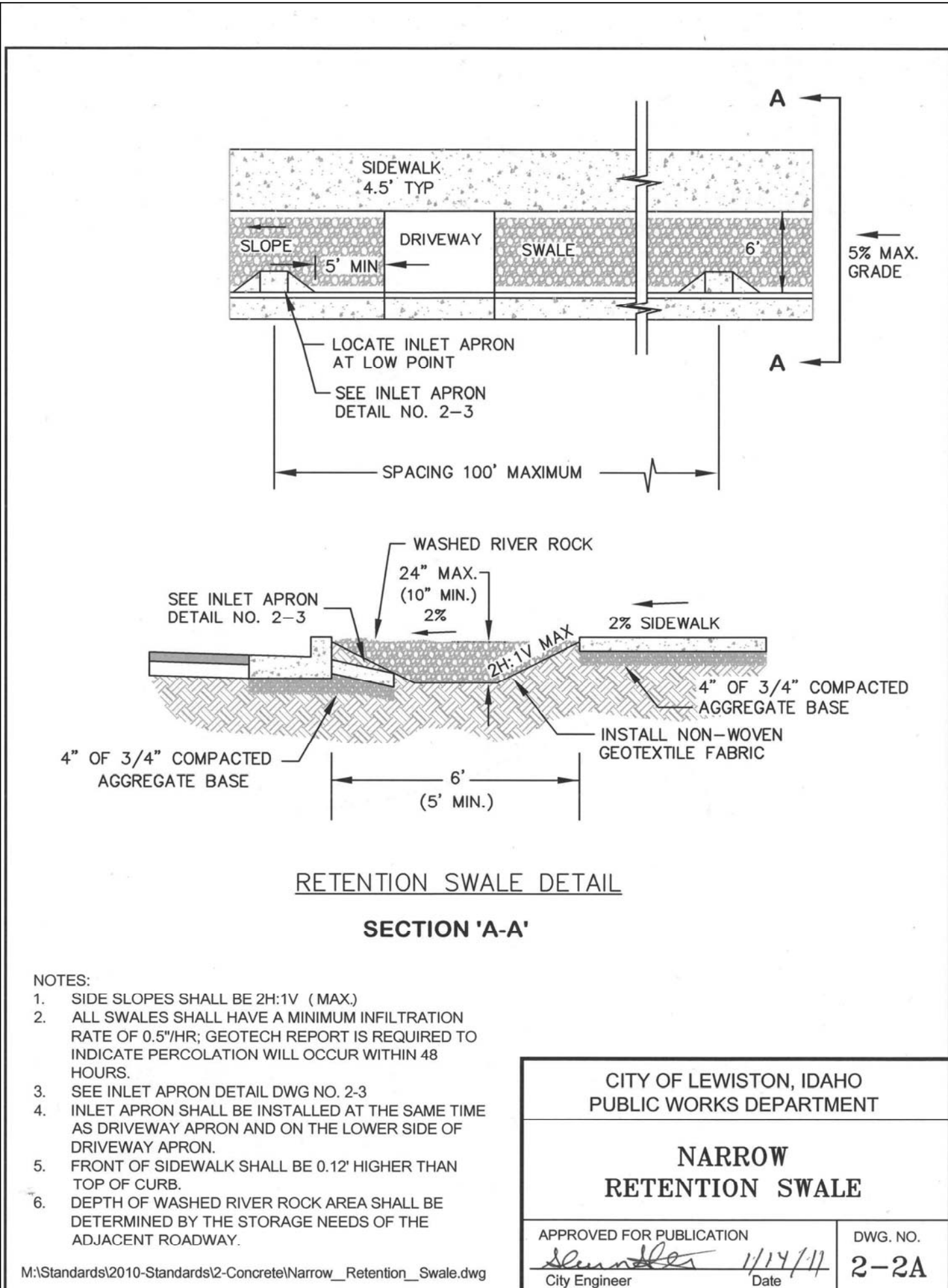
**NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
ALLEY COURT X-SECTIONS
DK HOLDINGS, LLC
LEWISTON, IDAHO**

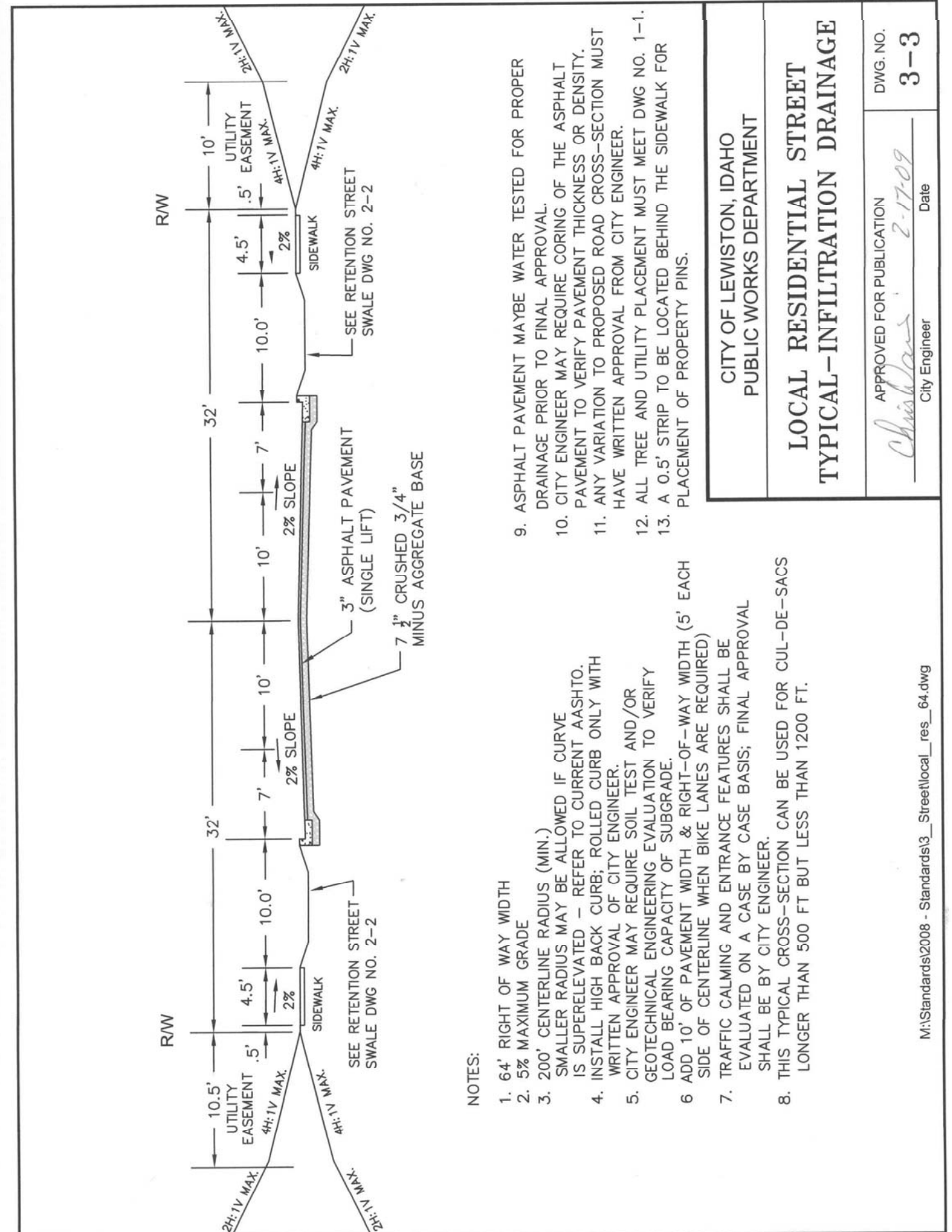
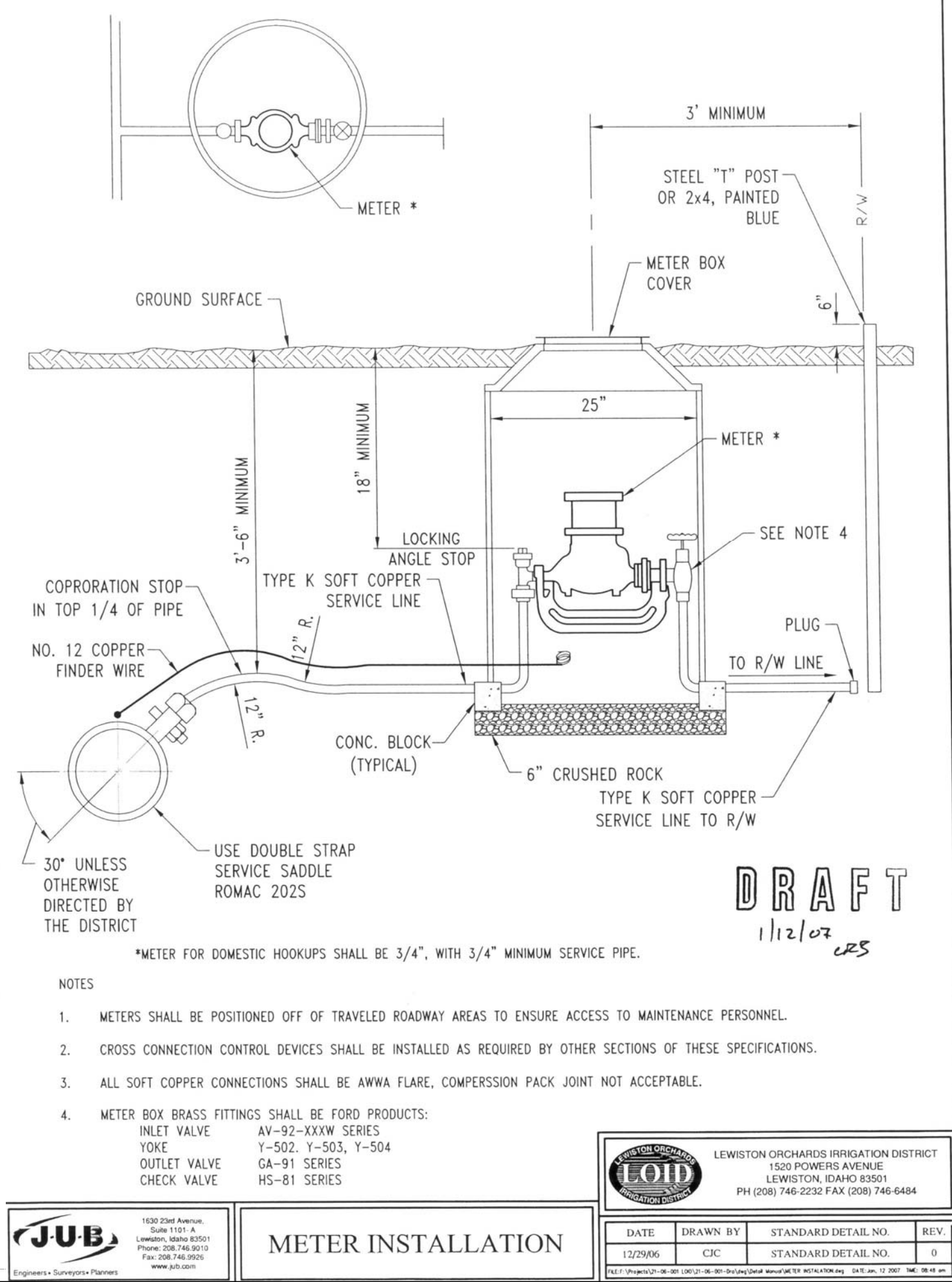
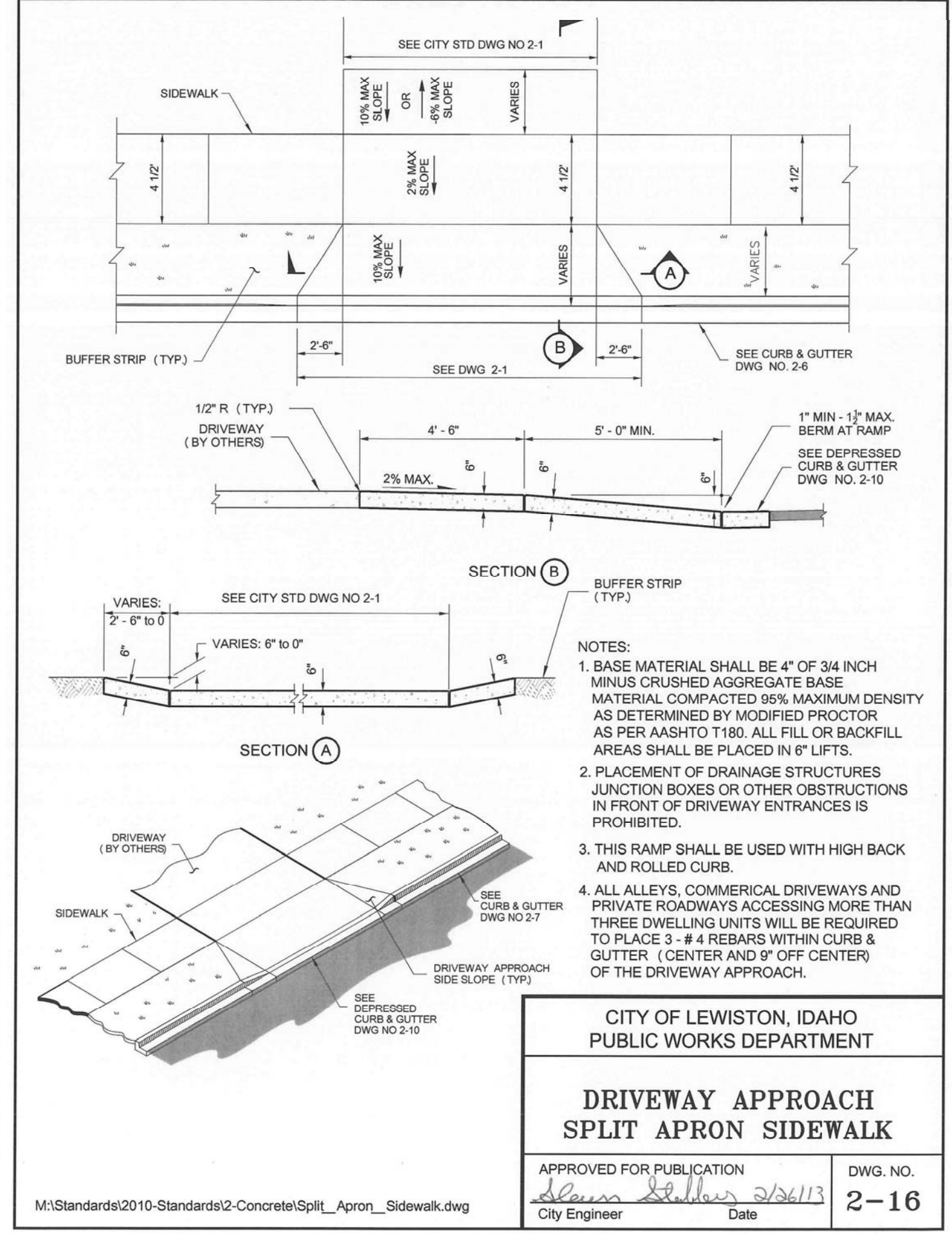
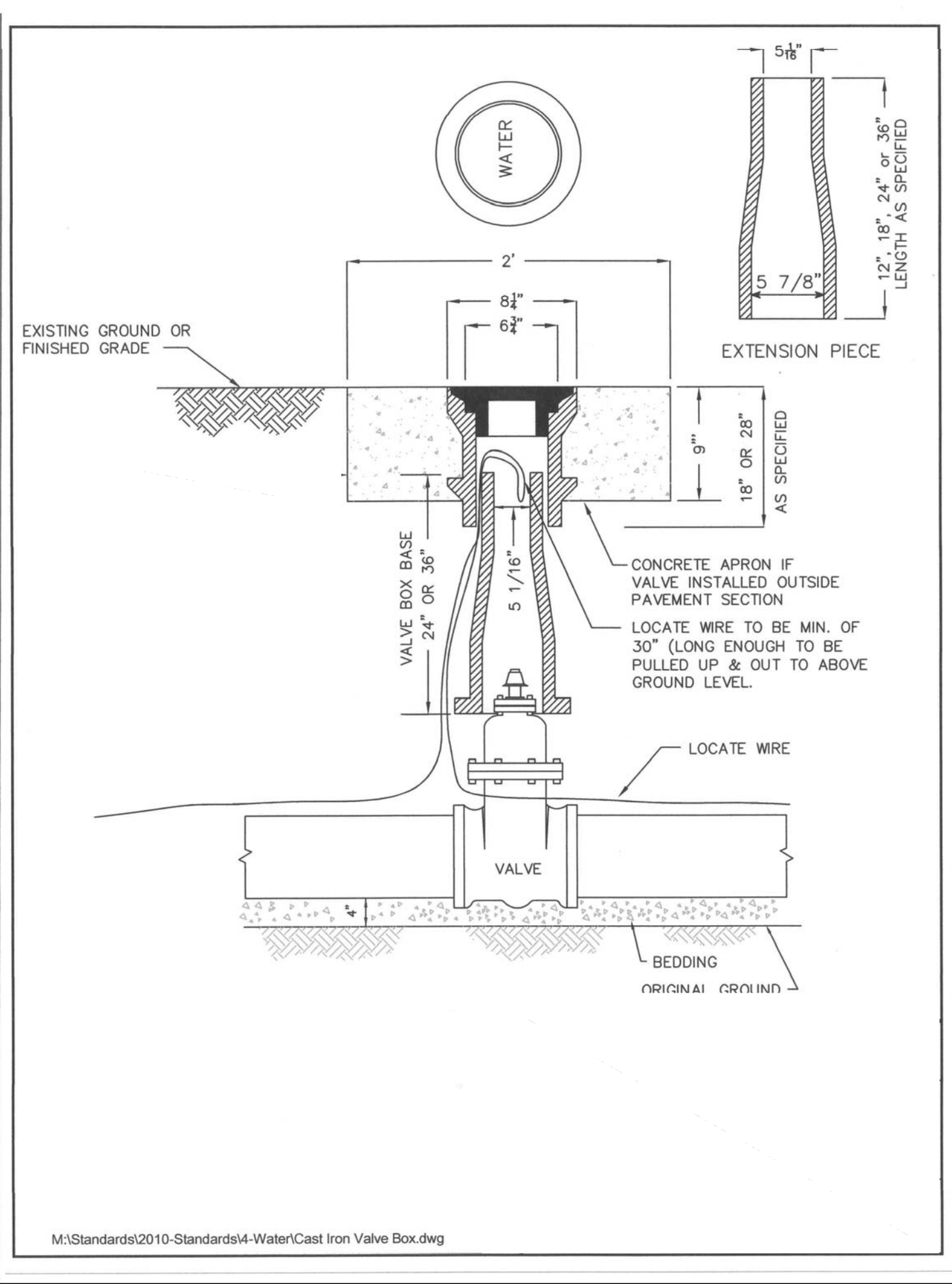
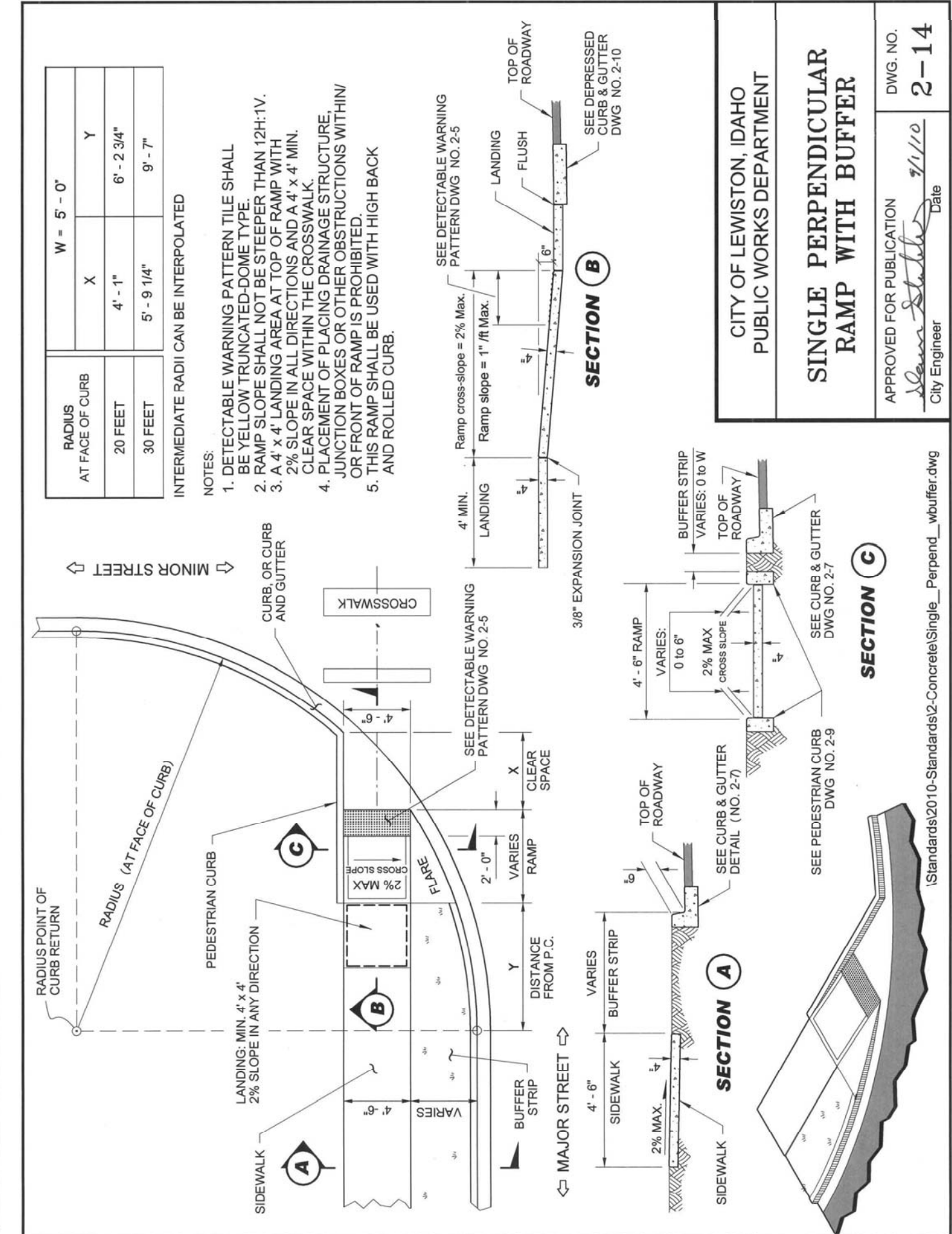
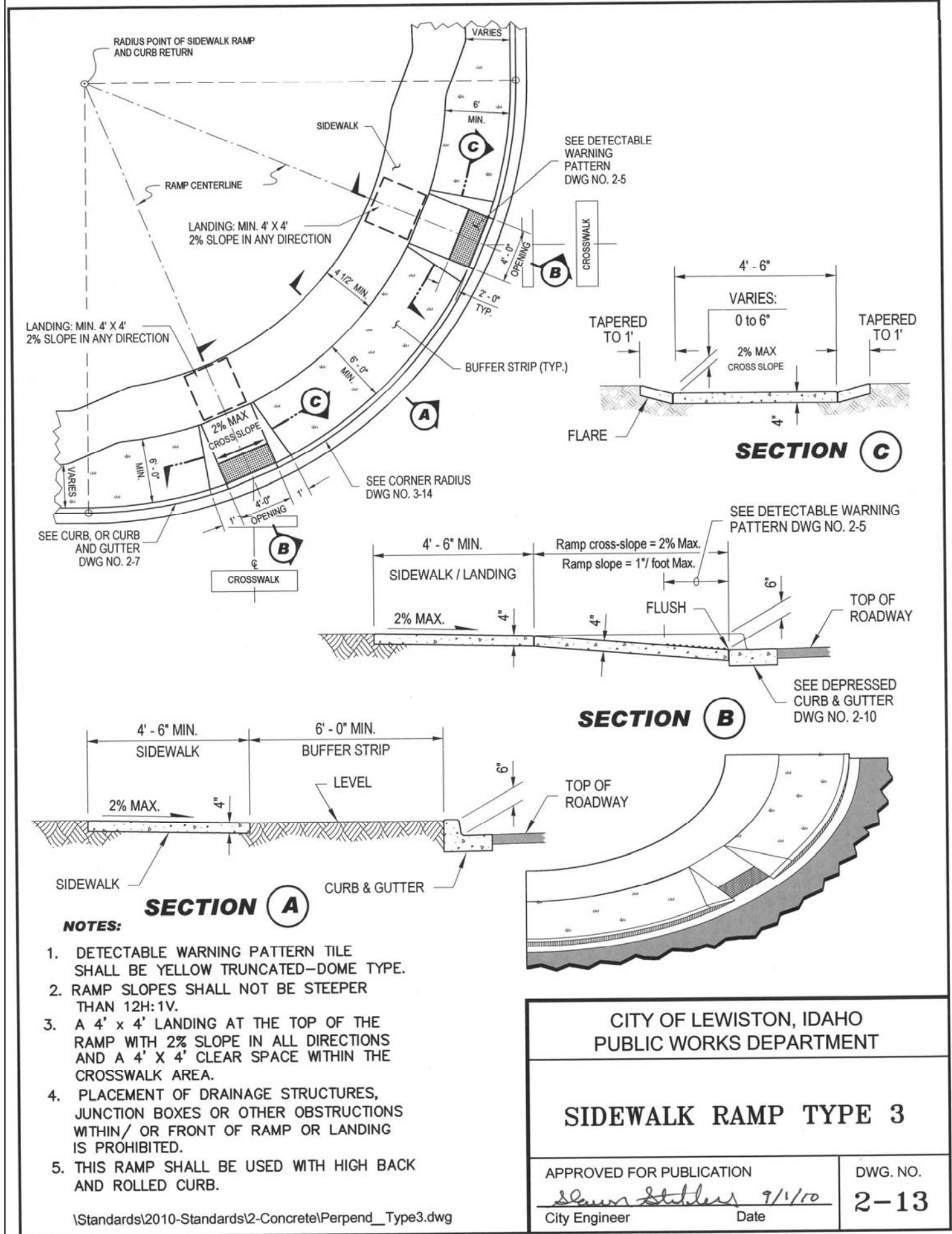
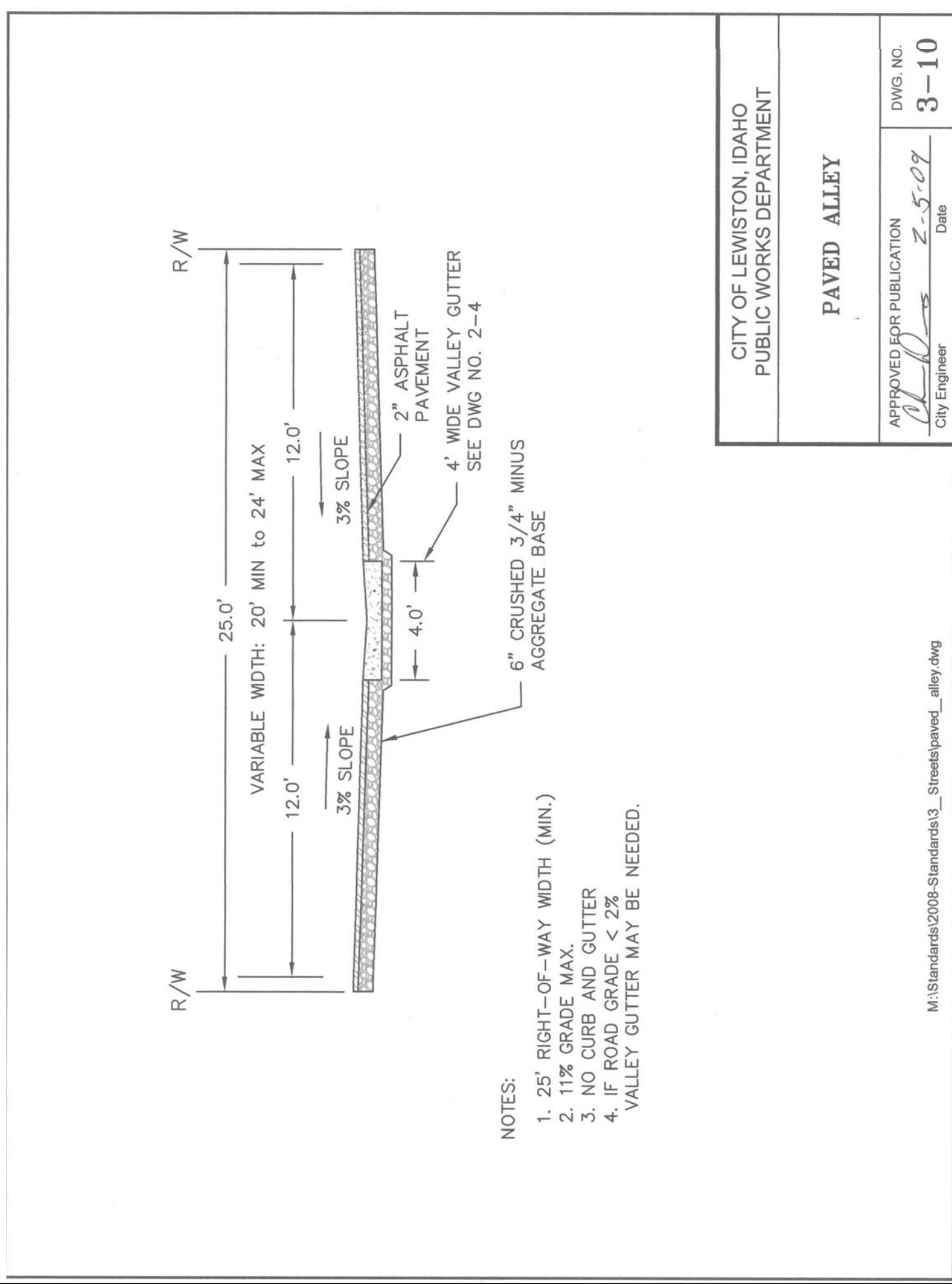
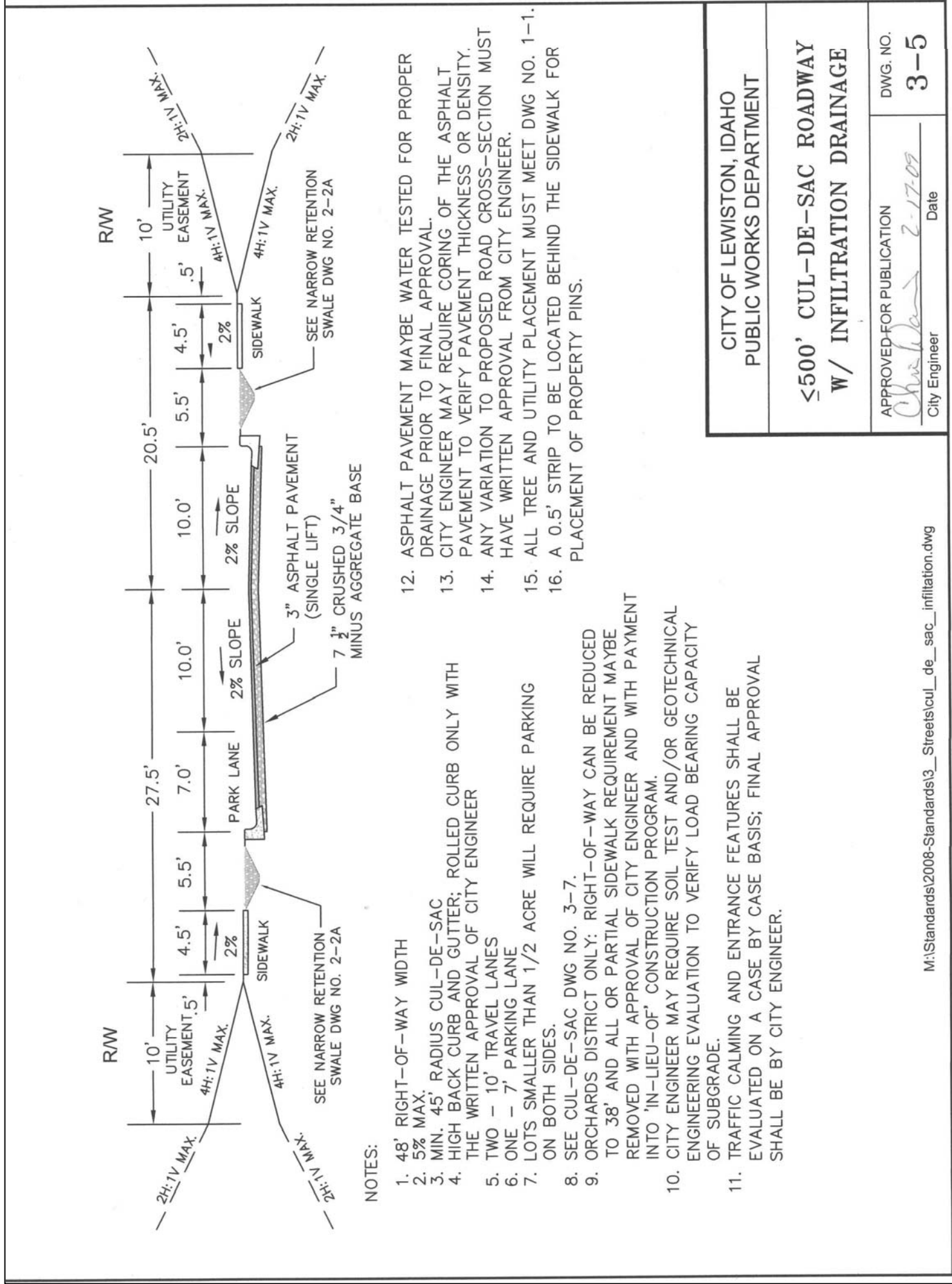
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DRAWN BY MEE	CHECKED BY JSH	
DATE 03-19-15	JOB # 1432	
SHEET C15	DRAWING # 1432-C15	

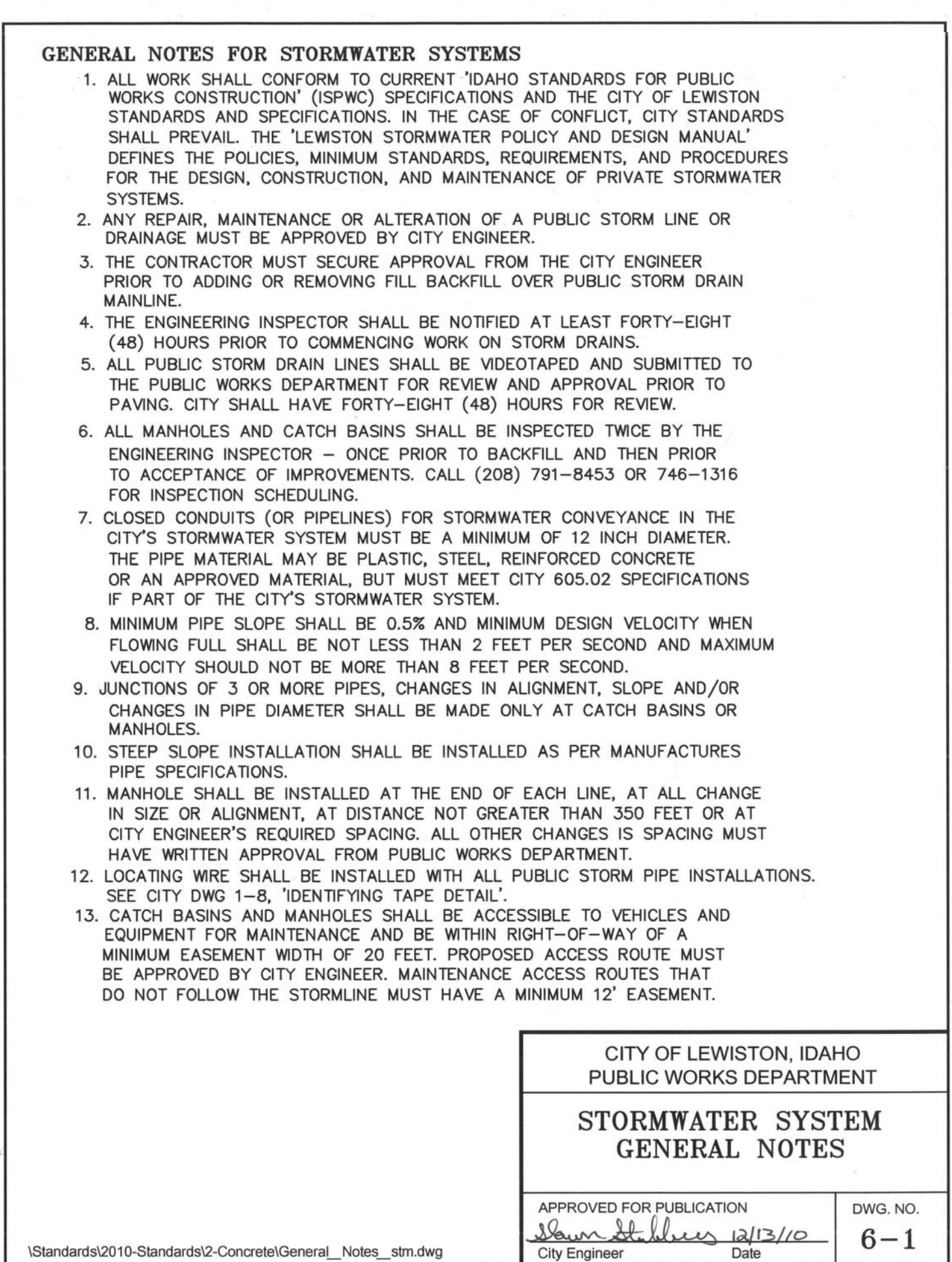
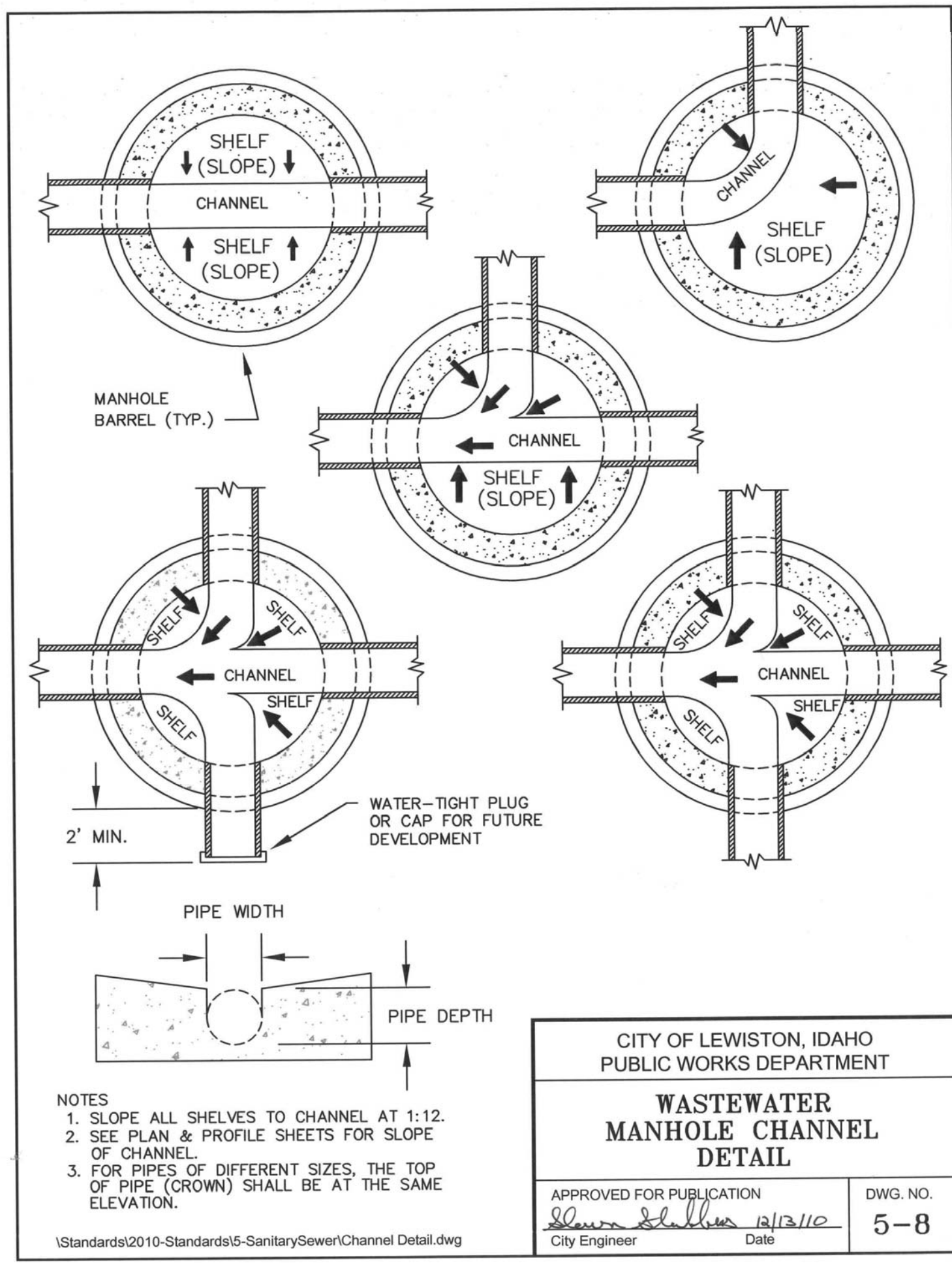
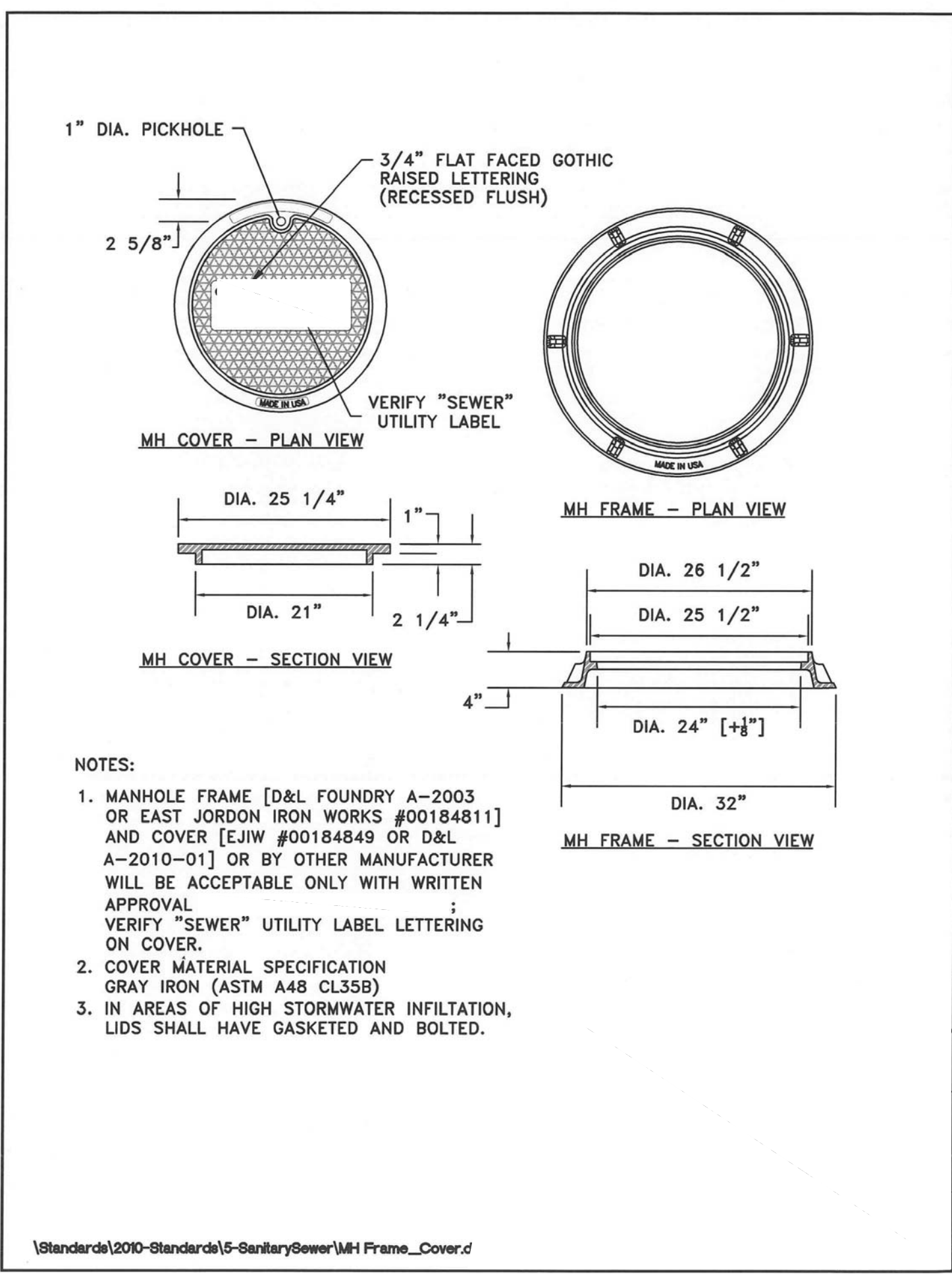
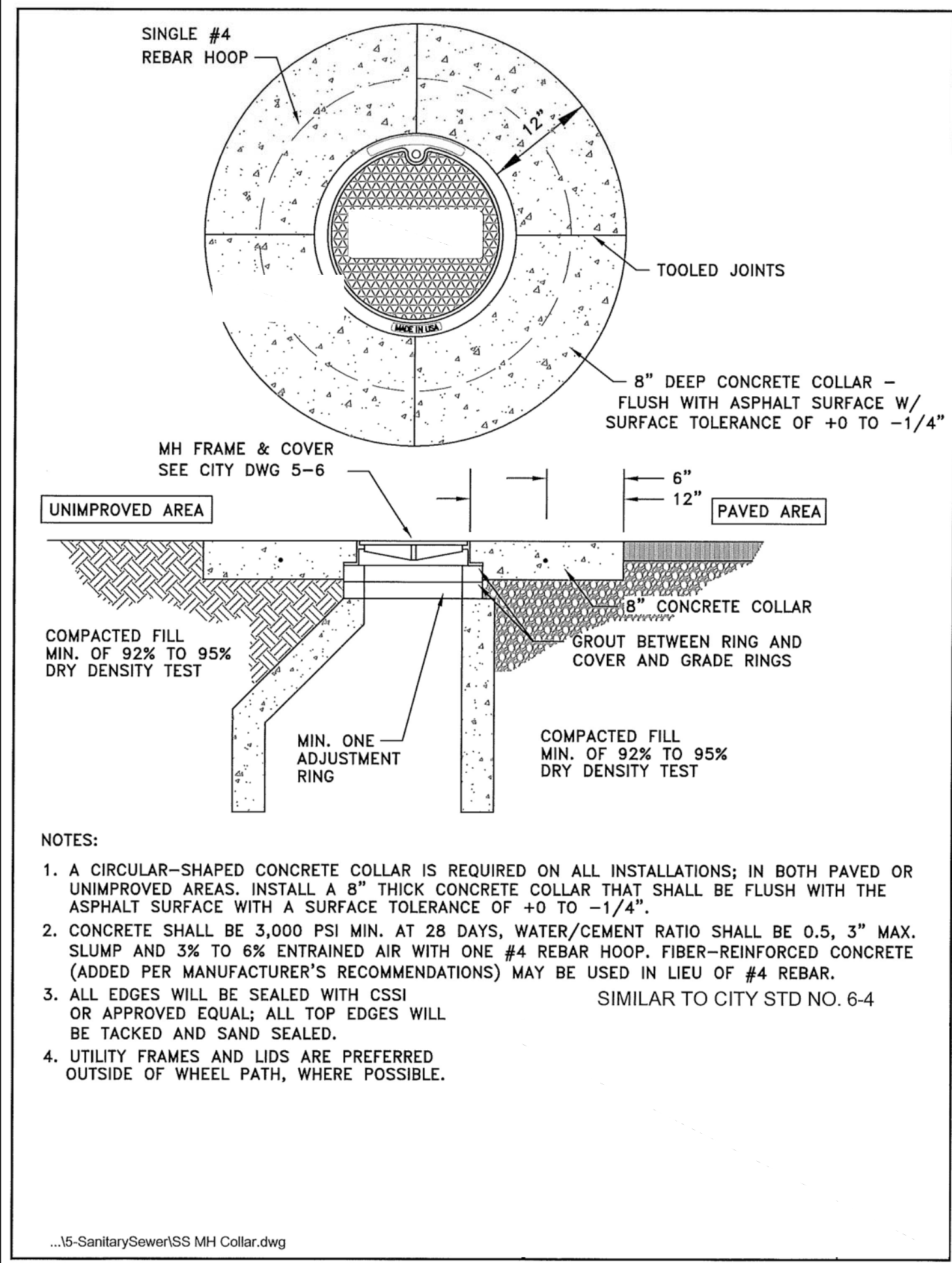
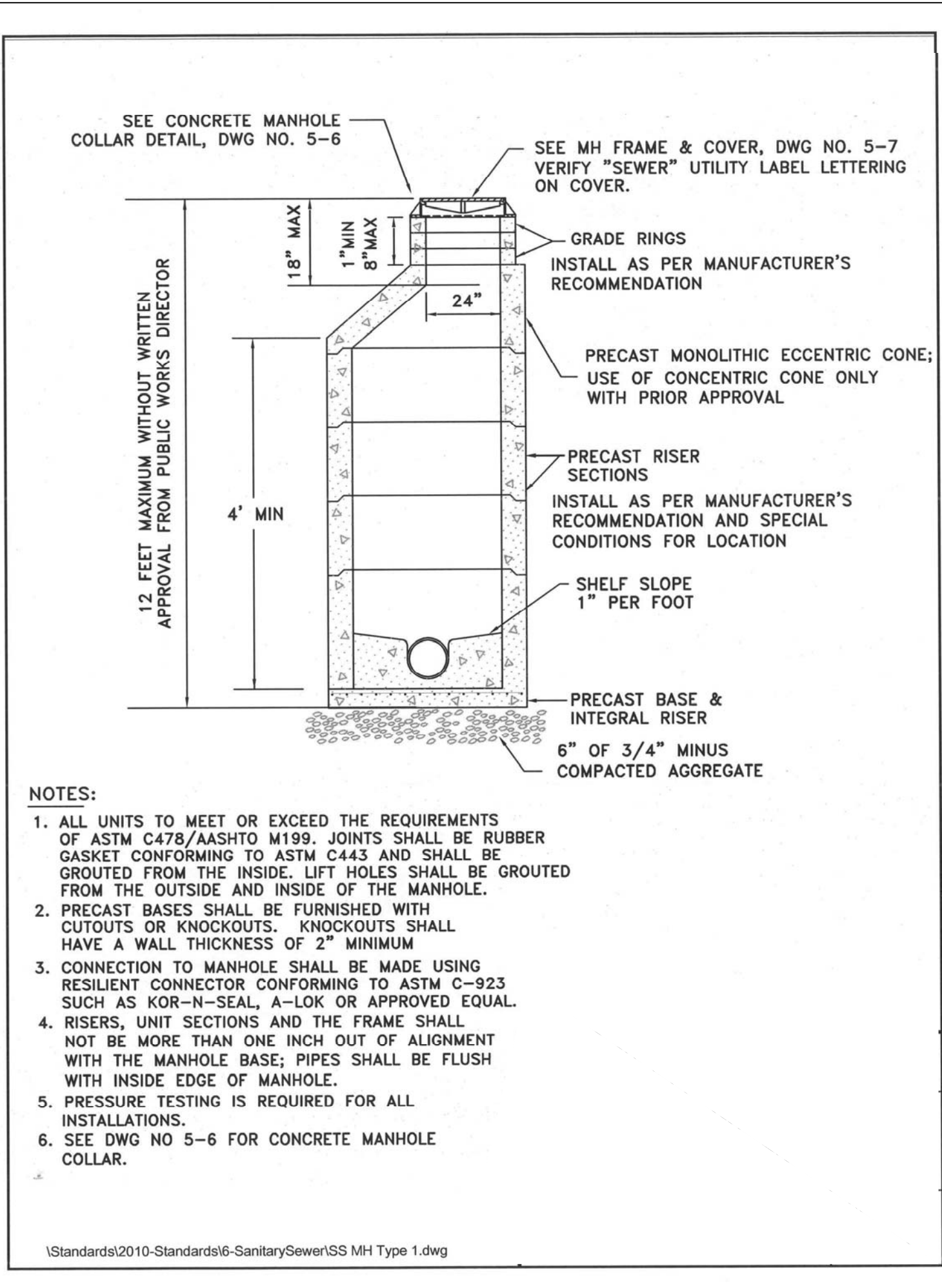
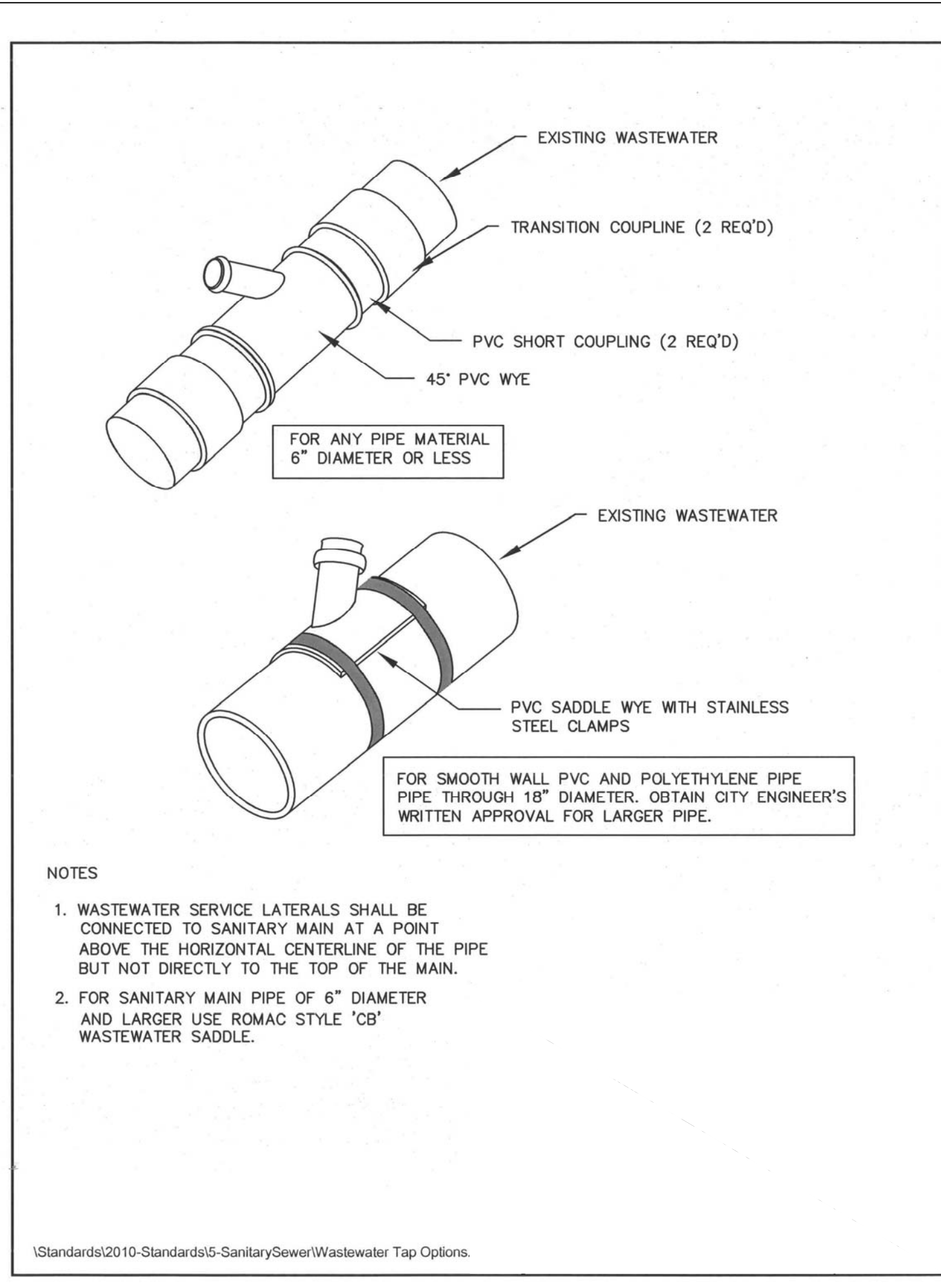
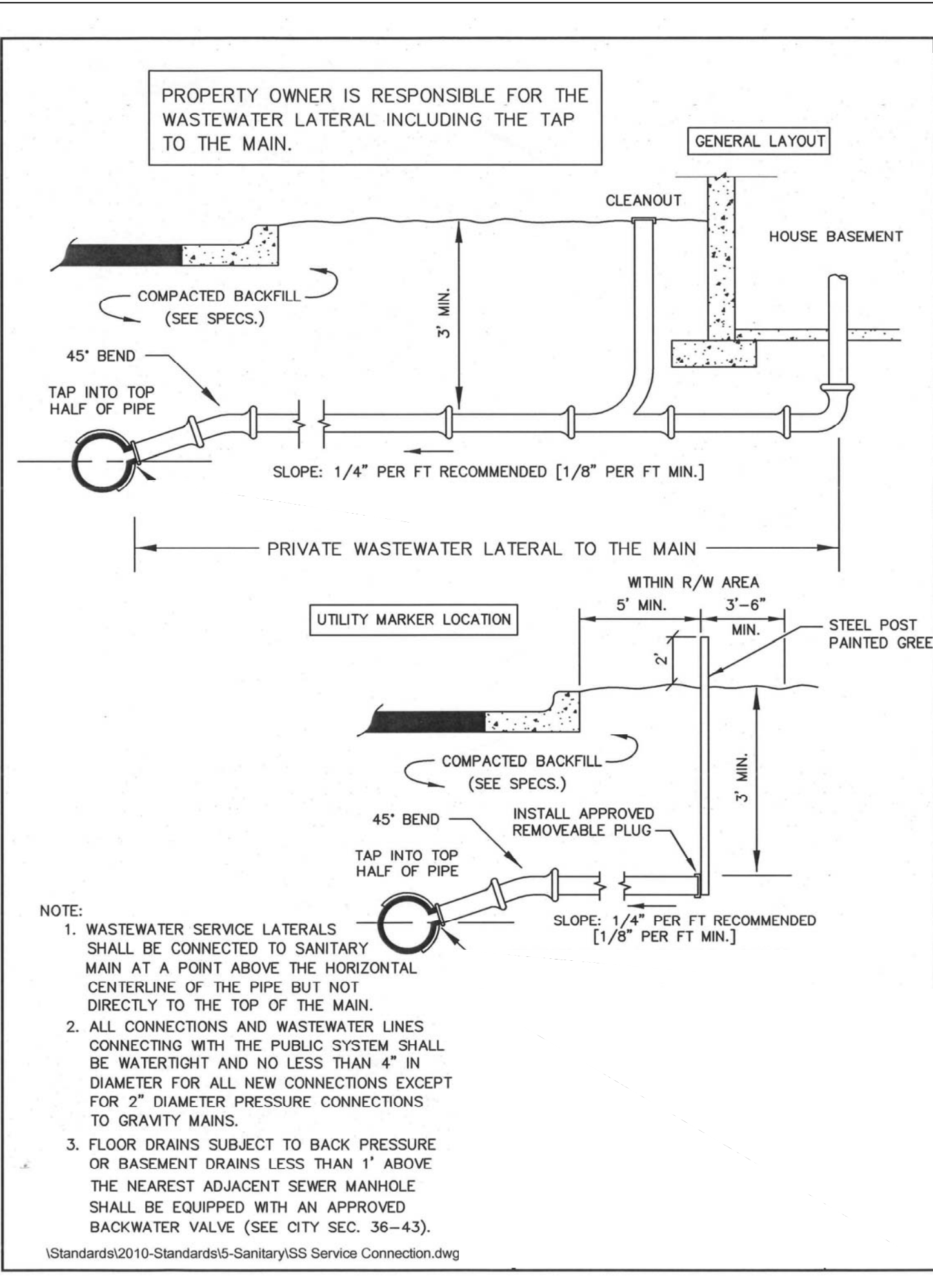
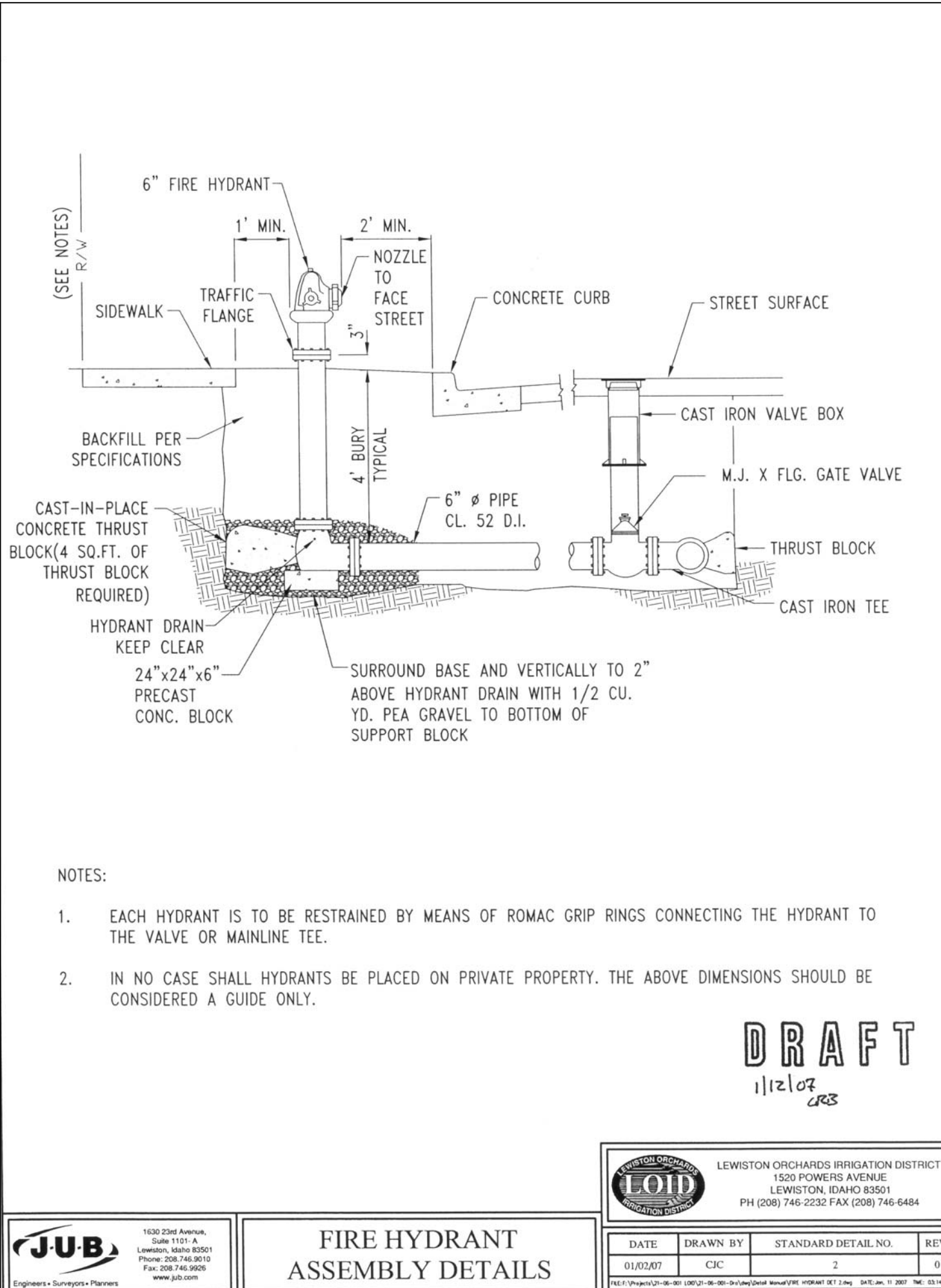


REV	DATE	DESCRIPTION	CHECKED	APPR.
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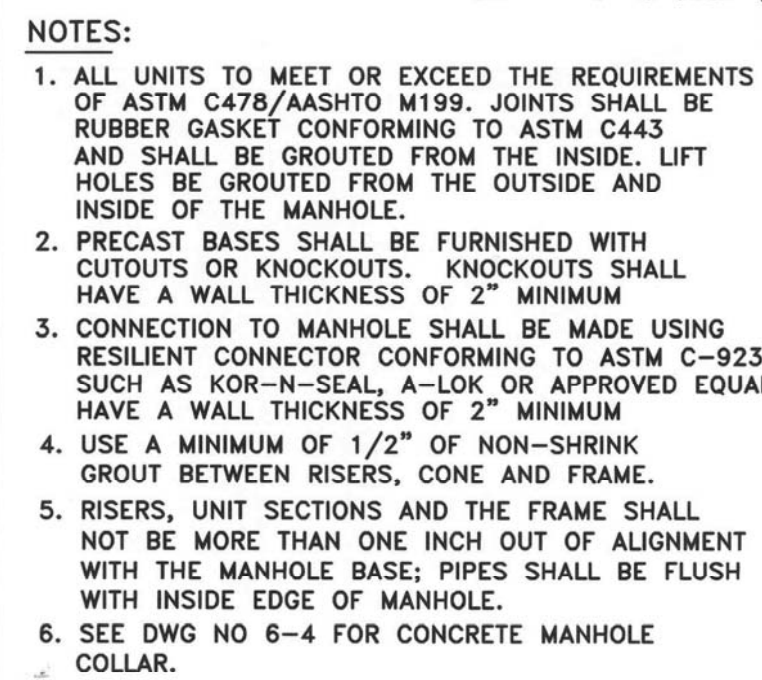




NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
STANDARD DRAWINGS
DK HOLDINGS, LLC
LEWISTON, IDAHO

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

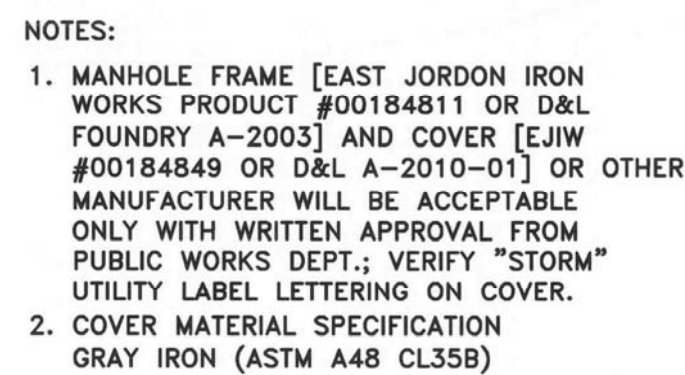
REVISION	DESCRIPTION	CHECKED	APPROVED
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CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**STORMWATER
TYPE 1 MANHOLE**

DWG. NO.
6-2



CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**STORMWATER
MANHOLE FRAME
AND COVER**

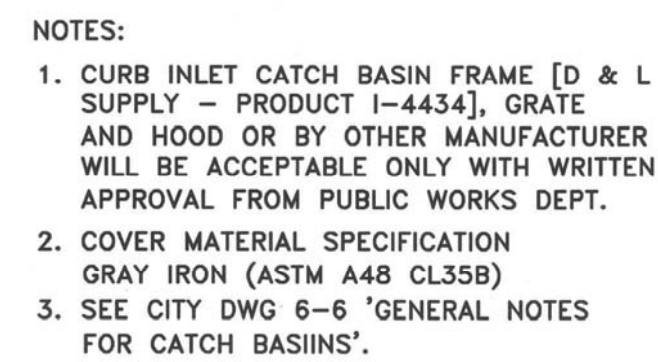
APPROVED FOR PUBLICATION	DWG. NO.
<u>James Stubbins</u> 12/13/10	6-5
City Engineer	Date

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MINIMUM PROCTOR AS PER AASHTO T160
3. ALL CATCH BASIN SHALL BE INSTALLED UPHILL TO EACH INTERSECTION CORNER RADIUS AND SPACED NO MORE THAN 400 FEET ALONG THE LENGTH OF THE STREET OR AT CITY ENGINEER'S REQUIRED SPACING. ADJUSTMENTS TO SPACING SHALL REQUIRE CALCULATIONS TO VERIFY THE CHANGES HAVE MET CITY SPECIFICATIONS.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
6. USE CITY STD DWG NO. 6-7 FOR CATCH BASIN FRAME AND GRATE.
7. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
8. MAXIMUM DEPTH FROM FINISHED GRADE TO PIPE INLET IS 5 FEET.
9. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
10. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
11. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE TO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3" ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER INL AND TOP OF CURB ARE NOT TO BE DEPRESSED.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER
GENERAL CATCH BASIN
NOTES

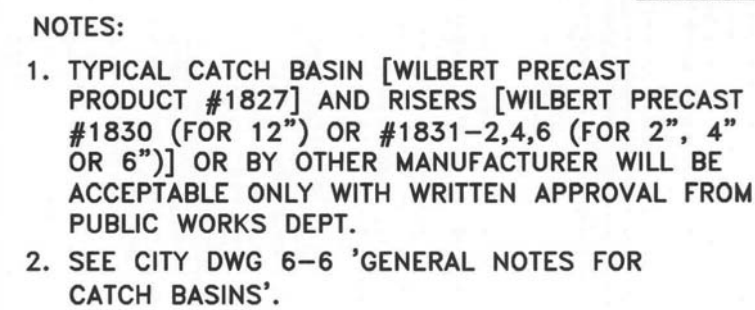
APPROVED FOR PUBLICATION <i>Glenn Hubbard</i> 12/13/10 City Engineer Date	DWG. NO. 6-6
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CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER
CATCH BASIN FRAME
AND GRATE

APPROVED FOR PUBLICATION <i>Steven Stiller</i> 11/21/13 City Engineer Date	DWG. NO. 6-7
--	-----------------



2. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASINS'.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER
TYPE 1 CATCH BASIN

DWG. NO.
6-8

M:\Standards\2010-Standards\6-StormSewer\CB Type_1.dwg

**NORTHEAST CROSSING ADDITION
PHASE I/PROJECT I
STANDARD DRAWINGS
DK HOLDINGS, LLC
LEWISTON, IDAHO**



HAMMOND ENGINEERING & DEVELOPMENT CO.
5228 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 798-5422

SHEET

C20