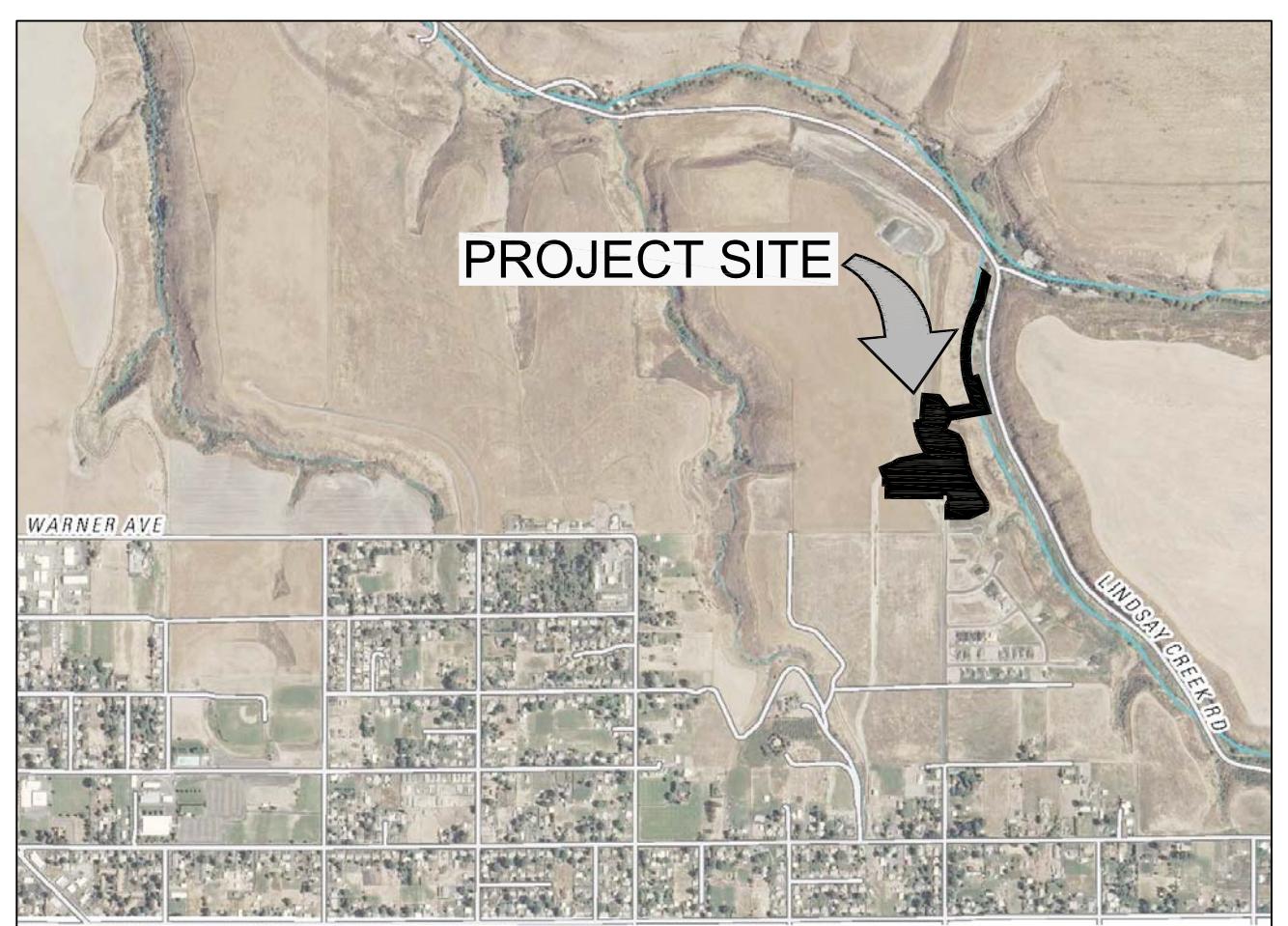


THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

CIVIL CONSTRUCTION PLANS



CONTACTS

OWNER

RPL DEVELOPMENT CO., INC.
P.O. BOX 499
Lewiston, ID 83501

GEOTECHNICAL SERVICES

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

UTILITY PROVIDERS

SANITARY SEWER	CITY OF LEWISTON (Bryan Lacy)	208-743-1316
WATER	L.O.I.D.	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



Know what's below.
Call before you dig.

LEGEND

— San — San	PROPOSED SAN. SEWER	— San — San	EXISTING SAN. SEWER
— SD — SD	PROPOSED STORM SEWER	— SD — SD	EXISTING STORM SEWER
— V — V — V	PROPOSED WATER LINE	— V — V — V	EXISTING WATER LINE
— F — F — F	PROPOSED FIRE PROTECTION	— F — F — F	EXISTING FIRE PROTECTION
■■■	PROPOSED FENCE LINE	■■■	EXISTING OVERHEAD ELECTRICAL LINE
●●●	PROPOSED CATCH BASIN	●●●	EXISTING UNDERGROUND ELECTRICAL LINE
○○○	PROPOSED MANHOLE	○○○	EXISTING FENCE LINE
▣▣▣	PROPOSED WATER METER	▣▣▣	EXISTING CATCH BASIN
☒☒☒	PROPOSED GATE VALVE	☒☒☒	EXISTING MANHOLE
●●●	PROPOSED FIRE HYDRANT	●●●	EXISTING GATE VALVE
►►►	PROPOSED THRUST BLOCK	►►►	EXISTING FIRE HYDRANT
XXXX	PROPOSED CONTOUR LINE	XXXX	EXISTING THRUST BLOCK
XXXX	PROPOSED SPOT ELEVATION	XXXX	EXISTING WATER METER
●●●	PROPOSED CENTERLINE MONUMENT	●●●	EXISTING POWER POLE
— — —	PROPOSED CENTERLINE	— — XXXX —	EXISTING CONTOUR LINE
— — —	PROPOSED EASEMENT LINE	XXXX	EXISTING SPOT ELEVATION
— — —	PROPERTY LINE	(E)XXXXXX	EXISTING UTILITY
— — —	PROJECT BOUNDARY	— — —	EXISTING PROPERTY LINE
~~~~~	SILT FENCE	⊕	EXISTING CENTERLINE MONUMENT

REVISION	DESCRIPTION	CHECKED	APPD.
REV. DATE	L.R. DATE	A 05-22-17	Permit Sanitary Interceptor Sewer, Add Lot 7 Block 3 & Lot 1 Block 4
REV. DATE	L.R. DATE	B 05-22-17	revised Hidden Valley Ct. & Ek Run Ct. to one connected street
REV. DATE	L.R. DATE	AB 10-22-17	Revised comments dated 4-25-2017



ENGINEER REGISTERED	LAND SURVEYOR ON DUTY	PE
# 2102	REV. DATE	05-22-17
Job # 1650	DATE	05-03-17
Sheet CO	TIME	1650-C0
DRAWING #		

### PUBLIC IMPROVEMENT QUANTITIES

1. Mobilization	Lump Sum	11a. 8" Gate Valves	7 Each
2. Project Earthwork (street construction)	Lump Sum	11b. 12" Gate Valves	4 Each
3a. 8" Base Course	6,300 Sq. Yds	12a. 4.5" Conc. Sidewalk	12,000 S.F.
3b. 10" Base Course	3900 Sq. Yds	12b. Pedestrian Ramps	9 Each
4a. 3" Bituminous Pavement	7,890 Sq. Yds	12c. Conc. Driveway Approaches	3 Each
4b. 2-1/2" Bituminous Pavement	2,140 Sq. Yds	13. Utilities Trenching	2200 L.F.
5a. Conc. Rolled Curb	2,225 L.F.	14. Utilities Conduit	Lump Sum
5b. Conc. High Back Curb	1,390 L.F.	15. Fire Hydrants	4 Each
6. Catch Basins	10 Each	16. Water Services (copper piping)	23 Each
7a. 12" HDPE Storm Drain	520 L.F.	17. Temp. Stormwater Infiltration Basin	Lump Sum
7b. 18" HDPE Storm Drain	920 L.F.	18. Stormwater Detention Basin & Access Rd.	Lump Sum
7c. 4" Dia. Storm Sewer Manholes	60 V.F.	19. Traffic Control	Lump Sum
8a. 18" PVC Sanitary Sewer	742 L.F.	20. Fabricated Bollards	8 Each
8b. 4" Sanitary Sewer Services	840 L.F.	21. Constr. Stormwater Mangmt.	Lump Sum
9. 4" Dia. San. Sewer MH	20 V.F.		
10a. 8" C900 PVC Water Main	1,640 L.F.		
10b. 12" C900 PVC Water Main	710 L.F.		

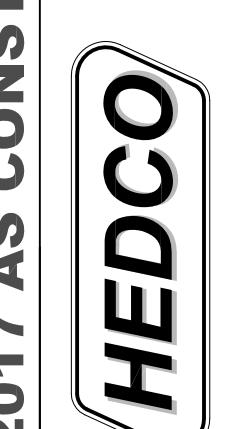
AS CONSTRUCTED *Jack S. Hammond, PE*  
HEDCO, Inc.  
528 Bryden Ave.  
Lewiston, ID 83501  
10/30/17

**THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA**  
**COVER SHEET**  
**RPL DEVELOPMENT CO., INC.**  
**LEWISTON, IDAHO**

10-30-2017 AS CONSTRUCTED SET

### SHEET INDEX

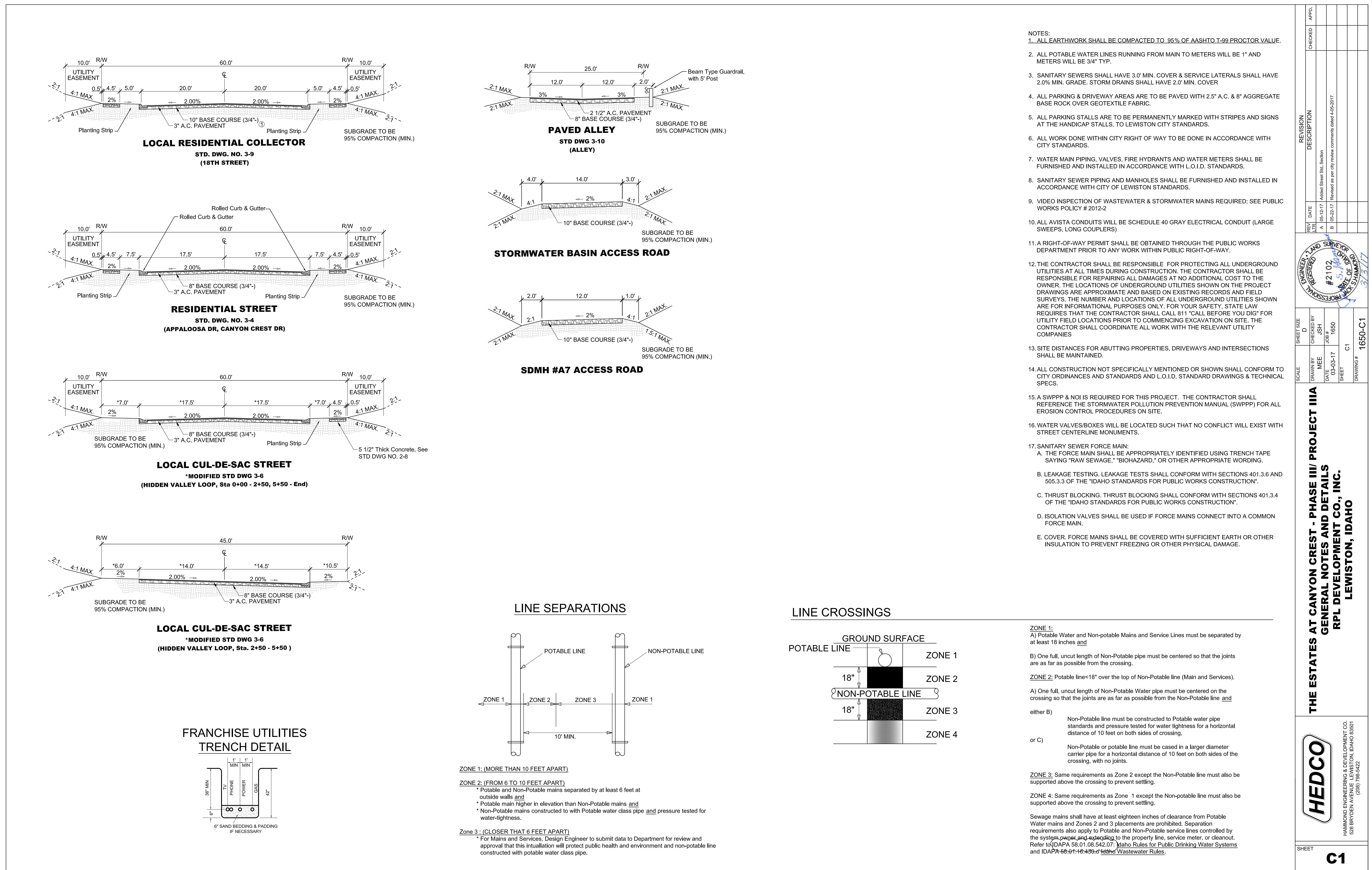
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- C2 EXISTING SITE CONDITIONS
- C3 CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN
- C4 SITE DEVELOPMENT PLAN
- C5 SITE GRADING PLAN
- C6 FRANCHISE UTILITIES PLAN
- C7 STORMWATER DETENTION BASIN
- C8 18TH STREET PLAN & PROFILE
- C9 HIDDEN VALLEY LOOP PLAN & PROFILE
- C10 HIDDEN VALLEY LOOP INTERSECTION
- C11 APPALOOSA DRIVE PLAN & PROFILE
- C12 CANYON CREST DRIVE PLAN & PROFILE
- C13 ALLEY PLAN & PROFILE
- C14 MAINTENANCE ACCESS ROAD PLAN & PROFILE
- C15 18TH STREET STREET X-SECTIONS
- C16 HIDDEN VALLEY LOOP X-SECTIONS
- C17 HIDDEN VALLEY LOOP X-SECTIONS
- C18 APPALOOSA DRIVE X-SECTIONS
- C19 CANYON CREST DRIVE X-SECTIONS
- C20 ALLEY X-SECTIONS
- C21 MAINTENANCE ACCESS ROAD X-SECTIONS
- C22 STANDARD DRAWINGS
- C23 "
- C24 "
- C25 "
- C26 "

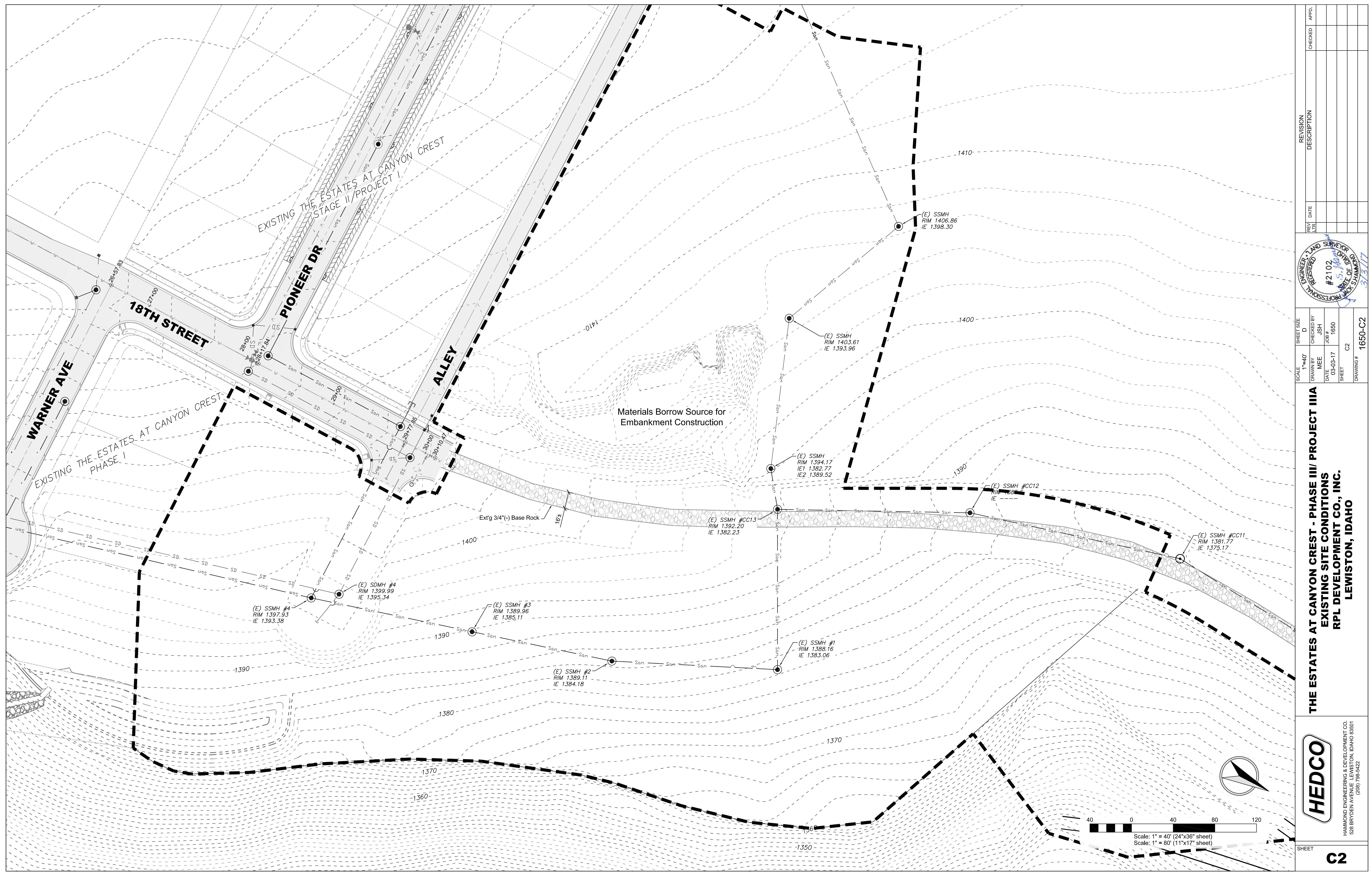


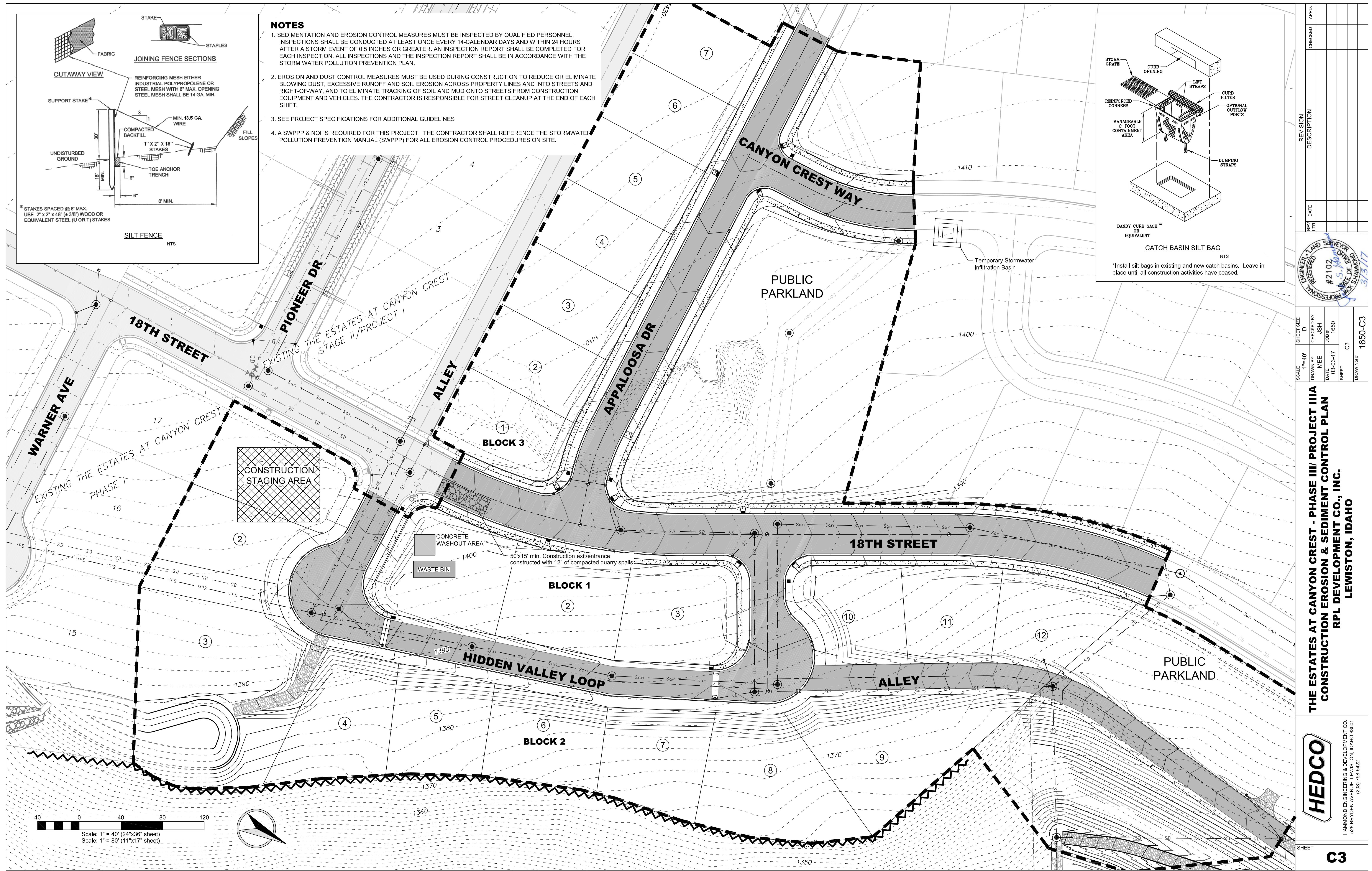
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528 BRYDEN AVENUE, LEWISTON, IDAHO 83501  
(208) 798-5422

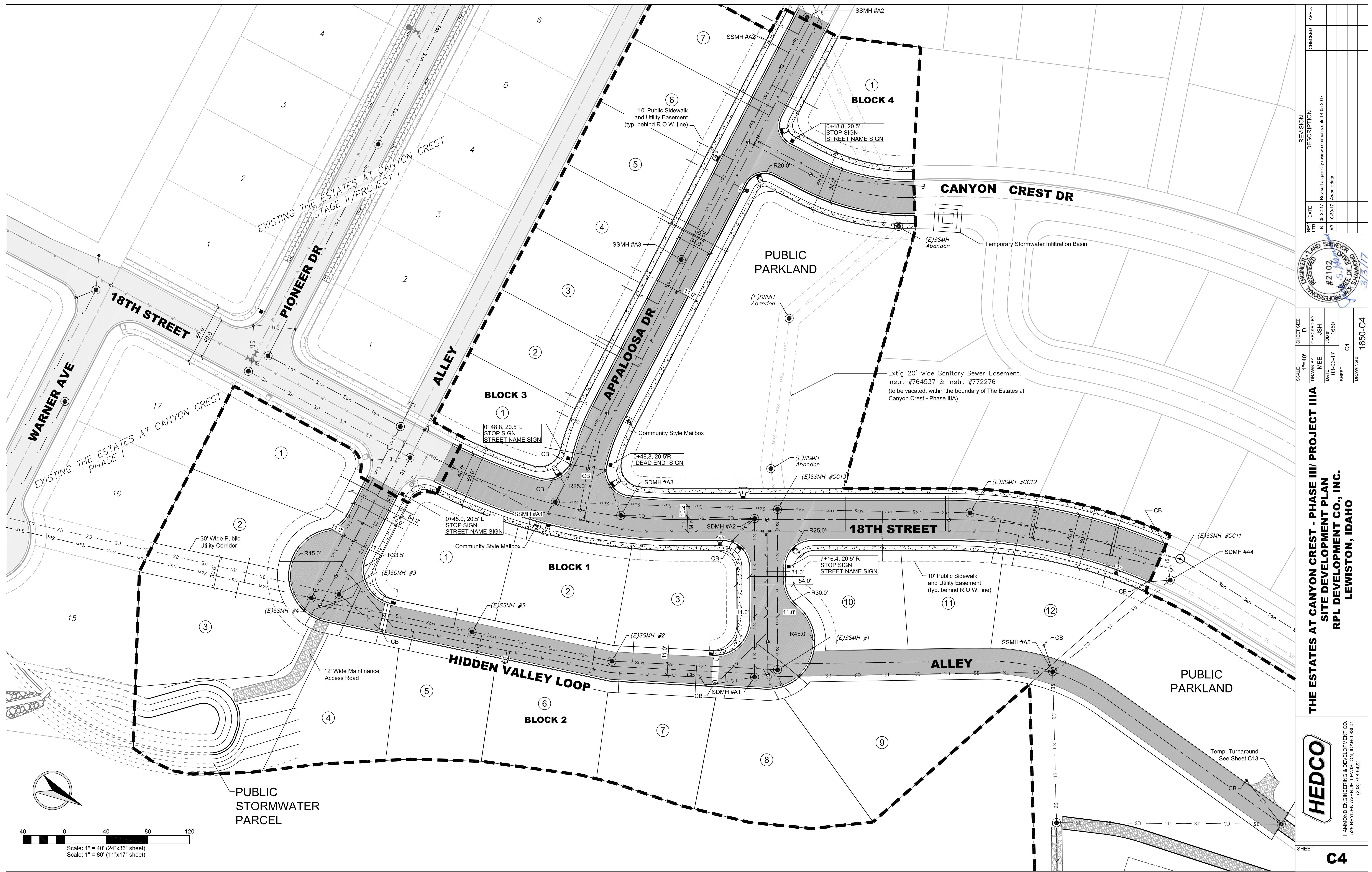
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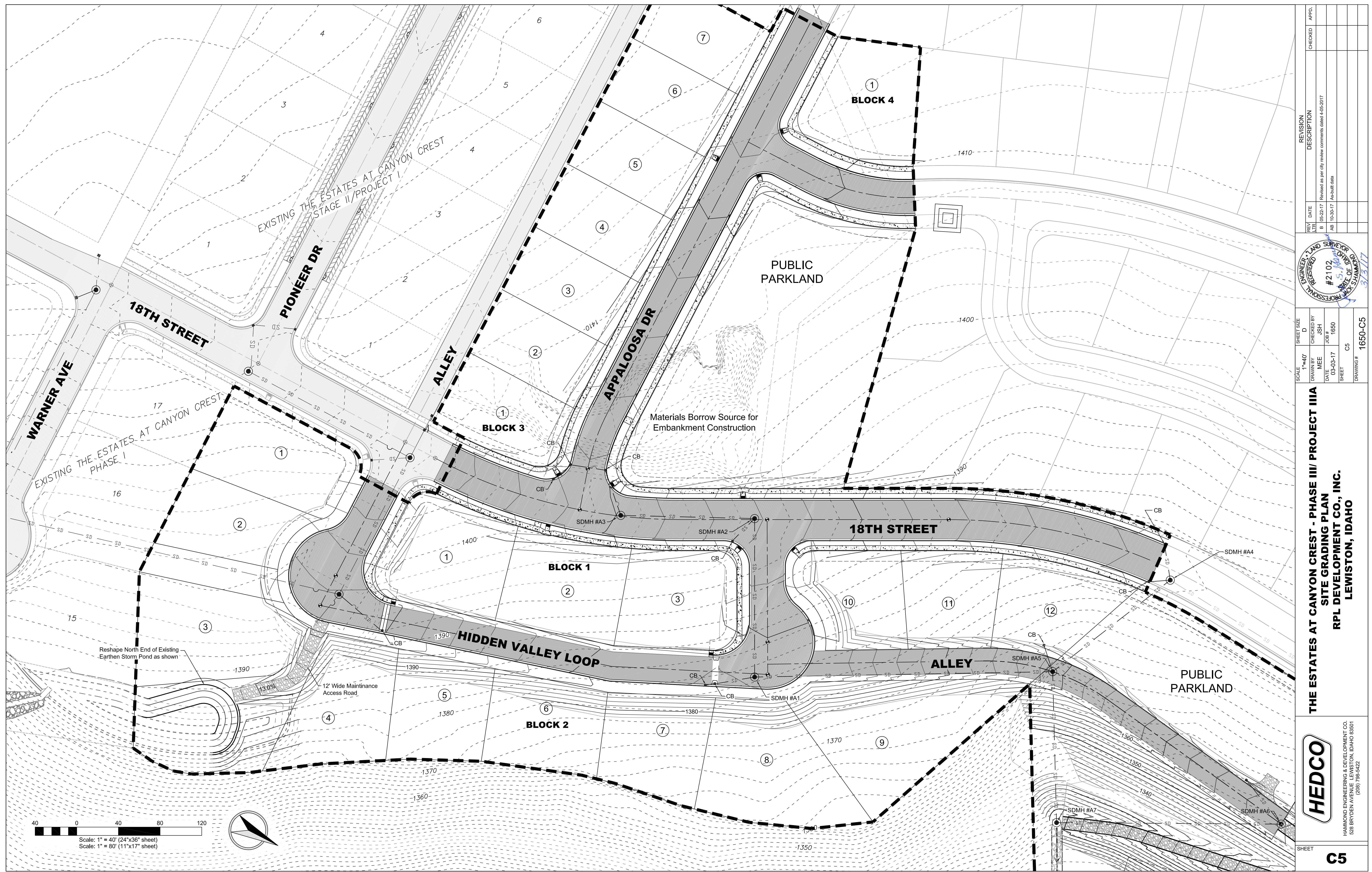
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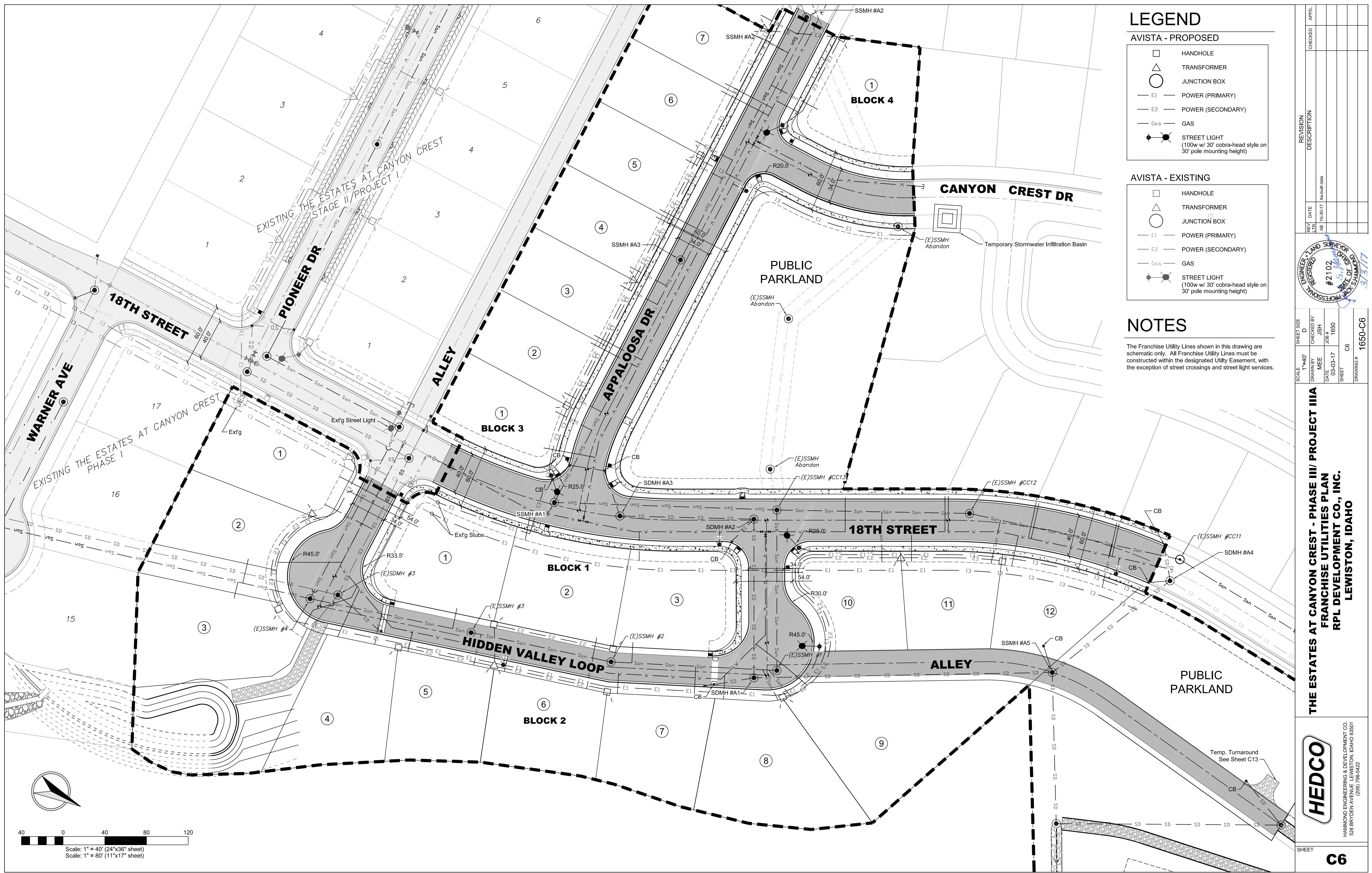


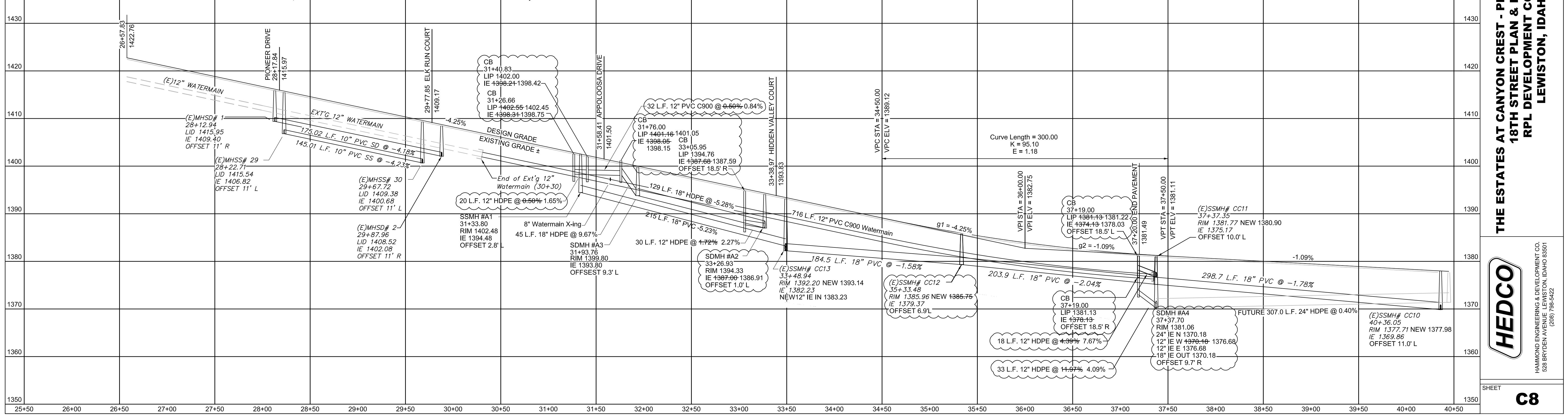
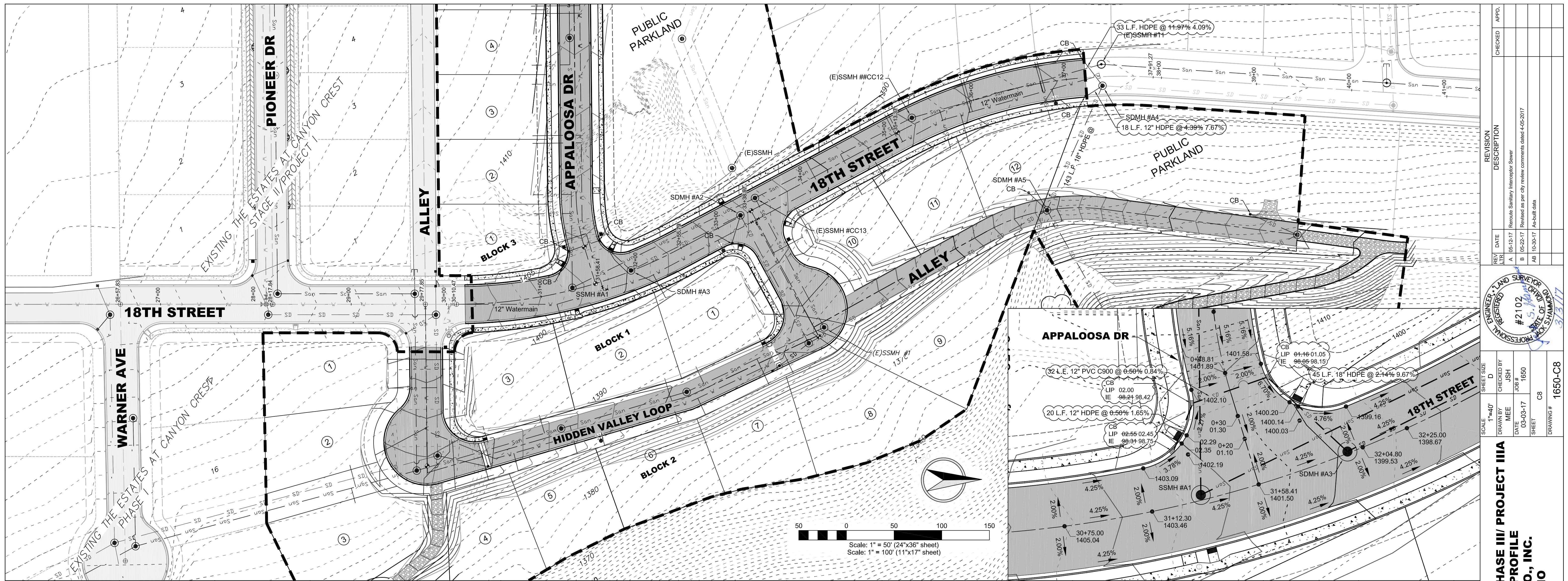






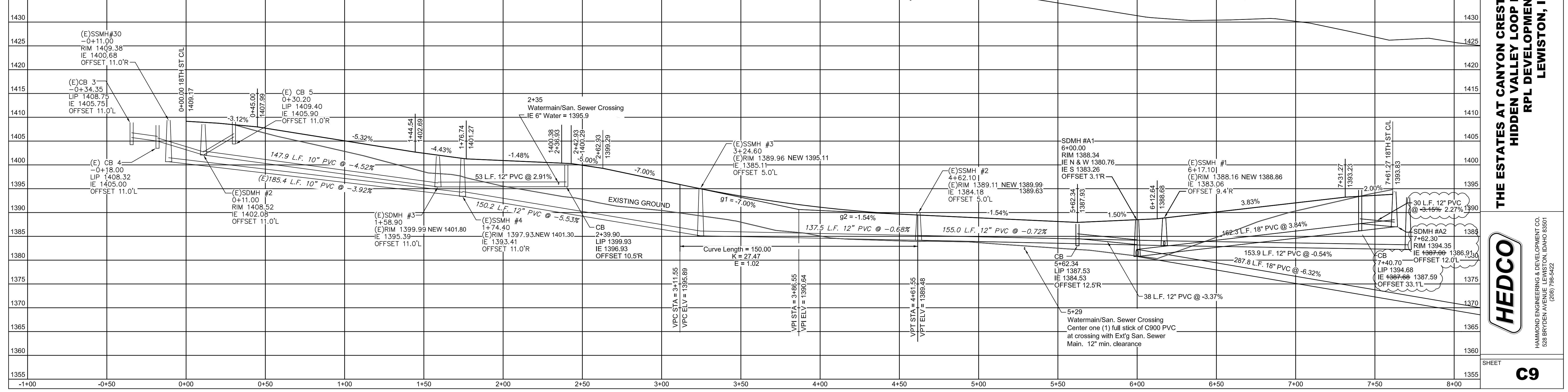
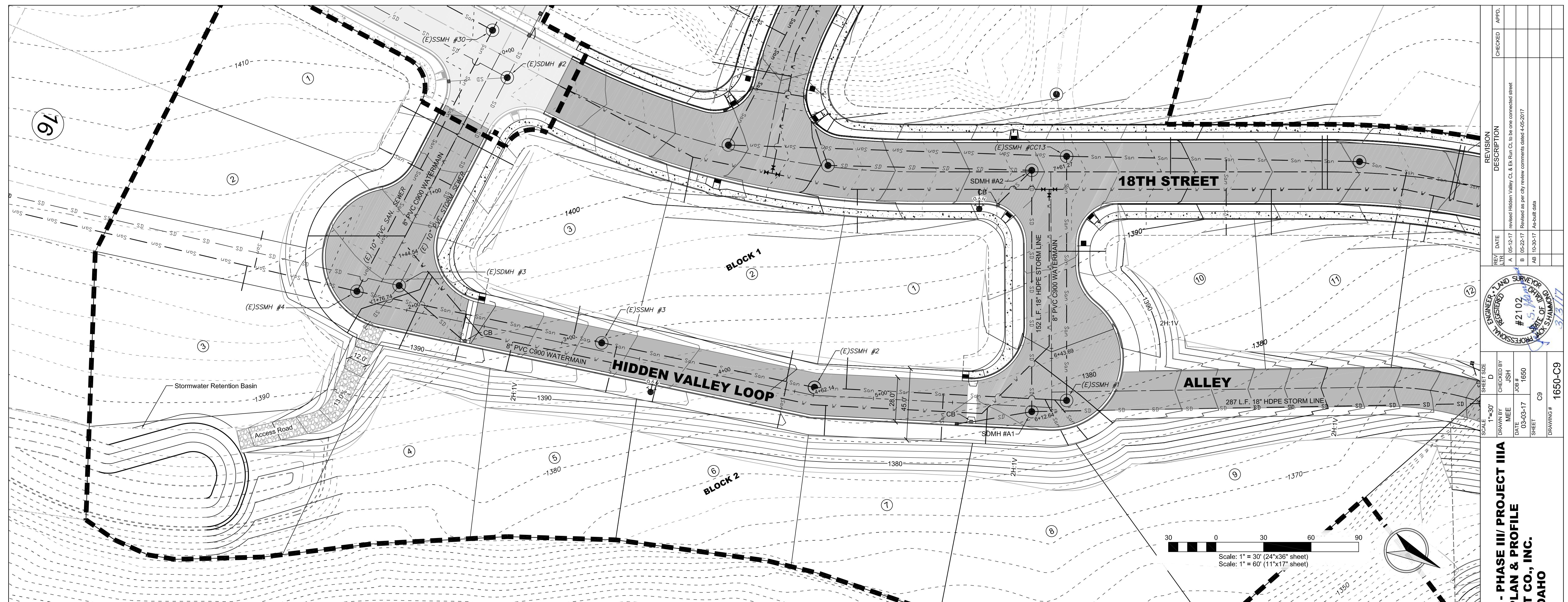






REVISION	DESCRIPTION	CHECKED APPD.
REV DATE	A 05-12-17 Permit Sanitary Interceptor Sewer B 05-22-17 Revised as per city review comments dated 4-25-17 AB 10-30-17 As-built data	

ENGINEERED LAND SURVEYOR ON DRAFT  
PROFESSIONAL REGISTERED STATE OF  
IDAHO  
MACK SHAMMOND  
S-1012  
373317



REVISION	DESCRIPTION	CHECKED	APPROVED
REV DATE			
A 05-12-17	revised Hidden Valley Cl & EK Run Cl to be one connected street		
B 05-22-17	Revised as per city review comments dated 4-25-17		
AB 10-3-17	As-built data		

ENGINEER LAND SURVEYOR CHARTS  
REGISTERED PROFESSIONAL STATE OF  
IDAHO  
#2102  
S. J. HAMM  
STATE OF  
IDAHO  
3/3/17

SHEET SIZE D  
DRAWN BY ISH  
JOB # 1650  
DATE 05-03-17  
SHEET C9  
DRAWING # 1650-C9

SCALE 1"=30'

1"=30'

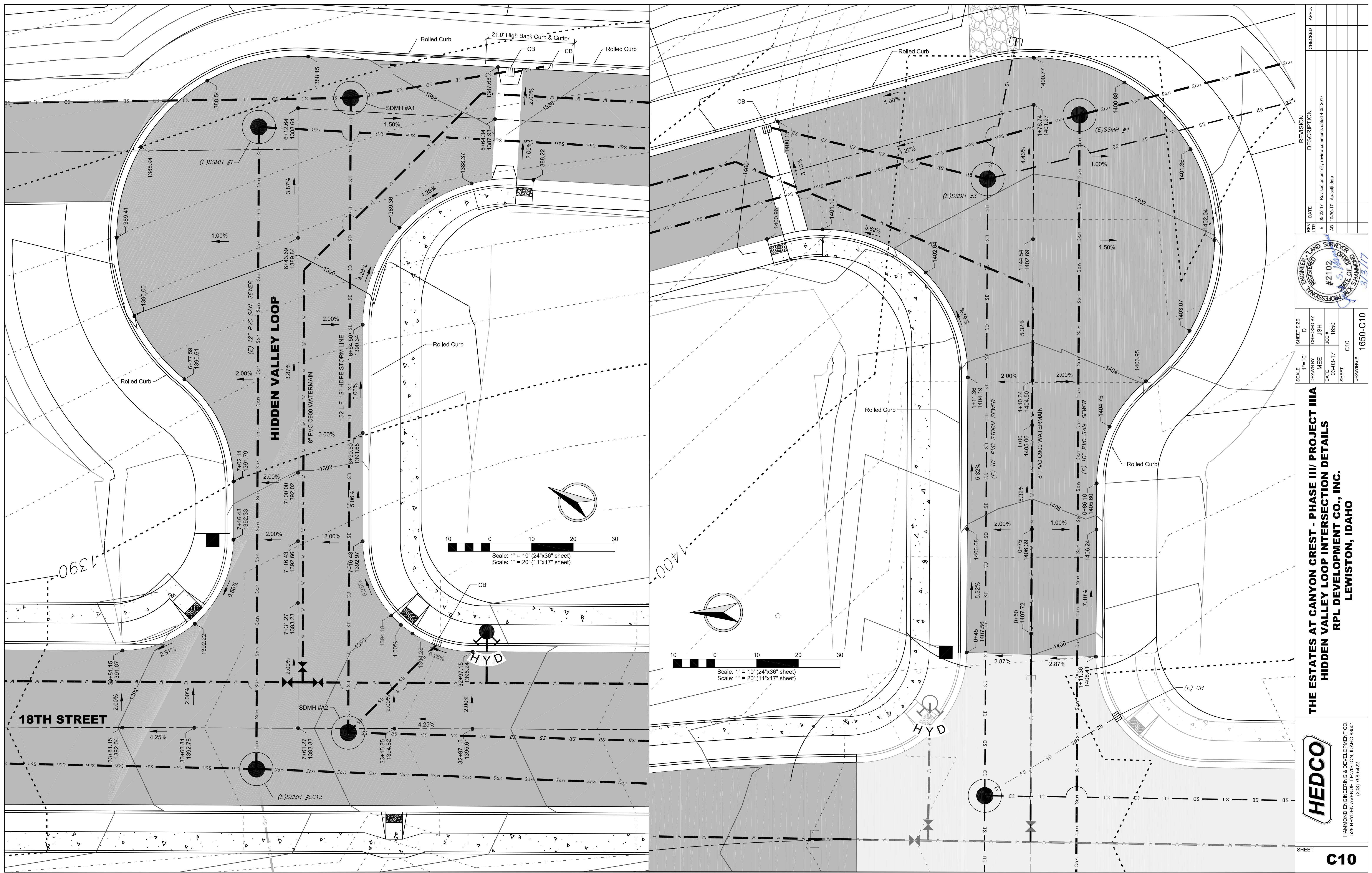
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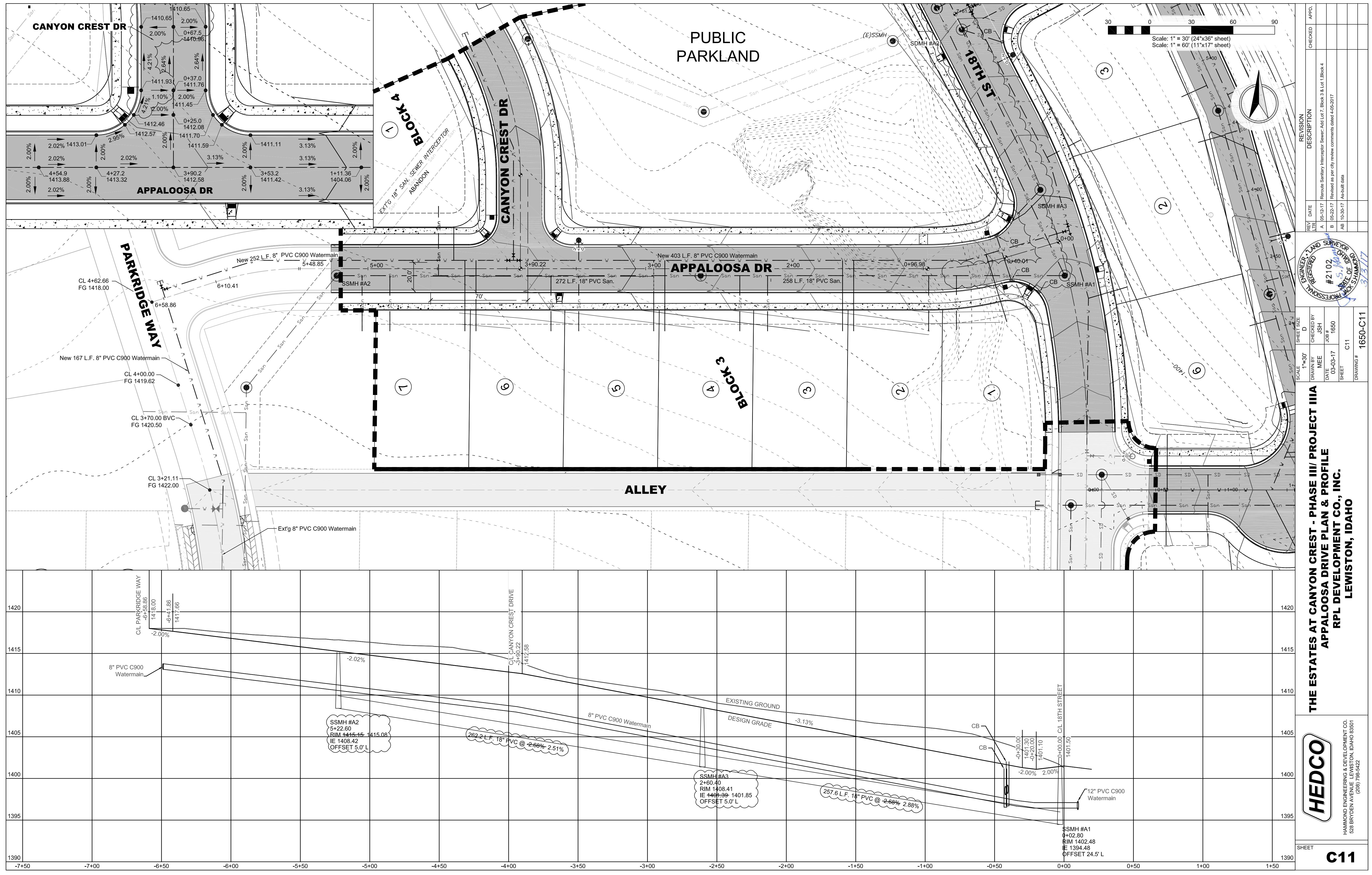
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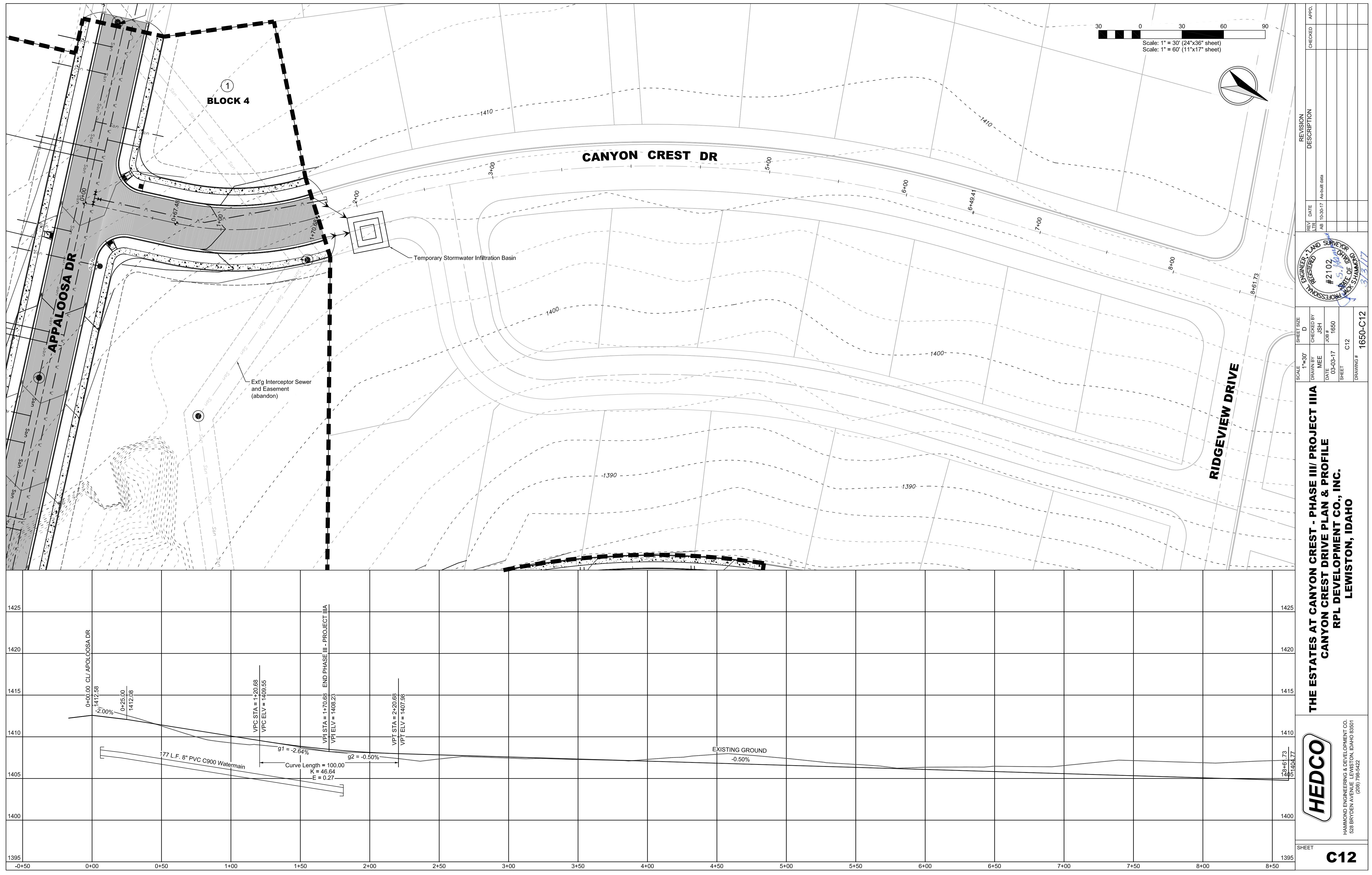
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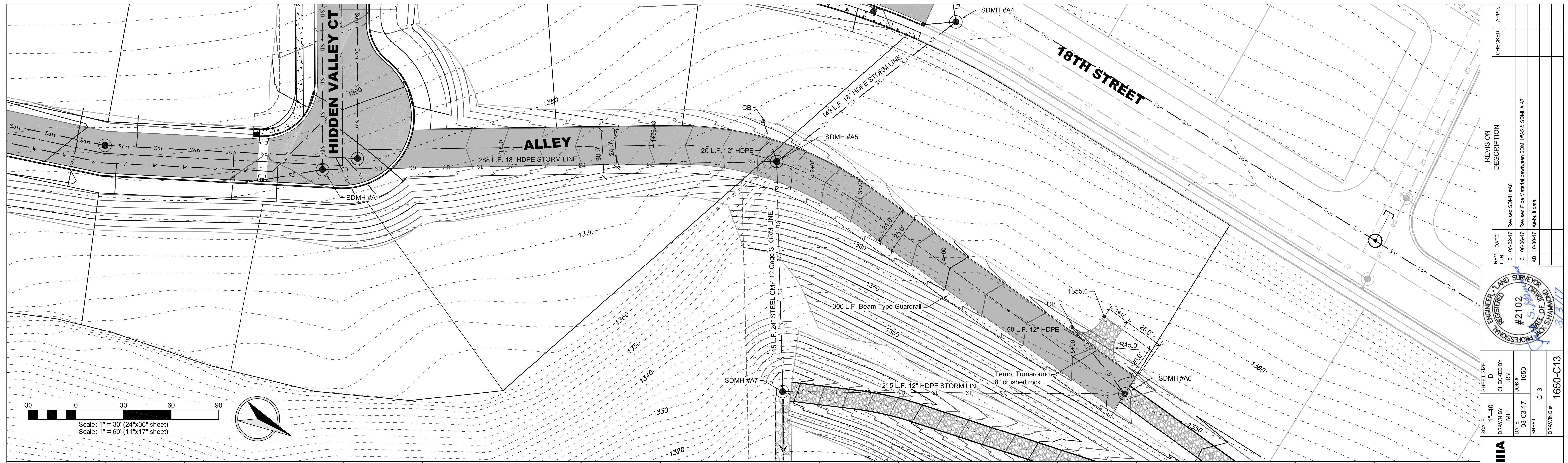
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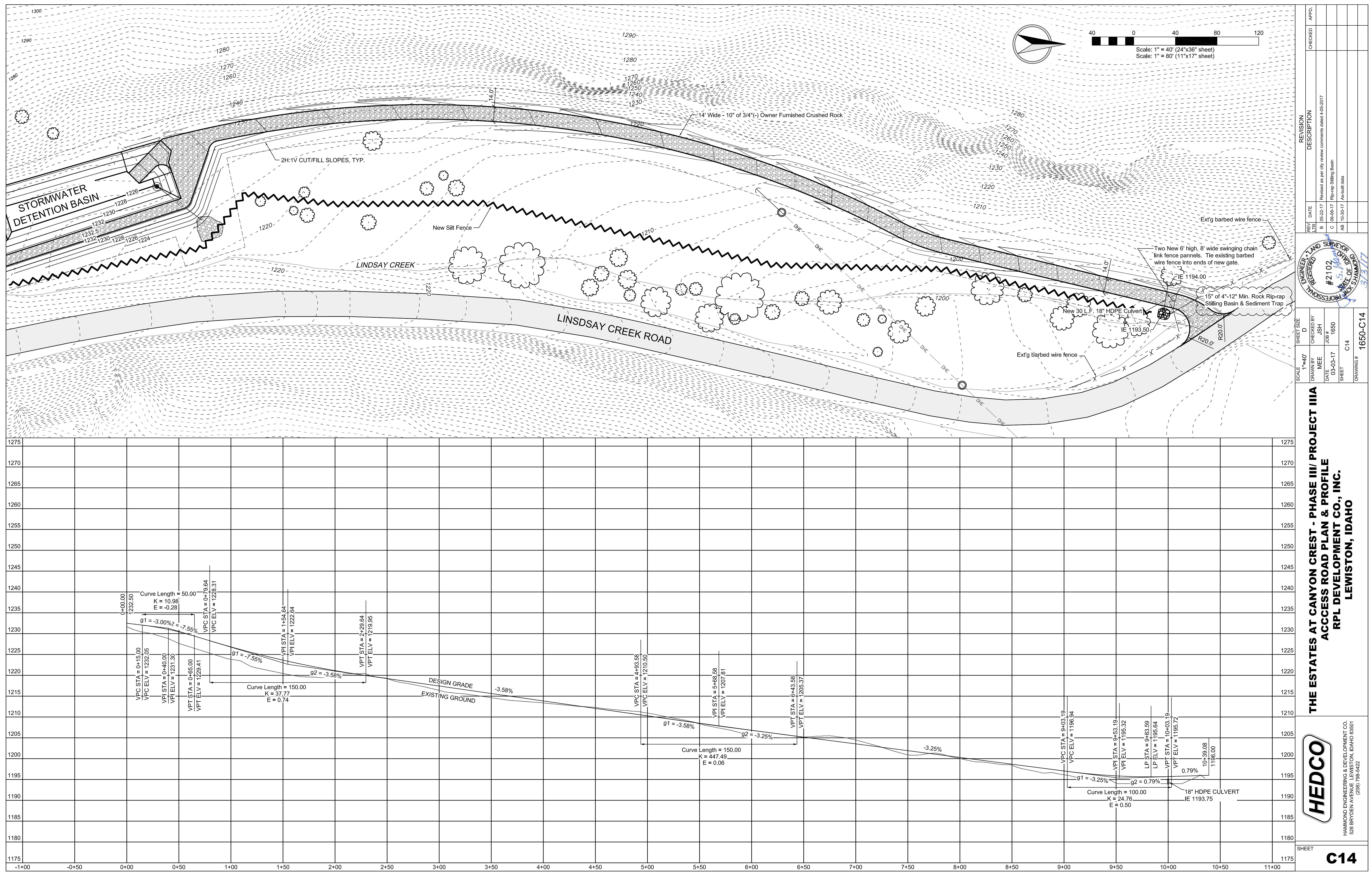


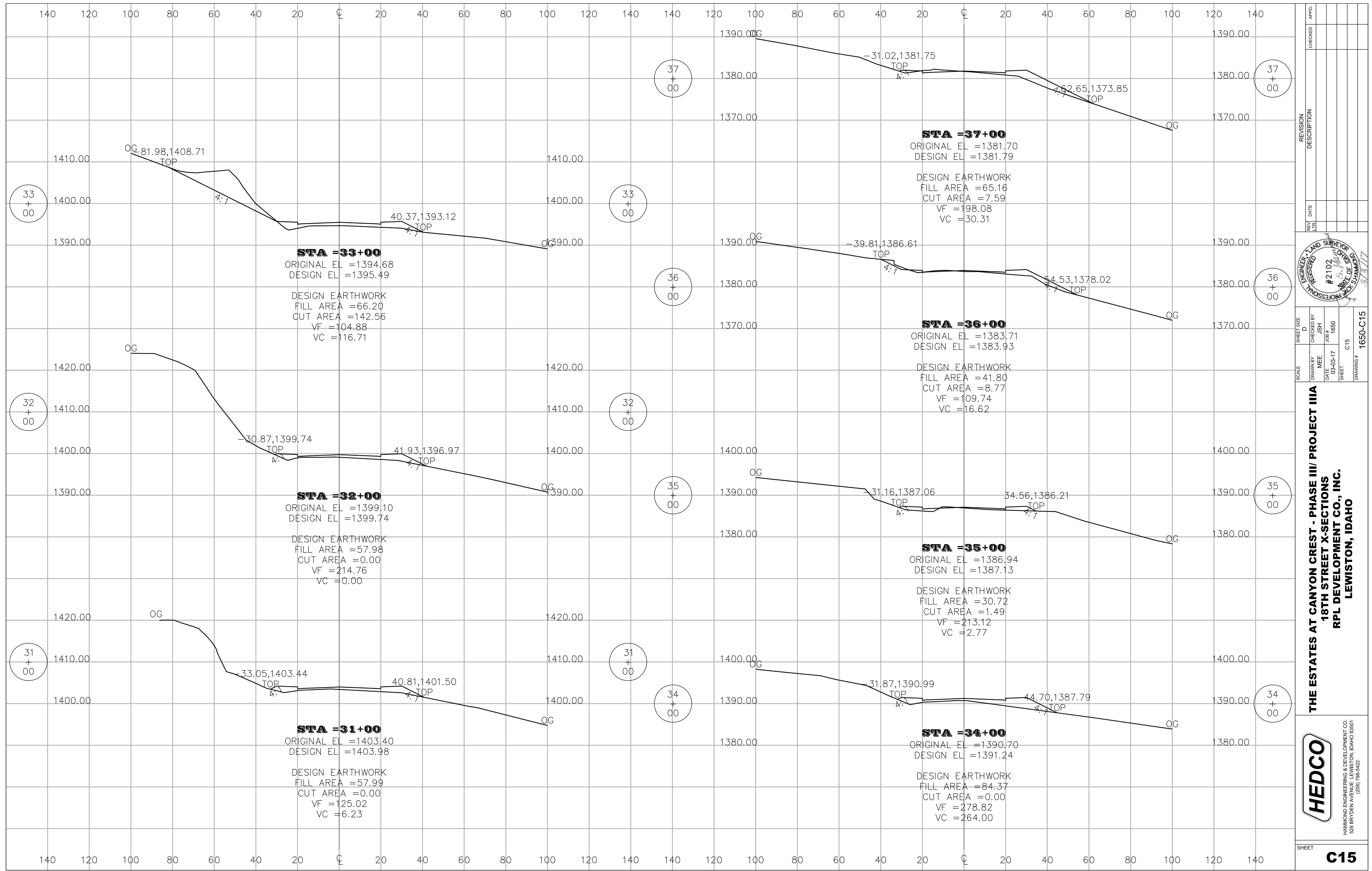


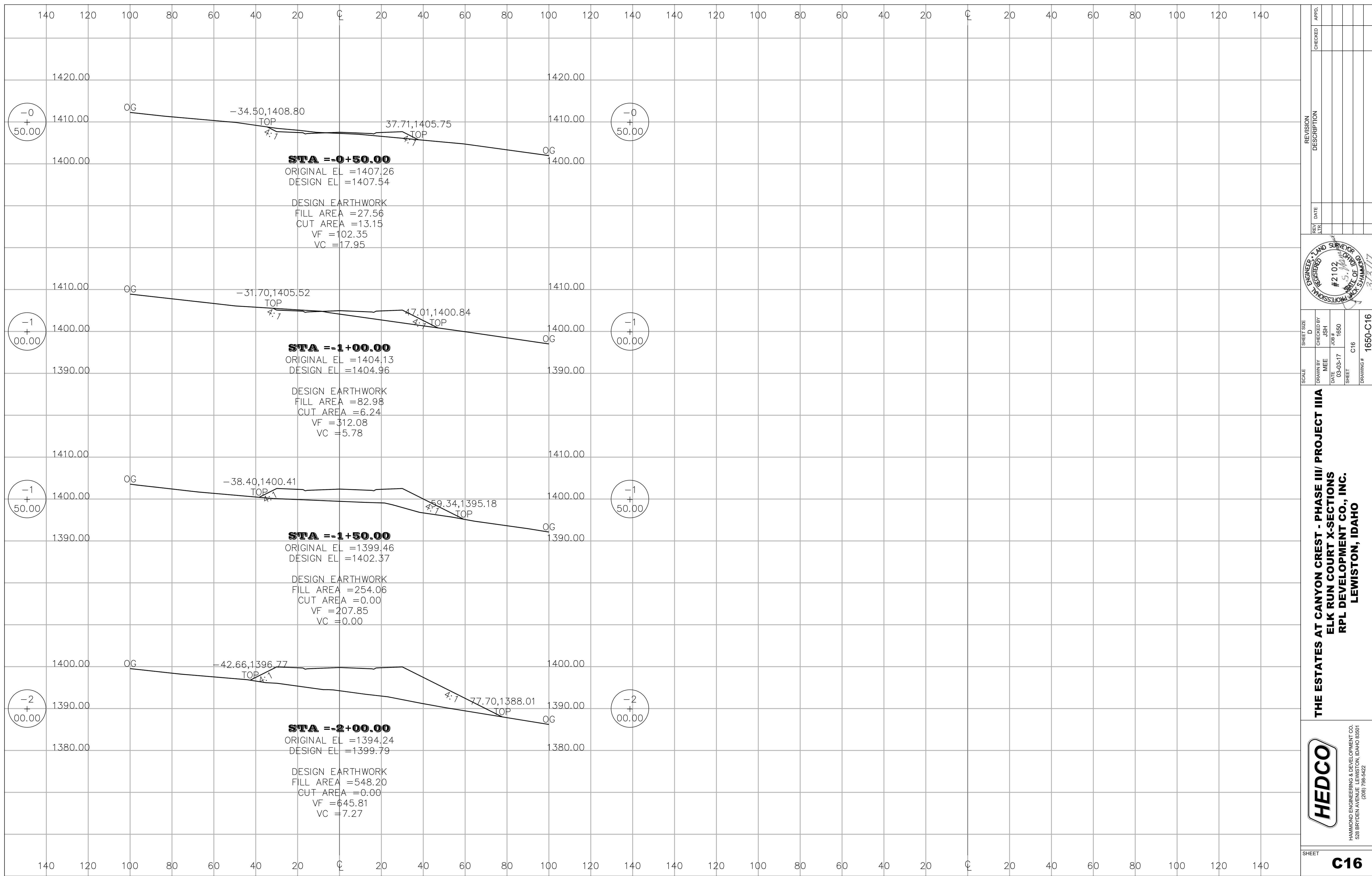
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ALLEY PLAN & PROFILE  
RPL DEVELOPMENT CO., INC.  
LEWISTON, IDAHO**

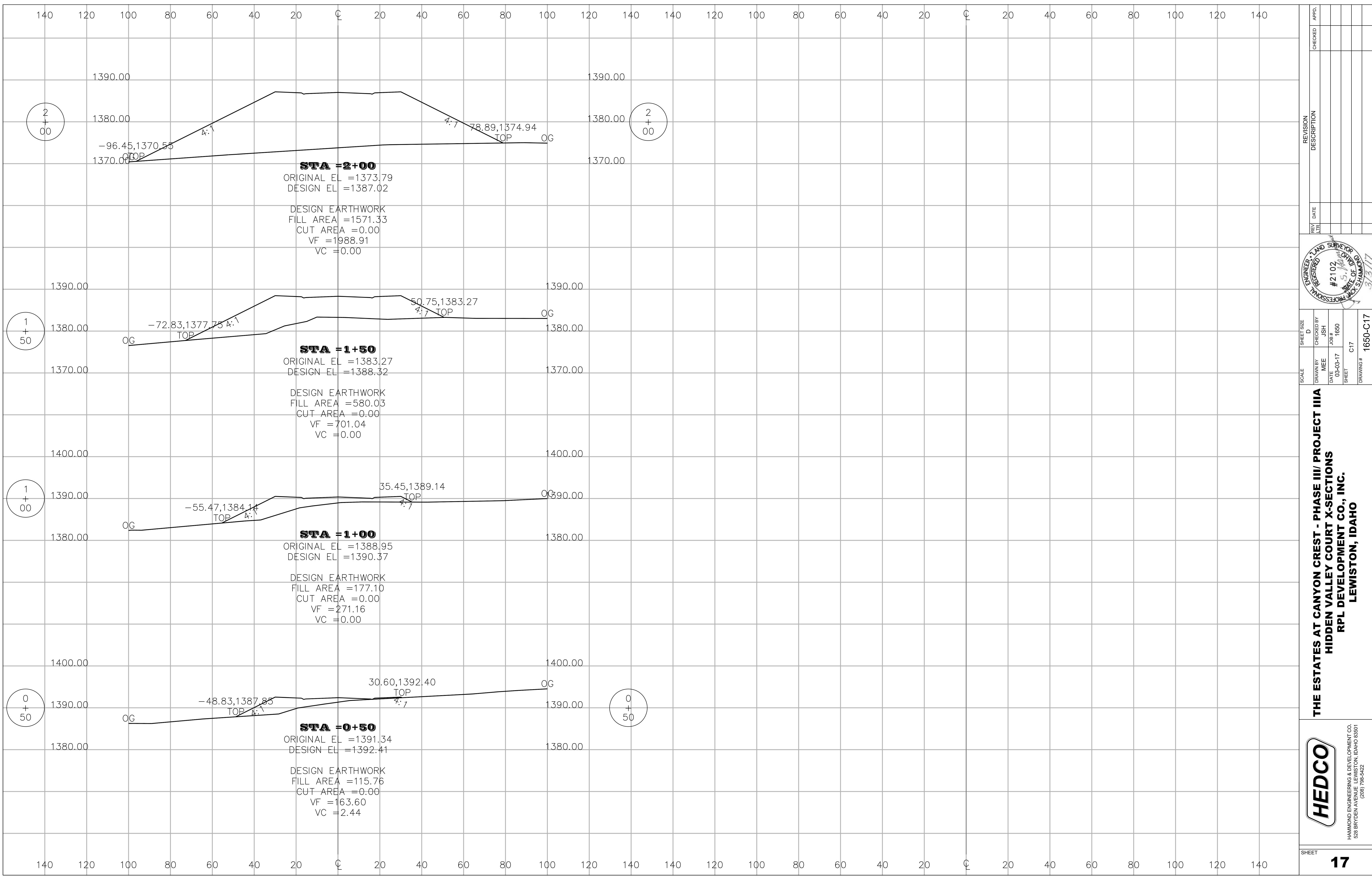
**HEDCO**  
OND ENGINEERING & DEVELOPMENT C  
RYDEN AVENUE LEWISTON, IDAHO 835  
422-7035 5-22

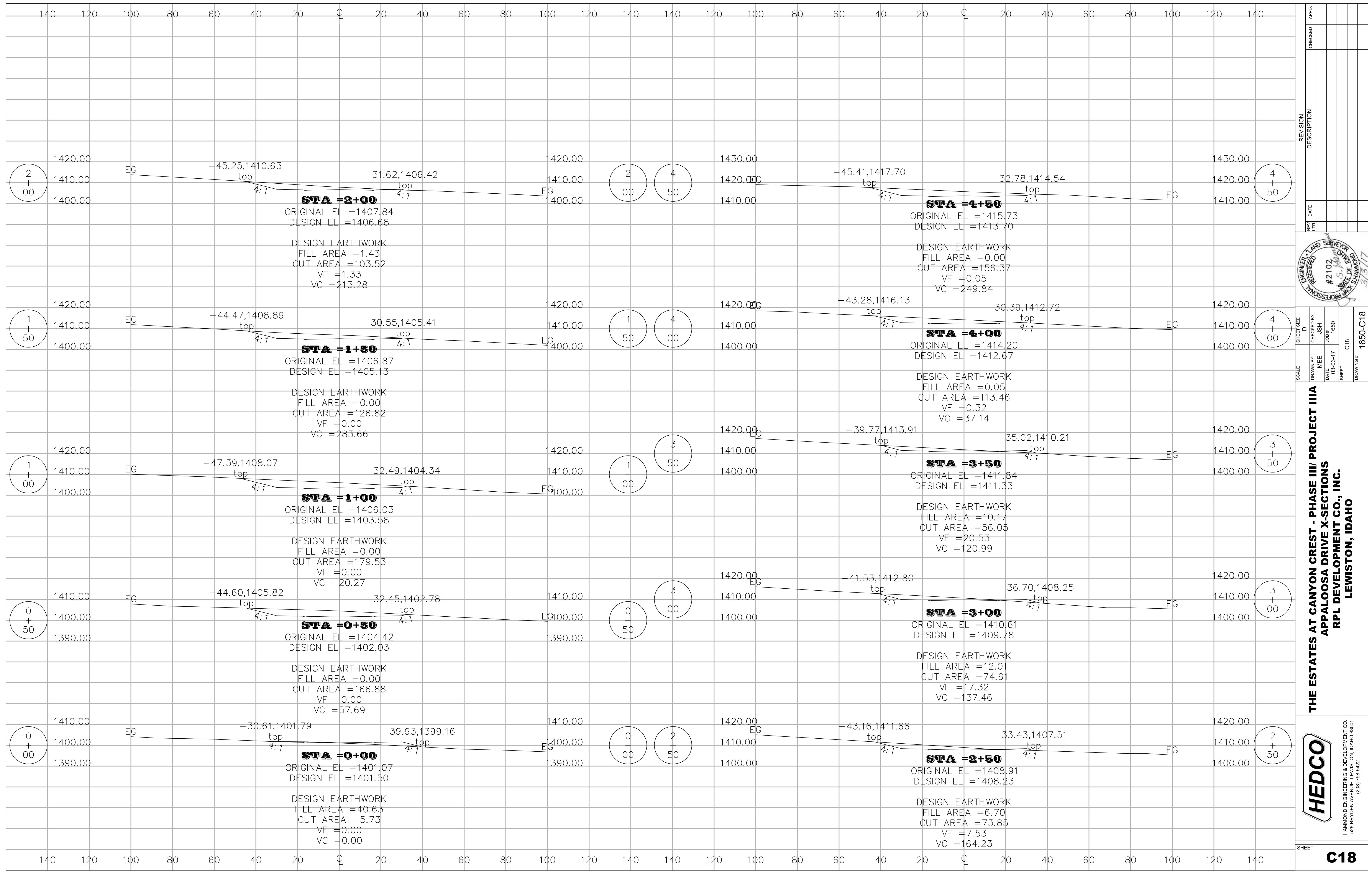
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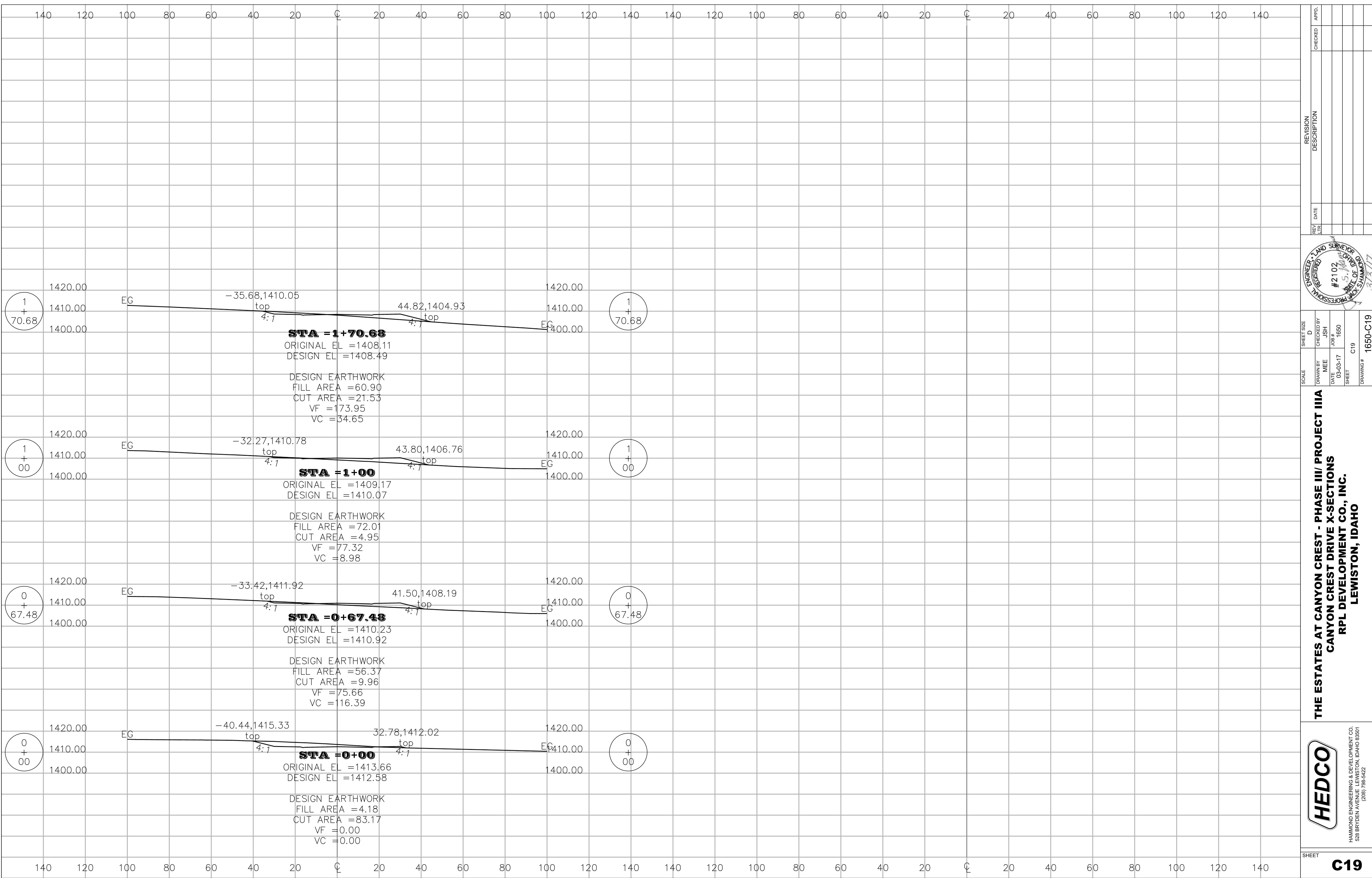


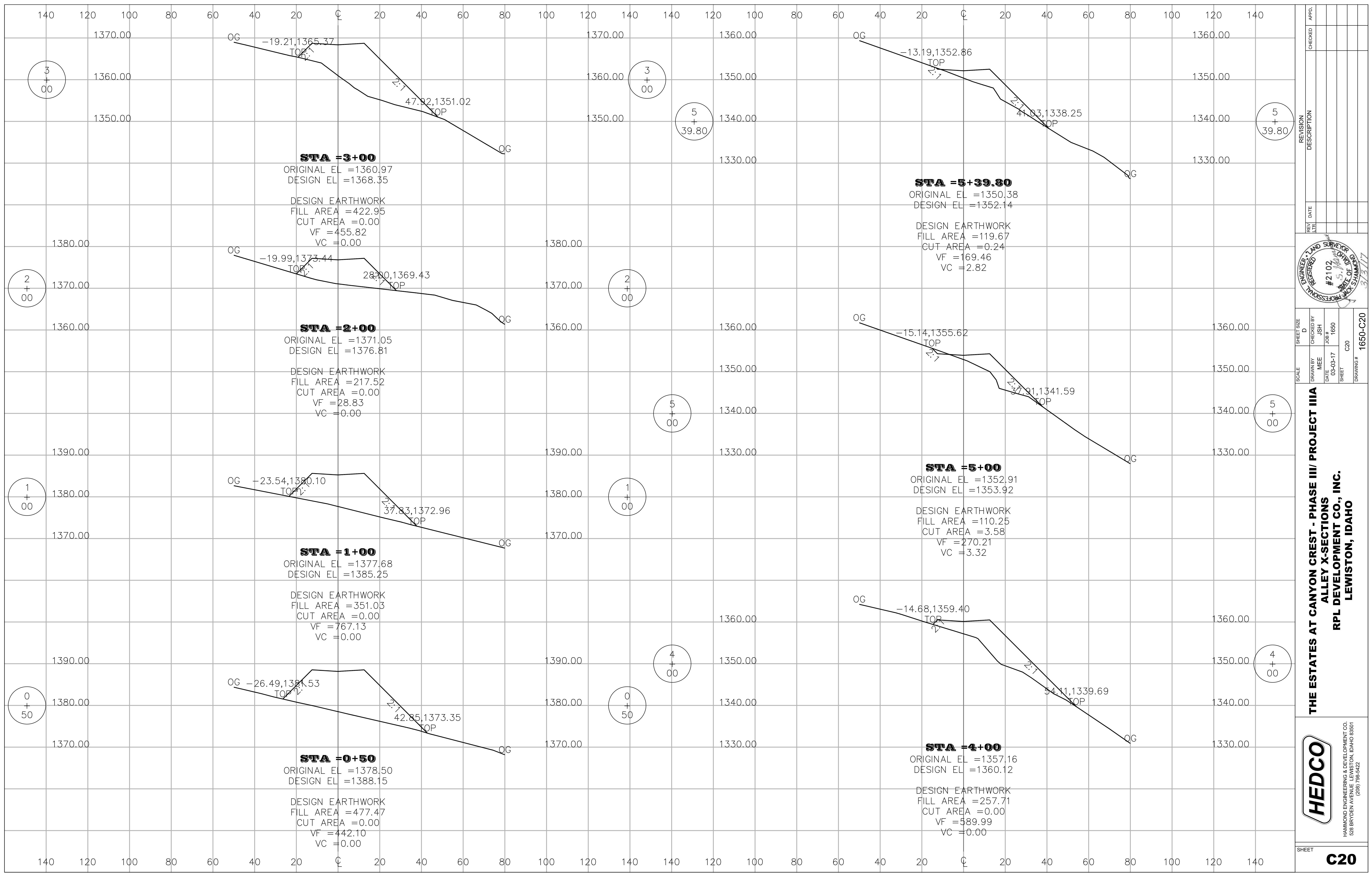












APPROVED	REVISION
SUPERVISOR	DESCRIPTION
DATE	REV. DATE
REGISTRATION NO.	JOB #
STATE OF	1650
BY	03-03-17
FOR	SHEET
ENGINEER	C20
REGISTERED LAND SURVEYOR	DRAWING #
STATE OF	1650-C20

Scale D

Sheet Size

Drawn by MEE

Checked by ISH

Date 1650

Job # 1650

Sheet C20

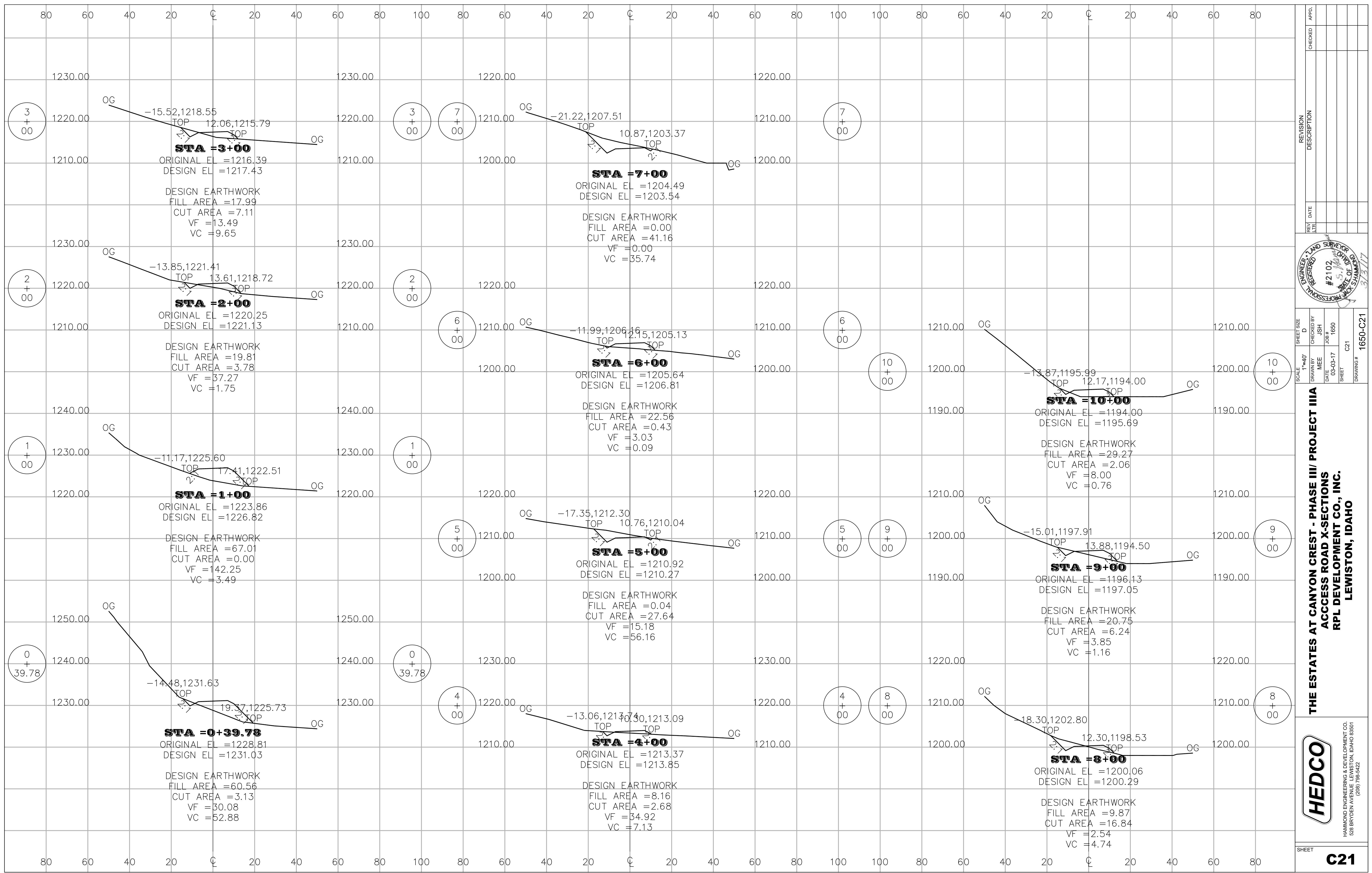
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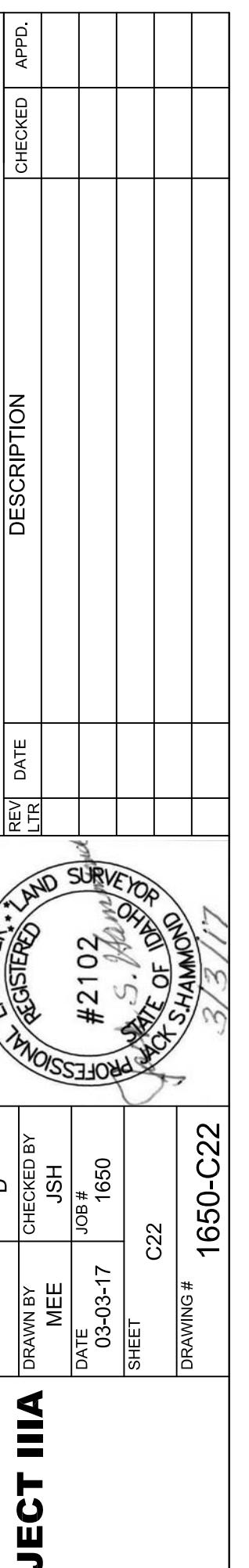
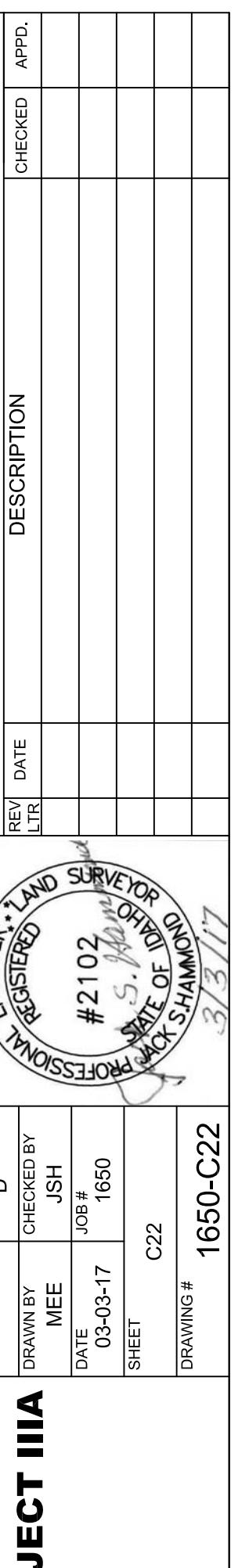
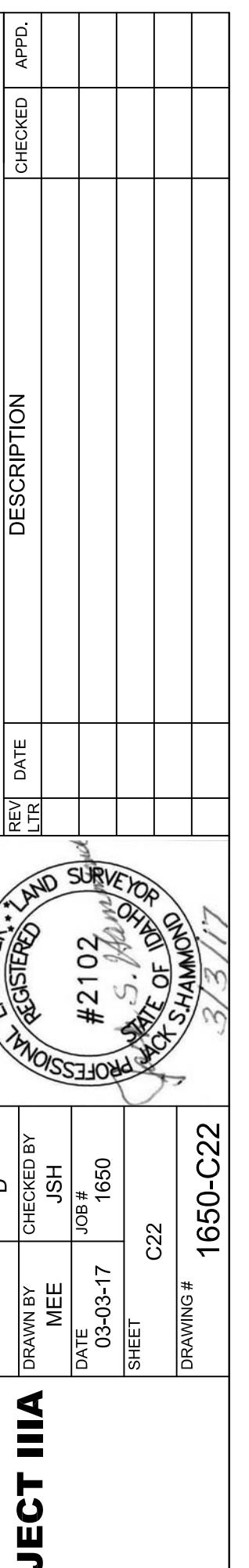
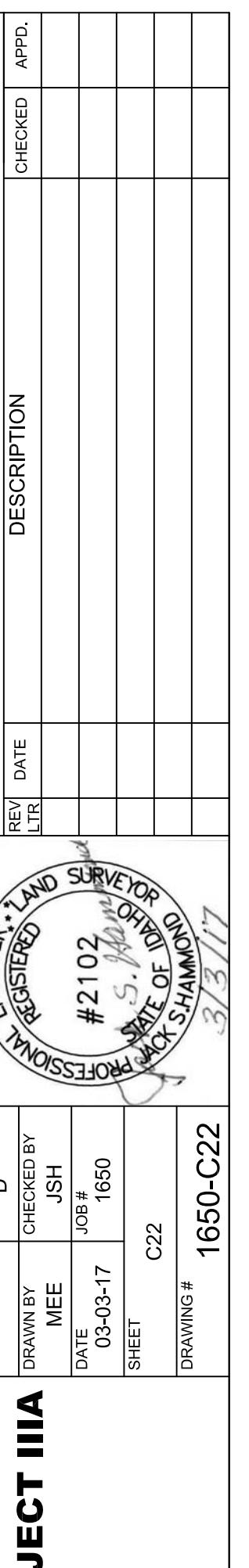
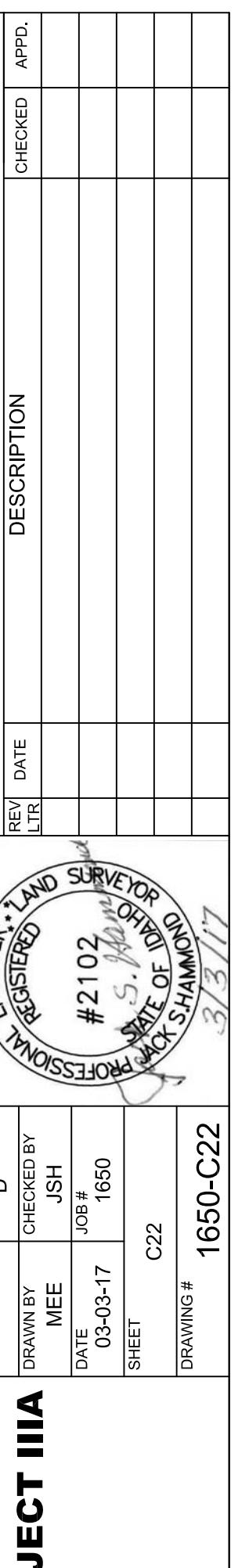
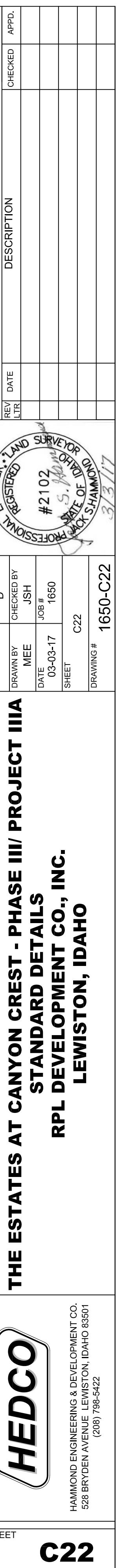
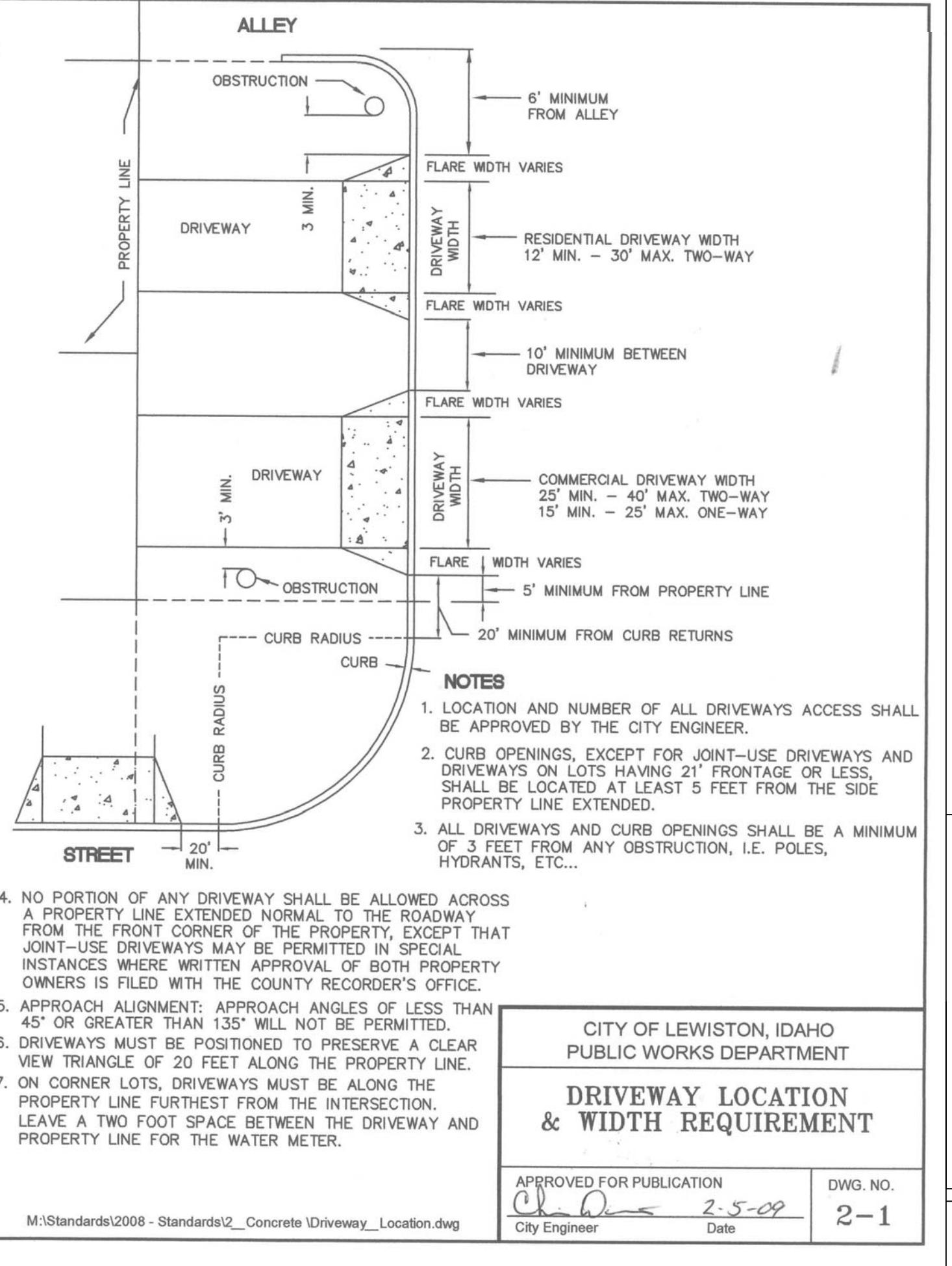
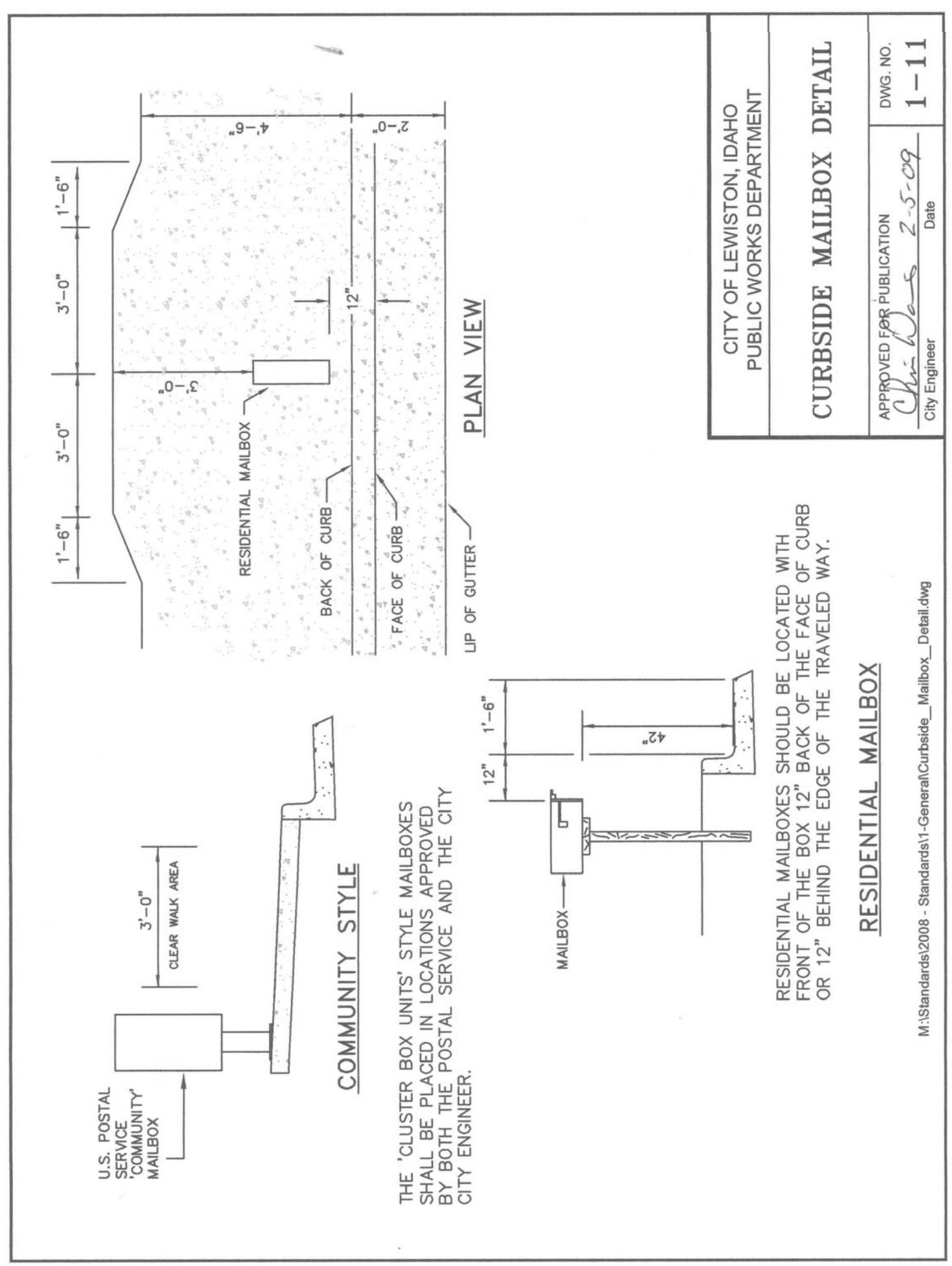
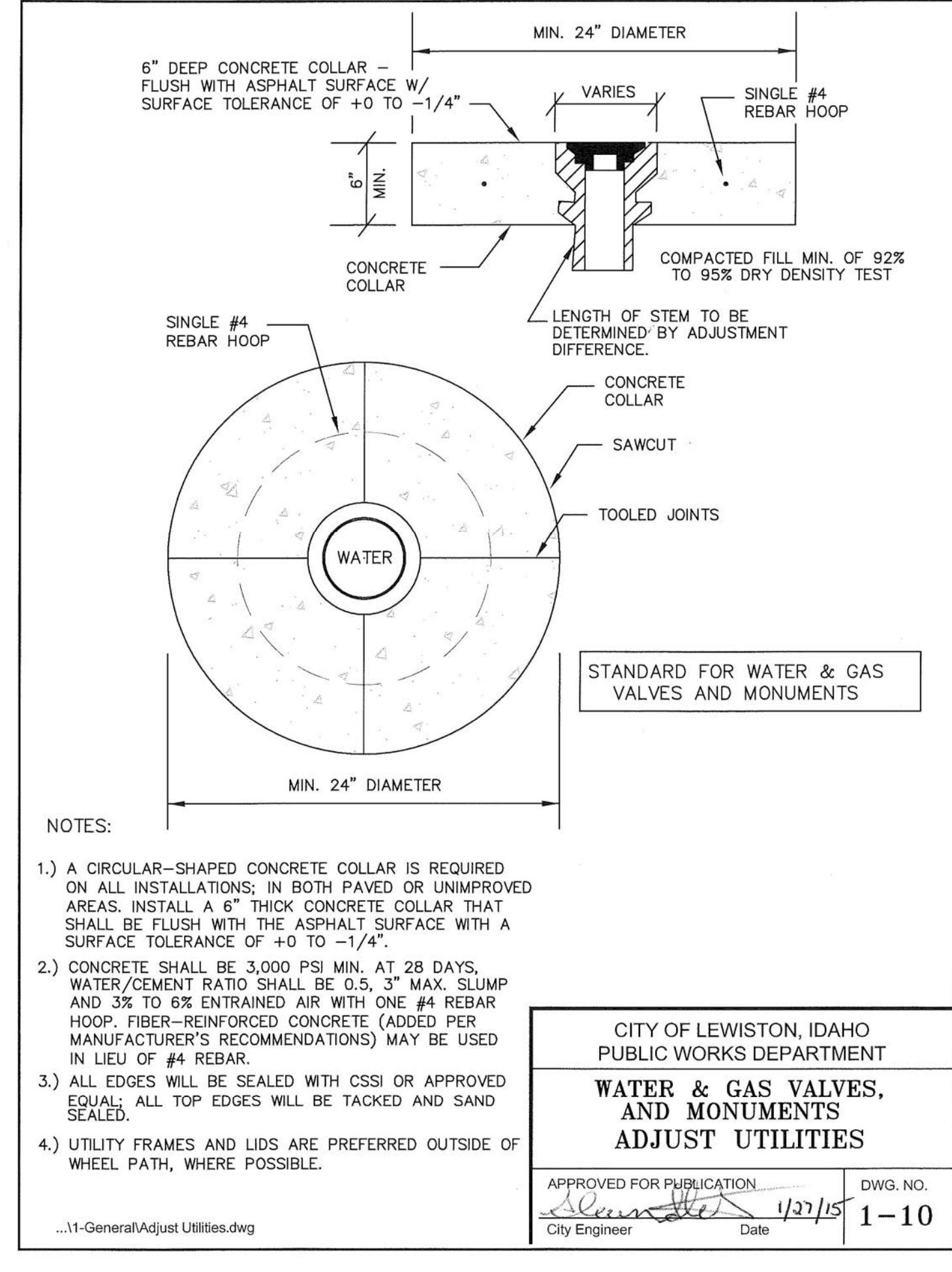
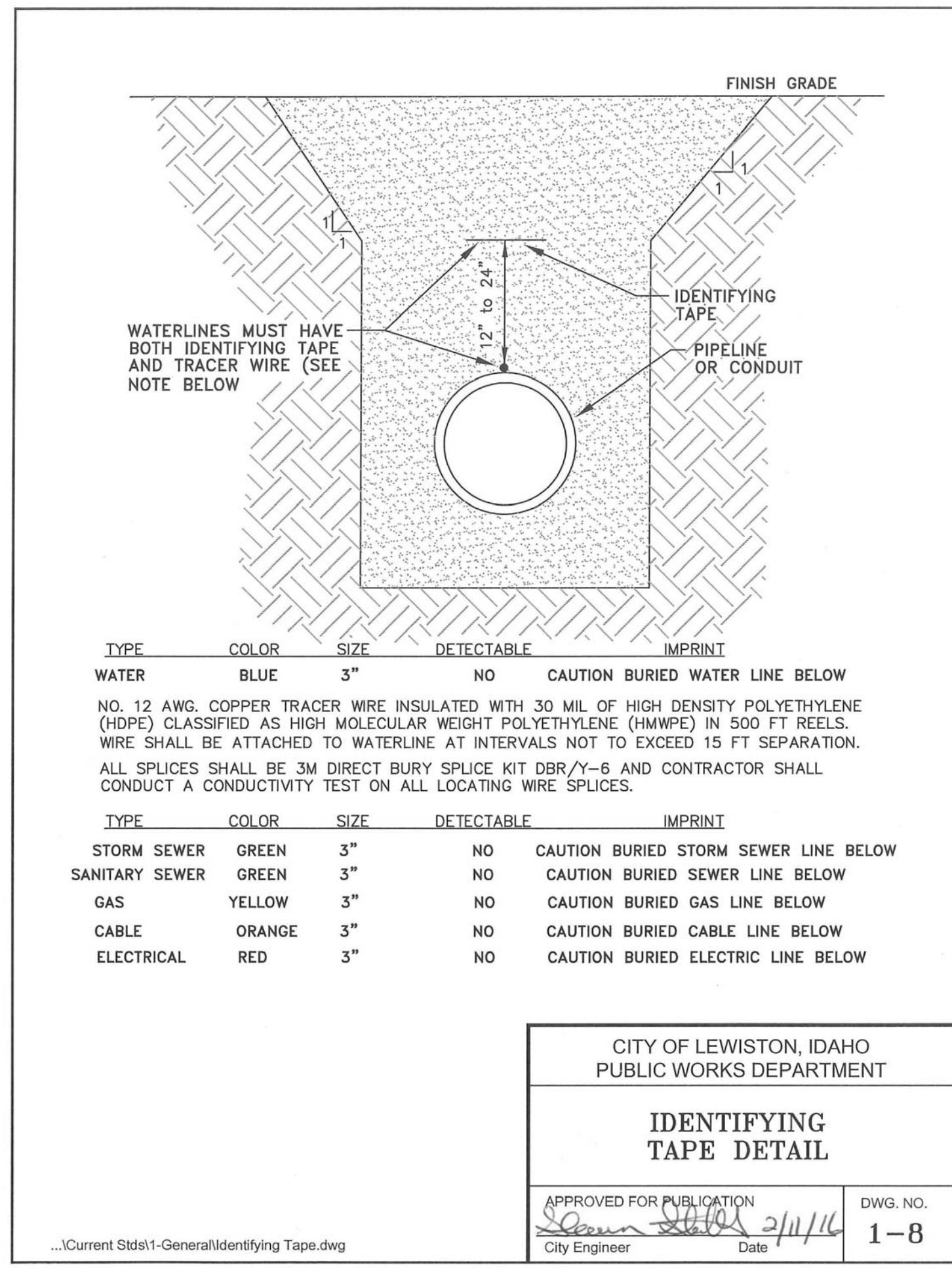
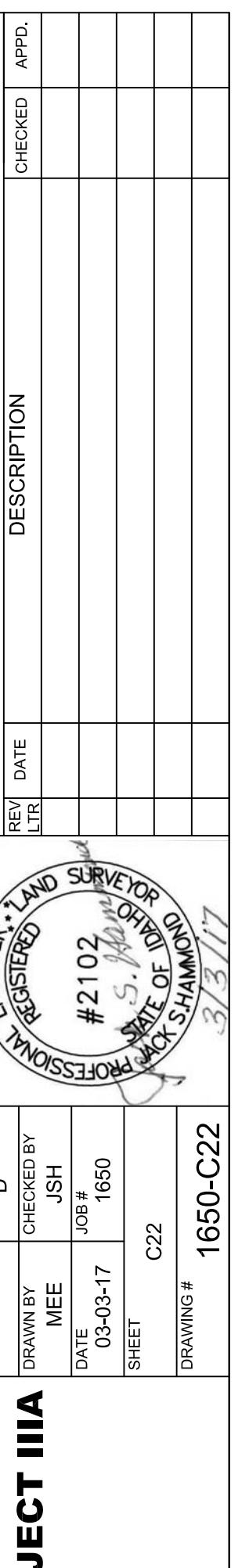
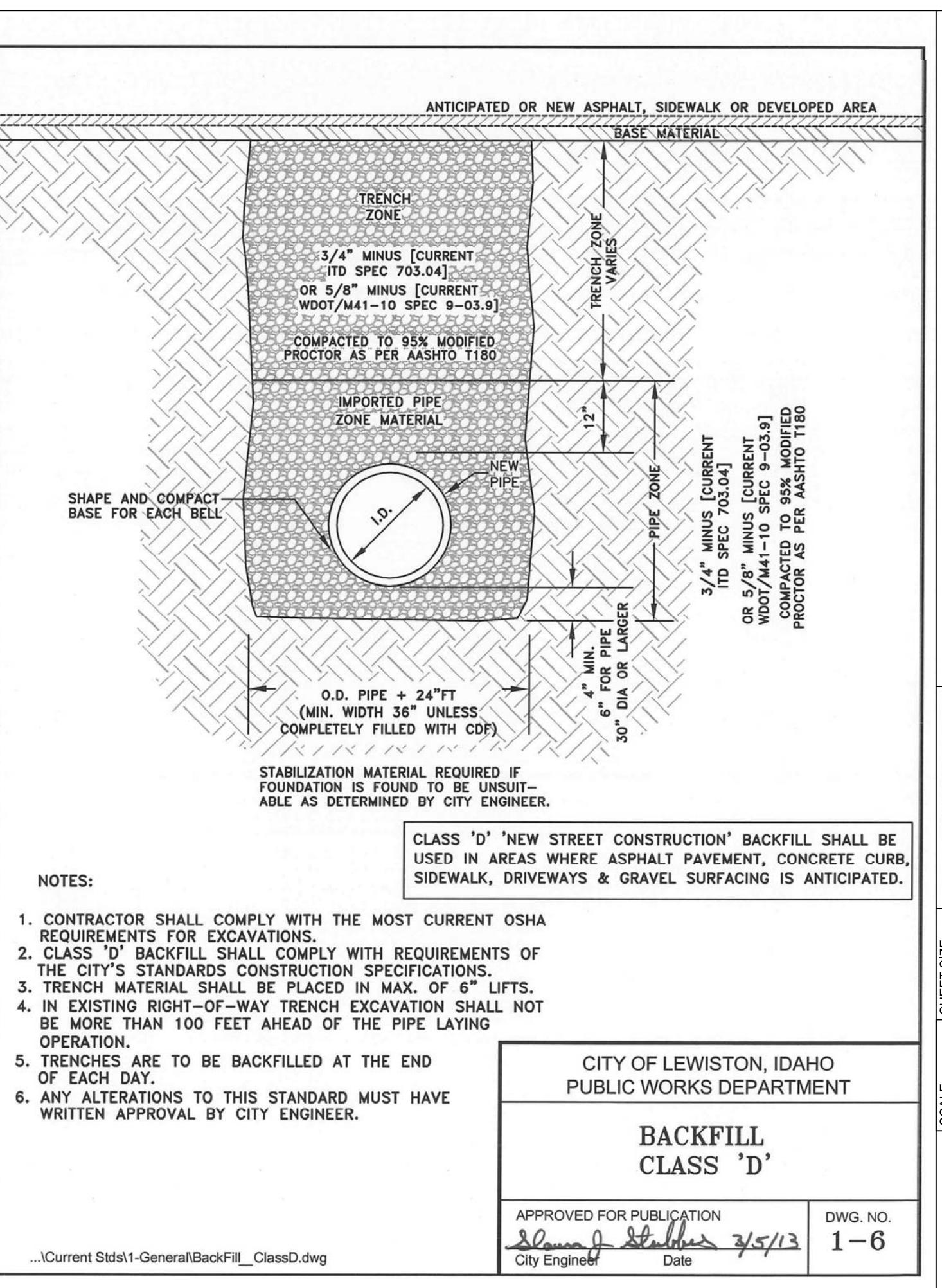
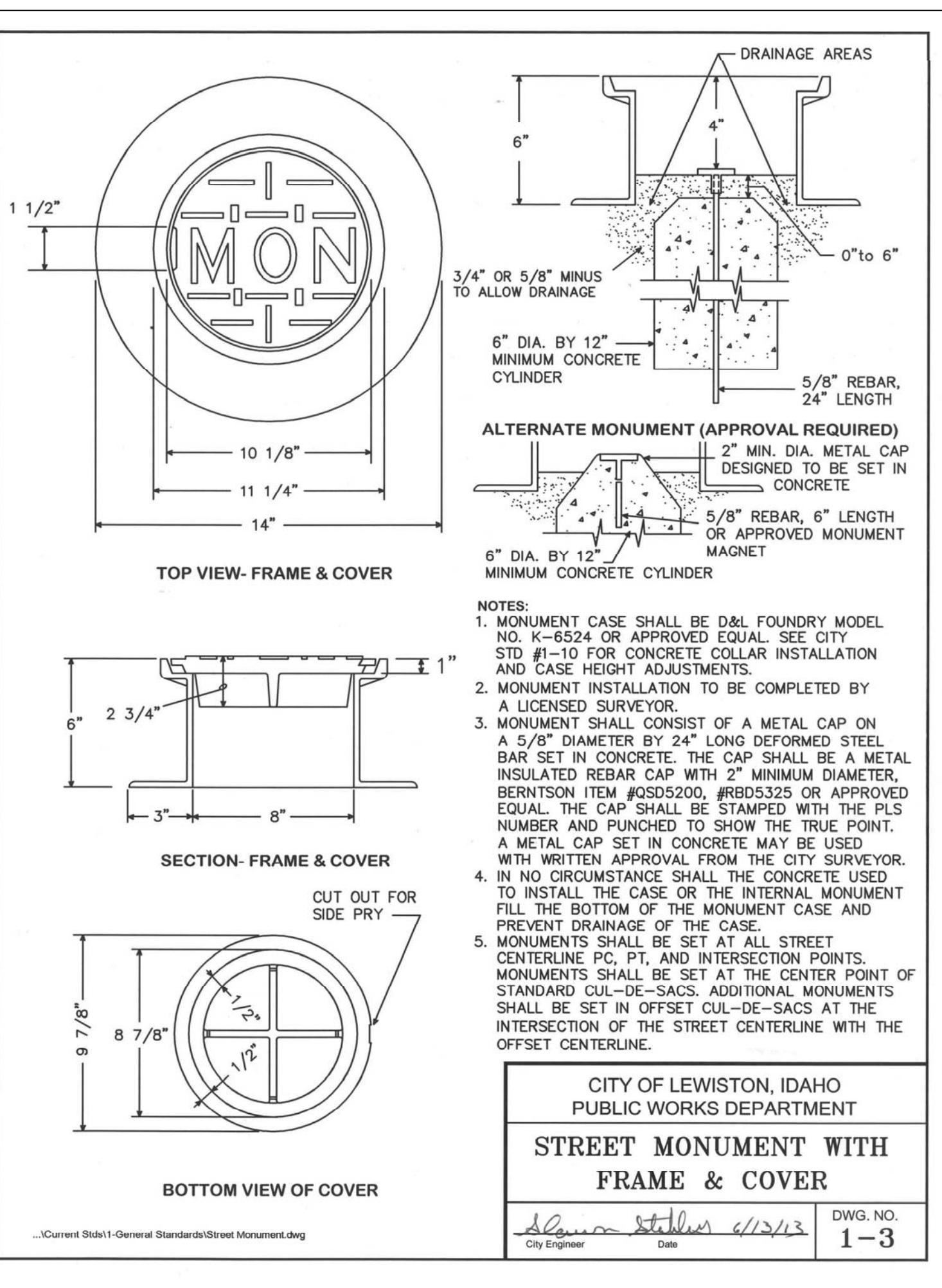
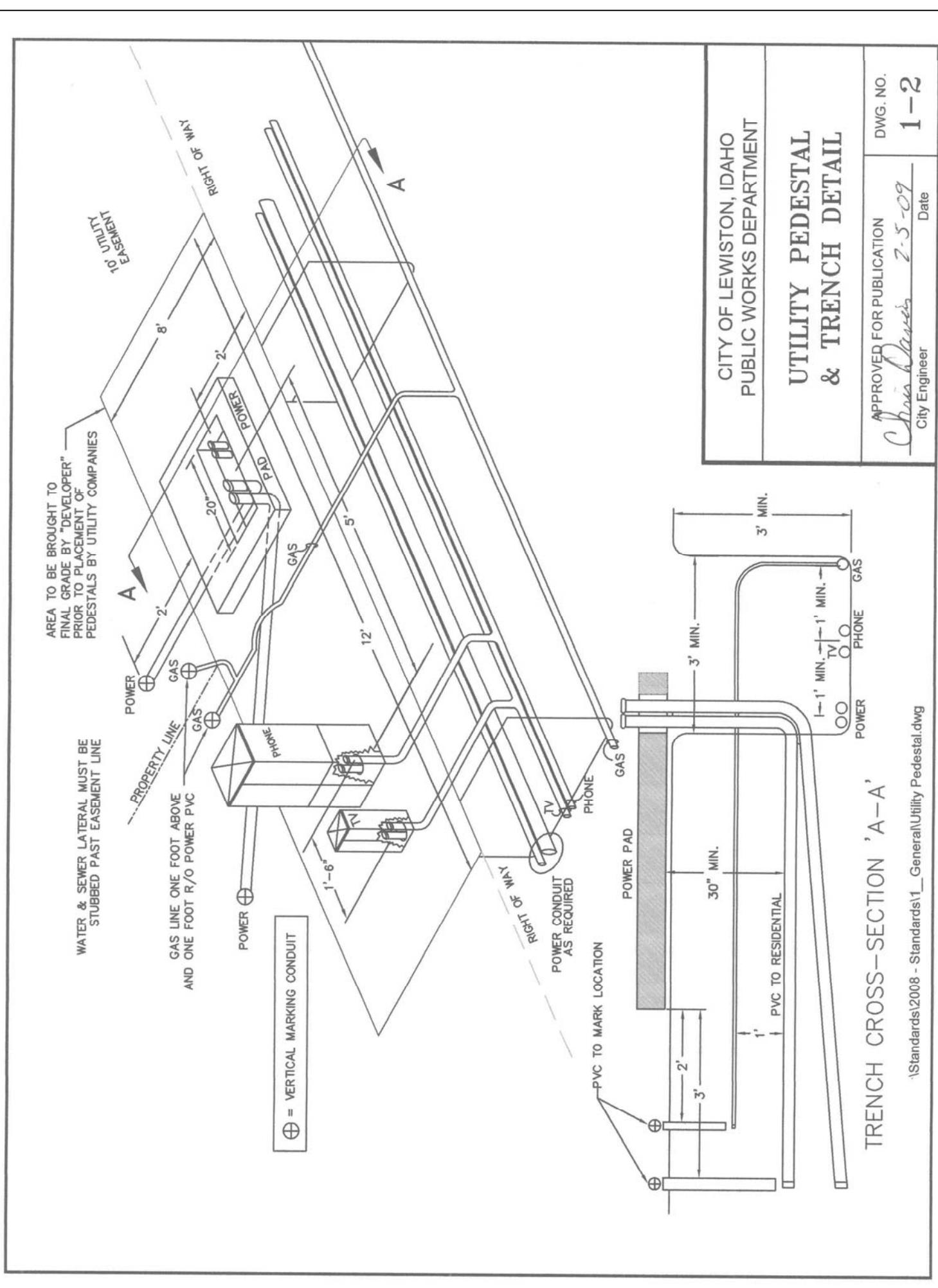
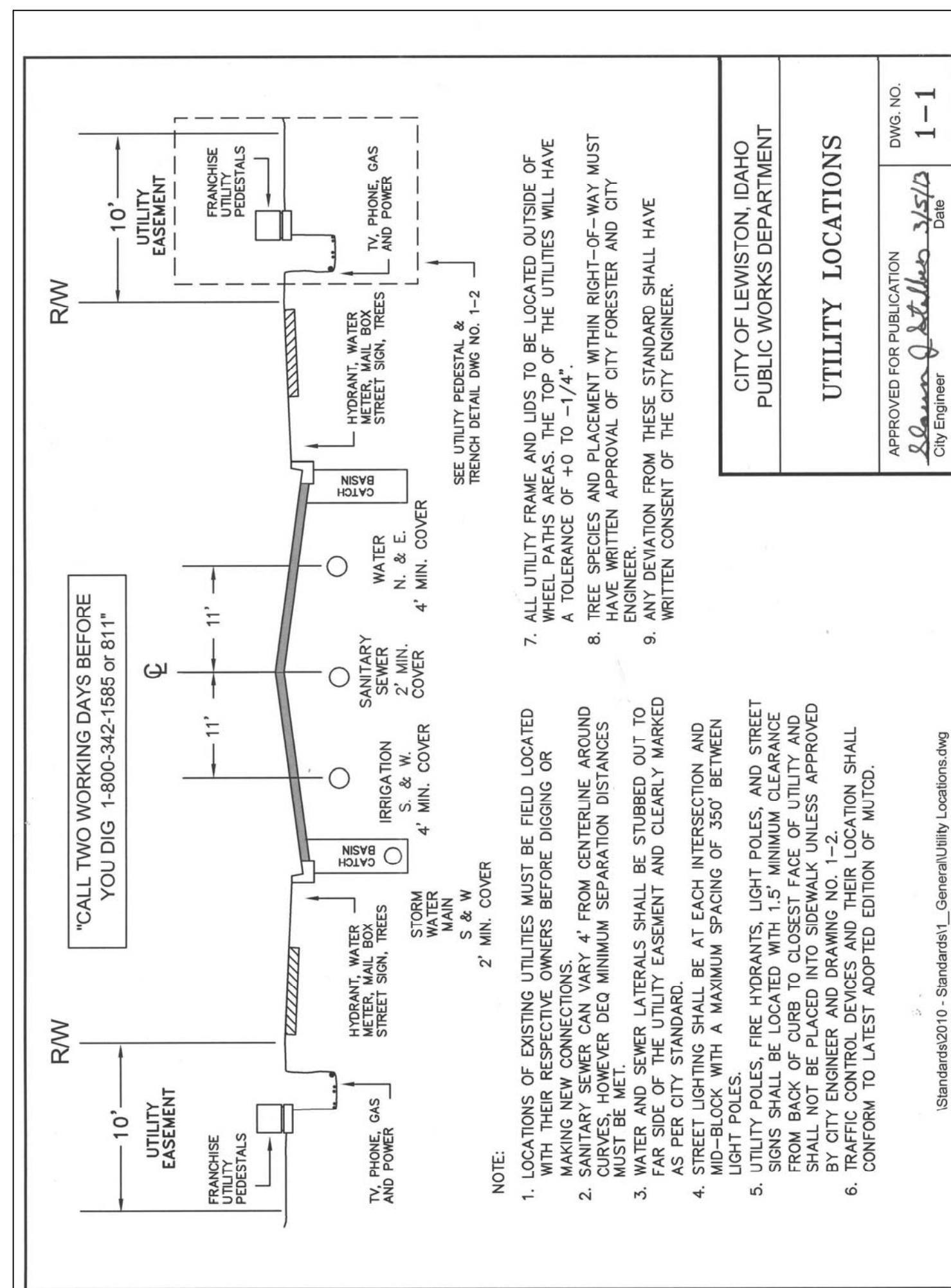
THE ESTATES AT CANYON CREST - PHASE III / PROJECT IIIA  
ALLEY X-SECTIONS  
RPL DEVELOPMENT CO., INC.  
LEWISTON, IDAHO

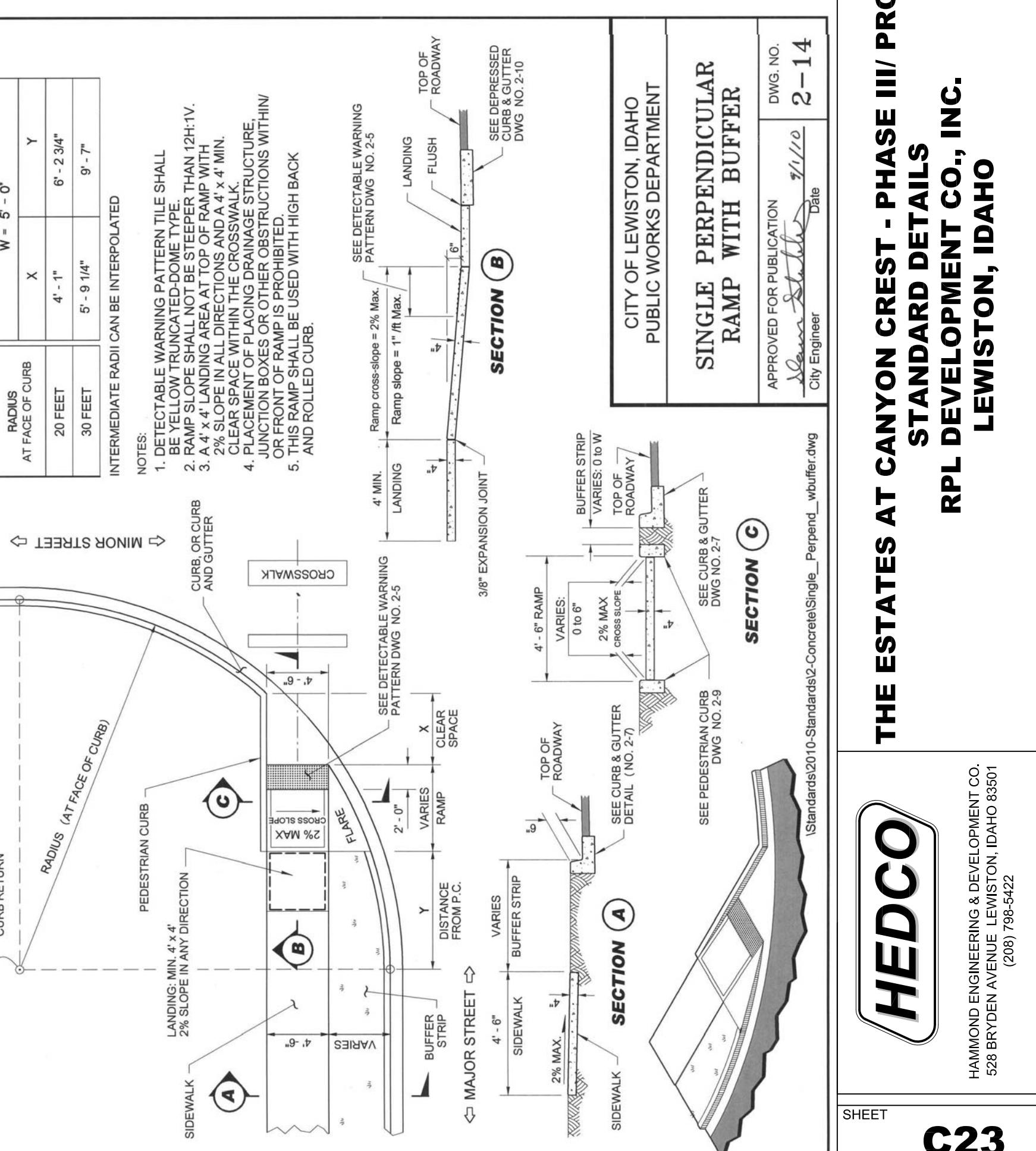
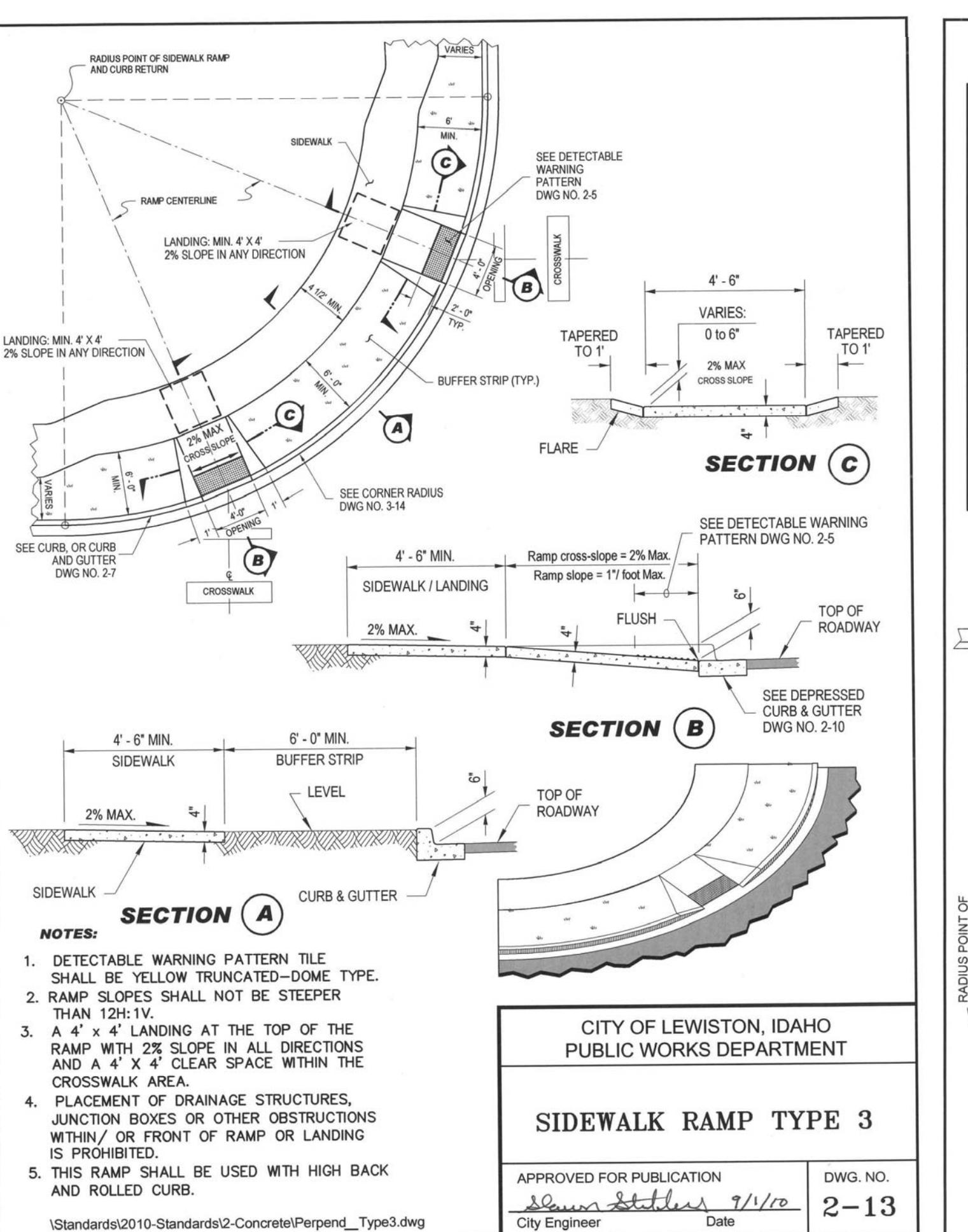
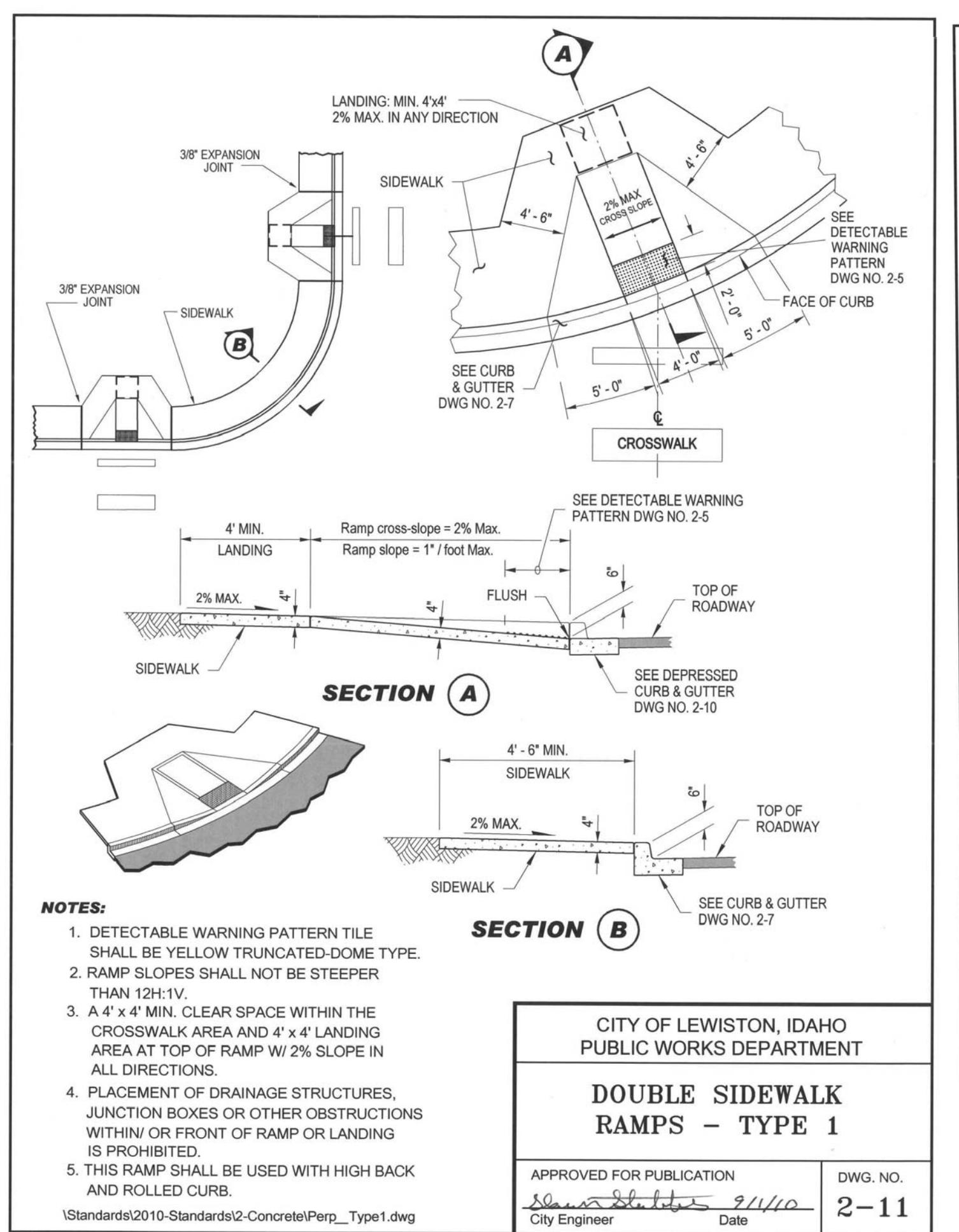
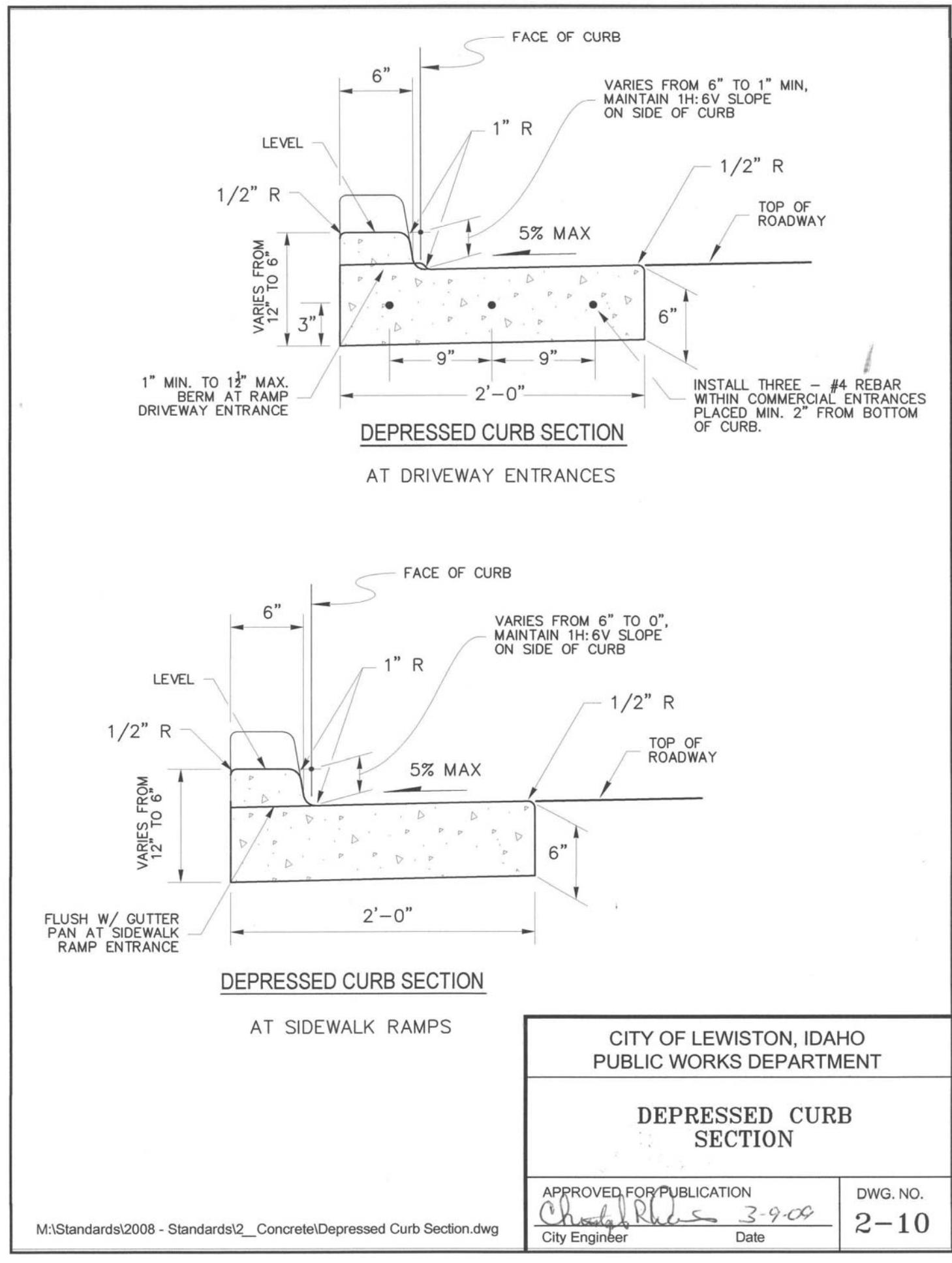
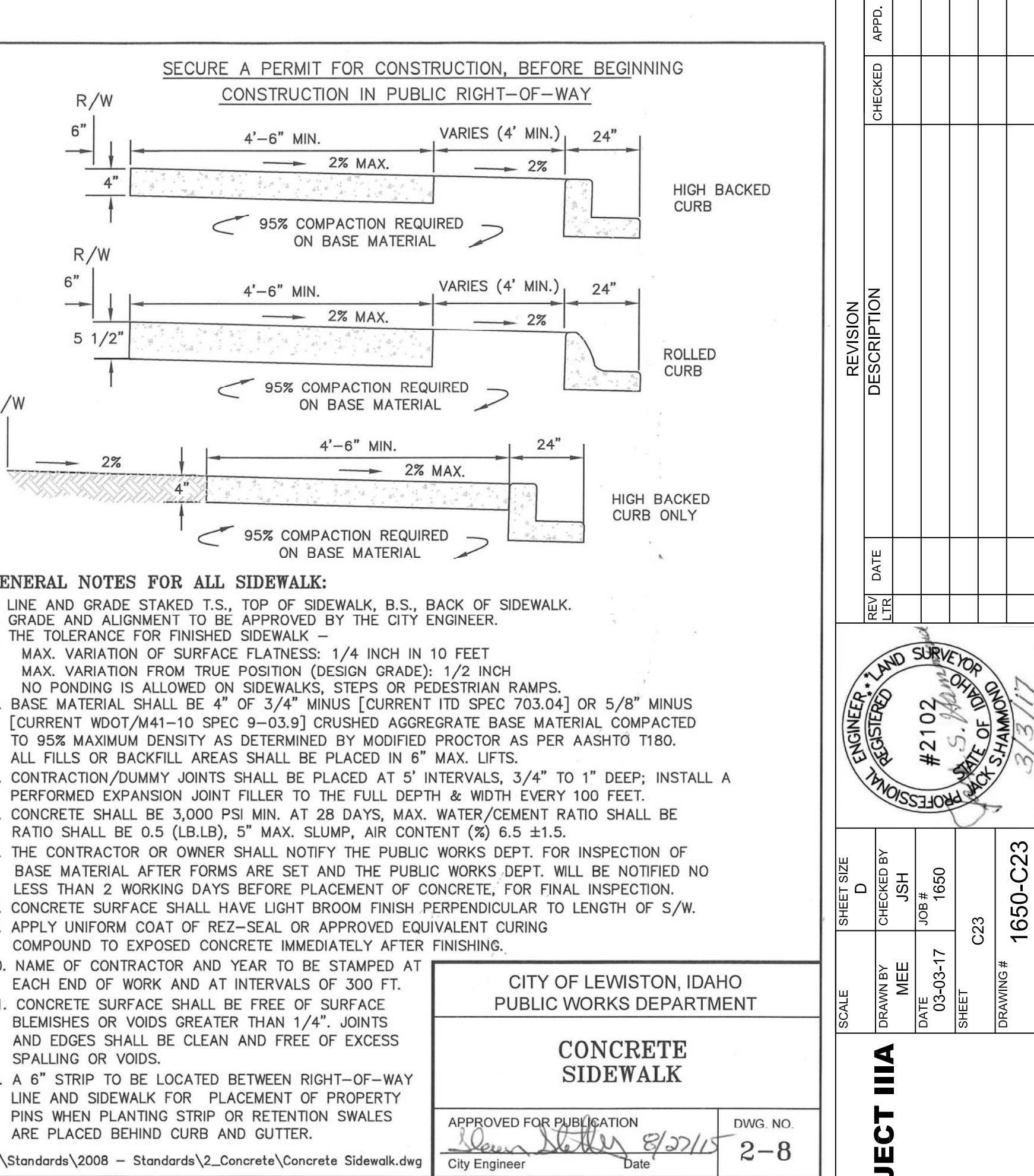
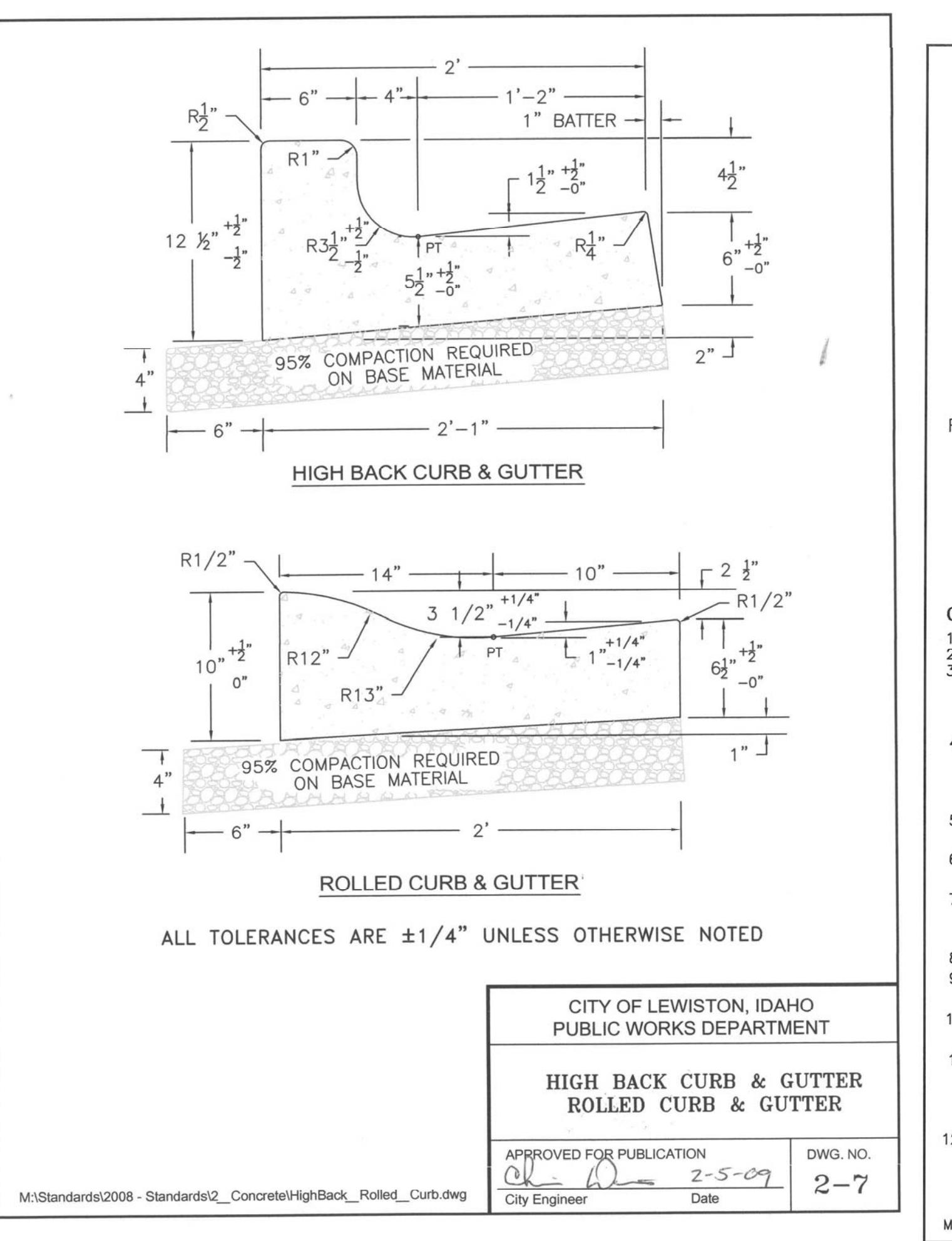
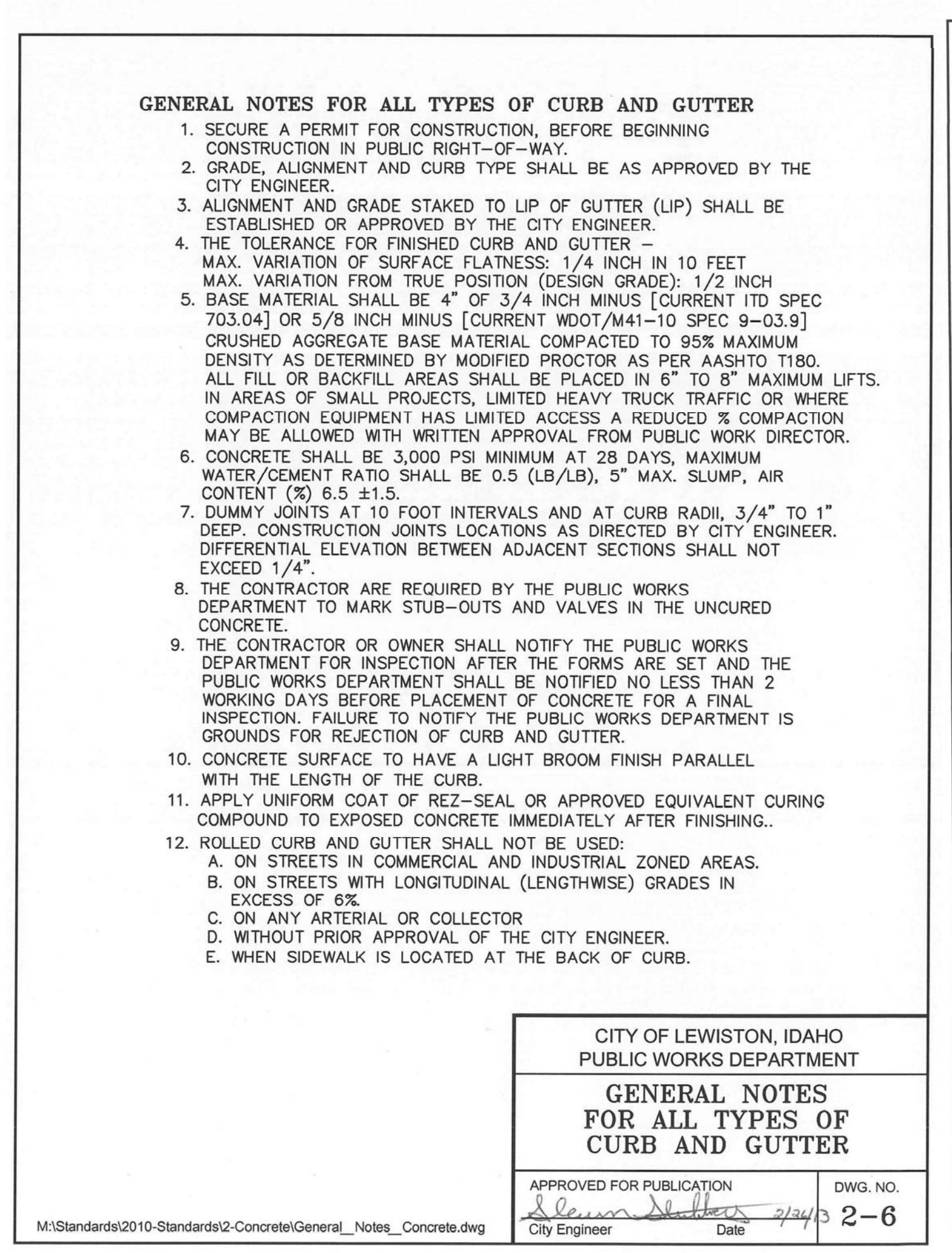
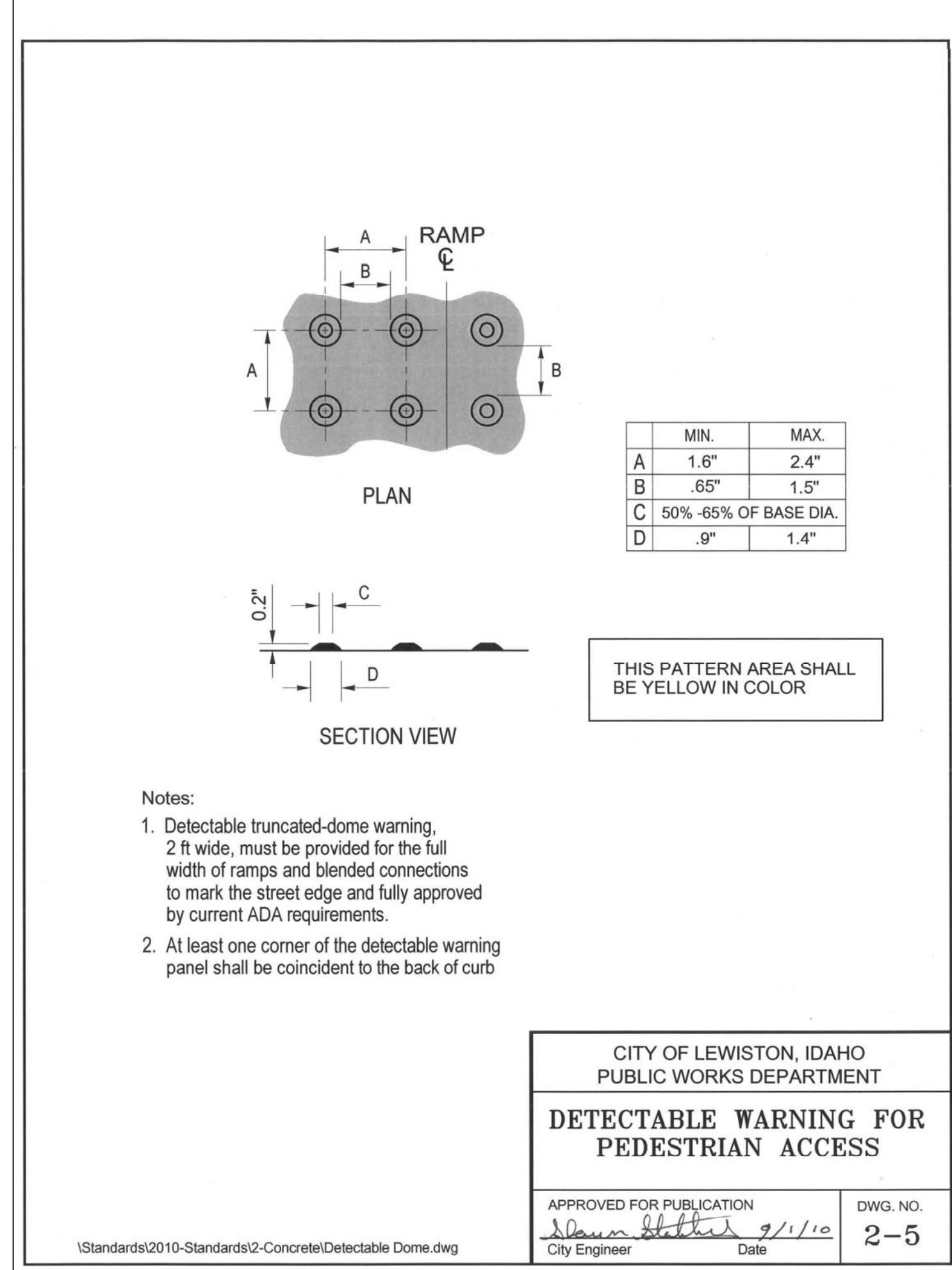
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HAMMOND ENGINEERING & DEVELOPMENT CO.  
528 BRYDEN AVENUE LEWISTON IDAHO 83501  
(208) 798-5422

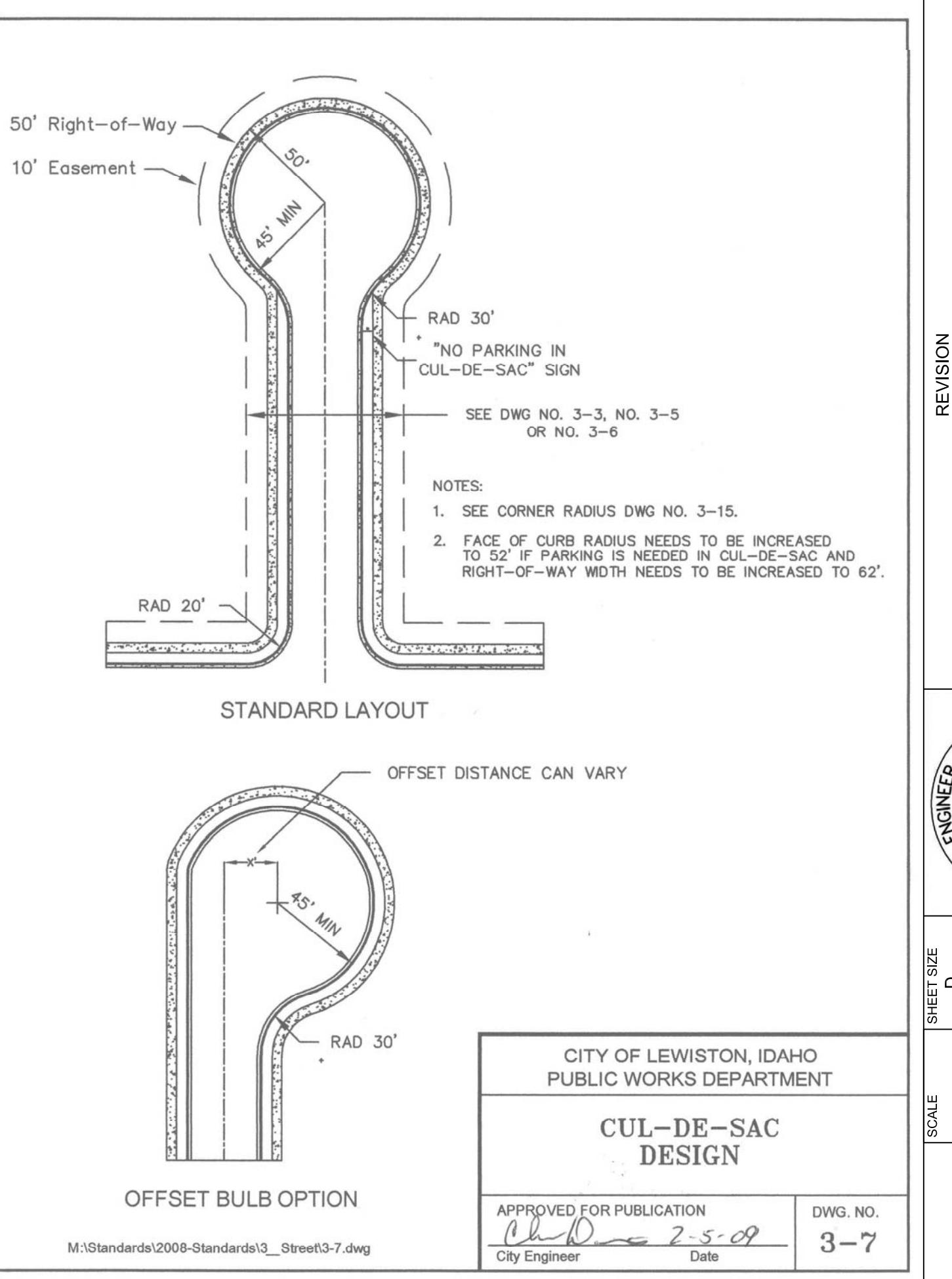
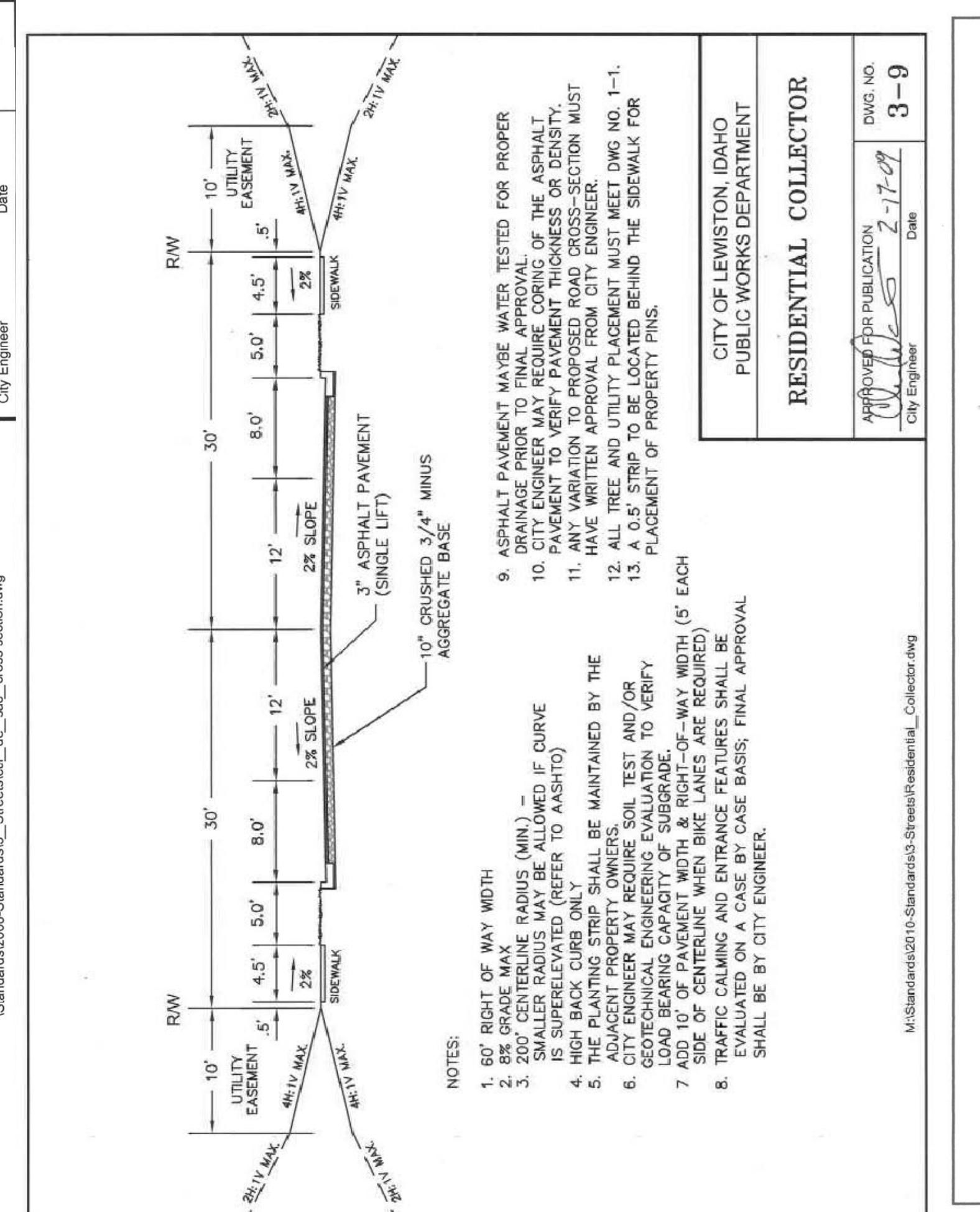
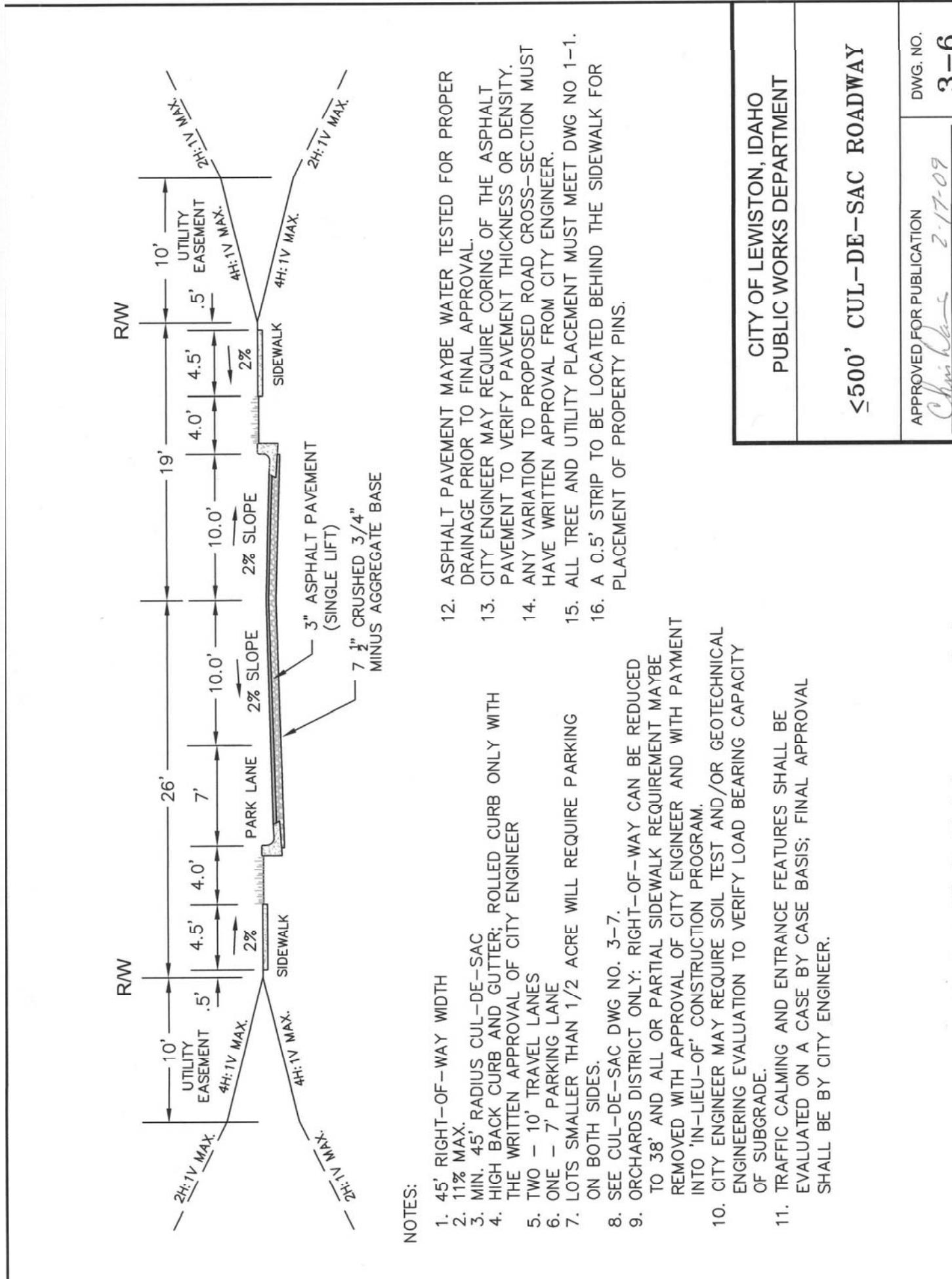
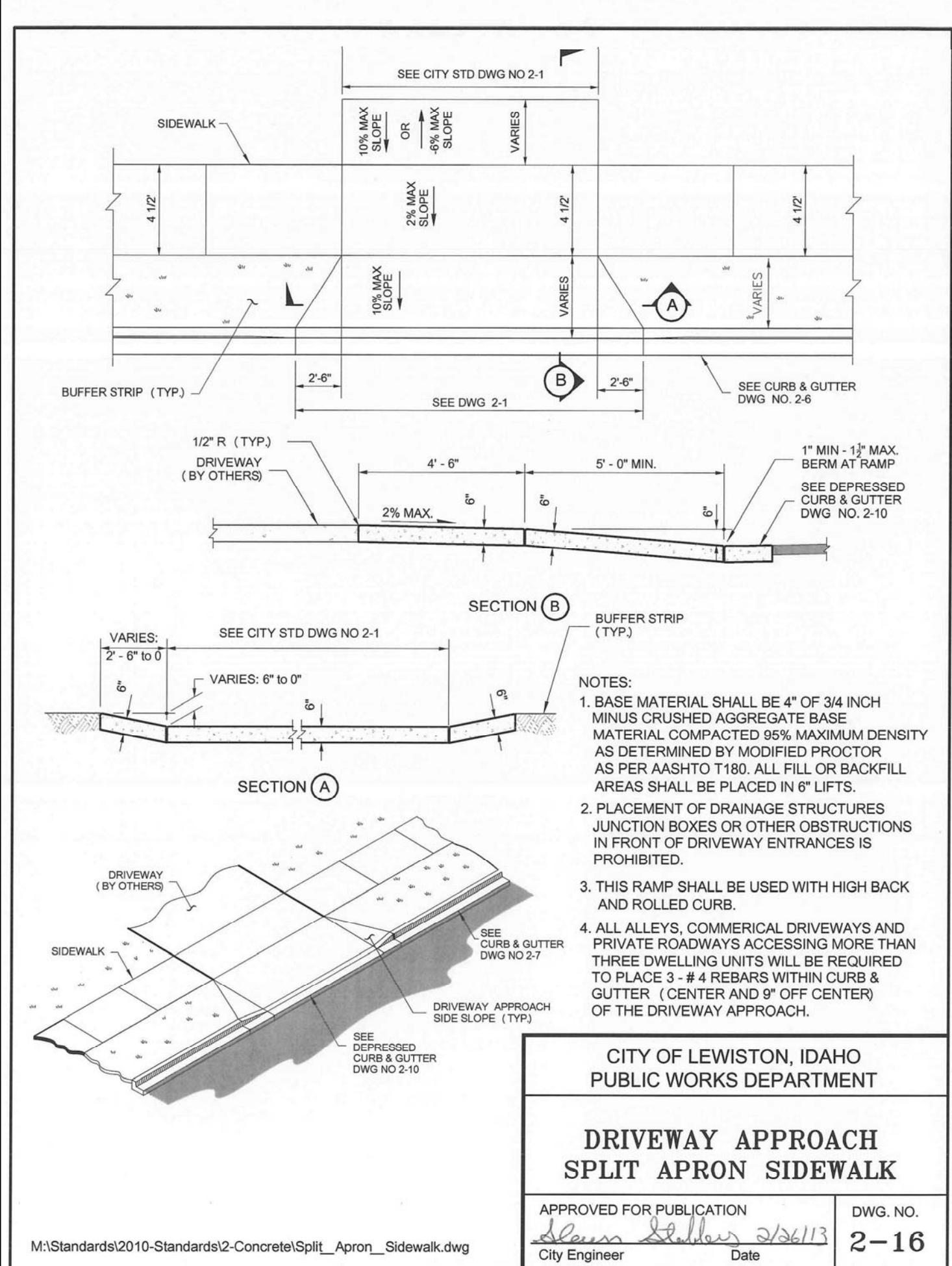
SHEET C20

3/3/17



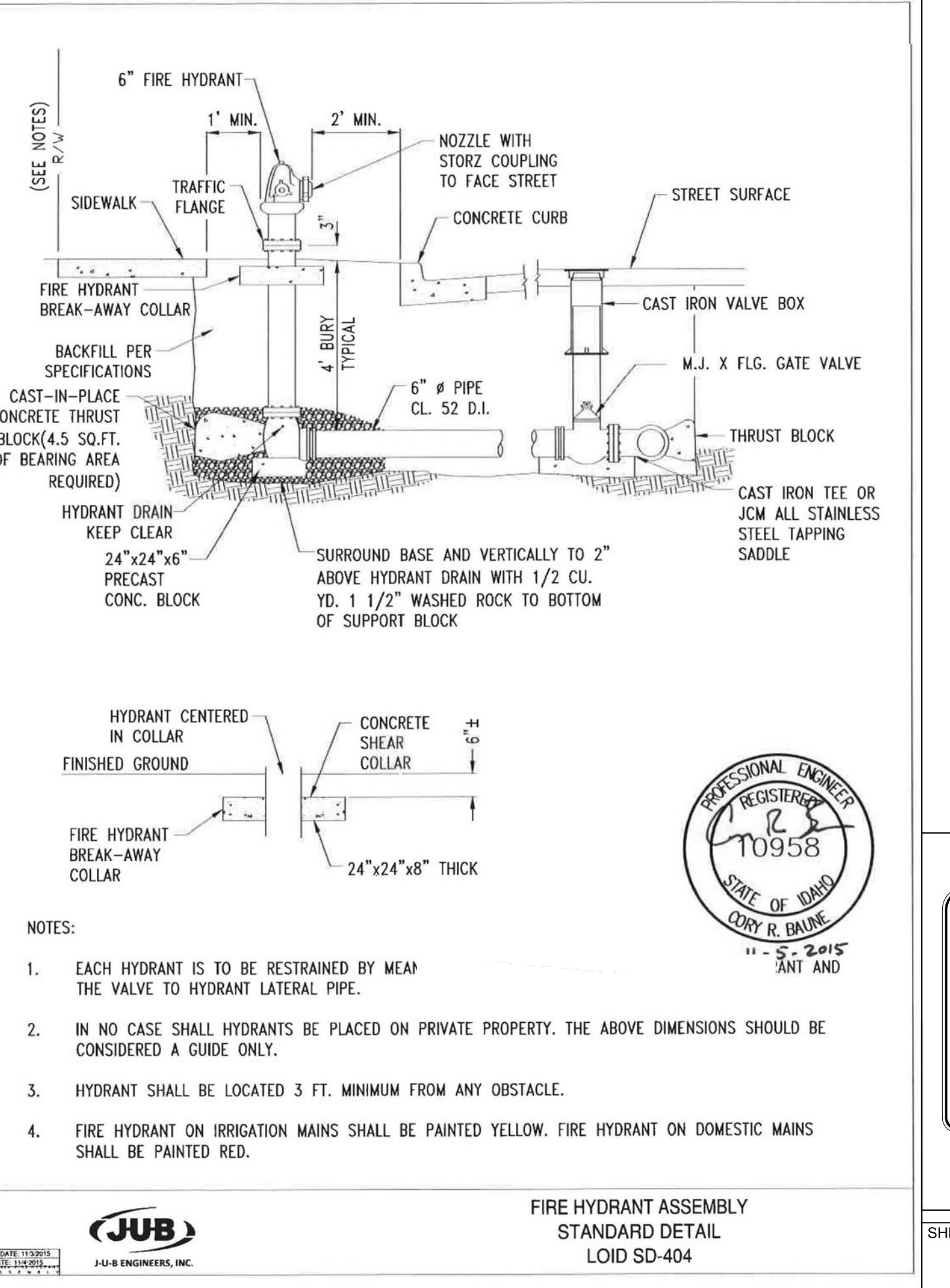
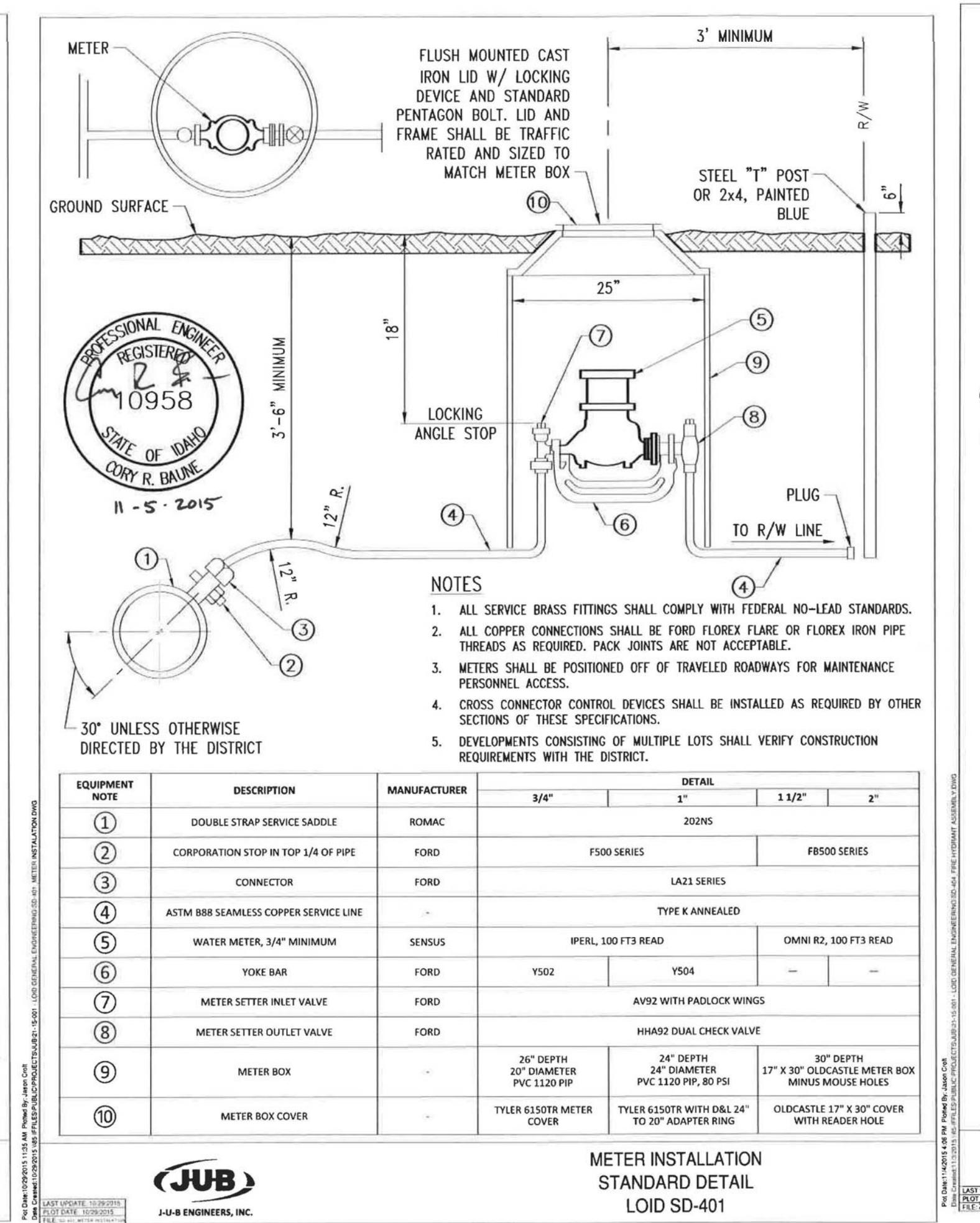
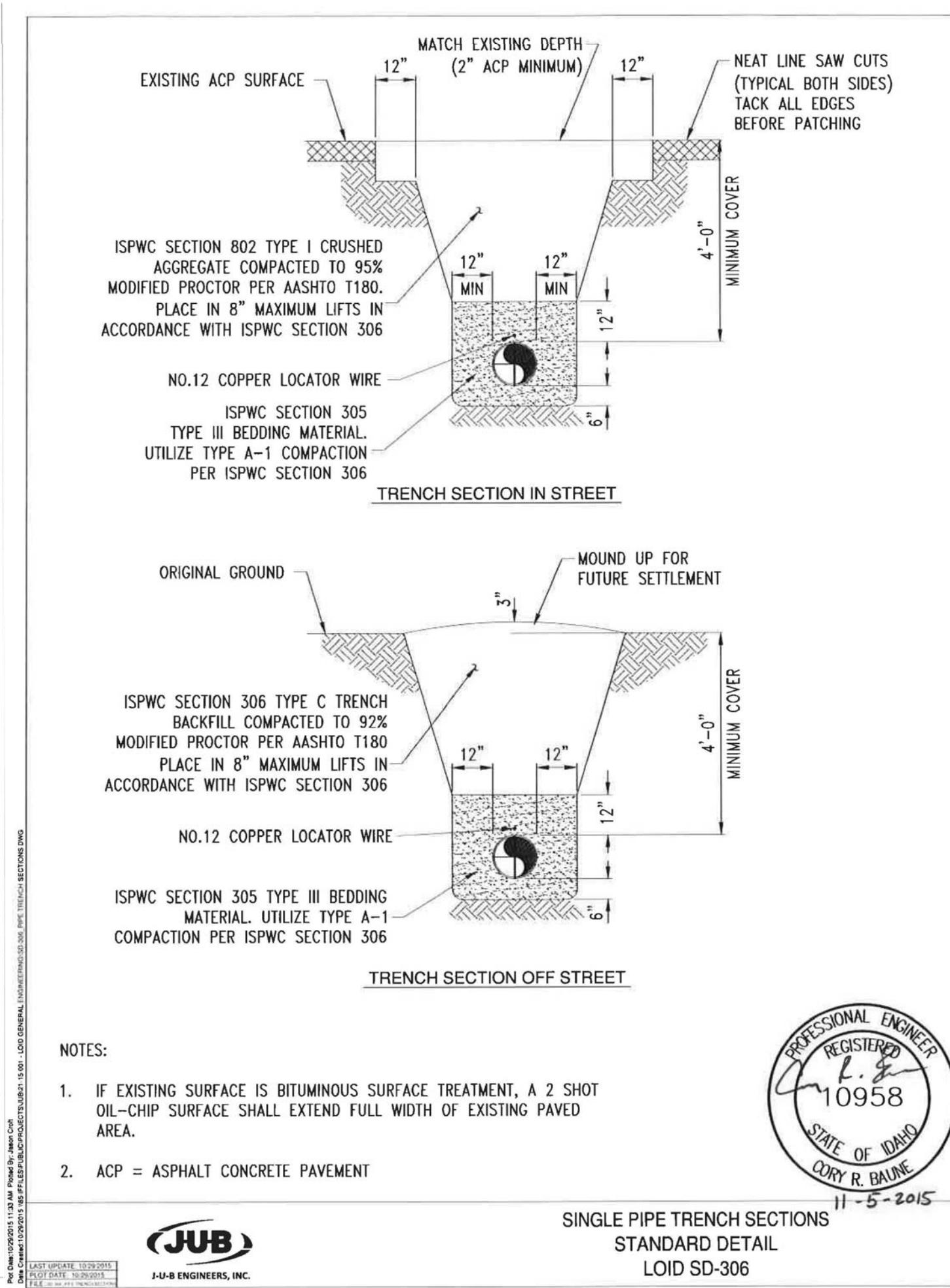
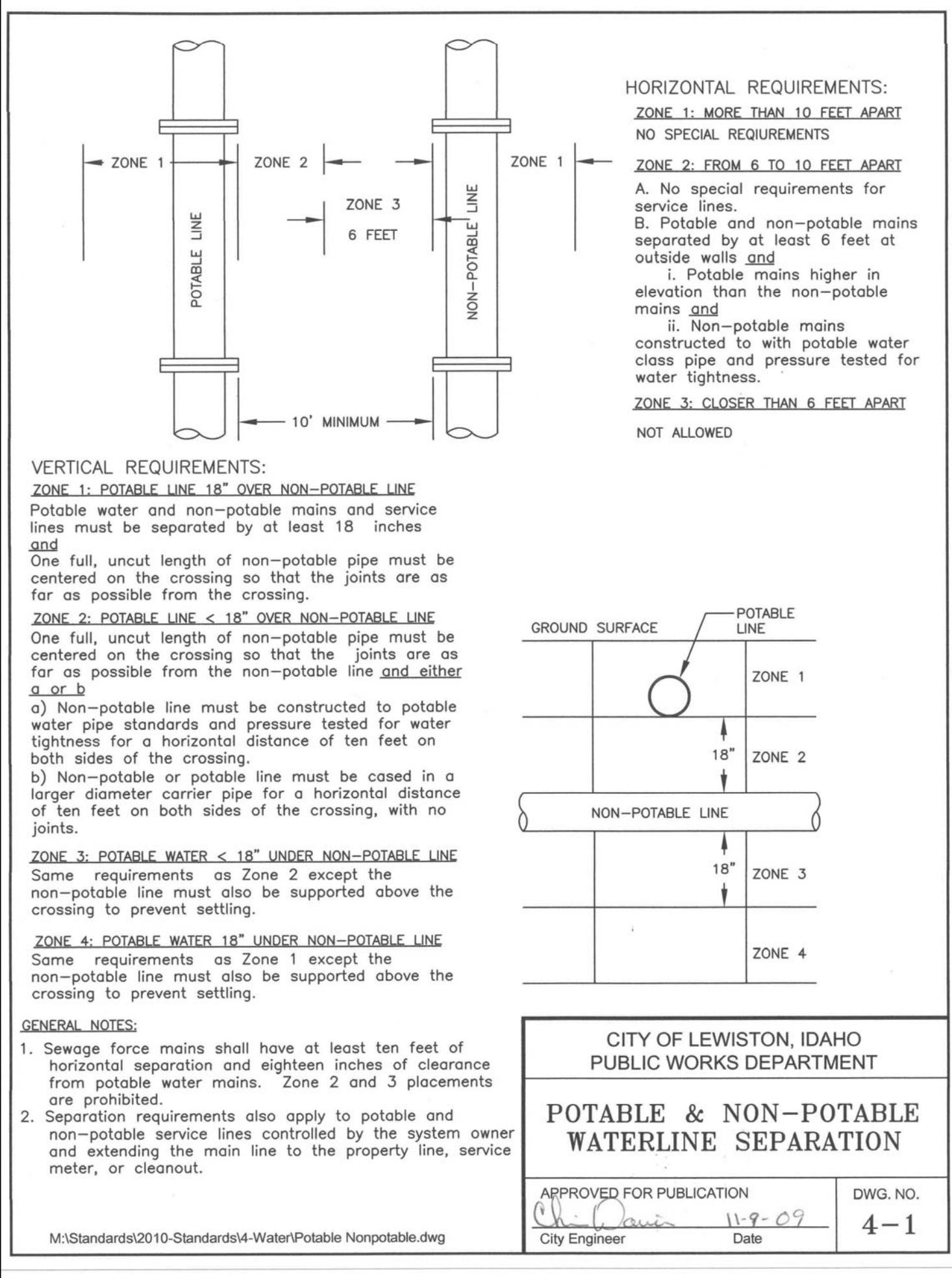






REVISION	DESCRIPTION	CHECKED APPD.

*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD



SCALE	Sheet Size D	REVISION	DESCRIPTION	CHECKED APPD.
DRAWN BY MEE DATE 05-03-17 SHEET C24	D			

*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

REVISION	DESCRIPTION	CHECKED APPD.

*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

REVISION	DESCRIPTION	CHECKED APPD.

*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

REVISION	DESCRIPTION	CHECKED APPD.

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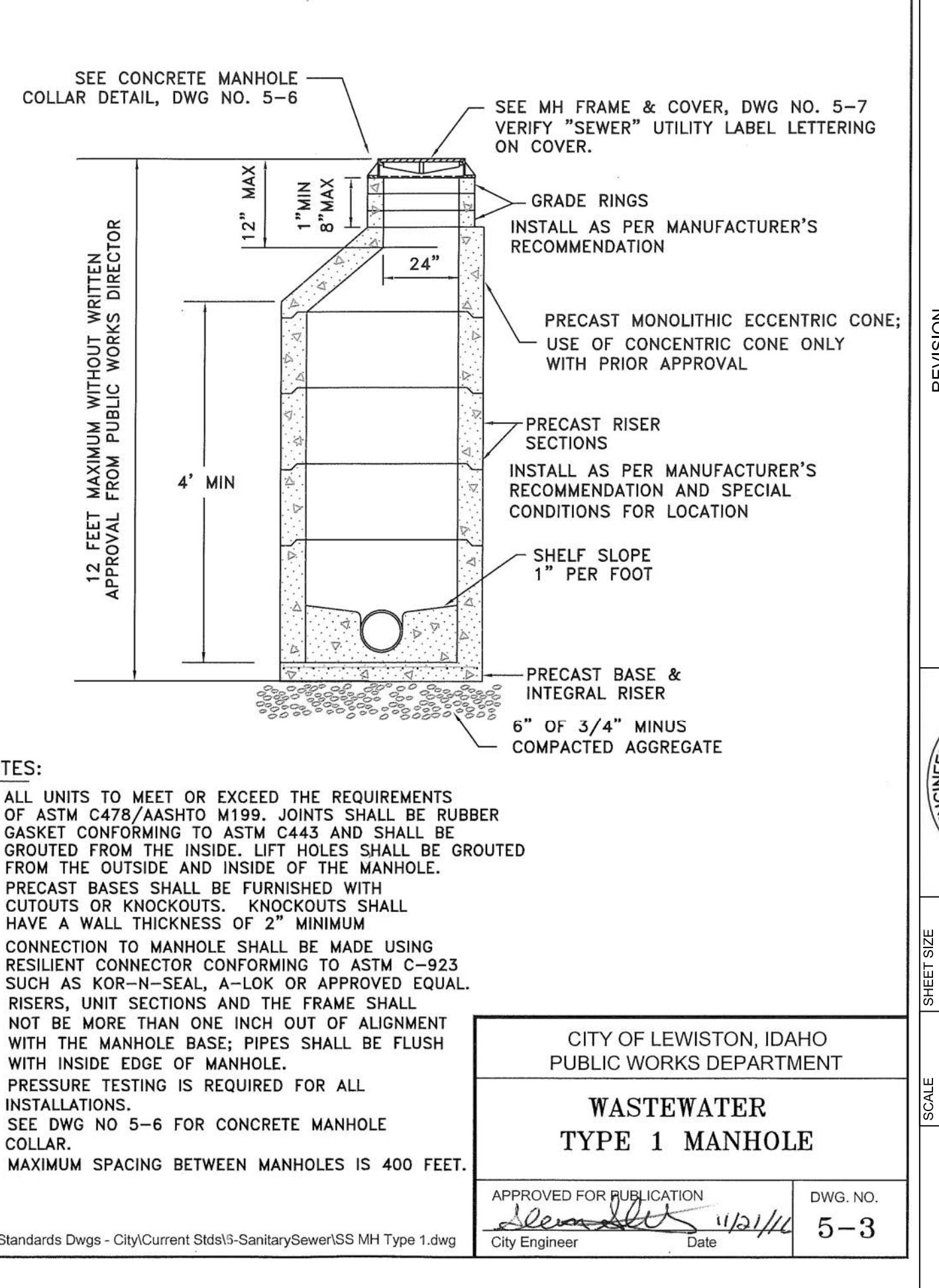
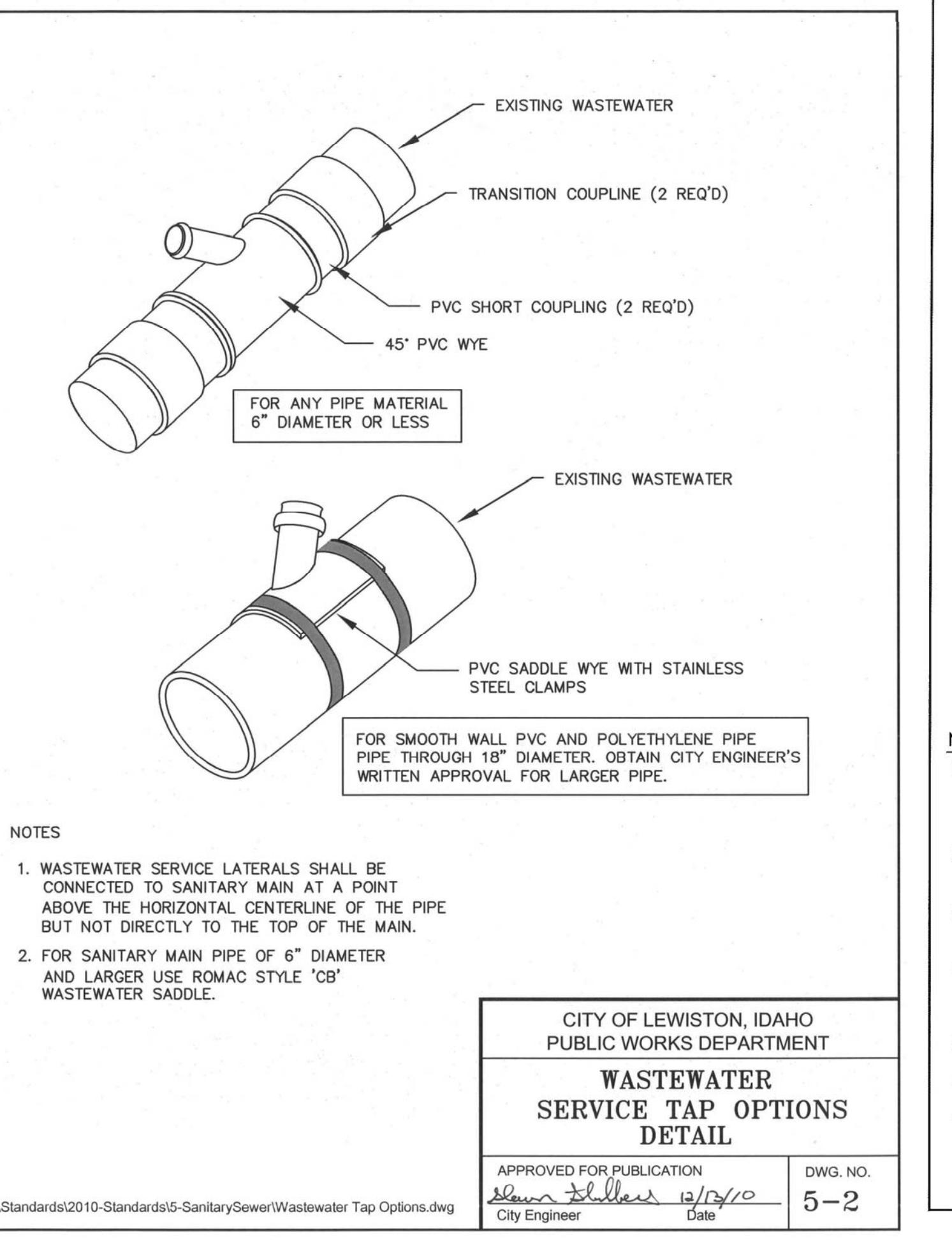
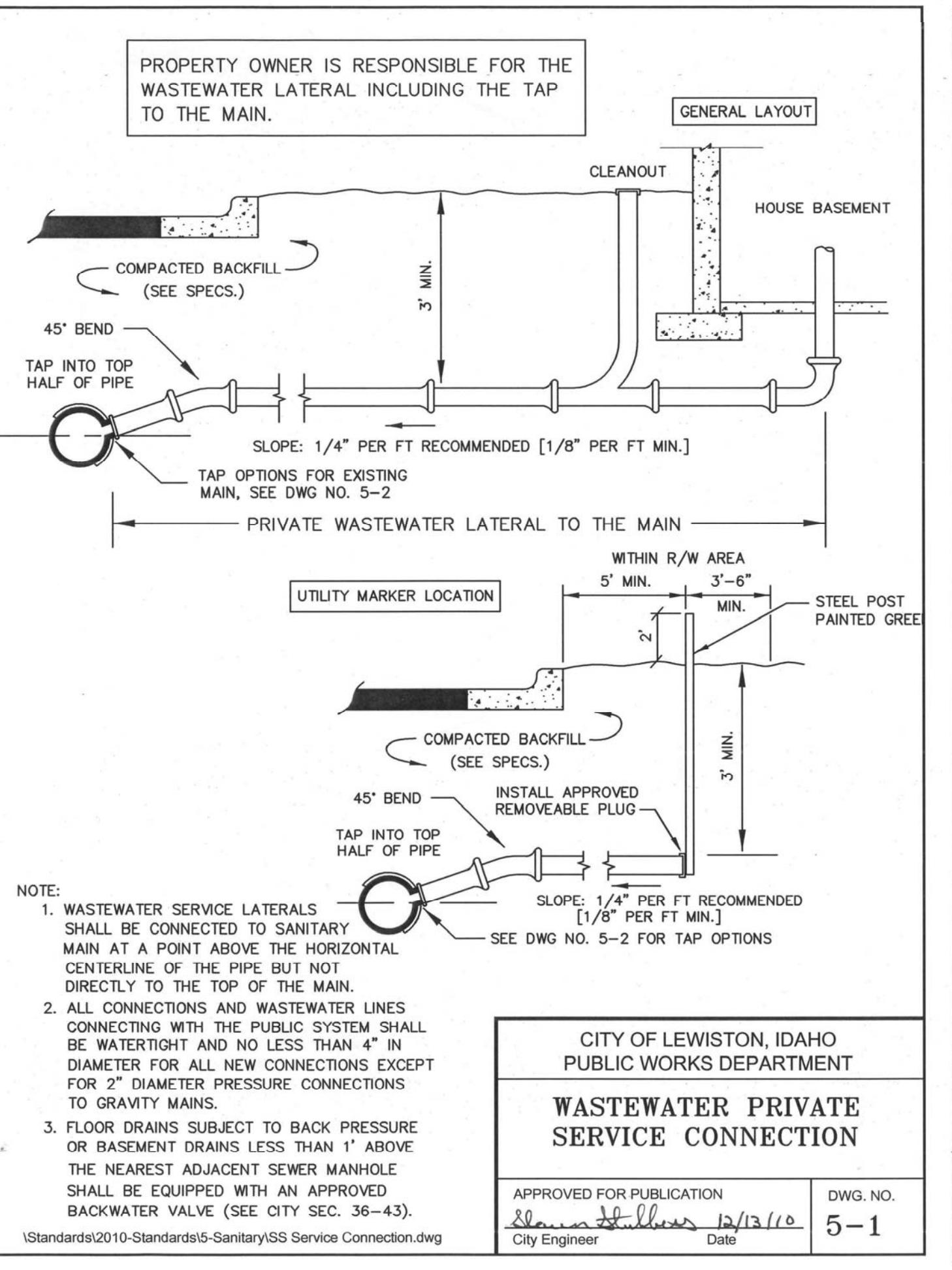
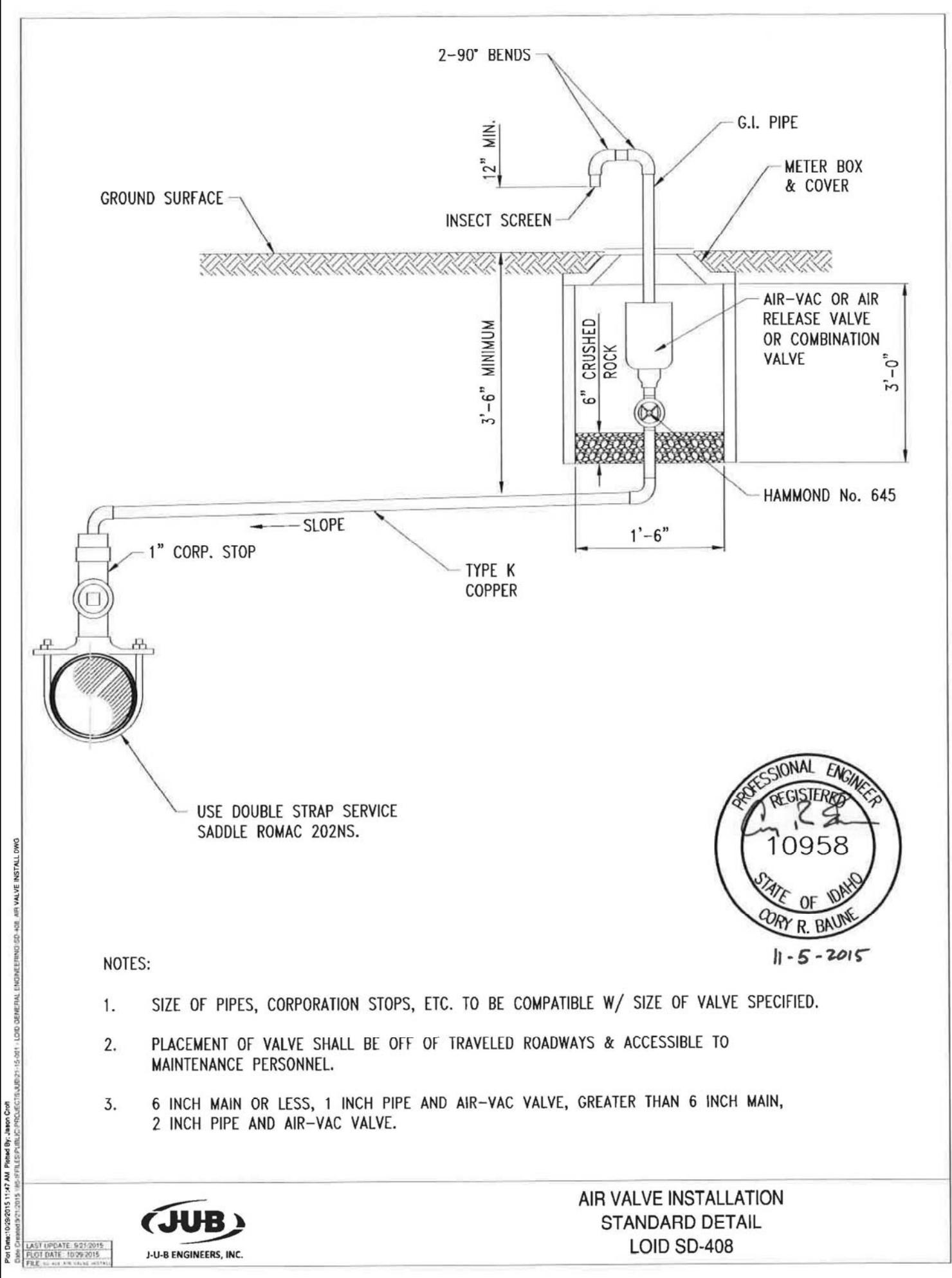
*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

REVISION	DESCRIPTION	CHECKED APPD.

*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

REVISION	DESCRIPTION	CHECKED APPD.

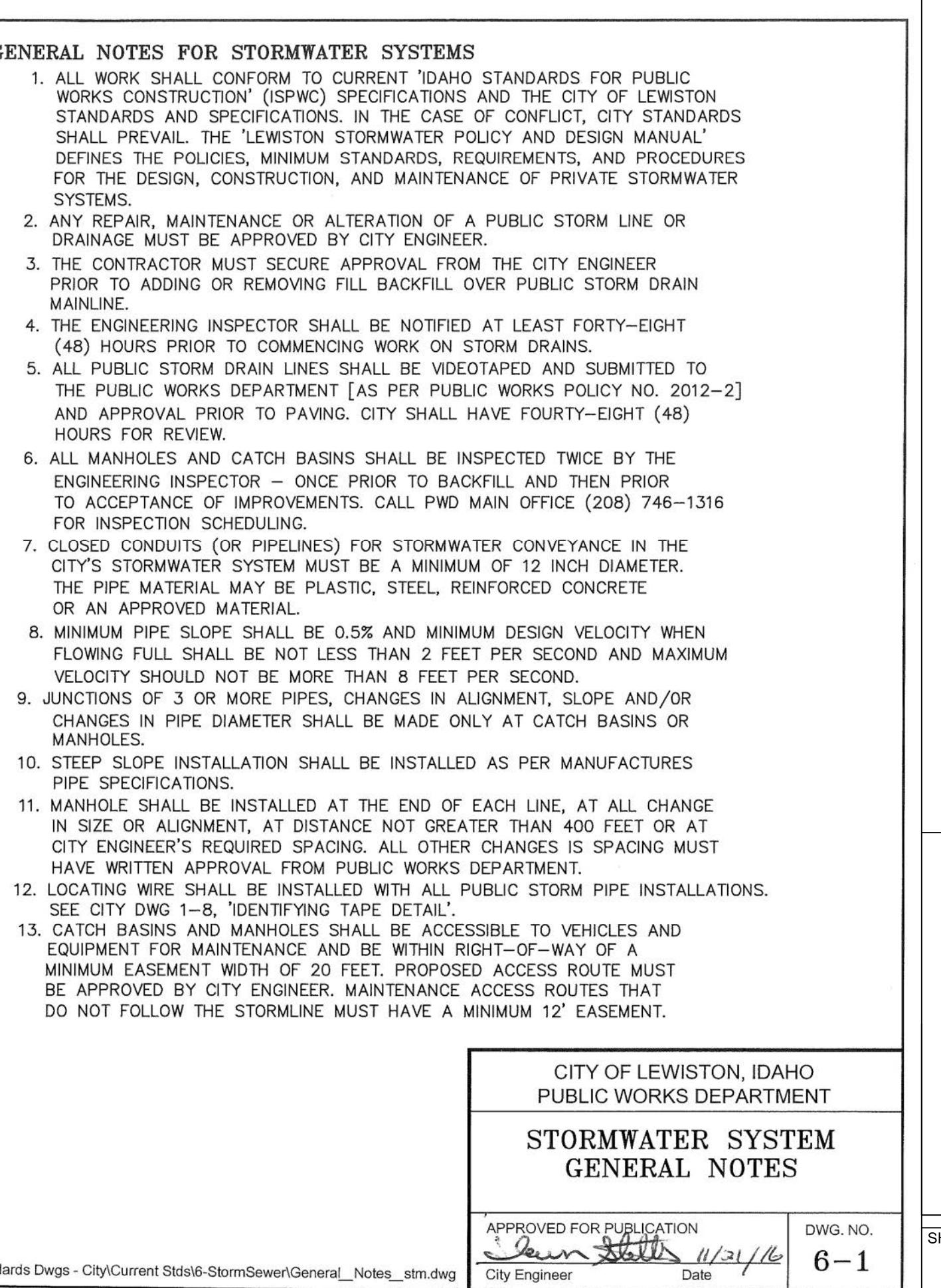
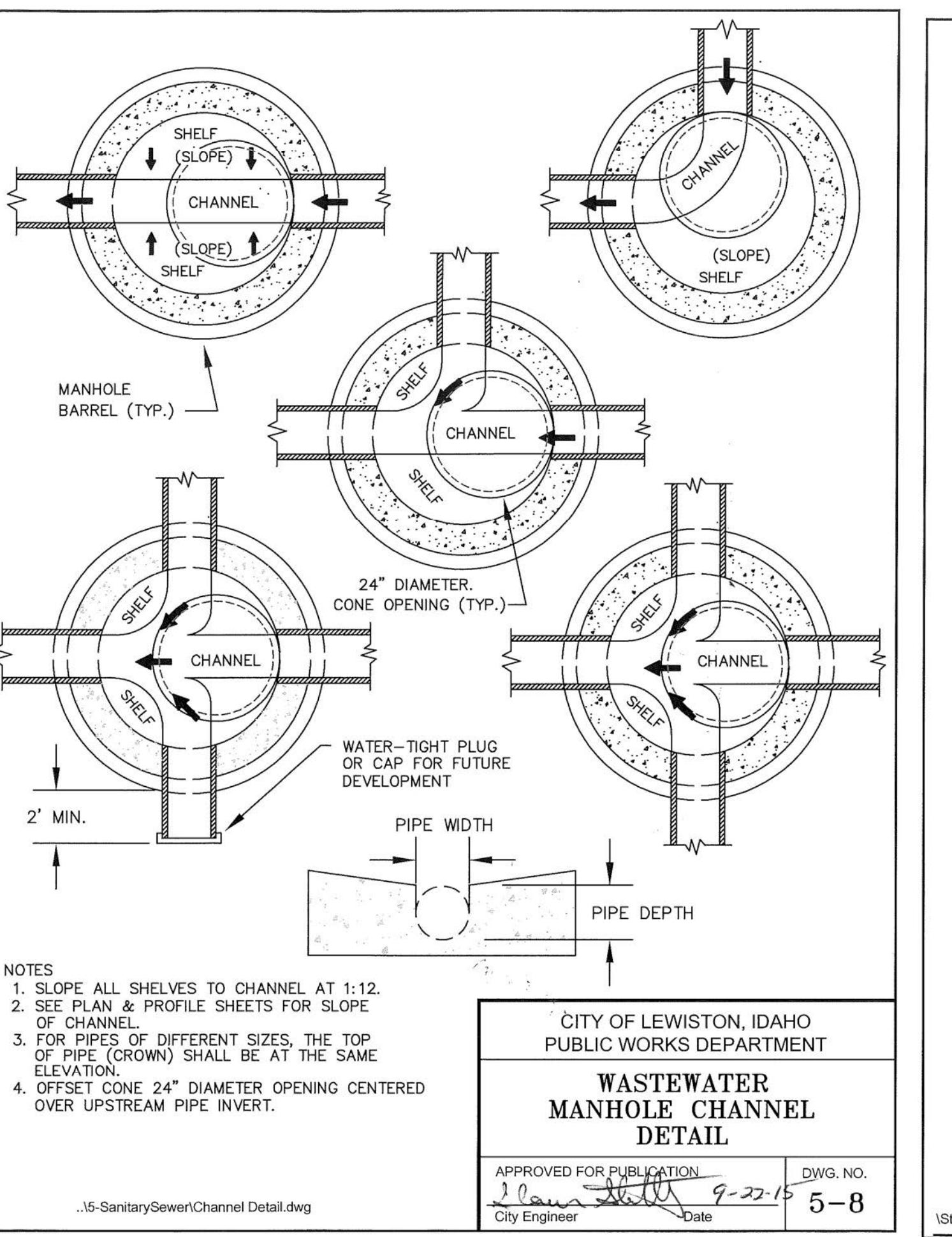
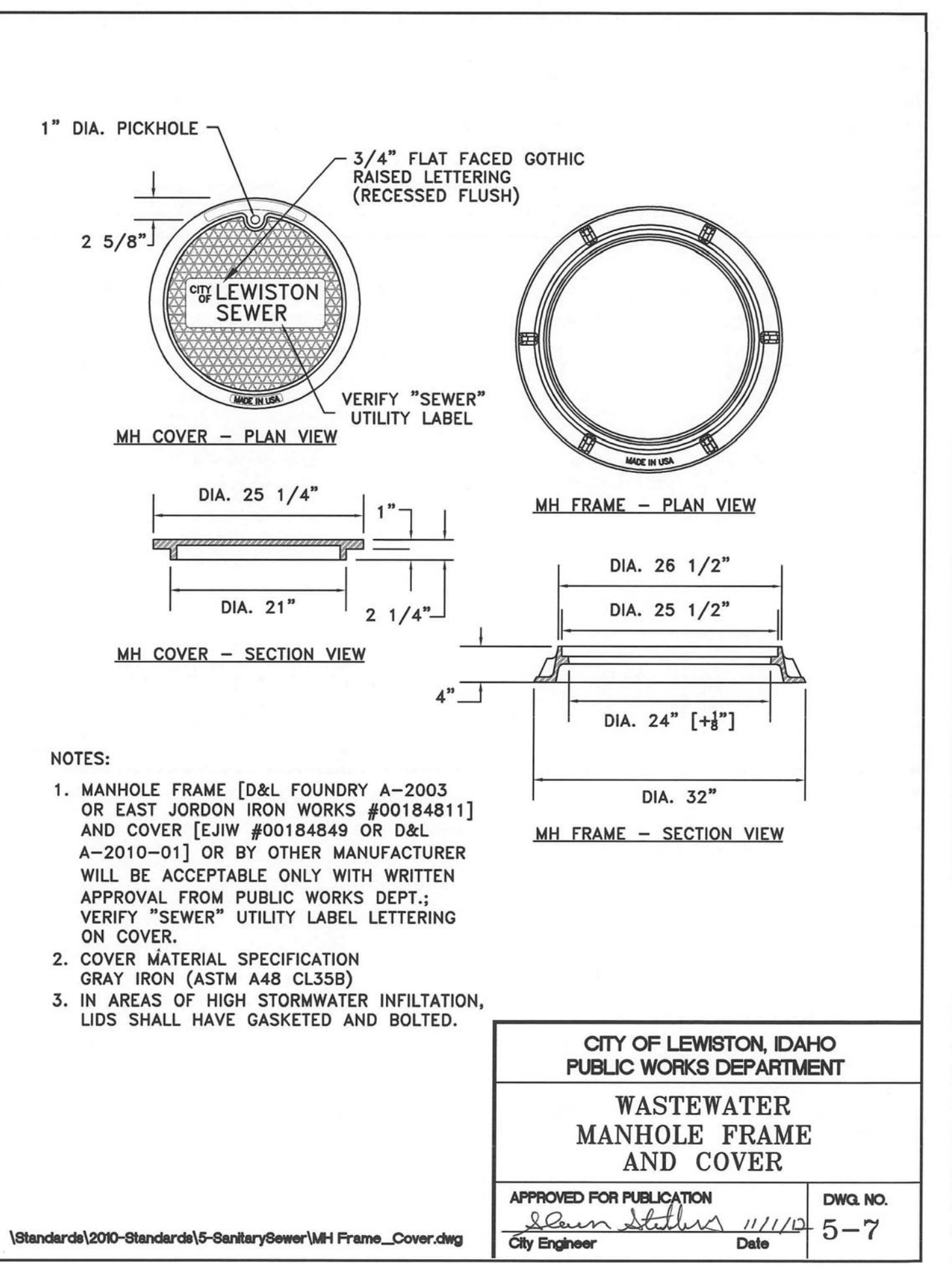
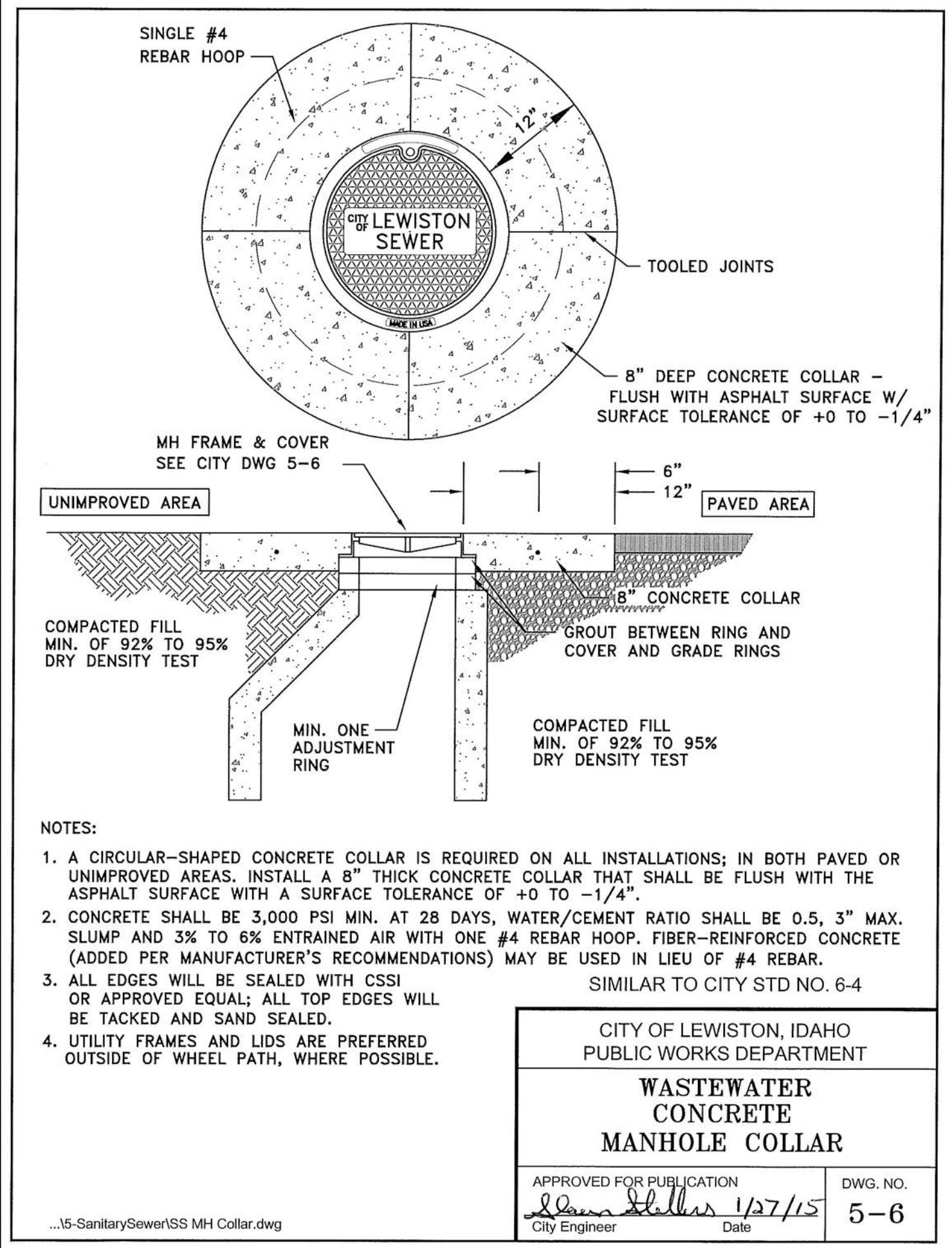
*[Signature]* #2102 DATE 3/3/17 BY JACK SHAMMOND, P.E., RPL SURVEYOR OF RECORD

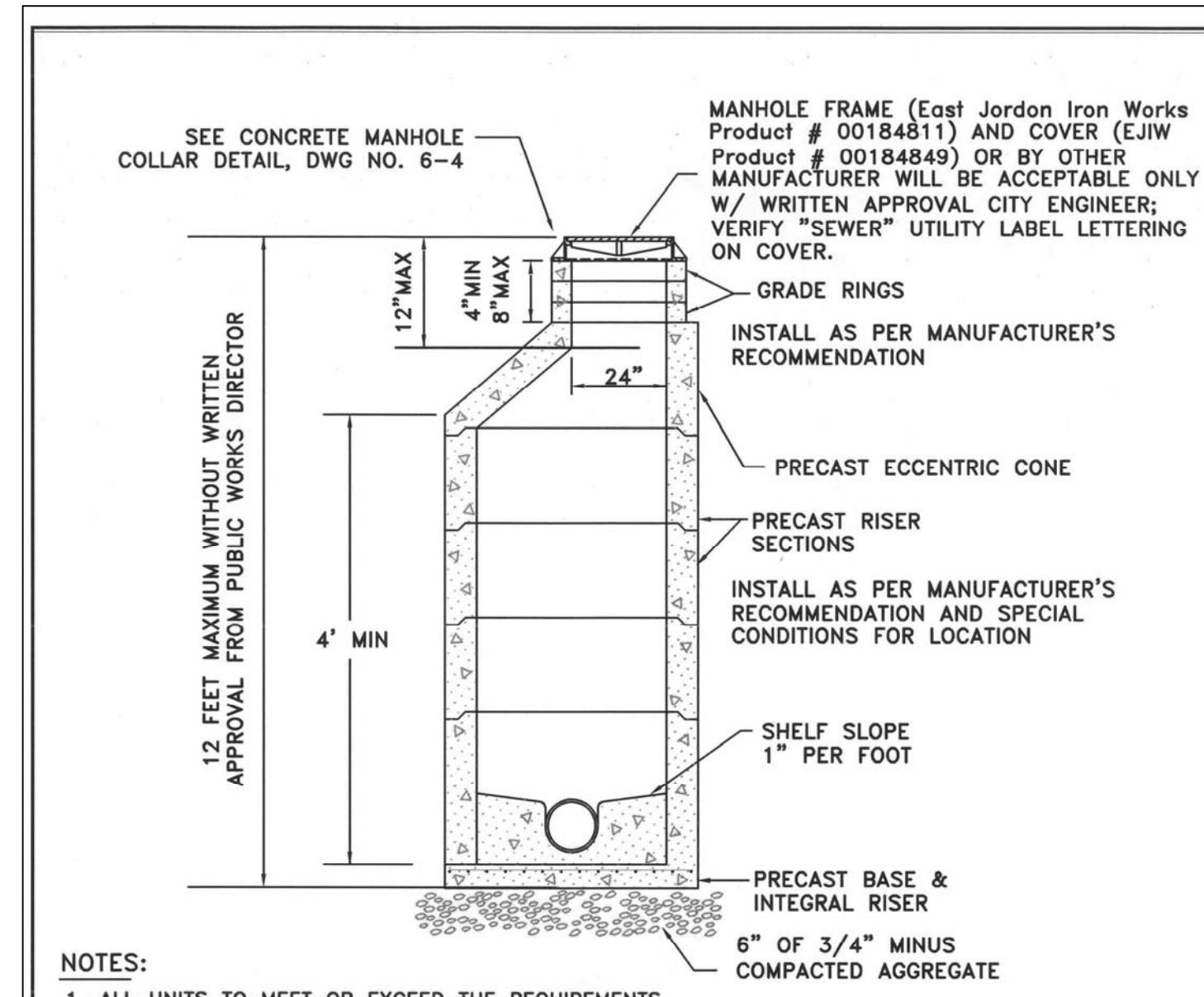


SHEET SIZE	D	REVISION	DESCRIPTION	APPROVED
REV. DATE	1650	03-03-17	1650-C25	3/3/17

**THE ESTATES AT CANYON CREST - PHASE III / PROJECT IIIA  
STANDARD DETAILS**

RPL DEVELOPMENT CO., INC.  
LEWISTON, IDAHO





**NOTES:**

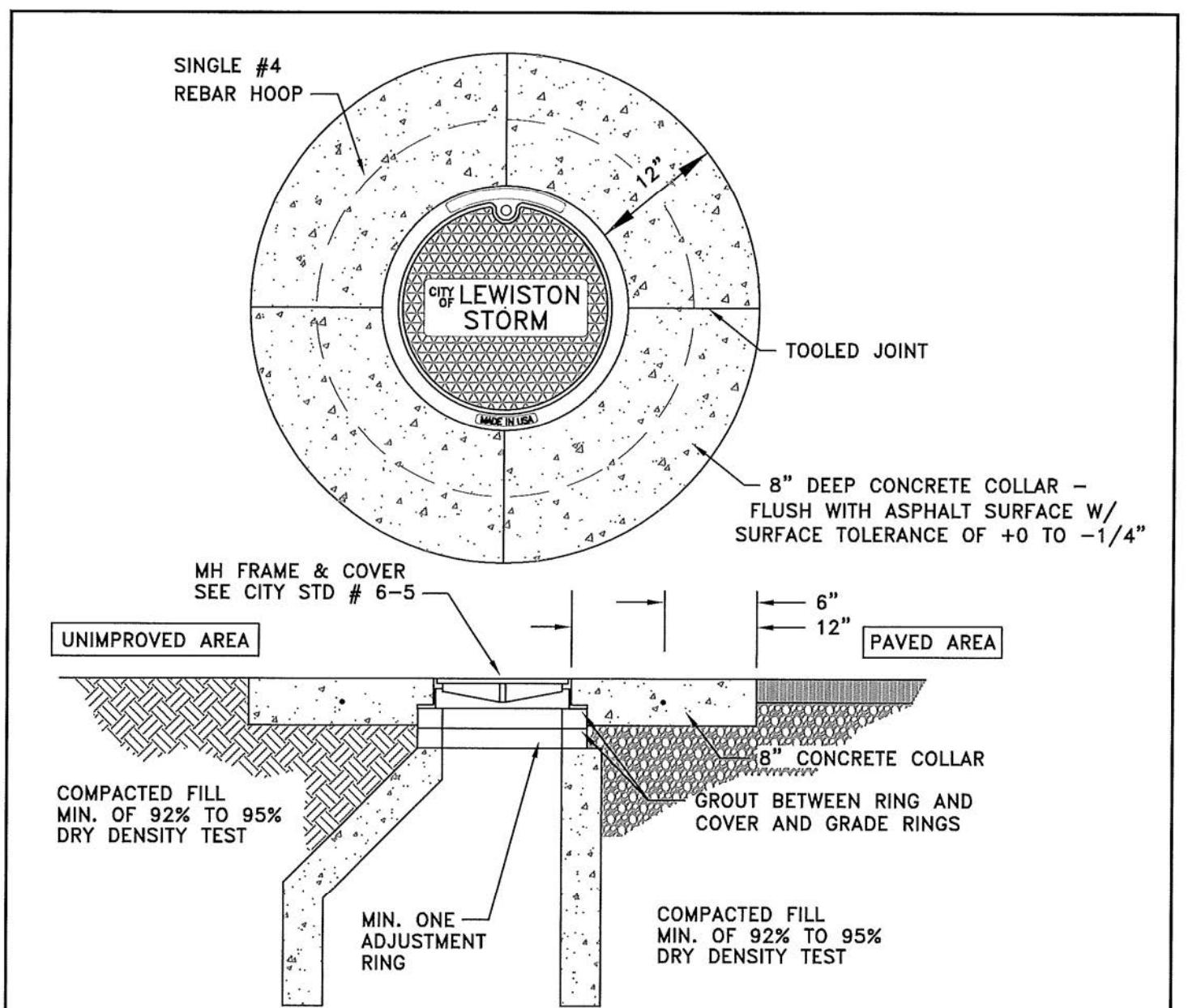
1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.
  2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM
  3. CONNECTION TO MANHOLE SHALL BE MADE USING RESILIENT CONNECTOR CONFORMING TO ASTM C-923 SUCH AS KOR-N-SEAL, A-LOK OR APPROVED EQUAL. HAVE A WALL THICKNESS OF 2" MINIMUM
  4. USE A MINIMUM OF 1/2" OF NON-SHRINK GROUT BETWEEN RISERS, CONE AND FRAME.
  5. RISERS, UNIT SECTIONS AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
  6. SEE DWG NO 6-4 FOR CONCRETE MANHOLE COLLAR

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

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**STORMWATER  
TYPE 1 MANHOLE**

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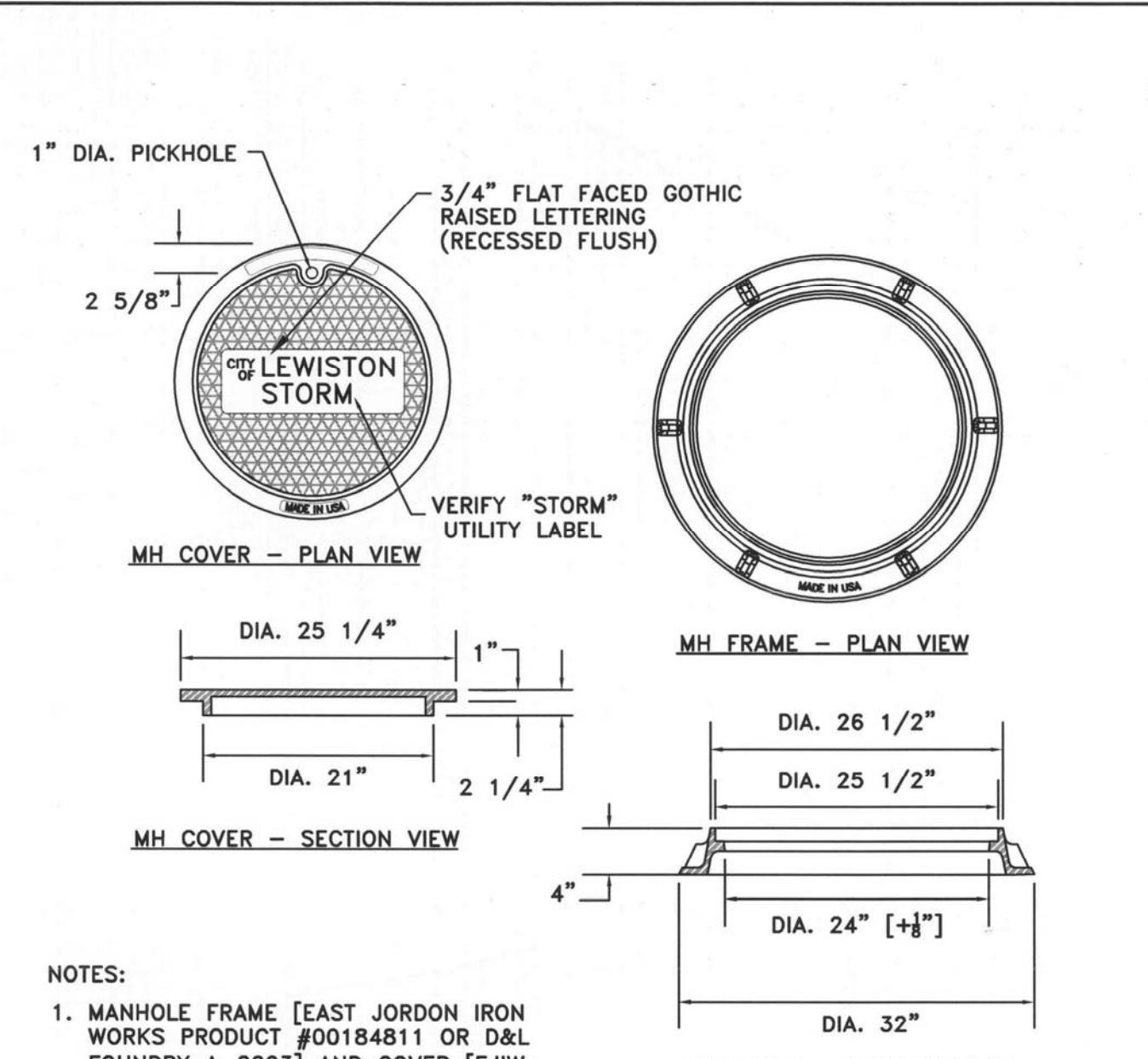


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1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 8" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
  2. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
  3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
  4. UTILITY FRAMES AND LIDS ARE PREFERRED

<p>3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.</p> <p>4. UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.</p>	<p>CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT</p> <p><b>CONCRETE MANHOLE COLLAR</b></p>
<p>APPROVED FOR PUBLICATION <i>John Shaffer 1/27/15</i></p>	<p>DWG. NO. 6-4</p>

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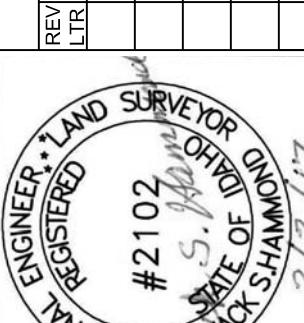
11

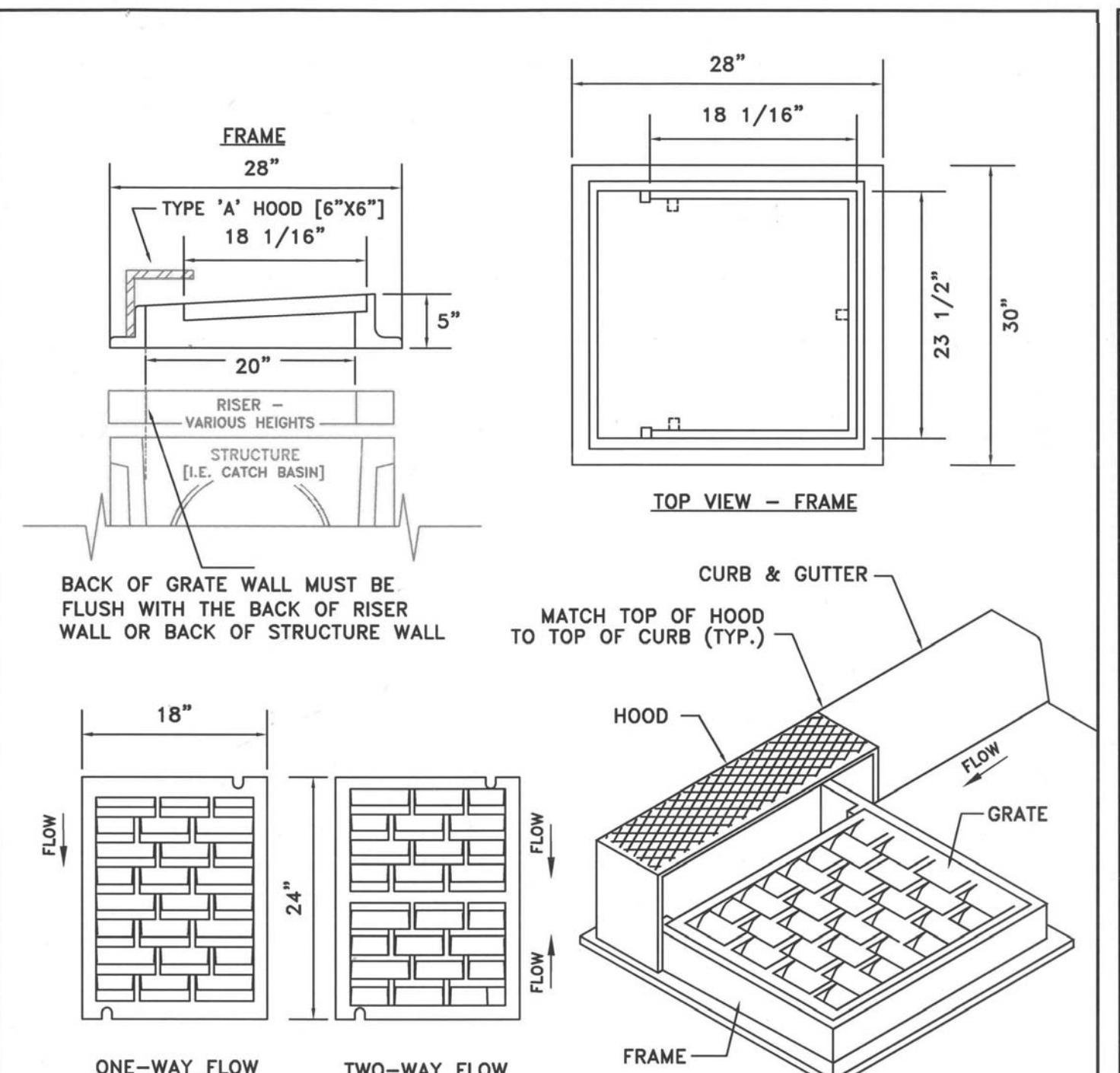
- NOTES:

  1. MANHOLE FRAME [EAST JORDON IRON WORKS PRODUCT #00184811 OR D&L FOUNDRY A-2003] AND COVER [EJIW #00184849 OR D&L A-2010-01] OR OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.; VERIFY "STORM" UTILITY LABEL LETTERING ON COVER.
  2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)

 <b>CITY OF LEWISTON, IDAHO</b> <b>PUBLIC WORKS DEPARTMENT</b>	<b>STORMWATER</b> <b>MANHOLE FRAME</b> <b>AND COVER</b>	APPROVED FOR PUBLICATION <i>[Signature]</i> <u>12/13/10</u> City Engineer      Date	DWG. NO. <b>6-5</b>
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standards\2010-Standards\6-StormSewer\MH Frame Cover.dwg

<b>GENERAL NOTES FOR CATCH BASINS</b>					
<ol style="list-style-type: none"> <li>1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.</li> <li>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 COMPAKTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO T180</li> <li>3. A 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.</li> <li>4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.</li> <li>5. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.</li> <li>6. USE CITY STD DWG NO. 6-7 FOR CATCH BASIN FRAME AND GRATE.</li> <li>7. REDUCTION SLAB, RISERS, AND FRAME &amp; GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.</li> <li>8. MAXIMUM DEPTH FROM FINISHED GRADE TO PIPE INVERT IS 5 FEET.</li> <li>9. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.</li> <li>10. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.</li> <li>11. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3' ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.</li> </ol>					
 <p><b>CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT</b></p> <p><b>STORMWATER GENERAL CATCH BASIN NOTES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">APPROVED FOR PUBLICATION <i>Lawn Shubness</i> City Engineer</td> <td style="padding: 5px;">DWG. NO. 12/13/16</td> </tr> </table> <p><b>STORMWATER GENERAL CATCH BASIN NOTES</b></p>				APPROVED FOR PUBLICATION <i>Lawn Shubness</i> City Engineer	DWG. NO. 12/13/16
APPROVED FOR PUBLICATION <i>Lawn Shubness</i> City Engineer	DWG. NO. 12/13/16				
<b>STORMWATER GENERAL CATCH BASIN NOTES</b>	<b>SCALE</b> D	<b>SHEET SIZE</b> D	<b>REVISION</b> REV LTR		
<b>DRAWN BY</b> MEE 03-03-17	<b>CHECKED BY</b> JSH 1650	<b>DESCRIPTION</b> #2102 S. JACK SHAMMON	<b>CHECKED</b> APPD.		
<b>DATE</b> SHEET	<b>JOB #</b> C26	<b>DATE</b> 3/3/17	<b>STATE OF IDAHO</b> <b>LAND SURVEYOR</b> <b>PROFESSIONAL REGISTERED</b> #2102 S. JACK SHAMMON		
<b>DRAWING #</b>	<b>1650-C26</b>				



## NOTES:

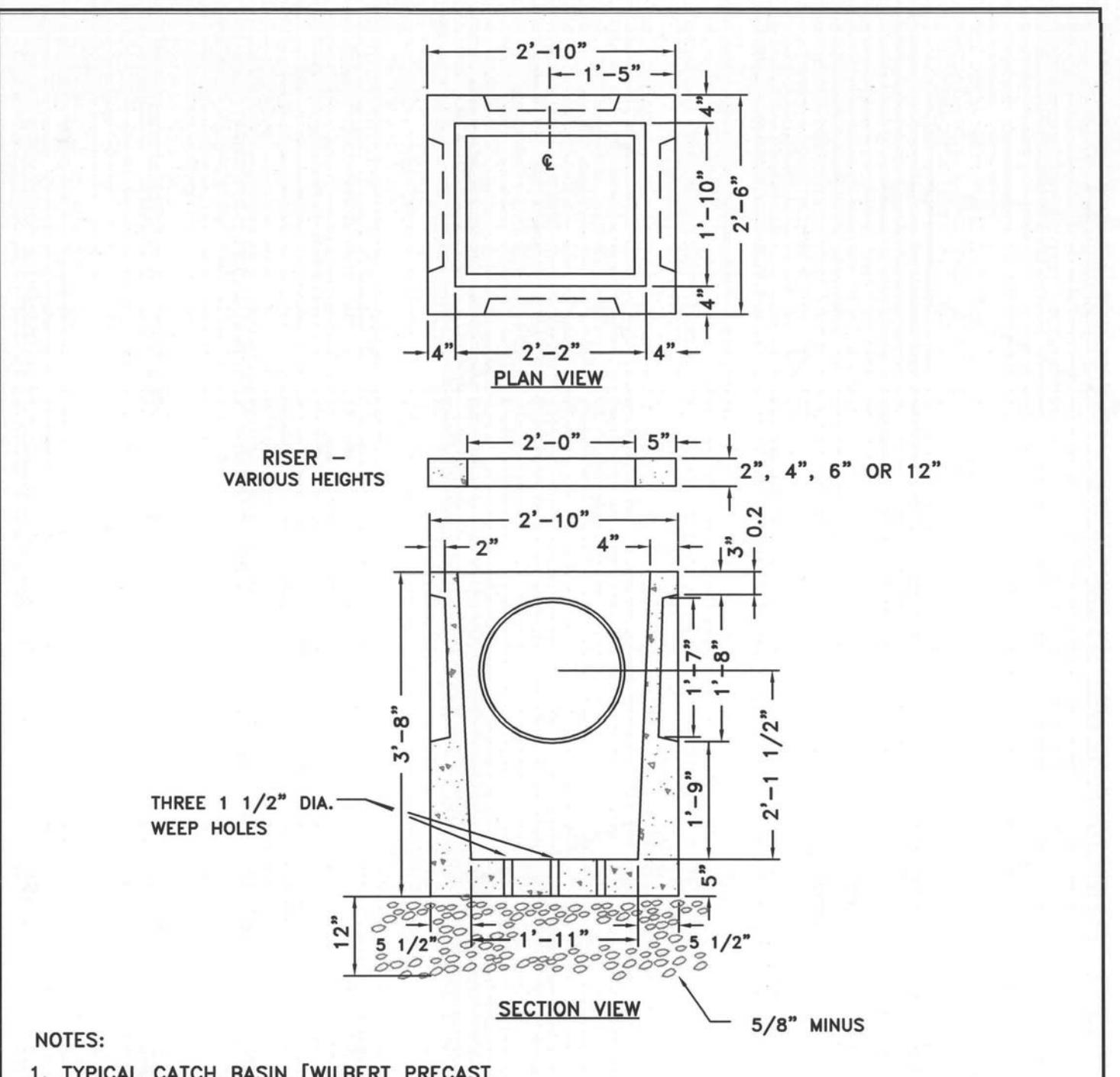
1. CURB INLET CATCH BASIN FRAME [D & L SUPPLY - PRODUCT I-4434], GRATE AND HOOD OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
  2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)
  3. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASINS'.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

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STORMWATER  
CATCH BASIN FRAME  
AND GRATE

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1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
  2. SEE CITY DWG 6-6 'GENERAL NOTES FOR

**CITY OF LEWISTON, IDAHO**  
**PUBLIC WORKS DEPARTMENT**

**STORMWATER**  
**TYPE 1 CATCH BASIN**

Deann Miller 12/13/10 6-8  
City Engineer Date