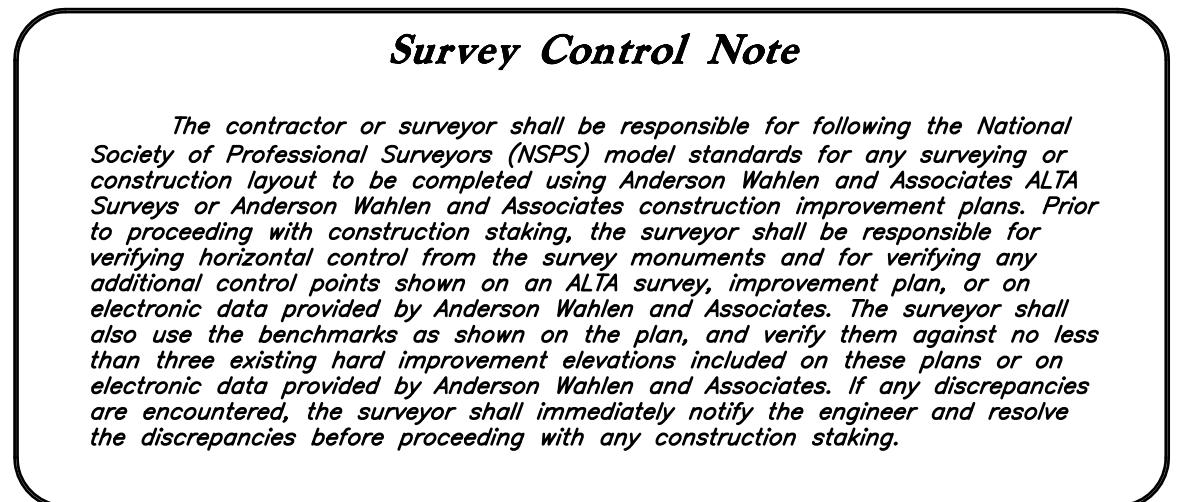
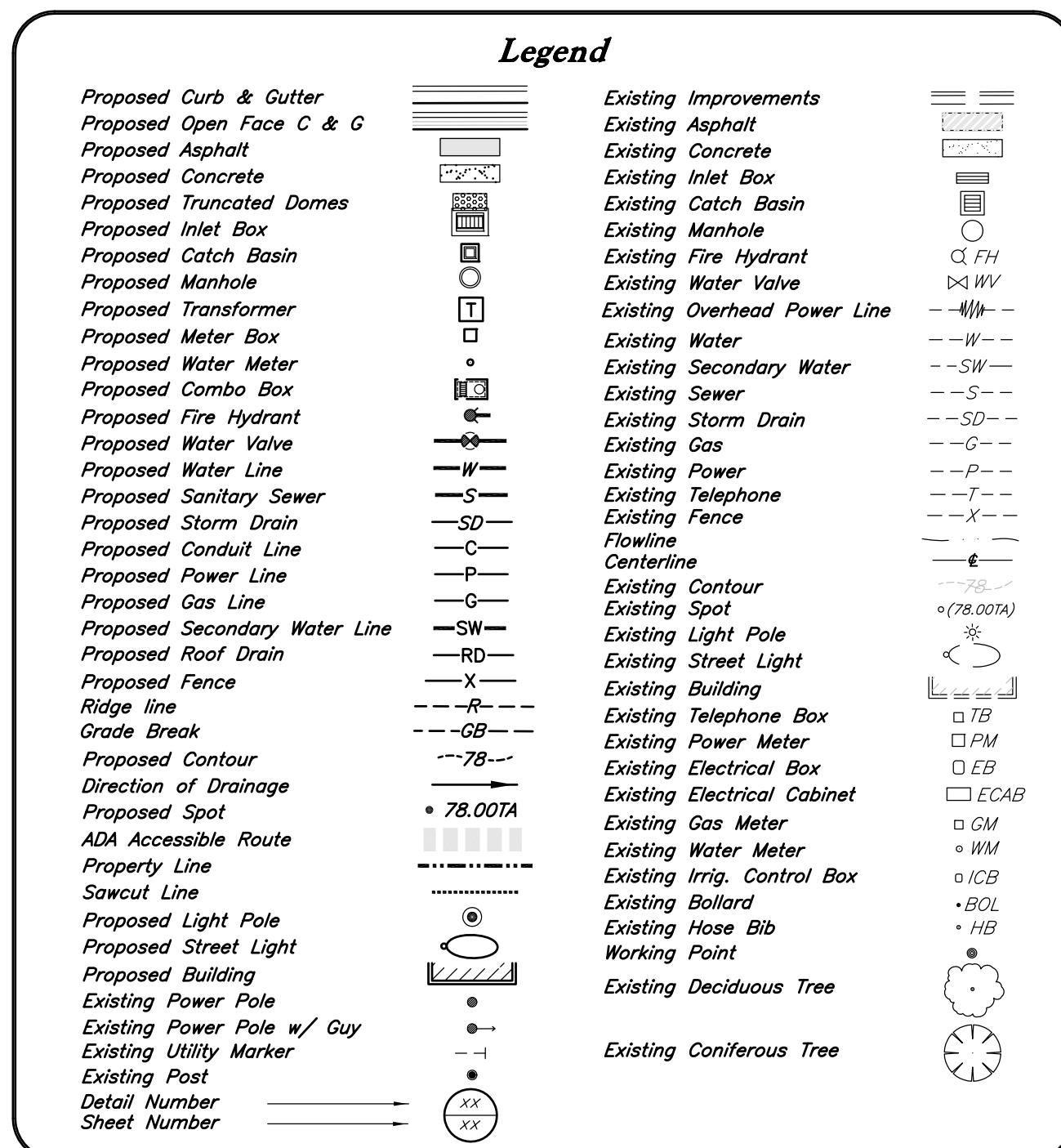


# Cedar Hills Retail Center

4800 West Cedar Hills Drive  
Cedar Hills, Utah



Abbreviations	
BOL	Bollard
BRW	Finish Grade - Bottom of Retaining Wall
CATV	Cable Television Box
CB	Catch Basin
CMP	Corrugated Metal Pipe
COB	Cleanout Box
COTG	Cleanout to Grade
EA	Edge of Asphalt
EB	Electrical Box
ECAB	Electrical Cabinet
EMH	Electrical Manhole
FH	Fire Hydrant
FL	Flowline
g	Ground
GB	Grade Break
GM	Gas Meter
HB	Hose Bib
I	Irrigation Line
ICB	Irrigation Control Box
Lip	Lip of Gutter
LP	Light Pole
MH	Manhole
Mon	Monument
PM	Power Meter
PP	Power Pole
PVC	Poly Vinyl Chloride
RCP	Reinforced Concrete Pipe
RD	Roof Drain
SB	Signal Box
SD	Storm Drain
SDMH	Storm Drain Manhole
SMH	Sanitary Sewer Manhole
SP	Signal Pole
SS	Sanitary Sewer
SVZ	Sight Visibility Zone
SW	Secondary Water
TA	Top of Asphalt
TB	Telephone Box
TBC	Top Back of Curb
TG	Top of Grate
TMH	Telephone Manhole
TP	Top of Concrete
TRW	Finish Grade - Top of Retaining Wall
TW	Top of Walk
WL	Waterline
WP	Working Point
WV	Water Valve



Vicinity Map  
Not to Scale

## Civil Sheet Index

- CV** Cover Sheet
- ALTA Survey**
- Subdivision Plat**
- C0.1** Demolition Plan
- C1.1** Site Plan
- C2.1** Grading Plan
- C3.1** Utility Plan
- C4.1** Detail Sheet
- C4.2** Detail Sheet
- C4.3** Detail Sheet
- C4.4** Detail Sheet
- C5.1** Erosion Control Plan
- L1.1** Landscape Plan
- L3.1** Landscape Details

### ADA Note

**ADA Note:**  
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The curb slopes for accessible routes must be no steeper than 2.0% (1:50). All accessible routes must have a minimum clear width of 36". If grades or plans do not meet this requirement, notify Consultant immediately.  
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA (ICC/ANSI A117.1-Latest Edition) and/or FHAA.

### Private Engineers Notice to Contractors

**The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.**

### Flood Zone

This property lies entirely within Flood Zone X as designated on FEMA Flood Insurance Rate Map for Utah County (unincorporated areas) Community Panel No. 4955170110 B dated July 17, 2002. Flood Zone X is defined as "areas determined to be outside 500-year floodplain." (No Shading)

### Basis of Bearings

A line between monuments found the West Quarter Corner and the Northwest Corner of Section 6 was assigned the Utah County bearing of N 0°2'42" W as the Basis of Bearings to retrace and honor the previous Survey.



13 Mar, 2014

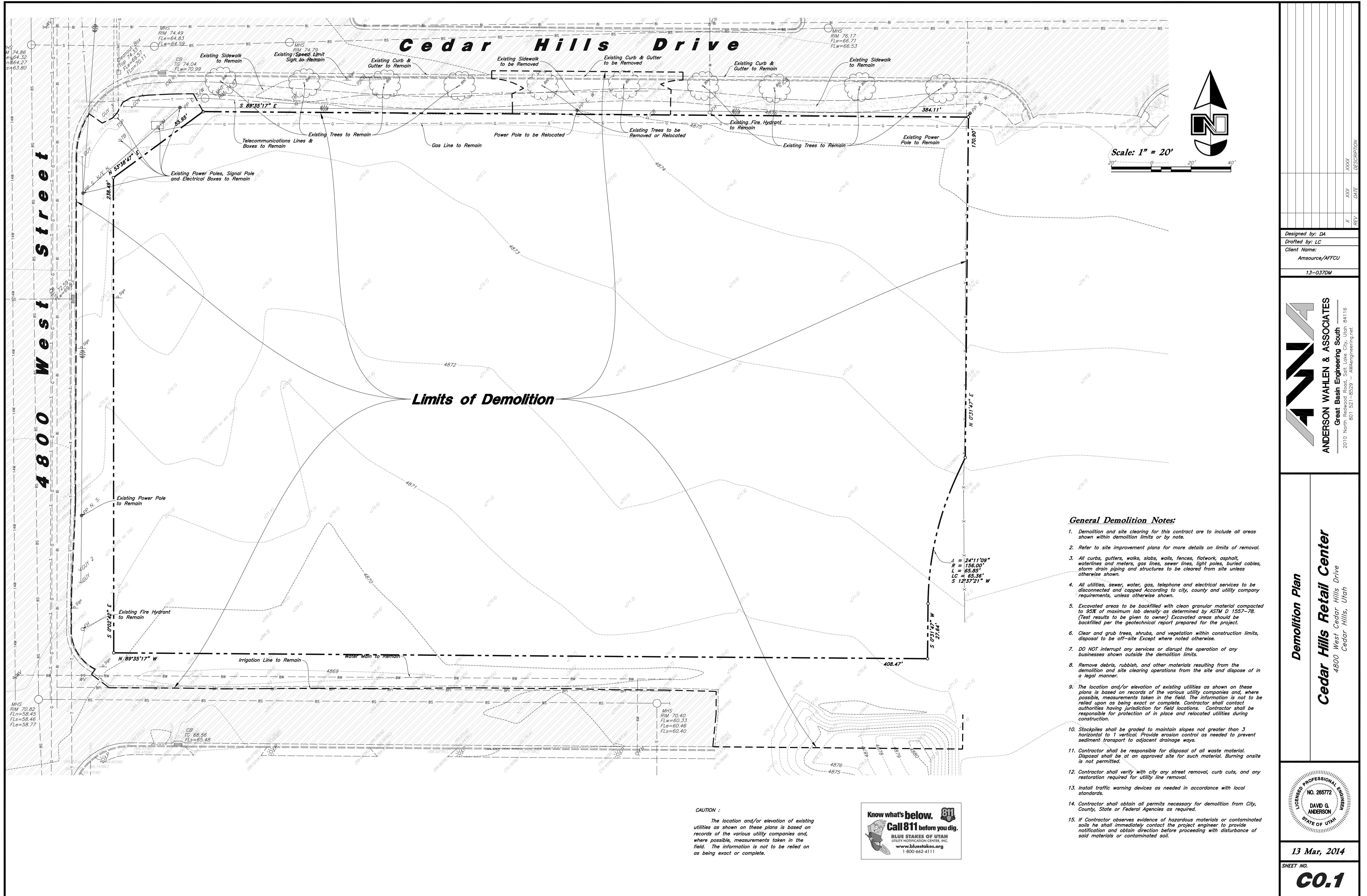
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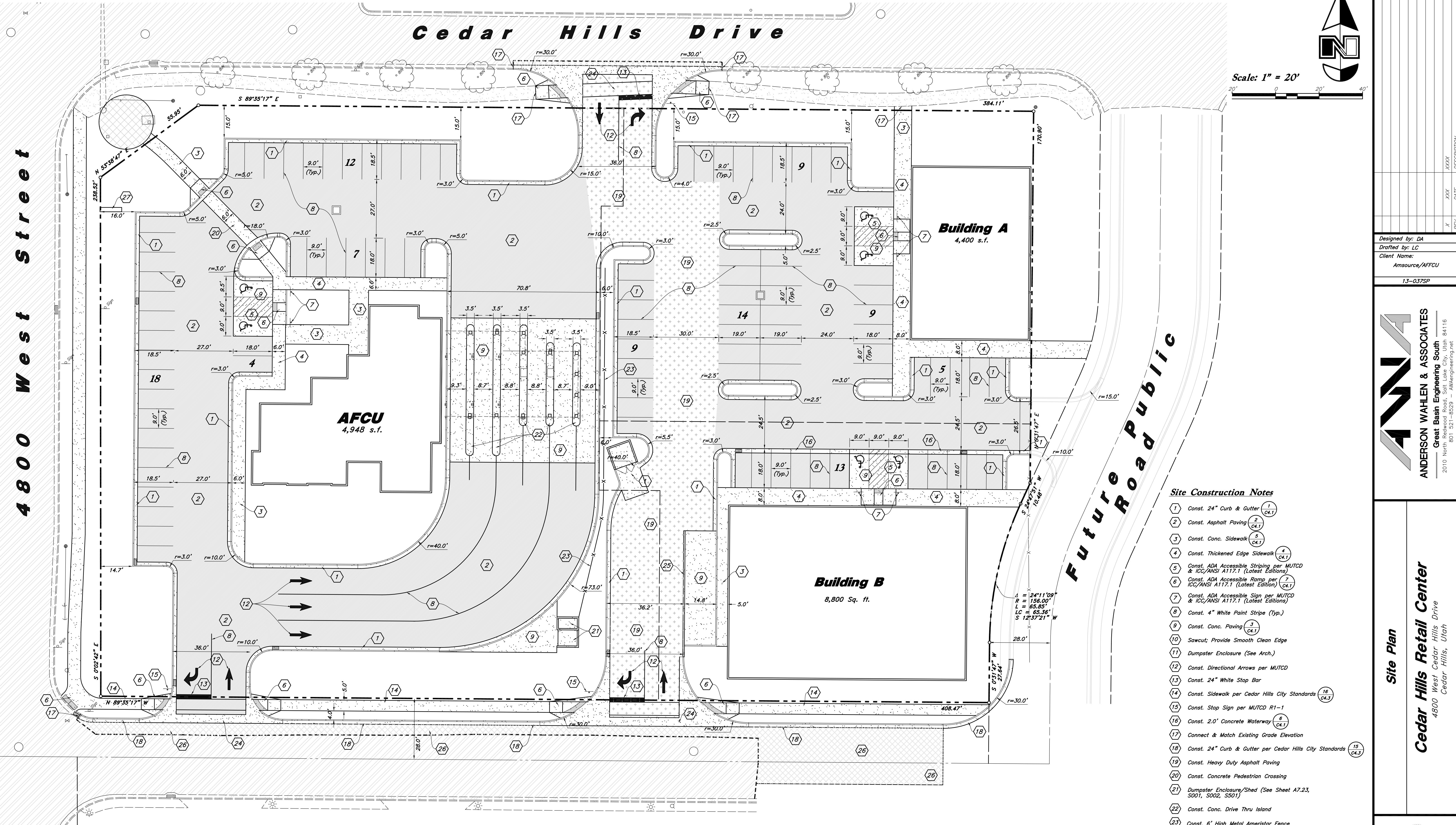
**CV**

**ANDERSON WAHLEN & ASSOCIATES**  
Great Basin Engineering South

2010 North Reedwood Road, Salt Lake City, Utah 84116  
801-521-8529 - [www.engineering.net](http://www.engineering.net)

Designed by: DA	X	XXX
Drafted by: LC		
Client Name:		
Amsource/AFFCU		
13-037GR		
REV:		
DATE:		
DESCRIPTION:		





**Site Plan**

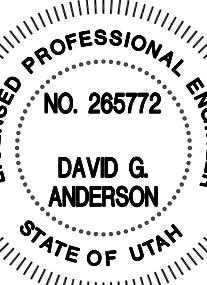
**Cedar Hills Retail Center**

4800 West Cedar Hills Drive  
Cedar Hills, Utah

**ANDERSON WAHLEN & ASSOCIATES**

**Great Basin Engineering South**

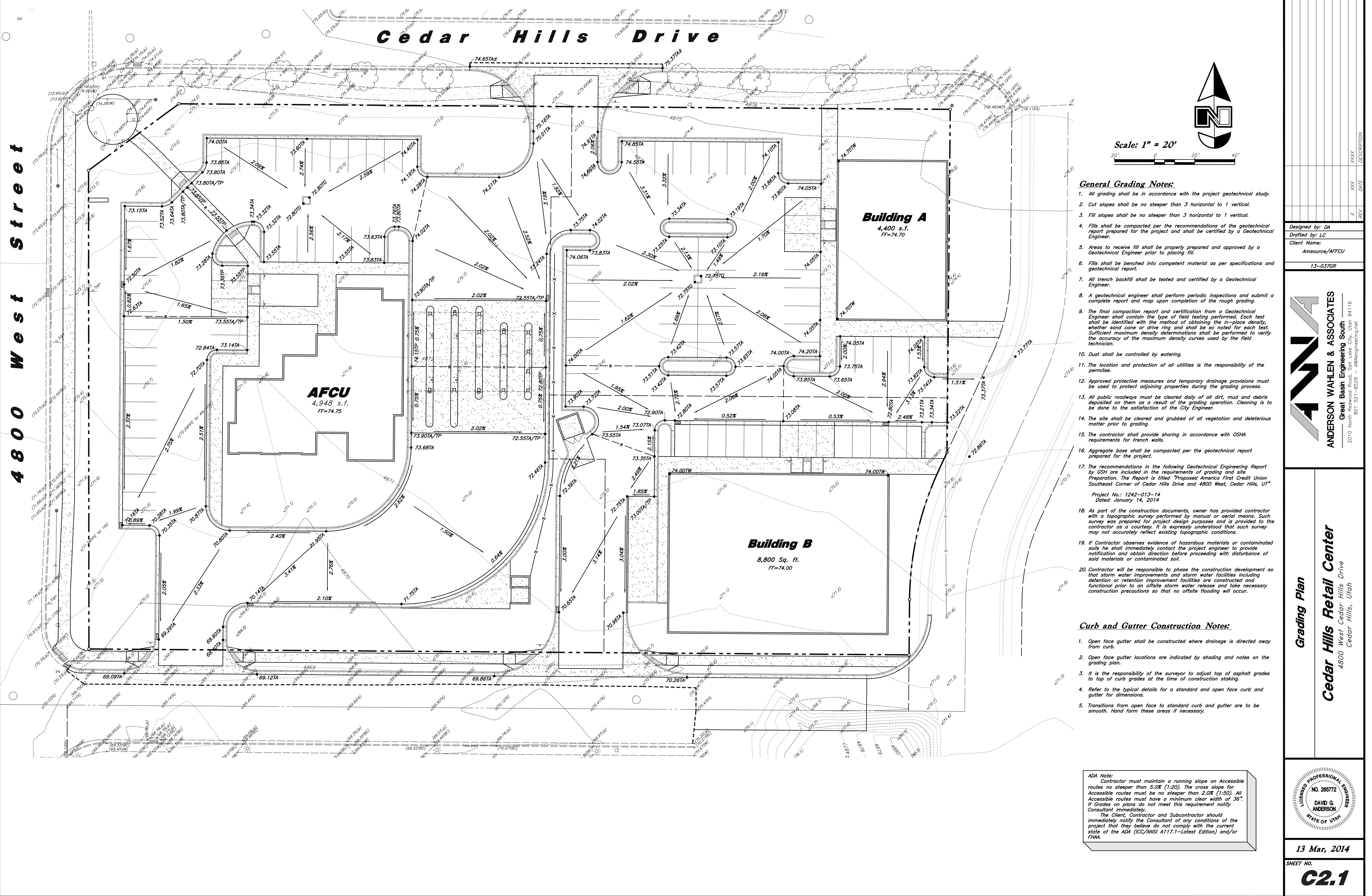
2010 North Redwood Road, Salt Lake City, Utah 84116  
801-521-8529 - [www.engineering.net](http://www.engineering.net)

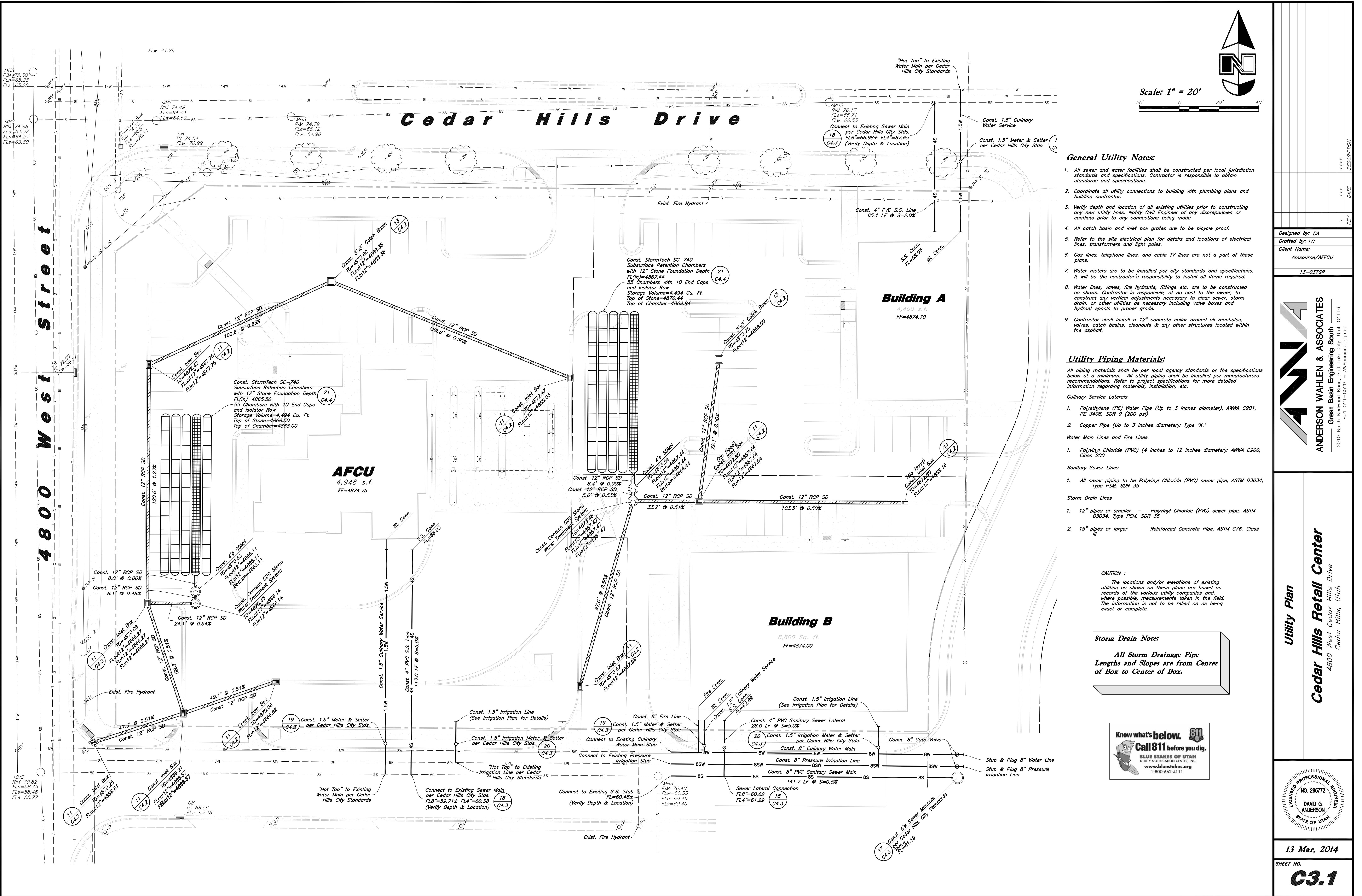


13 Mar, 2014

SHEET NO.

**C1.1**





1. REINFORCEMENT: ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.

- Space rebar and dowels at 12 to 15 inches on center.
- Grease dowels to provide movement in expansion joints.
- Keep tie bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.

2. SAWING: Keep at least 3 working power saws on-site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommended by sealant manufacturer and approved by ENGINEER.

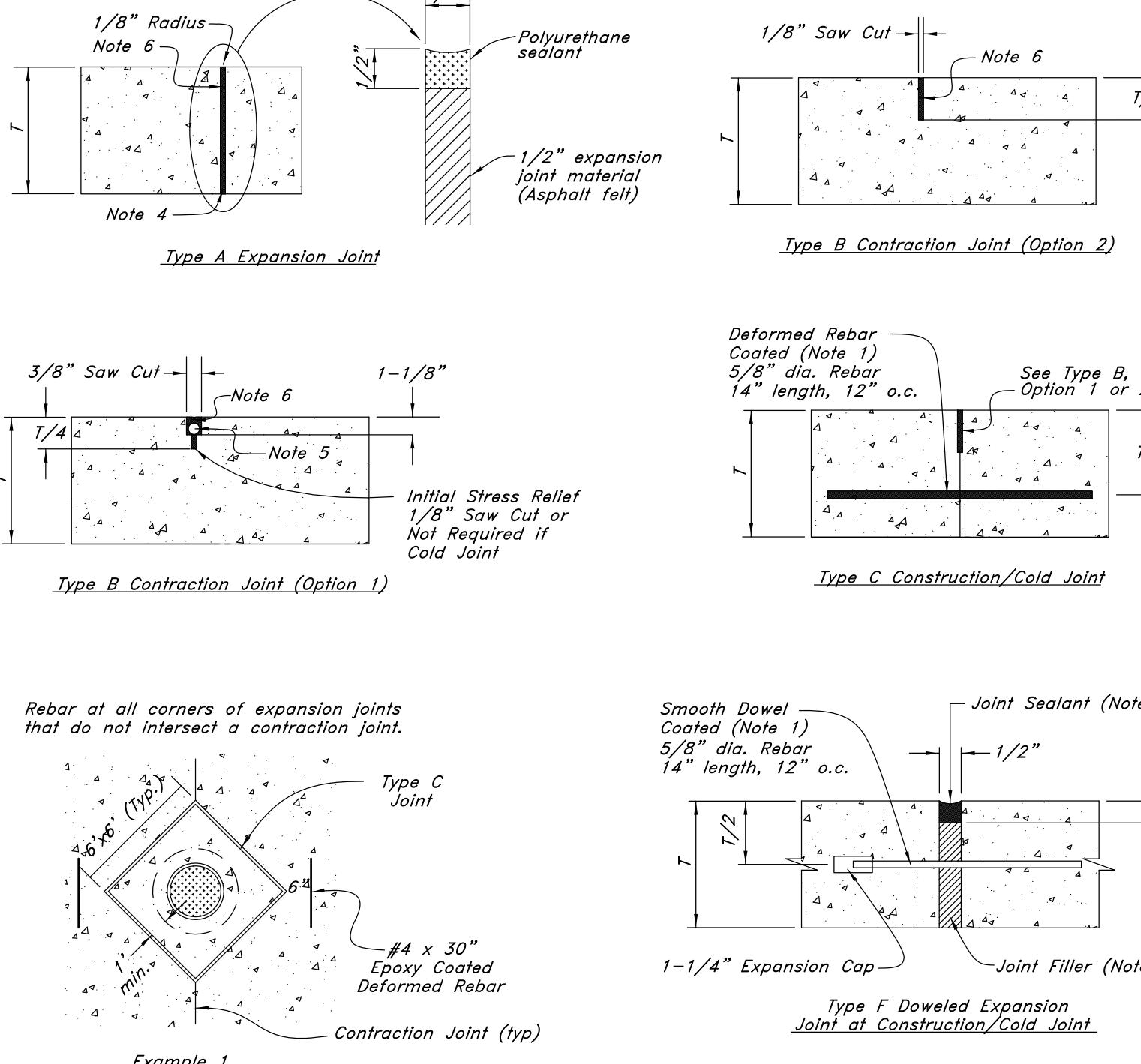
3. JOINTS: Lay out joints to aid construction and control random cracking.

- Joint Spacing shall be 12 feet maximum on center in both directions.
- Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.
- Make adjustments in joint locations to meet inlet or manhole locations.
- Expansion Joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.

4. JOINT FILLER: Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass-fiber felt extending to the bottom of the concrete slab.

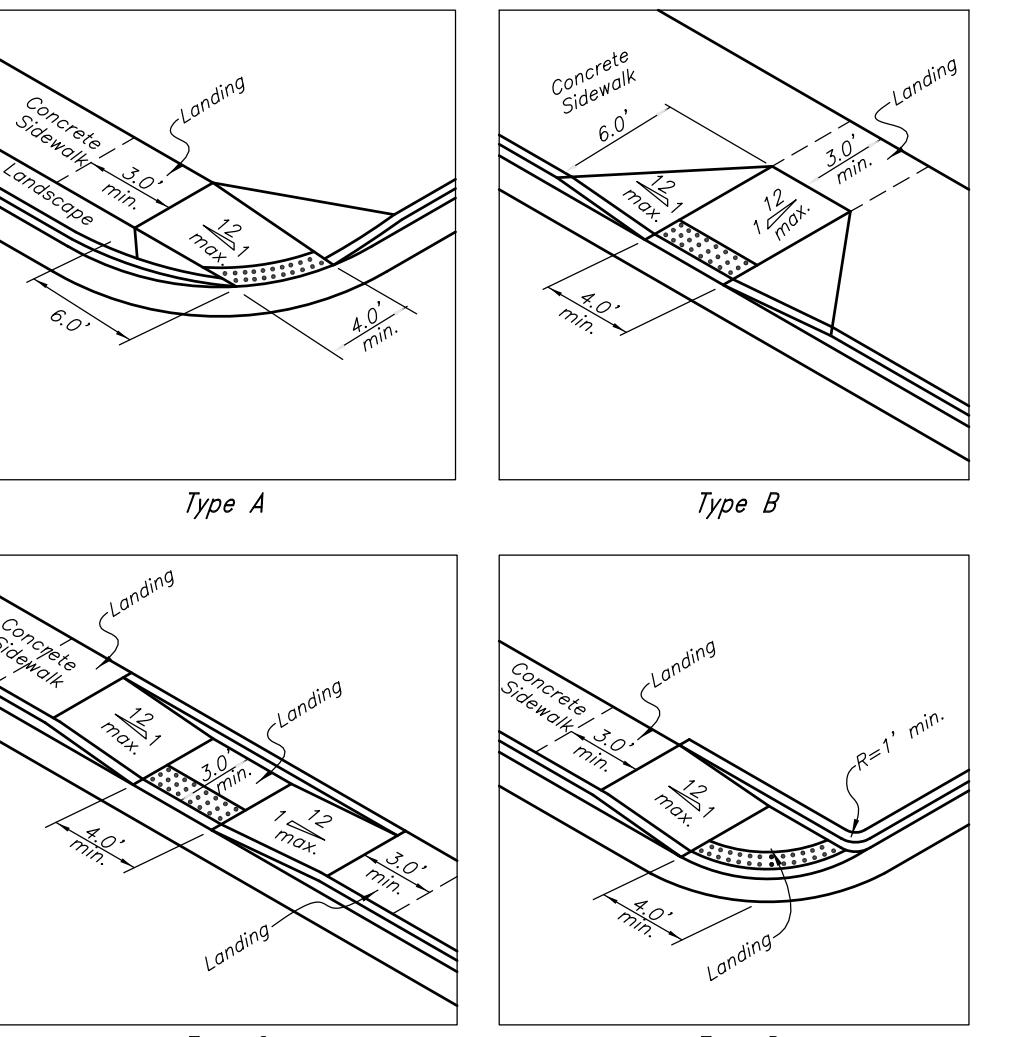
5. BACKER ROD: Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.

6. JOINT SEALANT: Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.



## Concrete Joint Detail

Not to Scale

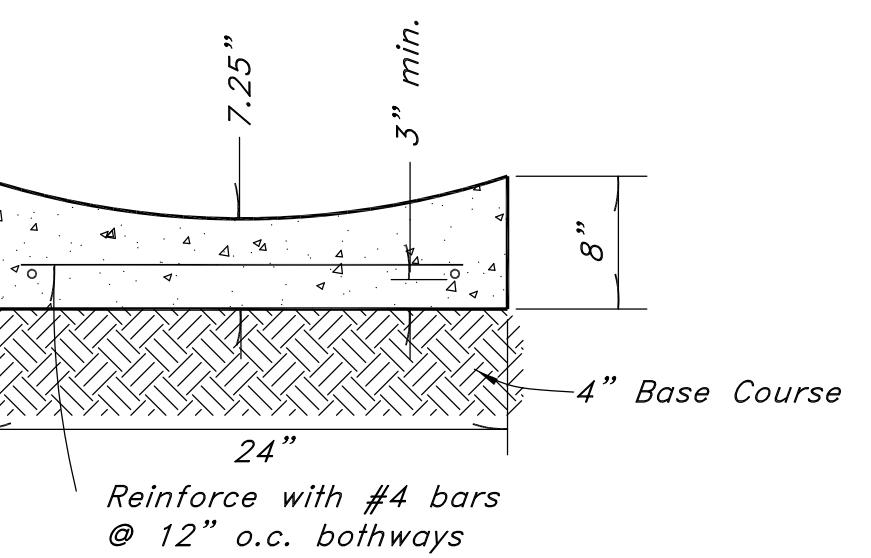


## Curb Ramp Detail

Not to Scale

Contraction Joints

- Spacing = 10' o.c.
- 1/8" wide by 2" deep

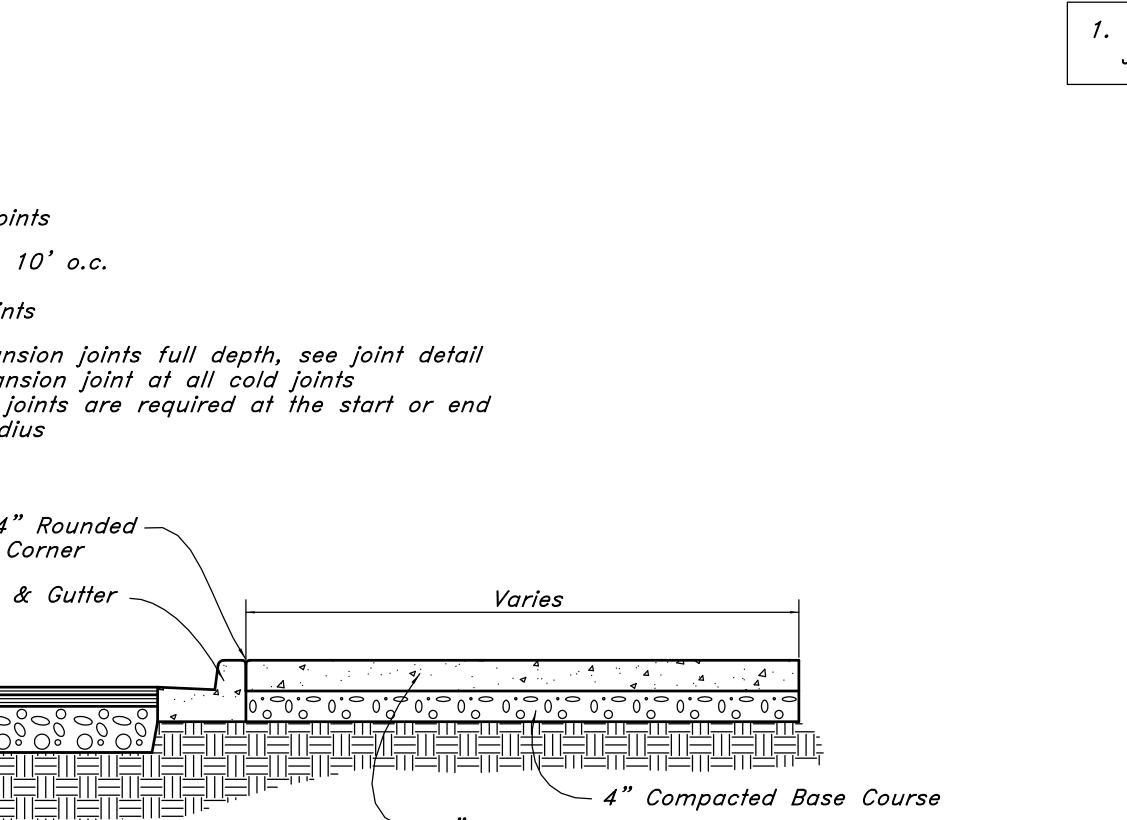


1. See Concrete Joint Detail

1. See Geotechnical Report for Project for further details  
2. See Concrete Joint Detail

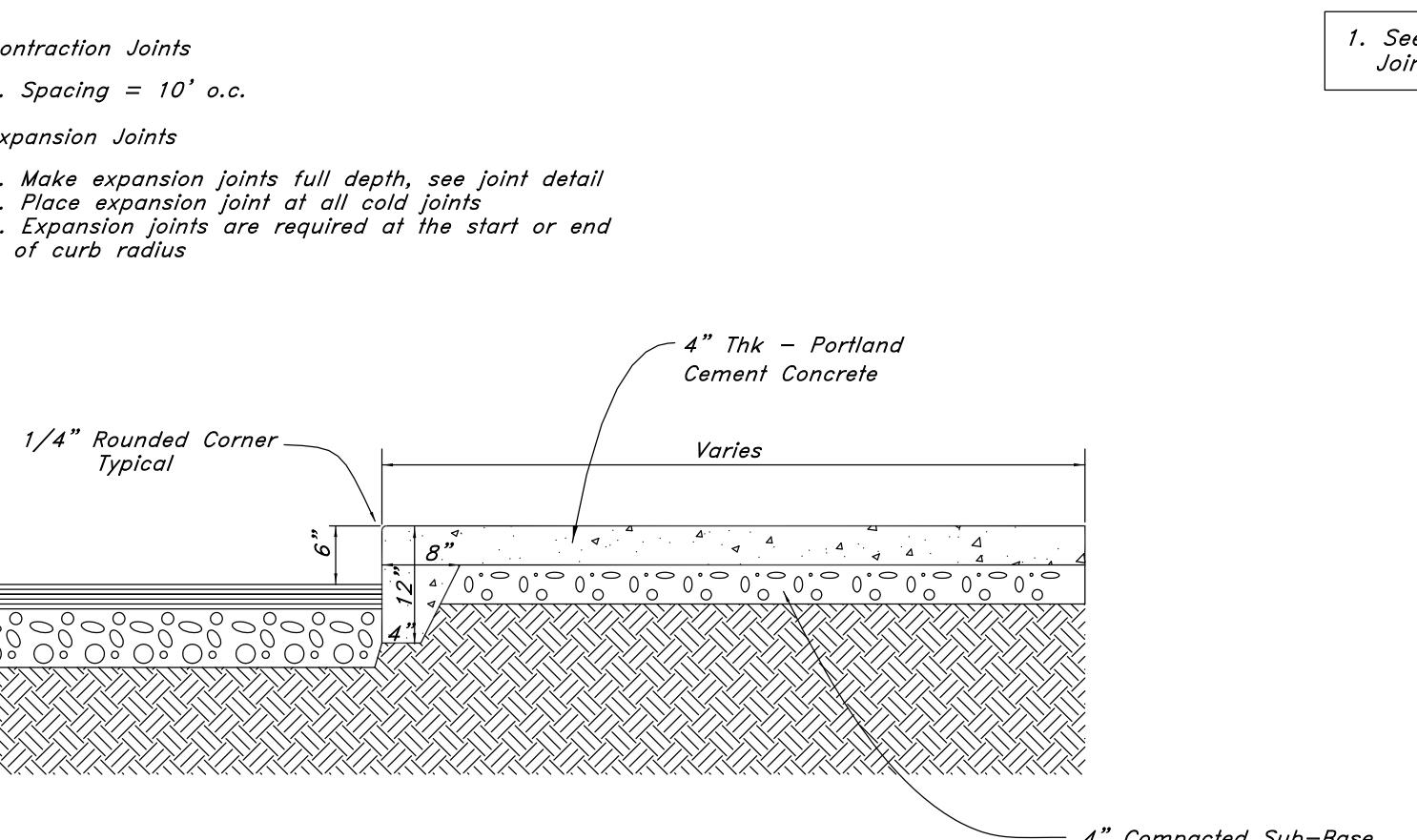
## Typical Sidewalk Detail

Not to Scale



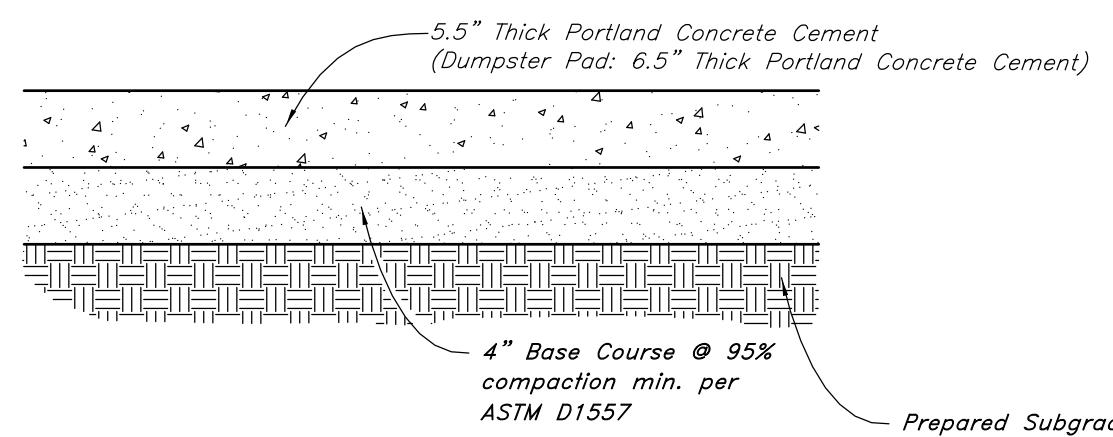
## Typical Sidewalk Detail

Not to Scale



## Thickened Edge Walk

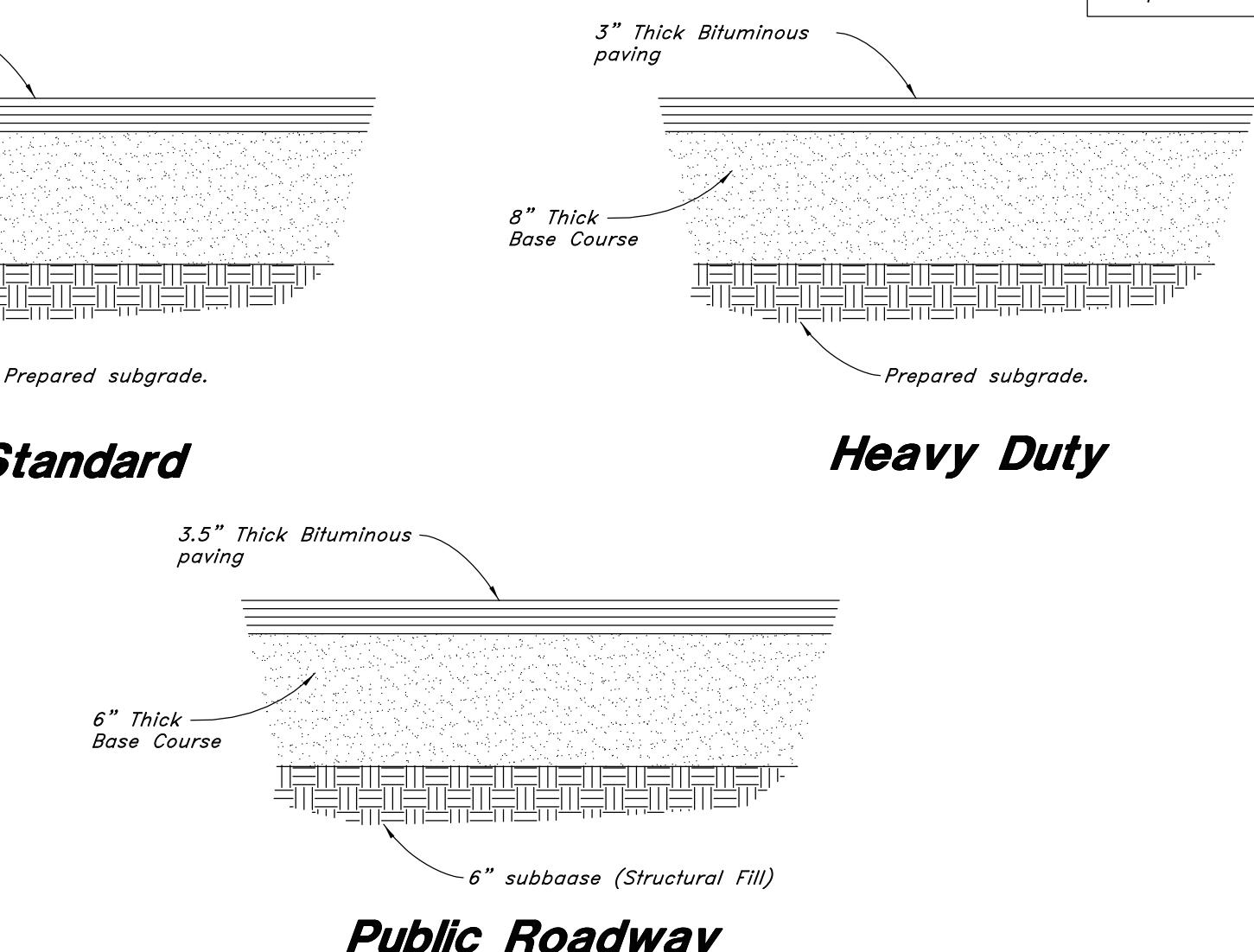
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## Concrete Paving Section

Not to Scale

See Geotechnical Report for Project



## Asphalt Section

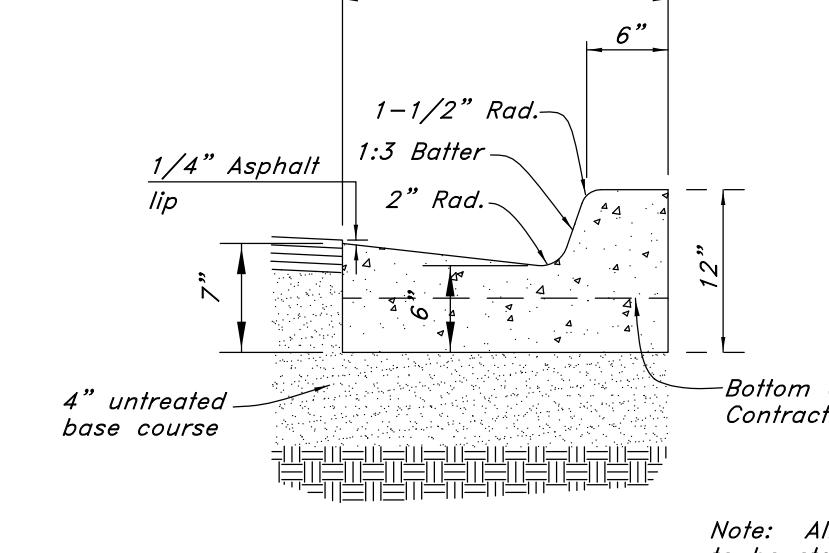
Not to Scale

Contraction Joints

- Spacing = 10' o.c.

Expansion Joints

- Make expansion joints full depth, see joint detail
- Place expansion joint at all cold joints
- Expansion joints are required at the start or end of curb radius



## 24" Curb And Gutter

Not to Scale

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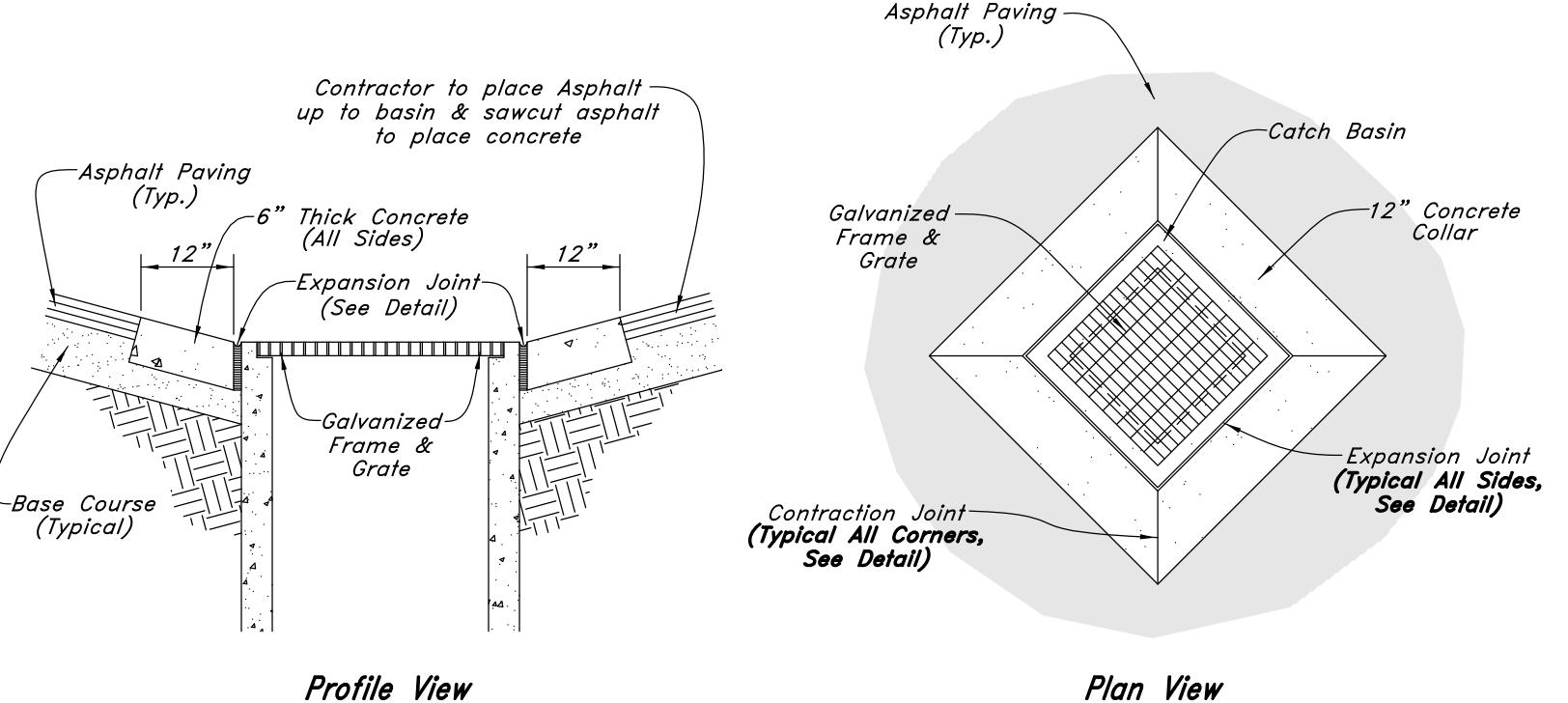
**Detail Sheet**

**Cedar Hills Retail Center**  
4800 West Cedar Hills Drive  
Cedar Hills, Utah

13 Mar, 2014

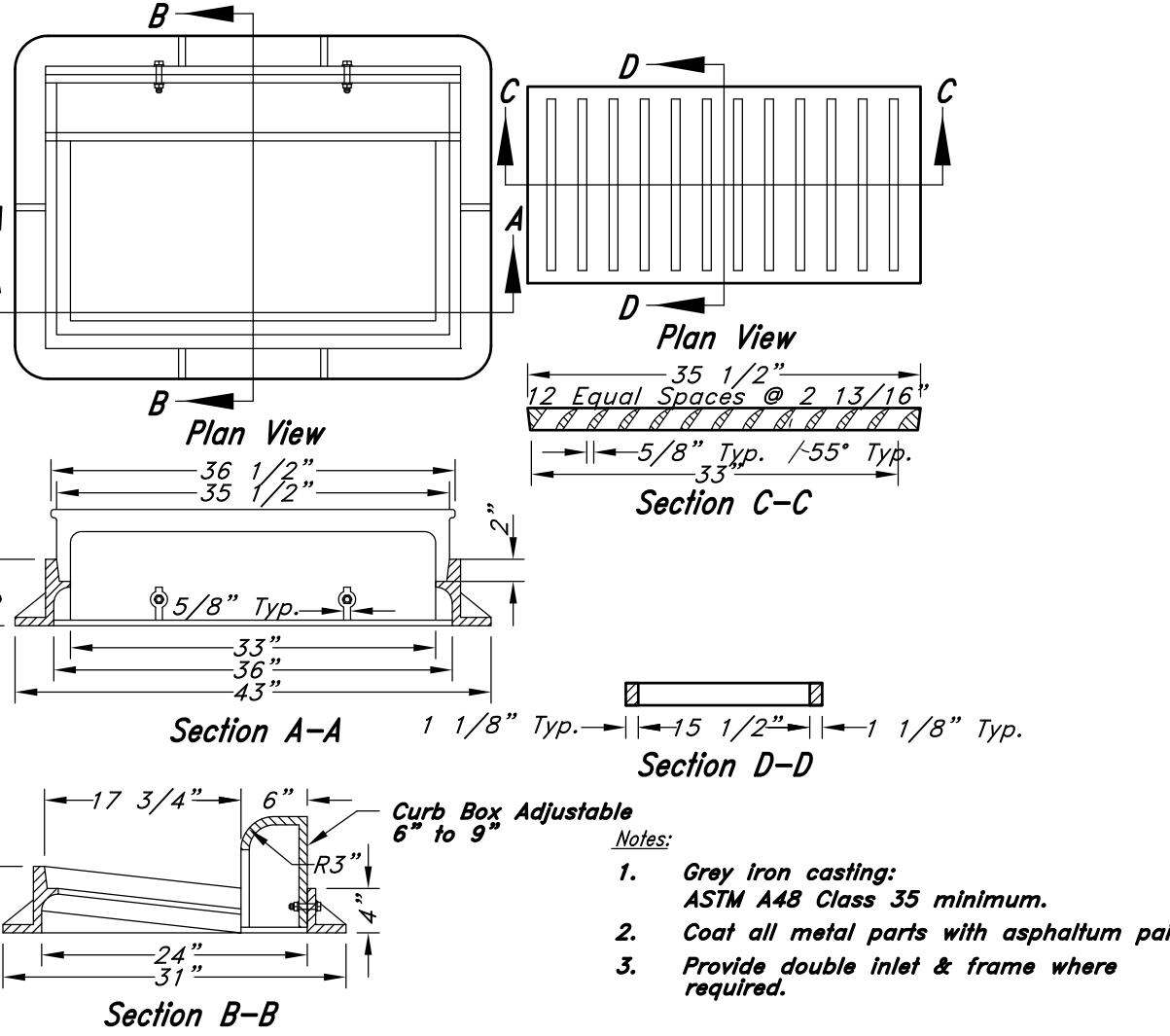
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**C4.1**



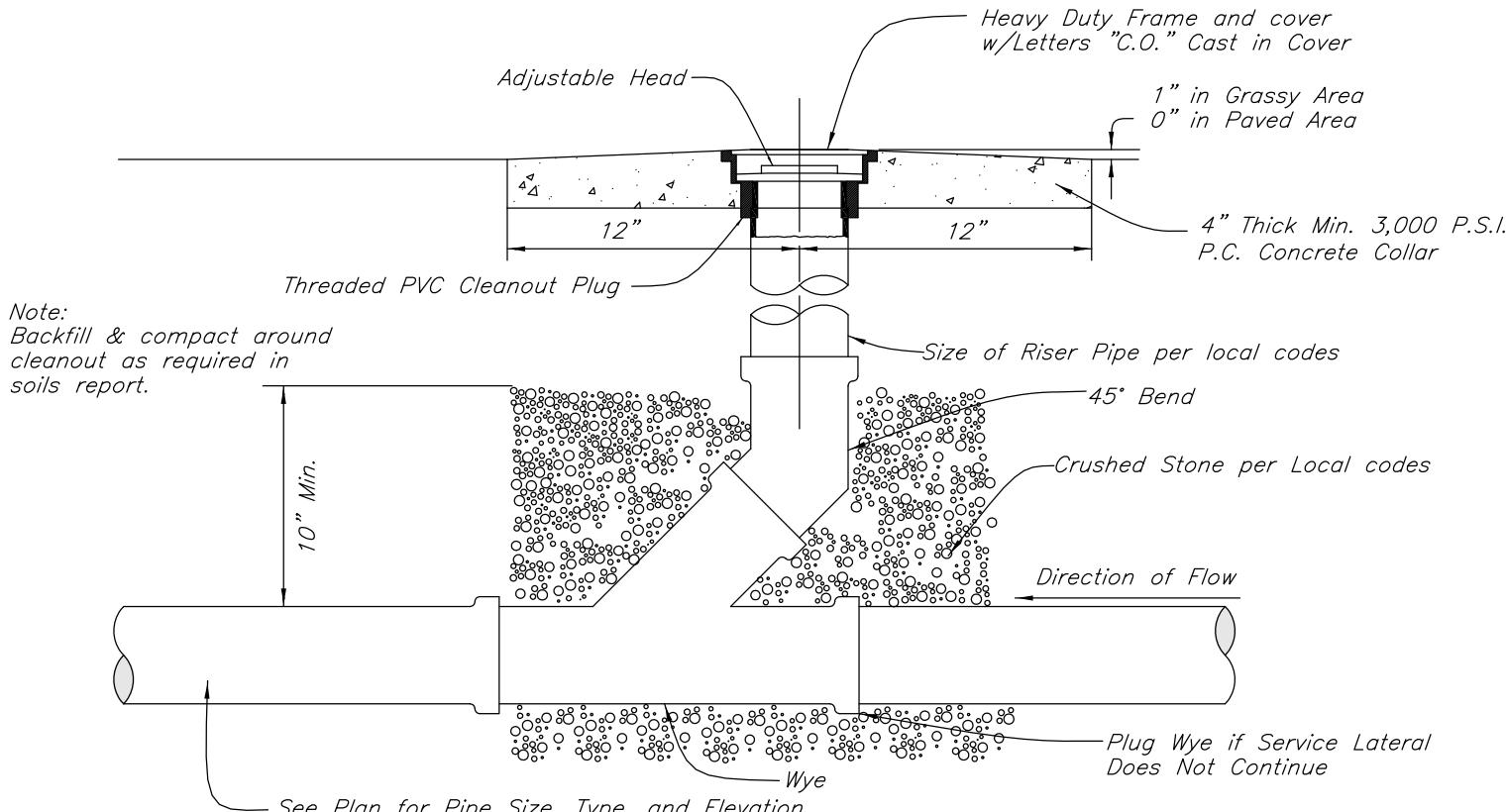
**14 12" Concrete Collar**

Not to Scale



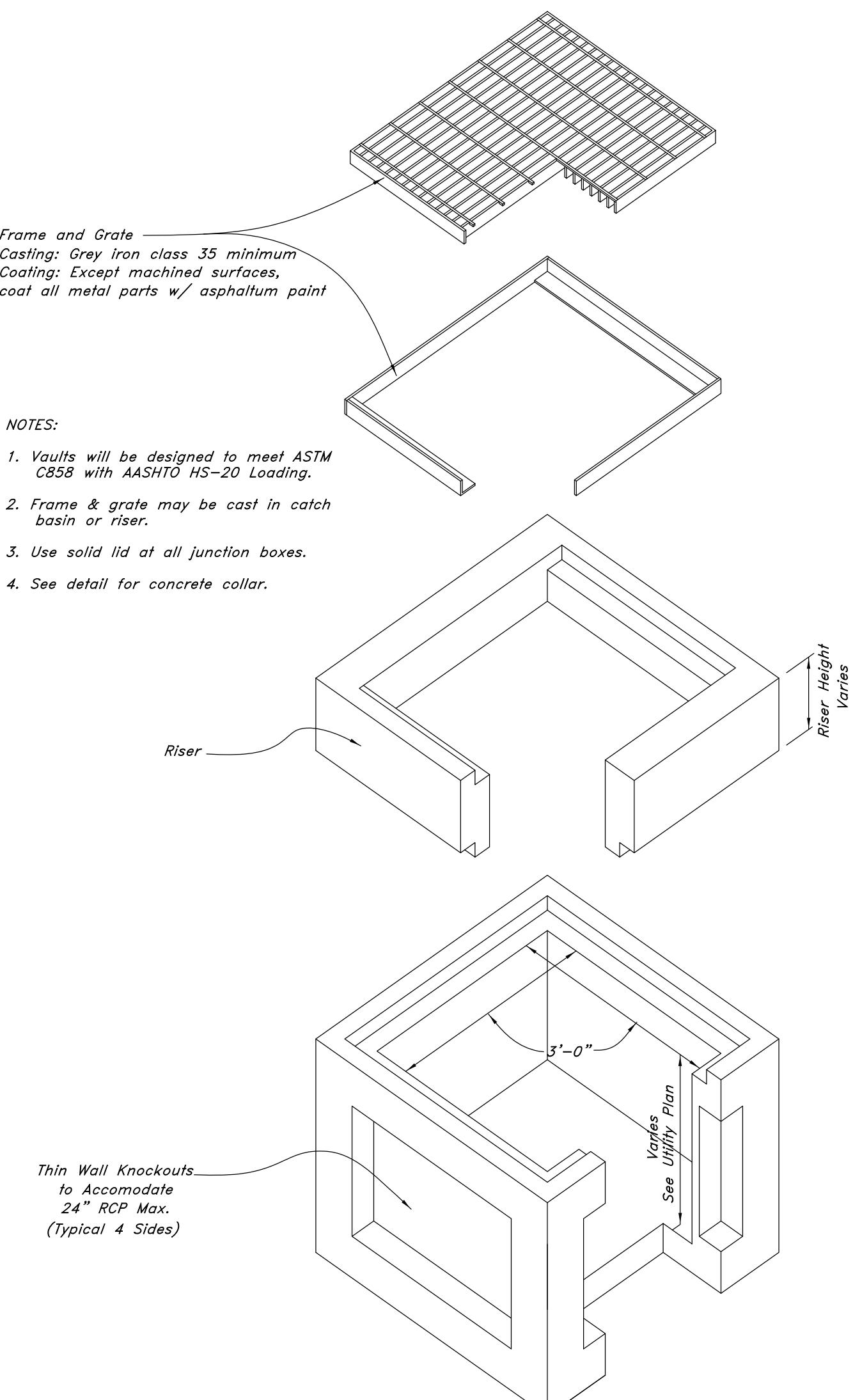
**12 Inlet Grate Frame**

Not to Scale



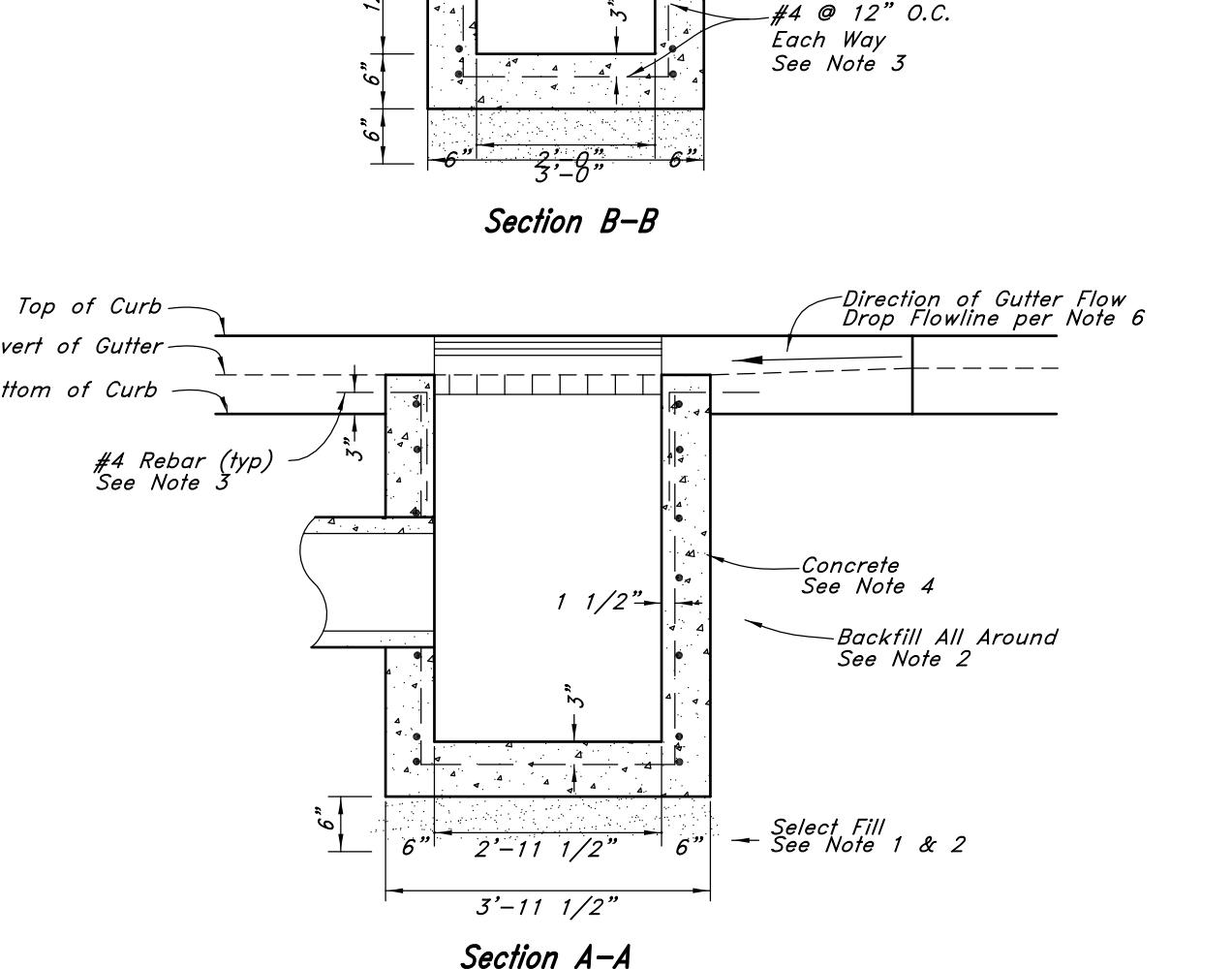
**10 Cleanout**

Not to Scale



**13 Precast 36" x 36" Catch Basin**

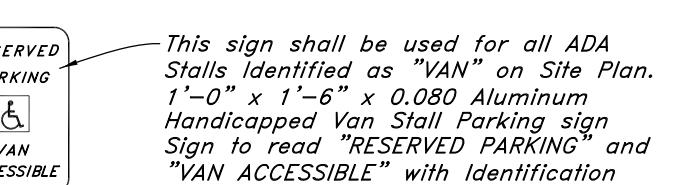
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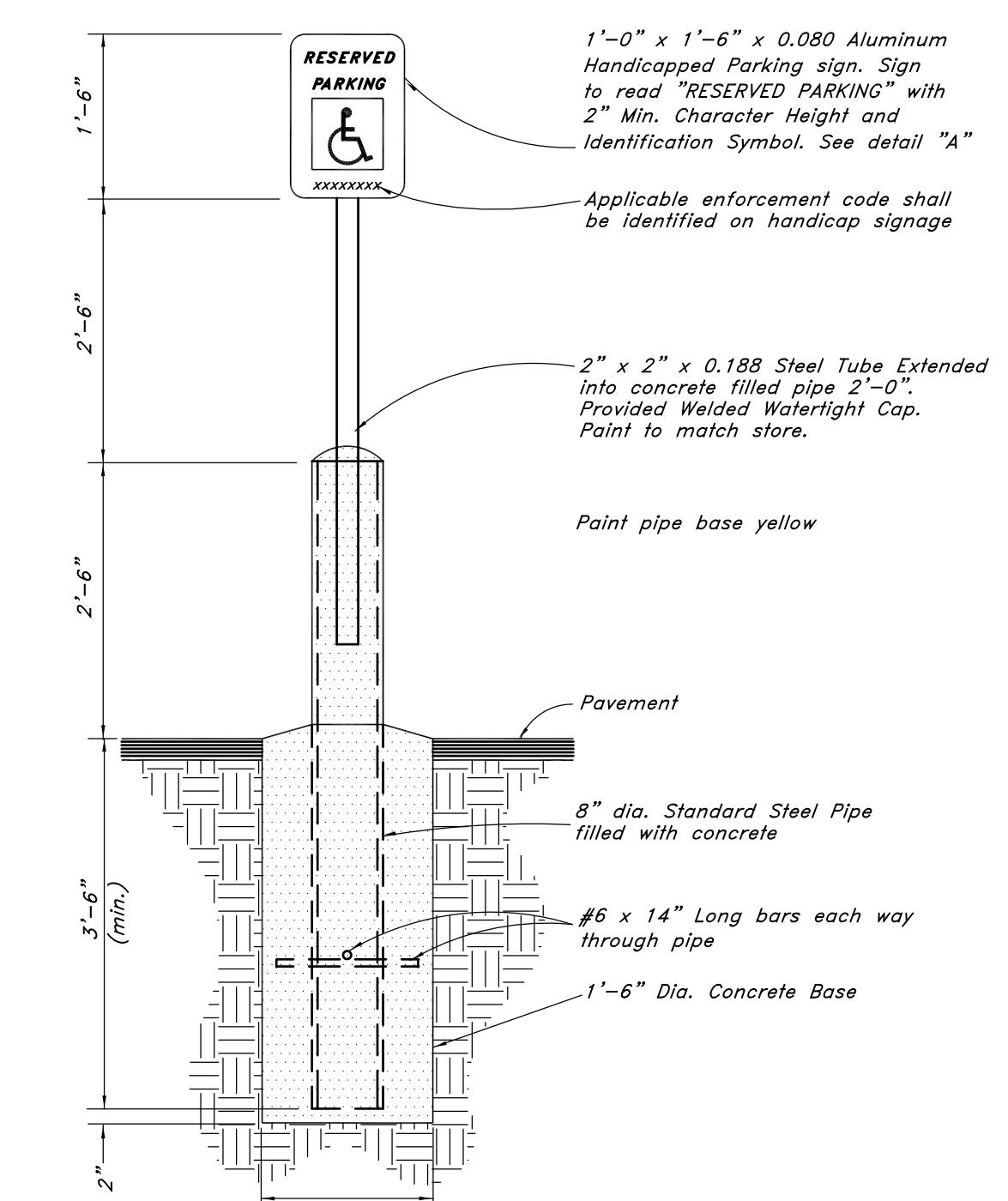
**11 Curb Inlet with Single Grate**

Not to Scale

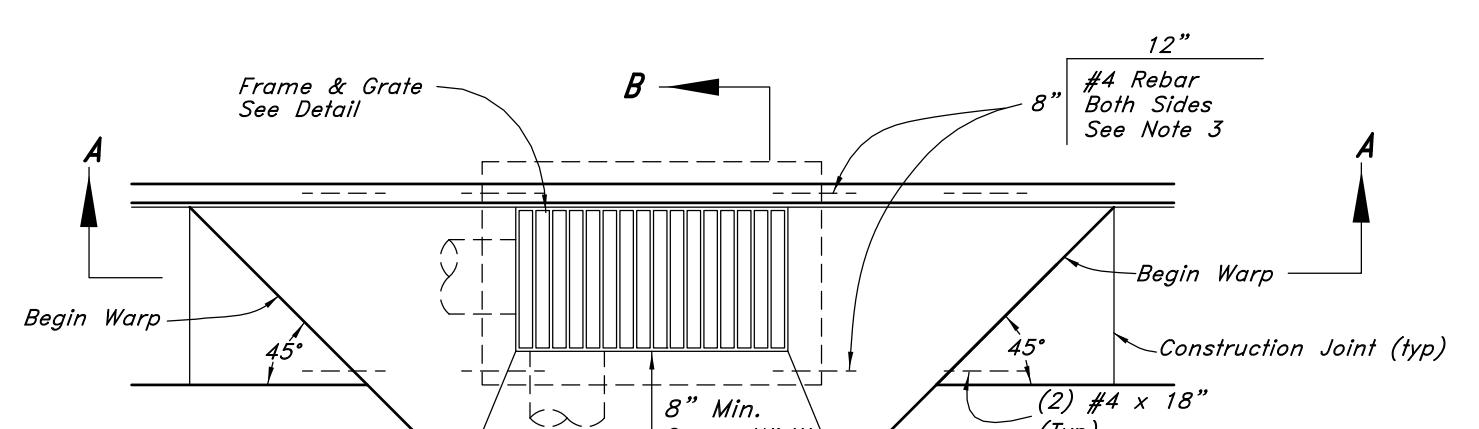
**ADA Van Stall Alternate Sign**



This sign shall be used for all ADA Stalls identified as "VAN" on Site Plan. 1'-0" x 1'-6" x 0.080 Aluminum Handicapped Van Stall Parking sign. Sign read "RESERVED PARKING" and "VAN ACCESSIBLE" with identification symbol. See detail A



**Detail A  
Sign Mounting**



**9 ADA Parking Sign**

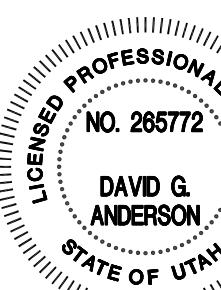
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## Cedar Hills Retail Center

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SHEET NO.

**C4.2**

Designed by: DA	X
Drafted by: LC	X
Client Name:	Amsource/AFFCU
DATE	XXXX
REV	REV

13-037DT



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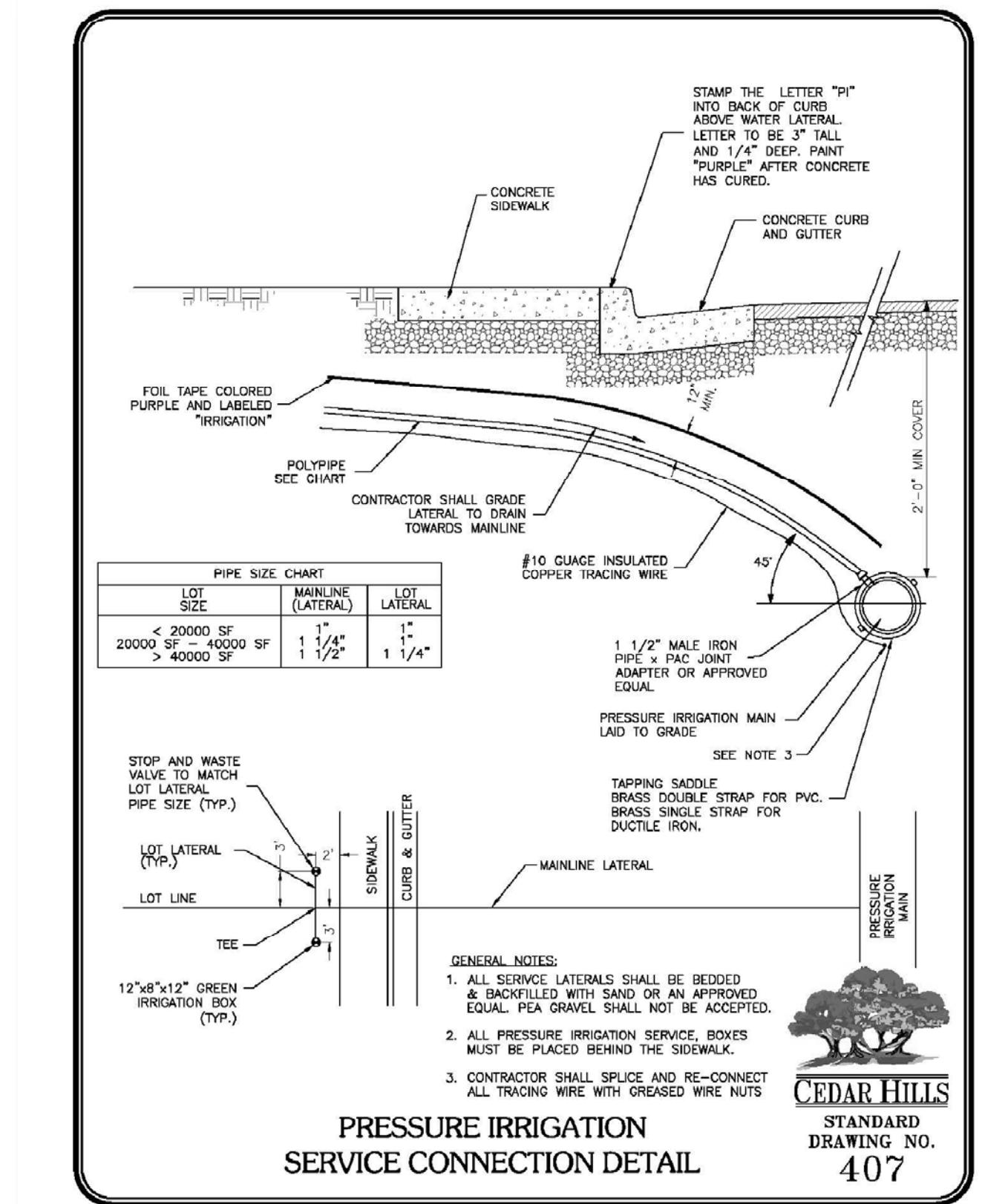
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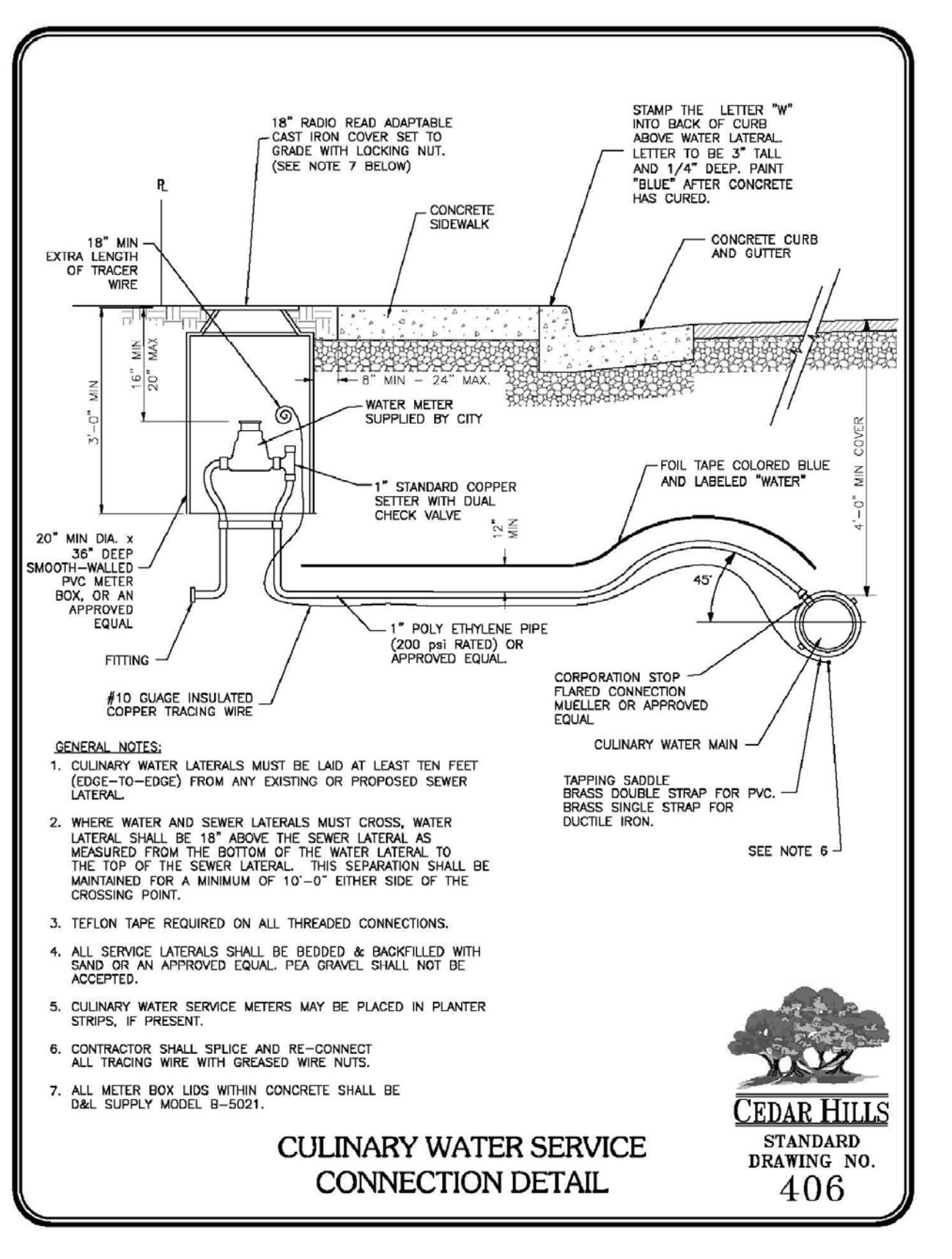
ANDERSON WAHLEN & ASSOCIATES



**Cedar Hills Std. Dwg. #407  
Pressure Irrigation Detail**

Not to Scale

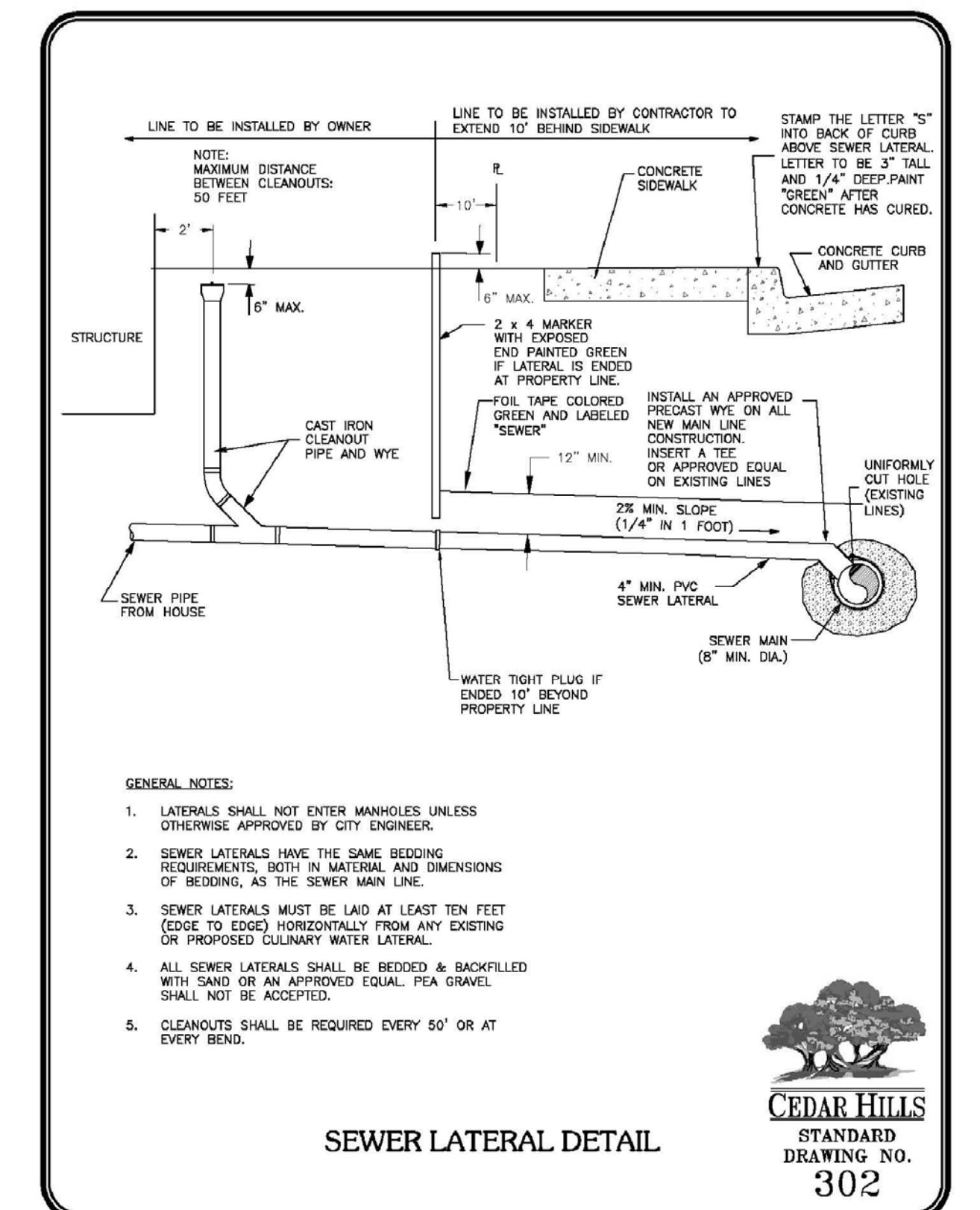
20



**Cedar Hills Std. Dwg. #406  
Culinary Water Service Connection Detail**

Not to Scale

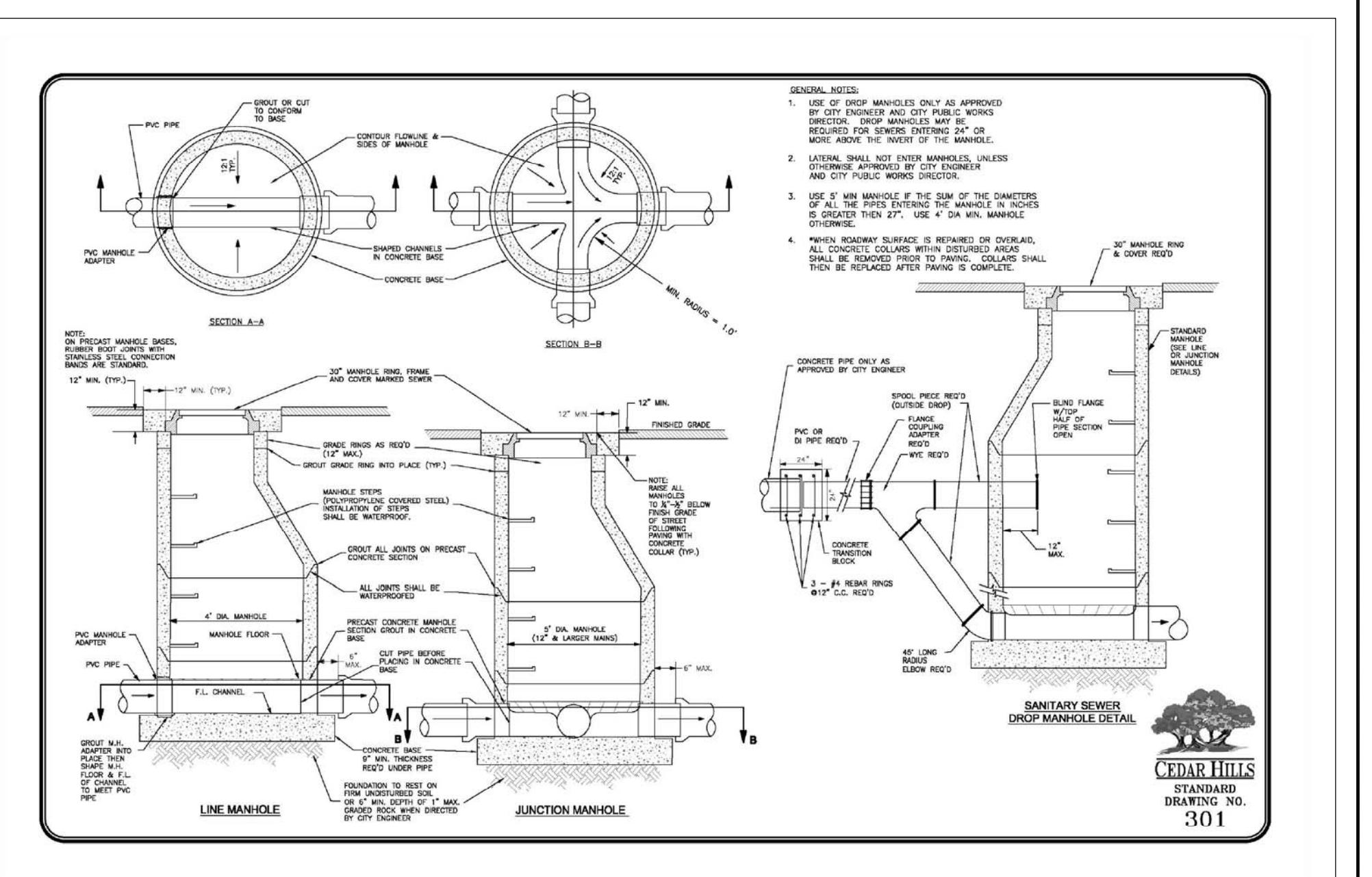
19



**Cedar Hills Std. Dwg. #302  
Sewer Lateral Detail**

Not to Scale

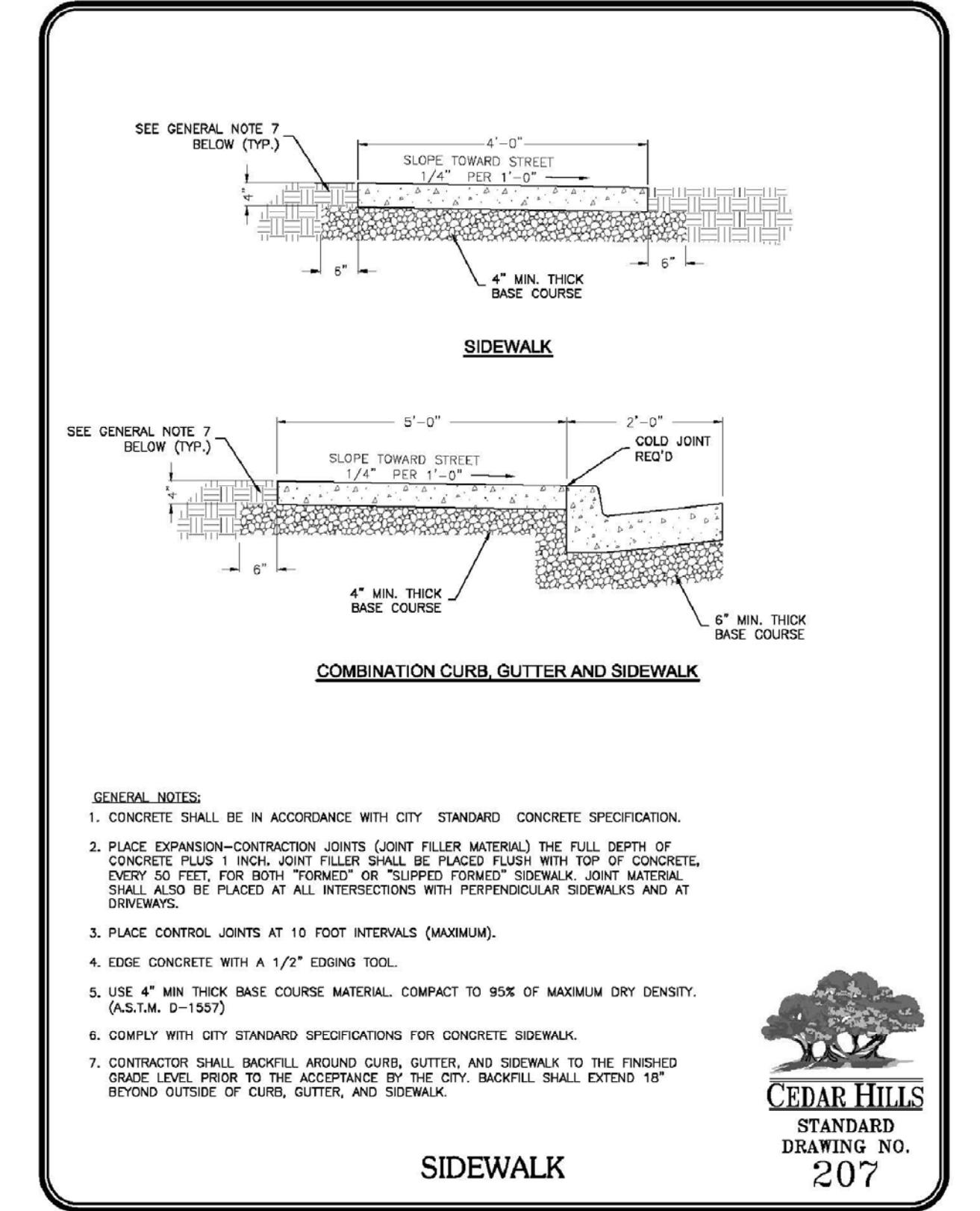
18



**Cedar Hills Std. Dwg. #301  
Manhole Detail**

Not to Scale

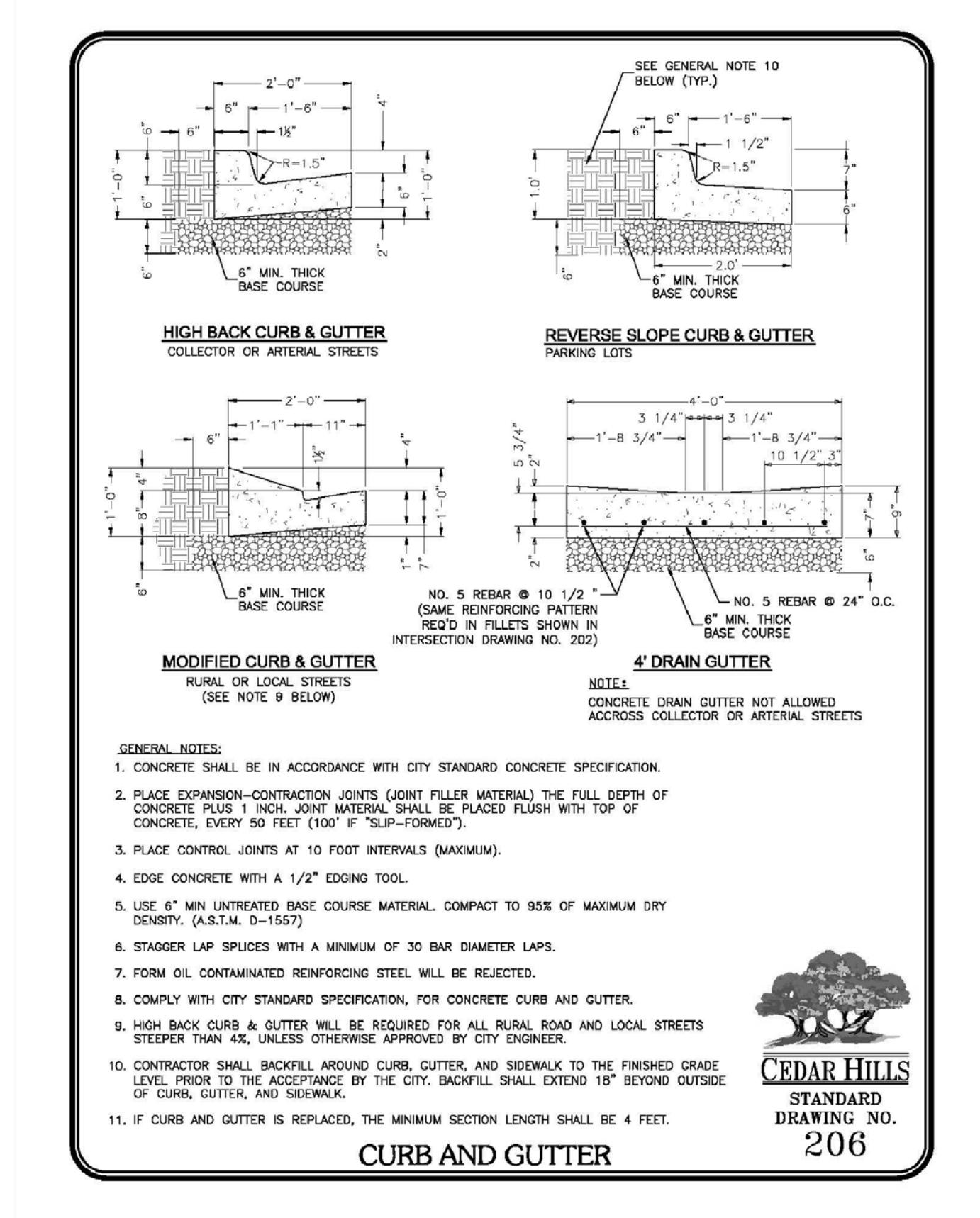
17



**Cedar Hills Std. Dwg. #207  
Sidewalk Detail**

Not to Scale

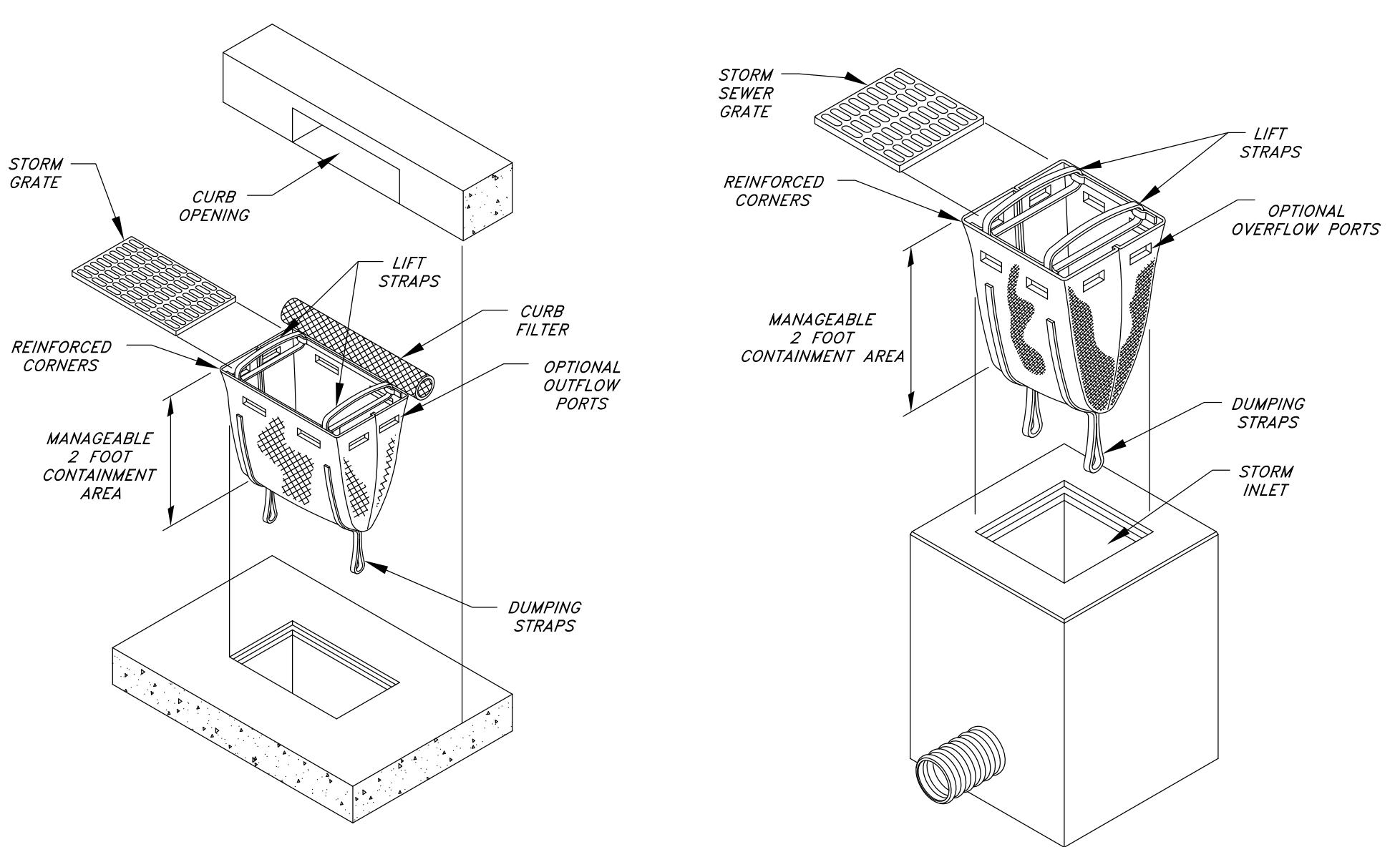
16



**Cedar Hills Std. Dwg. #206  
Curb & Gutter Detail**

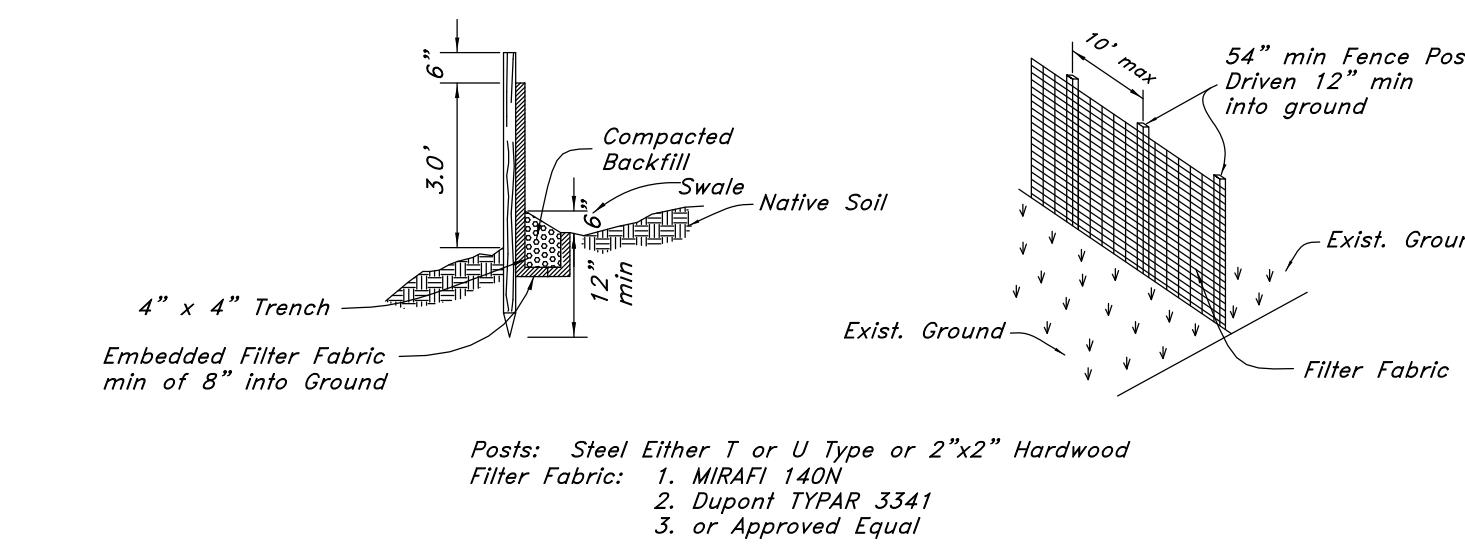
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15



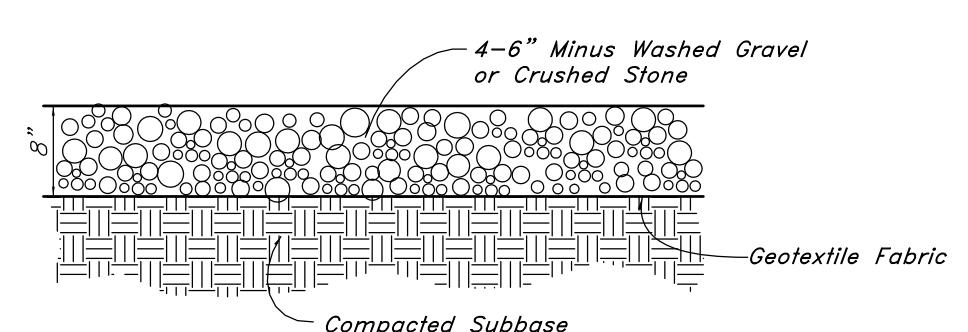
**Dandy Sack™ Detail**  
Net to Scale

*Not to Scale*



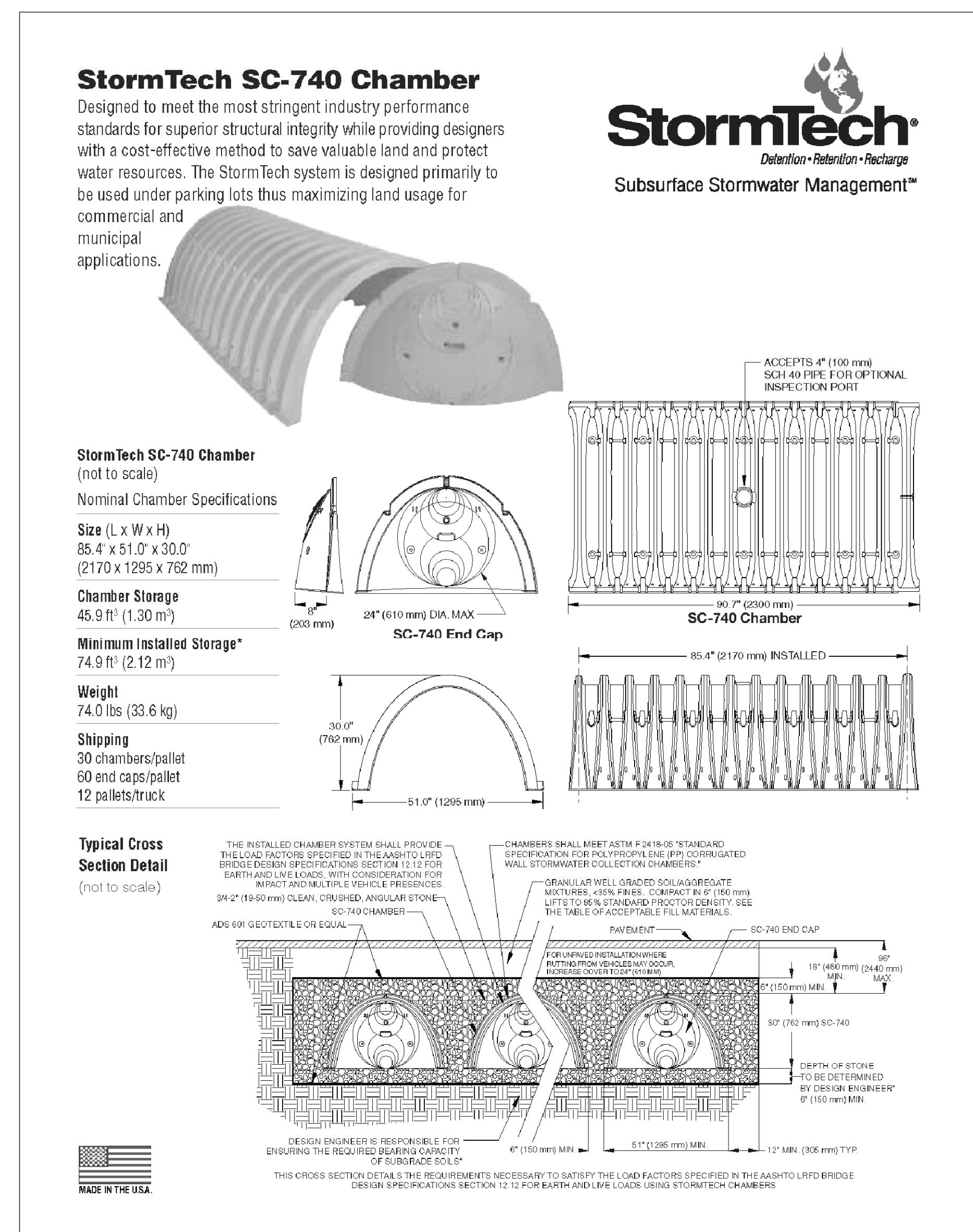
## ***Silt Fence Section***

*Not to Scale*



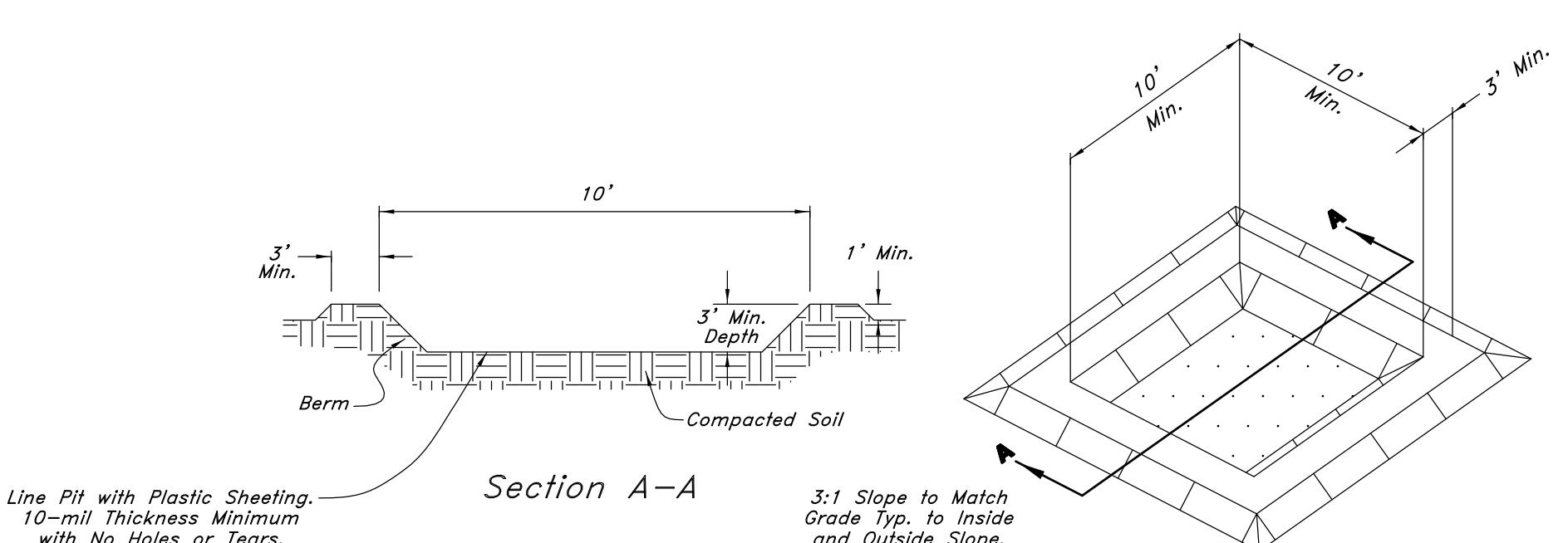
## ***Stabilized Construction Entrance***

Not to Scale



# ***Stormtech SC-740 Underground Storage Chambers***

*Not to Scale*



**Concrete Washout Detail**

*Not to Scale*

