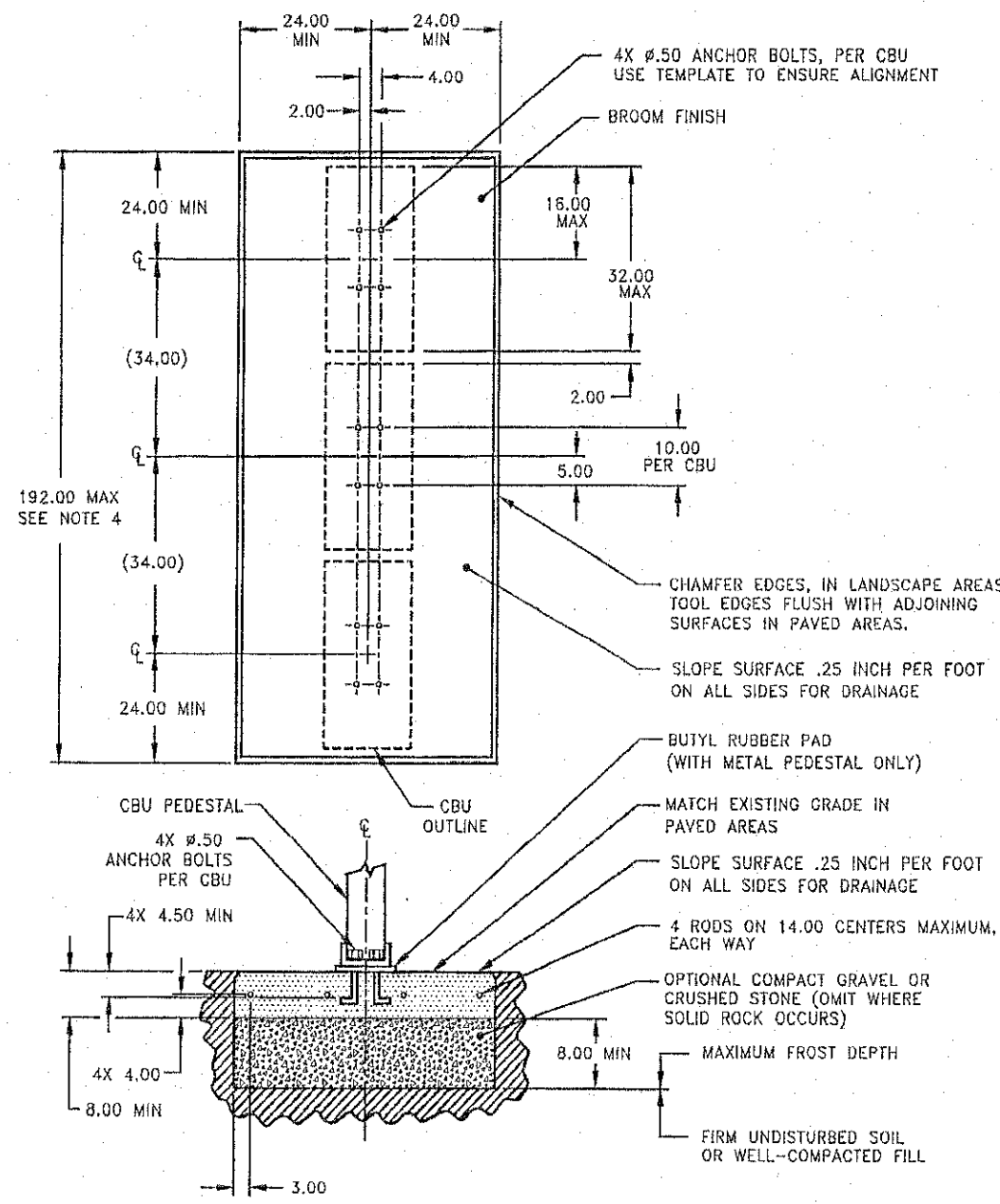


USPS APPROVED SPECIFICATIONS - CONCRETE PAD (MULTIPLE UNIT)



CLUSTER BOX UNIT (CBU)
-ANCHORING METHODS-

CBU's must be level and mounted firmly in concrete, using one of the following methods.

- The J-bolt method is the preferred method of installation of CBU's on concrete pads; however, the J-bolt pattern must be accurate with the CBU pedestal plate. When using J-bolts, in order to prevent any damage or accidents that could result from the exposed bolts, consideration should be given as to the time lapse between pouring the concrete and the actual installation. Expansion anchors must be installed in accordance with the manufacturer's instructions.
- The use of anchor bolts for the installation of CBU's on concrete pads is also acceptable as long as the methods described below are followed.
 - Hilti Kwik Bolt II, 1/2" diameter X 5-1/2" overall length
Catalog Number: 000-453-696, KB II 12-512
Stainless Steel Catalog Number: 000-454-744
Minimum embedment in concrete must be no less than 3-1/2"
 - ITW Ramset Redhead Trublot, galvanized, 1/2" diameter X 7" overall length
 - Rawl Stud, 1/2" diameter X 5 1/2" overall length, galvanized.
Catalog Number: 7324
Minimum embedment in concrete must be no less than 4"

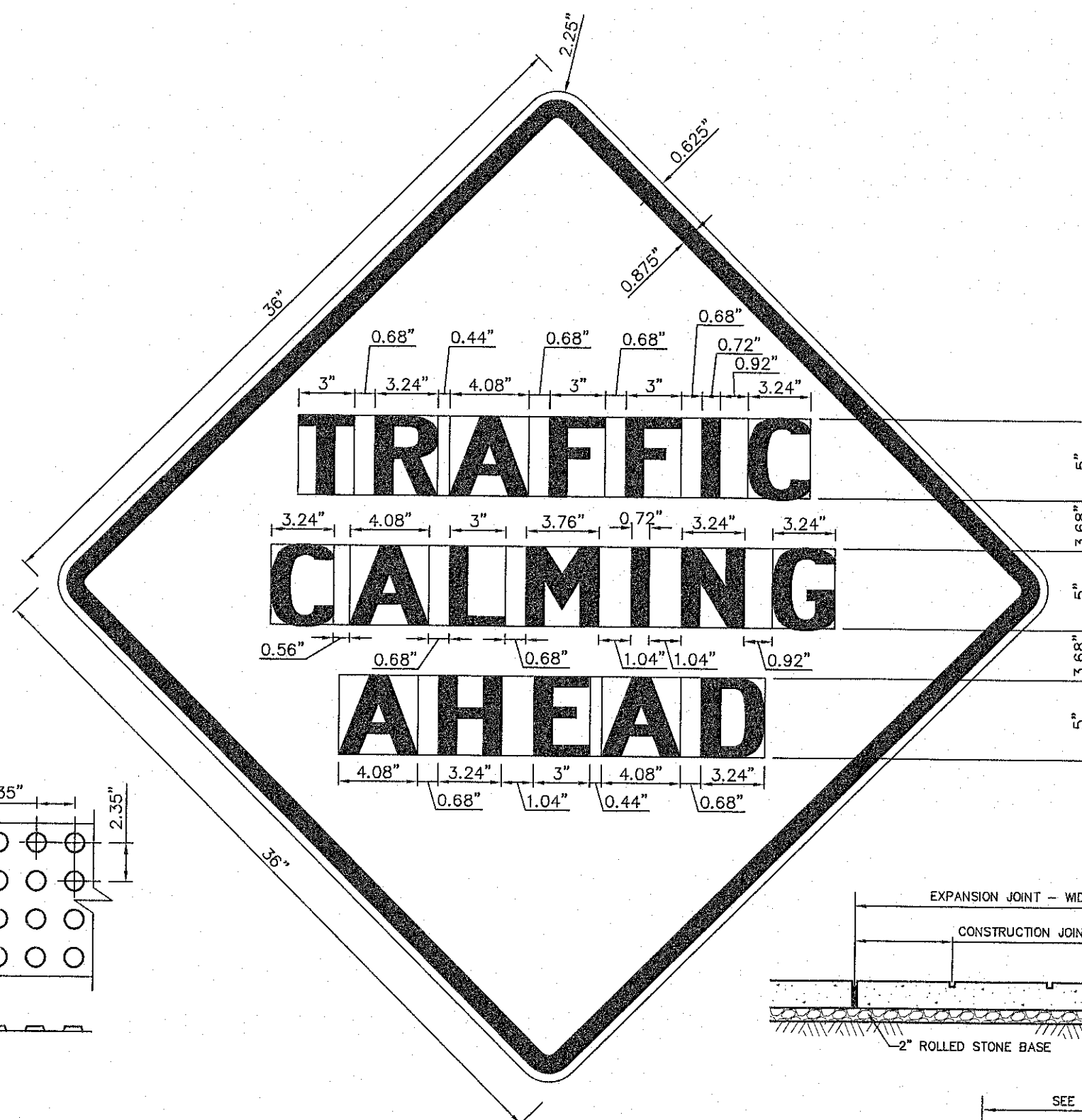
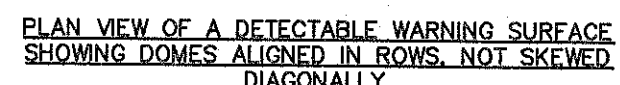
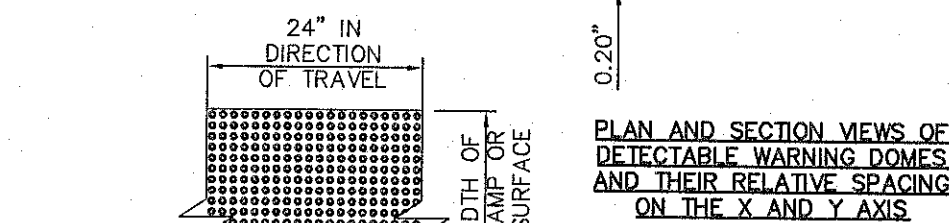
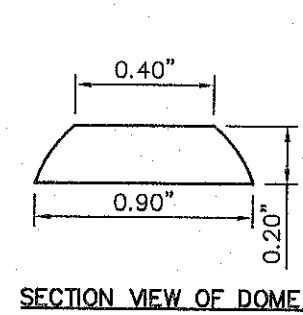
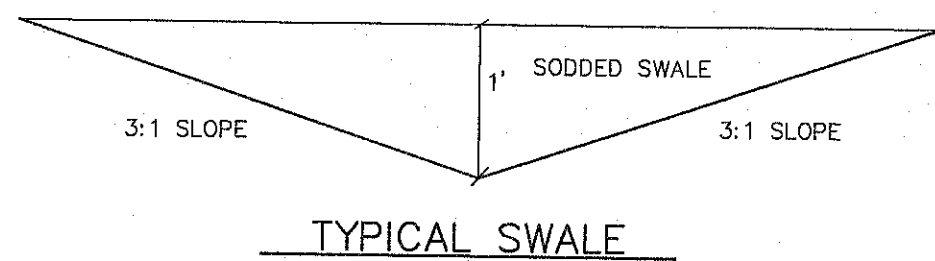
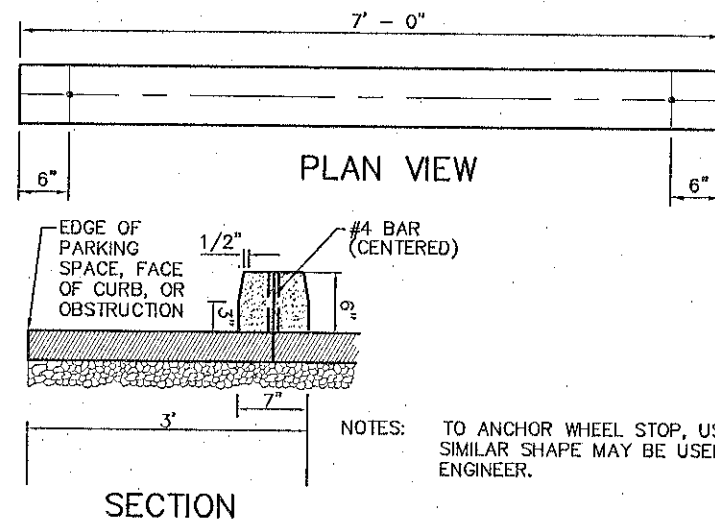
CLUSTER BOX UNIT (CBU)
-CONCRETE PAD REQUIREMENTS-

- ALL FREE STANDING PADS MUST BE 8" THICK -

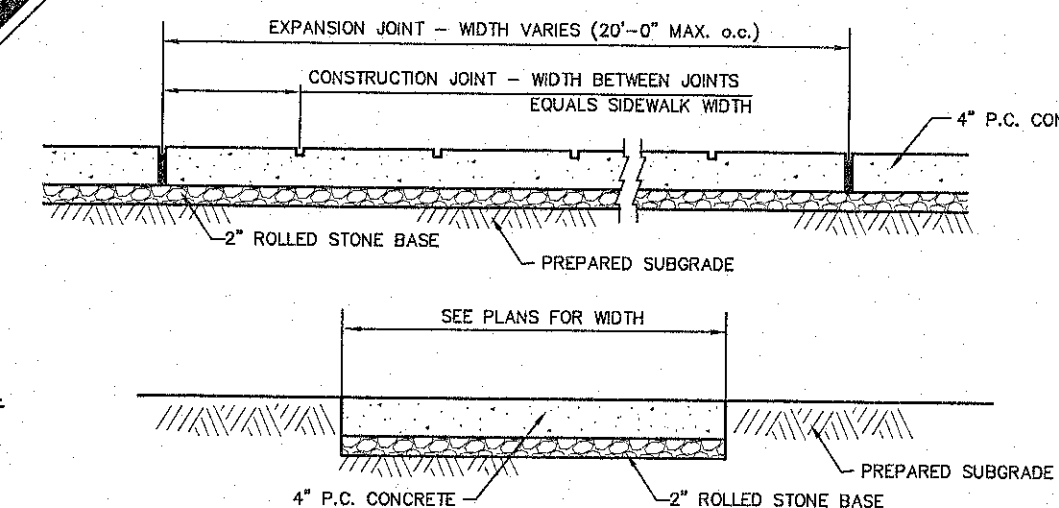
1 UNIT	SINGLE PAD	4' X 4'
2 UNITS	DOUBLE PAD	4' X 7'
3 UNITS	TRIPLE PAD	4' X 10'
4 UNITS	QUAD PAD	4' X 13'

*** WHEN PLACING A PARCEL LOCKER AT ANY CBU LOCATION, INCREASE THE PAD SIZE BY AN ADDITIONAL 4' X 4' ***

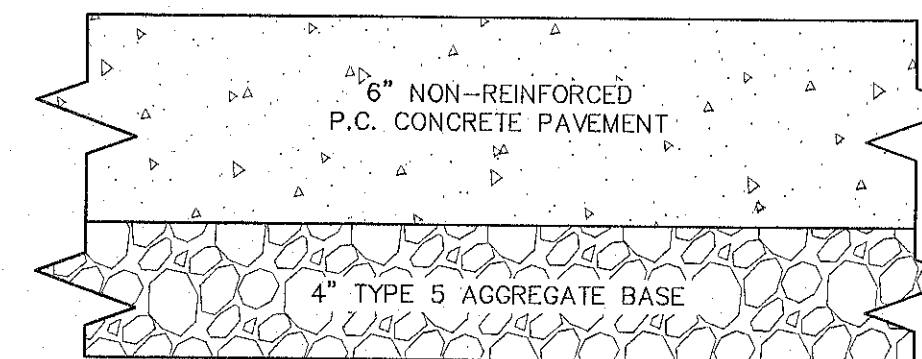
POSTAL SERVICE DETAILS
FOR MULTI-UNIT CBU PLACEMENT



SPECIAL SIGN DETAIL
NOT TO SCALE

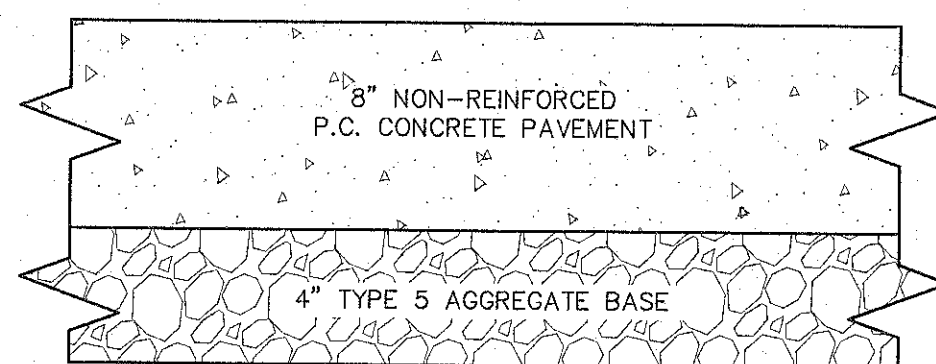


CONCRETE SIDEWALK DETAIL
NOT TO SCALE



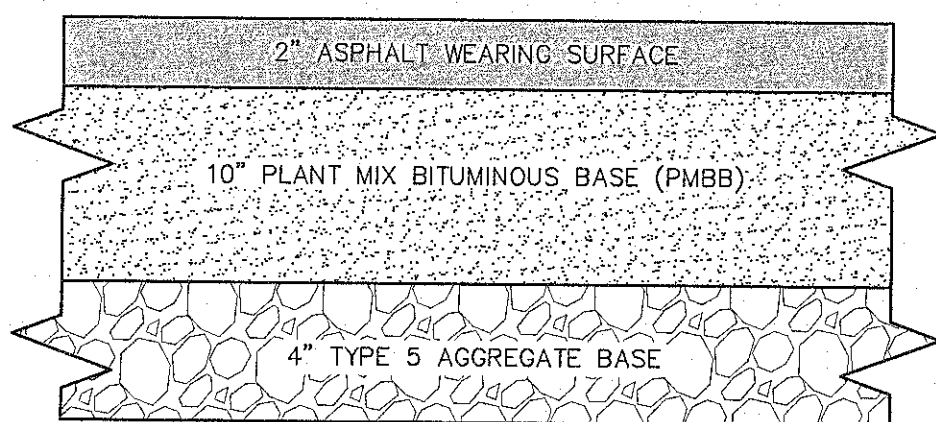
MAIL KIOSK PARKING AREA
CONCRETE PAVEMENT DETAIL
NOT TO SCALE

NOTE: ALL NON-REINFORCED CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.

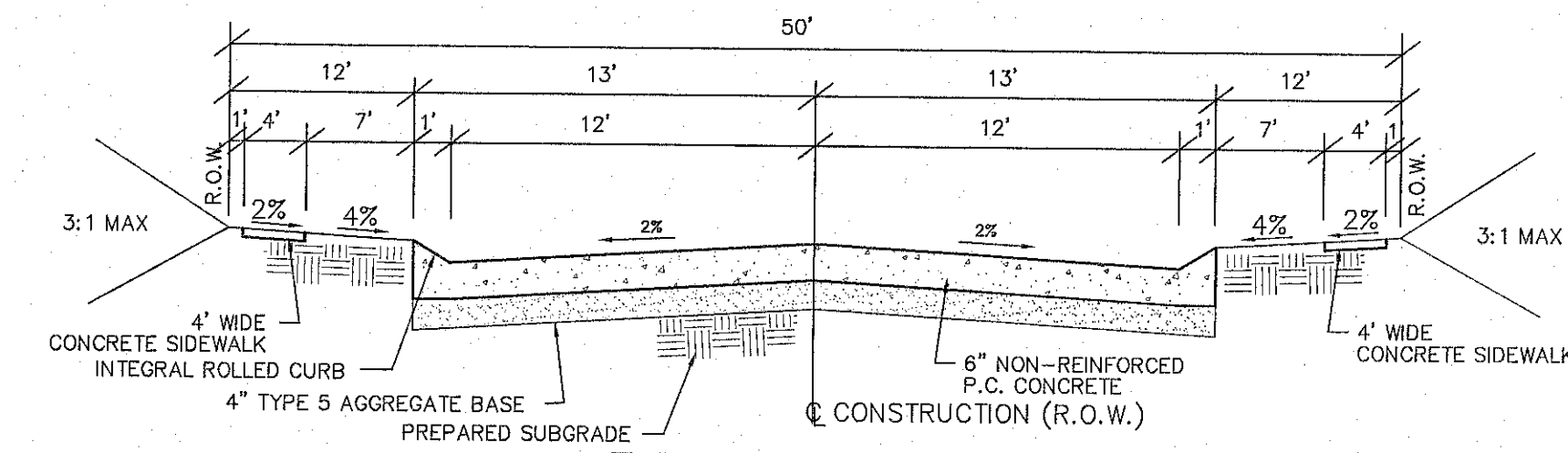


GUTHRIE ROAD
CONCRETE PAVEMENT DETAIL
NOT TO SCALE

NOTE: ALL NON-REINFORCED CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.

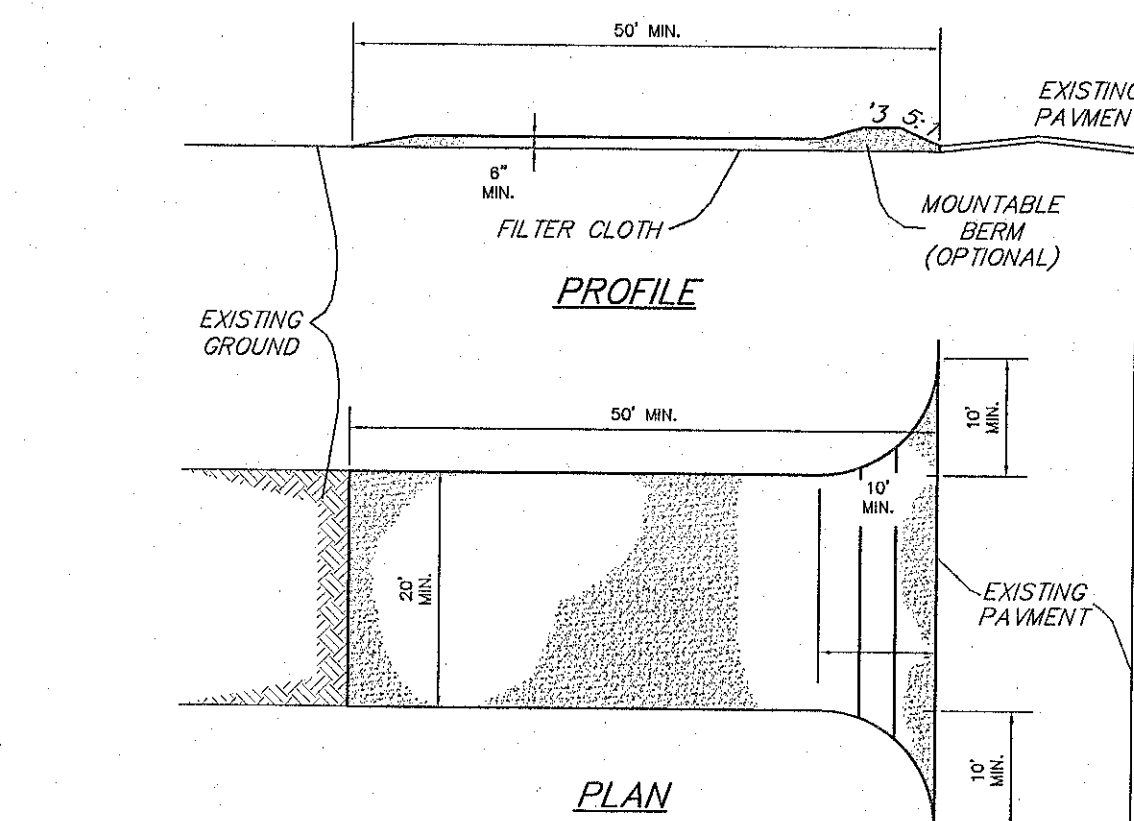


GUTHRIE ROAD
ASPHALT DETAIL
NOT TO SCALE



TYPICAL SECTION
NOT TO SCALE

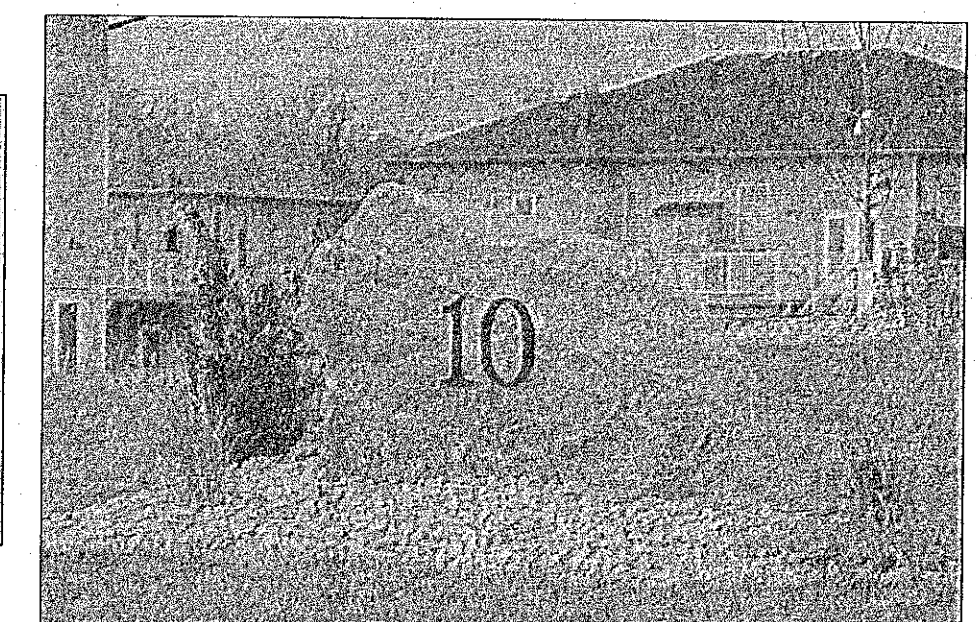
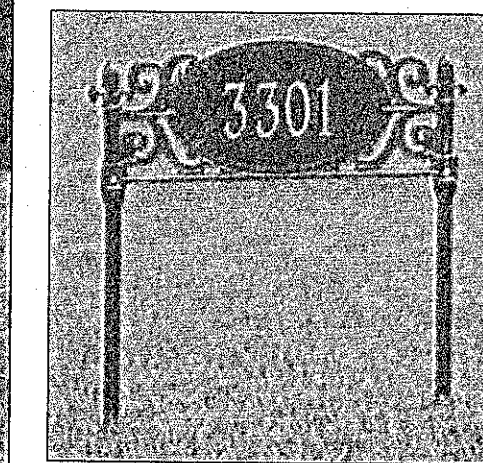
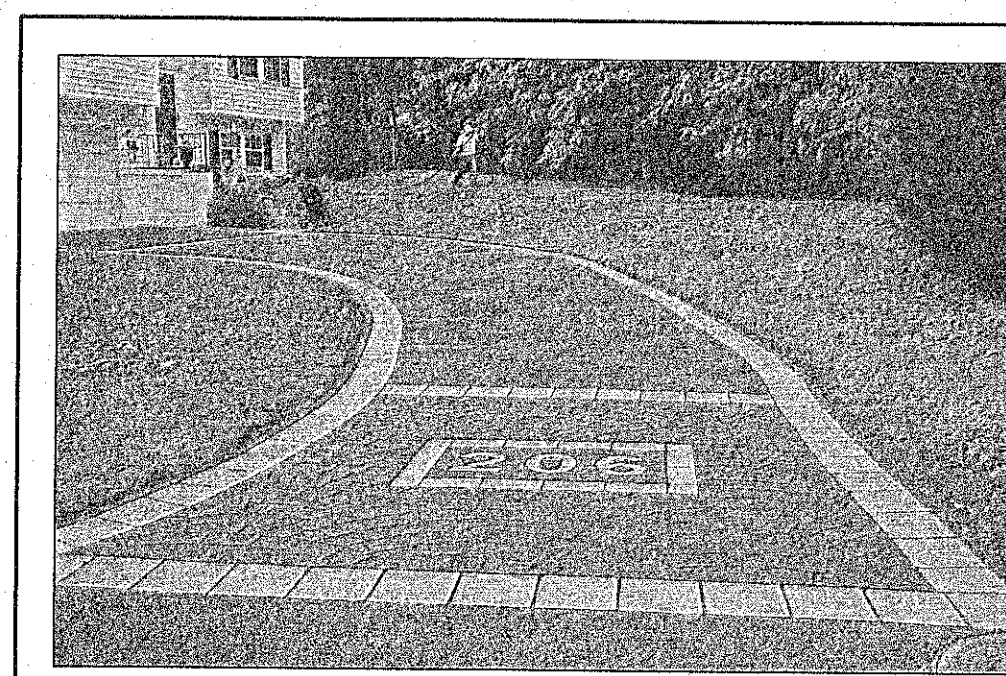
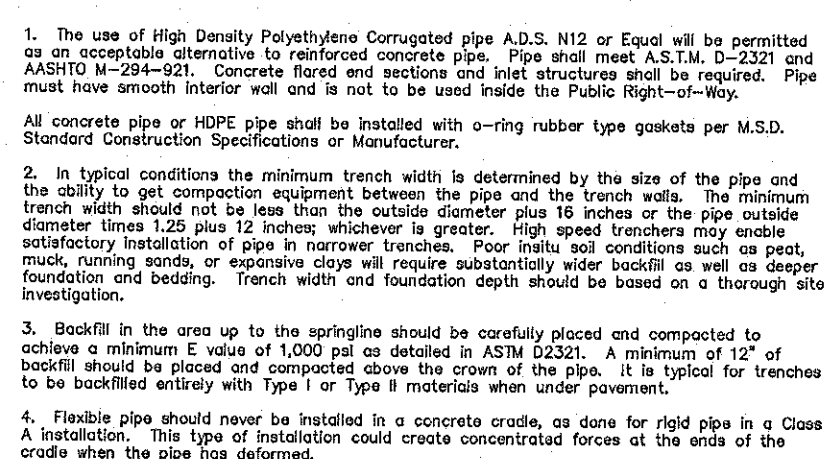
NOTE: ALL NON-REINFORCED CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.



- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment on public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

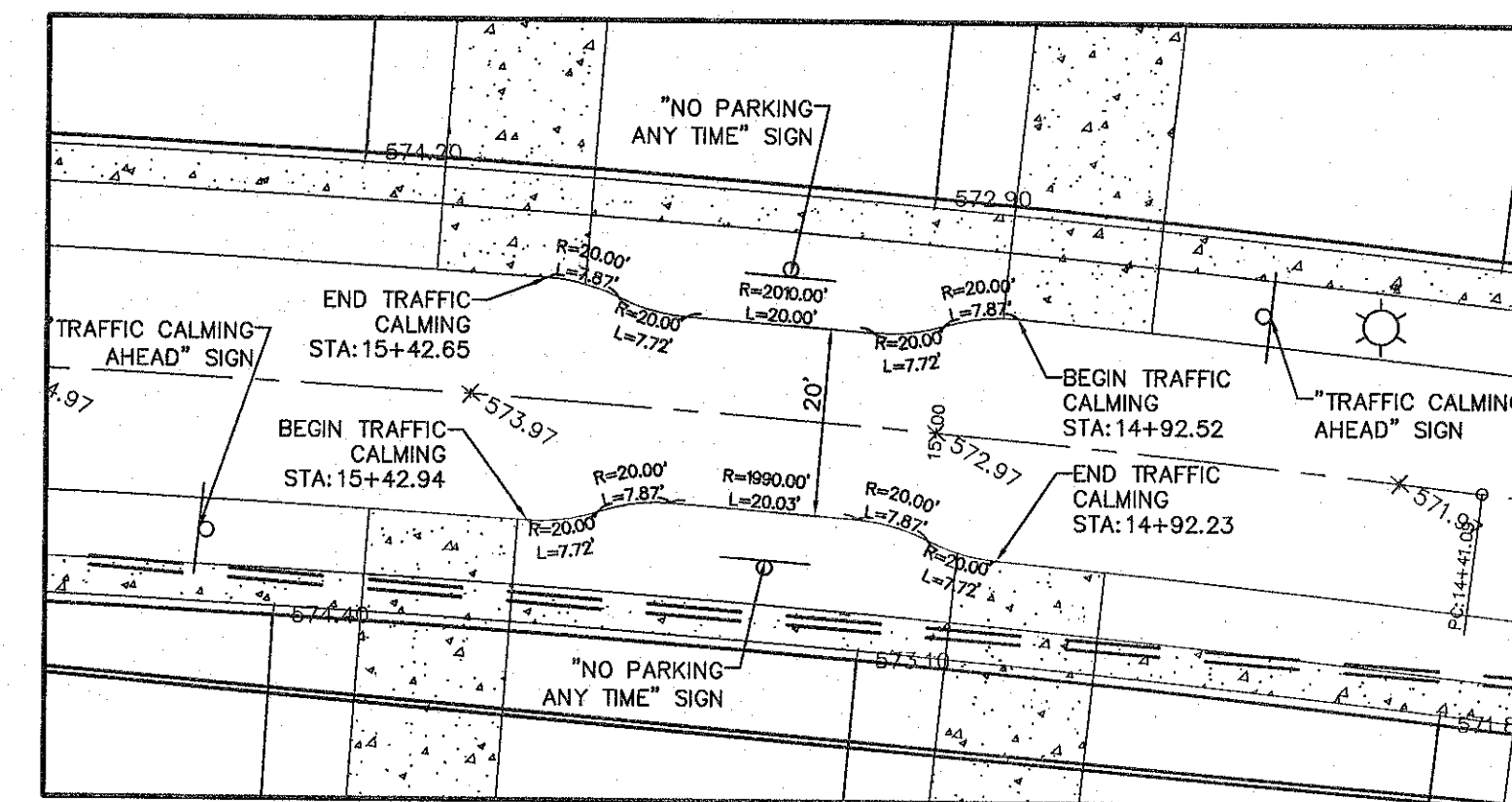
STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA
NOT TO SCALE

H.D.P.E. PIPE DETAIL



NOTE: IF LARGE BOULDERS ARE USED, THEY MUST BE PLACED OUTSIDE OF THE CITY'S RIGHT-OF-WAY.

EXAMPLES OF ADDRESS DISPLAY
OPTIONS FOR FLAG LOTS

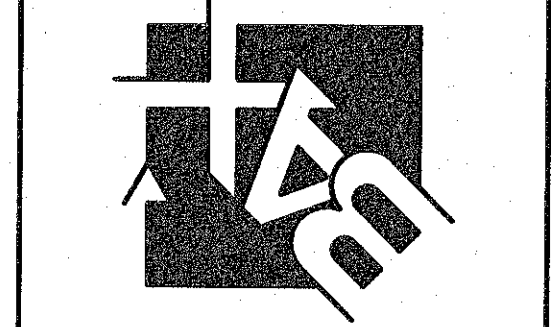


TRAFFIC CALMING DETAIL
SCALE: 1"=20'

NOTE: ALL SECTIONS OF THE TRAFFIC CALMING DEVICES SHALL BE CONSTRUCTED TO ENSURE POSITIVE STORM WATER DRAINAGE THROUGH THE TRAFFIC CALMING DEVICES. NO STORM WATER PONDING WILL BE ALLOWED.

PROJECT TITLE:
**KEYSTONE
RIDGE**

ENGINEERING
PLANNING
SURVEYING
221 Point West Blvd.
St. Charles, MO 63301
636-928-6562
FAX 636-928-1716



DISCLAIMER OF RESPONSIBILITY
I hereby certify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project.

CLIFFORD L. HEITMANN
NUMBER E-29817
CLIFFORD L. HEITMANN
CIVIL ENGINEER
E29817

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REVISIONS	CITY COMMENTS
05/01/17	CITY COMMENTS
07/20/17	CITY COMMENTS
08/07/17	CITY COMMENTS
08/21/17	CITY COMMENTS
08/31/17	CITY COMMENTS
10/02/17	CITY COMMENTS

Developer / Owner:
KEYSTONE RIDGE LAND, LLC
10328 LAKE BLUFF DRIVE
ST. LOUIS, MO 63123
314-892-3030 EXT. 121

P+Z No. #32-16
City No. #

Page No. 30 of 33

REFERENCE DETAILS

Issue Date: 02/20/2017