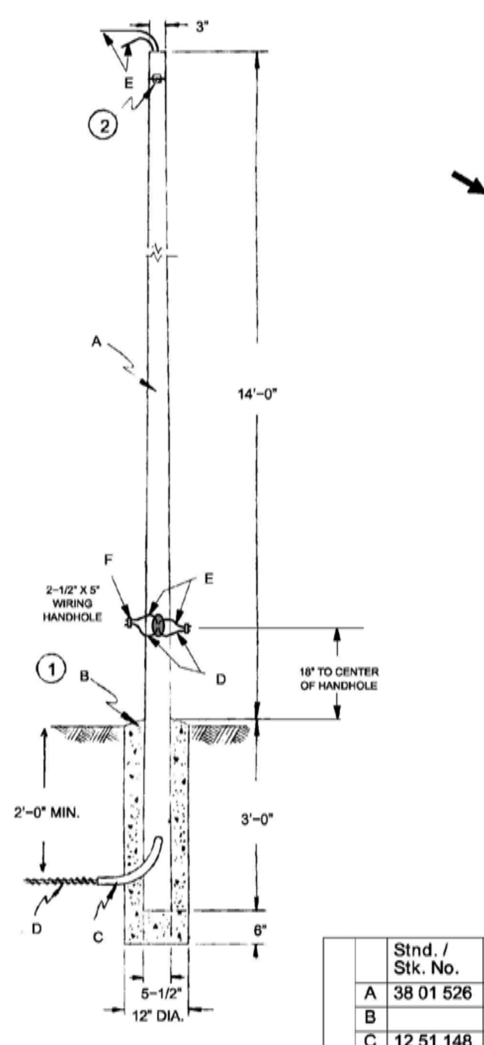
OUTDOOR LIGHTING
Post Top Installation Fiberglass Pole
14 Foot Mounting Height

15 75 05 01
Sheet 1 of 1



NOTES:

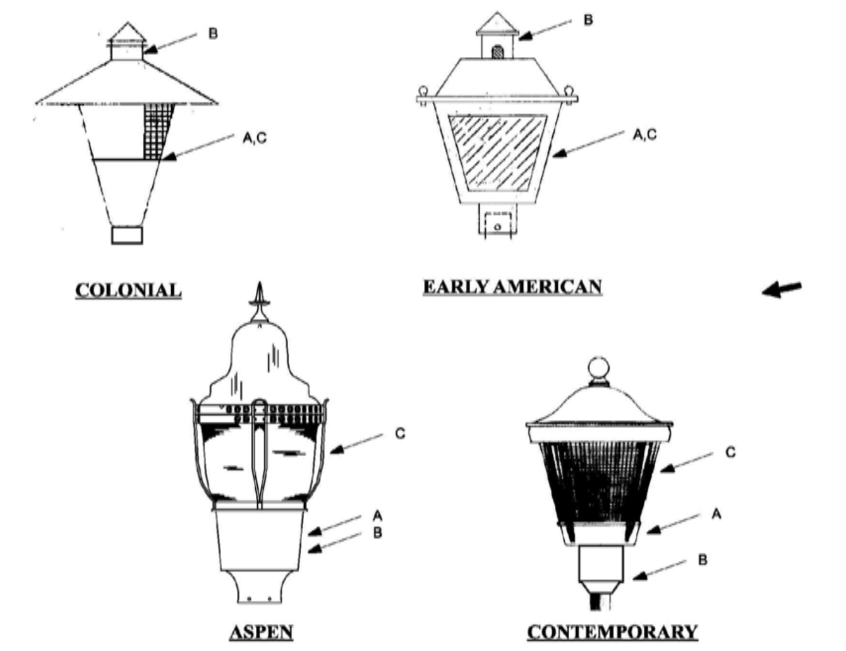
1. Limestone screenings to be wetted and thoroughly tamped to provide solid compaction around the pole.
2. Generally only one tag per street light shall be installed. If more than one street light installed on the same pole, one tag per street light is required, and each tag should be installed on the same quadrant of the light. The tag should be installed visibly from the ground level but not reachable from public. See Dist. Std. 15 90 01 01 for more details.
3. In Missouri residential developments, the contractor will install 1-1/2 inch conduit to the pole site. Ameren will install the pole and the cable.
4. For fuse underground streetlight cable at pad mount transformer or pedestal, See Dist. Std. 52 00 01 **.

		Stnd. / Stk. No.	Description 15 75 05 01	Qty.
	A	38 01 526	Pole – FG, Black, w/hand hole	1
	B		Rock, Crushed Limestone Screening	200
	C	12 51 148	Conduit Poly 1"	2
@	D	18 07 252	Cable – Duplex #6 Al.	
	E	18 57 104	Cable, St. Lt., #10-2 conductor-Ft.	17
	F	17 01 116	Connector, Bolt/Set Screw, #4-2/0,3Pos.	2

DISTRIBUTION CONSTRUCTION STANDARDS — Ameren — ENG:WYW REV. NO: 8 REV. DATE: 01/21/10 — Page 15 – 31

OUTDOOR LIGHTING
Luminaire Components – Post Top Installation

15 70 14 **
Sheet 1 of 1



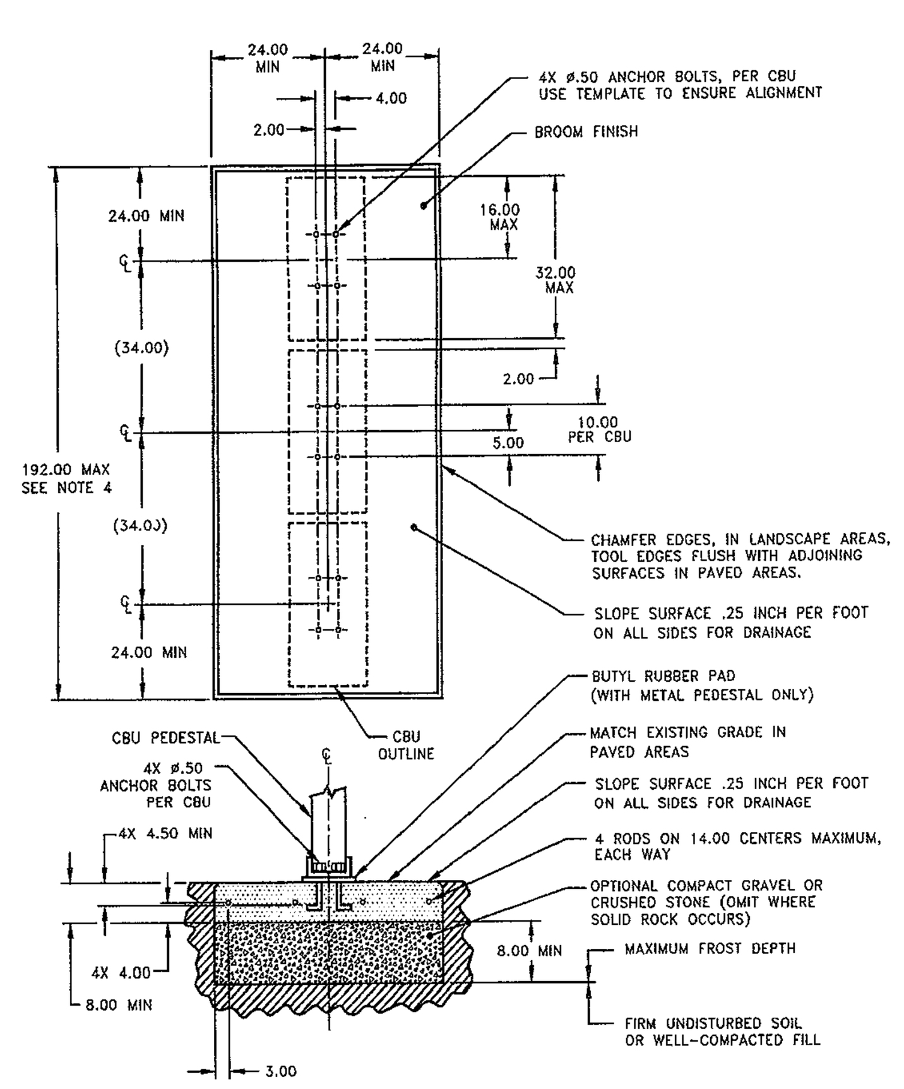
1. Position luminaire to facilitate service from the street.
2. On Type III, align refractor with street side.
3. Face eye of photo-electric cell north.

	Stnd. / Stk. No.	Description	15 70 14 **	01	02	03	04	05	06	07	08	09	10
A	38 01 524	Colonial, 100w, HPS, Type III	MO	1									
	38 01 525	Colonial, 100w, HPS, Type V	MO		1								
	38 01 517	Early American, 100w, HPS, Type III	ALL			1							
	38 01 518	Early American, 100w, HPS, Type V	MO				1						
	38 01 942	Early American, 175w, MH, Type III	IL									1	
	38 01 513	Contemporary, 100w, HPS, Type III	MO					1					
	38 01 514	Contemporary, 100w, HPS, Type V	MO						1				
	38 01 584	Aspen, 100w, HPS, Type III	MO							1			
	38 01 585	Aspen, 100w, HPS, Type V	MO								1		
B	38 51 366	Switch, Photo electric Cell		1	1	1	1	1	1	1	1	1	1
C	26 55 260	Lamp, 100w, HPS		1	1	1	1	1	1	1	1		
	26 56 260	Lamp, 175w, MH										1	1

DISTRIBUTION CONSTRUCTION STANDARDS — Ameren — ENG:WYW REV. NO: 1 REV. DATE: 02/13/07 — Page 15 – 9

TYPICAL STREET LIGHTING
NOT TO SCALE

USPS APPROVED SPECIFICATIONS – CONCRETE PAD (MULTIPLE UNIT)



NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN ~ 6% MAX AIR ENTRAINMENT AND BE PLACED WITH A 3.50 – 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE B8M, TYPE 316 STAINLESS STEEL.
4. A 3 CBU CONFIGURATION IS DEPICTED. A 2 OR 4 CBU CONFIGURATION MAY BE USED AS LONG AS THEY ARE ARRANGED IN GROUPS SUCH THAT THE OVERALL DIMENSION OF THE CONCRETE BASE DOES NOT EXCEED 192 INCHES.

CLUSTER BOX UNIT (CBU)
-ANCHORING METHODS-

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

1. 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.
2. 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.
   a. 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"
   b. ITW Ramset Redhead Trublot, galvanized, 1/2" diameter X 7" overall length
   c. 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"

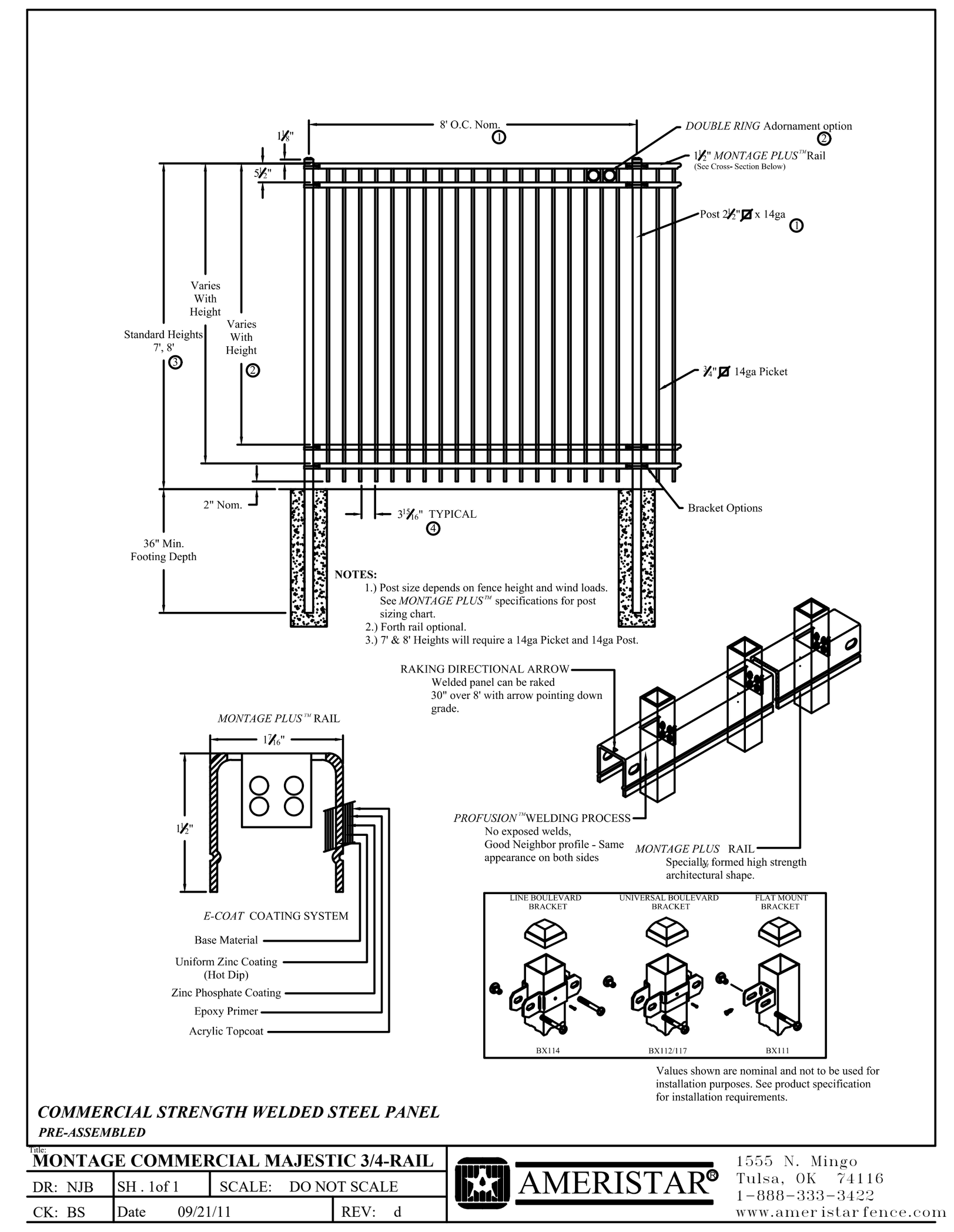
CLUSTER BOX UNIT (CBU)
-CONCRETE PAD REQUIREMENTS-

- 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
NOT TO SCALE



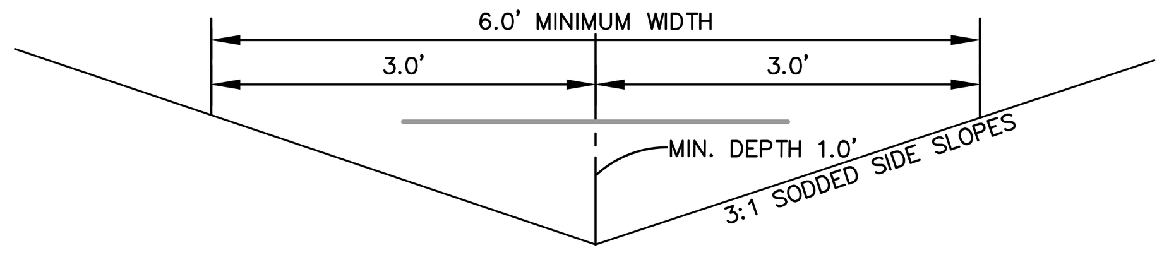
FENCE DETAIL FOR RETAINING WALL
NOT TO SCALE

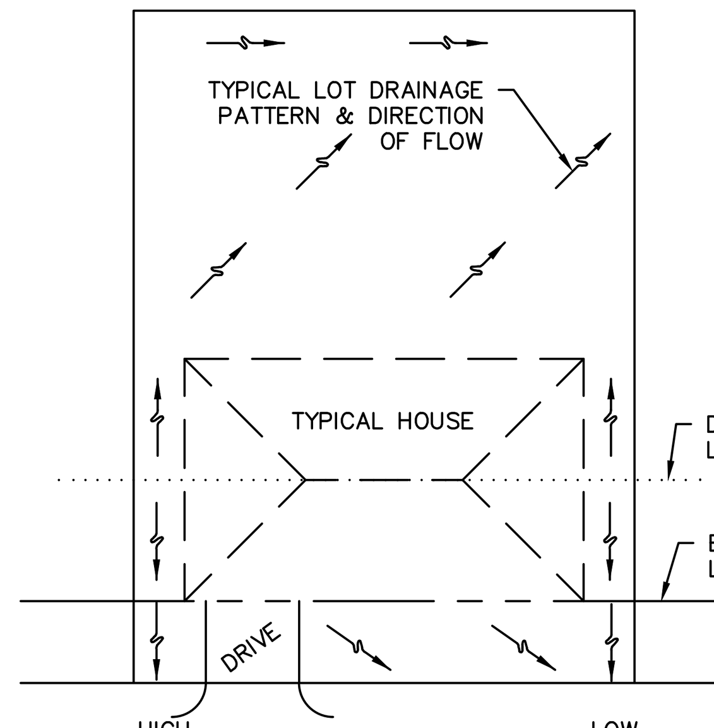
ISSUE	REMARKS/DATE
1	INITIAL SUBMITTAL
2	9-23-20 Rev Ducket Creek Cmmnt.
3	20201001 Rev per City/Duckett/PWSD#2
4	20201014 Rev per Duckett
5	20201020 Rev per City Comments
6	20201102 Rev per DCSD Comments
7	20201106 Rev per City Comments

TYPICAL YARD SWALE

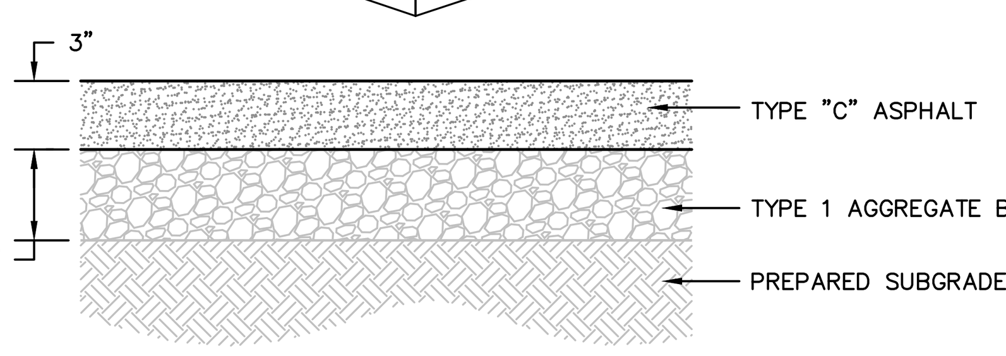
Maximum Discharge (Q) = 3.00 cfs
Maximum Velocity (V) = 3.00 ft/sec
N = 0.030 (grass)
Maximum side slopes = 3 (horizontal) :1 (vertical)

Longitudinal Slope (%)	Discharge (cfs)	Velocity (ft/sec)	Depth (ft)
0.5	3.00	1.73	0.76
1.0	3.00	2.23	0.67
2.0	3.00	2.87	0.59
3.0	1.99	3.00	0.47
4.0	1.30	3.00	0.38
5.0	0.92	3.00	0.32
6.0	0.70	3.00	0.28
7.0	0.52	3.00	0.24
8.0	0.43	3.00	0.22
9.0	0.36	3.00	0.20
10.0	0.32	3.00	0.19

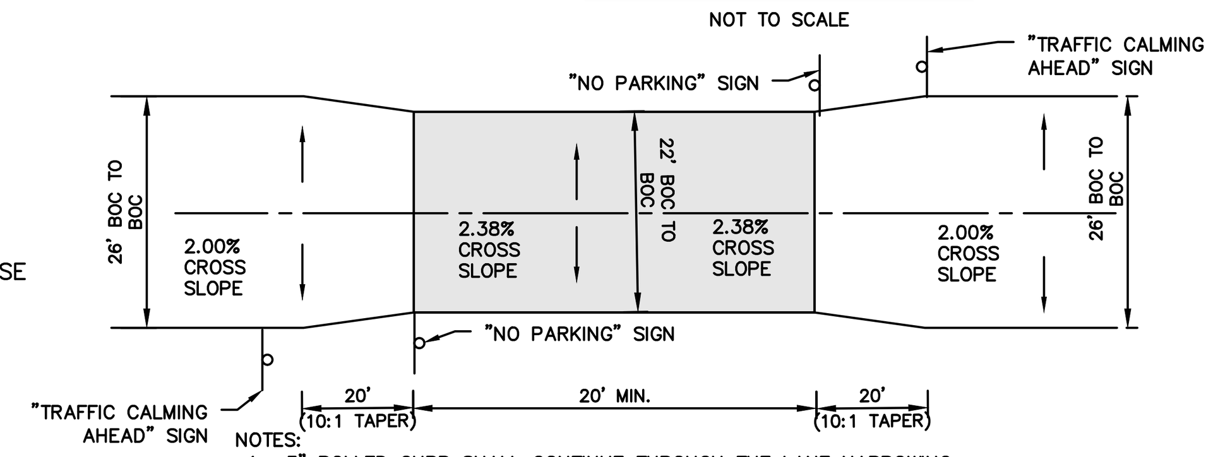




TYPICAL LOT DRAINAGE
NOT TO SCALE



ASPHALT TRAIL PAVEMENT DETAIL
N.T.S.

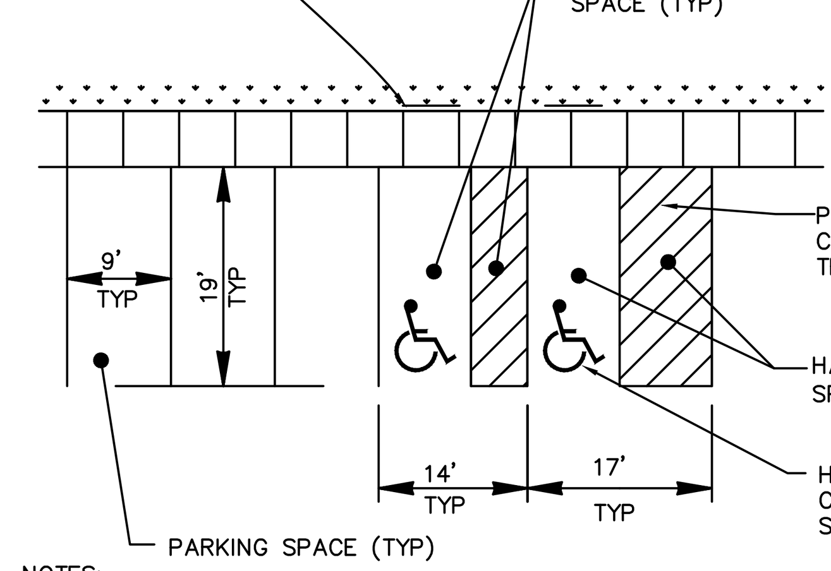


NOTES:
1. 3" ROLLED CURB SHALL CONTINUE THROUGH THE LANE NARROWING.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGH THE LANE NARROWING
3. SIGN LOCATIONS MAY VARY TO AVOID CONFLICTS WITH DRIVEWAYS AND UTILITIES

LANE NARROWING TRAFFIC CALMING DETAIL
N.T.S.

HANDICAP ACCESSIBLE PARKING SIGN IN ACCORDANCE WITH ADA REQUIREMENTS (TYP)

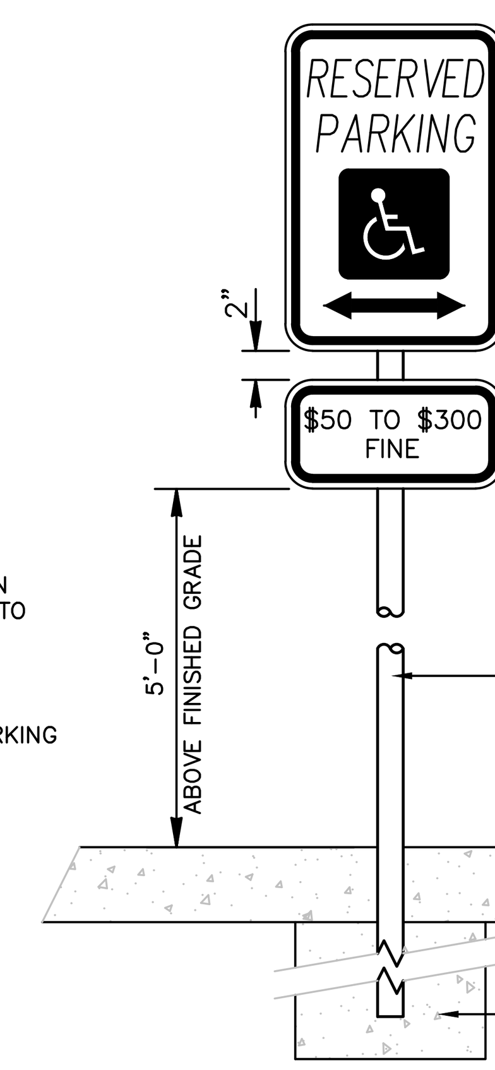
NOTE: MAY NOT BE SPECIFICALLY SHOWN ON PLAN BUT SHALL BE INSTALLED FOR EACH SPACE



NOTES:

ALL PARKING STRIPING SHALL BE 4" PAINTED YELLOW LINES (TYP)
ALL ACCESSIBLE PARKING STRIPING SHALL BE 4" PAINTED BLUE LINES

TYPICAL PARKING STRIPING
N.T.S.

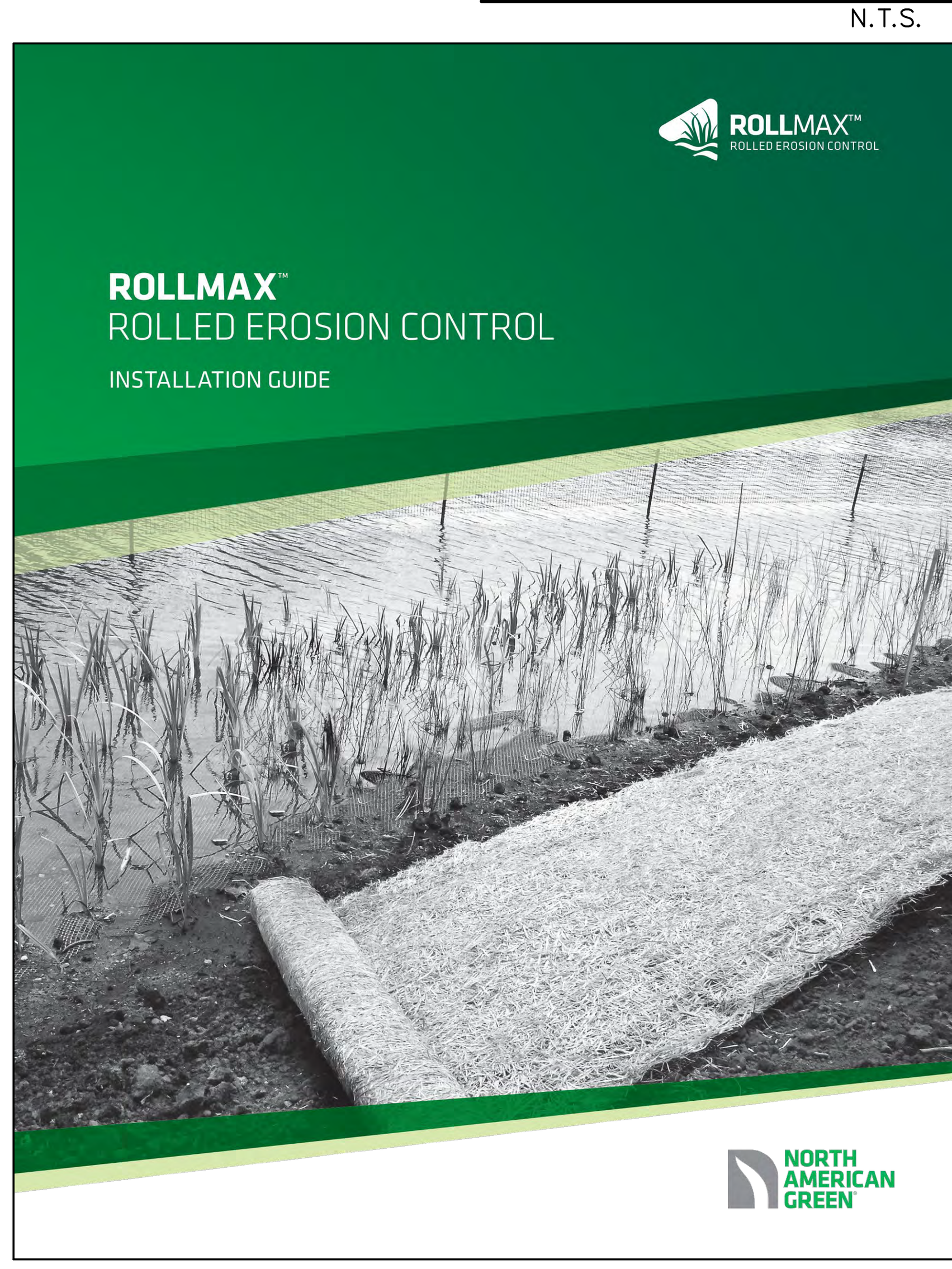


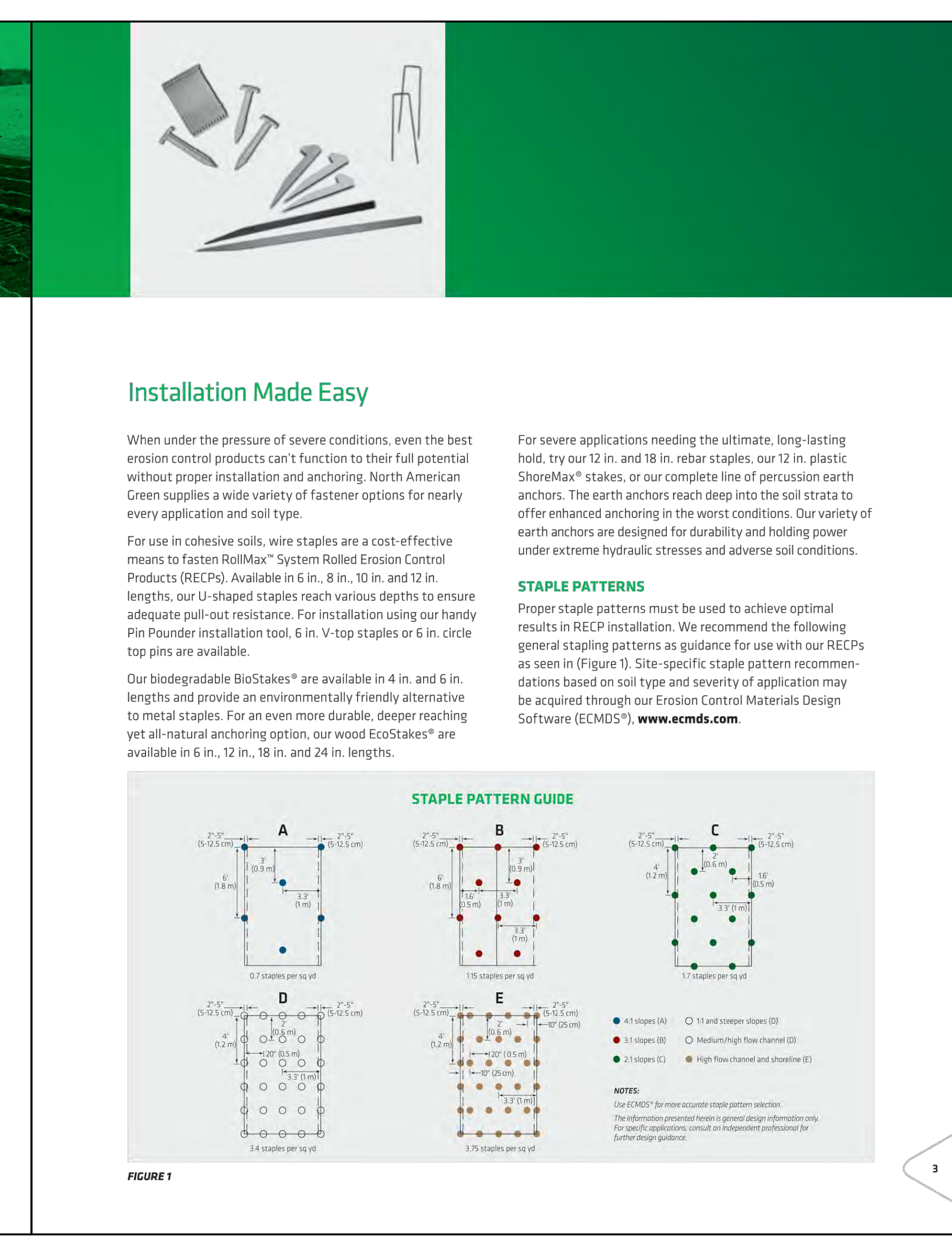
NOTES:

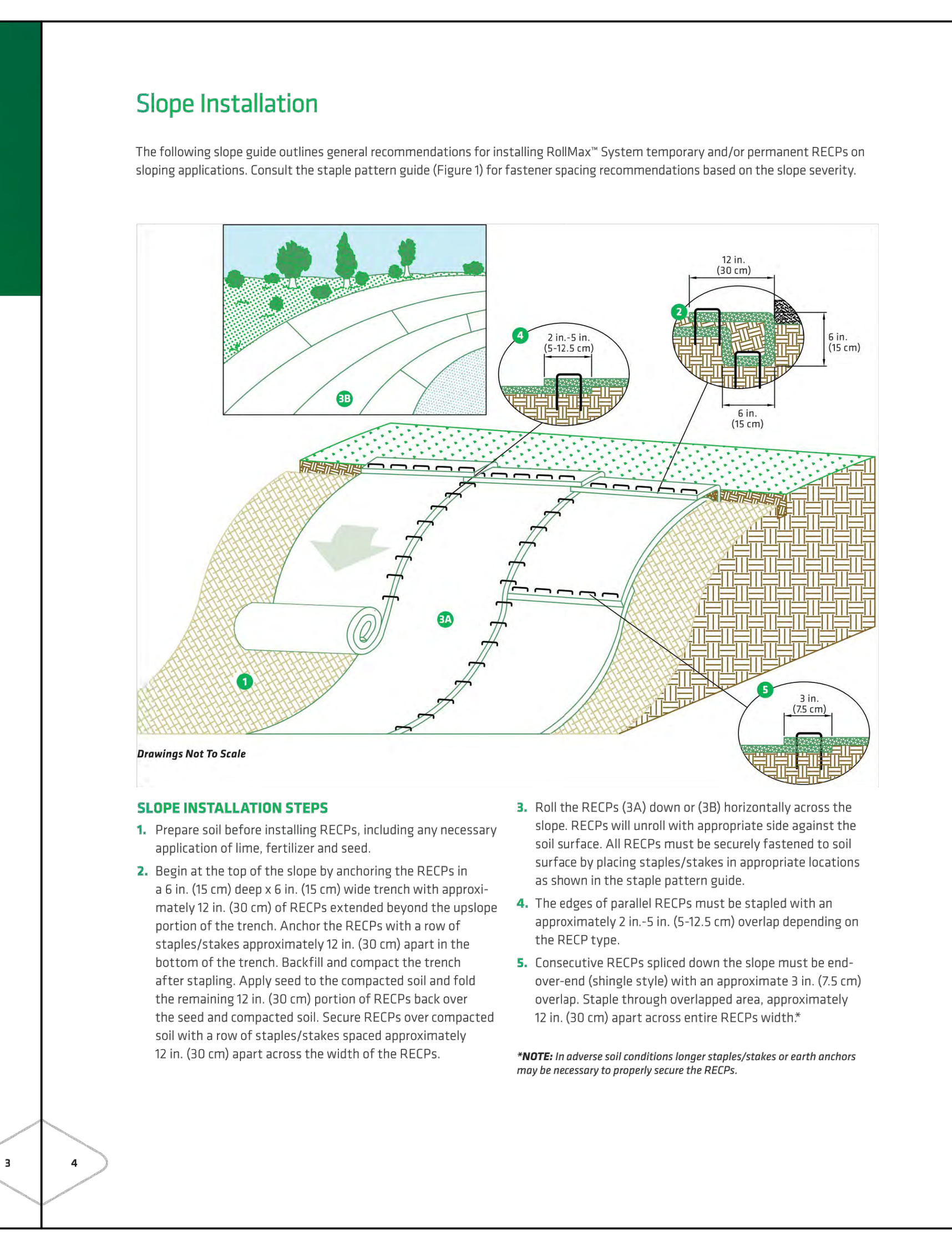
HANDICAPPED SIGNS TO CONFORM WITH U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

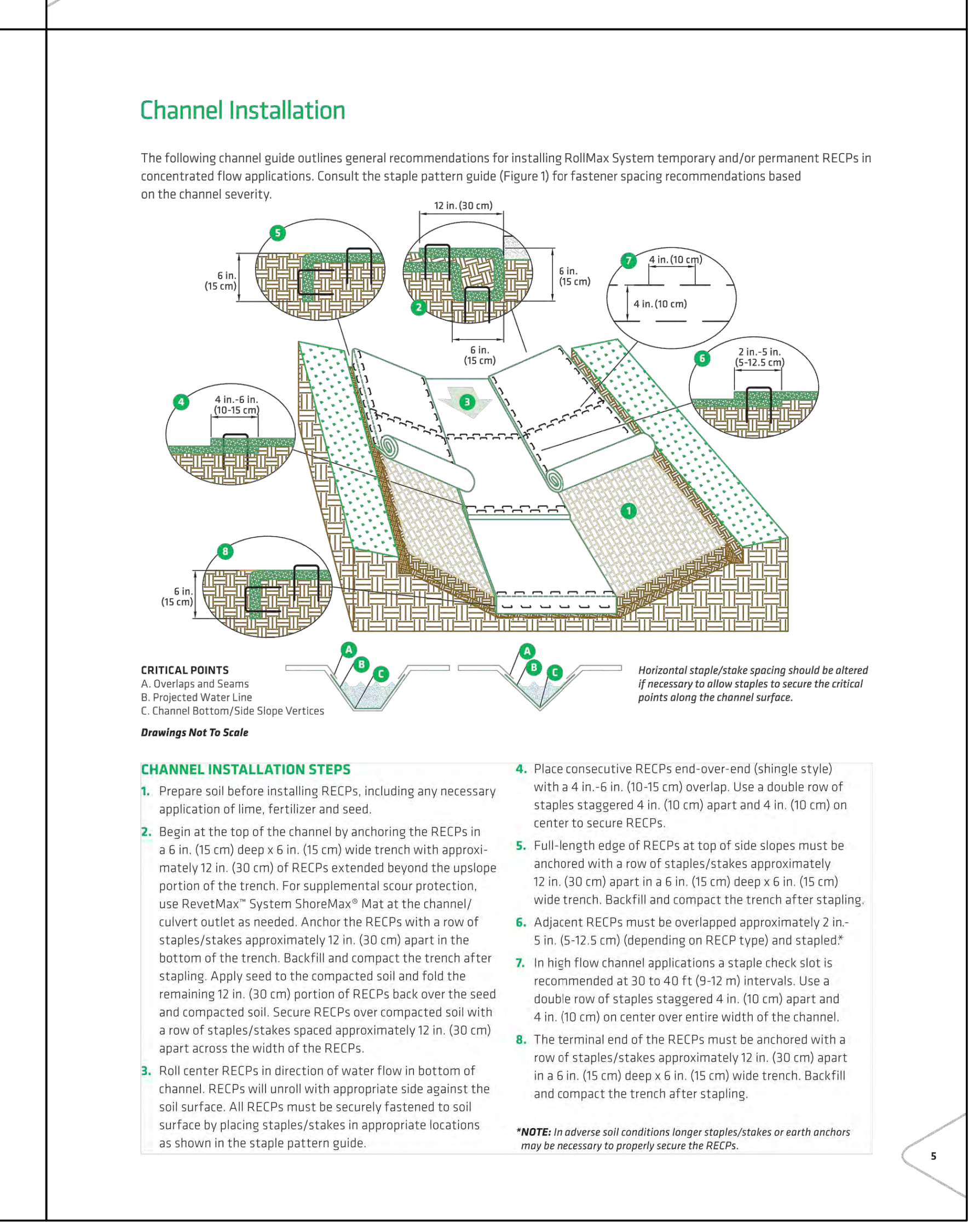
COORDINATE WITH THE CITY FOR THE LATEST "FINE" SIGN WORDING AND REQUIREMENTS PRIOR TO CONSTRUCTION.

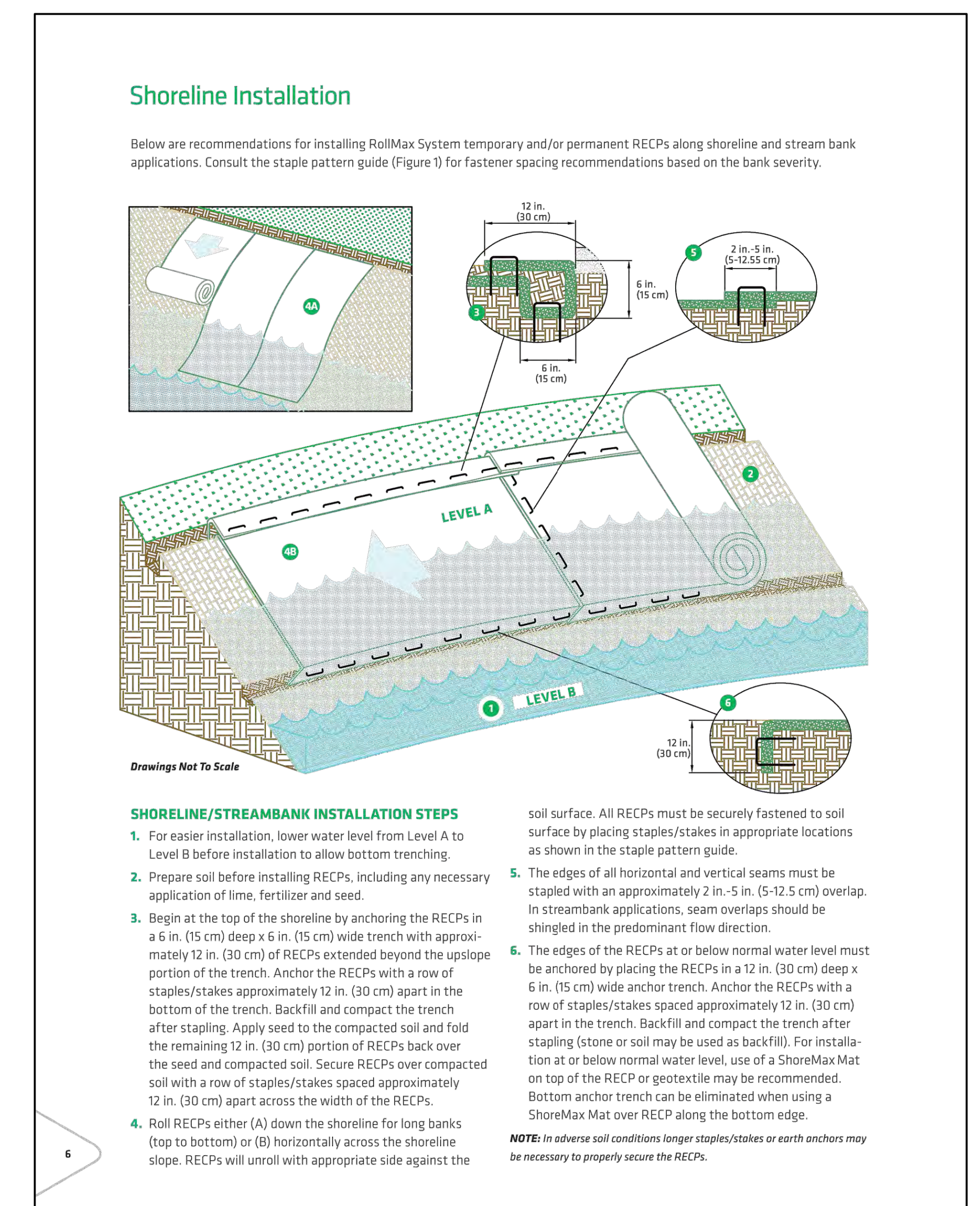
ACCESSIBLE PARKING SIGN
N.T.S.











PROJECT TITLE

AMBERLEIGH
O'FALLON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-sur.com
Corporate Certificate of Authority #001348

Date: 5-18-2021
Jason D Howell
License No. PE 2007002801
Professional Engineer

LOMBARDO HOMES OF ST. LOUIS, LLC
2299 TECHNOLOGY DRIVE, SUITE 150
O'FALLON, MISSOURI 63368
Ph. 636-265-2710
Fax 636-695-3195

MISCELLANEOUS DETAILS

P+Z No.	20-000028
City No.	20-003192
Date:	May 18, 2021
Job No.	14-04-136

Page No.
12.1
IMP

"FINAL PLAN" Approval Date: March 27, 2020