

PERMANENT SEEDING

DEFINITION.
Seeding disturbed areas with perennial grasses and (or) legumes to provide a permanent vegetative cover to lessen runoff and soil erosion.

PURPOSE.
To lessen soil erosion and permanently stabilize disturbed areas created by grading of construction sites.

CONDITIONS WHERE PRACTICE APPLIES.
All bare soil areas on construction sites which are not covered by structures or other erosion control devices.

PREPARATION.
Prepare seedbed by ripping, chiseling, harrowing or plowing to depth of six inches so as to produce a loose, friable surface. Remove all stones, stumps, stumps or debris from the surface which would prohibit germination or plant growth. Spread topsoil in a layer 3" - 6" depth.

Incorporate into the soil 800 to 1,000 pounds of 10-10-10 fertilizer plus 500 pounds of twenty percent (20%) superphosphate per acre and two tons of dolomitic lime per acre unless soil tests indicate that a lower rate of lime can be used.

Mulch after seeding with 1.5 tons of grain straw per acre and either crimp straw into soil or tack with liquid asphalt at 400 gallons per acre or emulsified asphalt at 300 gallons per acre.

PLANTS & MIXTURE	PLANTING RATE/ACRE	PLANTING DATES
Tall Fescue (Low Maintenance)	100-150 lbs.	Aug. 15 - Oct. 15 Feb. 15 - May 1
Tall fescue Waterways and Lawns (High Maint.)	200-250 lbs.	Aug. 15 - Oct. 15 Feb. 15 - May 1
Blend of two turf- type tall Fescues (90%) and two or more improved Kentucky bluegrass varieties (10%) (high maintenance)	200-250 lbs.	Aug. 15 - Oct. 15 Feb. 15 - May 1
Tall Fescue and Kobe or Korean Lespedeza	100 lbs. and 20-25 lbs.	Feb. 15 - May 1 Aug. 15 - Oct. 15
Tall Fescue and German Millet or Sudagrass 2	50 lbs./acre 60 lbs. and 30 lbs.	Nov. 1 - Feb. 1 (Unscarified) July and August
Tall Fescue and Ryegrass 2	70 lbs. and 25 lbs.	Nov. 1 - Jan. 30
Common Bermudagrass	8 lbs. (hulled) 15-20 lbs. (unhulled)	April 15 - June 30 Feb. 1 - March 30

1 For spring seedings, use Scarified Lespedeza seed. For late fall and winter seedings, use unscarified seed.
2 Annuals such as Millet, Sudagrass and Ryegrass must be kept at 10-12" maximum height.

PERMANENT GROUND COVER
Permanent groundcover is to be provided for all disturbed areas within 14 working days or 90 calendar days (whichever is shorter) following completion of construction or development.

TEMPORARY SEEDING SPECIFICATIONS PIEDMONT REGION

Recommended Seeding Dates	Species	Application Rates (lb/ac)			
		Seed	10-10-10 Fertilizer	Agricultural Limestone	Straw
Jan. 1 - May 1	Winter Wheat Annual Lespedeza (Kobe)	120 50	750	2,000	4,000
May 1 - Aug 15	German Millet	40	750	2,000	4,000
Aug 15 - Dec 30	Ryegrass	120	1,000	2,000	4,000

GENERAL EROSION CONTROL NOTES

THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO AVOID THE SILTING OF STREAMS, LAKES OR OTHER WATER COURSES DUE TO THE CONSTRUCTION OF THIS PROJECT.

EFFECTIVE EROSION CONTROL MEASURES SHALL BE INITIATED PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, EXCAVATION, OR OTHER OPERATIONS THAT WILL DISTURB THE NATURAL PROTECTION. THE EROSION CONTROL DETAILS SHOWN HEREIN ARE FOR THE CONTRACTOR'S REFERENCE. THE DETERMINATION OF WHICH DETAIL IS APPLICABLE AS THE WORK PROGRESSES SHALL BE AS SHOWN ON THE PLANS OR MADE BY THE ENGINEER.

ALL DITCHES SHALL BE STABILIZED AS SOON AS IS PRACTICABLE TO MINIMIZE EROSION.

THE CONTRACTOR IS REFERRED TO THE DETAILED SPECIFICATIONS FOR A DESCRIPTION OF ADDITIONAL EROSION CONTROL REQUIREMENTS.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN A GOOD, WORKING STATE OF REPAIR UNTIL THEIR USE IS NO LONGER WARRANTED. AT THAT TIME, THE EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF SO AS TO CAUSE NO STREAM SILTATION.

WHERE CULVERT PIPES ARE TO BE INSTALLED UNDER ROADWAYS, THE CONTRACTOR SHALL INSTALL THE CULVERTS AS RAPIDLY AS IS PRACTICAL, BACK FILL IMMEDIATELY AND RIP RAP THE UPSTREAM AND DOWNSTREAM SIDES OF THE STREAM CHANNEL.

Rowan/Kannapolis
ABC STORE &
WAREHOUSE
Salisbury, NC
STANDARD AND EROSION
CONTROL DETAILS



SHEET NO.

C-8
OF 8

8K
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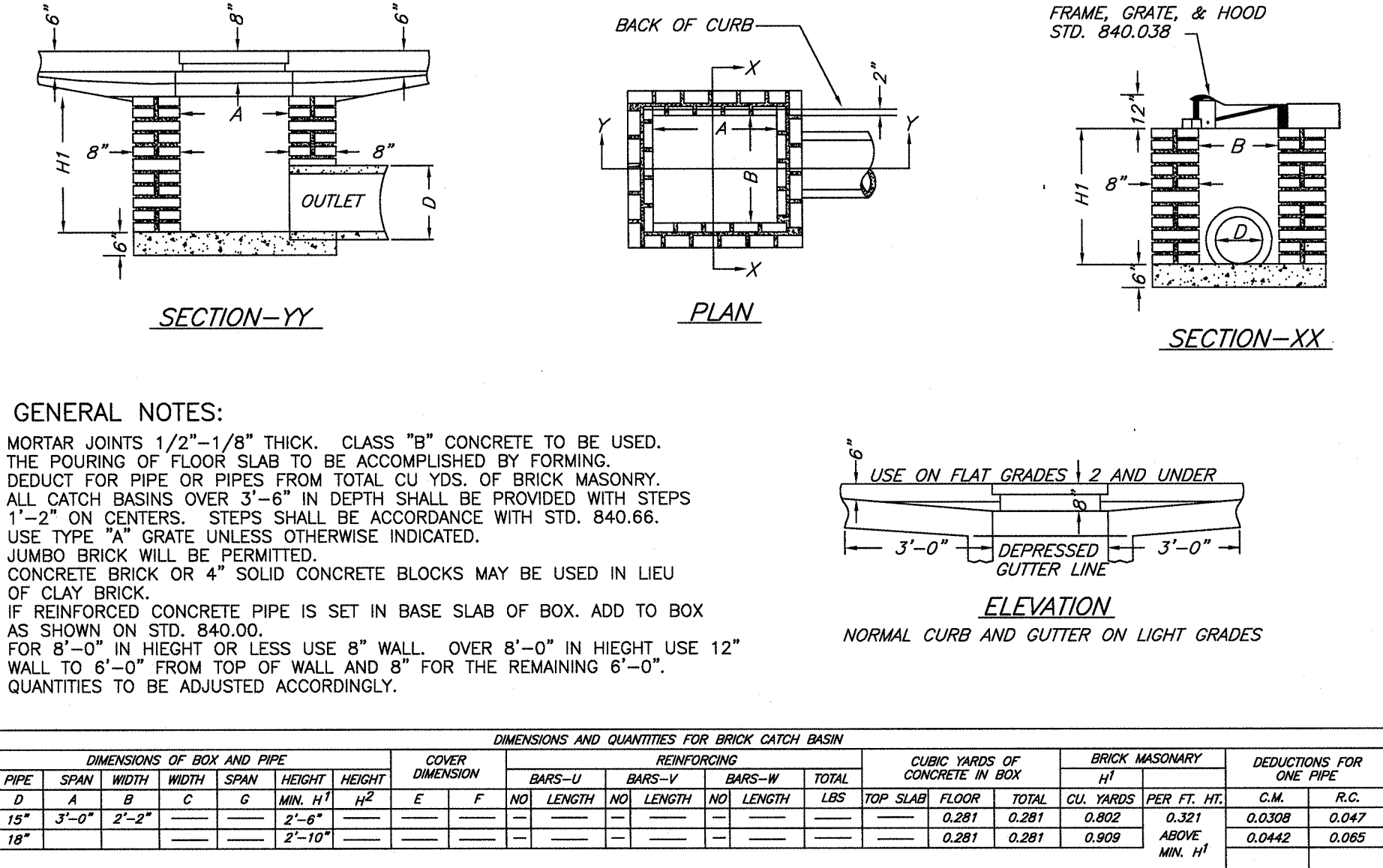
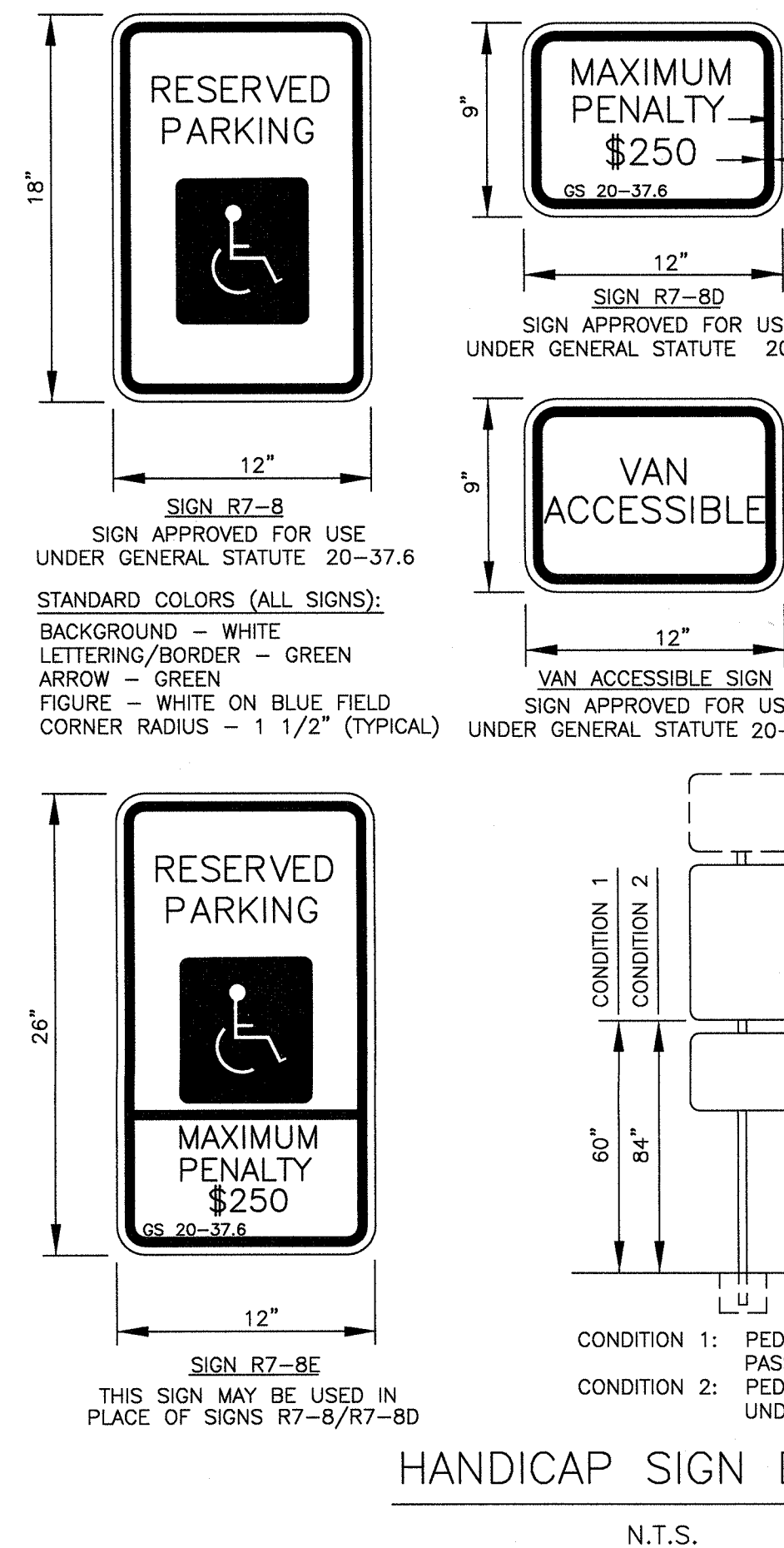
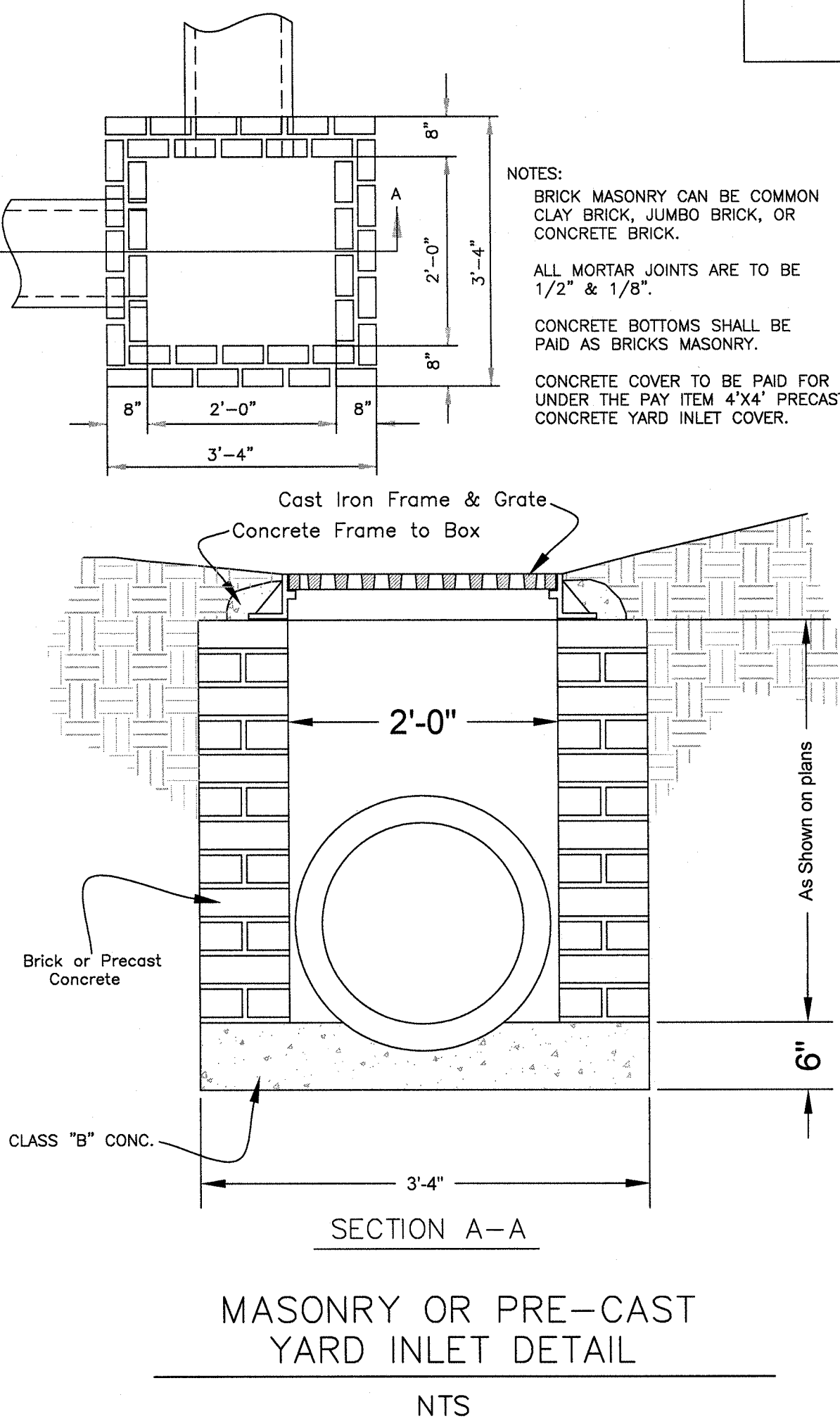
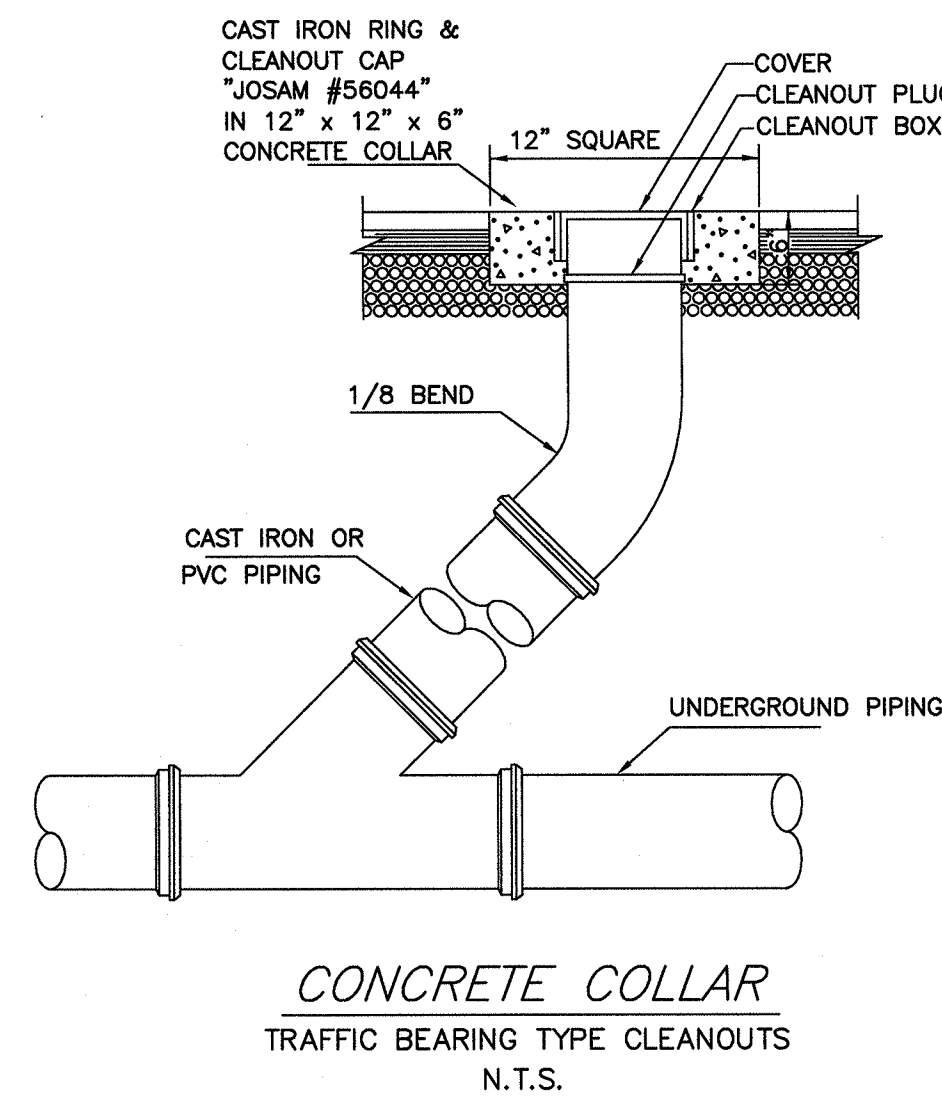
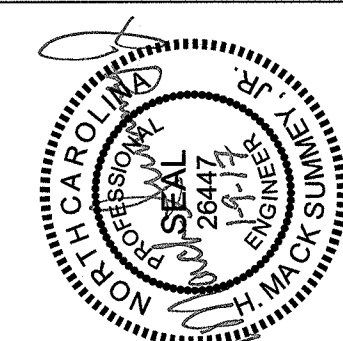
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Date:	1/26/17
No.	1

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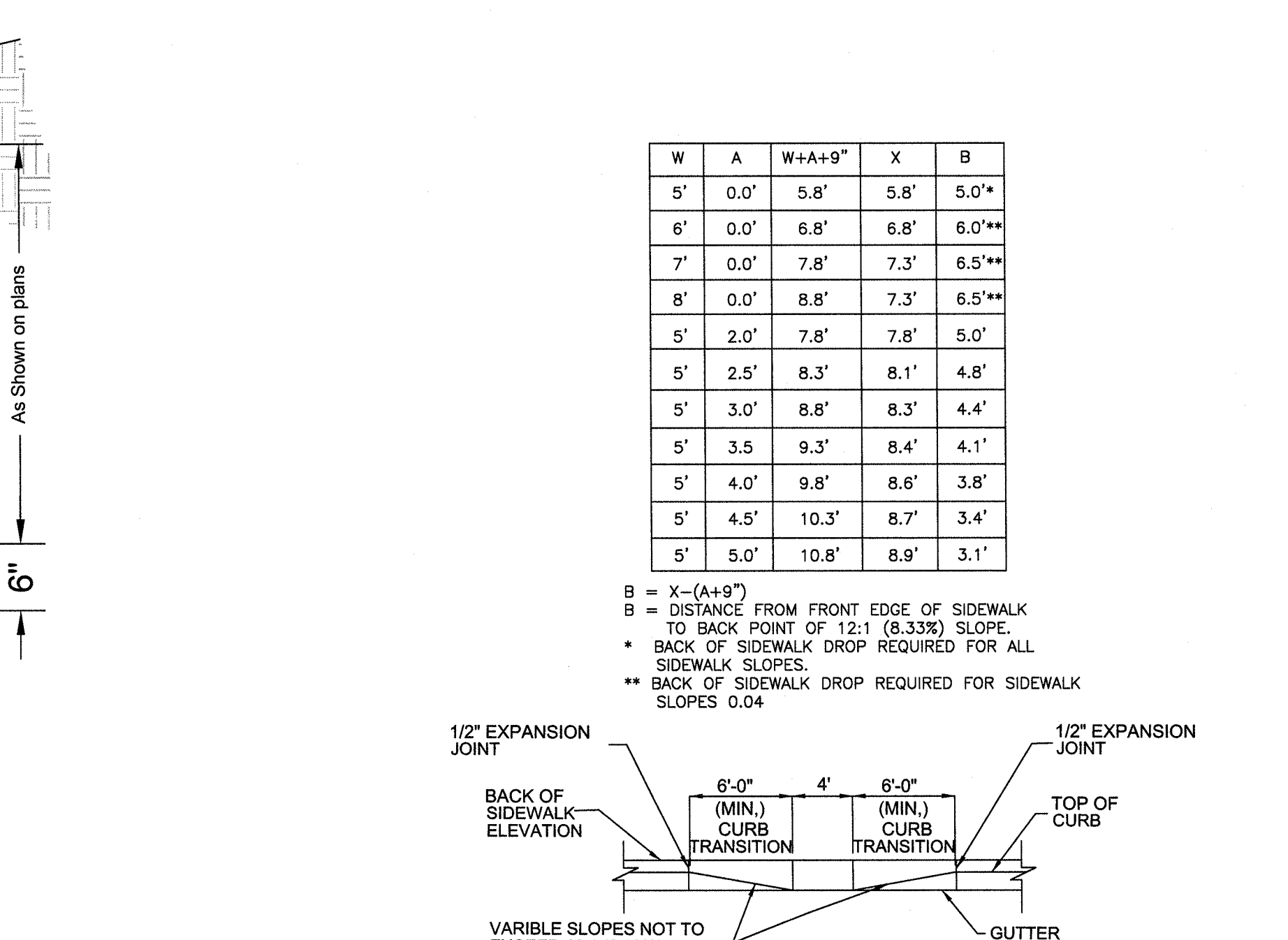
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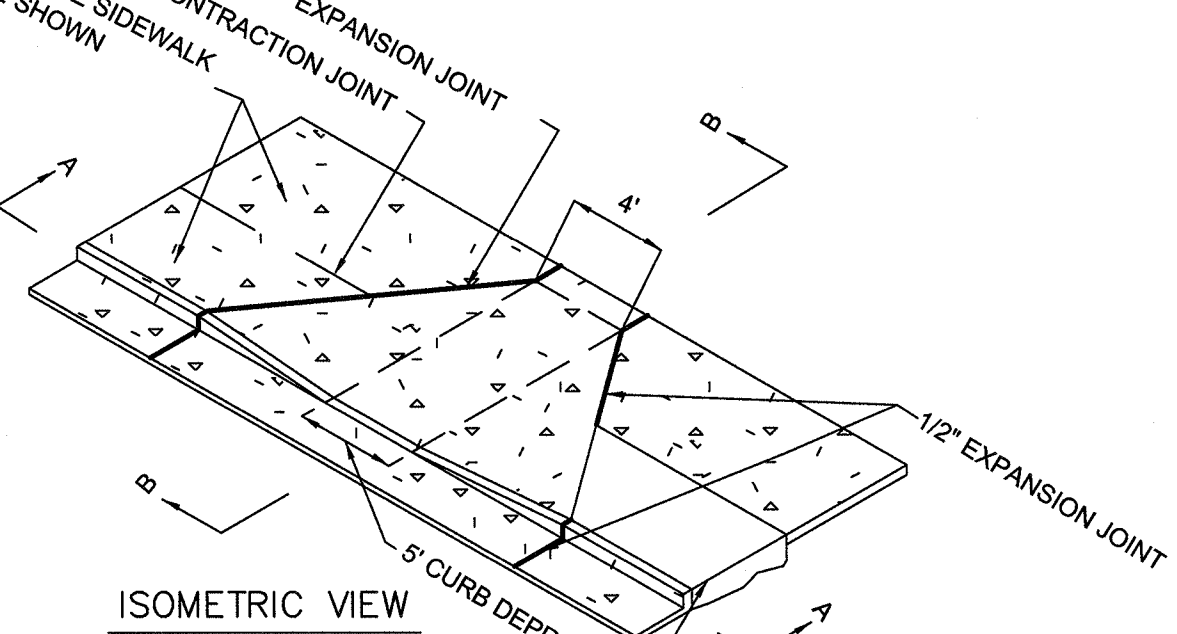
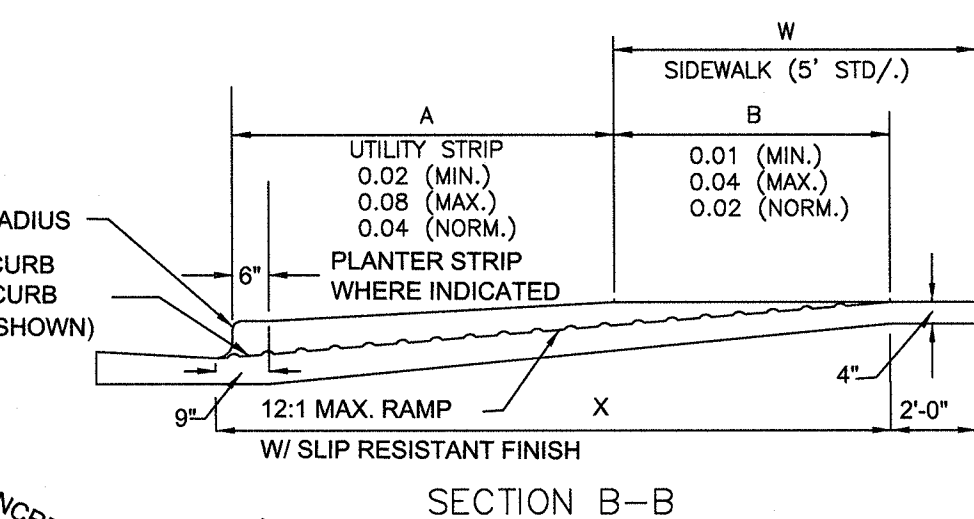
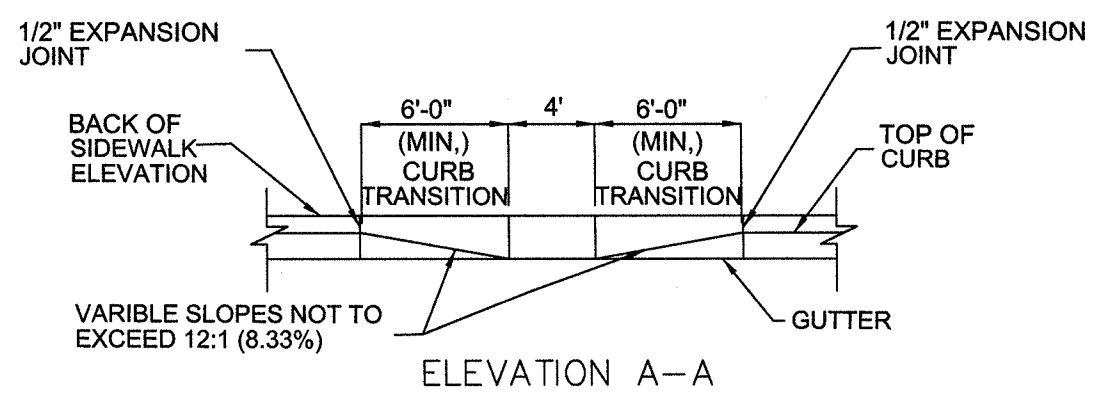
STANDARD BRICK CATCH OR PRE-CAST BASIN NTS

DIMENSIONS OF BOX AND PIPE										DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN									
PIPE	SPW	WIDTH	WIDTH	SPW	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER
D	A	B	C	D	MIN. H	MIN. H	MIN. H	MIN. H	MIN. H	E	F	G	H	I	J	K	L	M	N
18"	3'-0"	2'-4"			2'-0"	2'-4"	2'-0"	2'-4"	2'-0"										
18"	3'-0"	2'-4"			2'-0"	2'-4"	2'-0"	2'-4"	2'-0"										



W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0**
6'	0.0'	6.8'	6.8'	6.0**
7'	0.0'	7.8'	7.3'	6.5**
8'	0.0'	8.8'	7.3'	6.5**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.

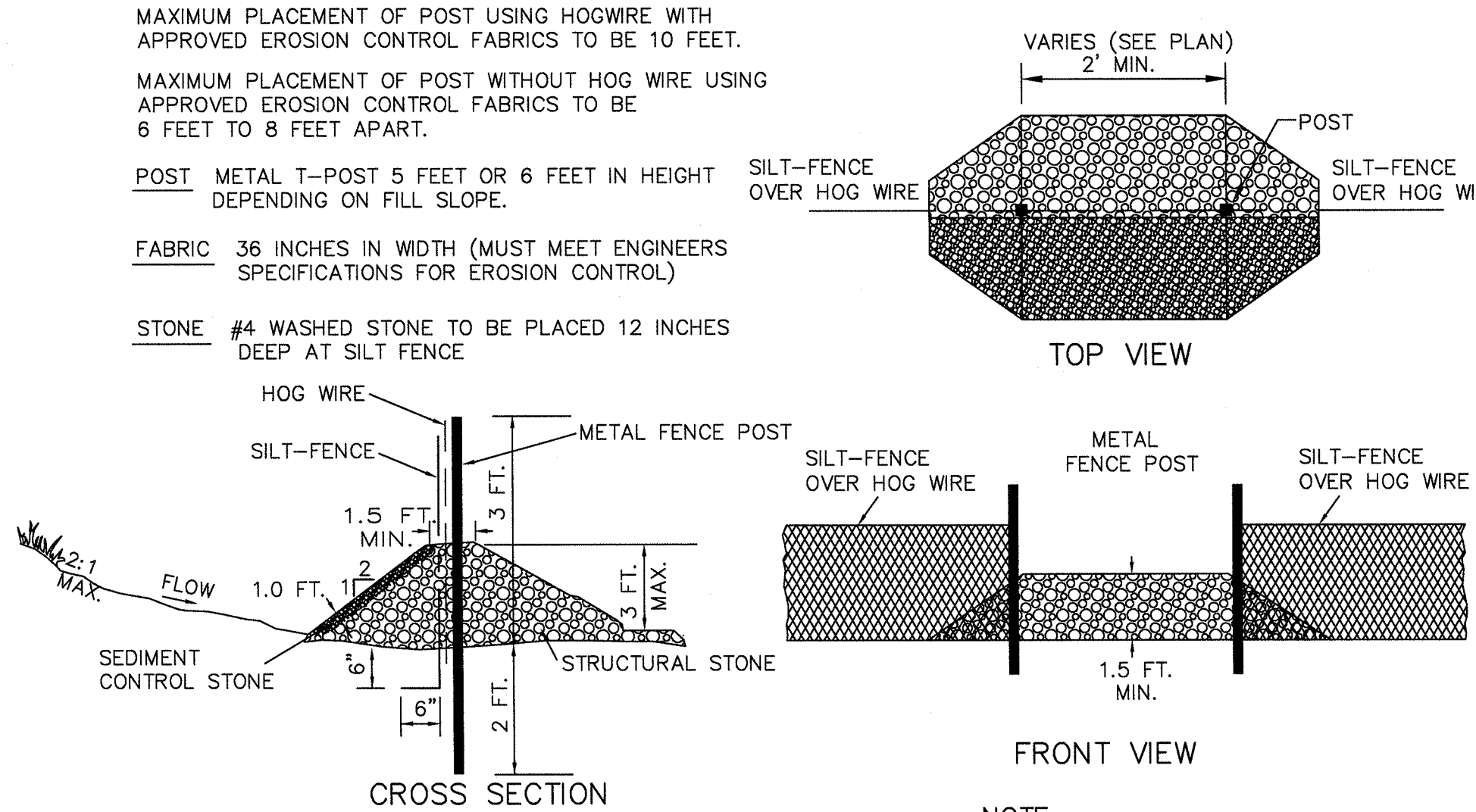


HANDICAP CURB RAMP DETAIL N.T.S.

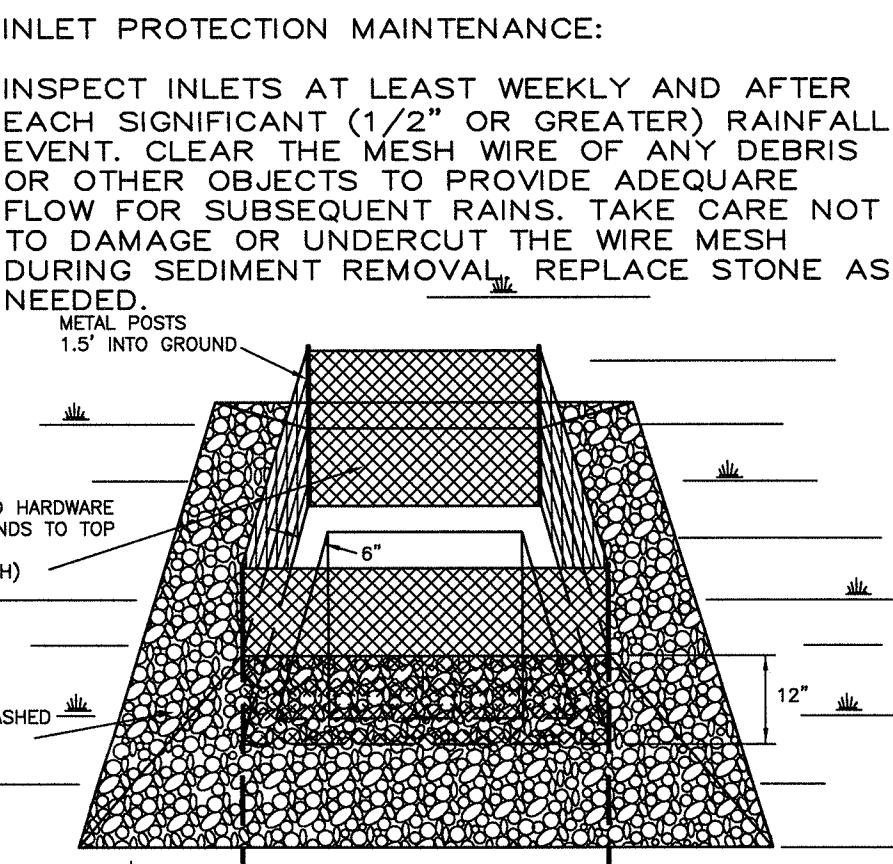
- WHEELCHAIR RAMP NOTES.**
- WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS; HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC., AFFECT PLACEMENT, AT ALL LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN THE RAMPS.
 - THE LOCATION OF THE RAMP SHALL BE COORDINATED WITH THE CROSSWALK LINES, SO THAT THE BEGINNING OF THE RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
 - NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1" VERTICAL IN 12" HORIZONTAL (12:1) OR 8.33%.
 - THE WALKING SURFACE SHALL BE SLIP RESISTANT, SUCH AS A STIFF BROOM FINISH.

- CONSTRUCTION SPECIFICATIONS.**
- STONE - USE COARSE AGGREGATE (3/4 INCH STONE)
 - LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100 FEET
 - THICKNESS - NOT LESS THAN EIGHT (8) INCHES
 - WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INTERFERENCE
 - WASHING - WHEN NECESSARY WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE, THROUGH USE OF SAND BAGS, GRAVEL, BARRIERS OR OTHER APPROVED METHODS.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

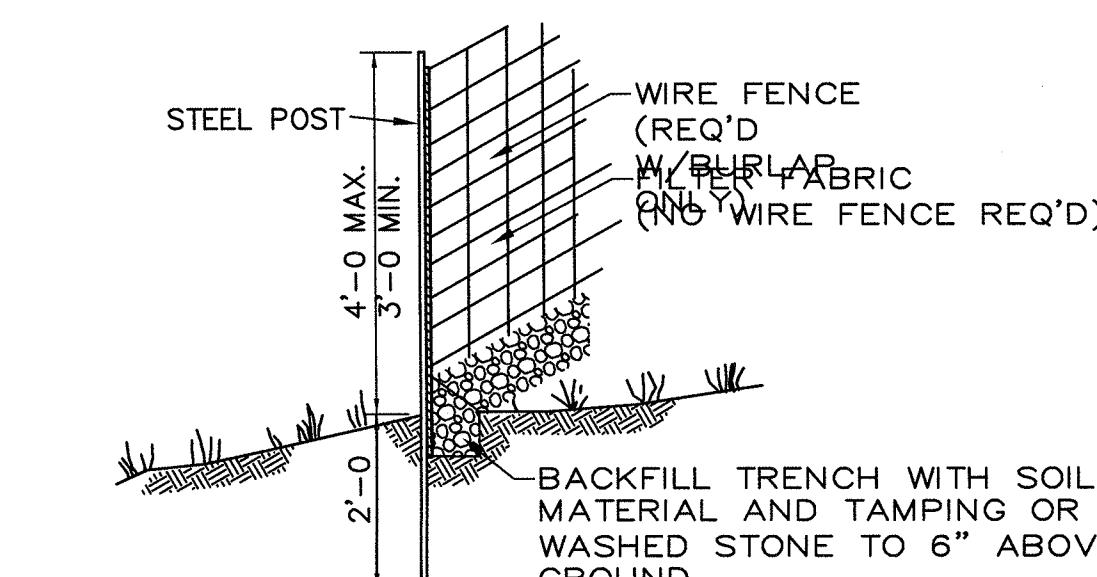
STABILIZED CONSTRUCTION ENTRANCE N.T.S.



TEMPORARY STONE OUTLET N.T.S.



HARDWARE CLOTH AND GRAVEL YARD INLET PROTECTION NTS



- DRIVE STEEL POST INTO GROUND AND EXCAVATE A 6" X 6" TRENCH UPHILL ALONG THE LINE OF POSTS, MAX. 8' BETWEEN POSTS.
- ATTACH WIRE FENCE TO POSTS AND EXTEND THE BOTTOM OF THE FENCE 6" INTO THE EXCAVATED TRENCH.
- ATTACH THE FABRIC TO THE WIRE FENCE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH.
- BACKFILL THE TRENCH AND COMPACT FIRMLY TO ANCHOR THE BOTTOM OF THE SILT FENCE SO THAT RUNOFF IS FORCED TO GO THRU THE FENCE AND CANNOT GO UNDER IT.

TEMPORARY SILT FENCE N.T.S.