



CITY OF DURHAM
DEPARTMENT OF PUBLIC WORKS
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www.durhamnc.gov

- Engineering
- Stormwater Services
- Street Maintenance
- Transportation

December 29, 2010

MEMO TO: Prospective Bidders

FROM: Byron E. Brady, PE, Contract Management Supervisor

SUBJECT: **Addendum No. 2**
City of Durham Contract SW-26 – 2011 Sidewalk Construction Project

Request for Information

Request No. 1: Please provide a detail for Item #38 Install Chain Link Fence.

Response No. 2: Three NCDOT Fence pdfs have been attached to this Addendum for your use.

Request No. 2: Are the sidewalk and curb contraction and expansion joints required to be sealed?

Response No. 2: We do not require that the sidewalk expansion joints be sealed unless it is in a subdivision. The joint between the sidewalk and the curb should be sealed if the sidewalk comes in contact with the curb. Generally, we do not have the sidewalk come in contact with the curb. There is usually a 1 to 2 foot verge area between the sidewalk and the curb.

Request No. 3: Can you explain to me the Grading Construction Limits Pay Item and why it's in CY not SY.

Response No. 3: The "Grading Construction Limits" is a pay item used when there will be cut or fill on the project. For this item we put in the "cut" quantity. This item was applied to Markham Avenue and Club Blvd. On Markham Avenue we are removing a portion of a hill to improve visibility at the intersection of Markham and Washington Street. For Club Blvd we put in a value just in case grading was required. The unit of measurement should be CY.

The deadline for submitting questions regarding this project was yesterday, Wednesday, December 29, 2010. We cannot guarantee answers to any questions submitted after that date.

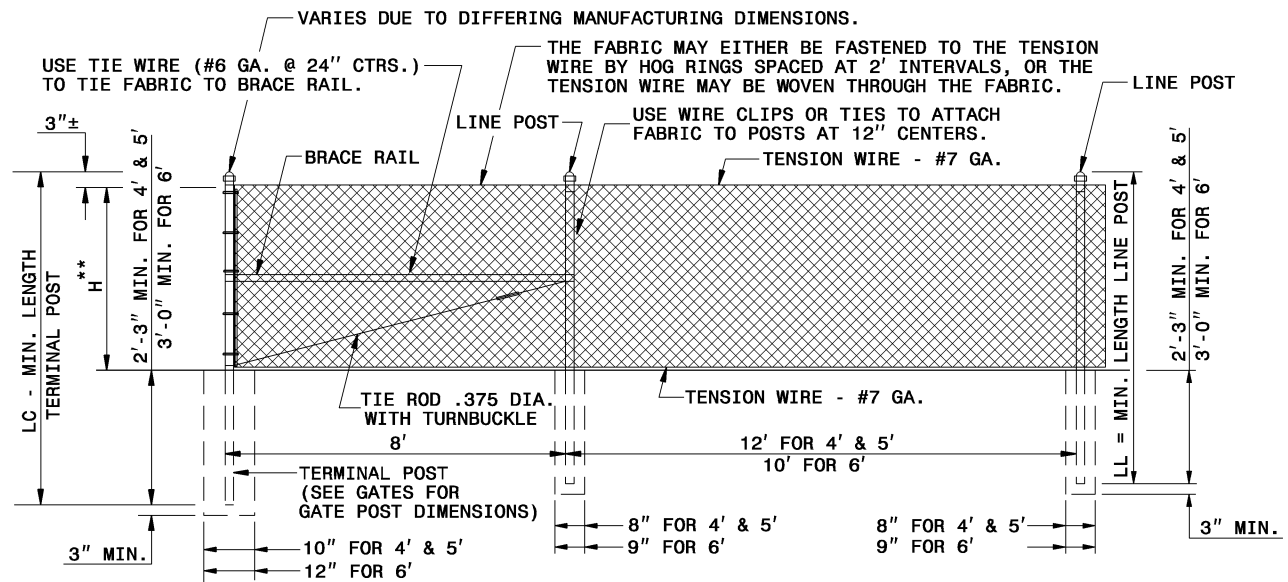
Bid Date Reminder:

The City will open sealed bids for this project on Wednesday, January 5, 2011 at 2:00 PM in the Public Works Conference Room, 3rd floor, Durham City Hall.

Should you have any questions, please feel free to contact me.

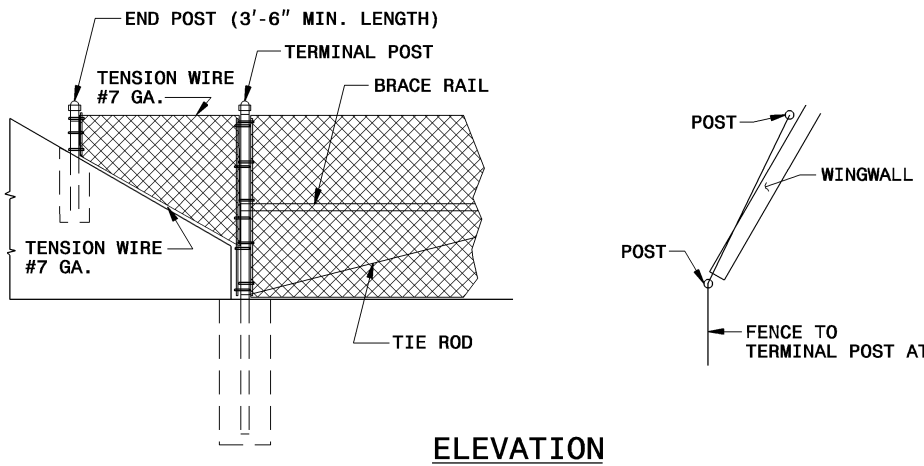
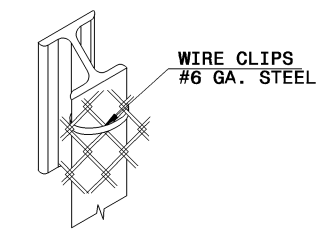
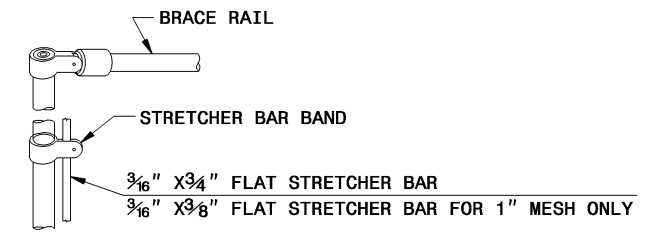
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7-06

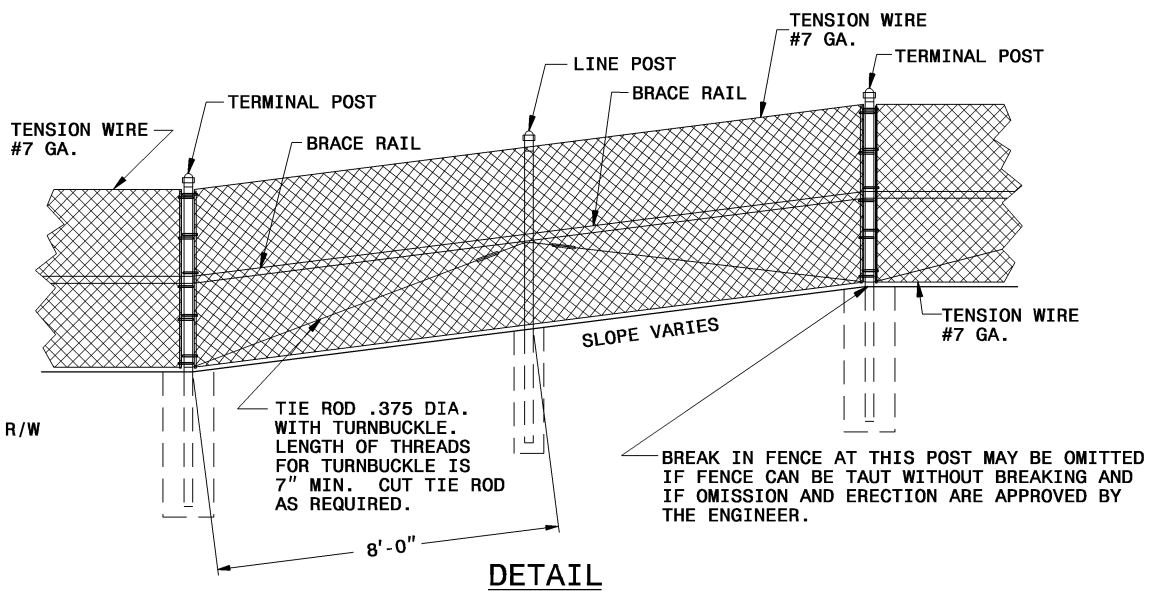


**"H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT.

NOTE: ROLL FORMED LINE POST MAY BE DRIVEN TO A MINIMUM OF 3'-0" IN LIEU OF CONCRETE ANCHOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



METHOD OF TYING FENCE TO ENDWALL

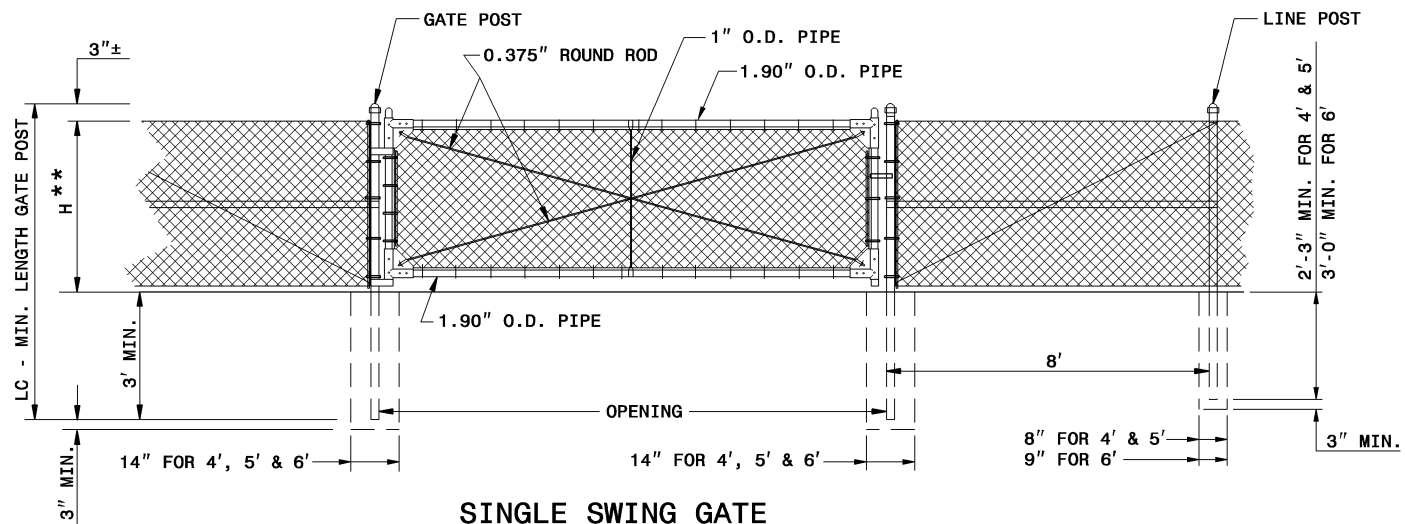


METHOD OF CONSTRUCTING FENCE ON SHARP BREAK IN GRADE

NOTES:
CAPS ARE REQUIRED ON PIPE POST. CAPS ARE NOT REQUIRED ON "H" POST OR ROLL FORMED POST. INSTALL FENCE FABRIC ON THE SIDE FARTHEST FROM THE HIGHWAY EXCEPT THAT ON HORIZONTAL CURVES GREATER THAN THREE DEGREES, INSTALL THE FENCE TO PULL AGAINST LINE POST. CONSIDER ALL CHANGES IN DIRECTION OF FENCE LINE OF 30° OR MORE AS CORNERS.

7-06

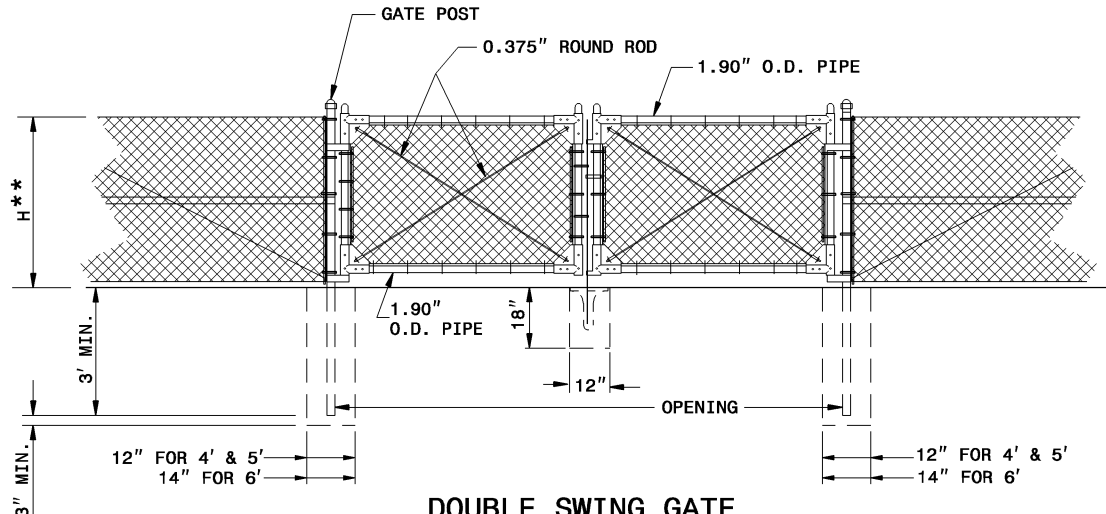
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SINGLE SWING GATE

**"H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT.

NOTE: ROLL FORMED LINE POST MAY BE DRIVEN TO A MINIMUM OF 3'-0" IN LIEU OF CONCRETE ANCHOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

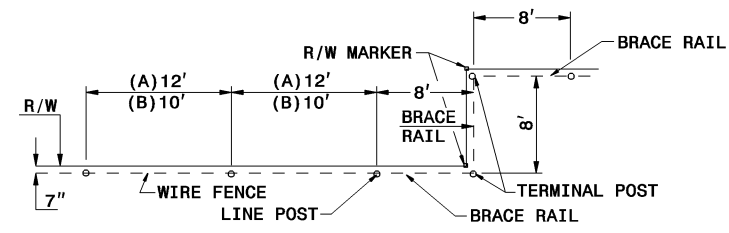
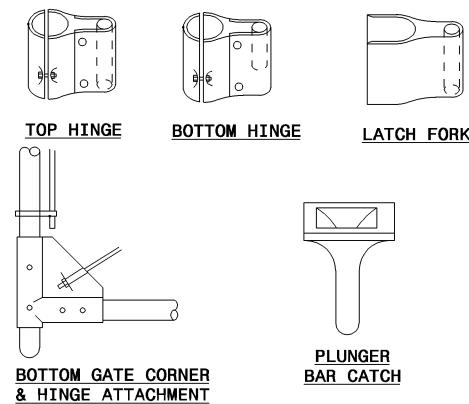


DOUBLE SWING GATE

USE WHERE SWINGING CLEARANCE IS LIMITED

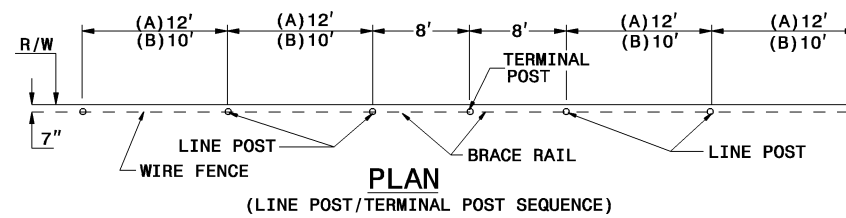
MAXIMUM WIRE SPACING TO BE 6".
MAXIMUM CLEARANCE BETWEEN LOWEST STRAND AND GROUND TO BE 6".
ERECT BRACE RAILS BETWEEN TERMINAL OR GATE POSTS AT INTERVALS NOT EXCEEDING 700' ON TANGENTS OR 350' ON SHORT RADIUS CURVES.
ERECT ADDITIONAL TERMINAL POSTS IF DIRECTED BY THE ENGINEER.
BRACE TERMINAL POSTS FROM BOTH SIDES OF POST.

NOTE: FENCE HARDWARE VARIES DUE TO DIFFERING MANUFACTURES SUPPLIES.



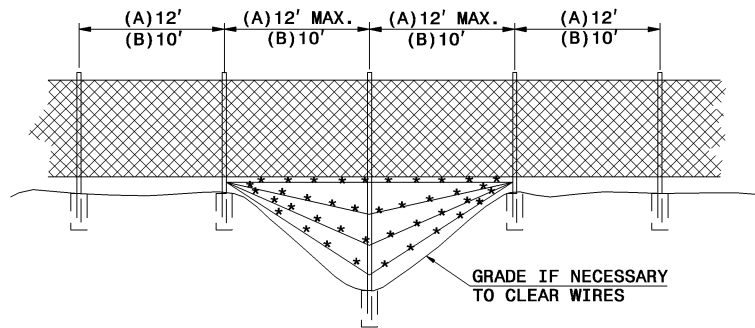
PLAN

PLACEMENT OF FENCE ALONG RIGHT OF WAY
(BRACE ALL TERMINAL POSTS AS SHOWN ABOVE)

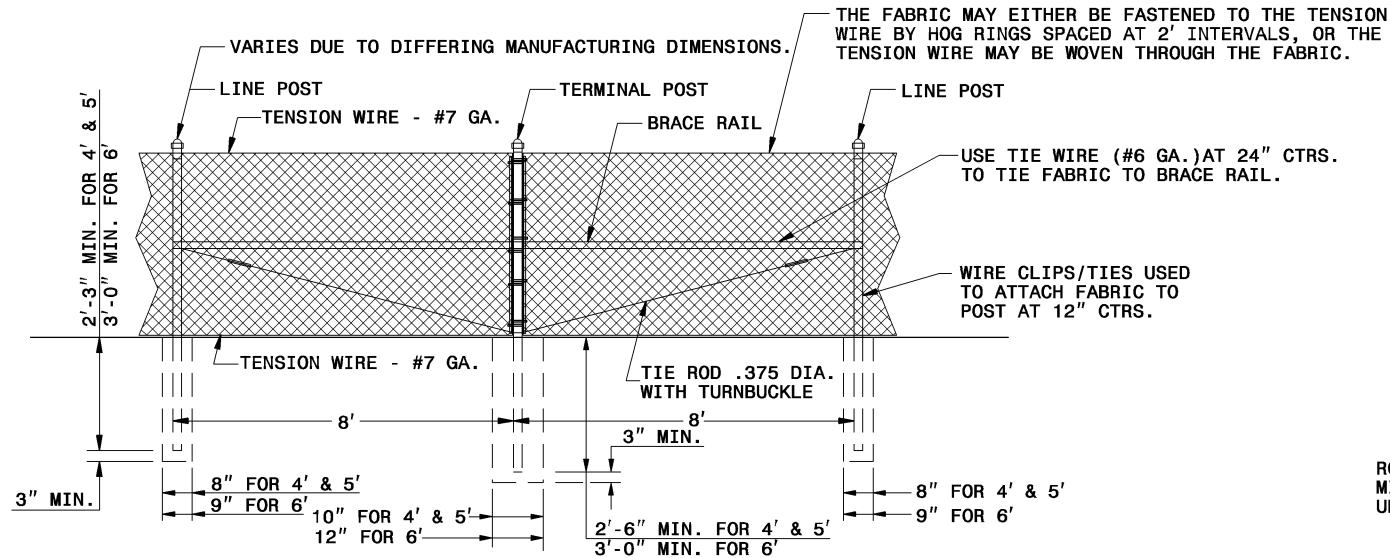


PLAN

(LINE POST/TERMINAL POST SEQUENCE)

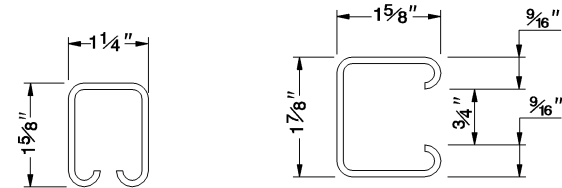


DETAIL OF DITCH CROSSING



LINE BRACE DETAIL

** "H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT.



BRACE RAIL
(ROLL FORMED)

LINE POST
(ROLL FORMED)

ROLL FORMED LINE POST MAY BE DRIVEN TO A MINIMUM OF 3'-0" IN LIEU OF CONCRETE ANCHOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

FABRIC	GALV. STEEL OR ALUMINUM COATED STEEL #11 GAGE			ALUMINUM ALLOY OR ALUMINUM COATED STEEL (#11 GAGE)	
	GALVANIZED STEEL #11 GAGE			ALUMINUM ALLOY	
	SYSTEM	G1	G2	G3	A1
LINE POST	1.90" O.D. STEEL PIPE	1.625" X 1.875" STEEL H	1.625" X 1.875" STEEL R.F.	2.375" O.D. ALUMINUM PIPE	2.00" X 2.50" ALUMINUM PIPE
TERMINAL POST (END, CORNER, BRACES)	2.375" O.D. STEEL PIPE	2.375" O.D. STEEL PIPE	2.375" O.D. STEEL PIPE	2.875" O.D. ALUMINUM PIPE	2.875" O.D. ALUMINUM PIPE
GATE POST UP THRU 6' LEAF	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE	2.875" O.D. ALUMINUM PIPE	2.875" O.D. ALUMINUM PIPE
GATE POST 7' THRU 12' LEAF	4.000" O.D. STEEL PIPE	4.000" O.D. STEEL PIPE	4.000" O.D. STEEL PIPE	4.000" O.D. ALUMINUM PIPE	4.000" O.D. ALUMINUM PIPE
BRACE RAIL	1.660" O.D. STEEL PIPE	1.660" O.D. STEEL PIPE	1.250" X 1.625" STEEL R.F. OR 1.660" O.D. STEEL PIPE	1.660" O.D. ALUMINUM PIPE	1.660" O.D. ALUMINUM PIPE

FOR 4' AND 5' FENCE SYSTEMS

FABRIC	GALV. STEEL OR ALUMINUM COATED STEEL #11 GAGE		
	GALVANIZED STEEL		
	SYSTEM	G1	G2
LINE POST	2.375" O.D. STEEL PIPE	1.625" X 1.875" STEEL H	1.625" X 1.875" STEEL R.F.
TERMINAL POST (END, CORNER, BRACES)	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE
GATE POST UP THRU 6' LEAF	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE	2.875" O.D. STEEL PIPE
GATE POST 7' THRU 12' LEAF	4.000" O.D. STEEL PIPE	4.000" O.D. STEEL PIPE	4.000" O.D. STEEL PIPE
BRACE RAIL	1.660" O.D. STEEL PIPE	1.660" O.D. STEEL PIPE	1.250" X 1.625" STEEL R.F. OR 1.660" O.D. STEEL PIPE

FOR 6' FENCE SYSTEMS

ALLOWABLE COMPONENTS FOR FENCE SYSTEMS