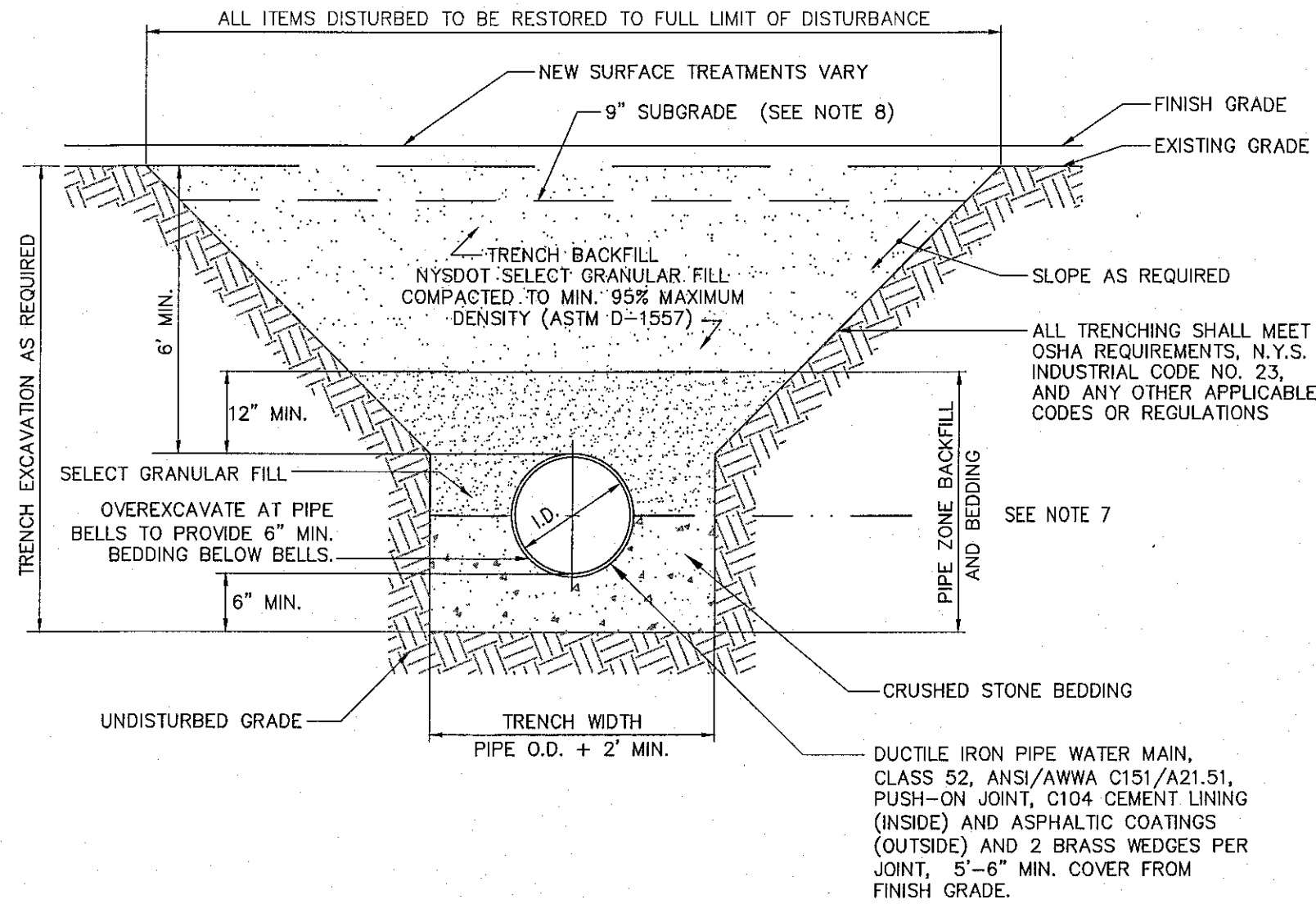


TYPICAL THRUST BLOCK
FOR HORIZONTAL BENDS
N.T.S.

THRUST BLOCK FOR PLUG
THRUST BLOCK FOR REDUCER
N.T.S.

AREA OF BEARING FACE OF CONCRETE THRUST BLOCK IN SQ. FT., BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL (SEE NOTES BELOW)									
PIPE SIZE LINE PRESSURE		BENDS						TEE/PLUG	
		90°	56 1/4°	45°	33 3/4°	22 1/2°	11 1/2°	5	REDUCER
4" 6"	100 psi	7	5	4	3	3	3	5	12"-6":15
4" 6"	215 psi	10	7	6	5	3	3	4" 6":8" 8":13	12"-8":21
12"	100 psi	28	18	15	12	8	5	20	12"-8":11
12"	215 psi	40	26	22	17	11	6	28	12"-8":16
16"	215 psi	—	—	—	—	—	—	50	16"-12":22



NOTES:

- WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA), NYSDOH, NYSDOC, AMERICAN WATER WORKS ASSOCIATION (AWWA), GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE & PROVINCIAL PUBLIC HEALTH & ENVIRONMENTAL MANAGERS "RECOMMENDED STANDARDS FOR WATER WORKS (GLUMRB-TEN STATE STANDARDS)
- WET TRENCH CONDITIONS: REPLACE SAND WITH A 1:1 MIX RATIO OF NYSDOT NO. 1 AND NO. 2 CRUSHED STONE PER TABLE 703-4, AS THE PIPE ZONE BEDDING & BACKFILL MATERIAL.
- ALL ITEMS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THE FULL LIMIT OF DISTURBANCE AT THE CONTRACTOR'S EXPENSE.
 - PAVEMENT AREAS ONLY: RESTORE DISTURBED AREAS IN ACCORDANCE WITH ASPHALT CONCRETE PAVEMENT DETAILS.
 - LAWN AREAS ONLY: RESTORE DISTURBED AREAS WITH MIN. 4" TOPSOIL, SEED, MULCH, & JUTE MESH.
- ALL NEW WATER SYSTEMS SHALL BE HYDROSTATIC PRESSURE TESTED IN ACCORDANCE WITH ANSI/AWWA C600 STANDARDS PRIOR TO PLACING IN SERVICE.
- ALL NEW WATER SYSTEMS SHALL BE DISINFECTED IN ACCORDANCE WITH ANSI/AWWA C655 STANDARDS PRIOR TO PLACING IN SERVICE. PROVIDE COPIES OF BACTERIOLOGICAL TEST RESULTS TO THE TOWN.
- DISPOSE OF CHLORINATED WATER FROM ANY PIPE OR STRUCTURE SO IT WILL NOT CAUSE DAMAGE TO ANY VEGETATION, FISH OR ANIMAL LIFE. CONTACT THE STATE REGULATORY AGENCY FOR CONDITIONS OF DISPOSAL TO NATURAL DRAINAGE COURSES. IF THERE IS A POSSIBILITY THAT CHLORINATED DISCHARGE WILL CAUSE DAMAGE TO THE ENVIRONMENT, DECHLORINATE THE WATER TO NEUTRALIZE THE CHLORINE RESIDUE REMAINING IN THE WATER.
- THE EXCAVATED TRENCH MATERIAL SHALL BE DEPOSITED AT THE SIDES OF THE TRENCHES AND USED FOR BACKFILL UNLESS DECLARED TO BE UNSUITABLE BY THE ENGINEER. BACKFILLING IN TRENCHES IN WHICH PIPE HAS BEEN LAID SHALL BE DEVOID OF STONES LARGER THAN 2" FOR AT LEAST ONE FOOT ABOVE THE TOP OF THE PIPES. UNSUITABLE EXCAVATED MATERIAL SUCH AS PEAT, MUCK, ROCK, ETC. SHALL BE REMOVED FROM THE SITE AND REPLACED WITH MATERIAL ACCEPTABLE TO THE ENGINEER AND AT THE CONTRACTORS EXPENSE.
- SUBGRADE SHALL BE SELECT GRANULAR FILL, NYSDOT ITEM 203.07, COMPACTED IN 6" LIFTS.

WATER MAIN TRENCH DETAIL

SCALE: NTS

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
By direction of the Chairman,
These drawings are hereby approved.
See sheet(s) C-7
for date and signature.

TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL
- SCANNED -

0 1 2 INCHES

PLANNING BOARD APPROVAL

NOTE: WATER MAIN TO BE INSTALLED ACCORDING TO TOWN STANDARDS.

ERDMAN
ANTHONY



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DATE DATE

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS
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EDUCATION LAW ARTICLE 145, SECTION 7209.

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	REVISED DETAIL	RLD	3/12/13
2	REVISED PER TOWN	RLD	7/19/13

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CLIENT:

BENDERSON
DEVELOPMENT
COMPANY, LLC

PROJECT NAME:

GLENMONT PLAZA –
380 FEURA BUSH
ROAD PROPOSED
PAD SITE

DRAWING TITLE:

WATER MAIN
DETAILS

SCALE: N.T.S.	DATE: FEB. 2013
DES. BY: RLD	DR. BY: MFJ
CK'D BY: RLD	EA PROJECT NO. 1700C.55
SHEET NO. 10 OF 13	DRAWING NO. C6.1