



City of Broken Bow

Project No. 2146



ADDENDUM NO. 1 TO THE CONTRACT DOCUMENTS

CITY OF BROKEN BOW, BROKEN BOW, OK

2146 – OKA PARK ADDITIONS, PHASE 3

This Addendum No. 1 issued by Crist Engineers, Inc. is hereby made a part of the Contract Documents to the same extent as though it were originally included therein. Please read the following items and acknowledge receipt of this addendum on the proposal form when submitting bids.

1. Conditional Approved Equal

Engineers acceptance of pre-approved or approved equal submissions will not relieve Contractor from his responsibility for any deviation from the requirements of the Contract Documents unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has given written approval to the specific deviation, nor shall any acceptance by Engineer relieve contractor from responsibility for errors or omissions in pre-approved or approved equal submissions.

2. Contract Documents

- a. Revision of 010250 Measurement and Payment, page 5, Bid Item 16, Splash Pad, Complete**

“...plumbing cement, water feature lines, drain boxes, fittings, connectors, all pipe (drain, water feature, et al.) from connection points as identified on the plans, valves (manual or electrically actuated) fittings, adjustment to existing water feature lines, adjustments to existing utilities, water service, insulation, electrical/ controls (including programming or software) related to installation.”

3. Plans

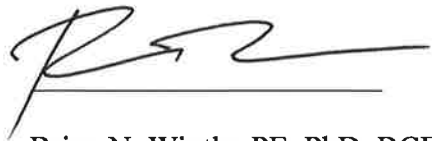
- a.** Revise Notes No. 4, Plan Sheet No. 2, “If necessary, all adjustments to existing utilities, including electrical, water service, and water feature lines shall be considered subsidiary to the splash pad, completed lump sum bid item.”
- b.** Delete and Replace Plan Sheet No. 4 with Plan Sheet No. 4 Addendum No. 1
- c.** Delete and Replace Plan Sheet No. 10 with Plan Sheet No. 10 Addendum No. 1
- d.** Delete and Replace Plan Sheet No. 11 with Plan Sheet No. 11 Addendum No. 1
- e.** Revise Plan Sheet No. 12, Detail E, Concrete Cap, all locations, ~~6-x-6~~ 4 x 4, W1.4 x W1.4 WWF as identified in the plan and sections of the detail

End of Addendum No. 1

All other provisions of the Plans and Contract Documents shall remain in full force and effect.

Please reference Article 7 of the Instructions to Bidders, the Engineer may not respond to any questions, comments or inquiries provided by the Contractor between the date of the issuance of Addendum No. 1 and prior to the bid opening.

Issues by CRIST ENGINEERS, INC.



Brian N. Wintle, PE, PhD, BCEE



Please EMAIL this form to Crist Engineers, Inc. at:

abrown@cristengineers.com; bwintle@cristengineers.com

Please call Brian N. Wintle at 501-664-1552 if you have any questions.

The Bidder shall acknowledge receipt of Addendum No. 1 by return EMAIL.

Bidder shall acknowledge Addendum No. 1 on Section 004100 Bid Form (C-410).

Acknowledged by: _____

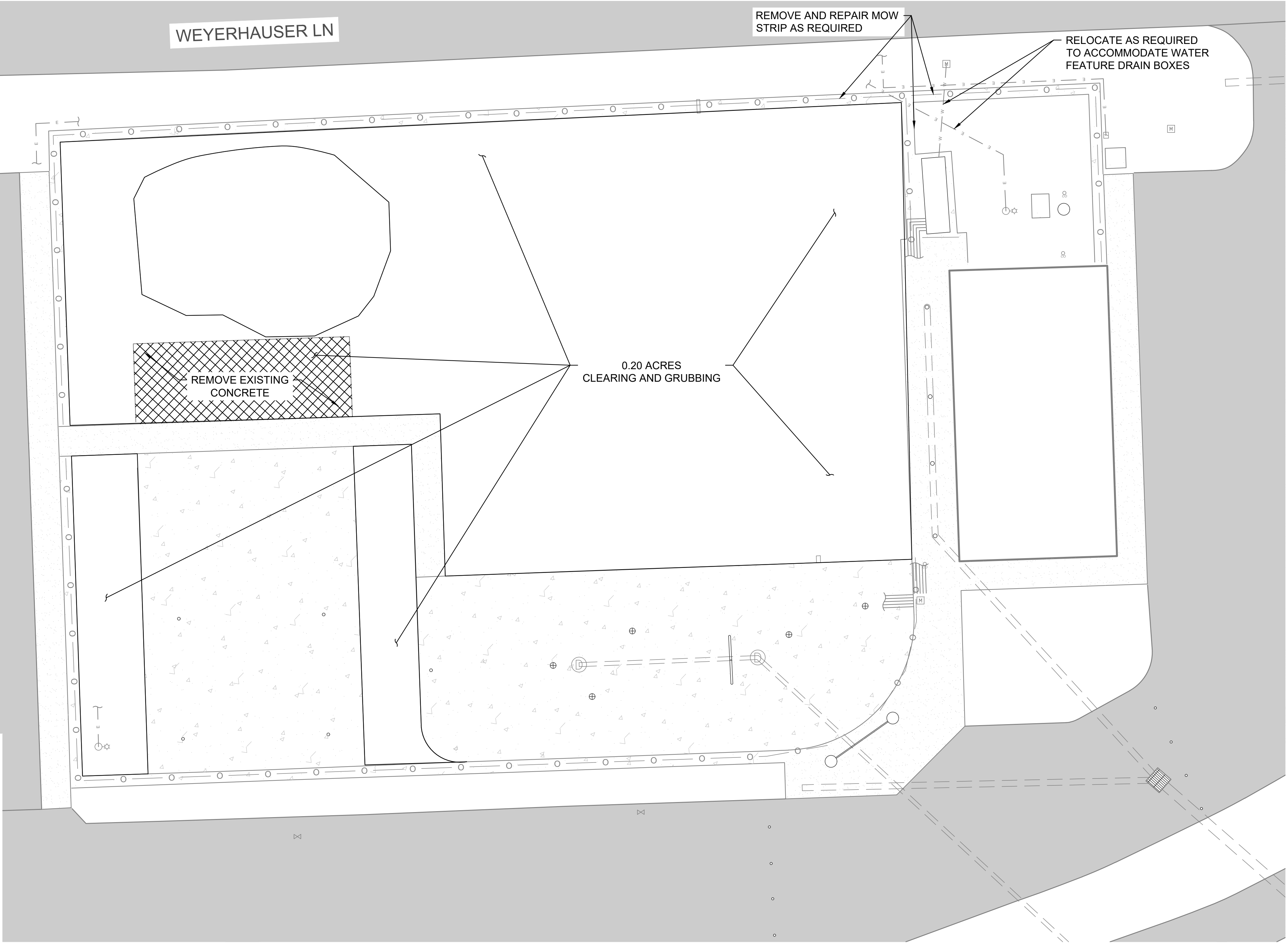
Please Print

Please Sign

Organization of Company Name:

DEMOLITION NOTES:

1. PRIOR TO BID, THE CONTRACTOR SHALL PERFORM A SITE REVIEW AND ACCOUNT FOR ALL DEMOLITION.
2. ITEMS NOT DEMOLISHED BY THE OWNER PRIOR TO THE BID WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DEMOLITION ITEMS SHALL BE CONSIDERED SUBSIDIARY TO THE CLEARING AND GRUBBING BID ITEM.
3. THE CONTRACTOR SHALL DISCONNECT AND/OR COORDINATE DISCONNECTION OF ALL UTILITY CONNECTIONS (ELECTRICAL, GAS, WATER, SANITARY SEWER, CABLE, TELEPHONE) PER THE UTILITY COMPANY REQUIREMENTS.
4. DEMOLITION ITEMS THAT ARE TO BE SALVAGED TO THE OWNER ARE IDENTIFIED IN THE PLANS. SALVAGEABLE ITEMS ARE TO BE DELIVERED TO THE OWNER AT LOCATIONS DIRECTED BY THE OWNER. ALL NON-SALVAGED ITEMS ARE TO BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL CODES AND ENVIRONMENTAL REGULATIONS BY THE CONTRACTOR.
5. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION PERMIT FEES, DISPOSAL FEES, AND OTHER FEES ASSOCIATED WITH ANY DEMOLITION ITEMS.
6. ALL EXISTING UTILITIES WITHIN THE PROPERTY LIMITS TO BE REMOVED AND TERMINATED PER THE UTILITY COMPANY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THIS WORK AND ANY ASSOCIATED FEES.
7. ENVIRONMENTAL CONTAMINATION ENCOUNTERED ON THE SITE SHALL BE REMEDIATED BY THE OWNER.
8. STRUCTURE DEMOLITION SHALL EXTEND TO THE BOTTOM OF SLABS/FOUNDATION.

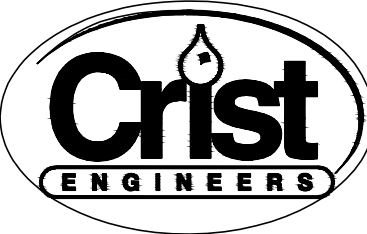


REV. NO.	DATE	DRWN	CHKD	REMARKS



0 1"
1" = 1"
THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED:	BNW
DRAFTED:	WRC
CHECKED:	JDK
DATE:	OCT 2021



CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
205 EXECUTIVE COURT
LITTLE ROCK, ARKANSAS 72205
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

BROKEN BOW, OKLAHOMA
OKA PARK ADDITIONS
PHASE 3
BID SET
ADDENDUM NO. 1
DEMO PLAN

JOB NO.	2146
SHEET NO.	4

1. PIPING AND CONDUIT RUNS ARE SCHEMATIC. CONTRACTOR SHALL UNCOVER EXISTING WATER FEATURE PIPING WHERE NECESSARY AND ROUTE NEW PIPING TO AVOID CONFLICTS. PROVIDE DETAILED SHOP DRAWING OF ALL PIPING RUNS IN ACCORDANCE WITH SECTION 013000.
2. PIPING FROM CONTROL CABINET AND WATER FEATURES TO DRAIN BOXES SHALL HAVE A MINIMUM SLOPE OF 0.75% FOR WINTERIZATION.
3. WATER FEATURE AND DRAIN LINE PIPING SHALL BE SCHEDULE 40 PVC UNLESS APPROVED EQUAL BY THE ENGINEER.
4. WHEN CONNECTING MULTIPLE WATER FEATURES TO ONE FEEDER LINE, THE TEE SHALL BE PLACED AT THE MID POINT BETWEEN EACH WATER FEATURE OR A PIPE BOX SHALL BE INSTALLED TO ENSURE BALANCED FLOW.
5. WIRING FROM THE CONTROLLER TO ACTIVATOR SHALL BE #22 AWG. FIVE (5) CONDUCTORS PER ACTIVATOR UNLESS OTHERWISE APPROVED BY THE MANUFACTURER. ALL WIRING SHALL BE INSTALLED WITHIN A MINIMUM PROPERLY BEDDED 0.75 INCH STAINLESS STEEL CONDUIT FROM ABOVE GRADE TO AT LEAST 24 INCHES BELOW GRADE, TRANSITIONING TO PVC TYPE CONDUIT.
6. ALL CONNECTIONS TO THE CONTROLLER SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.
7. IF CONCRETE SPLASH PAD AND/OR MOW STRIP IS DAMAGED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NEATLY SAW CUT AND REPLACE THE DAMAGED SECTION OF CONCRETE. ALL COSTS RELATED TO CONCRETE SPLASH PAD AND MOW STRIP REPLACEMENT SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF SPLASH PAD, COMPLETE LUMP SUM BID/PAY ITEM.
8. SPLASH PAD EQUIPMENT BY VORTEX AQUATIC STRUCTURES UNLESS PRE-APPROVED EQUAL. CONTACT POWER PLAY. TEL: (918) 728-9978, INFO@POWER-PLAY.NET



LINE	DESCRIPTION	QTY	GPM	LINE SIZE
1	FLOWER No7 (SW, PC) VOR-7559	1	4	1.5"
2	BUTTERFLY No1 (SW, PC) VOR-7792	1	6.5	1.5"
3	BEAR CANNON (SW, PC) VOR-7602	1	5	1.5"
4	FLOWER No8 (SW, PC) VOR-7560	1	12.5	1.5"
5	WOLF CANNON (SW, PC) VOR-7601	1	5	1.5"
6	TEAM SPRAY No1 (EM) VOR-7640	1	17.5	1.5"
7	LEAF No3 (SW, PC) VOR-7672	1	10	1.5"
8	FISH No1 (SW, PC) VOR-7218	1	4	1.5"
9	SNAIL No4 (SW, PC) VOR-7217	1	6.5	1.5"
10	TWINSPLASH (SW, PC) VOR-7242	1	12	1.5"
11	ROOSTER TAIL (EM) VOR-0303	2	18	1.5"
12	SEAWEED No2 (SW, PC) VOR-7780	1	4.5	1.5"
13	SPRAY LOOP (SW, PC) VOR-0519	3	22.5	1.5"
14	SEAWEED No2 (SW, PC) VOR-7780	1	4.5	1.5"
15	DRAIN PIPING 35.00 LF @ 1.00%	-	-	6"
16	DRAIN PIPING 41.10 LF @ 1.00%	-	-	8"
17	DRAIN PIPING 21.86 LF @ 1.01%	-	-	8"

ITEM	DESCRIPTION	QTY	BY
A	BOLLARD ACTIVATOR No3 (SW, PC) VOR-0611	1	VORTEX
B	PLAYSAFE DRAIN No4 VOR-1004.4000	3	VORTEX
C	STAINLESS STEEL/PVC ELECTRICAL CONDUIT FROM CONTROLLER TO ACTIVATOR: 5 CONDUCTORS #22 AWG TO BE PROVIDED AND INSTALLED BY CONTRACTOR.	1	INSTALLER
D	ADD CATTAIL. REPLACE BEAR CANNON WITH CATTAIL. MOVE BEAR CANNON TO PHASE 3 SPLASH PAD.	1	INSTALLER
E	ADD FROG No2. REPLACE WOLF CANNON WITH FROG No2. MOVE WOLF CANNON TO PHASE 3 SPLASH PAD.	1	INSTALLER
F	6' BENCH	4	INSTALLER

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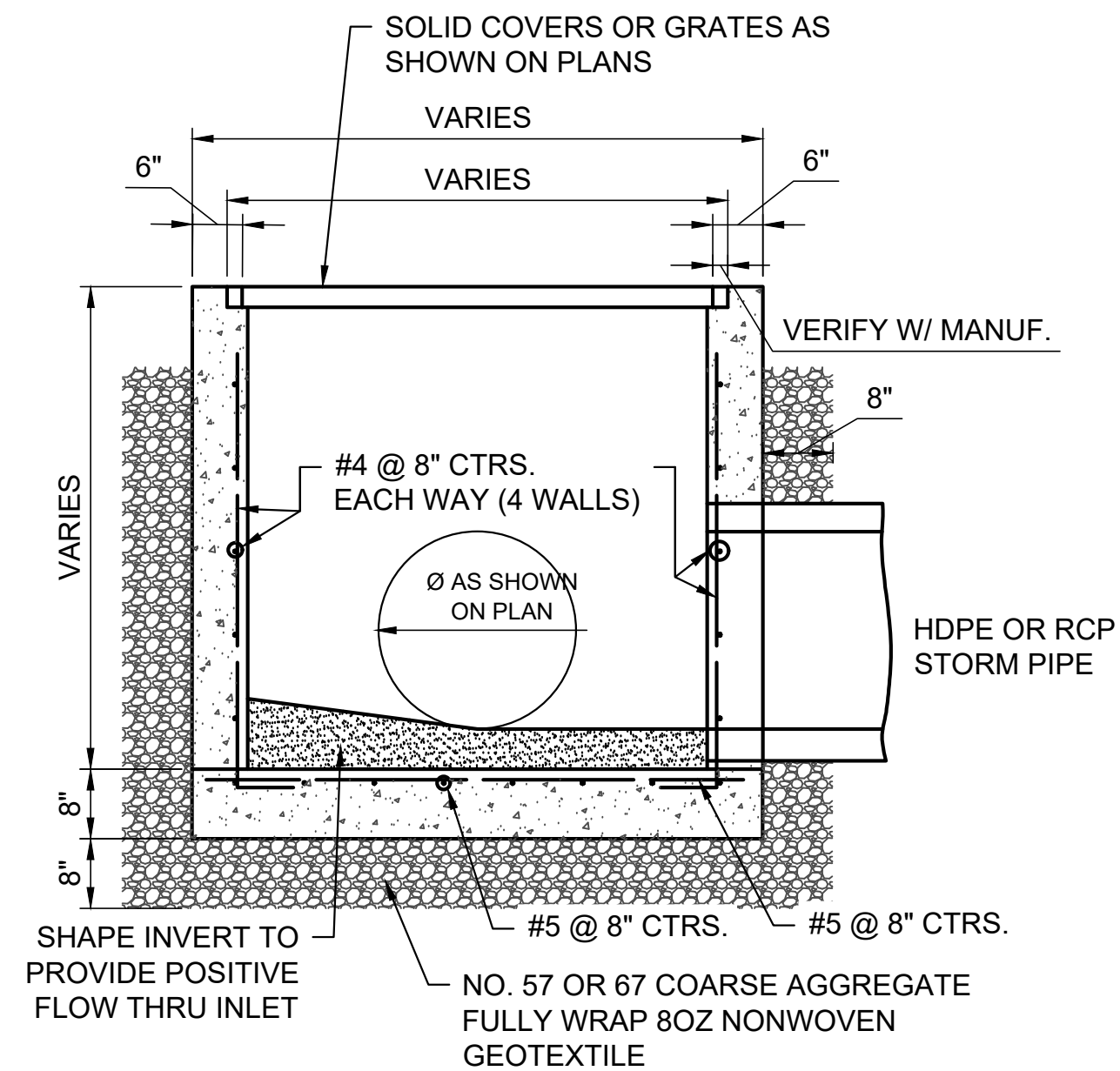
1. USE TYPE 5 LAYING CONDITIONS WHERE MUCK, ROCK, OR OTHER UNSUITABLE SOIL CONDITIONS ARE FOUND, AND ALL HDPE PIPE.
2. MUCK IS SOIL AS DETERMINED BY THE ENGINEER THAT CONTAINS ONE OR ALL OF THE FOLLOWING CHARACTERISTICS: HIGH MOISTURE CONTENT, HIGH PLASTICITY INDEX, LOW POROSITY, HIGH ORGANIC FRACTION.
3. HAUNCH AND BEDDING MATERIAL SHALL BE (SUITABLE SOILS) CATEGORY I AND II, COARSE GRAINED SOILS WITH NO MORE THAN 12% PASSING 200 SIEVE.
4. INSTALLATION SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE PIPE ASSOCIATION.
5. CONTRACTOR SHALL FULLY WRAP EACH JOINT WITH AN EXTERNAL SEALING BAND IN ACCORDANCE WITH ASTM C877 OR A 12" WIDE 8 OZ NONWOVEN GEOTEXTILE.
6. MINIMUM COVER SHALL BE 12" FOR TYPE 2 LAYING CONDITIONS.



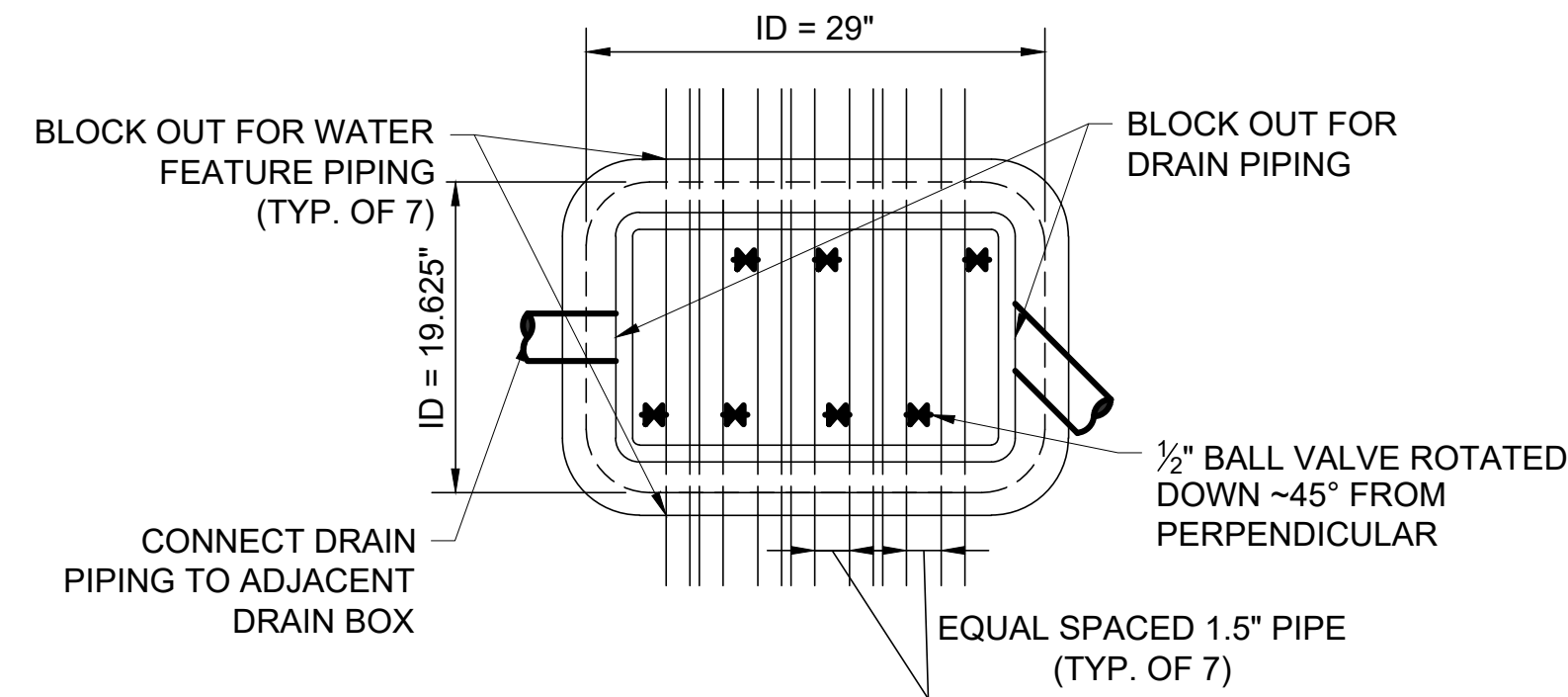
N.T.S.



1. CONTRACTOR SHALL USE 8 OZ NONWOVEN GEOTEXTILE BARRIER BETWEEN TRENCH BEDDING MATERIAL (FULLY WRAPPED) WHERE MUCK OR OTHER UNSUITABLE SOILS ARE FOUND OR AS DIRECTED BY THE ENGINEER.
2. WHEN UNDER CONCRETE OR ASPHALT PAVEMENT, THE MINIMUM COVER FOR HDPE STORM PIPE SHALL BE 12" FOR PIPE DIAMETERS UP TO 48" AND 24" FOR 54" AND 60" DIAMETER PIPE.
3. WHEN UNDER GRAVEL PAVEMENT, THE MINIMUM COVER FOR HDPE PIPE SHALL BE 18" FOR PIPE DIAMETERS UP TO 48" AND 30" FOR 54" AND 60" DIAMETER PIPE.



N.T.S.



CARSON 1324 HDPE,
 PEDESTRIAN RATED, ASTM
 C857 OR APPROVED EQUAL

0.75% (MIN.) SLOPE
 TO VALVE

HDPE, FLUSH MOUNTED,
 BOLT DOWN, STANDARD
 THREAD GREEN COVER

WATER FEATURE
 PIPING

EL. ~451.05±

1.5" PIPE
 EL. ~450.50±

EL. ~450.05

6"

6"

2"

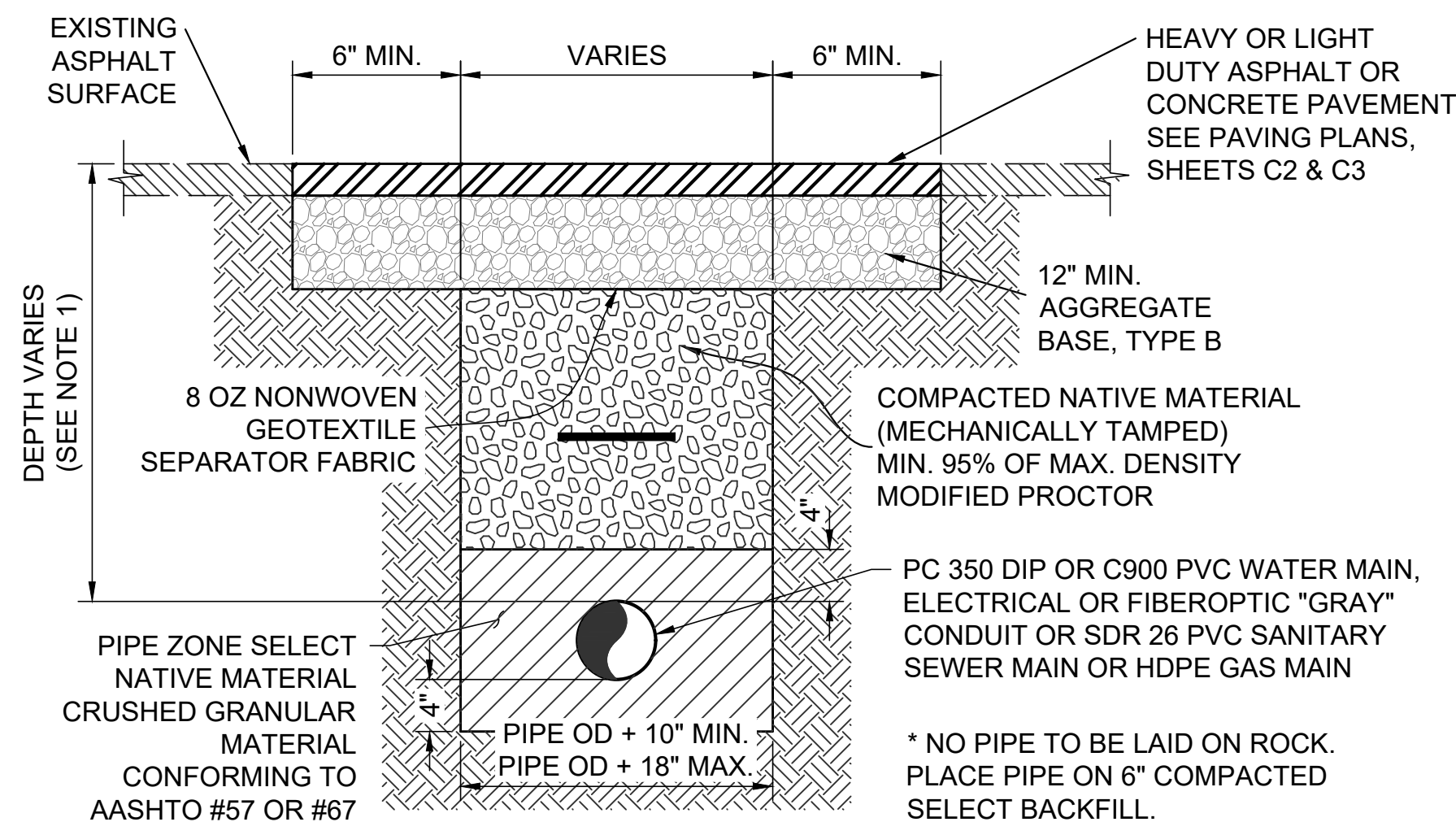
18"

1/2" BALL VALVE ROTATED
 DOWN ~45° FROM
 PERPENDICULAR

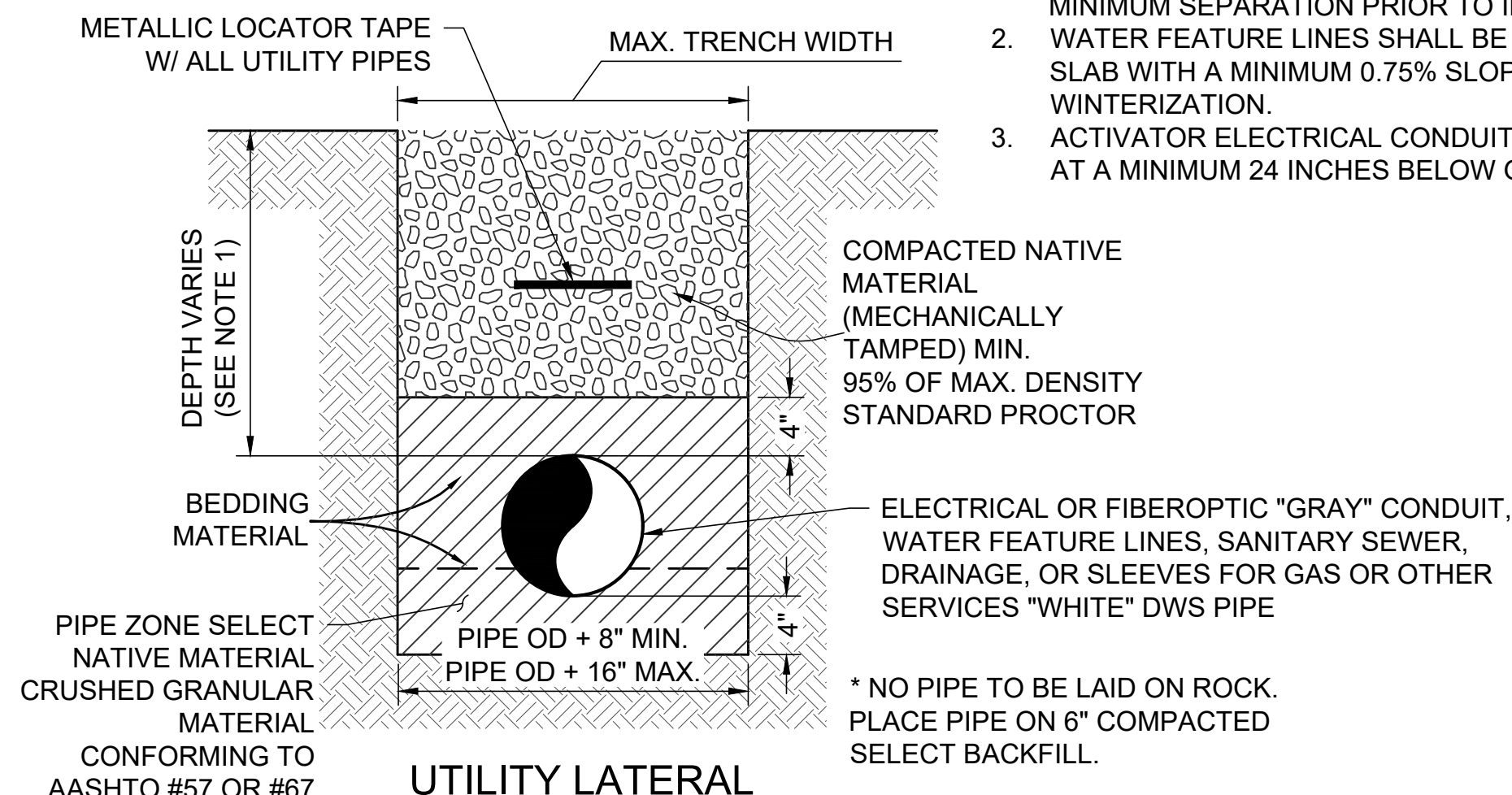
1/2" BALL VALVE ROTATED
 DOWN ~45° FROM
 PERPENDICULAR (BEHIND)

AASHTO NO. 57 OR 67
 COARSE AGGREGATE
 FULLY WRAPPED IN 8 OZ
 NONWOVEN GEOTEXTILE

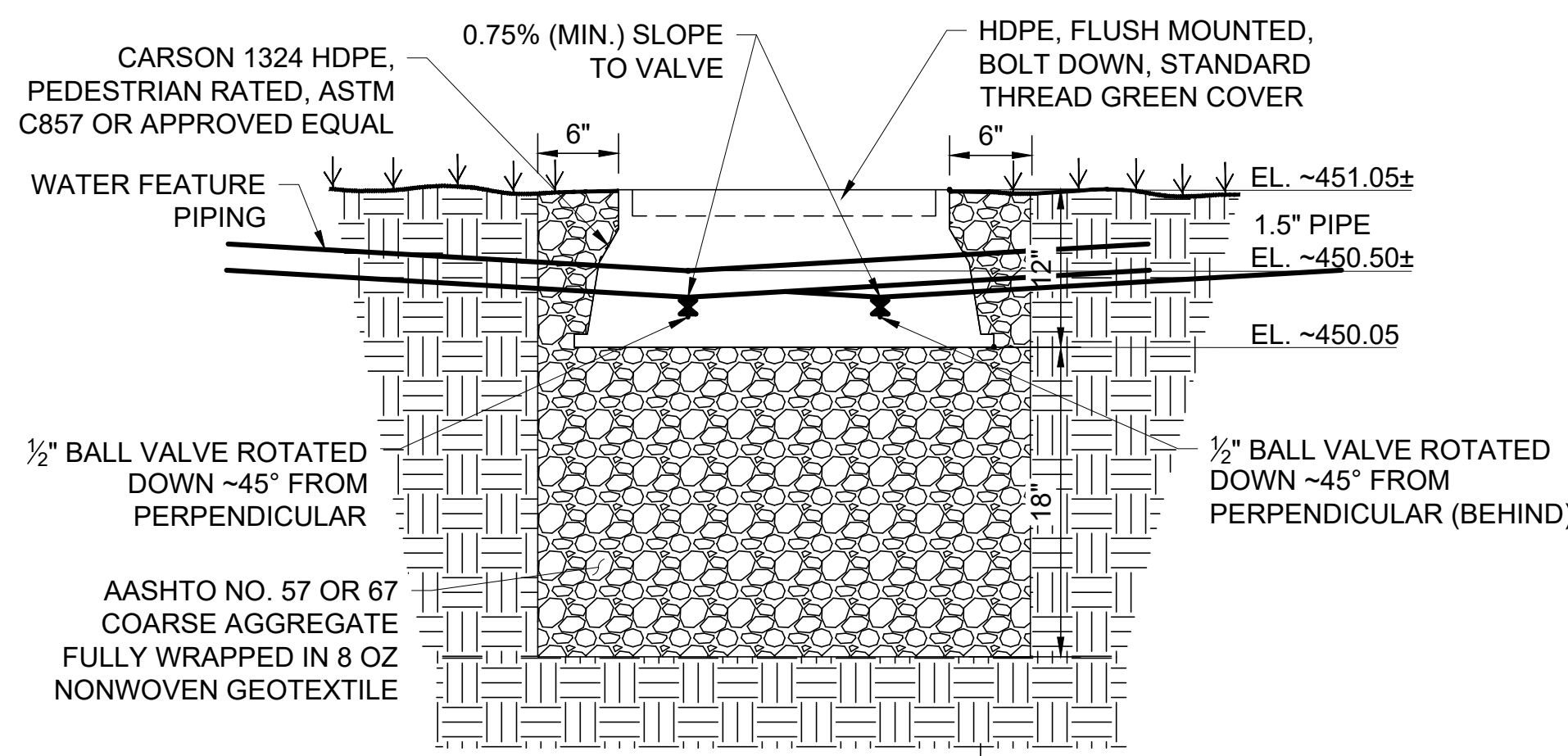
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