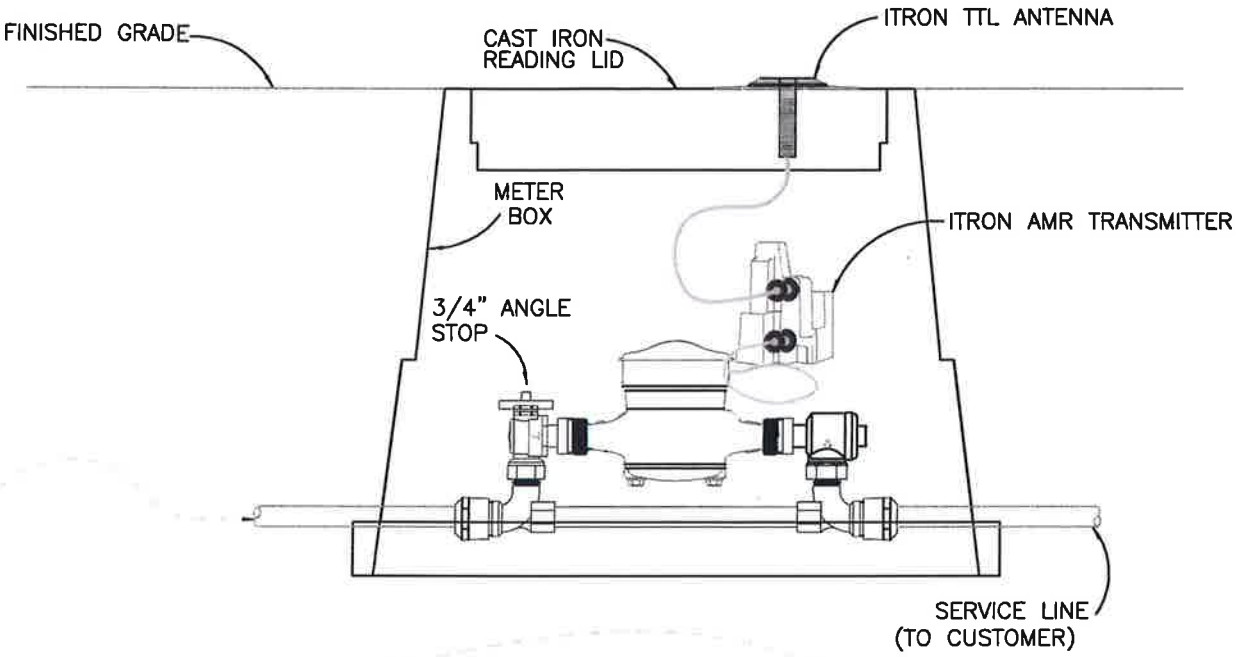
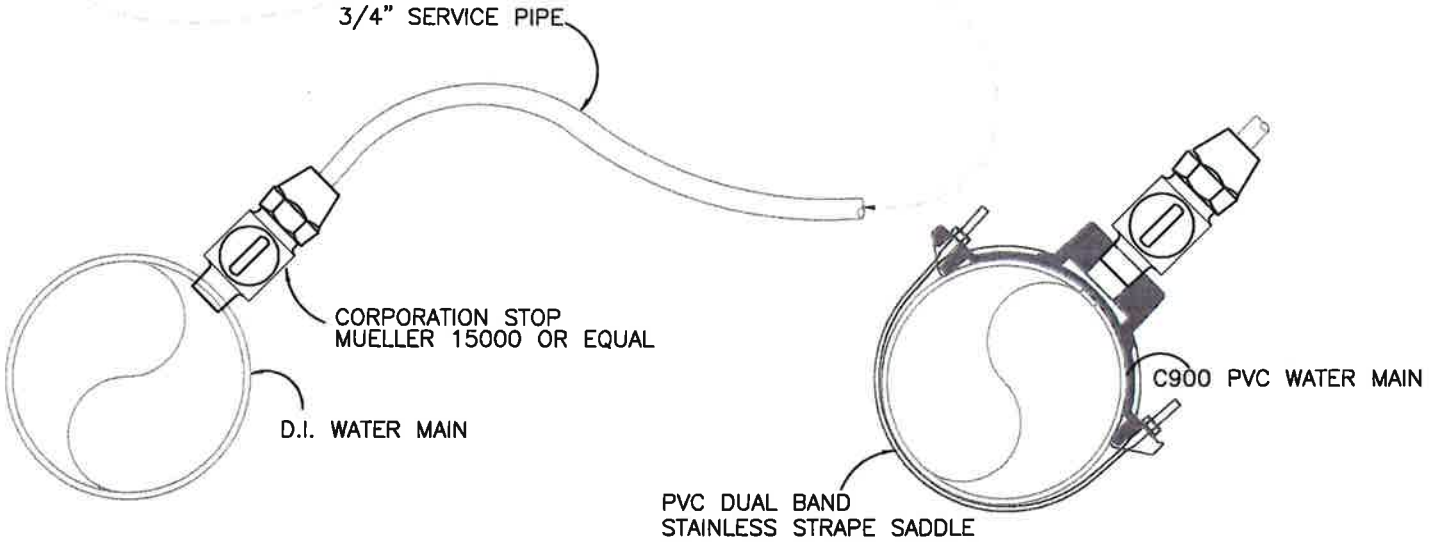
Appendix C
Water & Sanitary Sewer Construction Specifications
STANDARD DRAWINGS

DRAWING NO.	DESCRIPTION
WATER SERVICE ASSEMBLY	Water Service Assembly; 5/8" & ¾"
GV-VB1	Gate Valve & Valve Box
BFV-VB1	16" 7 Greater; Butterfly Valve & Valve Manhole
ARV-1	Air Release Valve Assembly
BHA-1	Blowoff Hydrant Assembly
FHA-1	Fire Hydrant Assembly
FHA-1A	Fire Hydrant Working (Clear) Area
FHA-2	2'x3' Off-Set Fire Hydrant Assembly
PIPE-W1 to W3	Water Main Laying Conditions
TBD-1	Thrust Blocking Details
TBD-2	Thrust Blocking Dimensions
SERVICE-1,2,3	Typical Combined Commercial Service & Fire Line
FIRELINE 1	Typical Fire Line Service
WATER DEMAND	Water Demand Chart
MH-PRECAST	Standard Precast Concrete Manhole
	Shallow Precast Concrete Manhole
MH-FRAME & COVER	Manhole Frame & Cover
MH-WATERTIGHT	Water Tight Manhole Frame & Cover
MH-D1	Standard Precast Concrete Drop Manhole
MH-D2	Optional (=/> 8" Pipe) Precast Concrete Inside Drop Manhole
MH-D3	Optional Precast Concrete Manhole with Outside Drop
MH-D4	Optional (6" Pipe) Precast Concrete Inside Drop Manhole
MH-INT1	Existing Manhole Interceptor Connection
MH-INT2	Existing Manhole Interceptor Connection – Force Main
MH-DO-1	Interceptor Drop Over Manhole – Large Diameter Pipe
MH-DO-2	Interceptor Drop Over Manhole – Small Diameter Pipe
MH-DO2	Interceptor Manhole – Branch Line Metering Station
PIPE-S1 to S3	Sanitary sewer Pipe Laying Conditions
SANITARY SEWER SERVICE CONNECTION	
SANITARY SEWER SERVICE CLEANOUT (OPTIONAL FOR PRIVATE INSTALLATION)	
LPSS-SVC	Low Pressure Sanitary Service – Generic Service
TSF	Erosion Control – Silt Fence
	Typical Chain Link Fence Details 1-4

NOTE:
METERS FURNISHED WITH PRESSURE REDUCING VALVES SHALL BE INSTALLED IN GODDARD NO. 37H METER BOXES W/EXTENSION OR APPROVED EQUAL.





WATER METER INSTALLATION

CITY OF ALCOA		REVISED: AUG–2015	WATER SERVICE ASSEMBLY 5/8" x 3/4" METER	DRAWING NO. W–SERVICE ASSEMBLY

NOTES:

(a) Gate valves shall be mechanical joint, resilient–seat type, iron body, non–rising stem, "O"–ring, stem seal type, 2–inch square operating nut, open counter–clockwise.

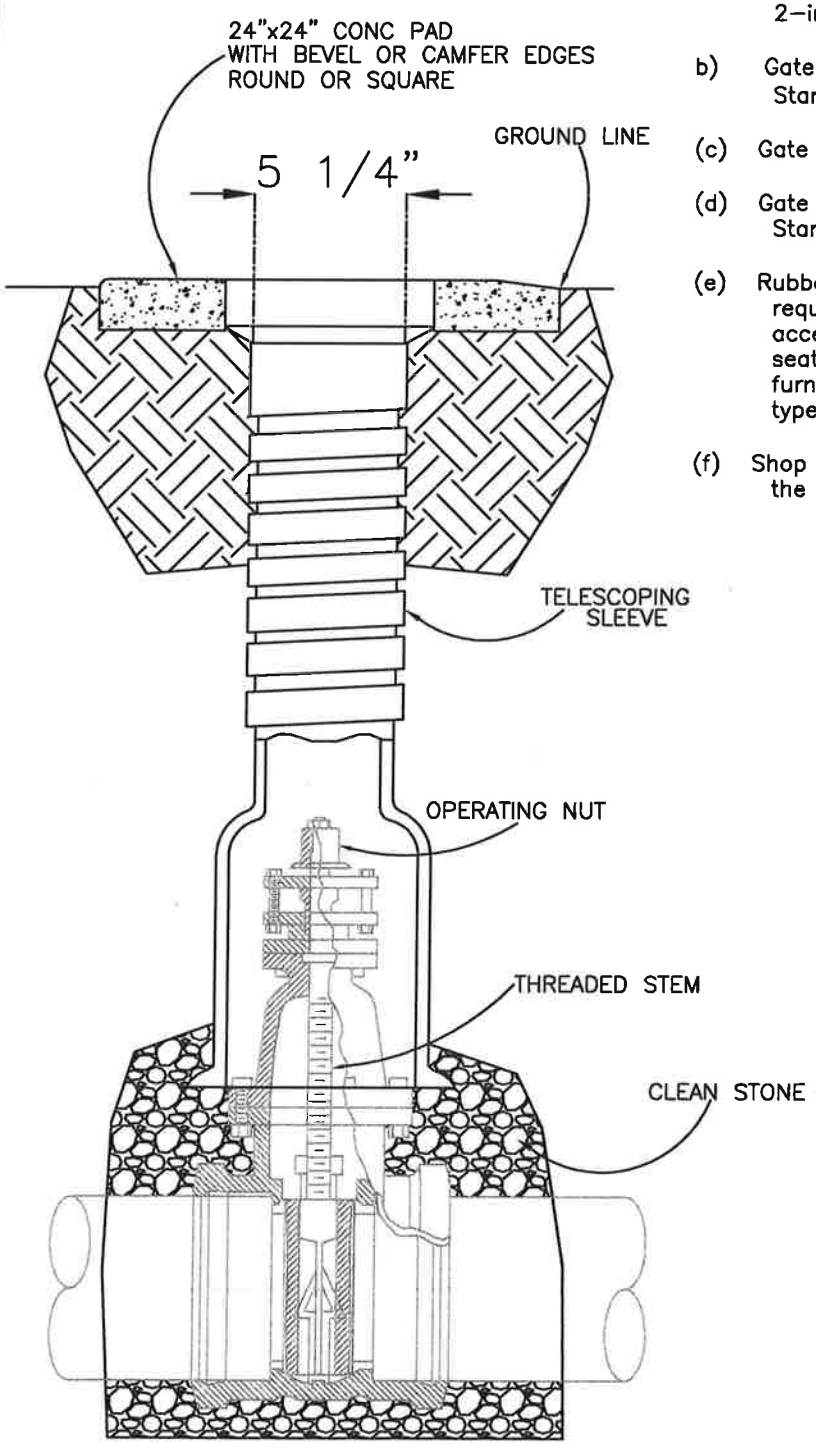
b) Gate valves shall meet the latest requirements of AWWA Standard C–509 OR C–515 (Compact).

(c) Gate valve pressure ratings shall be 200 psig.

(d) Gate valves meeting the latest requirement of AWWA Standard C–509.

(e) Rubber–seated butterfly valves meeting the latest requirements of AWWA Standard C–504 will be acceptable for use on 8–inch or greater pipe. Rubber–seated butterfly valves shall be open counterclockwise, furnished with a 2–inch operating nut, mechanical joint type, Class 150–B.

(f) Shop drawings of butterfly valves must be submitted to the Alcoa Public Works Department for approval.



GATE VALVE SECTION
(CLOSED POSITION)

STANDARD
VALVE BOX LID

LOCKING
VALVE BOX LID
(USE WITH FIRE LINES AND PRESSURE ZONE SEPARATION VALVES)

CITY OF ALCOA		REVISED:	GATE VALVE & VALVE BOX	DRAWING NO.
		JUL 2015		GV–VB1

NOTES:

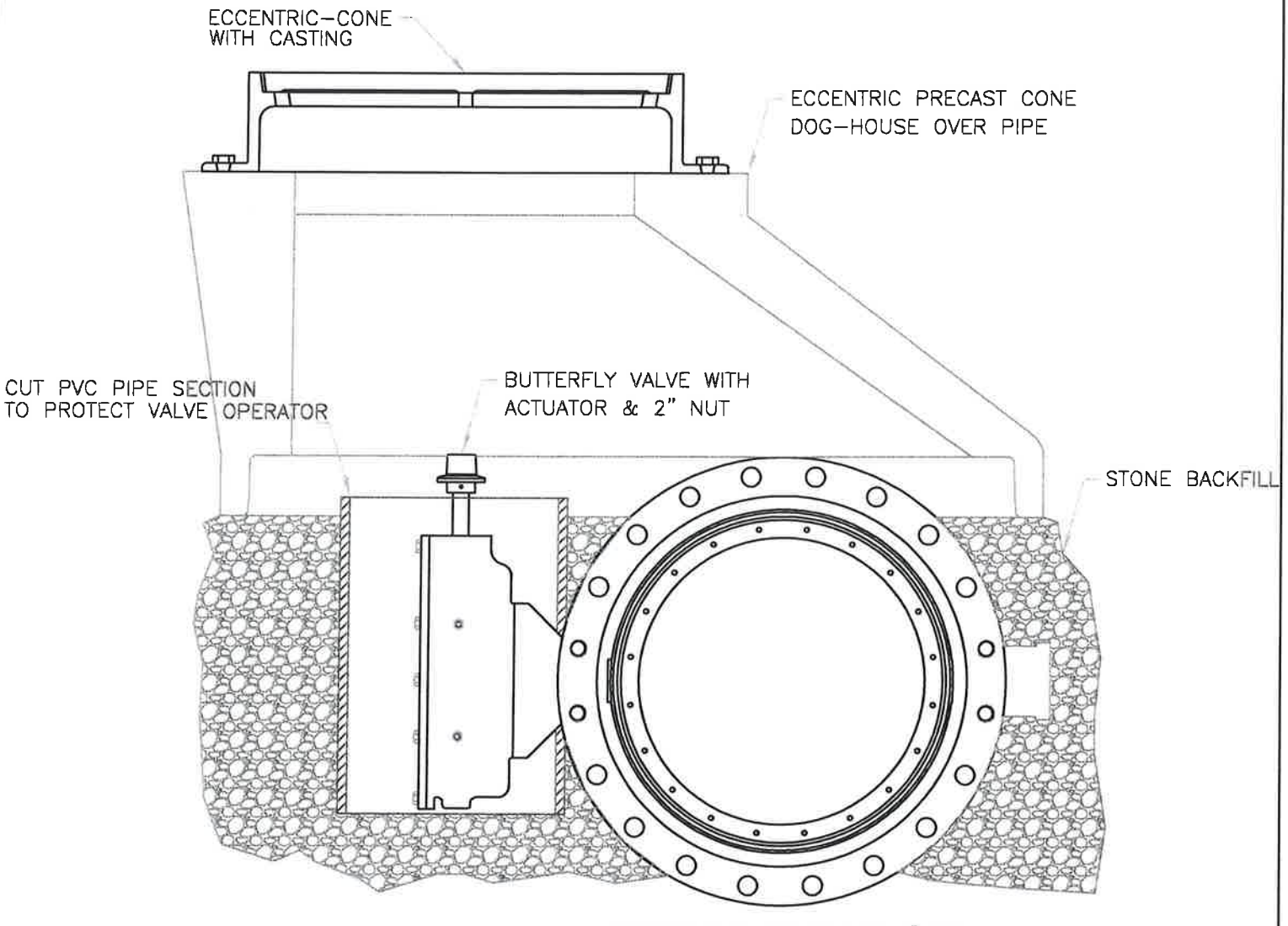
(a) Butterfly valves shall be mechanical joint, rubber–seated type, iron body, non–rising stem, 2–inch square operating nut, open counter–clockwise.

(b) Butterfly valves shall meet the latest requirements of ANSI/ AWWA Standard C–504, Class 150B.

(c) Butterfly valve pressure ratings shall be 150 psig.

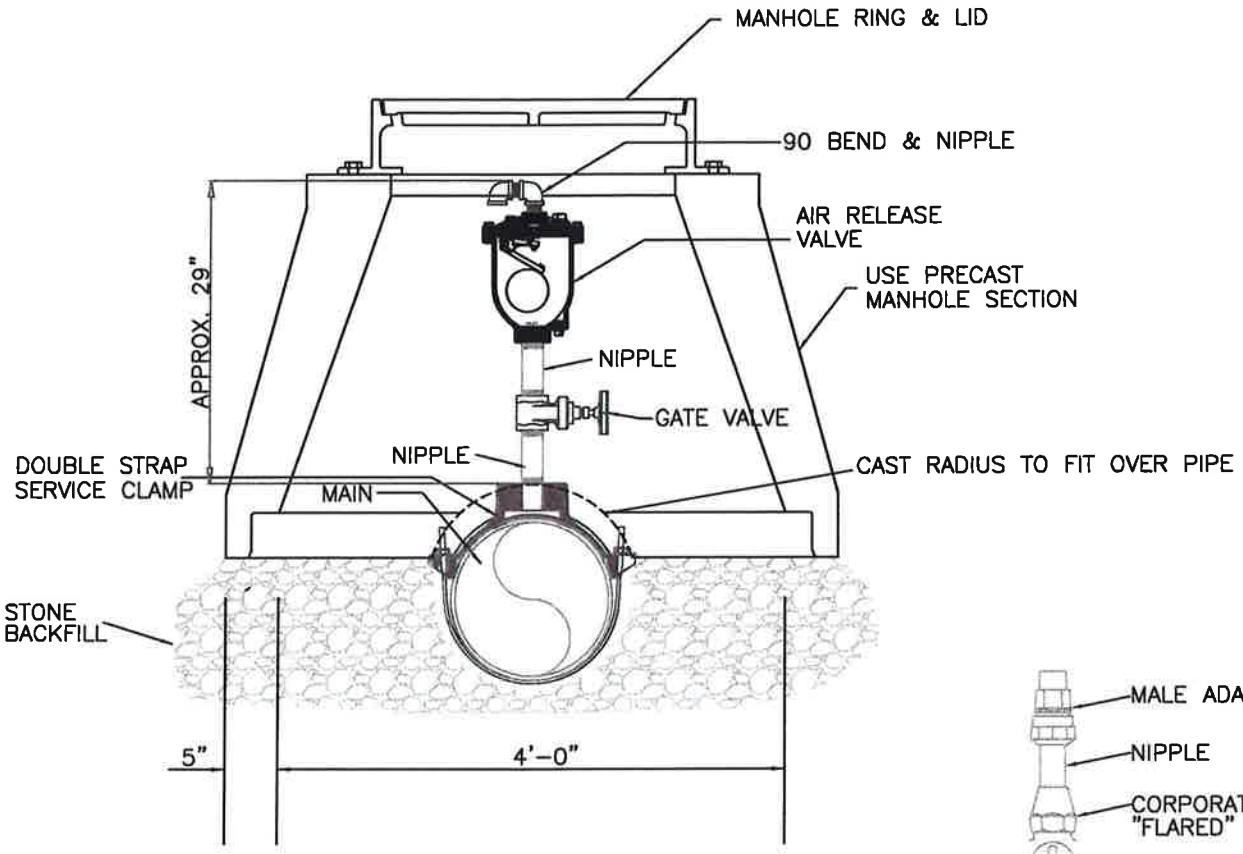
(d) Rubber–seated butterfly valves shall be used on 12–inch or greater pipe. Rubber–seated butterfly valves shall be open counterclockwise, furnished with a 2–inch operating nut, mechanical joint type, Class 150–B.

(e) Shop drawings of butterfly valves must be submitted to the Alcoa Public Works & Engineering Department for approval.

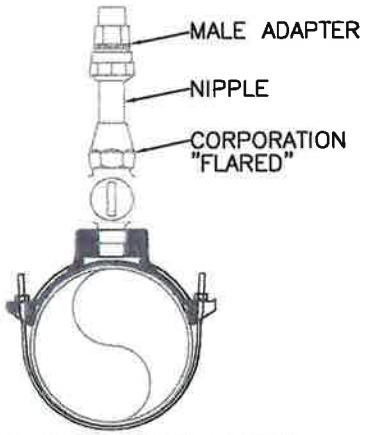


BUTTERFLY VALVE WITH GEAR AND 2" NUT

CITY OF ALCOA		REVISED:	BUTTERFLY VALVE & VALVE MANHOLE	DRAWING NO.
		JAN–2012		BFV–VB1



AIR RELEASE VALVE ASSEMBLY
(DRY TAP)
NTS

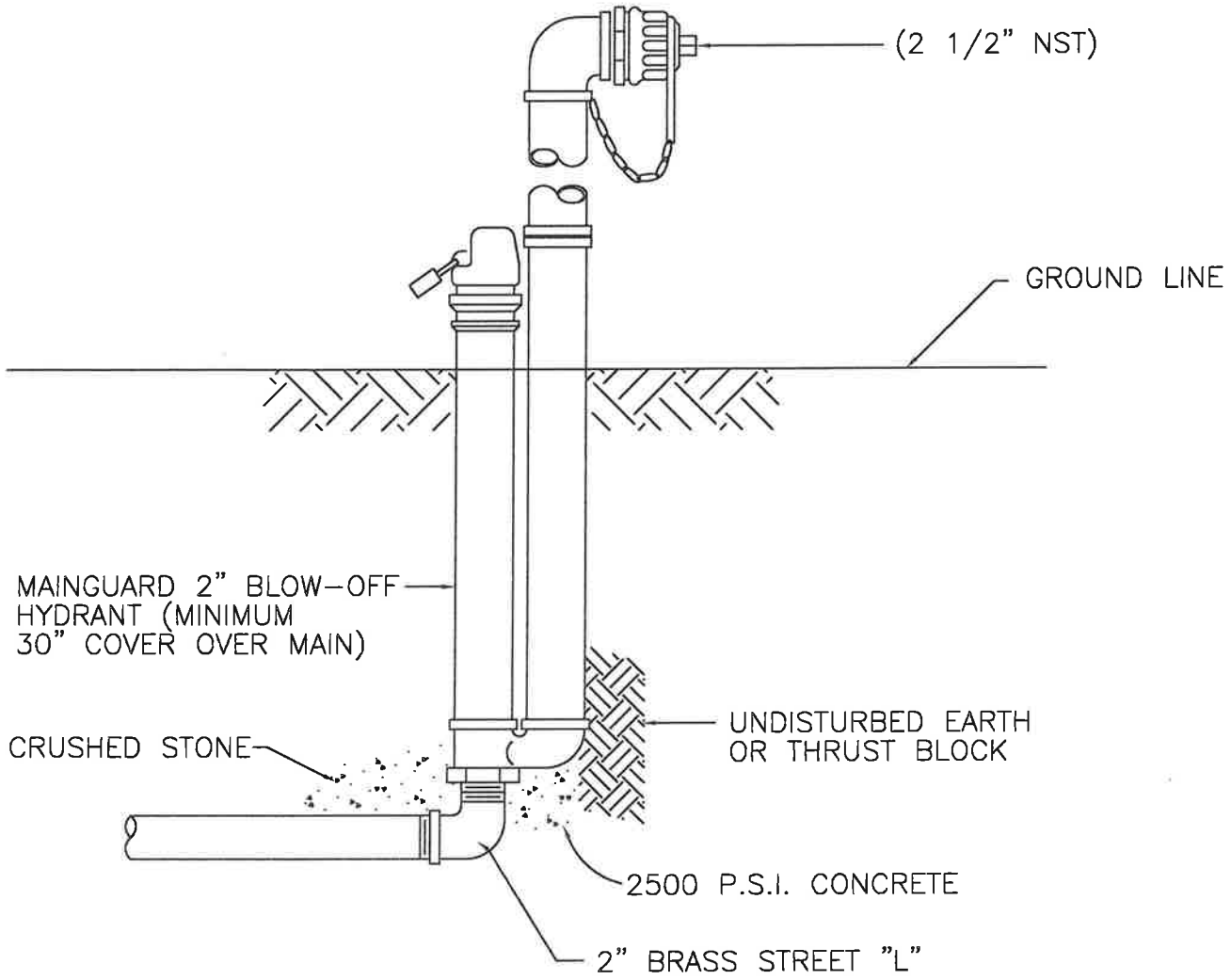


A.R.V. TAP ASSEMBLY
(WET TAP)
NTS

NOTES:

1. Manhole cover frames and lids shall be of gray cast iron meeting the latest requirements of ASTM Standard A48, Class 30, (30,000 psi); painting of the frame and lid is not required.
2. Manhole frames and covers shall be round, with the cover/frame interface machine ground horizontally, and should weigh not less than 375 pounds.
3. Manhole covers shall be Neenah R-1642; East Jordan Iron Works. No. V-1355; or approved equal.
4. 1" VALVE REQ'D ON 8" AND SMALLER WATER MAIN, AND 2" VALVE REQ'D ON 10" AND LARGER WATER MAIN.
4. See CITY OF ALCOA WASTEWATER COLLECTION – CONSTRUCTION SPECIFICATIONS for more information on manhole requirments.

CITY OF ALCOA	REVISED:	AIR RELEASE VALVE ASSEMBLY	DRAWING NO.
	DEC 2014		ARV-1



(EXTENDING BEYOND DITCH ON STATE HIGHWAYS)

NOTES:

1. Post Hydrants shall be non-freezing, self draining type with a 30" bury. These hydrants will be furnished with a 2" FIP inlet, a non-turning operating rod, and shall open to the left.

2. All of the working parts shall be of bronze-to-bronze design, and be servicable from above grade with no digging.

3. The outlet shall also be bronze and be 2-1/2" NST.

4. Hydrants shall be lockable to prevent unauthorized use as manufactured by Kupferle Foundry Co., St. Louis, MO., or approved equal.

CITY OF ALCOA	REVISED:	BLOWOFF HYDRANT ASSEMBLY	DRAWING NO.
	JAN 2006		BHA-1

NOTES:

(a) Hydrant shall conform to the latest requirements of AWWA Standard C-502.

(b) Hydrant shall be equipped with two 2-1/2-inch hose outlet nozzles and one 4-1/2-inch pumper outlet nozzle.

(c) Nozzle thread shall conform with NFPA No. 194 for National Standard Fire Hose Coupling Screw Threads.

(d) Size of hydrant main valve shall be 5-1/4-inch nominal diameter.

(e) Size of hydrant inlet shall be 6-inch MJ with one set of MJ accessories.

(f) Operating nut shall open counterclockwise.

(g) The operating nut shall be pentagonal in shape. The nut shall not be less than one-inch in height, measuring 1-1/2-inches from point to flat at the base of the nut and 1-7/16-inches at the top.

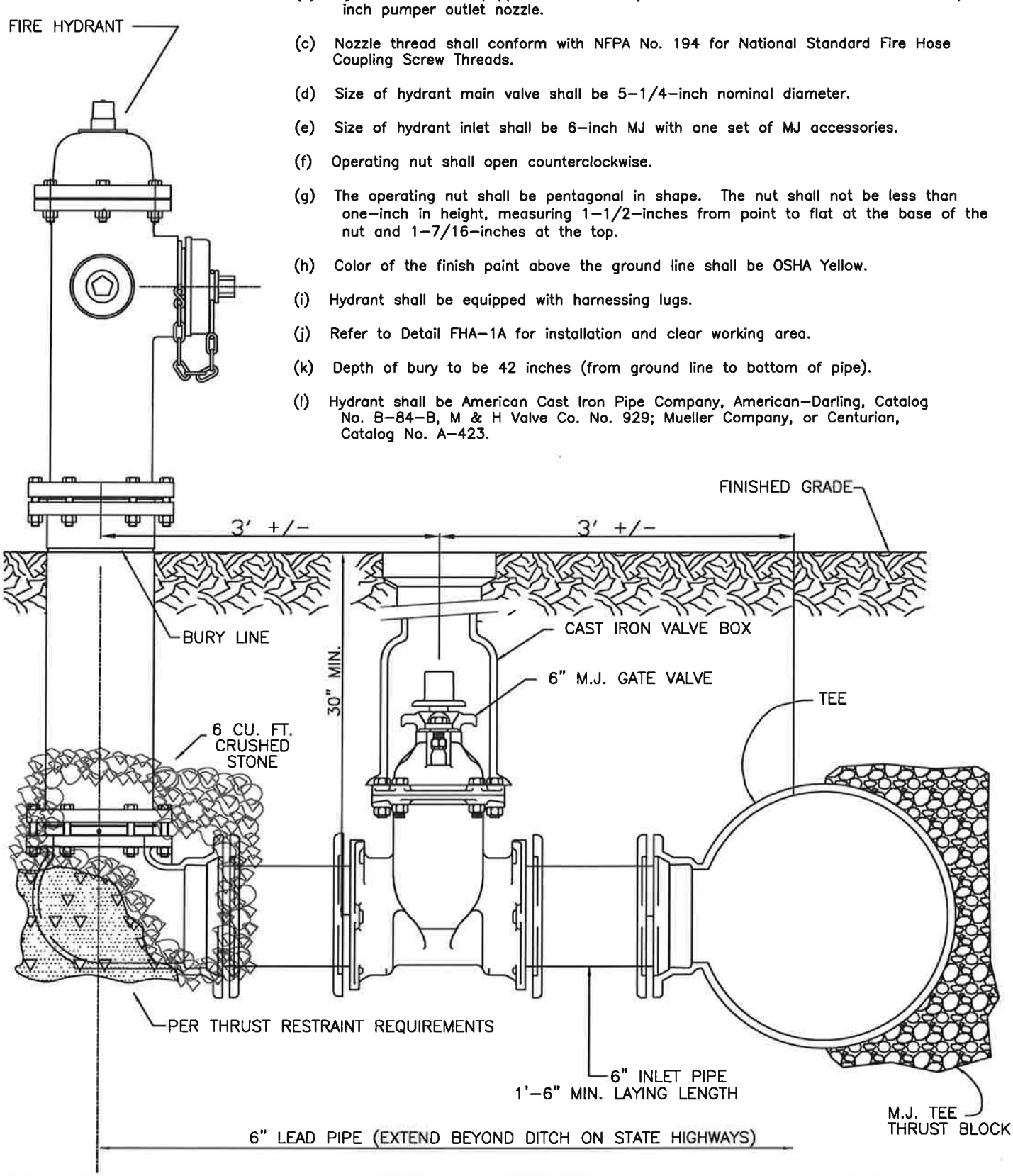
(h) Color of the finish paint above the ground line shall be OSHA Yellow.

(i) Hydrant shall be equipped with harnessing lugs.

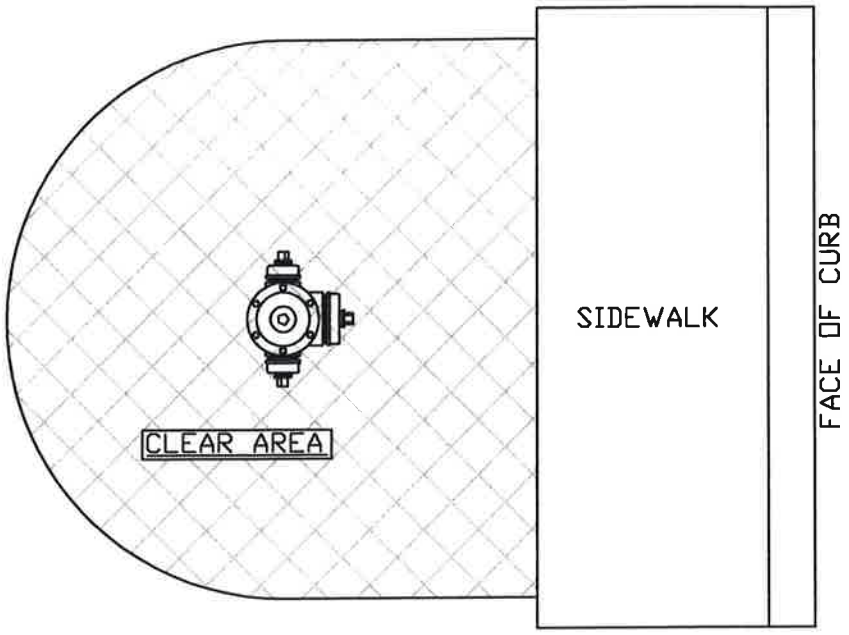
(j) Refer to Detail FHA-1A for installation and clear working area.

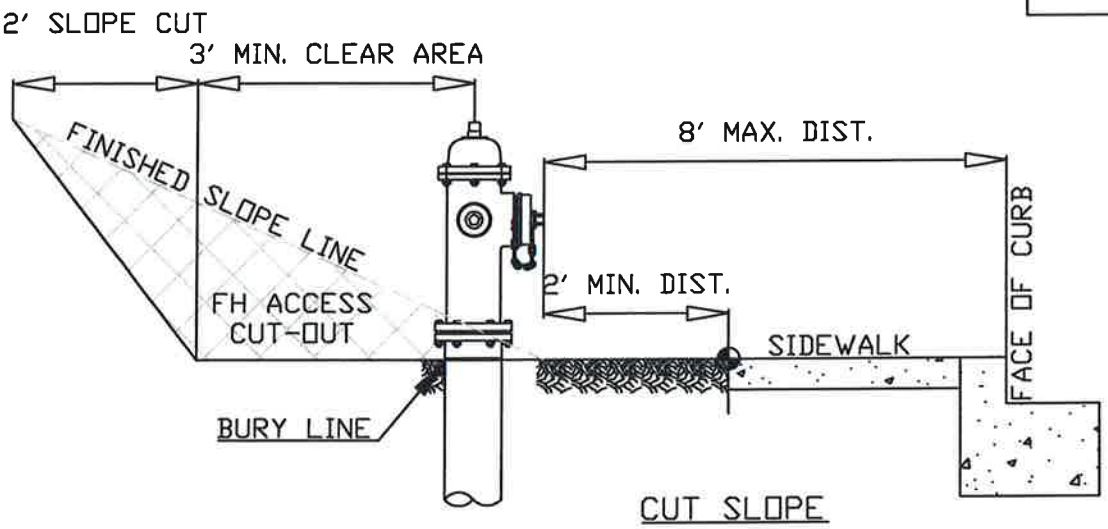
(k) Depth of bury to be 42 inches (from ground line to bottom of pipe).

(l) Hydrant shall be American Cast Iron Pipe Company, American-Darling, Catalog No. B-84-B, M & H Valve Co. No. 929; Mueller Company, or Centurion, Catalog No. A-423.

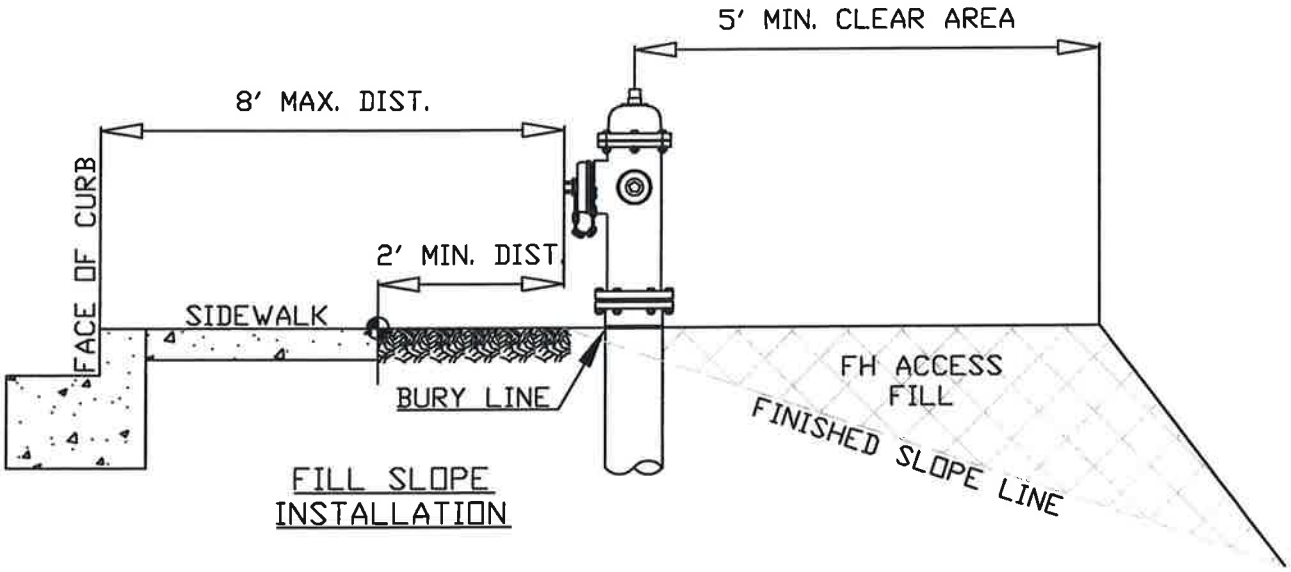


CITY OF ALCOA	REVISED: JAN 2014	FIRE HYDRANT ASSEMBLY	DRAWING NO. FHA-1



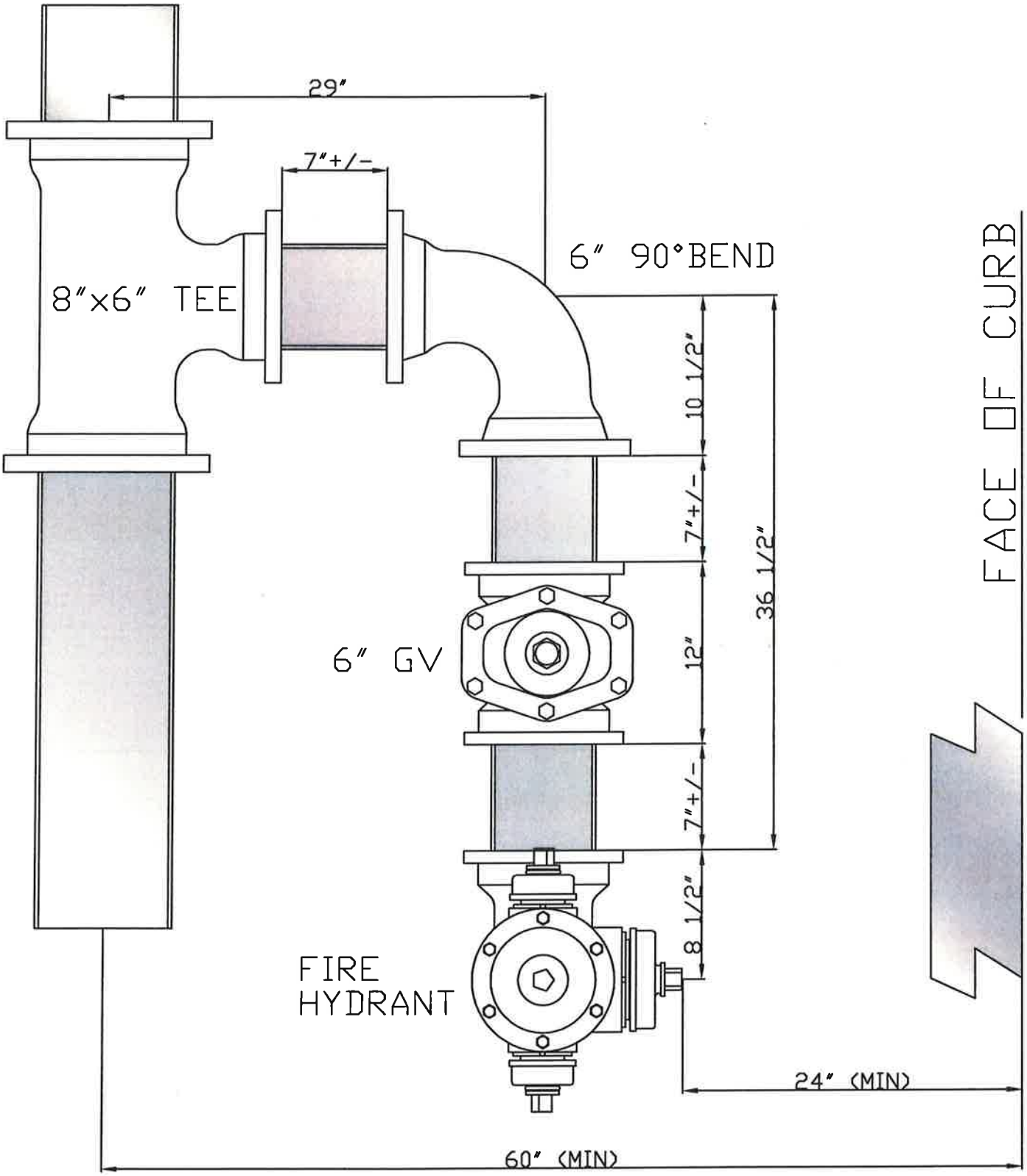


CUT SLOPE INSTALLATION

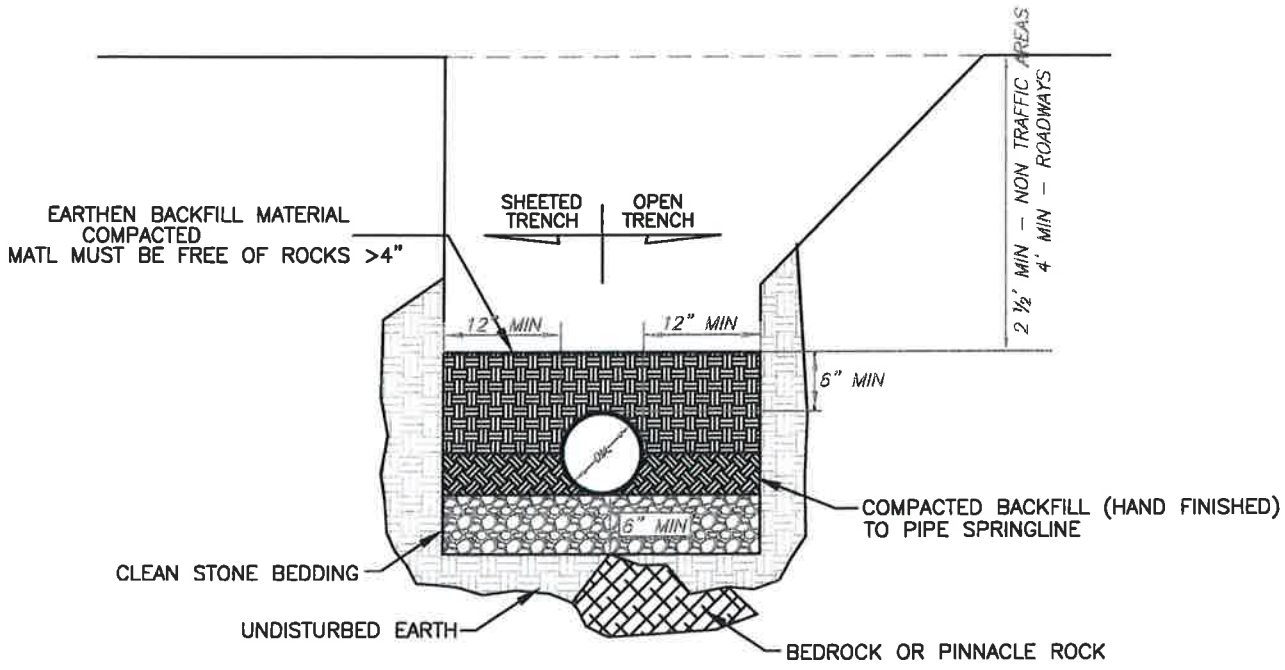


FILL SLOPE INSTALLATION

CITY OF ALCOA	REVISED: JAN 2014	FIRE HYDRANT WORKING AREA	DRAWING NO. FHA-1A

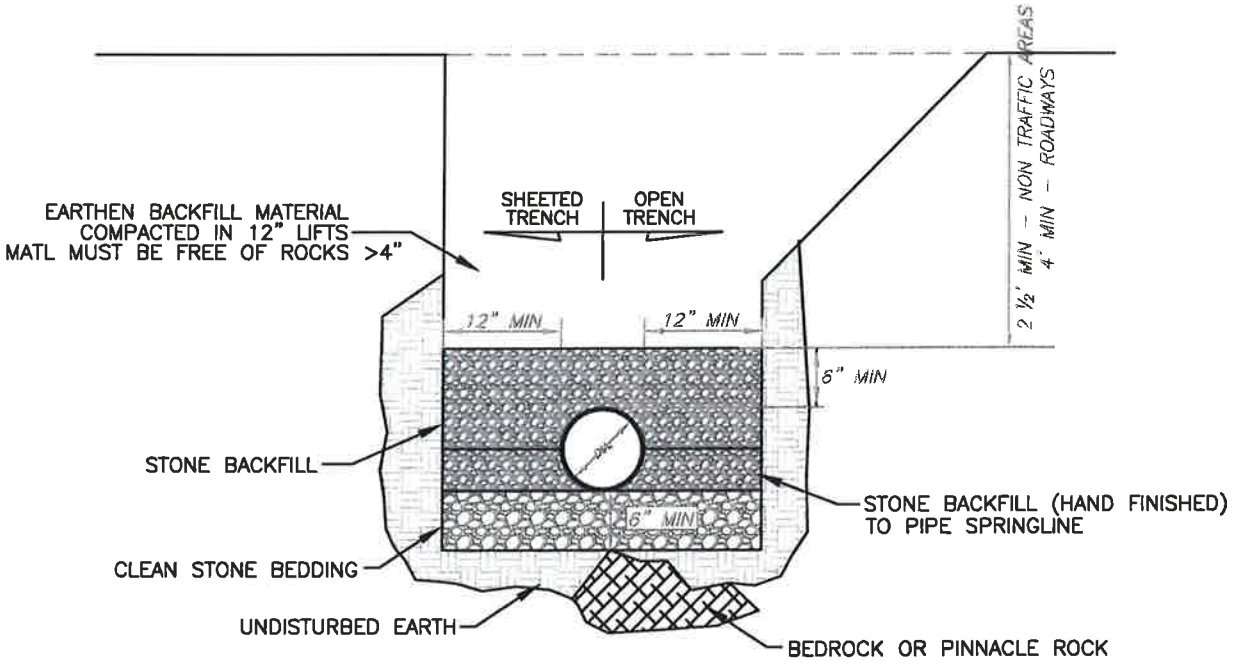


CITY OF ALCOA	REVISED: JUL 2014	2X3 OFF SET FIRE HYDRANT ASSEMBLY	DRAWING NO. FHA-2



STANDARD EXCAVATION
DUCTILE IRON PIPE – 24" OR LESS

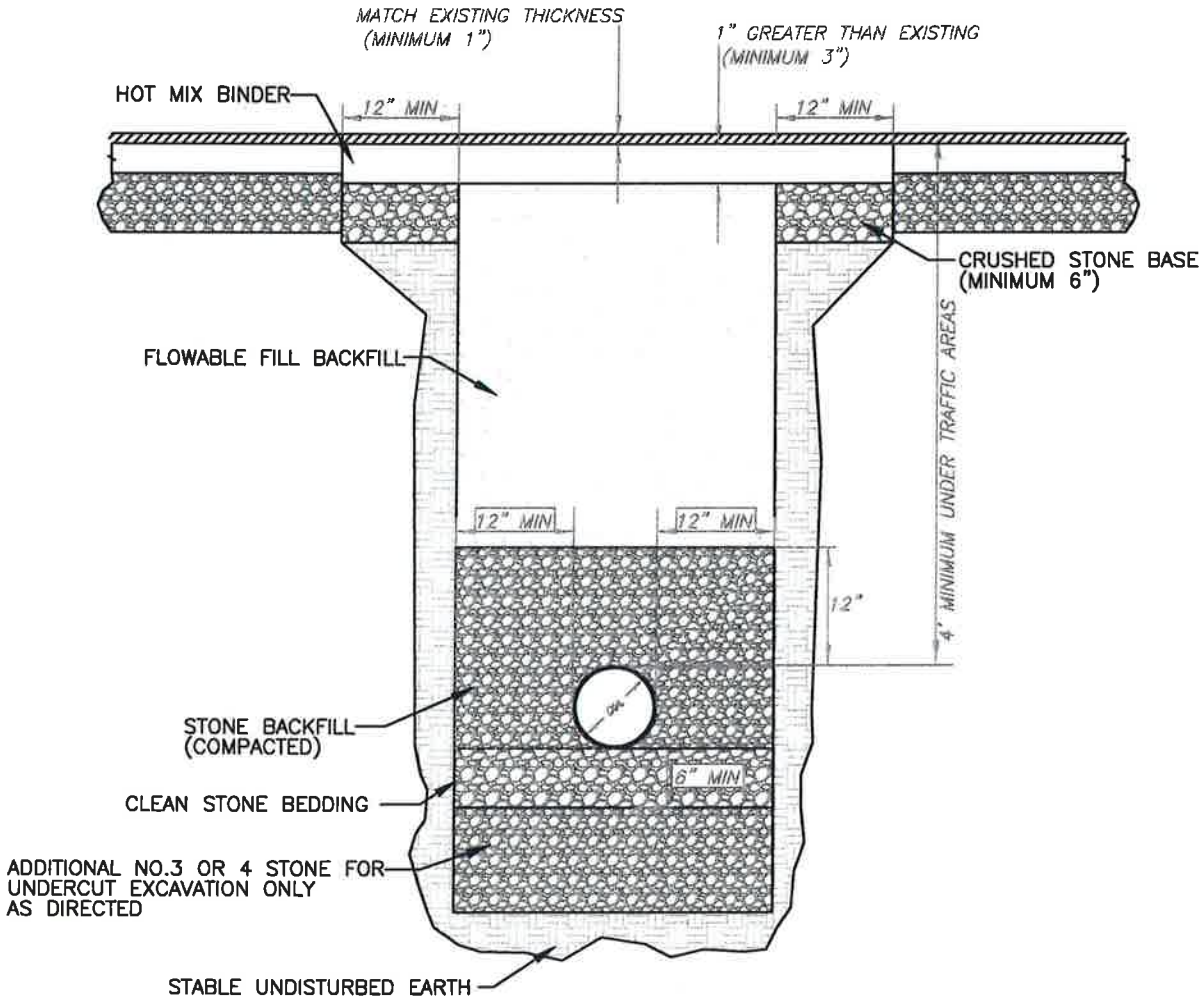
REF: SECTIONS 1.1.1, 1.1.2, 1.1.3 & 1.3.4 thru 1.3.6 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS



STANDARD EXCAVATION
PVC PIPE – 24" OR LESS

REF: SECTIONS 1.1.1, 1.1.2, 1.1.3 & 1.3.4 thru 1.3.6 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

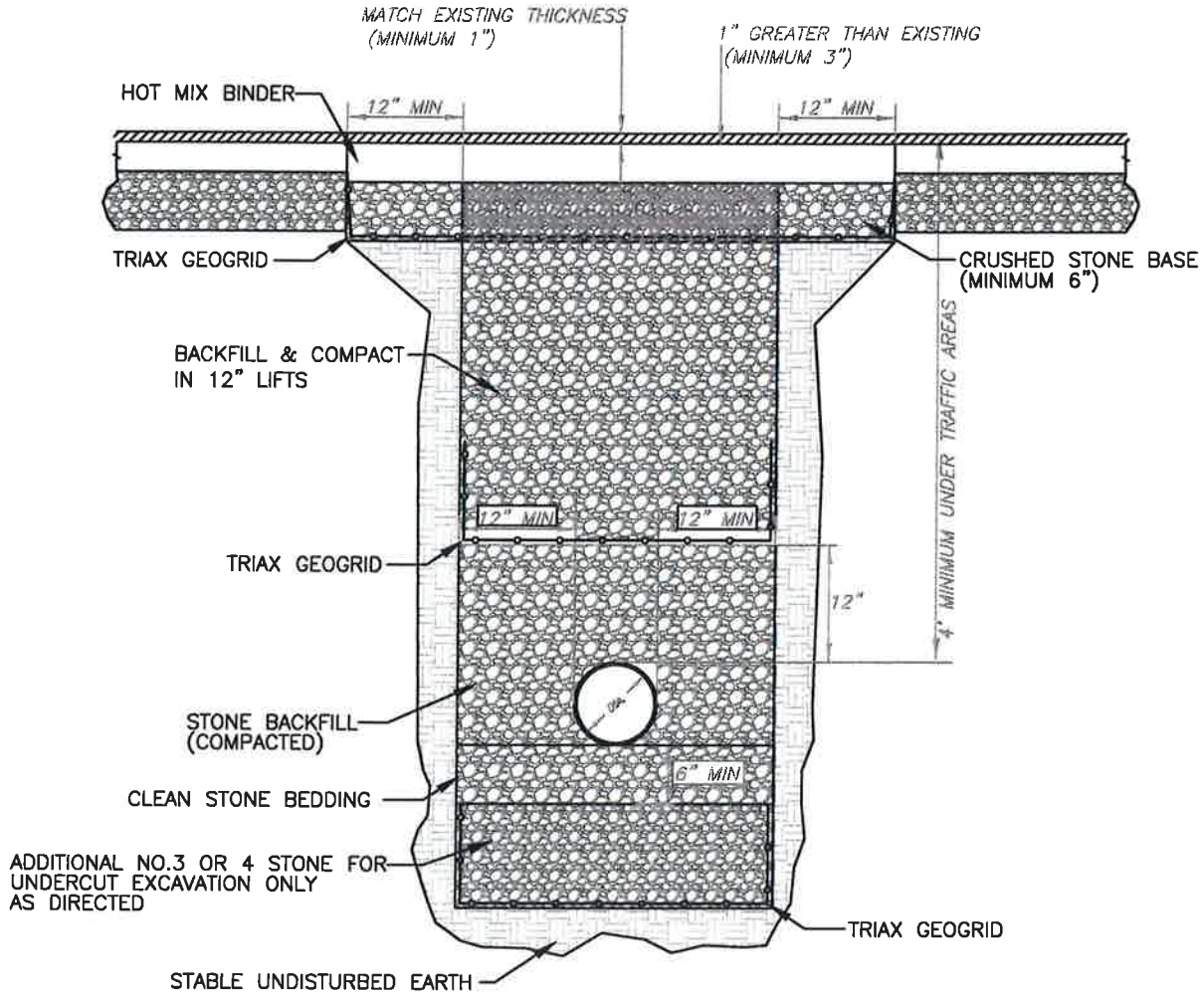
CITY OF ALCOA	REVISED: AUG–2015	WATER MAIN PIPE LAYING CONDITIONS	DRAWING NO. PIPE – W1



STANDARD STREET CUT EXCAVATION
WITH UNDERCUT

REF: SECTIONS 1.3.3 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

CITY OF ALCOA	REVISED:	WATER MAIN PIPE LAYING CONDITIONS STREET CUT	DRAWING NO.
	25MAR2013		PIPE – W2

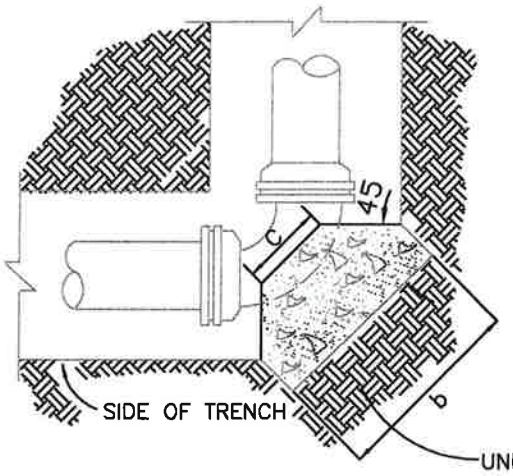


STREET CUT EXCAVATION WITH STONE BACKFILL
WITH UNDERCUT

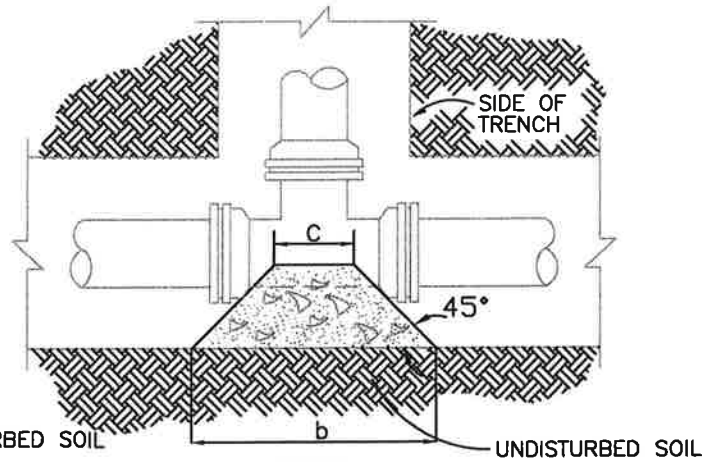
REF: SECTIONS 1.3.3 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

NOTE: THE TRIAX GEOGRID MUST BE INSTALLED TO MFG. SPECIFICATIONS.

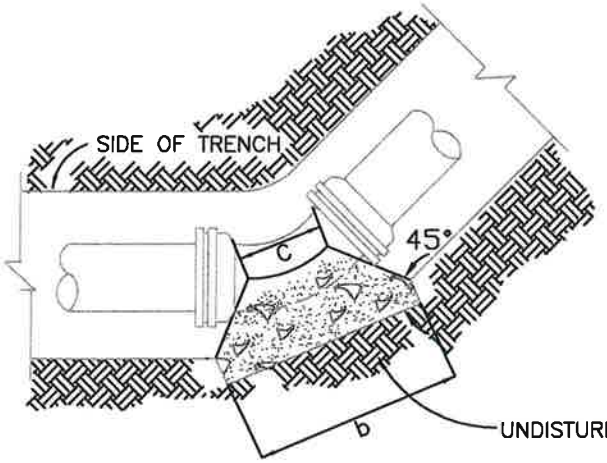
CITY OF ALCOA	REVISED:	SANITARY SEWER	DRAWING NO.
	25MAR2013	PIPE LAYING CONDITIONS STREET CUT	PIPE – W3



90° BEND
USED WHEN TEE IS NOT FEASIBLE

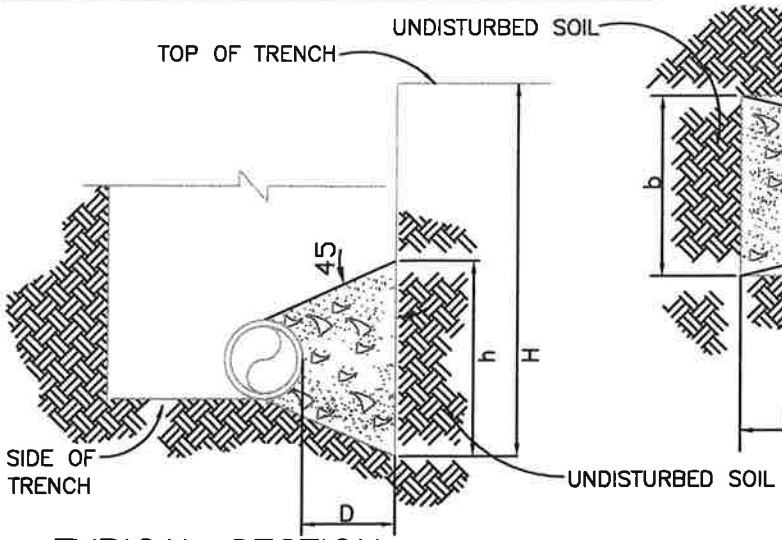


TEE

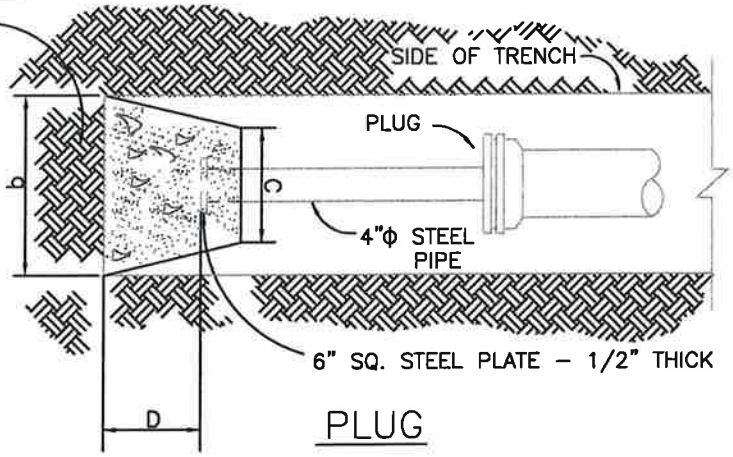


45°– 22 1/2°– 11 1/4° BENDS

NOTE: THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.
b×h – Required Bearing Block Area
b must be >h and <2×h
h must be >dia. of pipe and <H
45° – Minimum Angle from Bearing block Area.



TYPICAL SECTION



PLUG

REFERENCE: 'DIPRA' THRUST RESTRAINT DESIGN FOR DI PIPE
http://www.dipra.org/pdf/thrustRestraint.pdf

CITY OF ALCOA	REVISED: APR–2015	THRUST BLOCKING DETAILS	DRAWING NO. TBD–1

TABLE CONDITIONS:
DESIGN PRESSURE: 100 PSI,
SOIL BEARING: 1,000 PSF (SOFT CLAY)
SAFETY FACTOR: 1

ALL OTHER CONDITIONS MUST BE CALCULATED AS PROVIDED IN DIPRA "THRUST RESTRAINT FOR D.I. PIPE" AND DIMENSIONS PROVIDED.

11-1/4° BEND							
SIZE	4"	6"	8"	10"	12"	16"	24"
b	9"	12"	15"	23"	24"	29"	50"
h	6"	9"	12"	12"	16"	18"	30"
C	8"	10"	12"	14"	16"	18"	18"
D	6"	6"	6"	18"	24"	24"	24"

22-1/2° BEND							
SIZE	4"	6"	8"	10"	12"	16"	24"
b	12"	18"	23"	27"	32"	37"	61"
h	9"	12"	16"	20"	24"	28"	48"
C	8"	10"	12"	14"	16"	15"	15"
D	4"	6"	9"	18"	24"	24"	24"

45° BEND							
SIZE	4"	6"	8"	10"	12"	16"	24"
b	18"	23"	30"	36"	42"	56"	107"
h	12"	18"	24"	30"	36"	36"	54"
C	8"	10"	12"	14"	16"	26"	59"
D	6"	9"	12"	18"	24"	24"	24"

90° BEND							
SIZE	4"	6"	8"	10"	12"	16"	24"
b	23"	32"	44"	55"	66"	78"	137"
h	16"	24"	30"	36"	42"	48"	78"
C	9"	12"	12"	15"	16"	42"	88"
D	8"	12"	16"	18"	24"	24"	24"

SIZE	TEE						
Main	4"-6"	8"-12"	8"-10"	12"	12"	12"	18"
Branch	4"-6"	2"-6"	8"-10"	2"-6"	8"-10"	12"	16"-18"
b		26"	43"	26"	43"	52"	70"
h		26"	43"	26"	43"	52"	70"
C		12"	12"	12"	12"	12"	30"
D		13"	21"	13"	21"	26"	24"

PLUG							
SIZE	4"	6"	8"	10"	12"	16"	24"
b	26"	36"	52"	70"	82"	98"	108"
h	20"	30"	36"	40"	48"	54"	96"
C	12"	12"	12"	12"	18"	30"	36"
D	18"	18"	18"	24"	24"	36"	36"

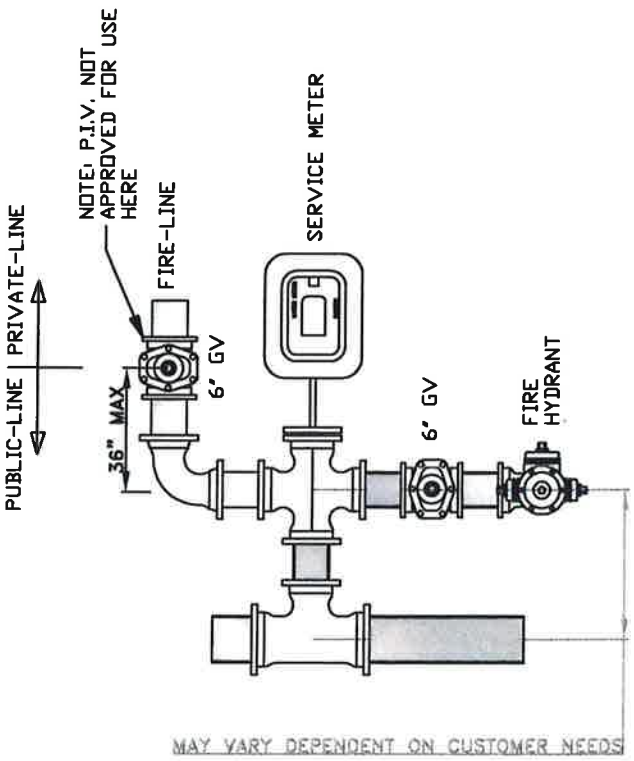
NOTES:

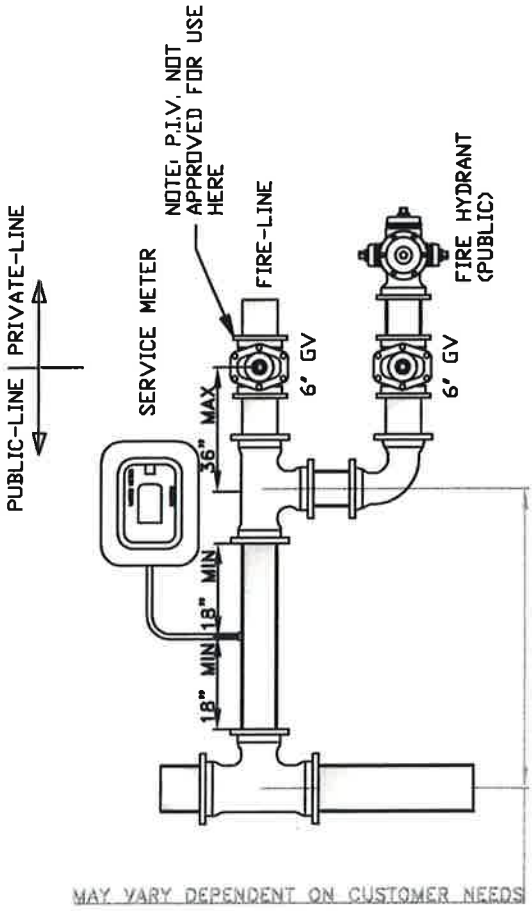
1. CITY OF ALCOA INSPECTOR SHALL INSPECT ALL THRUST BLOCKS.

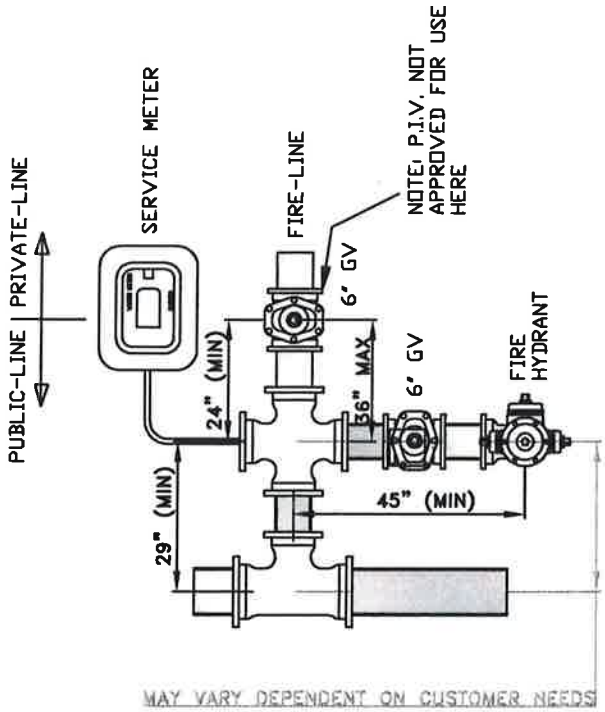
2. WRAP ALL FITTINGS IN HEAVY PLASTIC BEFORE PLACING CONCRETE.

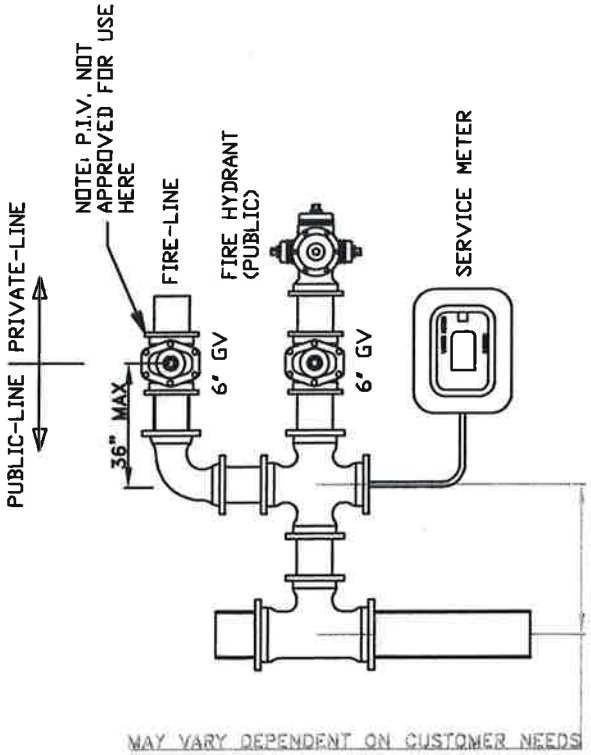
3. THERE MUST BE ADEQUATE HORIZONTAL CLEARANCE BEHIND THRUST BLOCK(S) OF UNDISTURBED EARTH BEHIND THRUST BLOCK BASE TO SUPPORT DESIGN LOAD – (b DIMENSION)

CITY OF ALCOA	REVISED:	THRUST BLOCKING DIMENSIONS	DRAWING NO.
	APR-2015		TBD-2

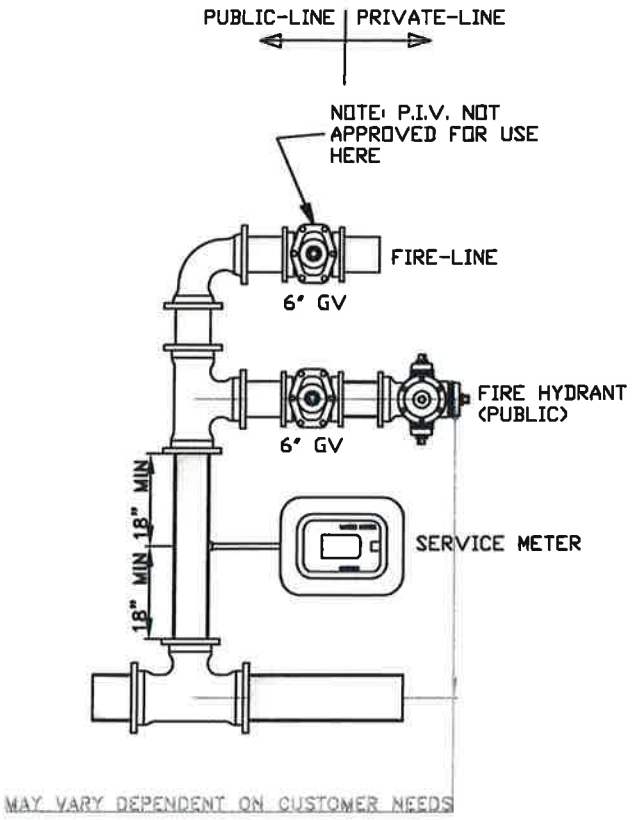


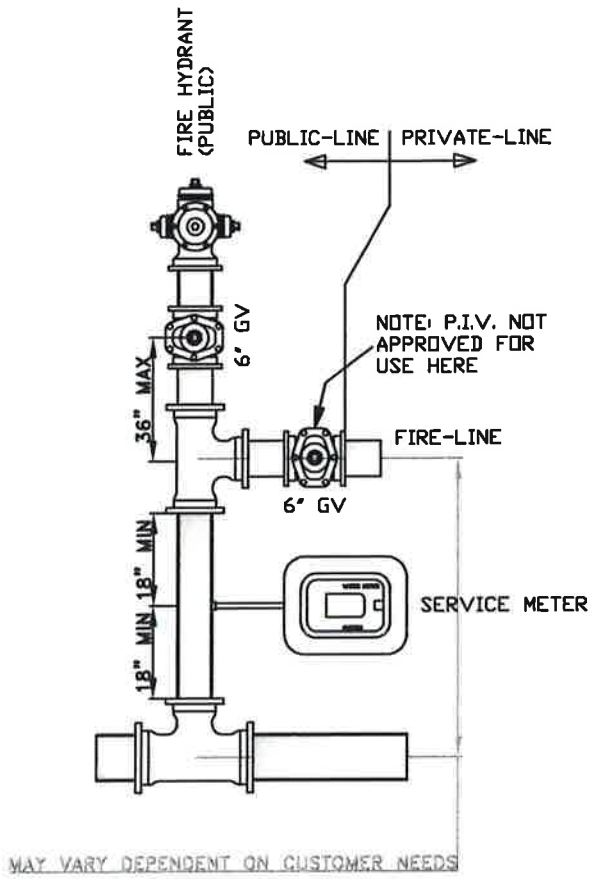


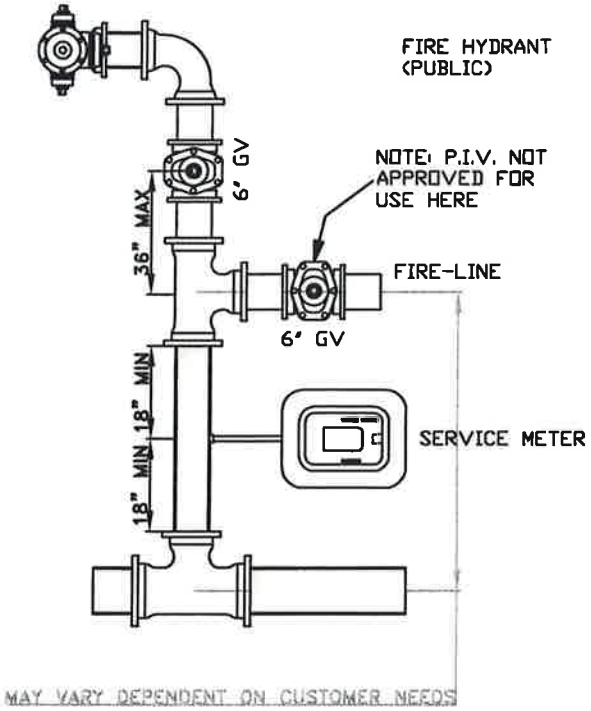


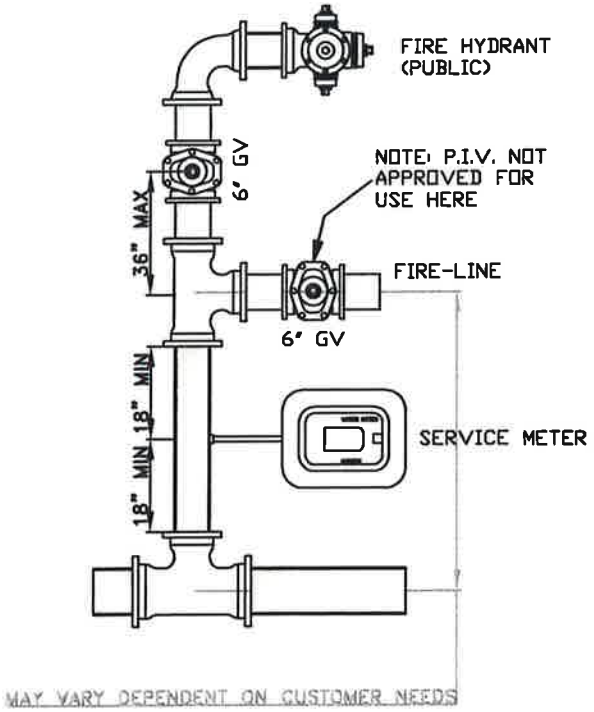


CITY OF ALCOA		REVISED:	TYPICAL COMBINED COMMERCIAL SERVICE & FIRE LINE	DRAWING NO.
		JAN 2011		SERVICE-1



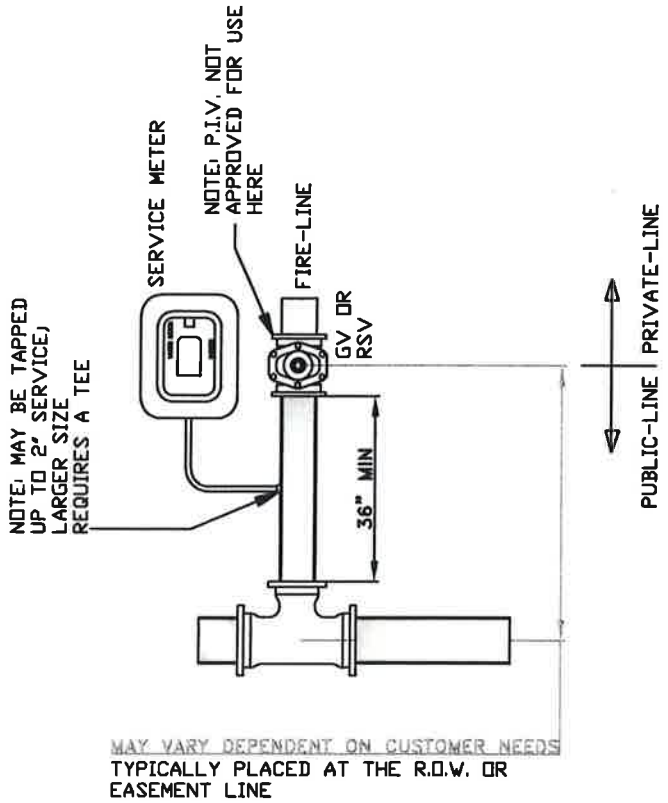


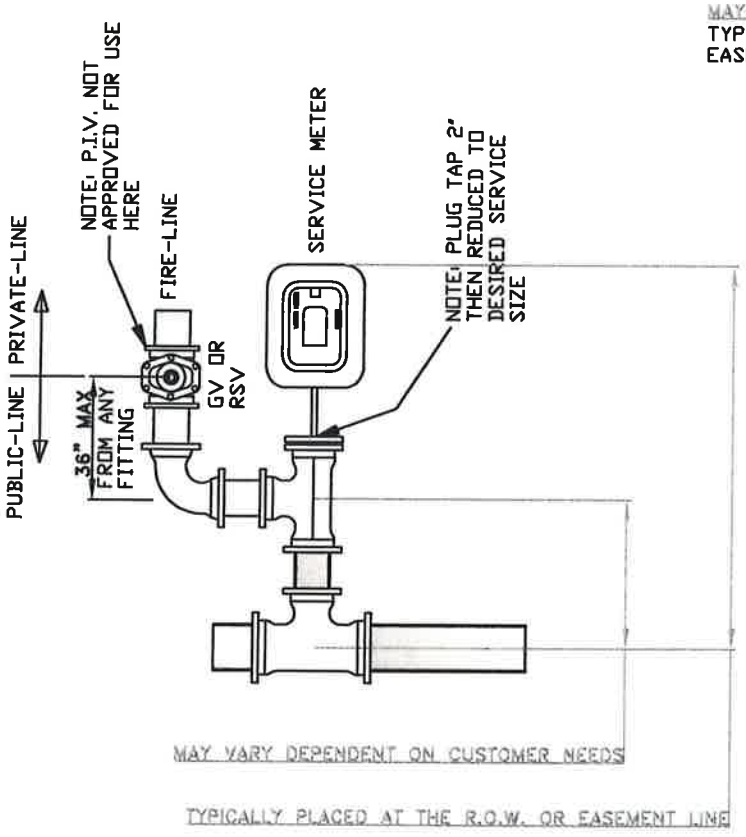




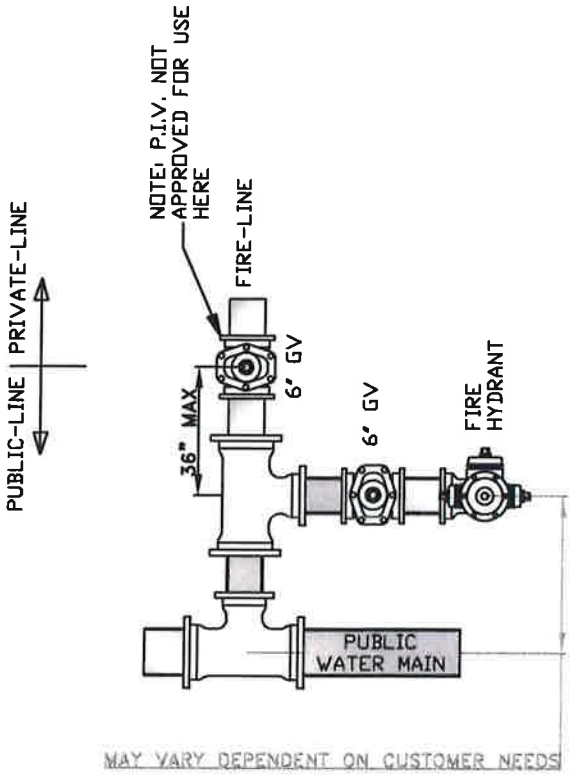
CITY OF ALCOA

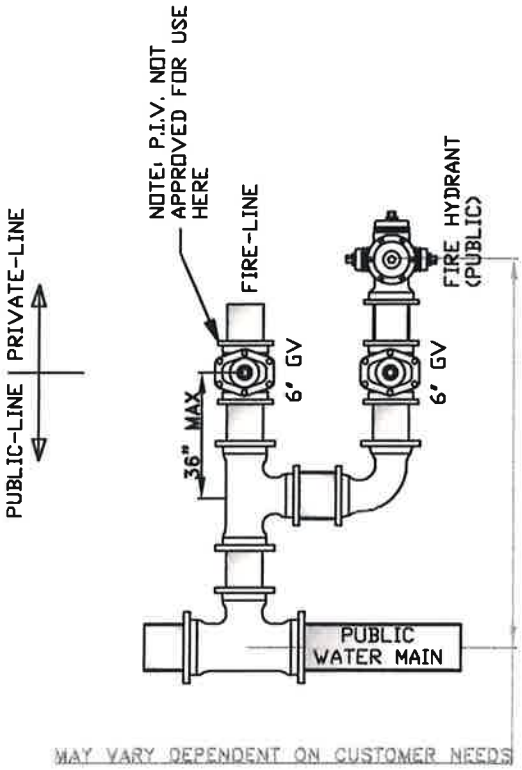
REVISED:	TYPICAL COMBINED COMMERCIAL SERVICE & FIRE LINE	DRAWING NO.
JAN 2011		SERVICE-2





CITY OF ALCOA	REVISED: JAN 2014	TYPICAL COMBINED COMMERCIAL SERVICE & FIRE LINE (WITHOUT FIRE HDYT.)	DRAWING NO. SERVICE-3



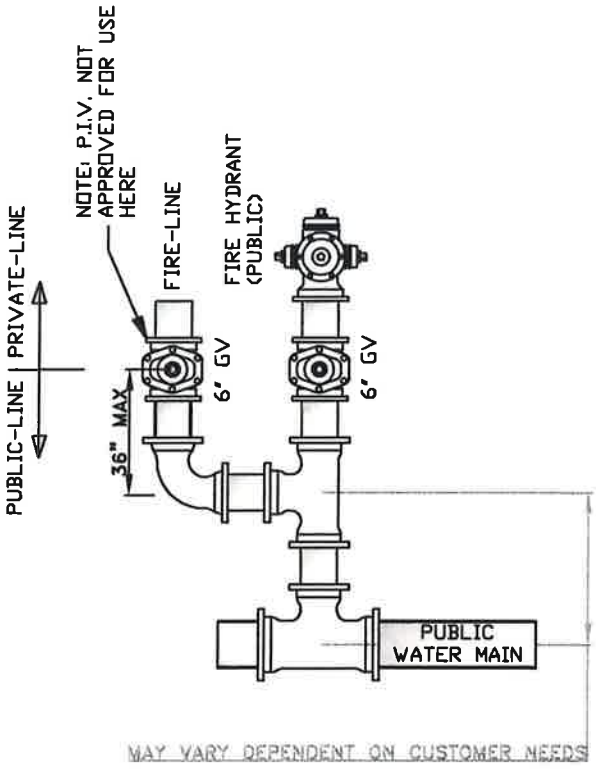


NOTES:

1. FIRE HYDRANTS ARE REQUIRED AT FIRE LINES WHEN THE ALCOA FIRE DEPARTMENT HAS DETERMINED THAT EXISTING PUBLIC FIRE HYDRANTS ARE NOT IN CLOSE ENOUGH PROXIMITY TO CONNECT TO THE FIRE DEPARTMENT CONNECTION ON THE CUSTOMERS FACILITY.

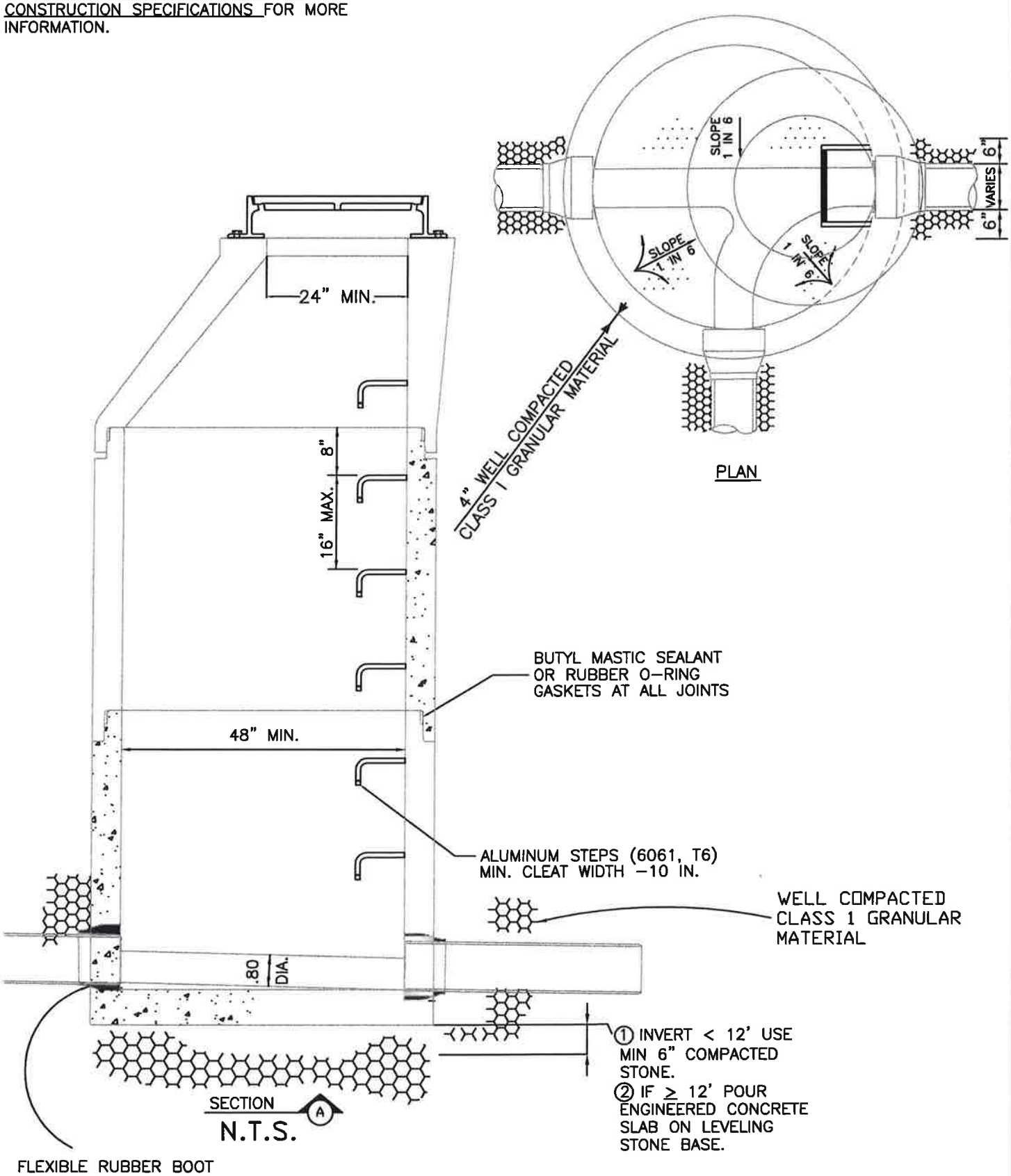
2. COMBINATION FIRE LINE SERVICE / FIRE HYDRANT CONNECTIONS MAY VARY TO MEET THE CUSTOMERS NEEDS. SHOWN AT TYPICAL AT PUBLIC WATER MAIN CONFIGURATIONS.

3. WHEN INSTALLED THE FACE OF ANY NOZZLE ON THE FIRE HYDRANT MUST BE A MINIMUM OF 2 FEET FROM THE FACE OF CURBING OR EDGE OF PAVEMENT.



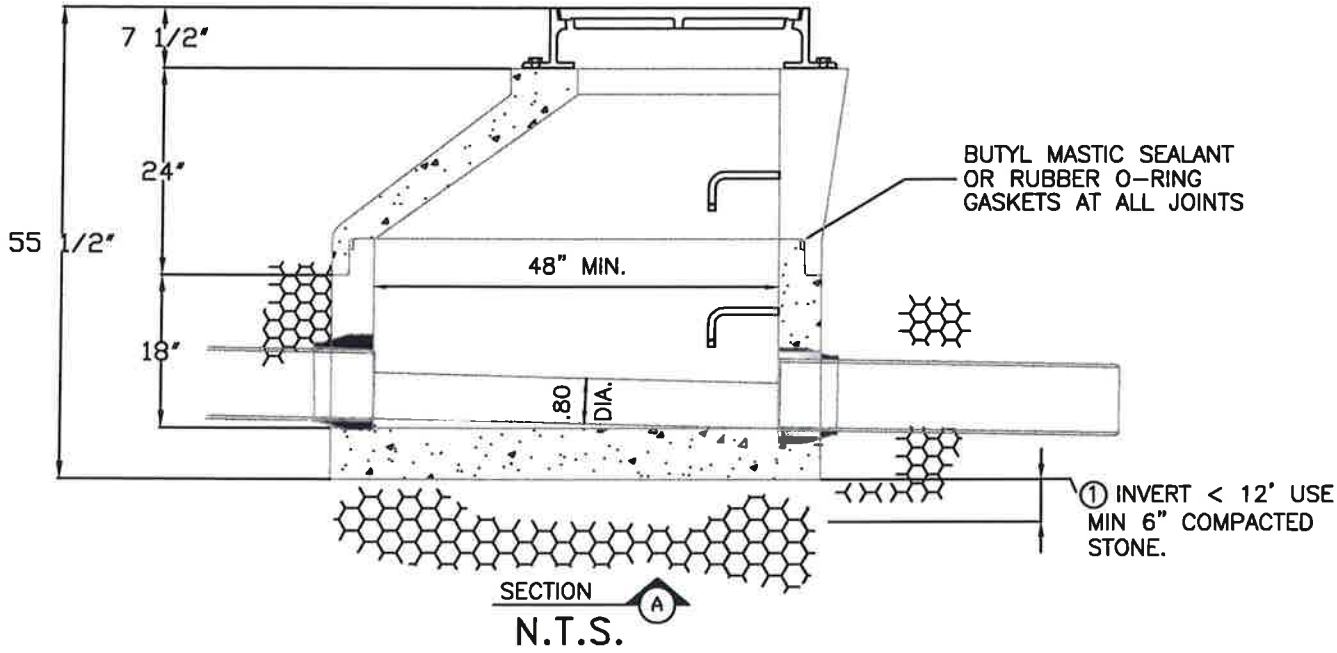
CITY OF ALCOA		REVISED: JAN 2013	TYPICAL FIRE LINE SERVICE	DRAWING NO. FIRELINE 1

NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

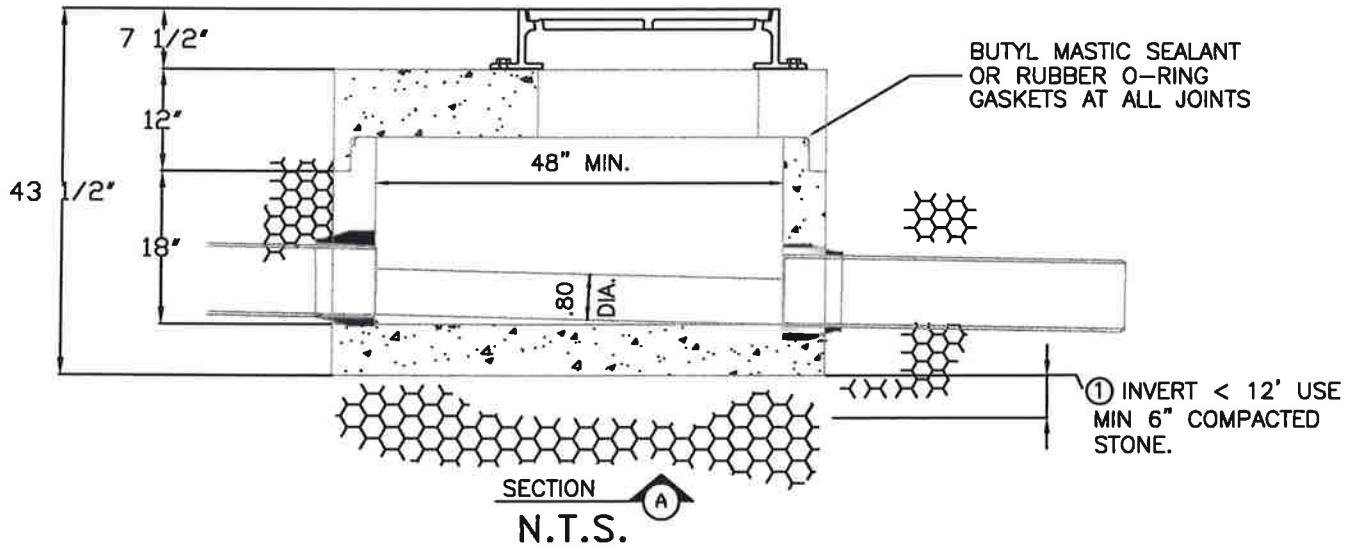


CITY OF ALCOA	REVISED:	STANDARD PRECAST CONCRETE MANHOLE	DRAWING NO.
	APR–2009		MH–PRECAST

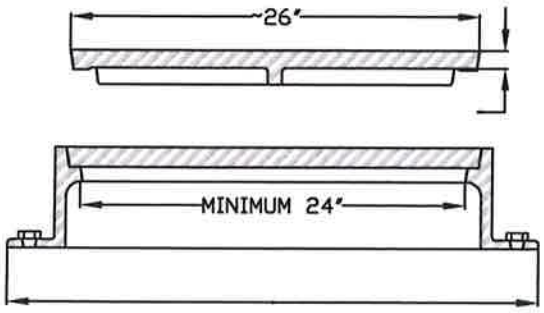
NOTE:
1. SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.
2. SEE STANDARD MANHOLE DRAWING FOR OTHER DETAILS



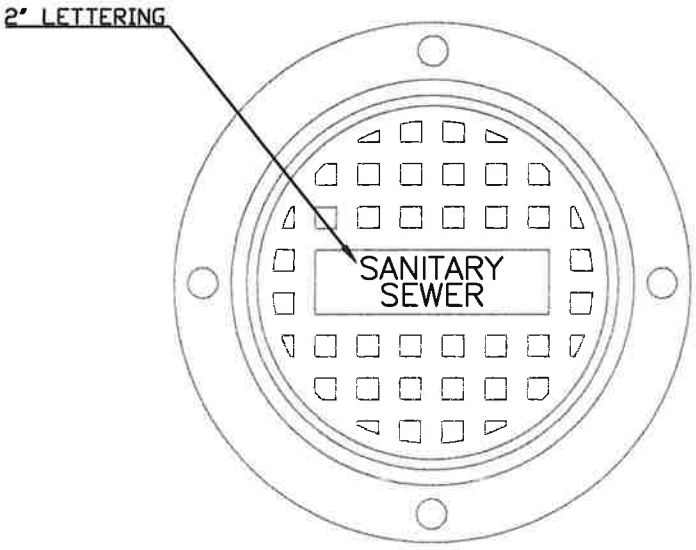
NOTE ON STEPS:
BEGIN INSTALLING STEPS WHEN OVERALL EXTERIOR HEIGHT OF MANHOLE EXCEDES 48 INCHES



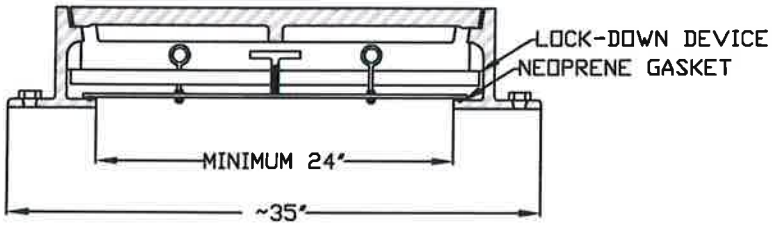
CITY OF ALCOA	REVISED: MAY–2009	SHALLOW PRECAST CONCRETE MANHOLE	DRAWING NO. MH–PRECAST



SECTION



TOP VIEW



SECTION – WATER TIGHT

NOTES:

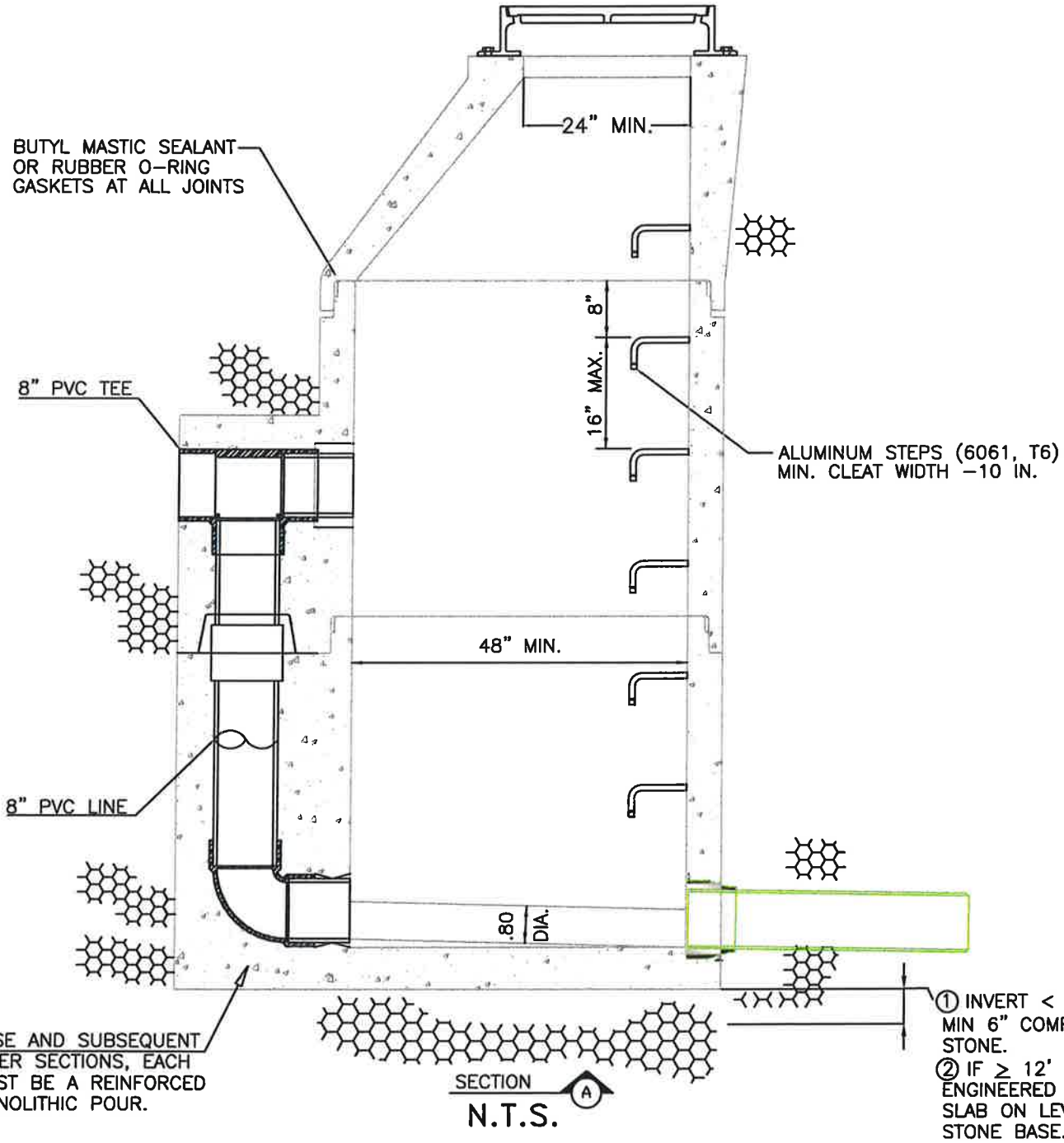
1. Manhole cover frames and lids shall be of gray cast iron meeting the latest requirements of ASTM Standard A48, Class 30, (30,000 psi); painting of the frame and lid is not required.

2. Manhole covers shall be Neenah R–1642; Vulcan Foundry, Inc., No. V–1380; or approved equal.

3. See CITY OF ALCOA WASTEWATER COLLECTION–CONSTRUCTION SPECIFICATIONS for more information.

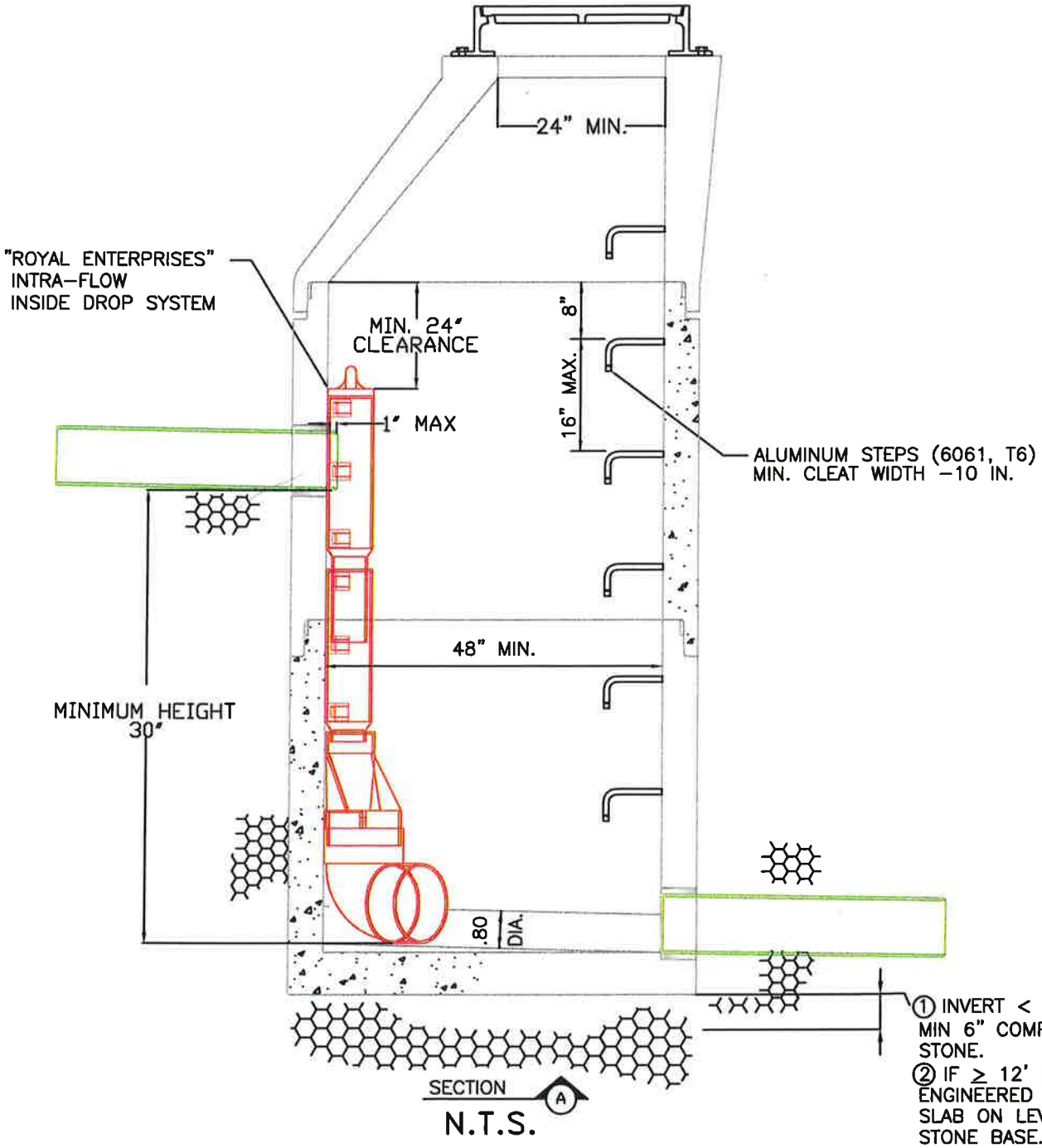
CITY OF ALCOA	REVISED:	MANHOLE FRAME & COVER	DRAWING NO.
	APR 2015		MH–FRAME & COVER

NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.



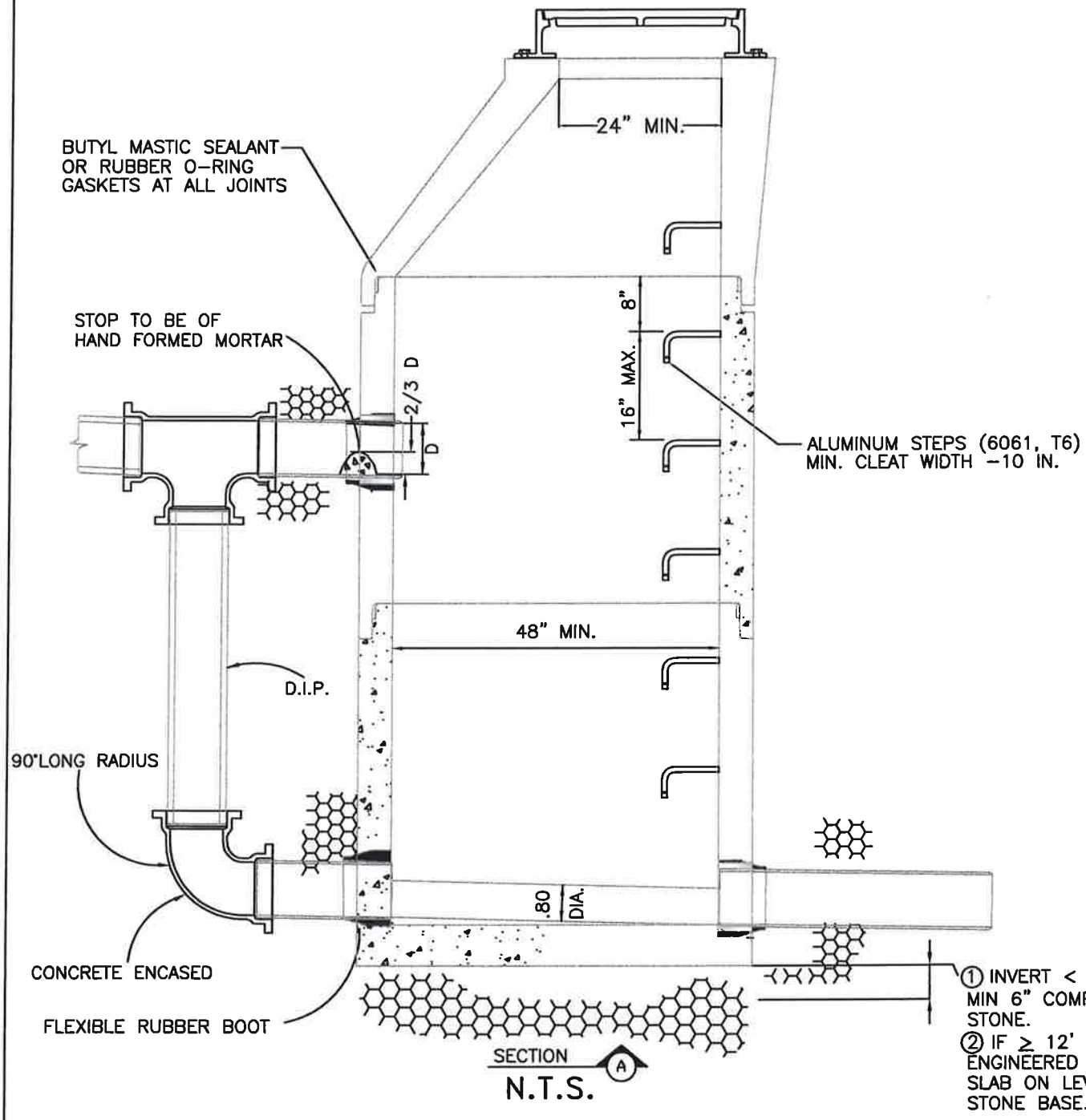
CITY OF ALCOA	REVISED:	STANDARD PRECAST CONCRETE DROP MANHOLE	DRAWING NO.
	DEC-2012		MH-D1

NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.



CITY OF ALCOA	REVISED:	OPTIONAL (=/> 8" PIPE) PRECAST CONCRETE INSIDE DROP MANHOLE	DRAWING NO.
	APR 2009		MH-D2

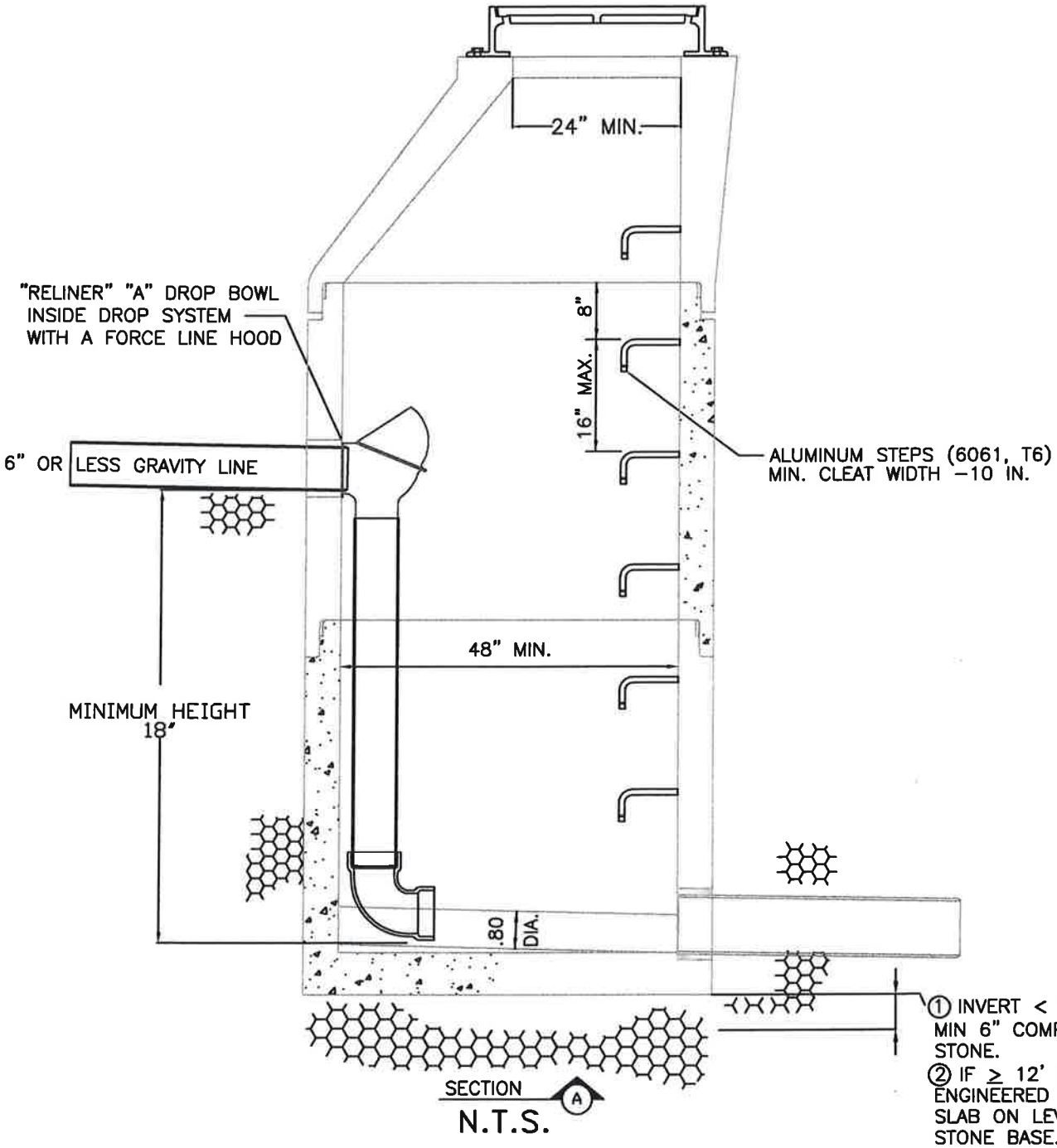
NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.



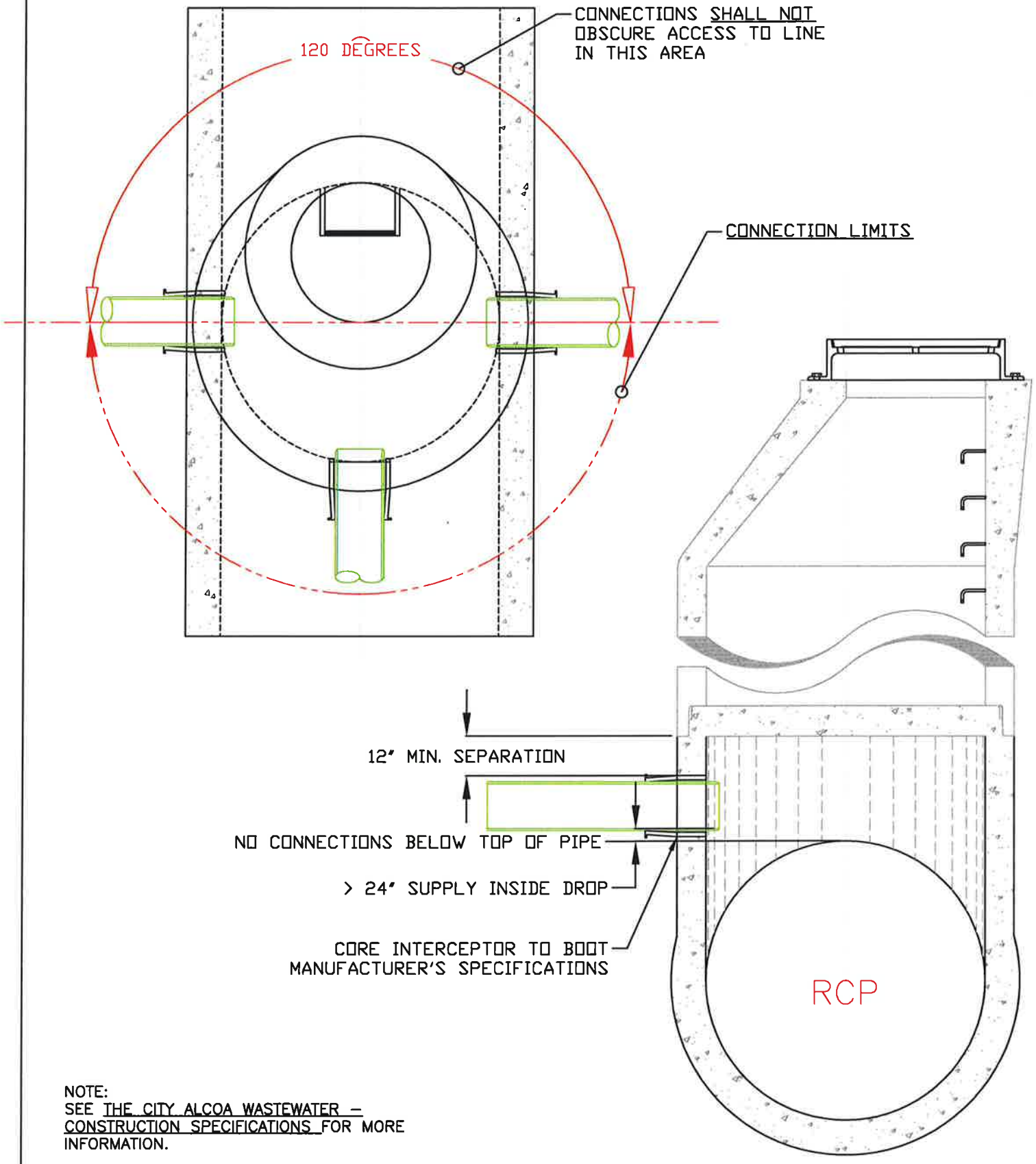
SECTION (A)
N.T.S.

CITY OF ALCOA	REVISED:	OPTIONAL PRECAST CONCRETE MANHOLE WITH OUTSIDE DROP	DRAWING NO.
	DEC-2012		MH-D3

NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

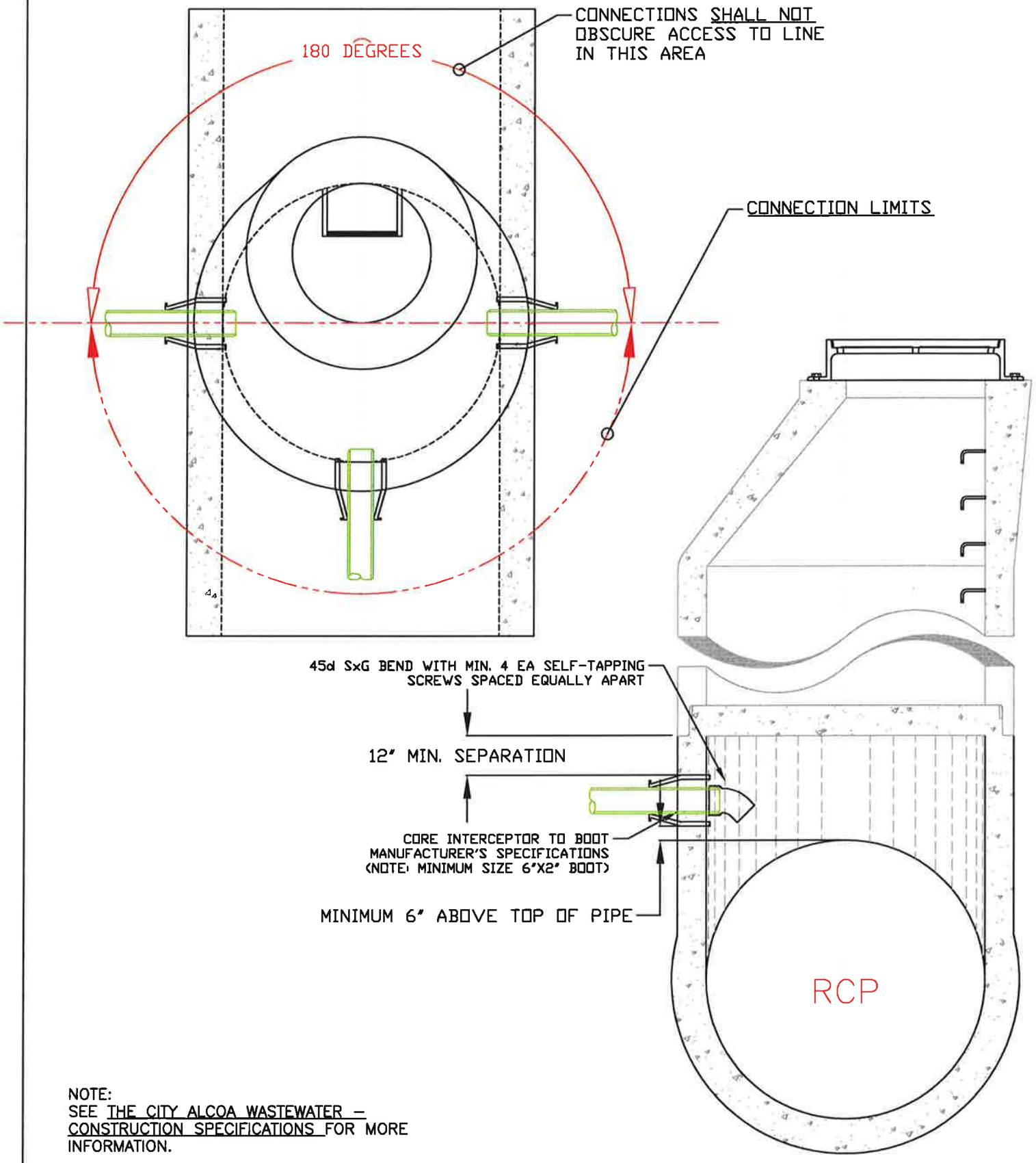


CITY OF ALCOA	REVISED:	OPTIONAL (6" PIPE) PRECAST CONCRETE INSIDE DROP MANHOLE	DRAWING NO.
	APR 2009		MH–D4



NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

CITY OF ALCOA	REVISED: APR 2015	EXISTING MANHOLE INTERCEPTOR CONNECTION	DRAWING NO. MH–INT1

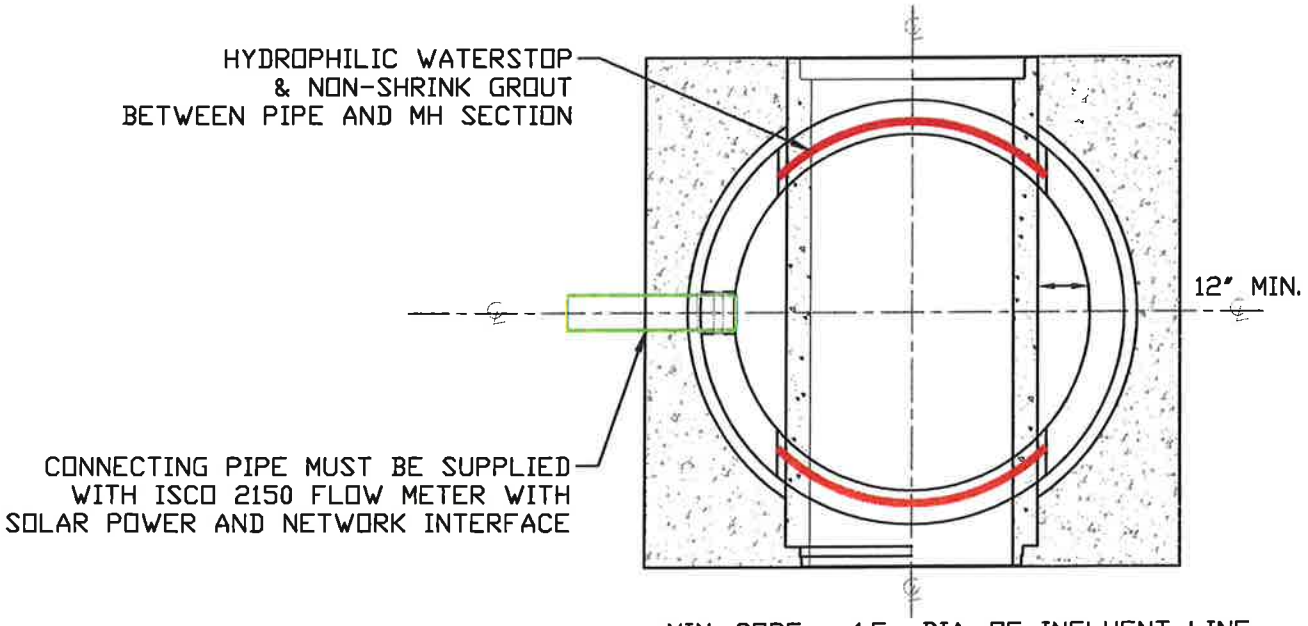


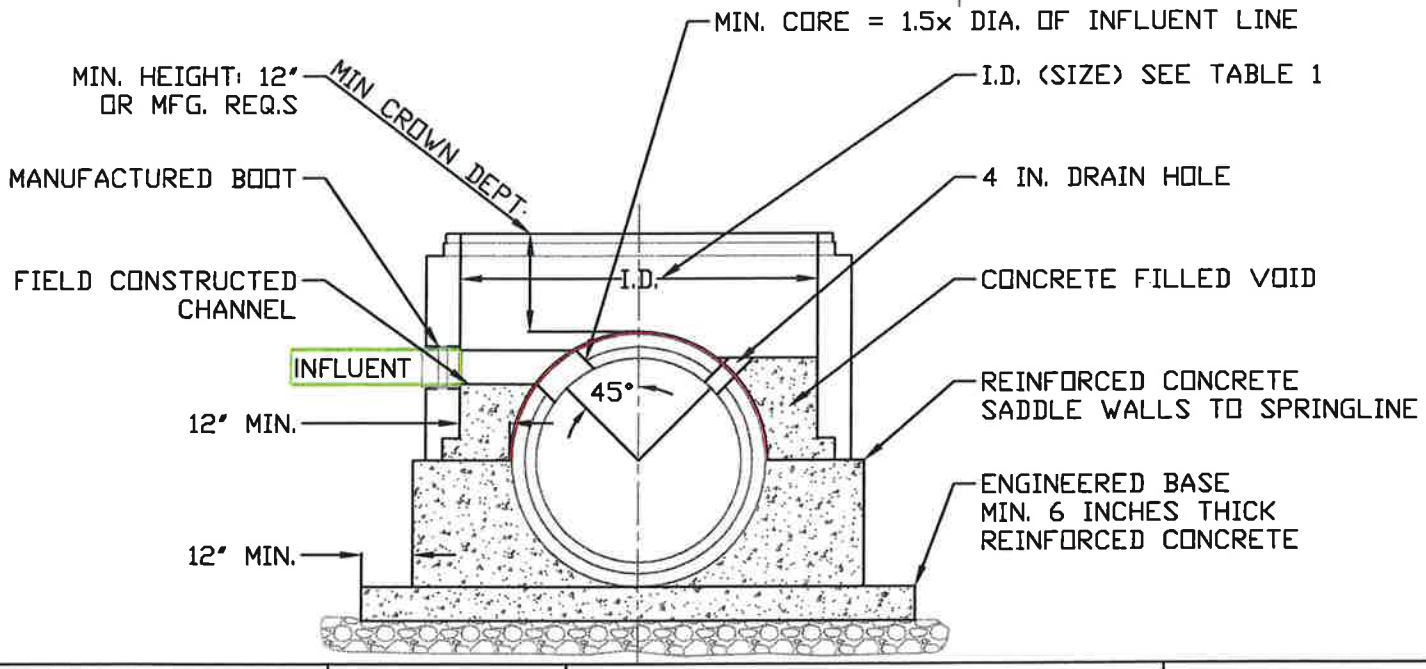
NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

CITY OF ALCOA	REVISED: APR 2015	EXISTING MANHOLE INTERCEPTOR CONNECTION FORCE MAIN	DRAWING NO. MH–INT2

DROP OVER MANHOLE	
PIPE SIZE (IN)	RISER I.D.
SDR35-C900-DI	
18"	48"
24"- 30"	60"
36"- 42"	72"
RCP	
18"	48"
24"	60"
30"-36"	72"
42"-48"	84"
54"	96"
60"-72"	120"

NOTE:
SEE THE CITY ALCOA WASTEWATER - CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

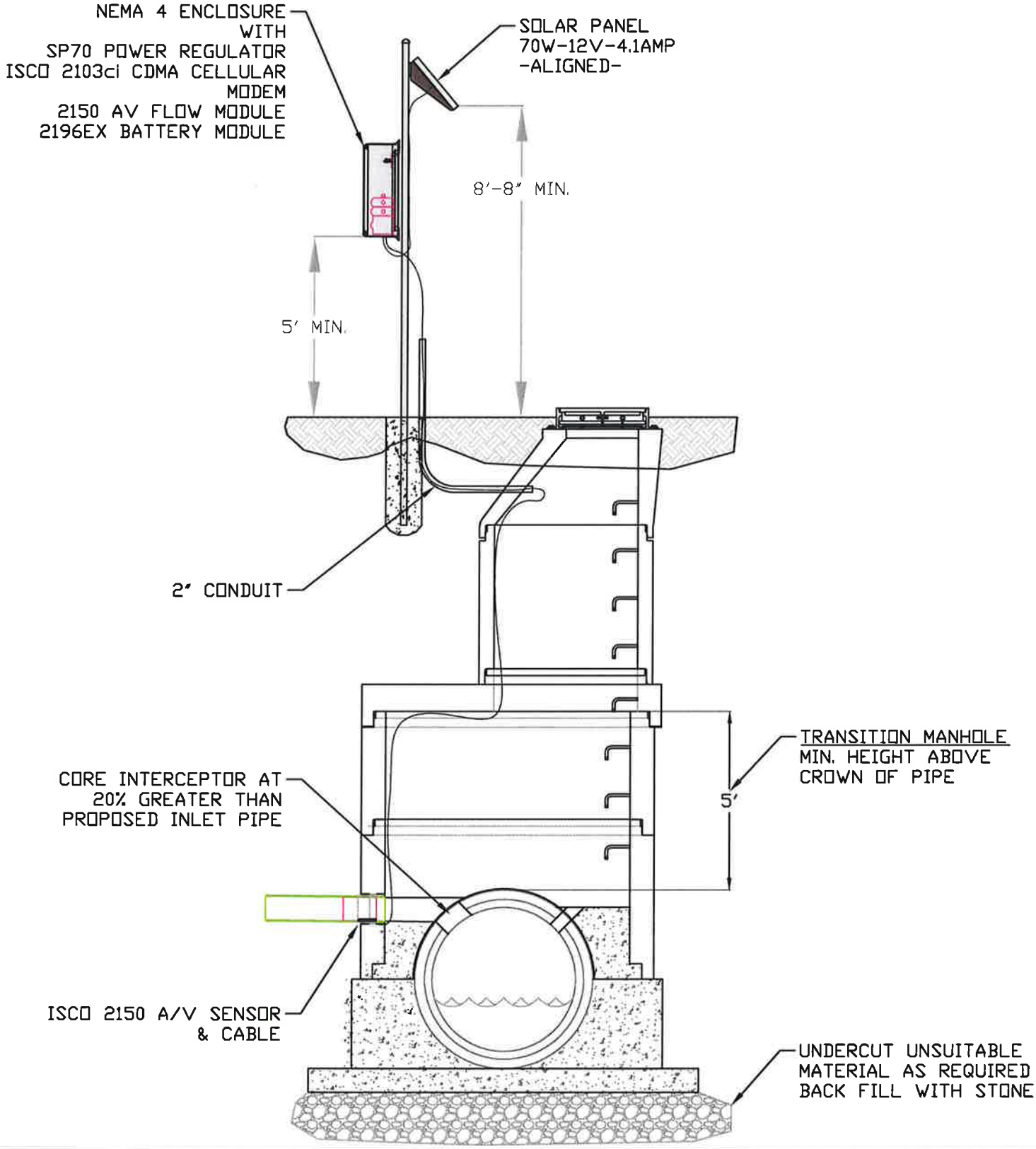




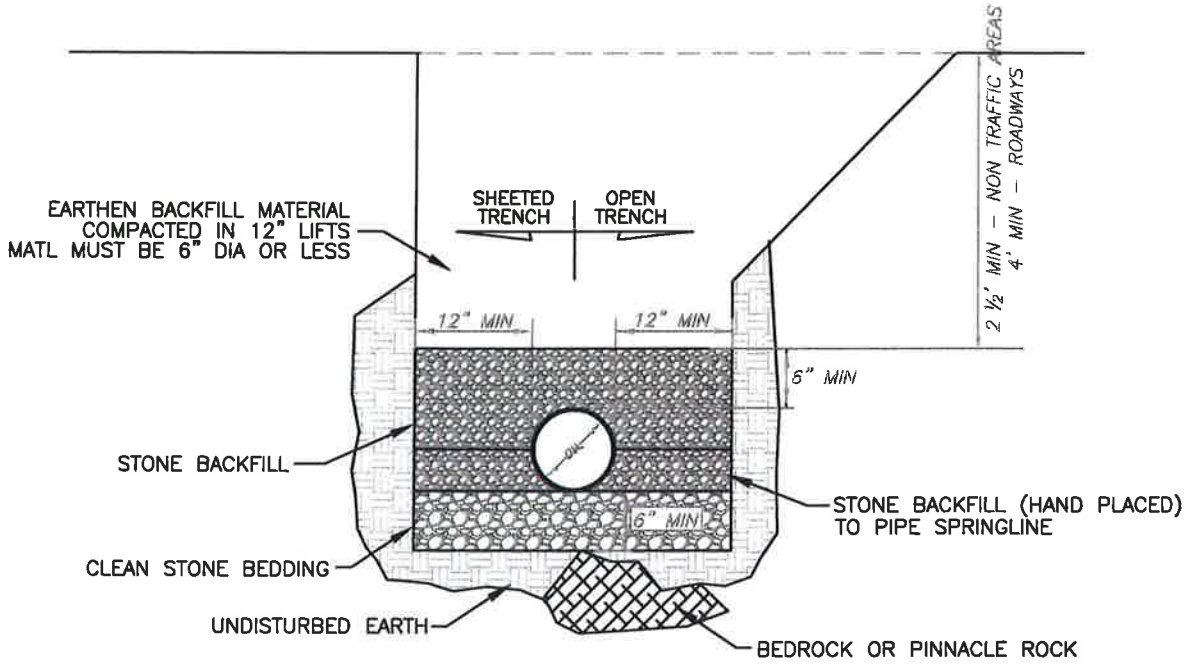
CITY OF ALCOA	REVISED: MAY-2013	STANDARD PRECAST CONCRETE DROP OVER MANHOLE	DRAWING NO. MH-DO-1

FLOW METER TO BE PLACED IN AREA NOT PRONE TO FLOODING. MAY BE PLACED IN NEXT MANHOLE UPSTREAM

NOTE:
SEE THE CITY ALCOA WASTEWATER – CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION.

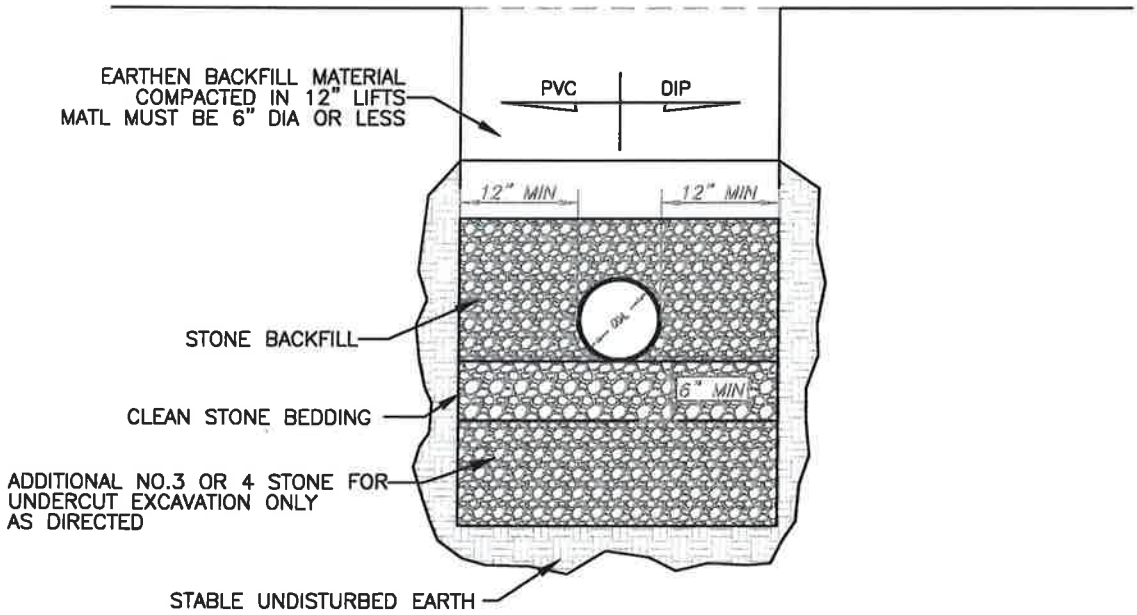


CITY OF ALCOA	REVISED: MAY 2013	PRECAST CONCRETE DROP OVER MANHOLE WITH FLOW METER	DRAWING NO. MH-D02



STANDARD EXCAVATION
PVC PIPE – 24" OR LESS

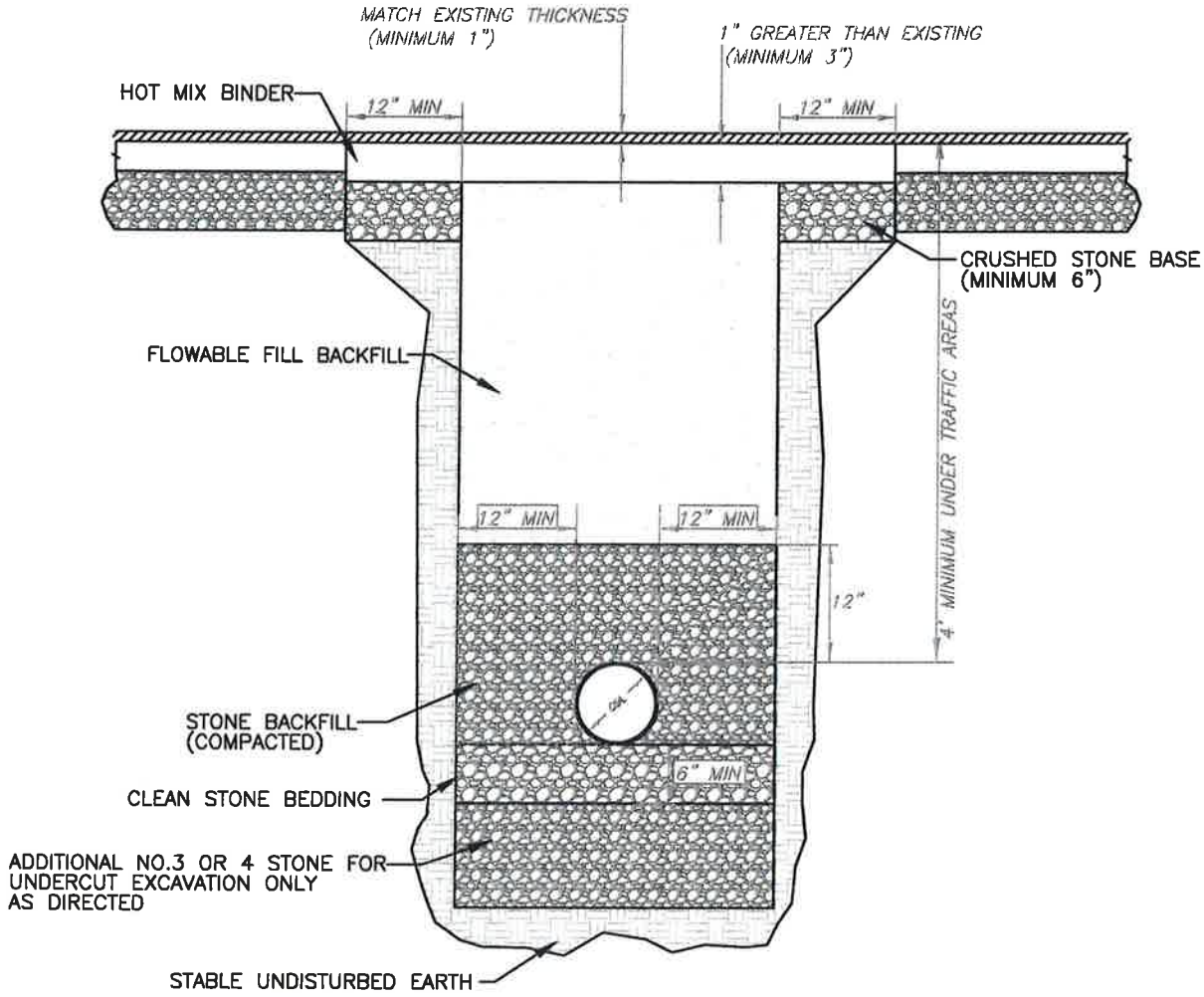
REF: SECTIONS 2.1.8, 2.3.3 & 2.3.4 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS



STANDARD EXCAVATION
UNDERCUT

REF: SECTIONS 2.3.3 – CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

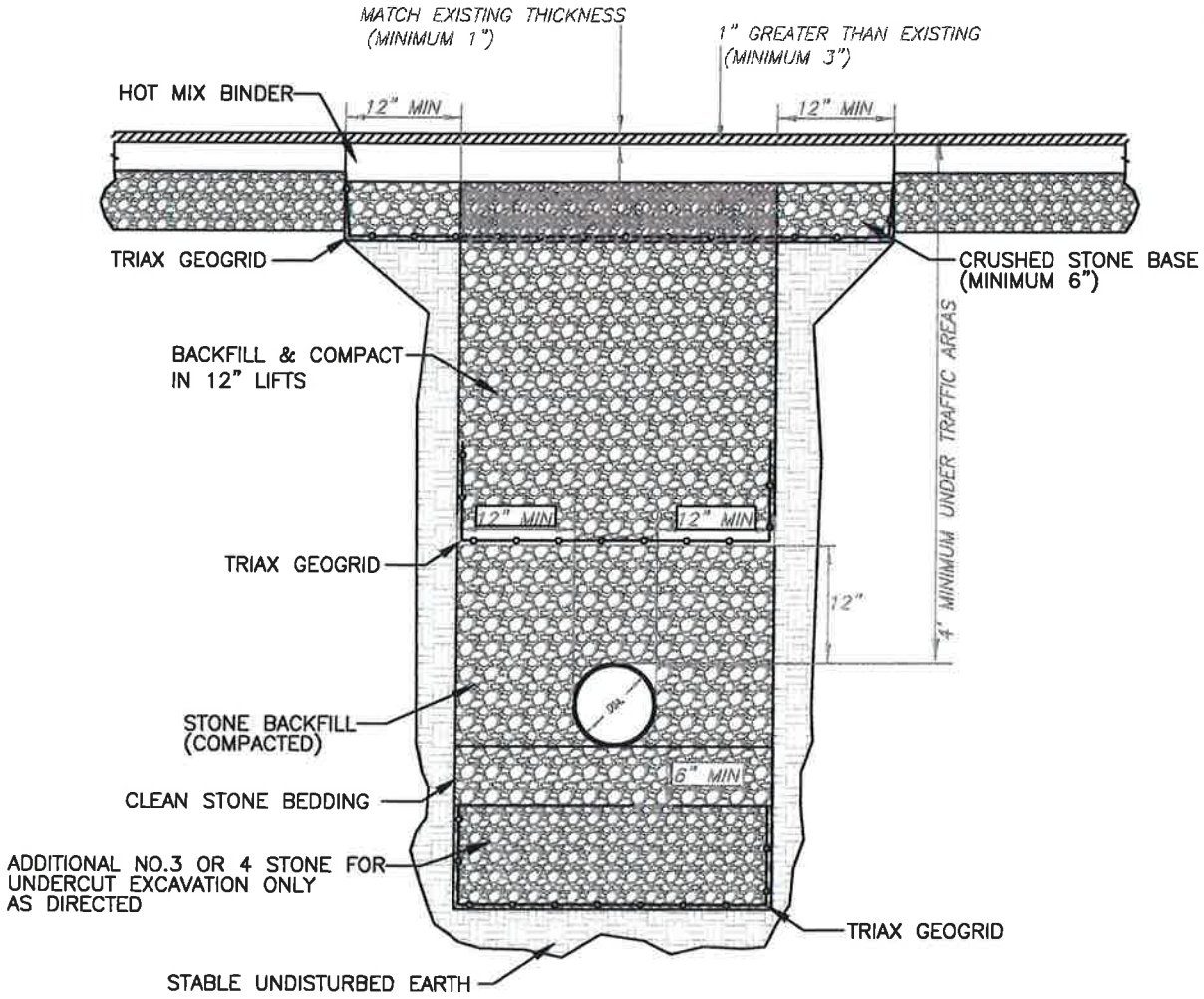
CITY OF ALCOA	REVISED: 25MAR2013	SANITARY SEWER PIPE LAYING CONDITIONS	DRAWING NO. PIPE – S1



STANDARD STREET CUT EXCAVATION
WITH UNDERCUT

REF: SECTIONS 2.3.3 - CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

CITY OF ALCOA	REVISED:	SANITARY SEWER	DRAWING NO.
	25MAR2013	PIPE LAYING CONDITIONS STREET CUT	PIPE – S2



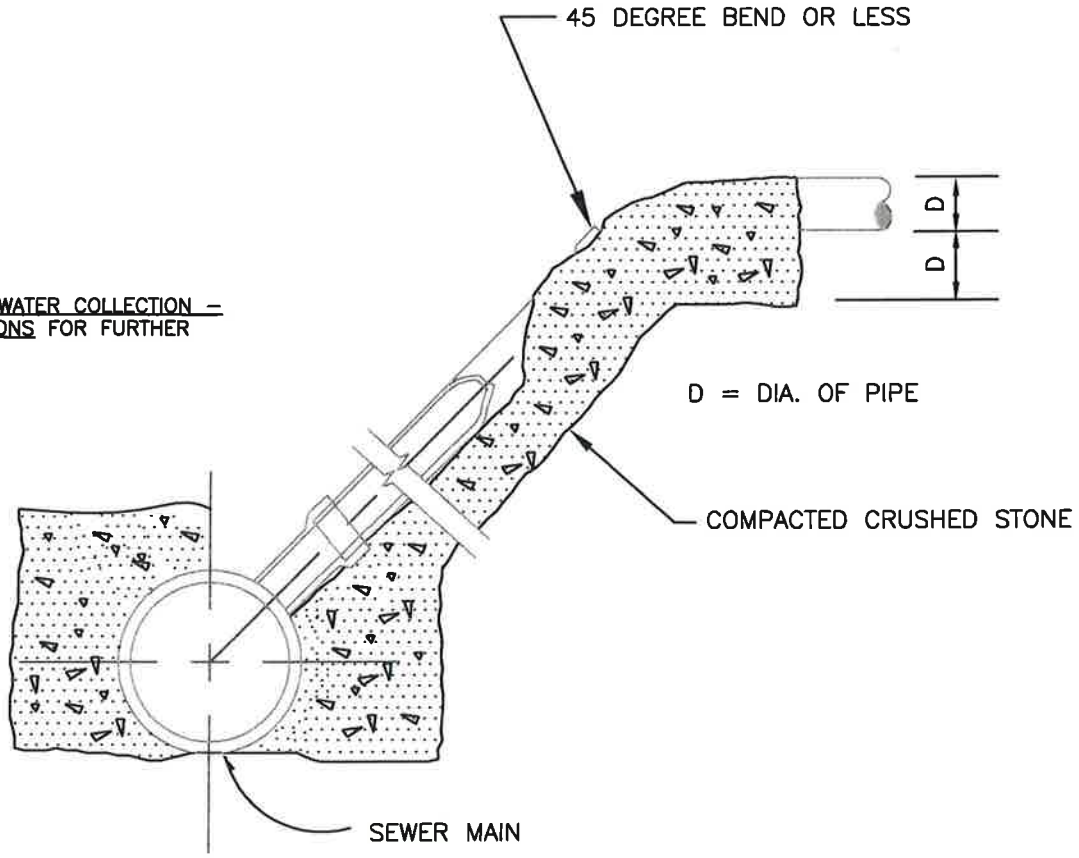
STREET CUT EXCAVATION WITH STONE BACKFILL
WITH UNDERCUT

REF: SECTIONS 2.3.3 - CITY OF ALCOA CONSTRUCTION SPECIFICATIONS

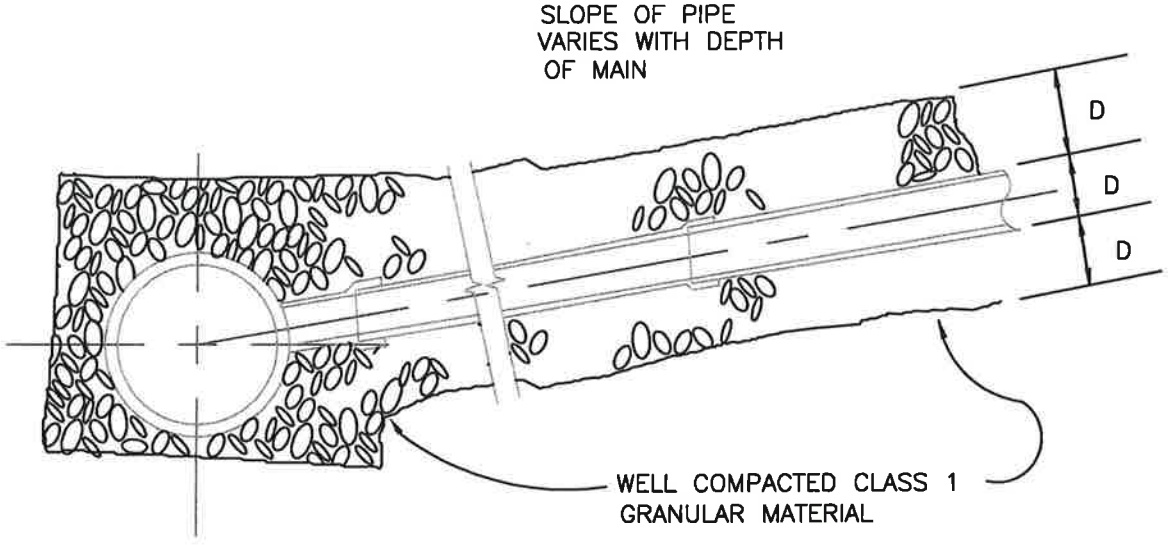
NOTE: THE TRIAX GEOGRID MUST BE INSTALLED TO MFG. SPECIFICATIONS.

CITY OF ALCOA	REVISED:	SANITARY SEWER	DRAWING NO.
	25MAR2013	PIPE LAYING CONDITIONS STREET CUT	PIPE – S3

NOTE:
SEE CITY OF ALCOA WASTEWATER COLLECTION – CONSTRUCTION SPECIFICATIONS FOR FURTHER INFORMATION.



DEEP MAIN



SHALLOW MAIN

CITY OF ALCOA		REVISED:	SEWER SERVICE CONNECTION	DRAWING NO. SEWER SERVICE

CITY OF ALCOA

REVISED:

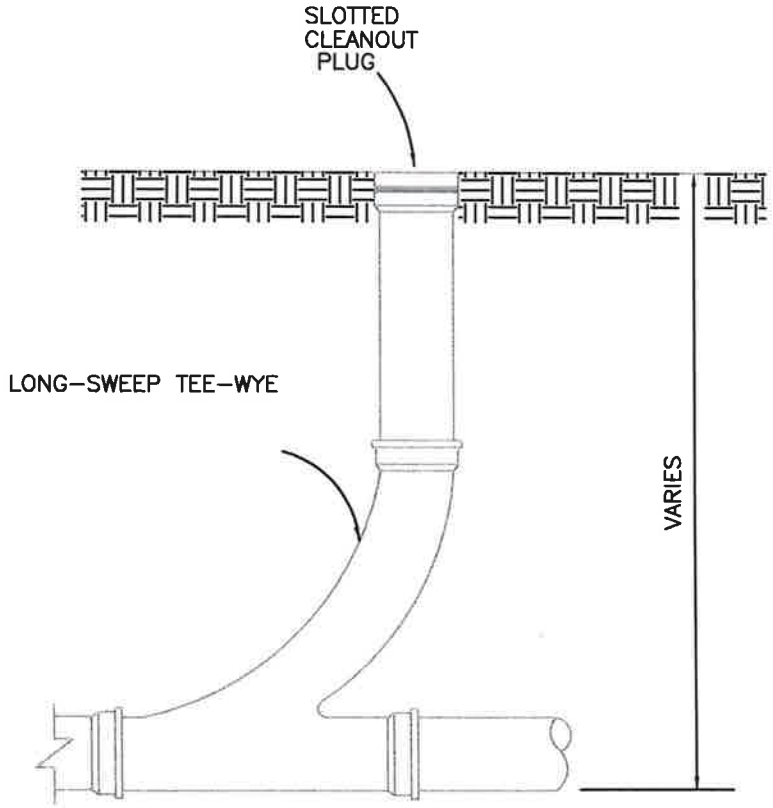
SEWER CLEANOUT

DRAWING NO.

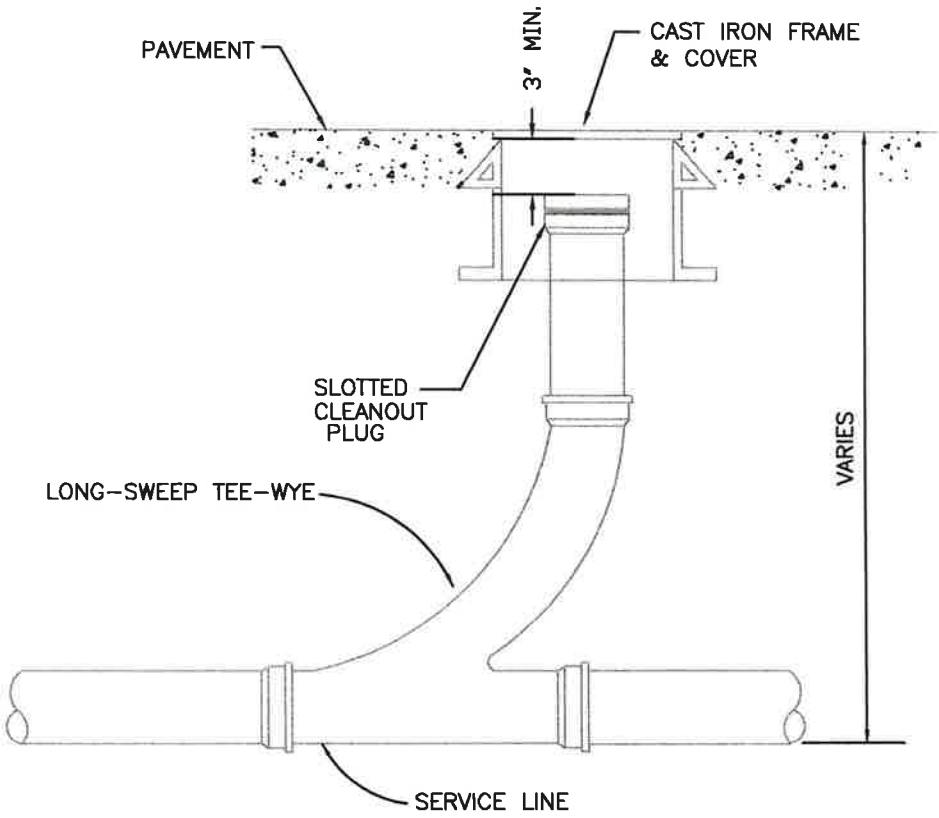
SEWER CLEANOUT

NOTES:

1. USE LONG-SWEEP TEE-WYE WITH MIN. 2' NIPPLE.
2. SEE CITY OF ALCOA WASTEWATER COLLECTION -CONSTRUCTION SPECIFICATIONS FOR FURTHER INFORMATION.
3. CLEANOUT PLUGS W/RAISED NUTS ARE PROHIBITED.



LAWN AREAS



PAVED AREAS

CLEANOUT DETAILS

NOT INSTALLED ON PUBLIC SIDE OF SERVICE

CITY OF ALCOA

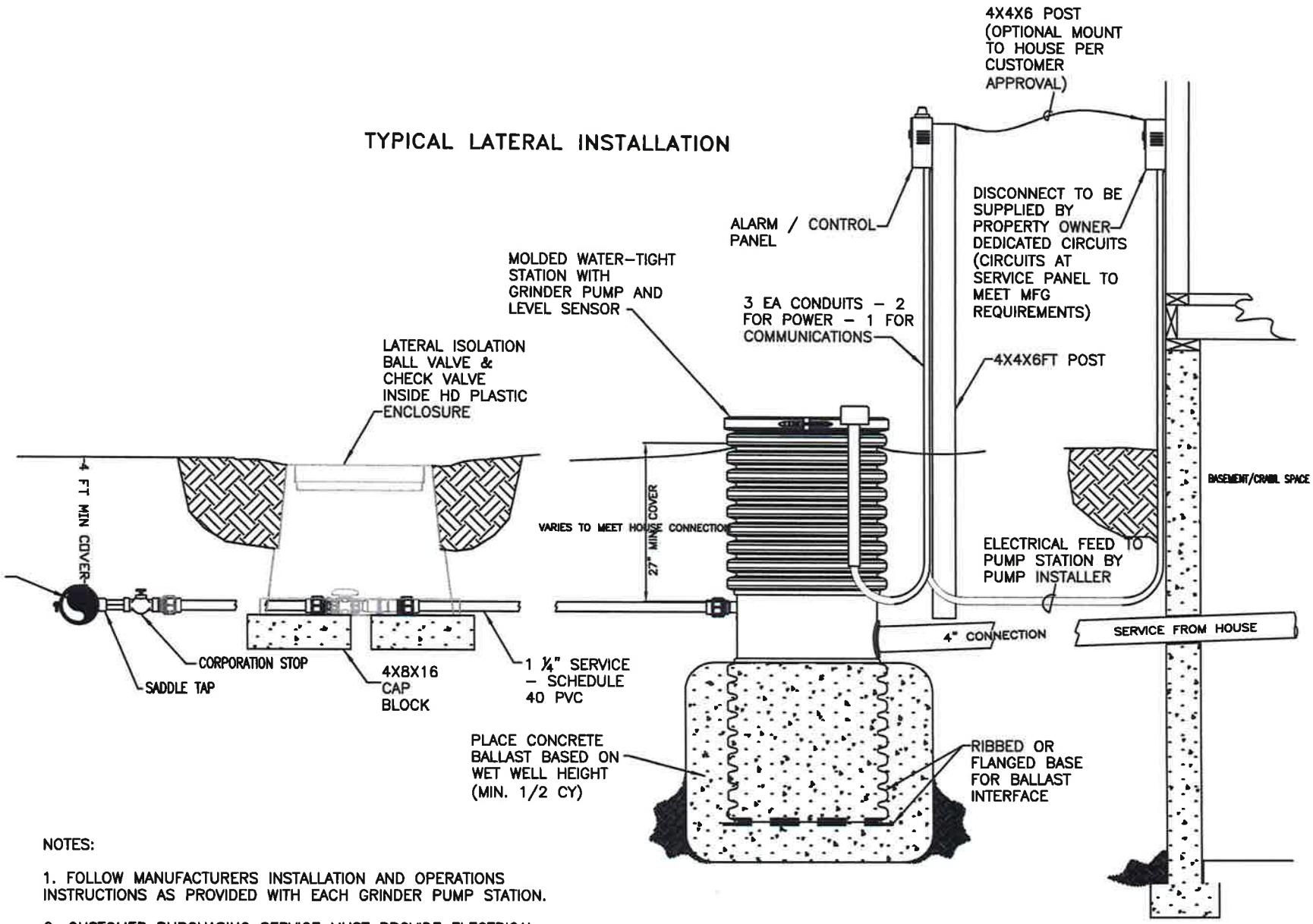
SOURCE: VARIOUS SYSTEMS

REVISED: JUL 2015

LPSS GRINDER PUMP INSTALLATION (GENERIC)

DRAWING NO. LPSS-SVC

TYPICAL LATERAL INSTALLATION

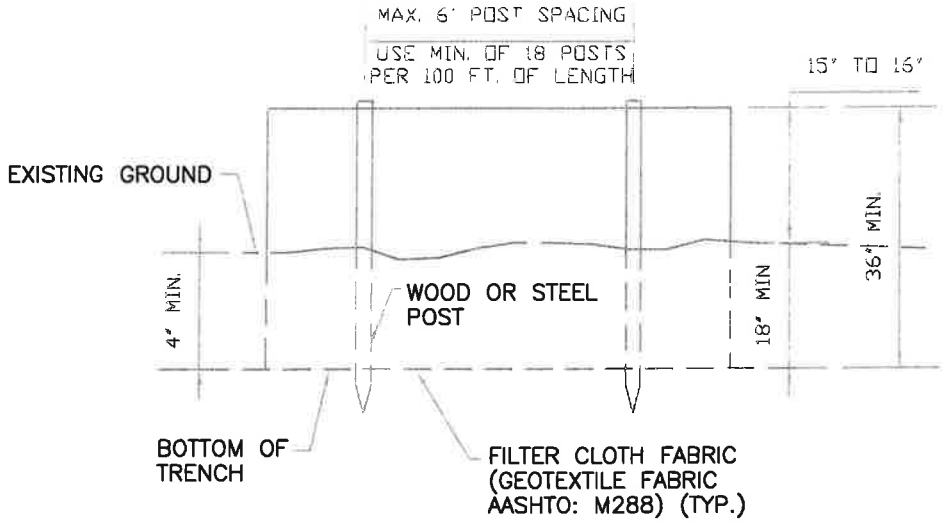


NOTES:

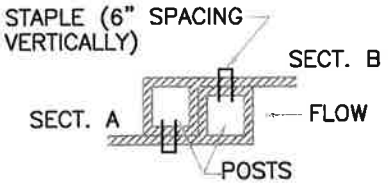
1. FOLLOW MANUFACTURERS INSTALLATION AND OPERATIONS INSTRUCTIONS AS PROVIDED WITH EACH GRINDER PUMP STATION.

2. CUSTOMER PURCHASING SERVICE MUST PROVIDE ELECTRICAL SERVICE TO A LOCATION ON OR NEAR HOME AS REQUIRED BY CITY ELECTRICAL CODE.

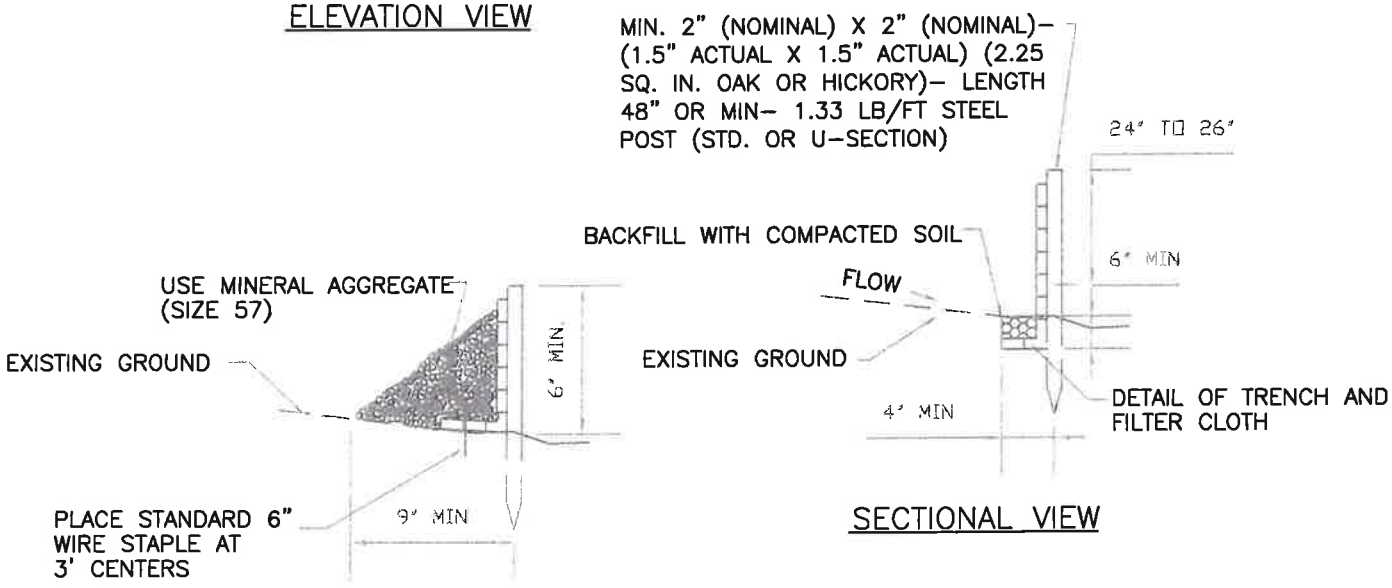
3. CUSTOMER SHALL BE PROVIDED AN USE GUIDE SHEET WITH EMERGENCY CONTACT TELEPHONE NUMBER.



ELEVATION VIEW



JOINING TWO ADJACENT TEMPORARY FILTER BARRIERS



SECTIONAL VIEW

NOTES:

1. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF THE STANDARDS FOR GEOTEXTILE AASHTO DESIGNATION: M288, SEDIMENTS CONTROL, SELF SUPPORTED.

2. THE FILTER MATERIAL SHALL BE STAPLED TO THE WOODEN STAKES. HEAVY DUTY WIRE STAPLES WITH 1/2" LEG AND 1" WIDTH SHALL BE USED AND EVENLY SPACED WITH AT LEAST FOUR PER POST STAPLED TO EXISTING TREES.

3. SILT FENCES AND FILTER BARRIERS SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOUR. THE BOTTOM OF THE FENCE OR BARRIER AT THE GROUND LINE SHOULD BE ON A ZERO PERCENT (0%) GRADE. ± .5%.

4. A PREASSEMBLED SILT FENCE OR FILTER BARRIER MEETING THE REQUIREMENTS OF THIS DRAWING IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE OR FILTER BARRIER.

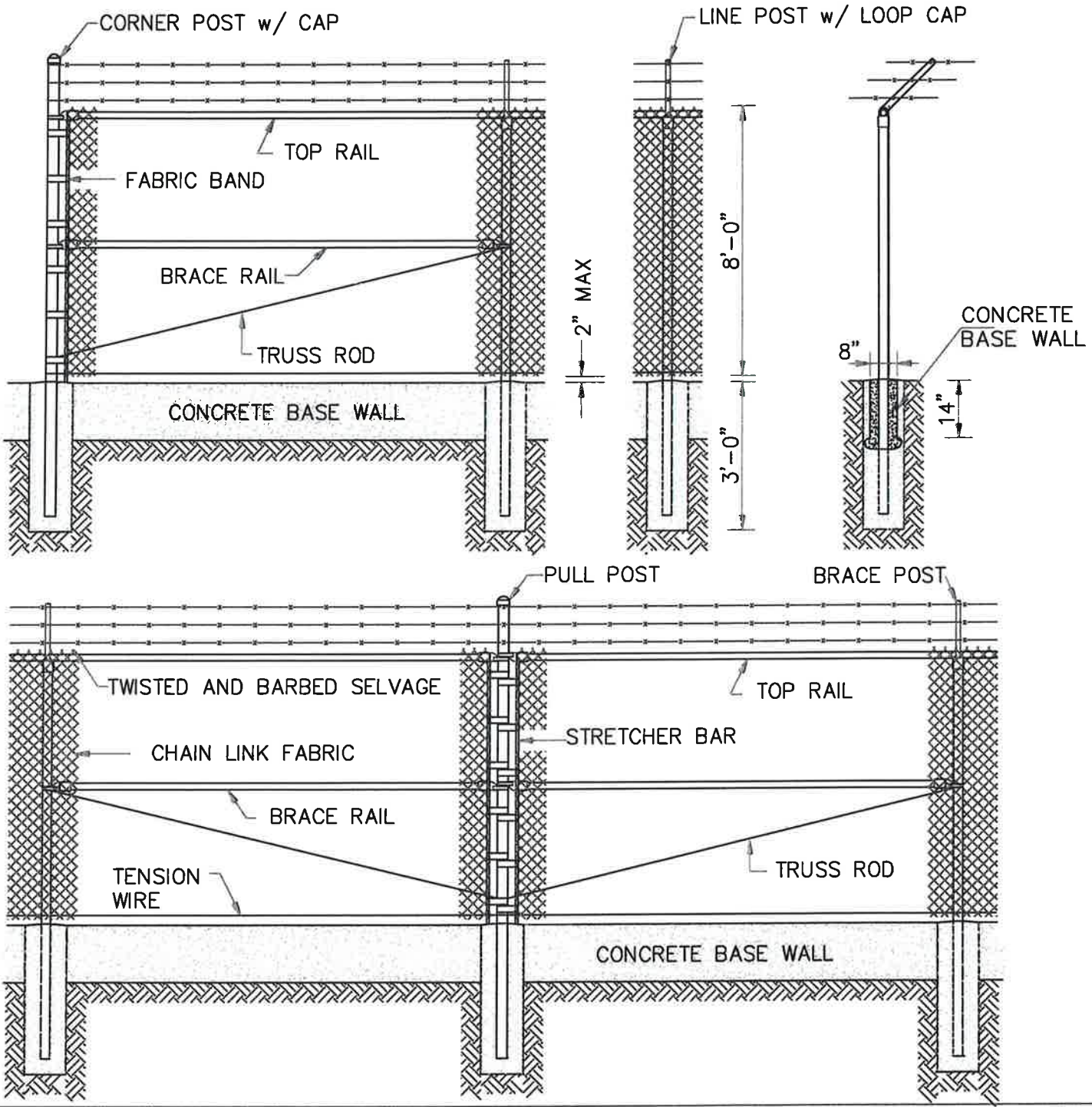
5. WHEN HEIGHT OF EMBANKMENT EXCEEDS 15 FEET THE USE OF A TEMPORARY SILT FENCE IS GENERALLY RECOMMENDED. WHEN HEIGHT OF EMBANKMENT IS LESS THAN 15 FEET THE USE OF A TEMPORARY FILTER BARRIER MAY BE USED.

CITY OF ALCOA		REVISED:	EROSION CONTROL FILTER BARRIER	DRAWING NO. TSF–1

MEMBER	NOMINAL DIA (IN)	MATERIAL	
BRACE RAIL	1.660	GALV TUBULAR STL	
GATE FRAME	2.00	GALV TUBULAR STL	
LINE POSTS	2.375	GALV TUBULAR STL	
END & CORNER POST	2.875	GALV TUBULAR STL	
CHAIN LINK FABRIC		6 GA. HOT DIP GALV.	
	GATE OPENING (ft)	NOMINAL DIA (IN)	MATERIAL
GATE POST	16'	4	GALV TUBULAR STL

NOTES:

1. ALL CHAIN LINK FABRIC SHALL BE 6 GAGE WITH TWISTED SELVAGE.
2. ALL FITTINGS, FASTENERS, & AND FABRIC TIES SHALL BE HOT DIP GALV.
3. CONC SHALL BE MIN 4000 PSI @ 28 DAYS.
4. PROVIDE BRACE RAIL BETWEEN END POSTS AND LINE POSTS. LENGTHS AS REQ'D.
5. PROVIDE GATE STOPS AND DROP RECEIVERS SET IN CONCRETE, EACH GATE.
6. PROVIDE EXTENSION ARMS ON LINE, END AND CORNER POSTS & GATE POSTS AS REQ'D.
7. CENTER BRACE RAIL NOT REQUIRED WITH FENCE HEIGHT OF 5' OR LESS.
8. PLACE TIES EVERY 15' VERTICALLY AND WHEN TOP RAILS ARE USED EVERY 24" HORIZONTALLY.



CITY OF ALCOA

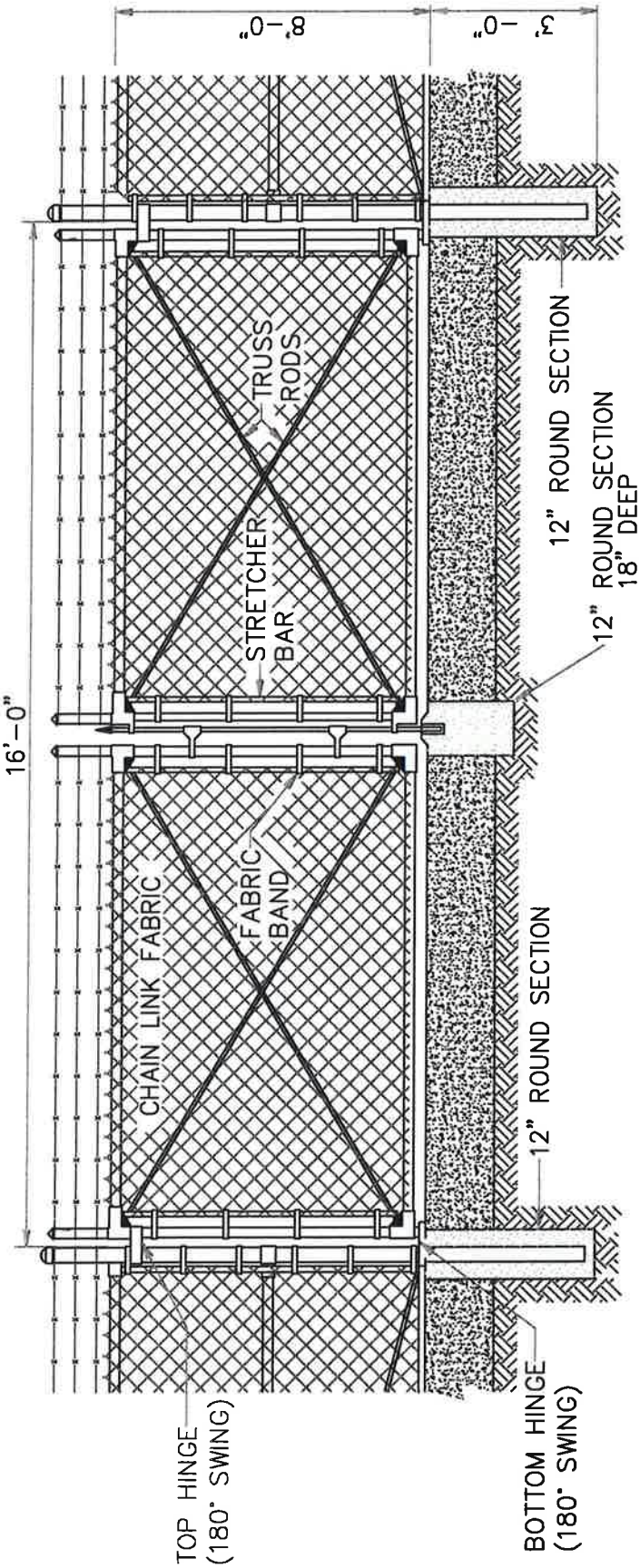
CITY OF ALCOA, TENNESSEE

PUBLIC WORKS AND ENGINEERING DEPARTMENT

HIGH SECURITY FENCE – DETAIL 1

DATE: 12FEB2013

DRWN BY: tsd



CITY OF ALCOA

CITY OF ALCOA, TENNESSEE
PUBLIC WORKS AND ENGINEERING DEPARTMENT
HIGH SECURITY FENCE – DETAIL 2

DATE: 12FEB2013

DRWN BY: tsd