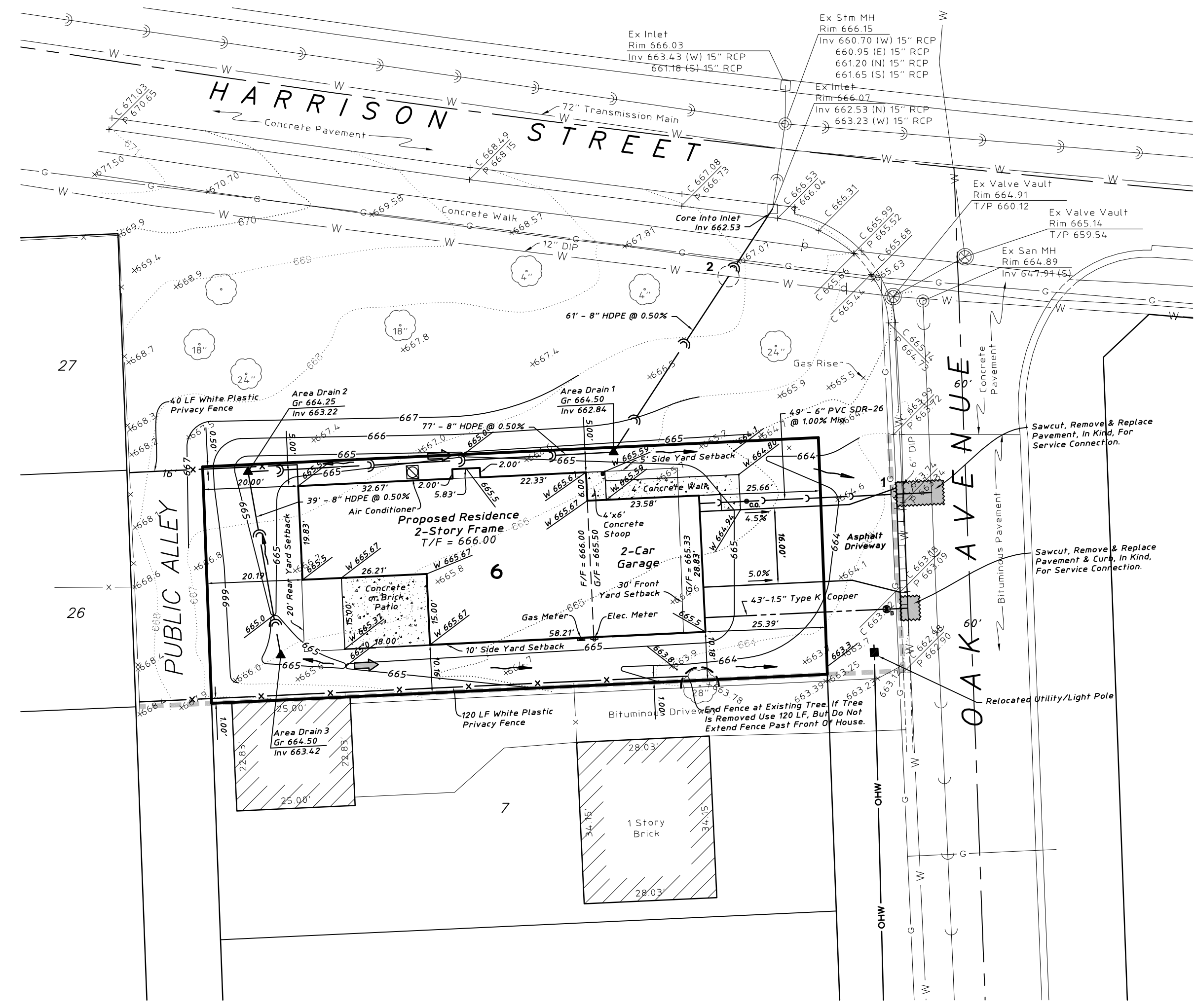


**EXISTING CONDITIONS**

**LEGEND**

Existing Symbol	Description	Proposed Symbol
○	Storm Sewer Manhole	▲
□	Catch Basin	● c.o.
△	Inlet	—
○	Area Drain	—
○	Sanitary Sewer Manhole	—
○	Clean Out	—
○	Storm Sewer	—
○	Storm Sewer Service	—
○	Downspout	—
○	Sanitary Sewer	—
○	Sanitary Sewer Service	—
○	Water Main	—
○	Water Service	—
○	Fire Hydrant	—
○	Valve Vault	—
○	B-Box	—
○	Light Pole	—
○	Fence	—
○	Sign	—
○	Gas Valve	—
○	Gas Line	—
○	Electric Line	—
○	Overhead Utility Line	—
○	Electrical Pedestal	—
○	Guy Wire	—
○	Utility Pole	—
○	Telephone Pedestal	—
○	Telephone Line	—
○	Cable TV Line	—
○	Cable TV Pedestal	—
○	Mailbox	—
○	Curb & Gutter	—
○	Depressed Curb	—
○	Curb Elevation and Gutter/Pavement Elevation	—
○	Pavement Elevation	—
○	Sidewalk Elevation	—
○	Ground Elevation	—
○	Open Lid Frame & Grate	—
○	Closed Lid Frame & Lid	—
○	Swale	—
○	Hardscape Flow	—
○	Softscape Flow	—
○	Contour Line	—
○	Deciduous Tree	—
○	Coniferous Tree	—
○	Utility Removal	—
○	Curb Removal	—
○	Fence Removal	—
○	Miscellaneous Removal	—
○	Sawcut	—
○	Tree Removal	—
○	Tree Protection	—
○	Silt Fence	—



**PROPOSED CONDITIONS**

**UTILITY CROSSING TABLE**

Crossing: 1
Bot of Ex. Water: 627.45
Top of Prop. San: 625.95

Crossing: 2
Bot of Prop. Storm: 662.62
Top of Ex. Water: 661.50

**NOTES:**

- Shallow bedrock exists, notify engineer and geotechnical consultant immediately if bedrock is encountered during foundation or utility excavation.
- Sanitary service shall be 6" PVC SDR-26 at 1.00% minimum slope.
- Water service shall be 1.5" copper "Type K" at a minimum depth of 5.0'.
- Storm sewer shall be 8" watertight HDPE, or approved equal.
- Area drains shall be 8" Nyloplast inline drains and drain basins, or approved equal.
- All downspouts shall splash on grade.
- Contractor shall dig test holes to determine depth of watermain and gas lines where utility services cross. Notify engineer immediately if conflicts exist.
- Coordinate with the Village of Hillside Public Works Department for connections to existing utilities and lane closures.
- Restoration of Village ROW shall be with 6" of topsoil, seed and blanket; or 4" of topsoil and sod.
- All existing tree stumps to be removed and disposed of properly.
- Asphalt driveway shall be a minimum of 2" HMA Surface Course and 6" compacted CA-6.
- All exterior concrete flatwork shall be a minimum of 5" PCC and 5" compacted CA-6.
- Locations of electric meter, gas meter, and air conditioner are approximate. See architectural plans and coordinate with utility companies for exact locations.
- Landscape screening for air conditioner to be provided by landscape contractor. See landscape plan for additional information.

**AREA SUMMARY:**

EXISTING	PROPOSED
HOUSE.....0 S.F.	HOUSE.....2,418 S.F.
DRIVEWAY.....0 S.F.	DRIVEWAY.....409 S.F.
PATIO & WALKS.....0 S.F.	PATIO & WALKS.....420 S.F.
TOTAL IMPERVIOUS.....0 S.F.	TOTAL IMPERVIOUS.....3,247 S.F.

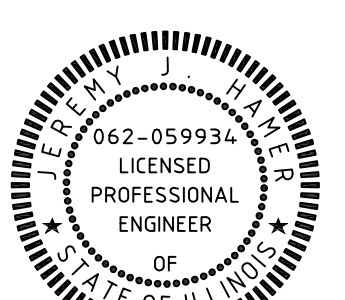
HOUSE COVERAGE = 00.0%  
 DRIVEWAY, PATIO & WALK = 00.0%  
 IMPERVIOUS COVERAGE = 00.0%

HOUSE COVERAGE = 37.1%  
 DRIVEWAY, PATIO & WALK = 12.7%  
 IMPERVIOUS COVERAGE = 49.8%

TO THE BEST OF OUR KNOWLEDGE AND BELIEF; THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF THIS PROJECT OR ANY PART THEREOF. OR THAT IF SUCH SURFACE WATERS DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH WATERS INTO PUBLIC AREAS OR DRAINS WHICH THE SUB DIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF THE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS \_\_\_\_ DAY OF \_\_\_\_ A.D. \_\_\_\_

OWNER OR ATTORNEY \_\_\_\_\_ ENGINEER \_\_\_\_\_



EXPIRES 11-30-11

**SITE IMPROVEMENT PLAN**

**LOPEZ RESIDENCE**

34 OAK AVENUE, HILLSIDE, ILLINOIS

**HAEGER ENGINEERING**

consulting engineers • land surveyors  
 1300 N. Plum Grove Road, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608  
 www.haegerengineering.com

Project Manager: LAK Engineer: J J H Sheet 1  
 Date: 12/08/09 Project No. 09-108

**Benchmarks**

<b>Source Benchmark</b> Village of Hillside Benchmark
Description: Chiseled "X" on upper flange bolt of fire hydrant.
Location: Northwest corner of North Railroad Avenue and Oakridge Avenue.
Elevation: 658.41 (USGS)
<b>Site Benchmark</b> HE CP #110
Description: Cross notch in curb.
Location: On east curbline of Oak Avenue, across the street from Lot 6, approximately 75' south of centerline of Harrison Street.
Elevation: 663.81 (USGS)

**VILLAGE OF HILLSIDE CONSTRUCTION CODE SEWER TAP SPECIFICATIONS 2008**

- SEWER CONNECTIONS TO THE VILLAGE MAIN MUST BE MADE WITH A SADDLE TYPE SEWER SERVICE "T" OR FLOW DIRECTIONAL WYE. THE VILLAGE'S EXISTING SANITARY SEWER MAIN MUST NOT BE DISTURBED.
- POINT OF CONNECTION BETWEEN NON-JOINTED MATERIALS REQUIRE NON-SHEAR MISSION COUPLINGS.
- A CEMENT COLLAR IS REQUIRED IN ADDITION TO NON-SHEAR MISSION COUPLINGS AT POINT OF CONNECTION FOR DISSIMILAR MATERIALS.
- THE SEWER SERVICE LINE MUST BE 4" IN DIAMETER FOR RESIDENTIAL AND 8" FOR COMMERCIAL PROPERTIES. THE SEWER MUST BE INSTALLED AT LEAST 18" BELOW OR 10" LATERALLY FROM THE WATER SERVICE LINE.
- ACCEPTABLE MATERIALS INCLUDE: CAST IRON, DUCTILE IRON OR POLY VINYL CHLORIDE SDR26.
- IF SDR26 PVC PUSH JOINT SEWER PIPE IS USED IT MAY START FROM A POINT 5' OUTSIDE THE FOUNDATION WALL. NO SCHEDULE PIPE BELOW THIS SPECIFICATION IS ALLOWED.
- A MINIMUM OF 6" OF SAND, F#6 OR APPROVED BACKFILL MUST BE USED AS BEDDING FOR THE SEWER SERVICE LINE.
- A MINIMUM DRAIN SLOPE OF 1/2" PER FOOT MUST BE MAINTAINED FOR SEWER PIPES.
- FOR COMMERCIAL PROPERTIES AN INSPECTION MANHOLE MUST BE INSTALLED OUTSIDE THE PROPOSED FACILITY AS PER MWRD REQUIREMENTS. A STRAIGHT 6" "T" CLEAN-OUT MUST BE INSTALLED AT LEAST 5'-10' (FEET) AWAY FROM THE FOUNDATION WALL FOR RESIDENTIAL HOUSES.
- THE TRENCH FOR THE SANITARY SEWER SERVICE LINE MUST BE KEPT AWAY FROM THE FUTURE DRIVEWAY AREA AND CONCRETE FRONT STOOP AREA.
- ALL TAPS, CONNECTIONS AND LOCATIONS MUST BE INSPECTED BY THE HILLSIDE PUBLIC WORKS DEPARTMENT PRIOR TO BACKFILLING.
- ALL WATER SERVICE LINES MUST BE INSTALLED AT LOCATIONS WELL AWAY FROM FUTURE DRIVEWAY AREAS, CONCRETE STOODS AND COURTESY WALKS.
- ABANDONMENT OF SERVICE. SEE VILLAGE CODE SEC. 22.203.1
- ALL STREET EXCAVATIONS MUST BE BACKFILLED IN ACCORDANCE WITH THE I.D.O.T. STANDARDS FOR TRENCH BACKFILL AND SURFACE REPAIR. ALL STREETS MUST BE TEMPORARILY PATCHED WITH COLD MIX ASPHALT UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REPAIRED. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE HILLSIDE POLICE, FIRE DEPARTMENT AND PUBLIC WORKS DEPARTMENT OF ANY COMPLETE OR PARTIAL STREET CLOSINGS.
- INSPECTION REQUESTS AND QUESTIONS REGARDING THE ABOVE SPECIFICATIONS SHOULD BE REFERRED TO THE HILLSIDE PUBLIC WORKS DEPARTMENT AT 708-202-3434.

**VILLAGE OF HILLSIDE CONSTRUCTION CODE WATER TAP SPECIFICATIONS 2008**

- A FULL FACE, STAINLESS STEEL TAPPING SLEEVE MUST BE USED TO CONNECT TO THE EXISTING WATER MAIN. DIRECT TAPS ARE NOT ALLOWED.
- A MUELLER 300 BALL (FLARE TYPE) CORPORATION STOP IS TO BE INSTALLED ON THE TAPPING SLEEVE.
- 1"-2" TYPE "K" COPPER TUBING IS TO BE INSTALLED AS THE NEW WATER SERVICE LINE
- A 1"-2" MUELLER 300 BALL CURB VALVE COMPRESSION OR FLARE TYPE ROUNDWAY/CURB STOP IS TO BE INSTALLED AT A LOCATION TWO TO FOUR FEET (2'-4") AWAY FROM THE BACK OF CURB AND IS TO BE LOCATED IN THE VILLAGE PARKWAY.
- THE ROUNDWAY/CURB STOP IS TO BE HOUSED IN A 2 1/2" DIAMETER TYLER 95E ADJUSTABLE SADDLE TYPE SERVICE BOX AND MUST BE LOCATED IN THE VILLAGE PARKWAY.
- THE SERVICE LINE MUST BE INSTALLED UNDERGROUND IN THE BASEMENT AREA. SERVICE LINES UNDER THE CRAWL SPACE WILL NOT BE ALLOWED TO BE EXPOSED.
- A PLUMBING SPREAD MUST BE SUPPLIED WITHIN A HEATED ARE TO ALLOW THE PROPER INSTALLATION OF THE SPECIFIED WATER METER.
- GATE OR BALL TYPE SHUT-OFF VALVES SHALL BE INSTALLED ON EACH SIDE OF THE WATER METER.
- THE WATER METER AND SHUT-OFF VALVES SHALL BE LOCATED IN AN ACCESSIBLE AREA FOR FUTURE MAINTENANCE.
- ALL TAPS, CONNECTIONS, AND LOCATIONS MUST BE INSPECTED BY THE HILLSIDE PUBLIC WORKS DEPARTMENT PRIOR TO BACKFILLING.
- THE WATER SERVICE LINE SHALL BE INSTALLED AT LEAST 18" ABOVE OR 10" LATERALLY FROM THE SANITARY SEWER LINE.
- ALL WATER SERVICE LINES MUST BE INSTALLED AT LOCATIONS WELL AWAY FROM FUTURE DRIVEWAY AREAS, CONCRETE STOODS AND COURTESY WALKS.
- ABANDONMENT OF SERVICE. SEE VILLAGE CODE SEC. 22.203.1
- ALL STREET EXCAVATIONS MUST BE BACKFILLED IN ACCORDANCE WITH THE I.D.O.T. STANDARDS FOR TRENCH BACKFILL AND SURFACE REPAIR. ALL STREETS MUST BE TEMPORARILY PATCHED WITH COLD MIX PATCH UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REPAIRED. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE HILLSIDE POLICE, FIRE DEPARTMENT AND PUBLIC WORKS DEPARTMENT OF ANY COMPLETE OR PARTIAL STREET CLOSINGS.
- INSPECTION REQUESTS AND QUESTIONS REGARDING THE ABOVE SPECIFICATIONS SHOULD BE REFERRED TO THE HILLSIDE PUBLIC WORKS DEPARTMENT AT 708-202-3434.

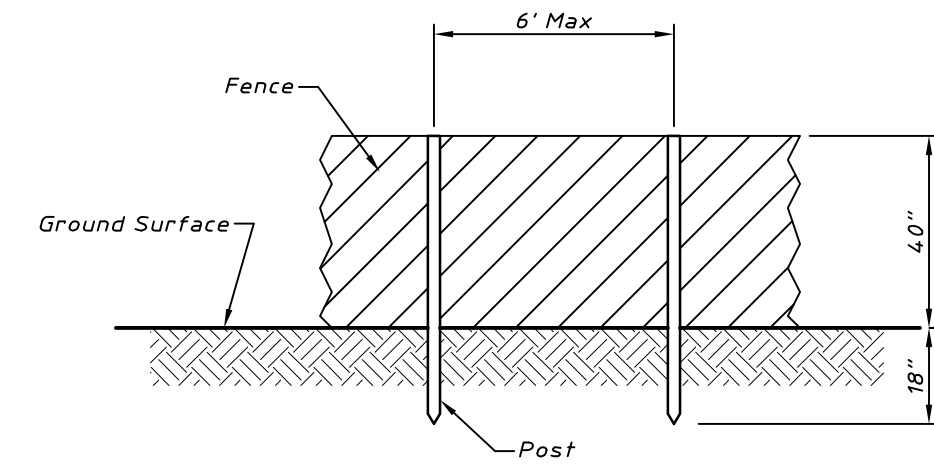
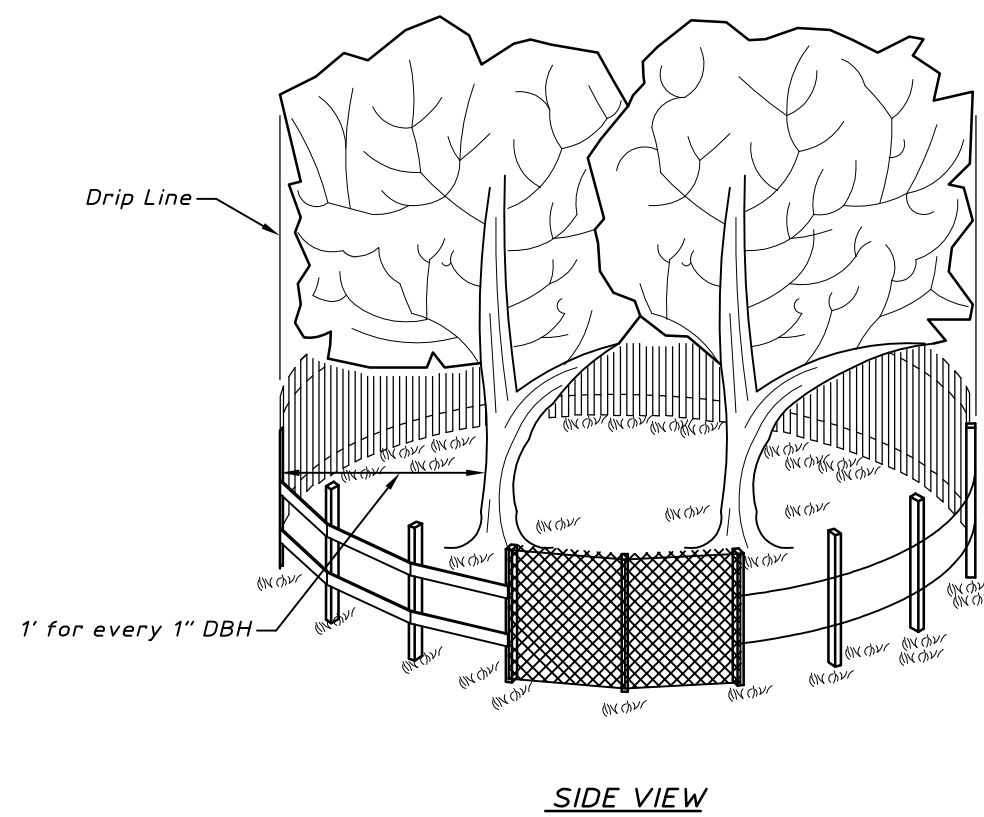
**LEGAL DESCRIPTION:**  
 LOT 6 IN BOEGER'S SUBDIVISION, BEING A SUBDIVISION IN PART OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 3, 1909 AS DOCUMENT NO. 4478187, IN COOK COUNTY, ILLINOIS.



Know what's below.  
 Call before you dig.

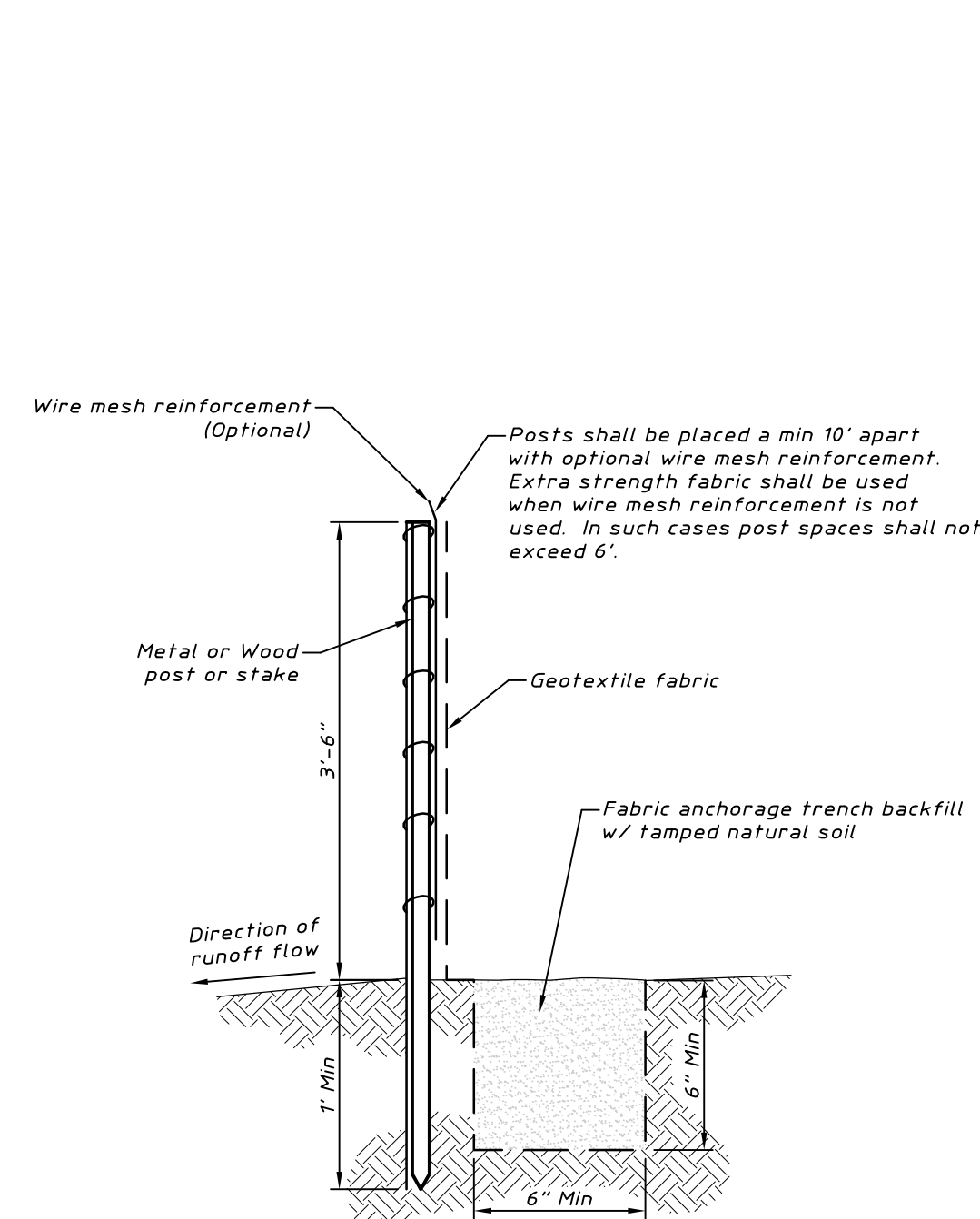
Note: Call 811 at least 48 hours, excluding weekends and holidays, before you dig.





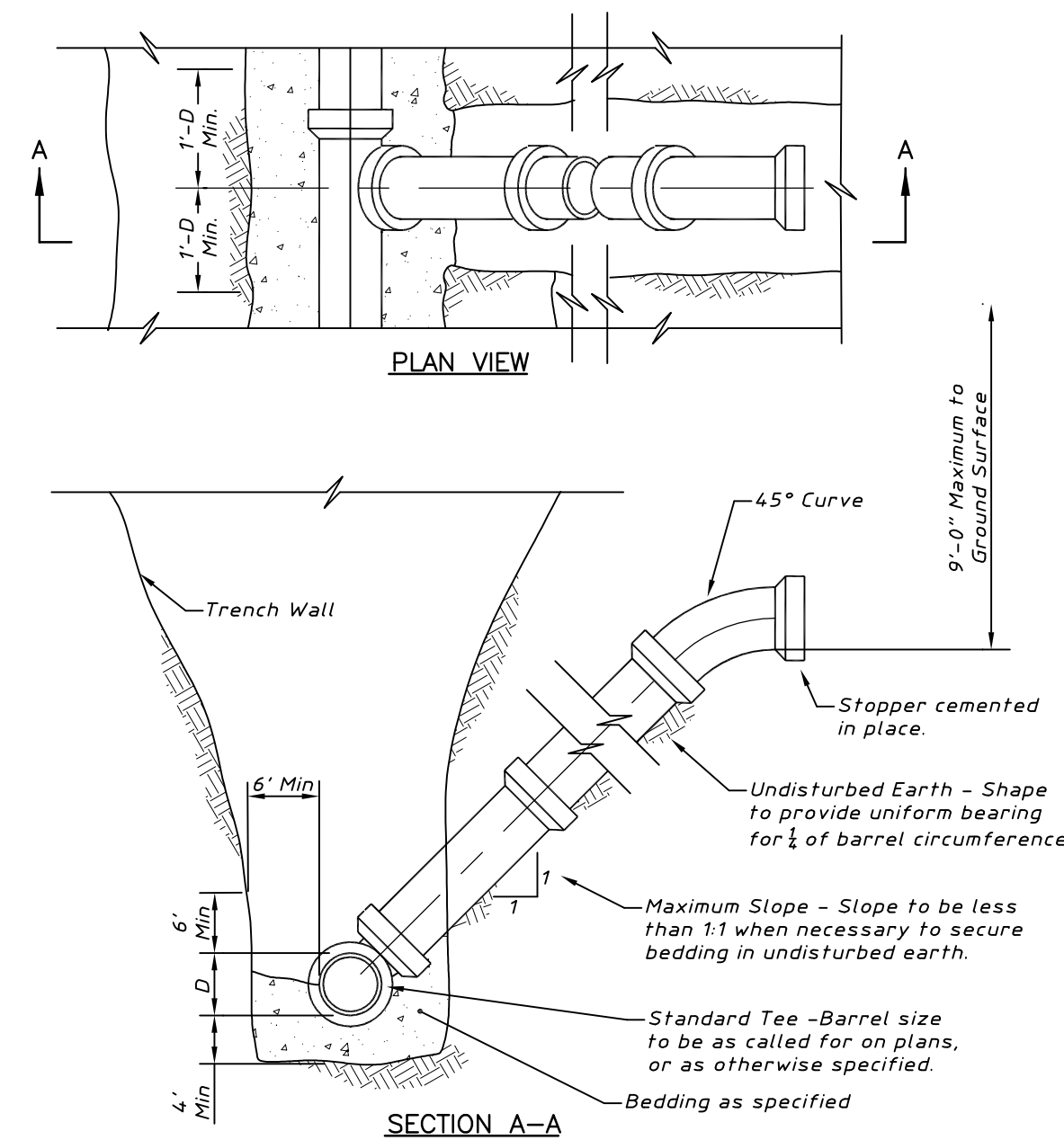
- NOTES:**
- The fence shall be located outside the drip line of the tree to be saved and in no case closer than 1 foot for every 1" DBH to the trunk of any tree.
  - Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in..
  - The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer.

**TREE PROTECTION - FENCING**



NOTES: Depending upon configuration, attach fabric to wire mesh w/ hog rings, steel posts w/ tie wires, wood posts w/ nails.

**SILT FENCE**



Note: Riser to be constructed in lieu of wyes where sewer depth exceeds 12'-0". For pipe material and concrete see specifications.

**SANITARY SERVICE TYPICAL RISER DETAIL**

**Drain Basins**

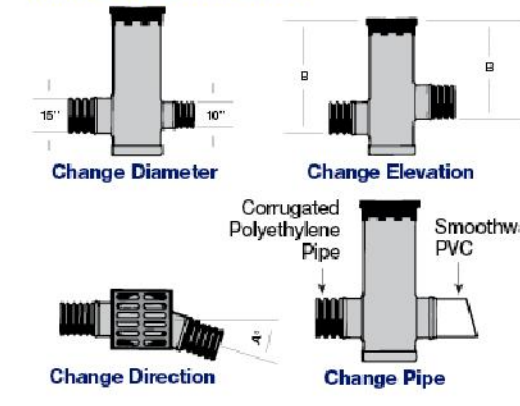


HOW DO YOU BUILD A PART NUMBER? See page (24) for Drain Basins

A riser will be supplied with manholes over 84"

Part#/Prefix	Product Description	Available Outlets
2830AG_X	8" Standard Basin	4" thru 8"
2830AG_X	10" Standard Basin	4" thru 12"
2830AG_X	8" Custom Basin	4" thru 8"
2830AG_X	10" Custom Basin	4" thru 10"
2830AG_X	12" Custom Basin	4" thru 12"
2830AG_X	14" Custom Basin	4" thru 14"
2830AG_X	16" Custom Basin	4" thru 16"
2830AG_X	24" Custom Basin	4" thru 24"
2830AG_X	30" Custom Basin	4" thru 30"

When are Drain Basins Used?

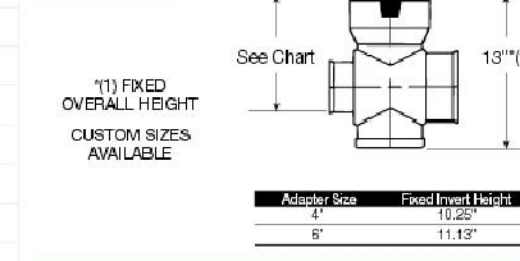


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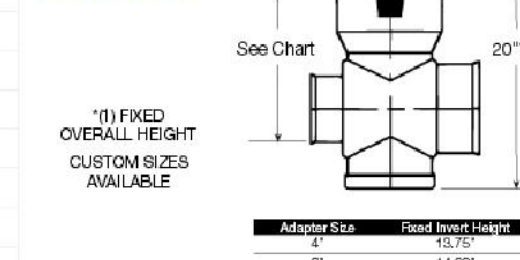
**8" & 10" Drain Basins**

Part#/Prefix	Product Description	Available Outlets
2810AG_X	8" Standard Basin	4" thru 8"
2810AG_X	10" Standard Basin	4" thru 10"
2810AG_X	8" Custom Basin	4" thru 8"
2810AG_X	10" Custom Basin	4" thru 10"

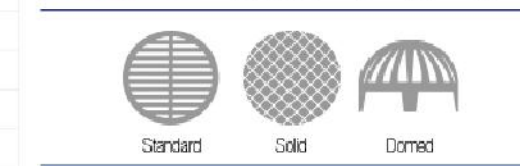
8" Drain Basin



10" Drain Basin



8" & 10" Grate Options



9

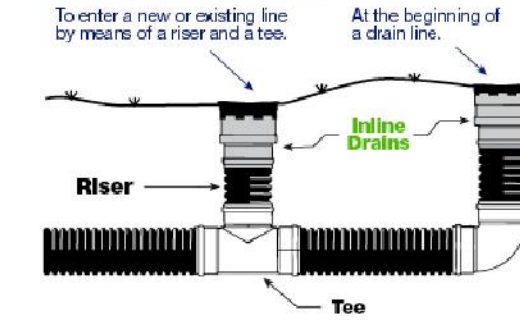
**Inline Drains**



HOW DO YOU BUILD A PART NUMBER? See page (24) for Inline Drains

Part#/Prefix	Product Description	Available Outlets
2708AG_X	6" Inline Drain	4" thru 8"
2708AG_X	12" Inline Drain	4" thru 12"
2708AG_X	15" Inline Drain	4" thru 15"
2708AG_X	18" Inline Drain	4" thru 18"
2708AG_X	24" Inline Drain	4" thru 24"
2708AG_X	30" Inline Drain	4" thru 30"

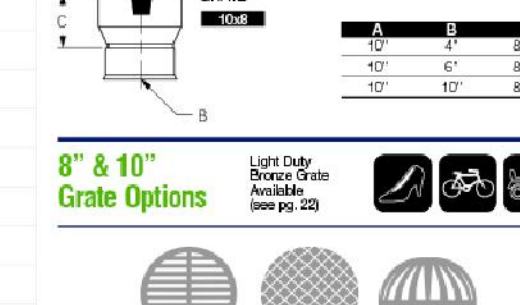
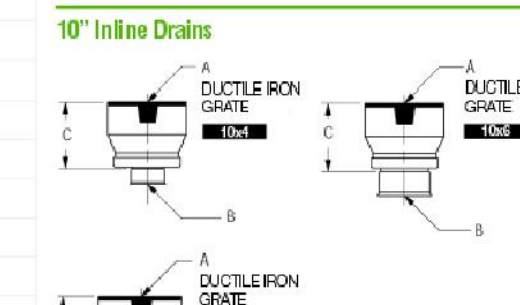
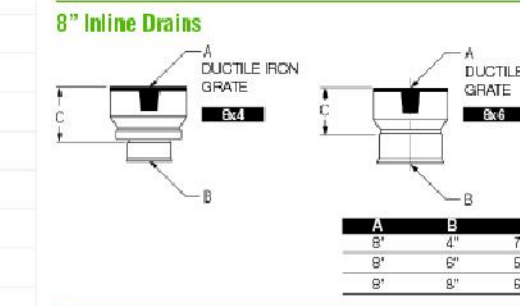
When are Inline Drains Used?



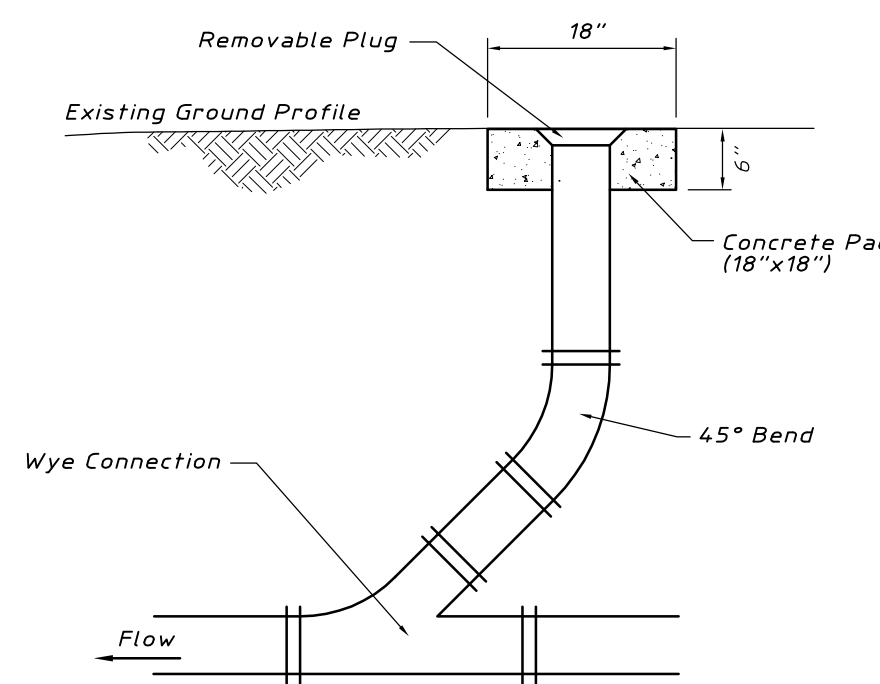
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**8" & 10" Inline Drains**

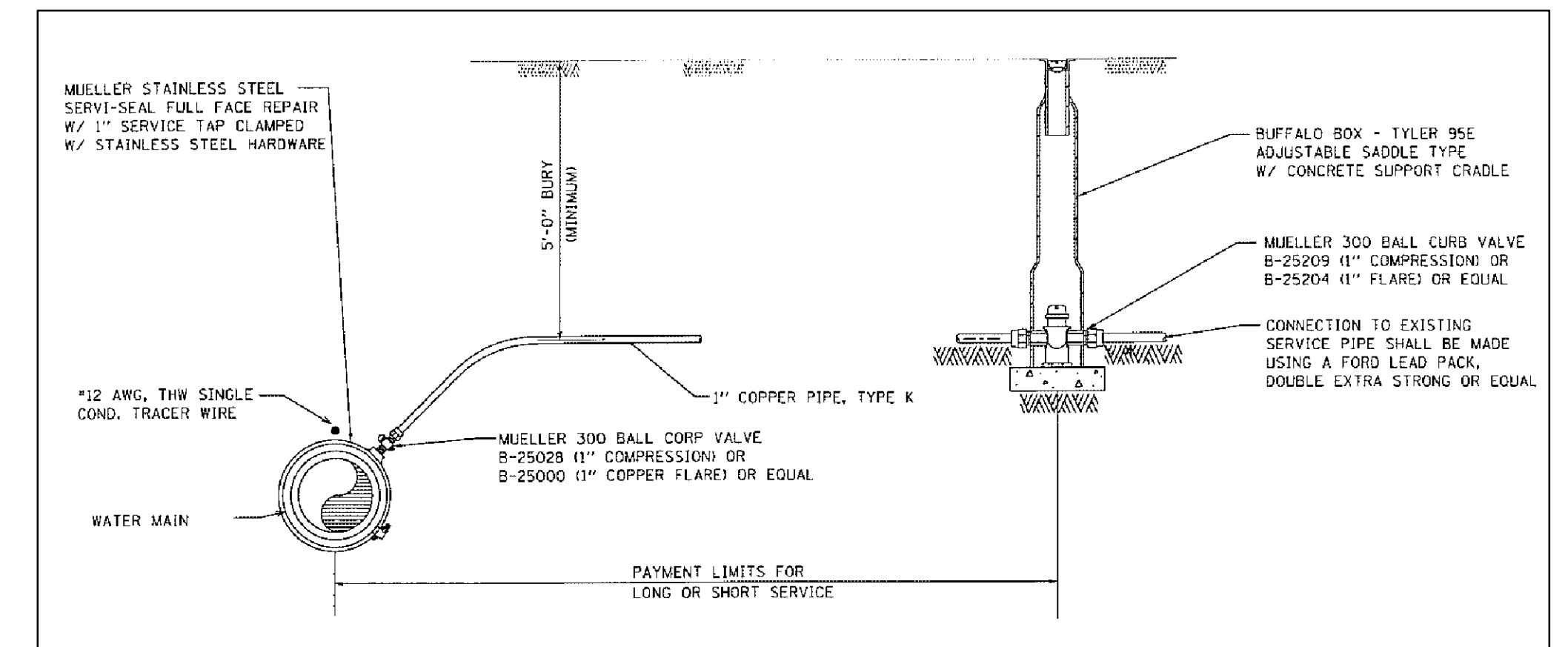
Part#/Prefix	Product Description	Available Outlets
2708AG_X	8" Inline Drain	4" thru 8"
2708AG_X	10" Inline Drain	4" thru 10"



3



**CLEANOUT DETAIL**



**VILLAGE OF HILLSIDE WATER SERVICE DETAIL**