**LEGISTAR: 250141** DISTRICT: 3

## **VILLAGE OF LOMBARD** REQUEST FOR BOARD OF TRUSTEES ACTION

For Inclusion on Board Agenda

X	Resolution or Ordinance (Blue) Recommendations of Boards, Commother Business (Pink)	Waiver of First Requested missions & Committees (Green)
то:	PRESIDENT AND BOARD OF TR	RUSTEES
FROM:	Scott Niehaus, Village Manager	
DATE:	April 1, 2025 (COW) ( <u>B of</u>	<u>f T</u> ) <b>Date:</b> April 17, 2025
TITLE:	South Lombard Elevated Storage Ta Support Services	ank - Design/Build Professional Engineering
SUBMITTED BY:	Carl Goldsmith, Director of Public	Works 9
	OLICY IMPLICATIONS:	V
million gallon water Selection (QBS) proc & Woodman Engin guaranteed maximum  FISCAL IMPACT/ Project Number: WA Contract Amount: \$ WSCapRsvel Rebuild IL G	r tower located along Butterfield R curement strategy for the project. The eering, Boller Construction and CE in price (GMP) for the porjet of \$11,14  FUNDING SOURCE: A 21 10	\$3,149,637.00
Finance Director X_	/):	Date
NOTE:	All materials must be submitted to a Manager's Office by 12:00 noon, W	

Distribution.

AGENDA.DOC



## April 1, 2025

To:

Village President and Board of Trustees

Through:

Scott Niehaus, Village Manager

From:

Carl Goldsmith, Director of Public Works

Subject:

South Lombard Elevated Water Tower Design Build

**Professional Engineering Services** 

The Village of Lombard owns and operates a water distribution system that serves more than 15,000 water customers, representing a population of over 45,000. The potable water system consists of two (2) primary pressure zones. The low-pressure zone generally located north of Roosevelt Road (IL Route 38) and the high-pressure zone located south of Roosevelt Road.

The Village receives water from the DuPage Water Commission (DWC) through four transmission mains ranging in size from 12" to 60". The Village distributes roughly 3.59 million gallons of water on a daily basis. The Village anticipates the demand to increase based upon significant residential growth near the Yorktown Mall on the south end of Lombard.

The Village completed Water Network Analyses (2001 and 2012) that looked wholistically at the Village's water system. The analyses provided recommendations for the operation of the water system, as well as capital improvements to enhance and modernize the system. As a result of the network analyses, the Village has included the construction of an additional elevated water tower on the south end of Lombard in the 10-year Capital Improvement Plan (CIP). The Village had previously planned on constructing the tower on a parcel on Eisenhower Lane. Based upon preliminary engineering studies, the Village determined that the Butterfield Road corridor was a more suitable location for the elevated storage facility. The Village sold the Eisenhower Lane site and purchased a parcel on the former Northern Baptist Seminary site along Butterfield Road, just east of Yorktown Mall.

The need for the tower arises out of requirements for storage capacity imposed by the DuPage Water Commission, as well as the significant population growth on the south end of Lombard. To address the Village's deficient potable water storage capacity, as well as increased demand in the southern section of Lombard, additional water storage is needed within the high-pressure zone. Therefore, this Village plans to construct the South Lombard Elevated Storage Tank of 1,500,000 gallons, located on the Village owned parcel along Butterfield Road.

The Village determined that the most effective method for the construction of the tower is the design-build method of procurement for the design and construction of the 1.5-million-gallon water tower located along Butterfield Road. The design-build process streamlines construction projects by having a single entity, the design-build team, handle both design and construction under one contract, leading to better collaboration and potentially faster project completion. In design-build construction, the Village enters into a single contract to cover both the engineering design services and the construction of the tank, streamlining the collaboration, communication,

and coordination process. Throughout the entire building process, the Village has a single point of contact for questions and collaborative input.

The Village used the Qualification Based Selection (QBS) procurement strategy for the project. The Village selected the design build team of B&W/Boller Design Build in conjunction with CB&I for the project. Since the time that it was determined that the most qualified firm to provide these services was the design team of B&W/Boller Design Build in conjunction with CB&I, staff has been working with the design time to refine the scope of the project and ultimately agree on a guaranteed maximum price (GMP). The Village has received the attached contract with a (GMP) for the project of \$11,149,637.00.

In addition to the construction of the tank, the Village has been working with the DuPage Water Commission on the design and construction of a joint pressure adjusting station/metering station that will be built on the site. It is anticipated that the tank construction will be completed in Fall 2027 and that the tank will be operational in early 2028.

The proposal from B&W/Boller Design Build in conjunction with CB&I is enclosed for reference. This work will be performed for a not-to-exceed fee of \$11,149,637.00. The funding of the project comes from a Rebuild Illinois Grant in the amount of \$4,250,000 and funds from the Water & Sewer Capital Reserve Fund.

Staff recommends that the Village President and Board of Trustees approve a Resolution Authorizing the Village President and Clerk to execute a contract with B&W/Boller Design Build in conjunction with CB&I for the design and construction of the South Lombard Elevated Water Tower in the amount not to exceed \$11,149,637.00. Funding for the project will be through various funding sources that include:

WSCapRsveFd (Account #520.790.715.75420) \$3,149,637.00 Rebuild IL Grant (Account # 416.710.118.75420) \$4,250,000.00 Butterfield TIF (Account #443.740.743.75570) \$3,750,000.00

Enclosed please find a resolution, contract, scope of services and the fee schedule for the design and construction of the South Lombard Elevated Water Tower. Please present this resolution and contract to the President and Board of Trustees for their review at their regular meeting of April 17, 2025.

## RESOLUTION R 25

## A RESOLUTION AUTHORIZING SIGNATURE OF PRESIDENT AND CLERK ON AN AGREEMENT

WHEREAS, the Corporate Authorities of the Village of Lombard have received an Agreement between the Village of Lombard, and B&W/Boller Design Build in conjunction with CB&I regarding the South Lombard Elevated Water Tower project, professional engineering services as attached hereto and marked Exhibit "A"; and

**WHEREAS**, the Corporate Authorities deem it to be in the best interest of the Village of Lombard to approve such agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS as follows:

**SECTION 1:** That the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said agreement as attached hereto.

**SECTION 2:** That the Village Clerk be and hereby is authorized to attest said agreement as attached hereto.

Adopted this	_day of	, 2025.	
Ayes;			
Nays:			
Approved this	_ day of	, 2025.	
		Keith Giagnorio Village President	
ATTEST:		,gc	
Elizabeth Brezinski Village Clerk			



- 2. Remove Asphalt pavement.
- 3. Remove Concrete curbing.
- 4. Remove existing concrete structures 1' below grade. Removal of existing structure foundations discovered below 1' below-grade are not included.
- 5. Dispose of excess and unsuitable soil, and other materials on property approx. 200' north of lot.
- 6. Required structure excavation.
  - 1. Excavate for installation of footings and interior slab.
  - 2. Excavate Area for Laydown Area.
  - 3. CA-1 placed on Fabric with CA-6 top for laydown area.
  - 4. Excavate for concrete area.
  - 5. Granular backfill as necessary.
    - 1. Backfilling tank ring wall exterior (compacted excavated material or fill).
    - 2. Backfilling tank ring wall interior (compacted crushed stone).
  - 6. Dispose of excess and unsuitable soil, and other materials on property approx. 200' north of lot.
- 7. Elevated Tank foundation and floor construction (augercast piles).
  - 1. Includes pile cap supported on 106 augercast piles.
  - 2. Slab-on-grade floor with frame and grate.
  - 3. Pile load tests and concrete testing included.
- 8. Furnish & install 1.5 MG elevated tank including:
  - 1. 1.5MG x 145' TCL Waterspheroid Elevated Water Storage Tank.
  - 2. (2) 16"ø CS Expansion Joints.
  - 3. 16"ø Inlet, Outlet Dual Riser.
  - 4. 16"ø Pipe support Angle w/ U-Bolt.
  - 12"ø Overflow CS Std Wt, Mitered Elbows, Angle Pipe Supports w/ U-Bolts (12' O.C.).
  - 6. 36" x 80" Commercial Access Door.
  - 7. 20'ø x 42" High Standard Handrail (Angle).
  - 8. G29 Aluminum Vent w/ 24" Venting Manway.
  - 9. (3) Antenna Provisions Included.
  - 10. 60"ø Access Tube.
  - 11. Lad-Saf Galvanized Safety Climb on all Ladders.
  - 12. Supply Pax Mixing System (PWM500 V3) for install by others.
  - 13. Supply anchor bolts for install by others.
  - 14. Painting:
    - 1. Field Paint per CBI standard specifications.
    - 2. Tnemec Paint System: Shop Primed, 3 coat ext area, 3 coat wet area, 3 coat dry area per CBI standard specifications.
    - 3. Sterilization of tank (Method 3).
    - 4. Containment.
    - 5. Logos.
  - 15. <u>Note:</u> For safety reasons, this proposal assumes that no entities outside of the Baxter & Woodman/Boller Construction LLC. umbrella will be permitted to access

8678 Ridgefield Road, Crystal Lake, IL 60012 • 815.459.1260



March 26, 2025

Mr. Carl Goldsmith Director of Public Works Village of Lombard 255 E. Wilson Avenue Lombard, Illinois 60148

Subject:

PROPOSAL: Village of Lombard - South Lombard Elevated Storage Tank Design-

**Build Project** 

Dear Mr. Goldsmith:

The South Lombard Elevated Storage Tank project is crucial for the Village as it addresses both current and future storage needs, providing reliable service for residents and businesses. As an established design-build entity since 2015, Baxter & Woodman/Boller Construction, LLC has the proven track record needed to construct the new elevated storage tank to meet your schedule and budget.

Baxter & Woodman/Boller Construction, LLC. is pleased to provide a design-build price proposal for the South Lombard Elevated Storage Tank Project.

Design-build delivery offers the following benefits to this project:

- Lump Sum price before the project is kicked off meaning no change orders for the Village.
- Reduces project schedule by ~40% by allowing long lead-time equipment to be ordered immediately and construction to begin while project details are being finalized while waiting for equipment to arrive on-site.
- Reduces engineering costs significantly by eliminating bidding level plans and specifications, eliminating the formal bidding process, and allowing design and construction engineering to occur simultaneously.

## **WORK OVERVIEW & SCOPE**

The detailed project scope for this project is included below. Additional scope information is included in Appendix A.

## 1. Base Scope:

- 1. General Condition & Mobilization.
- 2. Temporary facilities and controls (Toilet, Trailer, Electricity).
- 3. Temporary fencing.
- 4. Silt fence (south, east, and west).
- 5. Site preparation, rubble relocation, and erosion control.
  - 1. Remove debris and soils to level grade in preparation of excavation.



the site during construction of the elevated tank. Access to site will be limited during painting of the elevated tank.

- 9. Furnish & install approx. 80 LF of 16" DI yard piping.
  - 1. Provide and install pipe into tower base up to first flange.
  - 2. Including reducers and fittings as needed.
- 10. Furnish & install approx. 170 LF of 8" DI yard piping to connect to existing 6" watermain in the Village's system.
  - 1. Including reducers and fittings as needed.
- 11. Furnish & install approx. 485 LF of 12" watermain to connect to existing 10" watermain in the Village's system.
  - Includes horizontal directional drilling (HDD) of pipe under existing wetland (as required), vault with pressure connection and water valve, and reducer/fittings as needed.
  - 2. Includes restoration of lawns, pavement, sidewalks, and curb and gutter as needed.
- 12. Furnish & install thrust blocking at bends.
- 13. Furnish & install water hydrant.
- 14. Furnish & install 16" gate valve in vault.
- 15. Granular backfill pipe trenches as necessary.
- 16. Chlorination of tank and piping (including pressure testing).
- 17. Site grading & restoration.
  - 1. Provide and Install Pulverized black dirt as necessary.
  - 2. Provide and Install Hydro Seeding as necessary.
  - 3. Provide and Install erosion blanket as necessary.
- 18. Concrete driveway.
- 19. Approx. 720 LF of 7' high chain link fence.
  - 1. Double gate at driveway entrance to elevated tank site.
  - 2. Includes double gate at access point of future Pressure Adjusting Station.
- 20. Miscellaneous painting as required.
- 21. Required electrical work:
  - 1. Furnish and install (1) 800A 277V/480V electrical service with (2) breakers:
    - 1. (1) 100A breaker & feeder for the water tower.
    - 2. (1) 600A breaker for future DWC PAS structure (breaker only, and conduit stub for future extension).
  - 2. Furnish and install 100A underground feeder to lighting panel in the water tower.
  - 3. Furnish and install of (1) 100A power panel inside the tower.
  - 4. Furnish and install tank interior lighting and receptacles within tower base.
  - 5. Furnish and install conduit, cabling and connections for the following SCADA Components:
    - 1. (1) SCADA Panel
    - 2. (3) Pressure Transmitters
    - 3. (2) Flow Meters
    - 4. (2) Limit Switches



- 6. Furnish and install (4) Double Obstruction Lights at the top of the tower.
- 7. Furnish and install (3) 2" PVC Conduit Sleeves outside of tank foundation for future use.
- 8. Excavation for electrical conduits.
- 9. Furnish and install of grounding around tower base (assumes CB&I will provide grounding tabs).
- 10. Install and power PAX Water Mixer (PWM500 V3) provided by CB&I.
- 22. Required instrumentation work:
  - 1. Provide one (1) fully assembled SCADA panel with Allen-Bradley PLC and radio.
  - 2. Provide three (3) ABB Pressure Transducers with manifolds.
  - 3. Provide two (2) ABB 8" Magnetic Flow Meters
  - 4. Provide two (2) Limit Switches for hatch intrusion detection.
  - 5. Includes project management, labor, "for construction" design, antenna installation, startup, commissioning, and training.
- 23. Design and construction engineering.
- 24. Program, integrate, and test SCADA.
- 25. Performance/payment bond and insurance.

## 2. Items to be provided by Owner:

- 1. Water for construction and testing.
- 2. Permit fees.
- 3. Tree removal as required.
- 4. Gravel access road from Butterfield Road Lot 2.
- 5. Underground utility relocation and abandonment.
- 6. Relocation of utilities to remain in service.

## **DESIGN-BUILD COST PROPOSAL**

The lump sum price for this design build proposal including installation and construction, design and construction engineering, and SCADA programming is in the table below, on a lump sum basis. A cost breakout by trade can be provided by request.

Total Lump Sum D-B Price	\$11,149,637
Suggested Owners Contingency <sup>1</sup>	\$500,000

<sup>1</sup>Owners contingency can only be utilized upon specific approval and direction from Owner for additional desired work that may be discovered during the course of the project. Owners contingency is not included in the total lump sum price in this proposal.

When the Village decides to move forward, we will finalize a full project schedule and design-build lump sum contract. Prices in this proposal are valid for 90-days after proposal date.



We are excited by this opportunity and available to begin immediately. Should you have any questions about our proposal, please feel free to contact Design-Build Project Manager Chuck Brunner, PE, SE at (815) 444-3210 or cbrunner@baxterwoodman.com. We are ready to begin!

Sincerely,

BAXTER & WOODMAN / BOLLER CONSTRUCTION LLC.

Ambox

John V. Ambrose, PE

Principal

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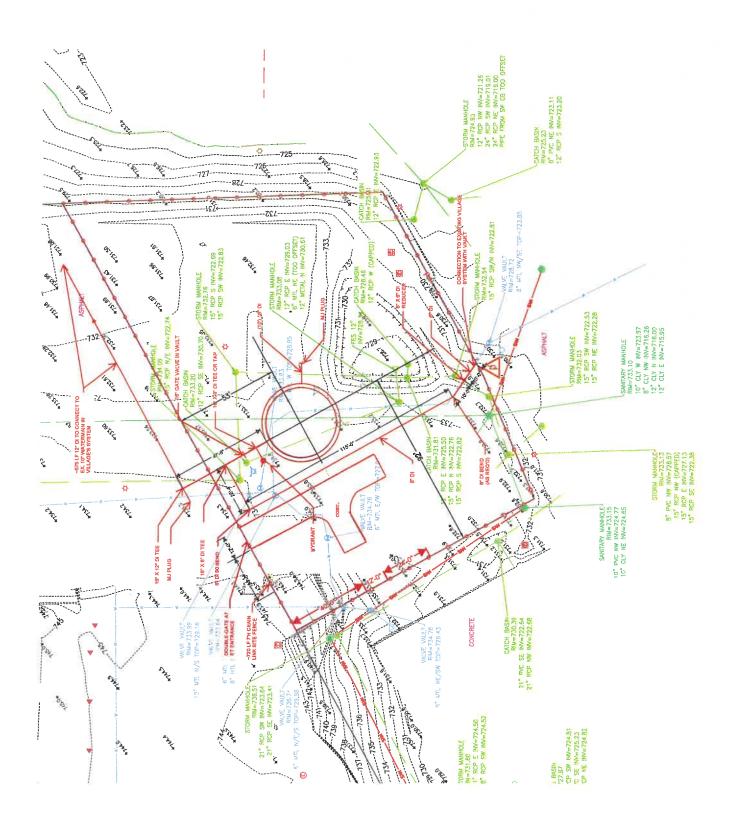
Lombard

Elevated Storage

Tan\00-Design-Build\01-Project

Management\Price

# APPENDIX A ADDITIONAL SCOPE INFORMATION



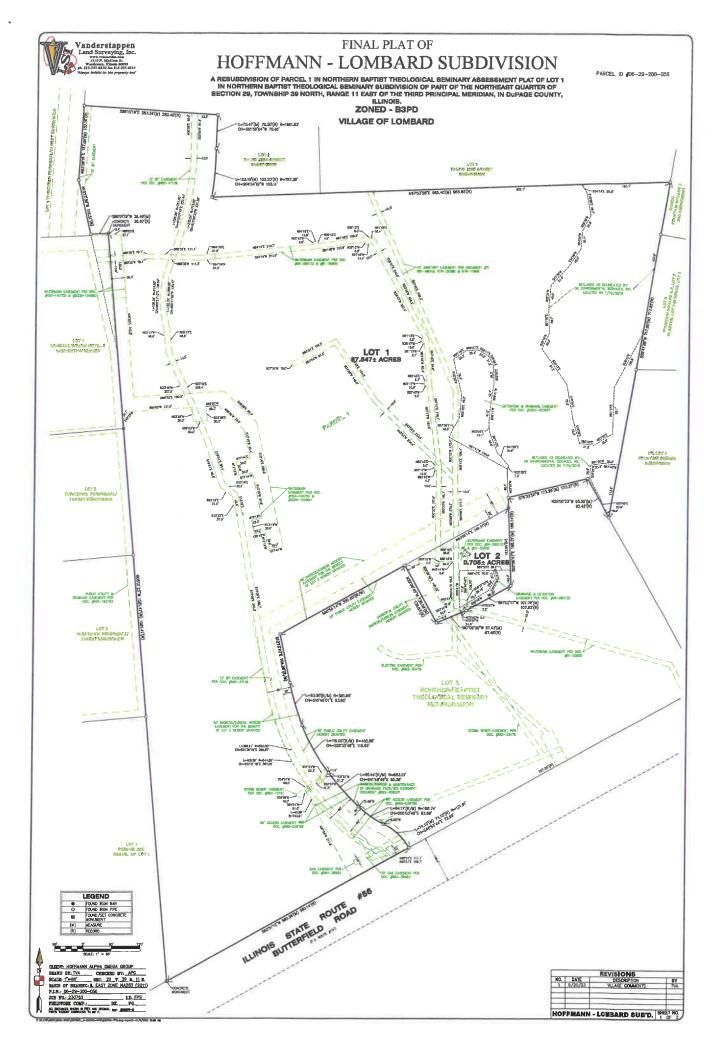
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A YYYYAMAOD
UR DATE DESCRIPTION

PROJECT NUMBER 60728919

4 OF XX





## FINAL PLAT OF

## **HOFFMANN - LOMBARD SUBDIVISION**

A RESUBDIVISION OF PARCEL 1 IN NORTHERN BAPTIST THEOLOGICAL SEMINARY ASSESSMENT PLAT OF LOT 1 IN NORTHERN BAPTIST THEOLOGICAL SEMINARY SUBDIVISION OF PART OF THE NORTHEAST QUARTER OF SECTION 29, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIOL PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS.

ZONED - B3PD VILLAGE OF LOMBARD

VILLAGE BOARD OF TRUSTEES CERTIFICATE

COHFORA	TE CHANGERS CERTIFICATE
STATE OF I	I PORT
COUNTY OF	22(
	witify that act of the plot hereon drawn and shown hereon as subdivided; that cursed end land to be surveyed, subdivided; state and, for the purpose of having this plot recorded provided by low.
	of our knowledge, ofcreeded subdivision resides within the boundary's ring school districts:
ELEMENTAR'S	DUPAGE #502 * SCHOOL DISTRICT #45 IL DISTRICT #88
	there we have hereunder set my our hands of
Seal (s) thi	a day of 2023 A.D.
	President
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STATE OF E	
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State atores personally k	cold, do hereby certify that
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STATE OF IL	LIKOIS )
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The undersit	gned as Mortgagee pursuant to the mortgage dated d as Document No and as modified by Document and recorded on hereby the dedication and plot shown hereon.
No	the dedication and plot shown hereon.
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	on Sincle Banking Corporation.
By:	Attest:
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22 (	
COUNTY OF DUPAGE )	
This is to certify that the Village Boo Bline's, have reviewed and approved to	erd of Trustees of the Village of Lo nie Plat. Dated
this day of	2023 A.D.
Vilago President	-
Viloge Clerk	
VALAGE TREASURER CERTIFICATE	
STATE OF ILLINOIS ) ISS	
COUNTY OF DUPAGE )	
),  Whole, do hereby certify that there a forfelled special assessments or any not been apportioned against the trace	ge Treasurer for the VMoge of Lorn re no delinquent or unpold current deferred installments thereof that i at Included in the plat.
Doted this day of	2023 A.D.
Vilicon Tremsurer	
STATE OF ILLINOIS }	
COUNTY OF DUPAGE )	
This is to certify that, the Community	Development Director of the Villac
Lambard, has reviewed and approved	Development Director of the Villog this Plot.
Dated thisday of	
Dated thisday of Community Development Director	2023 AD.
Doted thisday of  Community Development Director  DUPPAGE COUNTY WATER COMMESSITATE OF ILLENOS )	2023 AD.
Doted thisday of  Community Development Director  DUPPAGE COUNTY WATER COMMISS- STATE OF BLEVOS )  COUNTY OF DUPAGE )  SS	2025 A.D.
Doted thisday of  Community Development Director  DUPPAGE COUNTY WATER COMMISS- STATE OF BLEVOS )  COUNTY OF DUPAGE )  SS	2025 A.D.
Doted thisday of	2025 A.D.  10% CENTENCATE  unity Violar Commission, has review
Lumbord, has reviewed and approved to be depressed to the	2025 A.D.  10% CENTENCATE  unity Violar Commission, has review
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Community Development Director  Community Development Director  DUPPAGE COUNTY WATER COMMESS STATE OF LENGS ) DSS COUNTY OF DUPPAGE (COUNTY OF DUPPAGE CO  and opported this Rid.  Dated this	2025 A.D.  10% CENTENCATE  unity Violar Commission, has review
Deted this	2025 A.D.  SON CESTISPOATE  Lunty Wolfer Commission, has review 2023 A.D.  ASSEMBLAT PRIORISIONS

their respective homes as excessors, and parigins, jointy and enventing to relate the terms as excessors, and parigins, jointy and enventing to relate the terms are excessors, and parigins, jointy and enventing to relate the terms are excessors, and their parising the terms are excessors, and their parising excessors, and the parising excessors, and their parising excessors, and the pa

COMMONWEALTH EDISON COMPANY,
AMERITECH BLINGS AKA BLINGS BELL TELEPHONE COMPANY,
APPLICABLE CABLE TELEVISION COMPANY,
VILLAGE OF LONGRADO, BRANTESS

The term "Common Dementa" shall have the meaning set forth for such term in the "Condominium Property Act", Chapter 785 ILCS 605/2, as amended from time to time.

The term "continue cree or crees" is defined on a lock percel or eree of reed properly, the beneficial tase and enjoyment of shift) is reserved in whole or can or opportantment to the separately or mediots, percels or crews within the plantand development, even though such be otherwise designated on the glob by farms action of collects, "Common elements" "common or control or control or crews or control or common or control or con

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Covenanta	cend	Restrictions	covering	this Plat	oí	Subdivision	have	been	recorded	03
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THIS PLAT HAS BEE	N SUBMITTED PO	R PRECORDING AN	D PLEASE RETURN
Name:			
Address:			
Other Charles			

писопинта святи	CAT
STATE OF ILLINOIS )	
COUNTY OF DUPAGE )	22

This inst	rument filed for record in the Recor	der's Office of DuPage Count
Minole, o	n this day of	2023, A.D.,
at	_ o'clockN. and recorded as	
Documen	t Number	

## COLINTY CLESION CERTIFICATE

DuPoge County Recorder

STATE OF ILLINOIS ) COUNTY OF DUPAGE )

I, County Clark of BuPage County, Binois, do hereby certify that there are no deliquent general toxes, cellsquent appeal assessments or project current special assessments or project current special assessments opposit or of the land included in the described property. I turnbur certify that I have revealed of statutiony less in connection with the plate.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2023 A.D.

DuPage County Clerk

A Reachdivision of Porcel in Northern Boptist Theological Seminary Assessment Plat of Lat 1 in the Reachdivision of Northern Boptist Theological Seminary Plat of Lat 1 in the Reachdivision of Northern Boptist Theological Seminary Commisto Se North, Ronge in East of the Thaf Philogol Meridice, according to add Assessment Plat thereof recorded August 22, 2007 os Document Northern Seminary (Northern Seminary Commission Commissio

I, further certify, that all regulations encoted by the Mayor and Village Board of Trustees of the Village of Lambord relative to enressed plate have been compiled with its researchion of this Plat of Resubthields.

L further certify, that based upon a review of the Rood Insurance Rate Map (FLRM.) Community Posel Mamber's 1764/S01954, 1794/S01954, 1794/S01934 & 1796/S01934 at 1965/S01934 at 1965/S01

I, further cartify, that iron states or appropriate measure-nation, marks oil lot corners and point of changes in diagrament, are or will be set, as required by the Pict Act (United Revised Statutes 765 ELIS 205/1). All distances are shown in feet and declarate hereof.

Given under my band and seal this 24th., day of August, 2023.

INTORMANTERS MANAGEMENT AND DETERMINE MAGEMENT

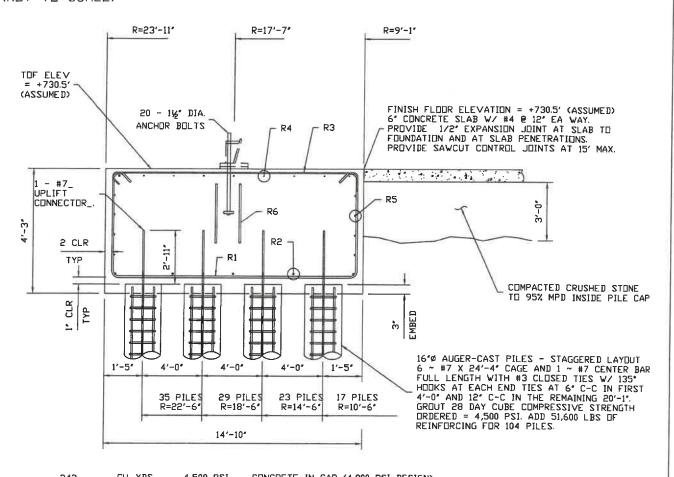
A Sizemulate Sunoquent Exemunt is hereby reserved for and synthet to the Village of Lambard, Sirole with the cream designated on the joid on "Starresetter Management Exemunt Hereby Gentled" for the collection, conveyance, on electron of alternative for the collection, conveyance, and esturge of alternative in a cream to be ministrated by the onner of the left(s) on which the complete started in the control of the control of the left(s) on which the complete started in the control of the collection o

NO.	DATE	REVISIONS BESCRIPTION	BY
1.	9/20/23	VILLAGE COMMENTS	TV
2	11/09/23	ADD CASEMENT PROVISION	TVA
Ξ			

,	CLIENT: HOFFMANN ALPHA ONEGA GROUP
	DRAWN BY: TVA CHECKED BY: APG
	SCALE: 1"-60" SEC. 28 T. 39 P. 11 E.
J	BARDS OF BRANCING: IL EAST ZONE NADRS (2011)
	P.I.N.: 08-29-200-056
ŀ	JOB NO.: 230763 LD. FPS
ı	FIELDWORK COMP : BK PG
	PARTS DECEMP CONNECTED TO ME F.

PREPARED FOR:
HOFFMANN ALPHA ONEGA DEVELOPMENT GROUP, LLC.
2330 HAMMORD DRIVE
SCHALMBURG, ILLINOIS 60173

## TOWER FOUNDATION (NOT TO SCALE)



	242 (0. 103.	4,500 PS1 CUNCRETE IN CAP (4,000 PS1 DESIGN)
22,440 LBS.		A615 GR. 60 REINFORCING IN CAP PLUS HAIRPINS
R1	208 - #9	EQ SPCD - BEND UP WITH 135° HOOKS ON BOTH SIDE AT THE TOP AS SHOWN
R2	16 - #6	CONT - LAP 24" MIN AND STAGGER ADJ LAPS 24" MIN
R3	104 - #5	EQ SPCD - BEND DOWN WITH 135° HOOK ON ONE SIDE AND 90° BEND ON OTHER SIDE AS SHOWN
R4	16 - #6	CONT - LAP 31" MIN AND STAGGER ADJ LAPS 31" MIN
R5	6 - #6	CONT (HALF EA. FACE) - LAP = 24" MIN AND STAGGER ADJ LAPS 24" MIN.
R6	40 - #6	HAIRPINS W/90° HOOKS 2 - HAIRPINS PER ANCHOR BOLT

PILING: 104 ~ 76 TON PILES ~ 16°0 AUGER-CAST PILES - STATIC PILE LOAD TEST REQ'D

PILE GROUT STRENGTH (ORDERED) = 4,500 PSI

PILE CAPACITY TO BE CONFIRMED WITH LOAD TEST TO 152 TONS

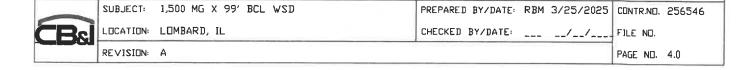
PILE CAPACITY = 152,000 LBS (DL + LL)

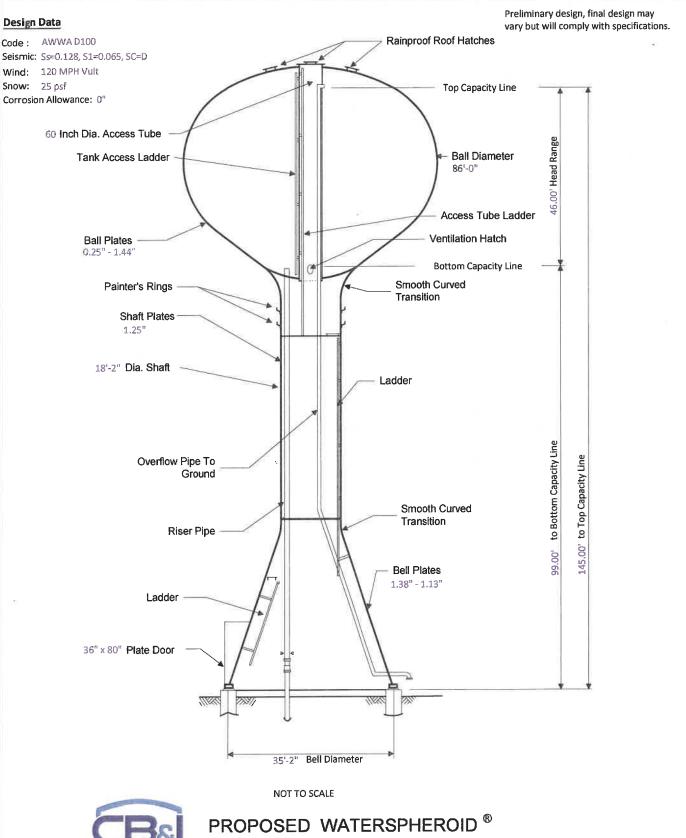
PILE CAPACITY = 202,600 LBS (W/ WIND DR EARTHQUAKE LDAD)

UPLIFT CAPACITY OF PILES = 150 KIPS

PILE TO BEAR AT ELEV +653.5' +/- (PILE LENGTH = 73'-0' FROM TOP OF PILE ELEV +726.5' ASSUMED)

NOTES: ADD FOR FLOOR, PIPE SUPPORTS, SPLASH PAD, VAULT ETC. PER PROJ PLANS AND SPECS
ALL REINFORCING COVER IS TO BE 2" MINIMUM EXCEPT AS NOTED
ARRANGE HOOKS ON PILE CENTER BARS TO NOT INTERFERE W/ ANCHOR BOLTS HAIRPINS







1,500,000 Gallons Capacity

For Village of Lombard

Location Lombard, IL

Date 03/21/25 Estimate No. 256546 Rev B Sheet 1 Made by WJC

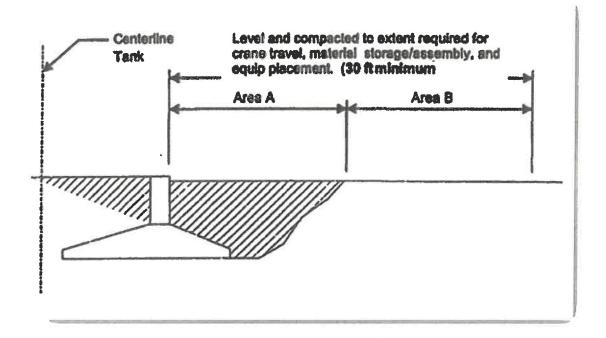


## **Minimum Site Preparation Guidelines for Tank Construction**

The following site preparation requirements are intended to provide a safe working surface for typical CB&I sites. This document is generic in nature to cover all projects. CB&I project manager will provide all job specific item locations. The requirements of the owner's plans and specifications for backfill material and compaction shall govern if they are more stringent than the following requirements. All pipe utility excavations within the immediate tank site should be well compacted to prevent soft spots identical to those specified below.

## Section I - Site Excavation and Backfill

Figure 1: Typical Excavation and Backfill



## Area A

Area A is the area that is excavated, backfilled and compacted during construction of the foundation. Place common backfill material in 8 inch maximum lifts. Compact each lift to achieve a minimum in-place dry density of 100 pounds per cubic foot, or roughly the compaction effort required to attain 90% of Standard Proctor density. Depending on the time of year, location, and elapsed time from completion of foundation to tank erection, conditions may arise that prevent proper placement of backfill such as significant rainfall, winter weather resulting in frozen backfill, and/or uneven settlement over time. Steps should be taken to correct these conditions by the most appropriate means prior to tank erection to avoid unsafe site conditions.

## Area B

Area B is the area undisturbed during construction of the foundation. A determination should be made as to the suitability of this area for construction purposes. In some situations, this may

require the removal of topsoil and organic material. If this area has been disturbed or consists of loose material, soft spots, etc. proof rolling may be required using similar equipment as used for Area A. Common backfill or granular material may be required to attain the desired grade. Place backfill in 8 inch maximum lifts. Compact each lift to achieve a minimum in-place dry density of 100 pounds per cubic foot, or roughly the compaction effort required to attain 90% of Standard Proctor density.

## Section II - Grade

Crane capacity, and in some cases, complete operation of the crane, is impacted when site slopes exceed 2 percent. All reasonable efforts should be made to achieve this maximum slope. Grade areas A and B in Section I are to drain away from the foundation, but in no case slope more than 2%. If site slope of 2% maximum cannot be met, contact CB&I project manager. Swales may be needed to divert runoff water away from the site and areas of crane operation. No spoil piles are to remain within 100' of tank foundation.

## Section III - Site Access, Crane Pad, and Other Required Gravel/Stone

While each site is unique, all will require access by heavy equipment and mobile cranes. The sketch below shows areas which must be finished with geo-fabric lapped a minimum of 12", and 1 to 1 ½" diameter crushed concrete (rebar free) or rock (#57 stone or equivalent) at a minimum of 12 inches thick. The 30'x30' gravel pad is required on **Composite Elevated Tanks (CET)** only. Provide gradual transitions between areas. Also provide a 3 cubic yard pile of #67 stone or road rock (Grade 8 or CA6), place this pile on plastic located as shown or per CB&I Project Manager. Remove rock upon completion of tank painting with final site work (on some jobsites it may be possible to bury the rock with final grading or used as fill elsewhere on site; contact CB&I for instructions). See Figure 2 for typical site layout.

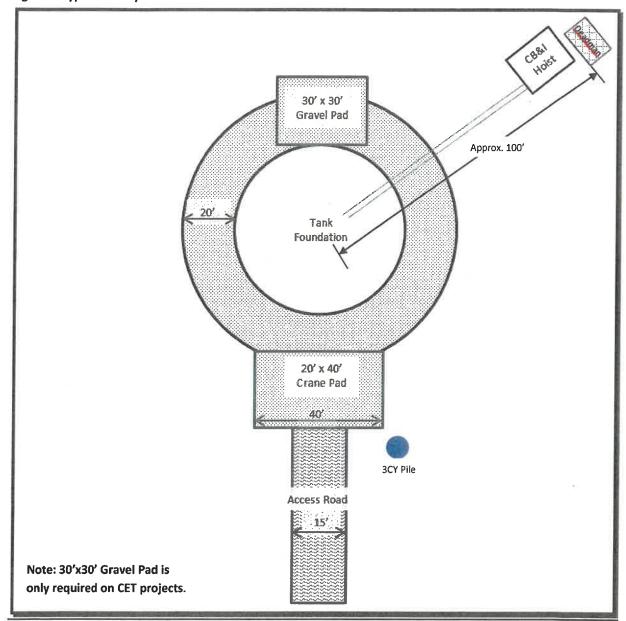
## Section IV – Deadman Installation

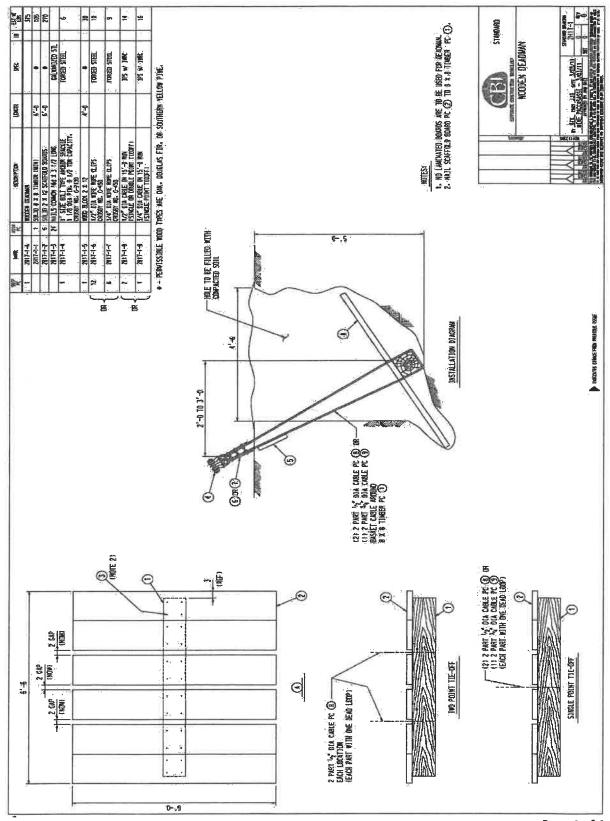
The foundation/civil subcontractor shall include installation of CB&I provided dead-man consisting of a 6' x 6'-6" x 8" planked assembly buried approximately 5' in the ground and compacted properly. Location will be provided by CB&I Project Manager upon completion of foundation construction. Install cable using the "Two Point Tie-off" method shown in drawing 2H17-1. The remaining cable sticking out of the ground should be 3' apart, tangent to the foundation.

## Section VI – Temporary Pipe Support(s)

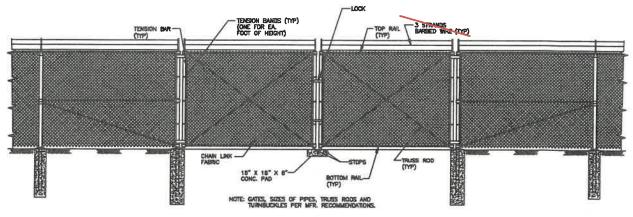
Having the permanent pipe support(s) installed before CB&I crews mobilize is the most desired outcome. If circumstances do not allow for the permanent pipe support(s) to be installed temporary pipe supports are required. Temporary pipe supports shall be constructed by stacking cribbing blocks in a manner that creates a stable base that will support the weight of the piping and will not allow the piping to shift. Cribbing blocks are defined as hardwood, either 6"x6" or 4"x4" with a length of 24 inches. Using saddle type pipe supports are also another appropriate method for supporting pipes. Using only two-by material to hold the piping in place is not acceptable, cribbing blocks are required to support the weight of the piping.

Figure 2: Typical Site layout

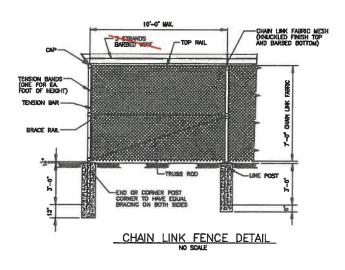




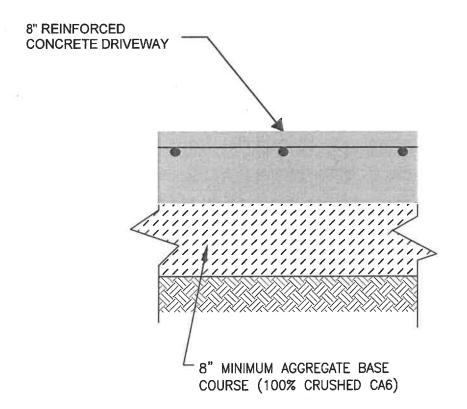
Page 4 of 4



CHAIN LINK FENCE GATE DETAIL
NO SCALE



\\CORP.BAXWOOD.COM\STANDARDS\AUTOCAD\DETAILS\B&W\COMMON\CHAIN LINK FENCE.DWG Layout1 Plotted: 8/19/2008 3:26 PM By: 362PMP

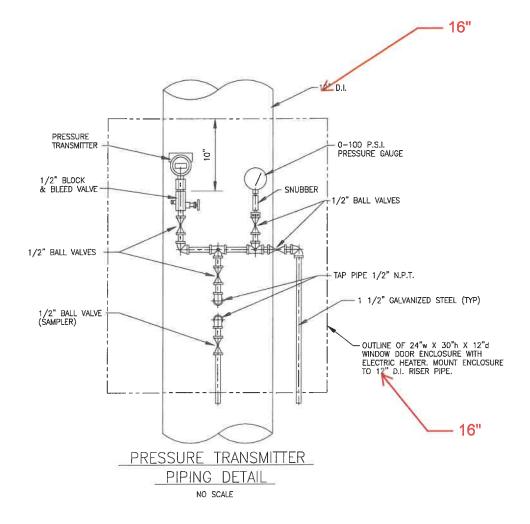


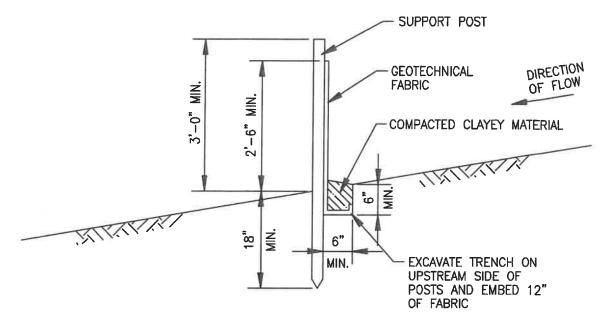
## TYPICAL COMMERCIAL DRIVEWAY PAVEMENT SECTION

NO SCALE

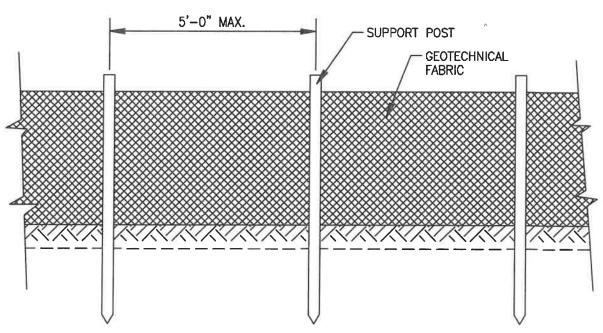
\* NOTE: MECHANICAL JOINT FITTINGS ARE NOT REQUIRED WHERE FIELD LOK GASKETS ARE UTILIZED.

STANDARD FIRE HYDRANT INSTALLATION
NO SCALE





SECTION



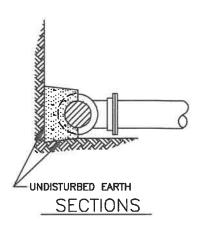
NOTE: SILT FENCE INSTALLATION SHALL COMPLY WITH AASHTO STANDARD SPECIFICATION 288-00.

ELEVATION

SILT FENCE DETAIL

NO SCALE

\\\CORP.BAXWOOD.COM\STANDARDS\AUTOCAD\DETAILS\B&W\COMMON\SILT FENCE.DWG Layout1 Piotted: 8/19/2008 3:24 PM By: 362PMP



## NOTES

- 1. PROVIDE PRECAST OR CAST—IN—PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
- 2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
- 3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.

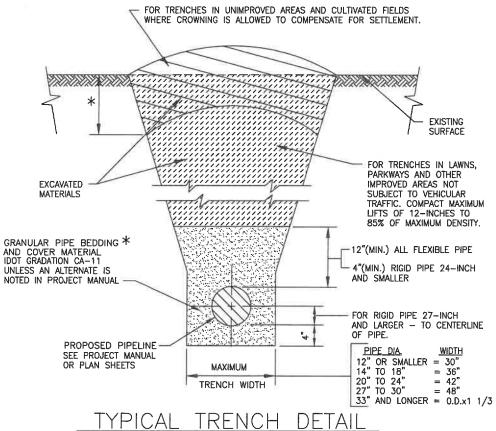
PLANS

TYPICAL THRUST BLOCK INSTALLATIONS

NO SCALE

NOTE:
PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS",
NOT TO IDOT STANDARD SPECIFICATIONS.

FARM FIELDS, GARDENS, AND WETLAND AREAS MAY REQUIRE STRIPPING, STOCKPILING, AND REPLACING ORIGINAL MATERIAL TO A SPECIFIC DEPTH. SEE PROJECT MANUAL OR GENERAL NOTES FOR REQUIREMENTS.

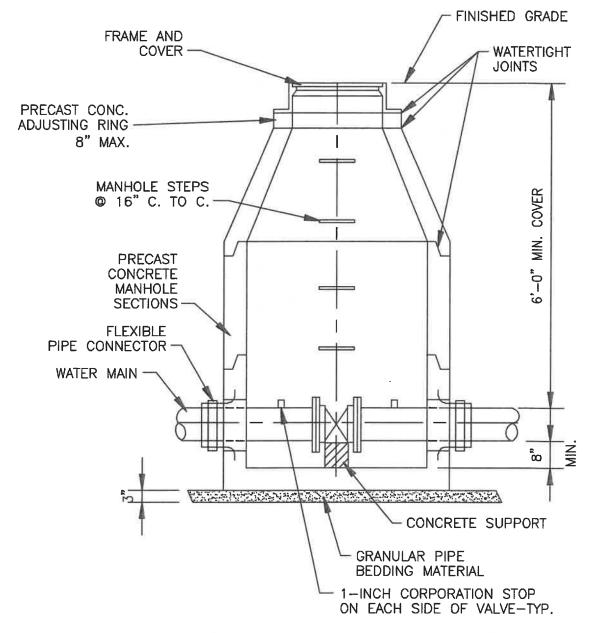


FOR NON-PAVED AREAS

\* FOR FLEXIBLE THERMOPLASTIC OR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II.

FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

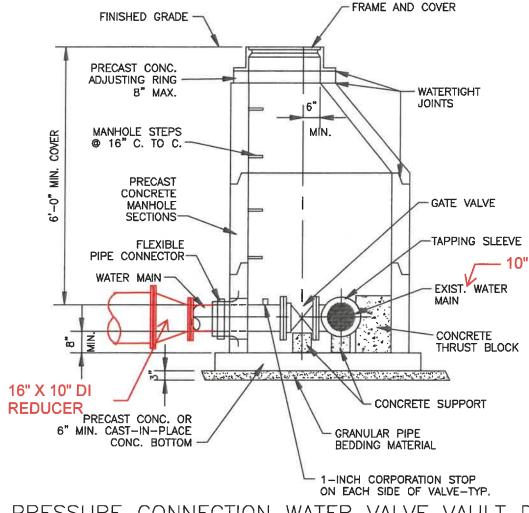
- 1. CONCENTRIC CONE REQUIRED
- 2. USE 4'-0" DIAMETER
  FOR WATER MAIN SIZES 4" THRU
  8", 5'-0" FOR SIZES 10" THRU 14",
  6'-0" (OR LARGER PER DESIGNER)
  FOR 16" OR GREATER



WATER VALVE VAULT DETAIL
NO SCALE

## NOTES:

1. ECCENTRIC CONE REQUIRED
2. USE 4'-0" DIAMETER
FOR WATER MAIN SIZES 4" THRU 8",
USE 5'-0" DIAMETER
FOR WATER MAIN SIZES 10" THRU 14",
USE 6'-0" DIAMETER (OR LARGER PER DESIGNER)
FOR WATER MAIN SIZES 16" OR GREATER.



PRESSURE CONNECTION WATER VALVE VAULT DETAIL

NO SCALE