

**NOTICE - VILLAGE OF TINLEY PARK**  
**MEETING OF THE COMMITTEE OF THE WHOLE**

**NOTICE IS HEREBY GIVEN** that a regular Committee of the Whole Meeting of the Village of Tinley Park, Cook and Will Counties, Illinois will be held on Tuesday, August 16, 2022, beginning at 6:00 p.m. in Council Chambers, located in the Tinley Park Village Hall, 16250 South Oak Park Avenue, Tinley Park, Illinois 60477.

THE AGENDA IS AS FOLLOWS:

1. CALL MEETING TO ORDER.
2. ROLL CALL.
3. CONSIDER APPROVAL OF THE MINUTES OF THE COMMITTEE OF THE WHOLE MEETING HELD ON AUGUST 3, 2022.
4. CONSIDER AMENDMENT TO TITLE XIII CHAPTER 132 SECTION 23 (12)(C) VIDEO GAMING.
5. CONSIDER AN INTERGOVERNMENTAL AGREEMENT WITH THE VILLAGE OF ROMEOVILLE FIRE ACADEMY.
6. CONSIDER ESTABLISHING A RECAPTURE ORDINANCE FOR COSTS RELATED TO UTILITY EXTENSIONS AND A LIFT STATION SERVING THE AREA EAST OF LAGRANGE ROAD GENERALLY BETWEEN 179TH STREET AND 183RD STREET.
7. CONSIDER VILLAGE STANDARDS TO ESTABLISH AND DEFINE THE ENGINEERING TEMPLATES AND SPECIFICATIONS FOR ALL UTILITY AND INFRASTRUCTURE IMPROVEMENTS IN THE VILLAGE OF TINLEY PARK.
8. CONSIDER A CONTRACT WITH MCGILL CONSTRUCTION LLC FOR 2022 MUNICIPAL PARKING LOT IMPROVEMENT.
9. CONSIDER AN AGREEMENT WITH RIDDIFORD ROOFING COMPANY FOR THE PUBLIC WORKS GARAGE ROOF REPLACEMENT - 7890 183RD STREET.
10. CONSIDER AND AGREEMENT WITH TORI CONSTRUCTION FOR THE FIRE STATION #48 ROOF REPLACEMENT – 9191 175TH STREET.
11. CONSIDER A FINAL PAYOUT & CHANGE ORDER WITH MISFITS CONSTRUCTION COMPANY FOR THE STREAMBANK STABILIZATION PROJECT.
12. CONSIDER CONTACT WITH H & H ELECTRIC INCORPORATED FOR THE LED LIGHTING PHASE 6 PROGRAM.
13. CONSIDER PURCHASE ORDER FOR FURNITURE THROUGH THE OMNIA PARTNERS COOPERATIVE CONTRACT FROM WAREHOUSE DIRECT OFFICE INTERIORS FOR POLICE DEPARTMENT AND PUBLIC WORKS OFFICES.
14. CONSIDER MEMORANDUM OF UNDERSTANDING WITH EVE AIR MOBILITY.
15. CONSIDER AN AMENDMENT TO TITLE III CHAPTER 32 RESIDENCY REQUIREMENTS OF COMMISSIONERS/COMMITTEE MEMBERS.
16. CONSIDER A CONTRACT WITH NEOGOV.
17. CONSIDER ANNUAL BENEFIT RENEWAL.
18. RECEIVE COMMENTS FROM THE PUBLIC.

ADJOURNMENT

NANCY M. O'CONNOR, VILLAGE CLERK

**ROLL**

**CALL**

**MINUTES**  
**Meeting of the Committee of the Whole**  
**August 3, 2022 – 6:00 p.m.**  
**Village Hall - Council Chambers**  
**16250 S Oak Park Ave.**  
**Tinley Park, IL 60477**

**Item #1** - At 6:00 p.m. the special meeting of the Committee of the Whole was called to order.

**Item #2** - Clerk O'Connor called the roll. Present and responding to roll call were the following:

Members Present:      M. Mueller, President Pro Tem  
                                 N. O'Connor, Village Clerk  
                                 W. Brady, Village Trustee  
                                 W. Brennan, Village Trustee  
                                 D. Galante, Village Trustee  
                                 D. Mahoney, Village Trustee  
                                 C. Sullivan, Village Trustee  
                                 M. Glotz, Village President

Members Absent:

Staff Present:          P. Carr, Village Manager  
                                 H. Lipman, Assistant Village Manager  
                                 M. Walsh, Police Chief  
                                 D. Adamski, Assistant Finance Director  
                                 S. Klotz, Fire Chief  
                                 K. Clarke, Community Development Director  
                                 C. Zemaitis, Assistant Public Works Director  
                                 D. Framke, Marketing Director  
                                 P. O'Grady, Village Attorney

Others Present:

**Item #3 - CONSIDER APPROVAL OF THE MINUTES OF THE COMMITTEE OF THE WHOLE MEETING HELD JULY 19, 2022** – Motion was made by Trustee Brennan, seconded by Trustee Sullivan to approve the minutes of the Committee of the Whole meeting held on July 19, 2022. President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #4 – CONSIDER A COOK COUNTY CLASS 7B REQUEST FOR MARRIOTT HOTELS - RESIDENCE INN & COURTYARD** – On February 5, 2019, the Village Board approved Ordinance 2019-O-009 designating the area known as 179<sup>th</sup> and Lagrange Road as blighted. The blighted designation allows for current/future developers and businesses the ability to immediately access Cook County Class 7 incentives with Village approval to attract investment in high vacancy and underdeveloped areas. The subject property is located within the designated blighted area outlined within the ordinance and is therefore eligible to apply for Class 7 incentives.

Hardick Patel (Applicant) manager of Top Hospitality, LLC, plans to construct two hotels (Residence Inn & Courtyard) at the SEC of 183<sup>rd</sup> Street and Lagrange Road. The Class 7b will provide a 10% tax incentive for the first ten (10) years and 15% for years eleven (11) and twelve (12).

President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Motion was made by Trustee Mueller, seconded by Trustee Brennan to recommend a Cook County Class

7b request for Marriott Hotels -Residence Inn & Courtyard be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #5 – CONSIDER PROPOSED SPECIAL SERVICE AREA (SSA) # 5- OAK RIDGE SUBDIVISION** – The SSA is for the Oak Ridge Subdivision located at the southeast corner of Ridgeland Avenue and Oak Forest Avenue. The SSA is a protection measure for the Village in the event the Homeowner’s Association (HOA) does not maintain these common areas properly. The Village can step in and make the necessary improvements and levy a tax on the property owners. The SSA will remain dormant so long as the HOA maintains the common areas shown on their approved plans.

President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Motion was made by Trustee Mueller, seconded by Trustee Sullivan to recommend the Proposed Special Service Area # 5- Oak Ridge Subdivision be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #6 – CONSIDER AGREEMENT WITH MUNICIPAL SERVICES CONSULTING FOR POLICE DEPARTMENT RADIO SYSTEM SIMULCAST PHASE 3** – Phase 3 includes installation of purchased equipment from Phase #2. The equipment consists of network gear, multiplex equipment, multicoupler equipment, UPS, and labor for the installation of the entire system as proposed in previous phases. Staff recommended the remaining equipment and installation by Municipal Services Consulting (MSC).

President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Motion was made by Trustee Brennan, seconded by Trustee Mahoney to recommend an agreement with Municipal Services Consulting for Police Department Radio System Simulcast Phase 3 be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #7 – CONSIDER A CONTRACT FOR THE POLICE FIRING RANGE RENOVATION WITH INTEGRAL CONSTRUCTION** – This construction contract was advertised in accordance with state bidding laws and three (3) Bids were received and read publicly at 10:01 a.m. on Wednesday, June 29th, 2022, with the Deputy Clerk, Facilities Superintendent, and FGM Architects present:

Contractor	As Read & Calculated Bid
Integral Construction, Romeoville, IL	\$ 249,200
Czervik Construction, Mokena, IL	\$ 308,000
Construction Inc., Lombard, IL	\$ 328,000

Funding is available in the approved FY23 Capital Projects Budget.

Budget Available	\$ 218,000
Lowest Responsible Bidder	\$ 249,200
Difference (Over Budget)	\$ 31,200

Due to the increase in material pricing because of COVID-19, bids came in higher than expected. The Public Works Department and the Police Department management teams met on June 30, 2022, and



mutually recommend the approved FY23 Paint Sally Port/Prisoner Cell Floors Project (\$45,000) be deferred to allow these funds to be used for the Police Department Shooting Range Renovation Project shortage.

President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Motion was made by Trustee Brady, seconded by Trustee Mahoney to recommend a contract for the Police Firing Range Renovation with Integral Construction be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #8– CONSIDER A CONTRACT FOR OVERHEAD POWERLINE REMOVAL WITH COMED** – The Village is coordinating the placement of the overhead power lines along 183<sup>rd</sup> Street in the north parkway in front of the Helipad/Fire Training Tower Facility and the Police Department. These are ComEd poles which appear to also be utilized by AT&T, Comcast, and Verizon. The preliminary work has been coordinated with the utility companies. Discussions as to where the proposed infrastructure will be placed which includes preferential alignments and above-grade equipment placement locations for items such as transformers, switch boxes, splice pits, structures, and pedestals were had. The various utility companies will require engineering deposits from the Village prior to starting their design.

ComEd provided a Customer Work Agreement. The Agreement for \$33,873 is required to be paid in full prior to ComEd proceeding with the design plans for the burial of the overhead dry utilities from the utility poles.

Funding is budgeted with TIF dollars in the FY23 Capital Fund Budget (20-00-000-75814).

President Pro Tem Mueller asked if members of the Committee had any questions. There were none. Motion was made by Trustee Brennan, seconded by Trustee Mahoney to recommend a contract for overhead powerline removal with ComEd be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #9 CONSIDER THE ANNUAL CONTRACT RENEWAL OF CARTEGRAPH** — The Public Works Department utilizes Cartegraph Work Order Systems as its operating work order system allowing administrative staff to create requests for Public Works Maintenance Staff to execute. The system is vital to labor tracking, event tracking, asset management, task assignment, and report creation.

The renewal cost is \$72,800 for one (1) year of operation and includes access to the OMS work order system, user licensing, and 811 JULIE Integration.

Trustee Brennan asked if there were any changes to the contract from last year. Colby Zemaitis, Assistant Public Works Director, stated it is the same.

Motion was made by Trustee Mueller, seconded by Trustee Brennan to recommend the annual contract renewal of Cartegraph be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #10 – CONSIDER AMENDING TITLE III CHAPTER 32.064 ECONOMIC COMMERCIAL COMMISSION-MEMBERS-TERMS** – The proposed Ordinance would amend Village residency

requirements for the Economic and Commercial Commission to require Tinley Park citizenship for the Commission's eleven (11) members and four (4) associate members.

Trustee Galante asked if this was removing the residency requirement. President Pro Tem Muller stated this amendment would require the Commissioners reside in Tinley Park.

Motion was made by Trustee Mueller, seconded by Trustee Brennan to recommend the amendment of Title III Chapter 32.064 Economic Commercial Commission-Members-Terms be forwarded to the Village Board. Vote by roll call. Ayes: Brady, Brennan, Mahoney, Mueller, Sullivan. Nays: Galante. Absent: None. President Pro Tem Mueller declared the motion carried.

**Item #7 – RECEIVE COMMENTS FROM THE PUBLIC –**

President Pro Tem Mueller asked if there were any comments from the public. There were none.

Motion was made by Trustee Brennan, seconded by Trustee Brady, to adjourn the Committee of the Whole. Vote by roll call. Ayes: Brady, Brennan, Galante, Mahoney, Mueller, Sullivan. Nays: None. Absent: None. President Pro Tem Mueller declared the meeting adjourned at 6:16 p.m.



# Interoffice Memo

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**Date:** August 8, 2022

**To:** Village Board of Trustees

**From:** Hannah Lipman, Assistant Village Manager

**Subject:** Video Gaming – Number of Terminals (Large Struck Stop)

Currently, the Village has two (2) different liquor/gaming license categories for truck stops. The Class UV License is a standard liquor and gaming license for a truck stop. The Class UV-2 License is similar to the UV License, except it allows for 24/7 video gaming. Currently, only the Gas N Wash located at 7451 183<sup>rd</sup> Street holds a Class UV-2 License.

Under State statute and upon approval of the Illinois Gaming Board, establishments classified as Large Truck Stops may have up to ten (10) video gaming terminals. This proposed code amendment would allow only for holders of a Class UV-2 liquor and gaming license, who also have approval from the Illinois Gaming Board (IGB) as a Large Truck Stop, to have up to ten (10) video gaming terminals. Locally, this would only impact one (1) establishment as mentioned above, which is in good standing with the Village, and would better align with State statute.



# Interoffice Memo

Issued/Approved by: **Stephen C. Klotz,**  
**Fire Chief Administrator**

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**Memo #22-113**

**Date:** August 10, 2022  
**To:** Pat Carr, Village Manager  
**From:** Stephen C. Klotz, Fire Chief Administrator  
**Subject:** IGA with the Village of Romeoville Fire Academy

The recruitment of firefighters has become more of a challenge. The Fire Department Administration has been working "outside of the box" to try other methods of hiring. We normally hire certified firefighters but that pool has been getting a bit more challenging to get applicants.

We would like to sign an IGA with the Village of Romeoville Fire Academy which would allow us to hire non-certified firefighters and put them through the Firefighter Basic Academy. The great part of this agreement is that the classes for our firefighters will be held at our training tower, and some of our current members will be included in the instructor group. This method of hiring will allow us to take Village residents that would like to become a firefighter and train them to the certification level.

Please feel free to contact me with any questions you might have.

Respectfully,

*Stephen C. Klotz,*  
*Fire Chief Administrator*

SCK/mb



# Interoffice Memo

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**Date:** August 16, 2022

**To:** Committee of the Whole

**CC:** Pat Carr, Village Manager

**From:** Kimberly Clarke, AICP  
Community Development Director

**Subject:** Recapture Ordinance for Lagrange Road and 183<sup>rd</sup> Street

## **BACKGROUND**

As part of an economic development initiative, the Village is constructing the extension of utilities along the LaGrange Road (Rte 45) corridor at 183<sup>rd</sup> Street in the hopes of spurring development in the area. Whenever a developer of property within the village or the Village itself proposes to install or construct any public improvement which will benefit adjacent or other properties within the village, the president and board of trustees may, by ordinance, provide for the recapture of part of the cost of such public improvement.

## **THE PROJECT**

The project is providing public utility service to the parcels of land between 179<sup>th</sup> Street and 183<sup>rd</sup> Street, and between LaGrange Road and 94<sup>th</sup> Street. Sanitary sewer will connect to the termini of the existing sanitary sewer at the southwest corner of 179<sup>th</sup> Street and Chopin Drive. The watermain will tie to the existing watermain at the northeast corner of 96<sup>th</sup> Avenue in front of the Arby's. A lift station will be constructed on a permanent easement granted by Loyola Medicine near the northwest corner of 183<sup>rd</sup> Street and the old LaGrange Road R.O.W (96<sup>th</sup> Avenue). The total cost for the project is estimated at \$2.4 million dollars. Staff has provided a map showing which properties will benefit from these utilities and have outlined their proportionate share of recapture based on the acreage of the property to to be developed.

## **Recommendation**

Staff recommends adopting this ordinance at the Village Board meeting later this evening.

Map of Properties Subject to Recapture Ordinance





# LaGrange Road Sewer and Watermain Extension

## Recapture Costs

Date: 8/18/2021

### Recapture Costs for Sewer and Watermain Extension

Parcel #	Pin #	Area (Sq Ft)	Recapture Cost	Ownership
0	27-34-300-005-0000	216,493.00	\$132,811.83	Loyola
00	27-34-300-011-0000	938,500.15	\$575,741.13	Loyola
1	27-33-401-012-0000	141,614.00	\$86,875.86	Loyola
2	27-33-401-013-0000	382,718.00	\$234,785.78	R. Charal/Halikias
3a/b	27-34-300-012-0000	941,462.00	\$577,558.13	Tinley Park, LLC/Halikias
4a/b	27-34-300-002-0000	435,600.00	\$267,227.27	Top Hospitality/Marriott
Totals:		3,056,387.15	\$1,875,000.00	
			\$0.61	/Sq Ft

### Recapture Costs for Lift Station

Parcel #	Pin #	Area (Sq Ft)	Recapture Cost	Ownership
2	27-33-401-013-0000	382,718.00	\$151,942.74	R. Charal/Halikias
3b	27-34-300-012-0000	504,068.00	\$200,119.86	Tinley Park, LLC/Halikias
4a/b	27-34-300-002-0000	435,600.00	\$172,937.40	Top Hospitality/Marriott
Totals:		1,322,386.00	\$525,000.00	
			\$0.40	/Sq Ft

### Total Recapture Costs

Parcel #	Pin #	Area (Sq Ft)	Recapture Cost	Ownership
0	27-34-300-005-0000	216,493.00	\$132,811.83	Loyola
00	27-34-300-011-0000	938,500.15	\$575,741.13	Loyola
1	27-33-401-012-0000	141,614.00	\$86,875.86	Loyola
2	27-33-401-013-0000	382,718.00	\$386,728.52	R. Charal/Halikias
3a	27-34-300-012-0000	437,394.00	\$268,327.84	Tinley Park, LLC/Halikias
3b	27-34-300-012-0000	504,068.00	\$509,350.15	Tinley Park, LLC/Halikias
4a/b	27-34-300-002-0000	435,600.00	\$440,164.67	Top Hospitality/Marriott
Totals:		3,056,387.15	\$2,400,000.00	
			\$2,400,000.00	Check







# Interoffice Memo

**Date:** August 9, 2022

**To:** Pat Carr – Village Manager  
Hannah Lipman – Asst Village Manager  
John Urbanski, Public Works Director

**From:** Colby Zemaitis, PE, CFM – Asst. Public Works Director

**Subject:** Adoption of Village Standards

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Presented for Committee of the Whole/Village Board Meeting consideration and possible action:

Description:

The purpose of Village Standards is to establish and define the engineering templates and specifications for all improvements projects done within the Village.

The Public Works Department has prepared standards and specifications for the construction of all public improvements in the Village. The Standards are designed to assure long life, good performance and minimum maintenance to roadways, utilities and other items that are the responsibility of the Village to own and maintain. These Standards help ensure the general high-quality image, appearance, and identity is being maintained. It shall be unlawful for any person to construct, reconstruct or demolish any public improvement in the Village except in compliance with these standards and specifications. Any deviation from the Standards must first be approved by the Public Works Director.

Improvement projects occurring throughout the Village begin with design plans and specification booklets for contractors and developers to follow. During the design phase, engineers and developers request from the Public Works Departments a copy of the standards for which to design roadways, storm sewers, sanitary sewers, watermain, street lighting and other minor items like sidewalks and bike paths. These standards are inserted in the plans and give the contractor the needed information to bid the project and construct the work to the requirements of the Village. With these standards it enables all items to be constructed the same, provide the necessary strength and stability as well as simply the repair/replacement process for the Village.

These Standards may be amended from time to time as new technologies and practices are developed and/or the experience gained in the use of these Standards indicates a need for revision. The Public Works Department shall evaluate the effectiveness of the Standards and make amendments, as needed. The effective date of any amendments to the Standards shall be identified on each detail/specification as it is updated. Any construction projects with a final approved bid design before the effective date of publication shall be grandfathered into the previous version of the Standards, provided that the improvements have been constructed within two (2) years from the date of approval. If the improvements have not been constructed within two (2) years, the applicant will be required to resubmit the application in accordance with the requirements of the most recent version of the Standards. These Standards shall apply to all public improvements within the Village, except where the Village's jurisdiction is superseded by the State, the County, or by another jurisdiction.

Staff Direction Request:

1. Approve signature of this Ordinance to approve the adoption of these Village Standards.

Attachment:

1. Village Standards.





## **Storm Sewer Construction Standards and Specifications**

### **General Provisions for Storm Sewer**

The storm sewers within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be designed and constructed in accordance with the provisions listed below and be provided to serve each property in a subdivision or development.

The design of all storm sewer systems shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Illinois Environmental Protection Agency Regulations (IEPA)
- Standard Specifications for Road and Bridge Construction, Latest Edition
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Permit Requirements**

An Illinois Environmental Protection Agency (IEPA) NPDES Stormwater Pollution Prevention Plan (SWPPP), as well as a Metropolitan Water Reclamation District of Greater Chicago (MWRD), for improvements in Cook County, permits shall be prepared, submitted for review to the Village Engineer and signed off by the Village Engineer, Design Engineer and issued by the permit authorities authorizing the construction of the storm sewer in the Village before construction begins. A copy of the approved SWPPP permit shall be provided to the Village Engineer prior to the start of construction.

### **Submittal Requirements**

All required submittal requirements entail:

- Plan and Design Calculations
- Plats
- Permits
- Easement Requests
- Licensing Agreements, etc.
- Other Agencies (ACOE, MWRD, IDOT, Will and/or Cook County, etc.)

All of these finalized, signed and approved items must be submitted to the Village Engineer to allow for review within two (2) weeks of construction. Any initial review

requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

In addition to meeting the requirements of the Subdivision and Development Regulations, all land to be developed shall meet the requirements of the Village's Flood Plain Ordinance #73-0-003, the Sewer Permit Ordinance and the Watershed Management Ordinance of the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), latest versions.

All storm sewer work by the Contractor shall be approved by the Village Board then coordinated with the Village, County, State, Railroad and other authorities having jurisdiction. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Storm sewer construction coordination shall be done through the Public Works Department. Construction shall be staged to service the adjacent properties. A Pre-Construction meeting shall be held to discuss these matters.

All storm sewer improvements shall be coordinated with the Village Engineer and Public Works Director to continue service to adjacent properties throughout construction. An Erosion Control Plan shall be submitted, by-pass pumping may be required.

### **Storm Sewer Design and Materials**

- Storm sewer systems shall be constructed throughout each subdivision or development to carry storm water from all inlets and catch basins to an adequate outfall.
- The minimum design capacity shall be based upon the most recent version of the Illinois State Water Survey, Bulletin 70 for a 10-year, 24-hour storm event.
- Storm sewer shall be designed to flow full with a minimum velocity of three feet per second (3 fps) and not to exceed ten feet per second (10 fps).
- Drainage systems shall anticipate and provide capacity for transmitting drainage from other tributary areas, but not retention of these other tributary areas.
- System designs shall meet regulations for Long Range Flood Control programs established by the Metropolitan Reclamation District and/or Cook and Will County.
- Open roadside ditches shall be prohibited, except where required in State or County Right of Ways, or as otherwise approved by Village Board.
- Concrete headwall and apron with riprap shall be provided for any outfall storm sewer into an existing open ditch or natural water course as per Village Ordinances.
- Drain inlets shall be placed in street gutter at all intersections and elsewhere where required by terrain.
- Drains shall not be spaced more than three hundred (300') feet apart along the gutter.
- Storm sewers shall be a minimum of ten (10') feet clear from all water transmission mains or water services.
- Storm sewers shall not be directed into sanitary sewers. No connections between systems shall be permitted at any time, during or after construction.

- For all new construction, drainage structures shall be furnished along the rear property line on the corner of each and every lot. As-Built drawings shall be furnished to the Village Engineer or Public Works Director for approval. Occupancy Permit(s) shall not be issued until As-Built drawings are approved. See Record Drawing Requirements.
- Storm structures shall be precast, reinforced concrete sections, a minimum of four (4') feet in diameter with precast, reinforced concrete off-set cones, except if located at the end of a storm line. Concrete sections shall conform to ASTM C-478.
- Flared end sections shall be designed to be at or above Normal Water Level (NWL) when placed along detention ponds.
- Storm structures shall have all lifting holes, joints and gaps tuck pointed with hydraulic cement.
- Storm sewer in the right of way shall be Reinforced Concrete Pipe (RCP) with a minimum of twelve (12") inch diameter with flared end section and grates. Shall conform to ASTM C-76 or C-507 with joints conforming to C-443.
- Storm sewer outside the right of way may be dual-wall, smooth interior ADS HP Storm Sewer pipe meeting and exceeding ASTM F-2881 and AASHTO M-330. Pipe shall be joined with a gasketed, integral bell and spigot joint meeting ASTM F-2881.
- No storm structures shall be located in sidewalks, driveways or crosswalks.
- All structures shall have a maximum of twelve (12") inches of adjusting rings.
- Storm structures (manholes, catch basins and inlets) shall be precast sections conforming to ASTM D-478 and have eccentric cone sections installed to line up with the steps, in applicable.
- No storm sewer shall be located beneath buildings or structures. It shall be a minimum of ten (10') feet separation between the storm sewer and building or structures.
- An underdrain in a fabric lined trench shall be required at all low points in parking lots and roadways, or as recommended by the Village Engineer.
- In parking lot designs, a minimum of two ten (10') finger drains shall be provided.

### **Storm Sewer Services**

- Services for sump pump discharge must be constructed for each lot or building.
- Storm sewer services must be minimum of four (4") inches in diameter. Size must accommodate sump pump discharge, as well as surface runoff.
- Service lines shall be a minimum of SDR 35.
- Services shall be connected to a manhole or catch basin, where available.
- Air gaps must be provided for all sump pump services. Where a service wye exists, connections can be made; but an air gap shall be provided where service exits the structure.
- Sump pumps shall be used to discharge storm water only.

### **Frame and Lids**

- Frames shall be Heavy Duty - East Jordan Iron Works (EJIW) 1050Z1
- Closed lids shall be Type A solid cover with closed pick holes in the pavement areas that are not intended to take storm water (not curb line) with STORM and VILLAGE OF TINLEY PARK shall be cast on the lid

- Lids intended to take storm water shall be EJIW Type M2 flat grates that state "Dump no Waste", "Drains to Waterways" and include fish symbol or approved equal in and outside pavement.
- Curb structures intended to take storm water shall be EJIW 1040 M1 or approved equal that state "Dump no Waste", "Drains to Waterways" and include the trout symbol..
- Type 8 grates can be used in grass residential areas for inlets and catch basins.
- Frames shall be set on a bituminous material to prevent inflow as well.

### **Steel Plate Requirements for Roadway Excavations**

- The use of steel plates is required for all projects requiring the cutting of roadway pavement. These standards ensure that the Village pavements are left in the same, if not better, condition than they were found before the project. This will reduce congestion and roadway hazards, as well as increase safety in and out of the construction limits.
- The use of steel plates by Contractors and Utility Companies as a temporary cover over an excavated area in the roadway can present safety hazards and other problems if allowed to remain in place for extended periods and not properly secured or maintained.
- When backfill operations of an excavated area in the traveled way cannot be properly completed within a work day, steel plate bridging will be required.
- See Construction Standards for Roadway section for more detail.

### **Inspection and Approval**

- A Pre-Construction Meeting shall be scheduled with the Public Works and/or Building Department to discuss the following:
  - Project Contacts (Project Manager and 24-hour Contact)
  - Start and Completion Dates
  - Project Timeline (i.e. Village Holidays, Public Events, Weekend Work, etc.)
  - Required access for local residents, school buses, garbage trucks, etc.
  - Potential Detour Routes
  - Material Storage Locations
  - Resident Confrontation
  - Traffic Control and Protection
- Full time inspection may be required by the Village/Consultants while the storm sewer system are being constructed. It is the Developer's responsibility to cover the cost of the inspection services.
- All storm sewer and structures shall be thoroughly cleaned of dirt and debris; as well as all joints mortared before final inspection and approval.

# NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM

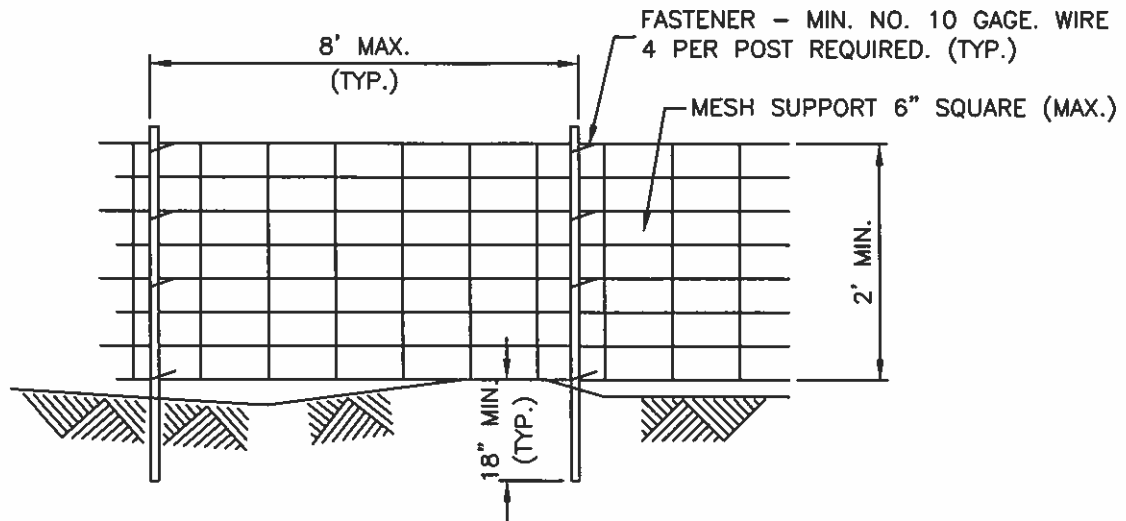
## GENERAL NOTES:

THE VILLAGE OF TINLEY PARK REQUIRES GENERAL COMPLIANCE WITH THE NPDES PHASE II PROGRAM. AS SUCH, THE VILLAGE REQUIRES THAT ALL DEVELOPMENTS PROVIDE, TO THE EXTENT POSSIBLE, CONSTRUCTION SITE RUN-OFF CONTROL AND ILLICIT DISCHARGE PREVENTION AND ELIMINATION. ALL DEVELOPMENTS WILL PROVIDE THE FOLLOWING:

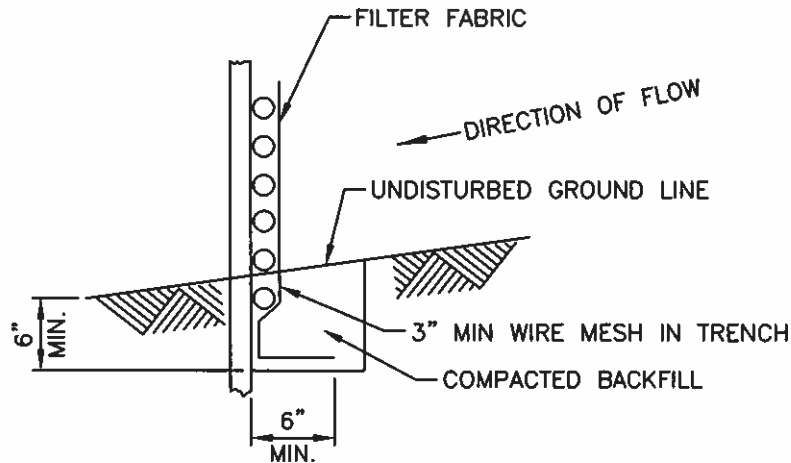
1. AN EROSION CONTROL PLAN THAT PROVIDES FOR, AMONG OTHER THINGS, A SILT FENCE AROUND THE SITE WHERE ANY RUN-OFF WOULD BE DIRECTED OFF-SITE, EITHER TEMPORARILY OR PERMANENTLY. INCLUDED IN THE PLAN WILL BE 'SILT-SAVER' (OR EQUAL) FRAMES AND FILTER ASSEMBLIES OVER ALL STORM SEWER STRUCTURES. STRAW BALES WILL NO LONGER BE ALLOWED DUE TO THE LACK OF MAINTENANCE. SILTATION BASINS AND DITCH CHECKS WILL BE SHOWN AS APPROPRIATE. THE PLAN SHALL HAVE THE FOLLOWING CERTIFICATION: *"THIS EROSION CONTROL PLAN WAS PREPARED BY (ENGINEER'S NAME) OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA."* SIGNED AND DATED BY THE PROJECT ENGINEER.
2. ALL STORM WATER FRAMES AND GRATES SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK" OR OTHER ACCEPTABLE LETTERING AS APPROVED BY THE VILLAGE ENGINEER.
3. THE LAST CATCH BASIN PRIOR TO THE OUTLET TO A DETENTION SYSTEM OR NATURAL WATERWAY SHALL BE EQUIPPED WITH A TRAP SUCH AS THE SNOOT OR EQUAL. THE CONTRACTOR SHALL CLEAN OUT ALL SUMPS OF SUSPENDED SOLIDS AND OTHER POLLUTANTS ON A REGULAR BASIS UNTIL THE VILLAGE ACCEPTS THE IMPROVEMENTS.
4. THE CONTRACTOR/DEVELOPER SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.



## WIRE SUPPORTED SILT FENCE



ELEVATION

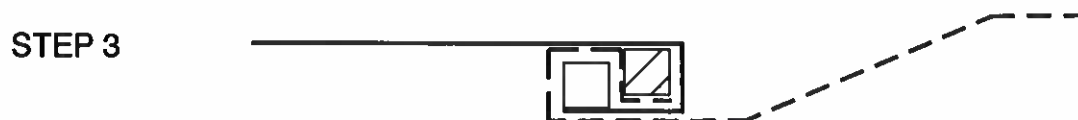
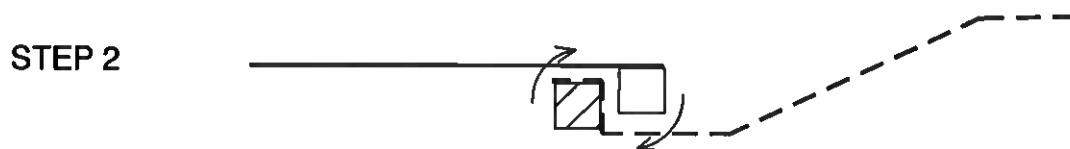
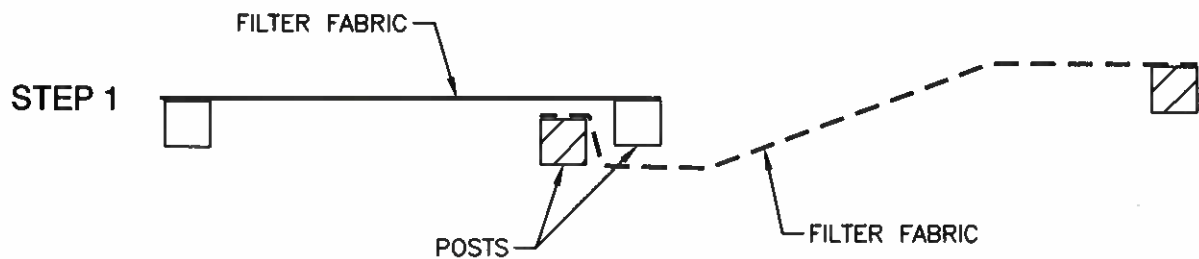


FABRIC ANCHOR DETAIL

### NOTES:

1. PATROL FENCE WEEKLY, AFTER  $\frac{1}{2}$ " RAIN INSPECT THE DAY AFTER.
2. WIRES OF MESH SUPPORT SHALL BE MIN. GAGE NO. 12.
3. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
4. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
5. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

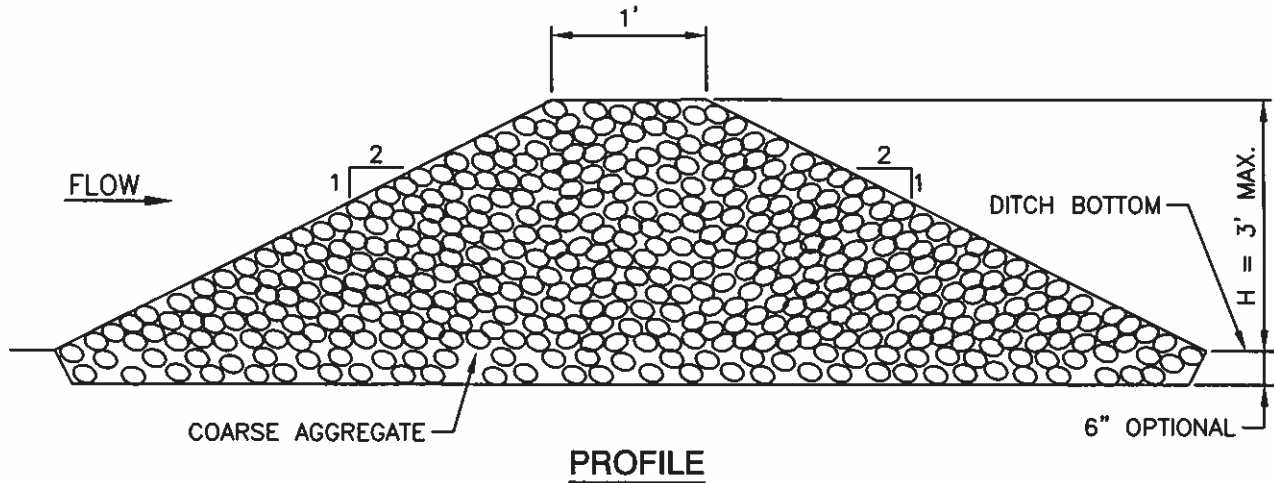
## SILT FENCE ASSEMBLY DETAIL



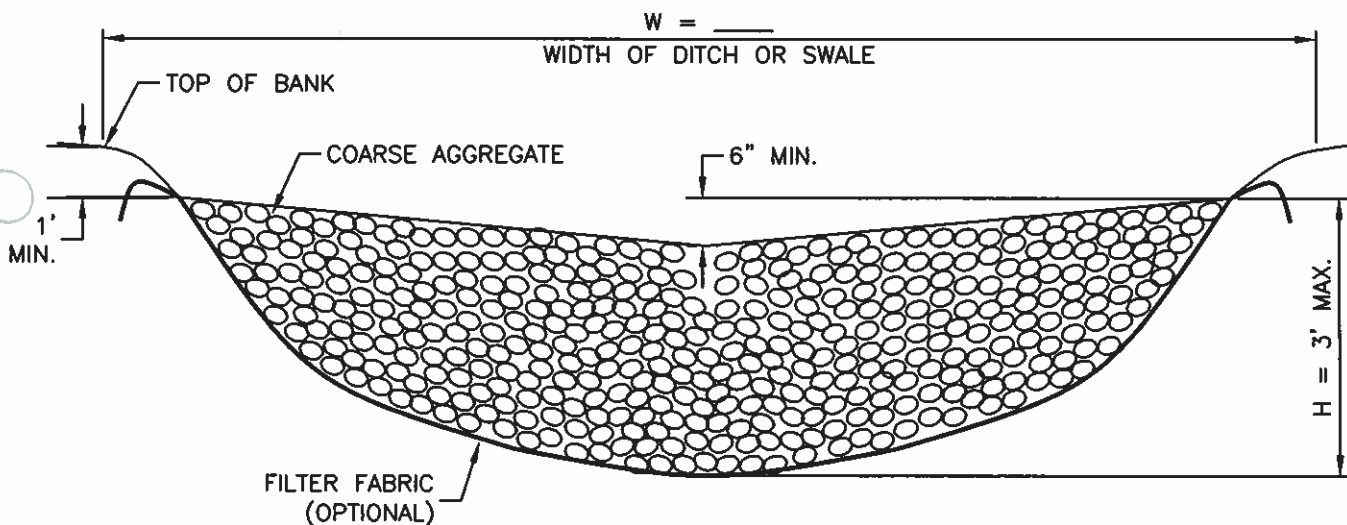
### NOTES:

1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

# ROCK CHECK DAM - COARSE AGGREGATE



PROFILE



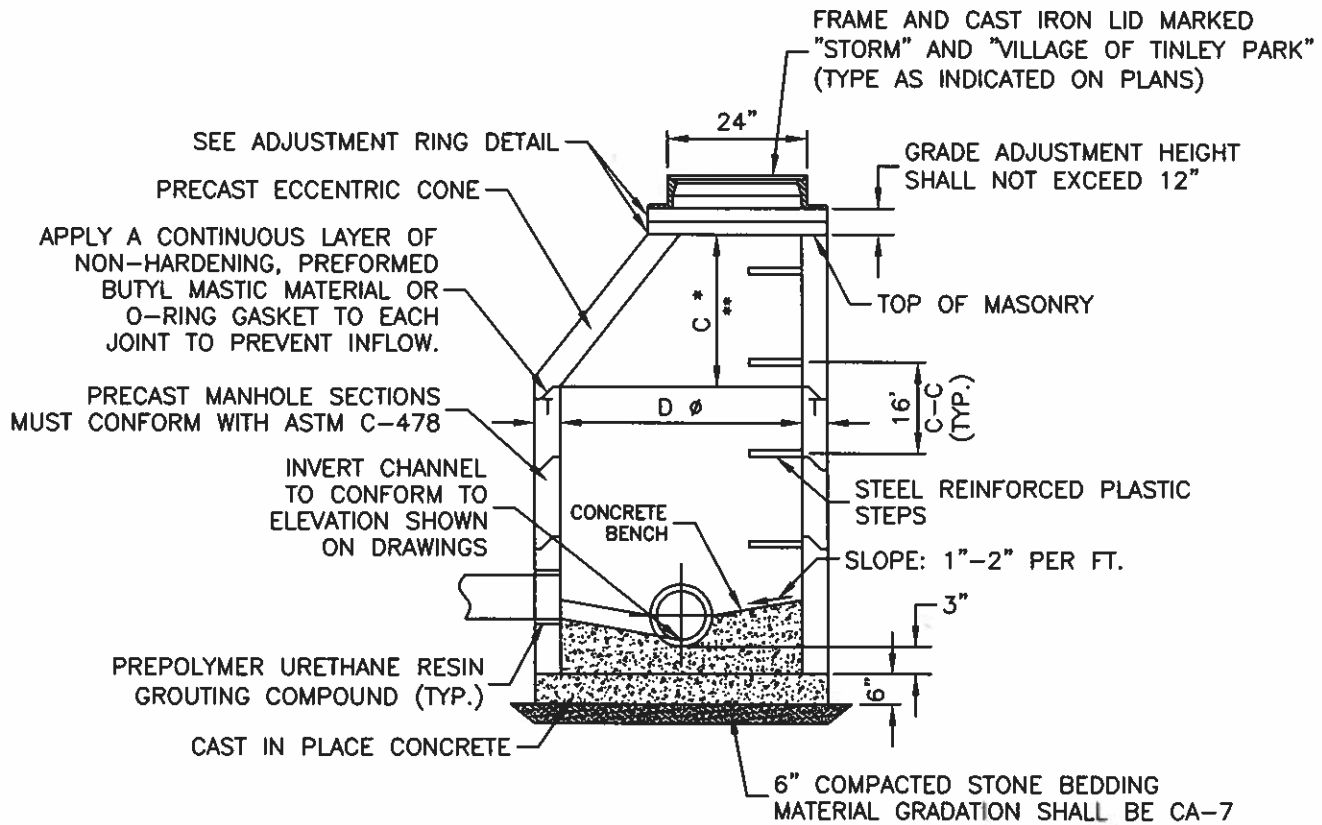
CROSS SECTION

## NOTES:

1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.
2. COARSE AGGREGATE SHALL MEET ONE OF THE FOLLOWING IDOT GRADATIONS, CA-1, CA-2, CA-3, OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
3. FOR ADDED STABILITY, THE BASE OF THE DAM MAY BE KEYED 6 INCHES INTO THE SOIL.
4. SEE PLANS FOR SPACING OF DAMS AND H DIMENSIONS.
5. DRAINAGE AREA TO EACH DAM SHALL BE LESS THAN 2 ACRES.
6. USE ROCK CHECK DAM-RIPRAP IL-605R FOR DRAINAGE AREAS OF 2 TO 10 ACRES.



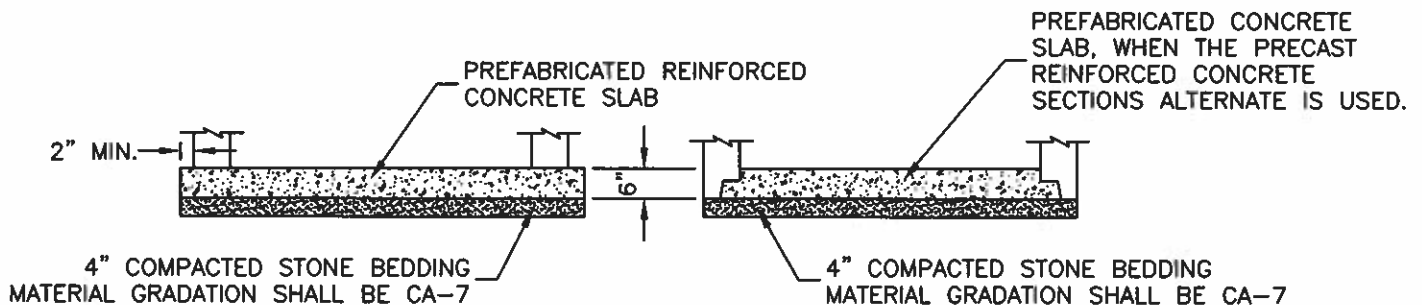
# STORM MANHOLE



ALTERNATE MATERIALS FOR WALLS	D	C	T
PRECAST REINFORCED CONCRETE SECTION	4'-0" 5'-0"	2'-6" 3'-9"	4" 5"
CAST-IN-PLACE CONCRETE	4'-0" 5'-0"	2'-6" 3'-9"	6" 6"

\* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTION MAY VARY FROM THE DIMENSION GIVEN  $\pm 6"$ .

\*\* SEE DETAIL FOR PRECAST REINFORCED CONCRETE FLAT SLAB TOP.



## ALTERNATE BOTTOM SLAB

### NOTES:

1. ECCENTRIC CONES REQUIRED, UNLESS OTHERWISE INDICATED ON DRAWINGS. FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.

USE 4'-0"  $\phi$  FOR SEWER SIZES 8" THRU 21", 5'-0"  $\phi$  FOR SEWER SIZES 24" THRU 33" UNLESS OTHERWISE NOTED.

3. CAST-IN-PLACE STORM STRUCTURES WILL BE CONSIDERED BY THE VILLAGE, IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE VILLAGE ENGINEER PRIOR TO THE START OF PROJECT.



# CATCH BASIN TYPE A

(IN PAVEMENT)

CURB GAPS SHALL BE 10' EACH SIDE OF STRUCTURE AND DOWELED TO ADJACENT CURB

FRAME AND CAST IRON LID MARKED "STORM" AND "VILLAGE OF TINLEY PARK" (SEE STORM LID DETAIL)

GRADE ADJUSTMENT HEIGHT SHOULD NOT EXCEED 12"

PRECAST ECCENTRIC CONE

SEE ADJUSTMENT RING DETAIL

EXTERNAL CRETEX BOOT OR APPROVED EQUAL

TOP OF MASONRY

APPLY A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BUTYL MASTIC MATERIAL OR O-RING GASKET TO EACH JOINT TO PREVENT INFLOW.

PREPOLYMER URETHANE RESIN GROUTING COMPOUND (TYP.)

STEEL REINFORCED PLASTIC STEPS

INLET

OUTLET

4'-0"

16' C-C (TYP.)

R=2"

6"

34" UNLESS OTHERWISE NOTED ON THE PLANS

CAST IN PLACE CONCRETE

6" COMPACTED STONE BEDDING MATERIAL GRADATION SHALL BE CA-7

ELEVATION

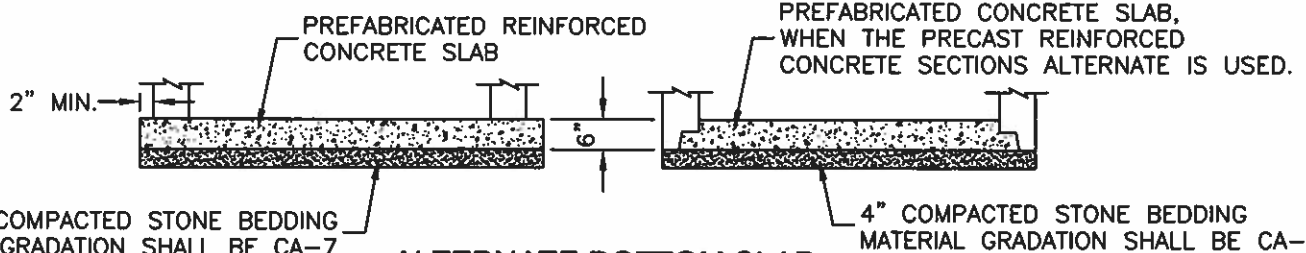
(STANDARD OUTLET)

PRECAST MANHOLE SECTIONS MUST CONFORM WITH ASTM C-478

ALTERNATE MATERIALS FOR WALLS	D	C	T
PRECAST REINFORCED CONCRETE SECTION	4'-0" 5'-0"	2'-6" 3'-9"	4" 5"
CAST-IN-PLACE CONCRETE	4'-0" 5'-0"	2'-6" 3'-9"	6" 6"

\* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTION MAY VARY FROM THE DIMENSION GIVEN  $\pm 6"$ .

\*\* SEE DETAIL FOR PRECAST REINFORCED CONCRETE FLAT SLAB TOP.



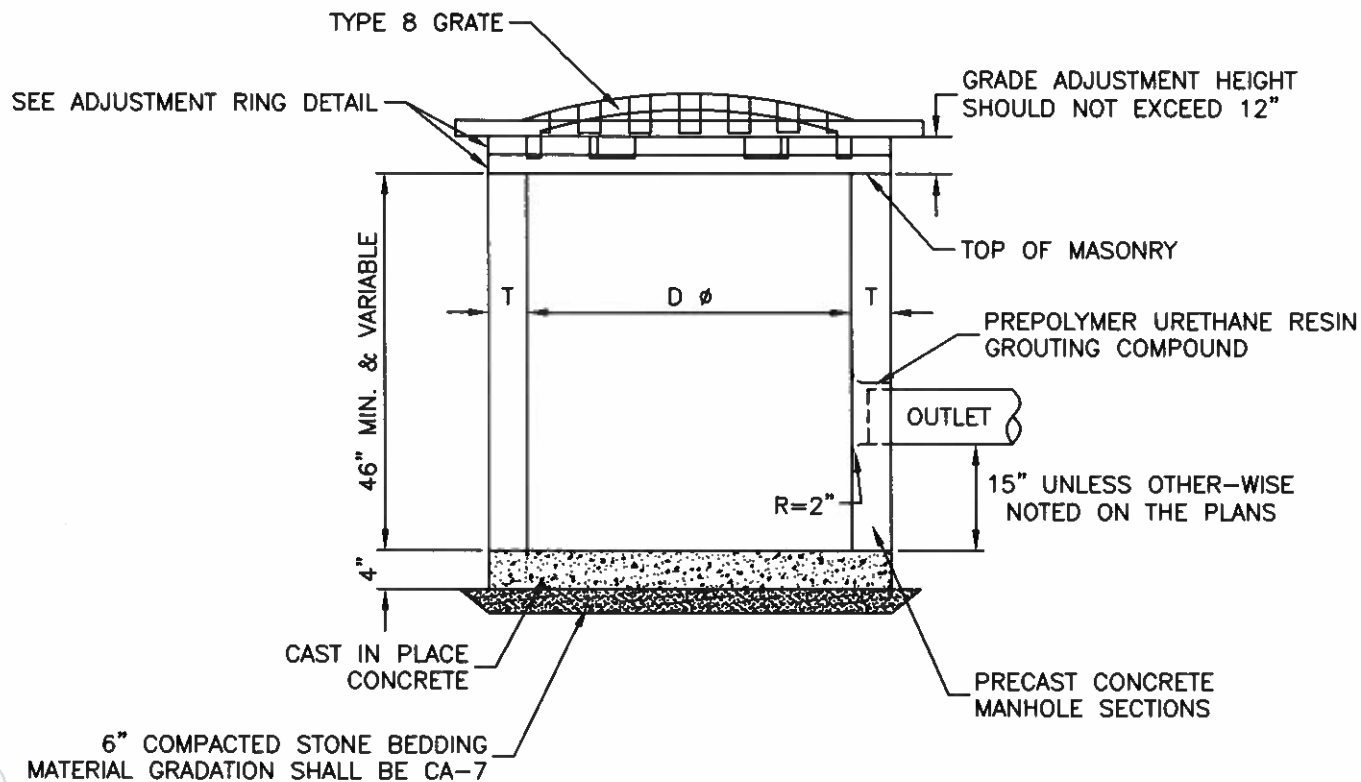
ALTERNATE BOTTOM SLAB

## NOTES:

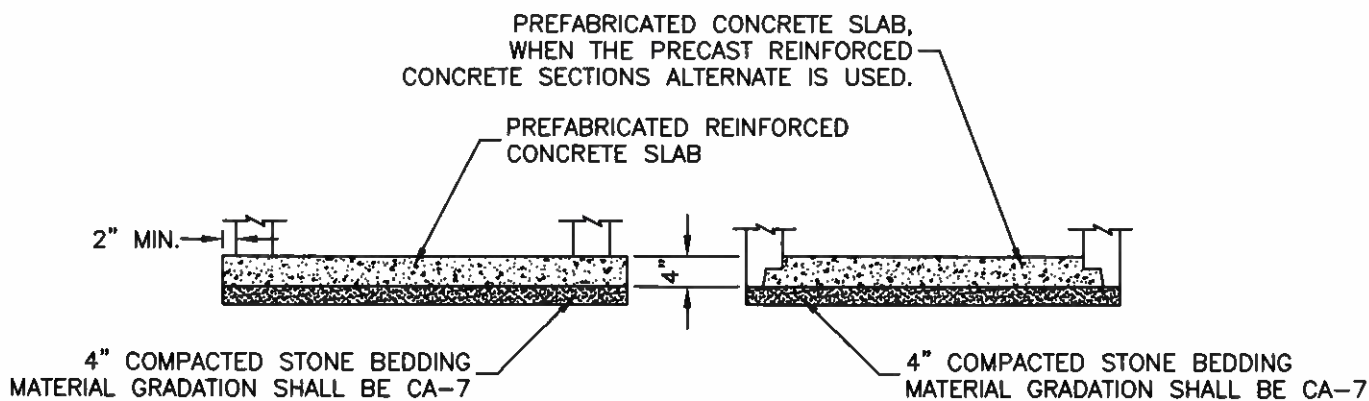
1. ALL CATCH BASINS SHALL BE 4'-0"  $\phi$  UNLESS OTHERWISE NOTED ON THE PLANS.
2. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
3. USE THE TYPE OF FRAME AND COVER INDICATED ON THE DRAWINGS.
4. CAST-IN-PLACE STORM STRUCTURES WILL BE CONSIDERED BY THE VILLAGE, IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE VILLAGE ENGINEER PRIOR TO THE START OF THE PROJECT.



# CATCH BASIN TYPE C



ALTERNATE MATERIALS FOR WALLS	D	T
PRECAST REINFORCED CONCRETE SECTION	2'-0"	3"
CAST-IN-PLACE CONCRETE	2'-0"	6"

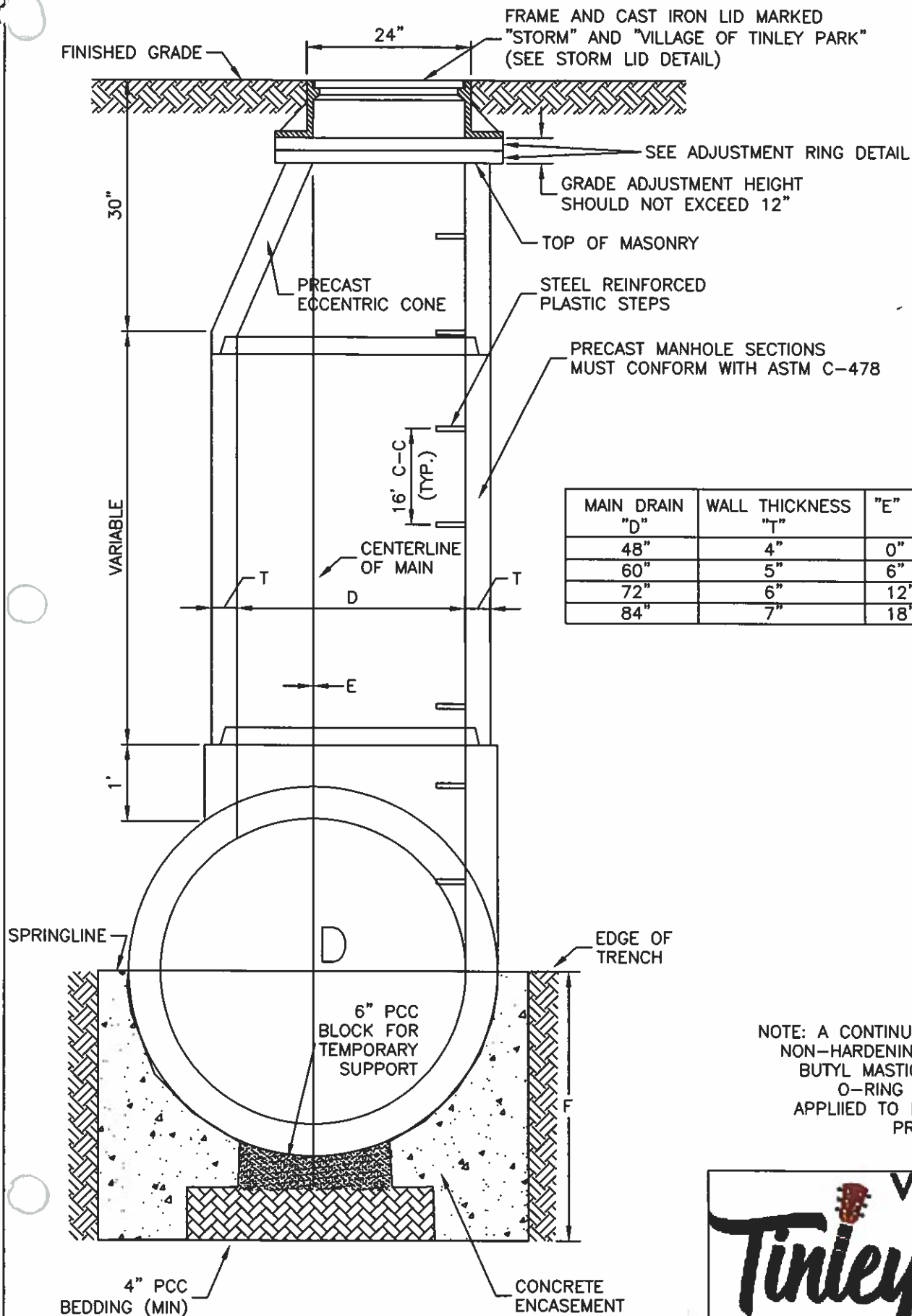


## ALTERNATE BOTTOM SLAB

### NOTE:

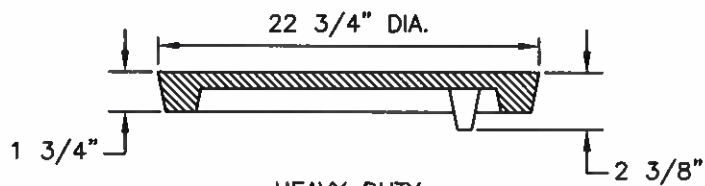
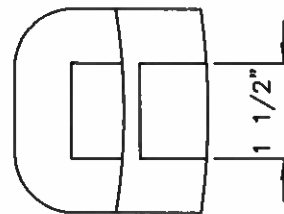
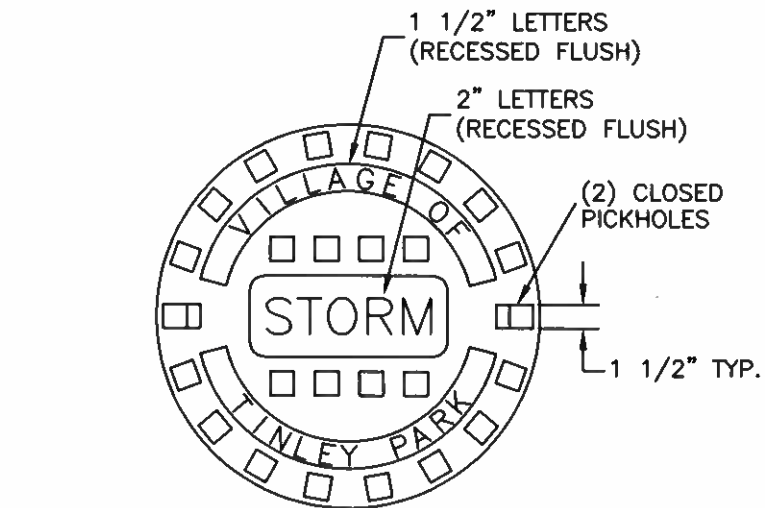
1. CAST-IN-PLACE STORM STRUCTURES WILL BE CONSIDERED BY THE VILLAGE, IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE VILLAGE ENGINEER PRIOR TO THE START OF THE PROJECT.

# TYPE T MANHOLE DETAIL

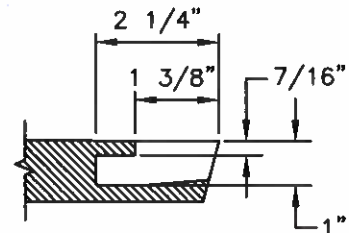


NOTE: A CONTINUOUS LAYER OF  
NON-HARDENING, PREFORMED  
BUTYL MASTIC MATERIAL OR  
O-RING GASKET TO BE  
APPLIED TO EACH JOINT TO  
PREVENT INFLOW.

# SPECIAL LETTERED STORM MANHOLE LID\*



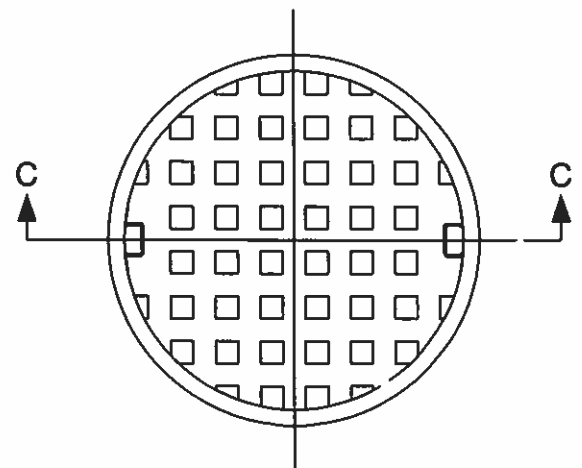
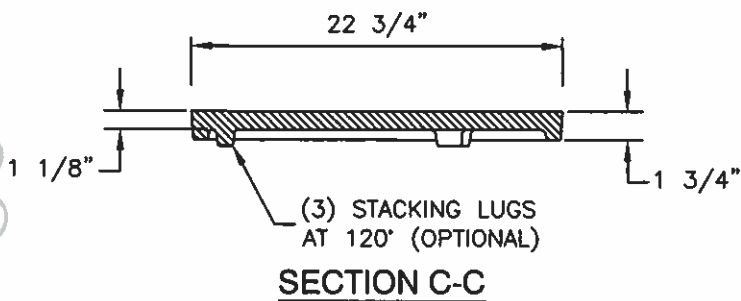
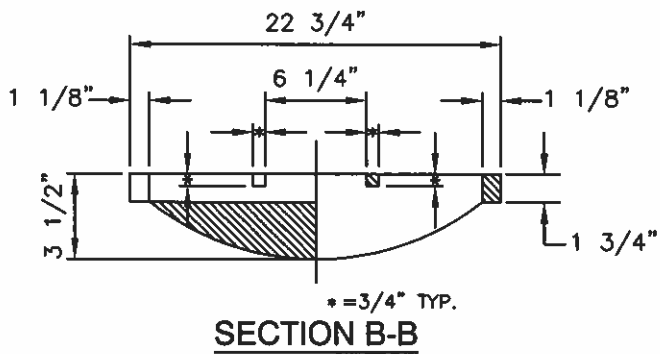
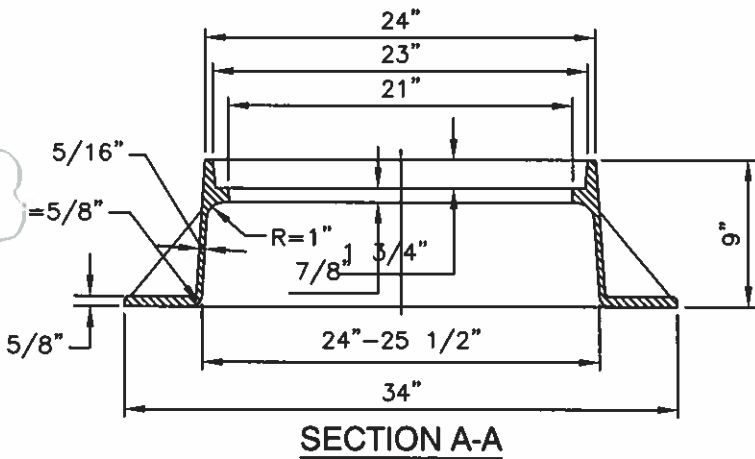
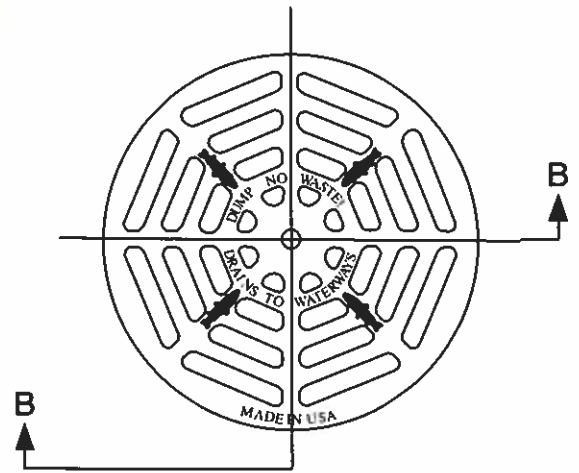
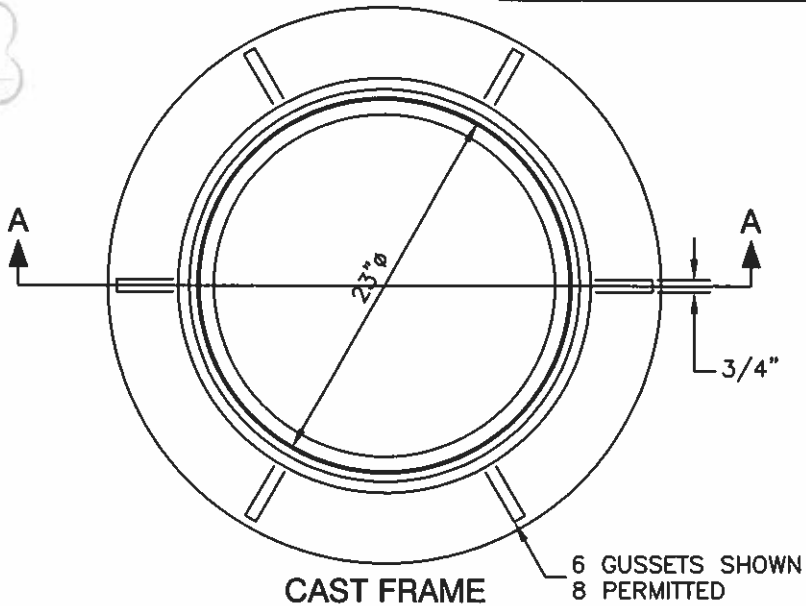
HEAVY DUTY  
EJIW 1020A OR APPROVED EQUAL  
MACHINED BEARING SURFACE  
COVER WT: 115 lbs.



CLOSED PICKHOLE DETAIL

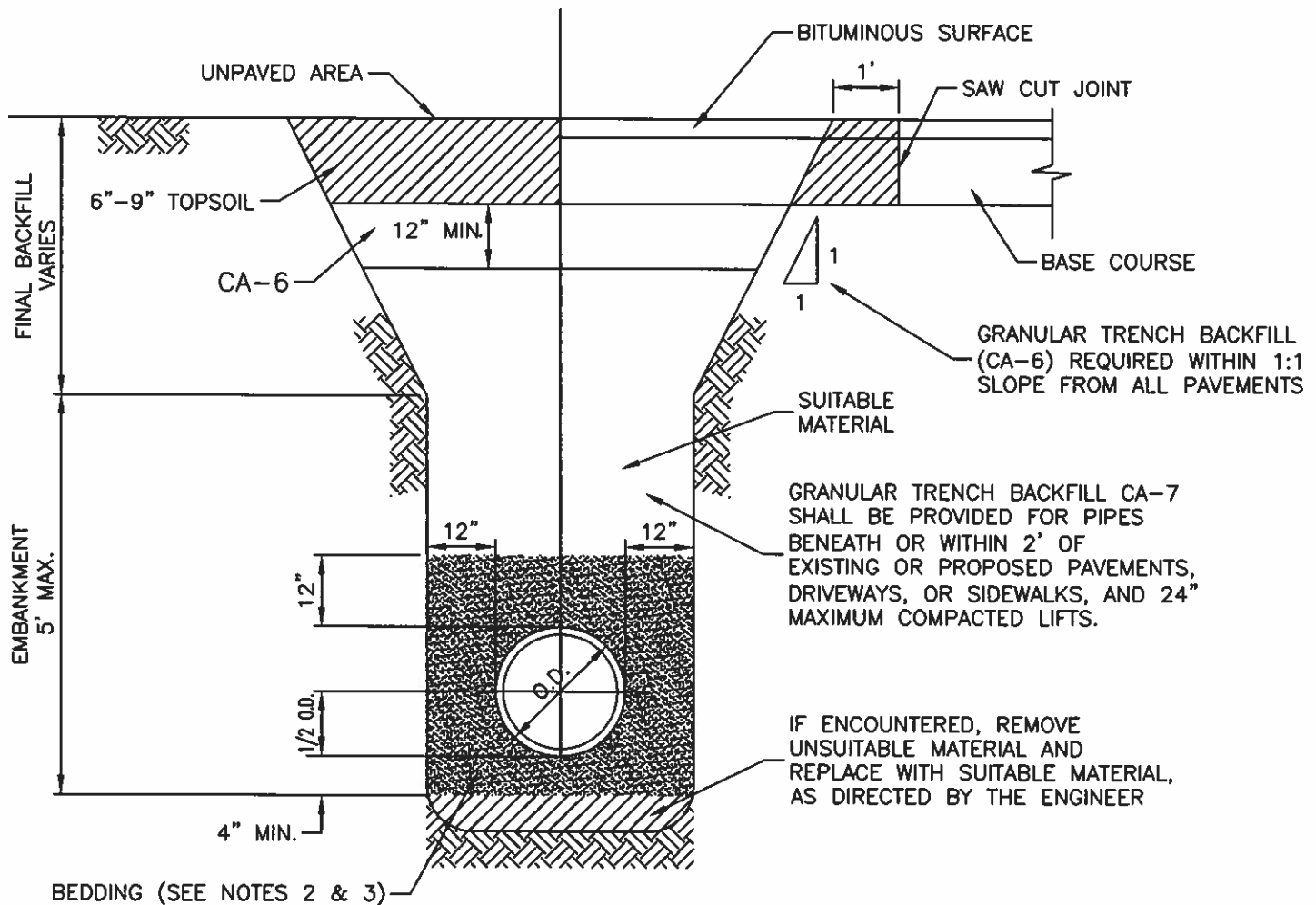
\* LIDS SHALL COMPLY WITH NPDES PHASE II  
BEST MANAGEMENT PRACTICES THROUGH  
APPROPRIATE FACIAL MARKINGS.

## TYPE 1 FRAME AND LIDS





# TRENCH BACKFILL DETAIL FOR STORM SEWER

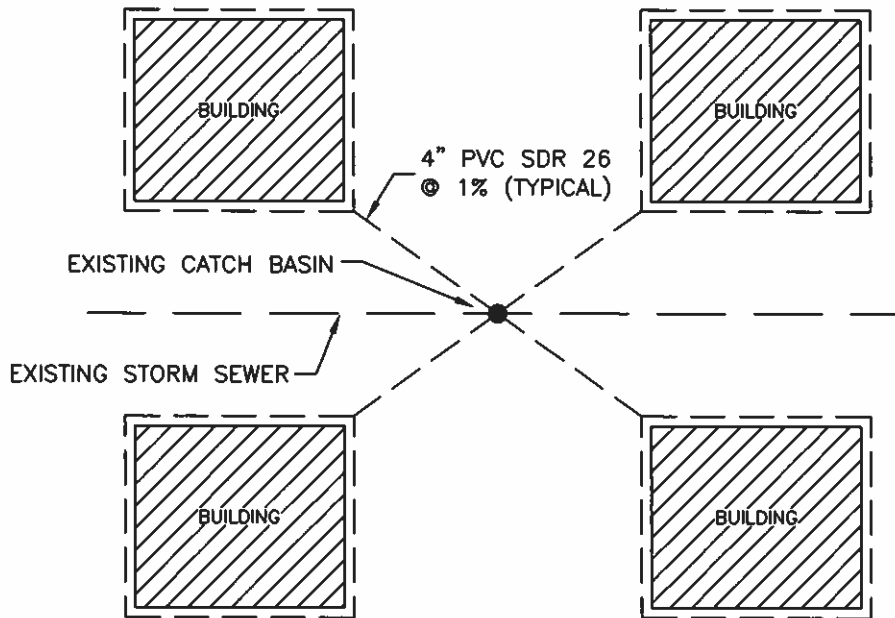


## NOTES:

1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
2. BEDDING SHALL BE REQUIRED TO BE A MINIMUM THICKNESS EQUAL TO  $\frac{1}{4}$  OF THE OUTSIDE DIAMETER OF THE PIPE BUT SHALL NOT BE LESS THAN 4". BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE GRADATION SHALL BE CA-7.
3. FOR PVC PIPE THE BEDDING MATERIAL SHALL BE PLACED A MINIMUM 12" OVER THE TOP OF THE PIPE AND GRADATION SHALL BE CA-7 AND SHALL BE CAREFULLY PLACED SO AS TO FILL THE SPACE UNDER AND AROUND THE PIPE.
4. TRENCH BACKFILL SHALL BE CA-7 TO WITHIN 12" OF THE TOP OF THE TRENCH. TOP FINAL 12" SHALL BE FILLED WITH CA-6.

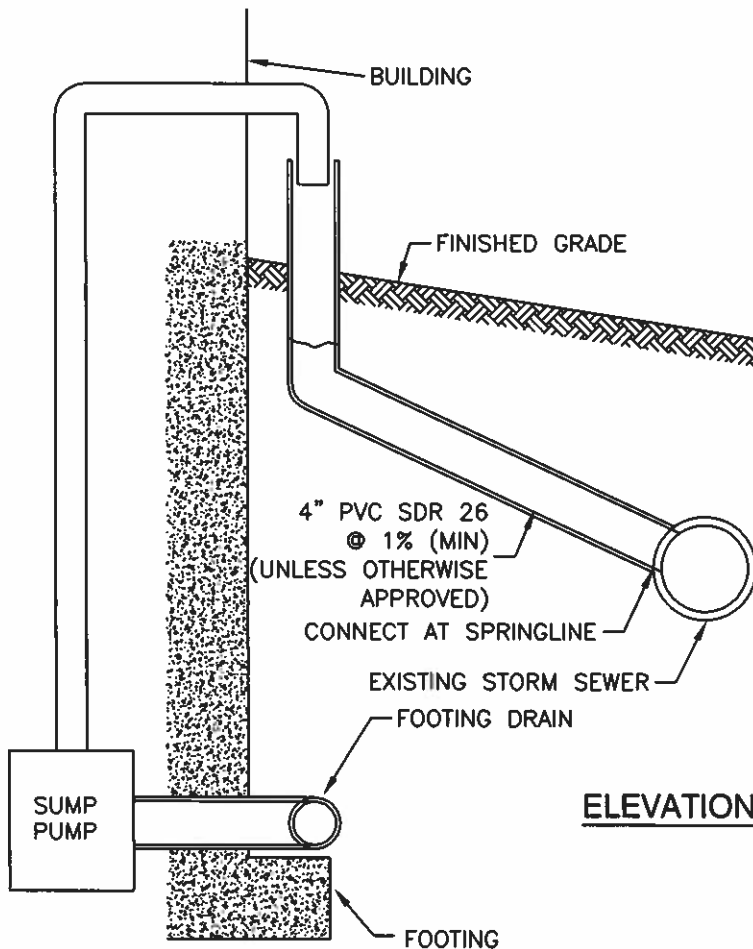
# TYPICAL DOWNSPOUT & FOOTING DRAIN CONNECTION TO STORM SEWER

## CONNECTION TO STRUCTURE



TOP VIEW

## CONNECTION TO STORM SEWER



ELEVATION

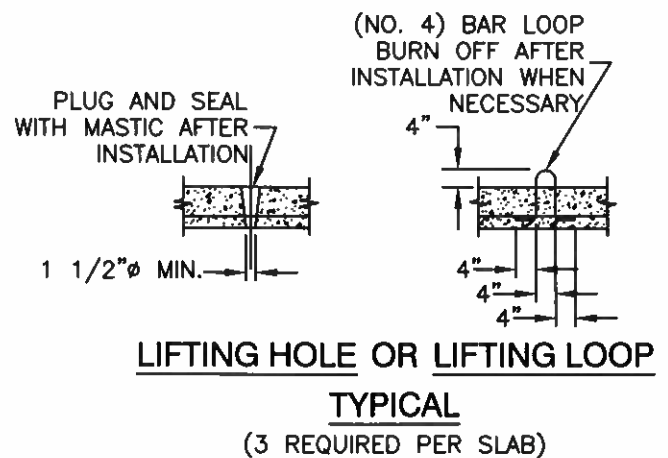
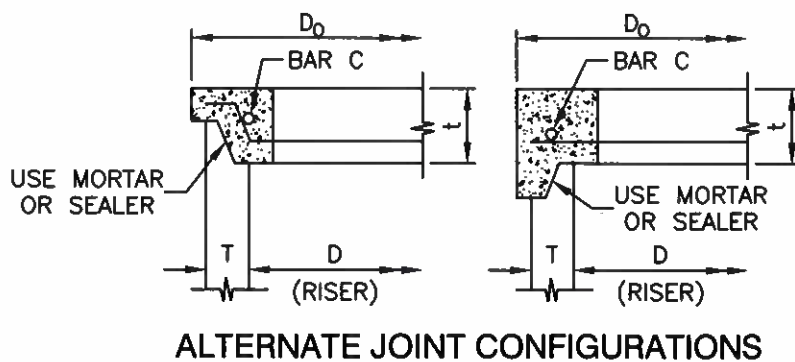
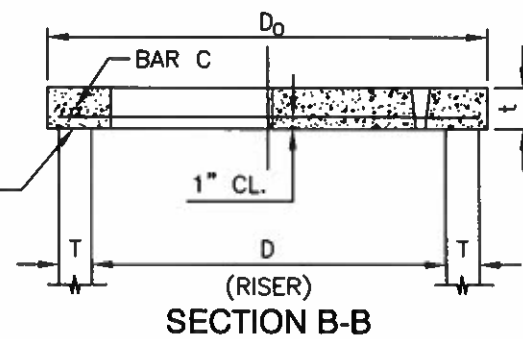
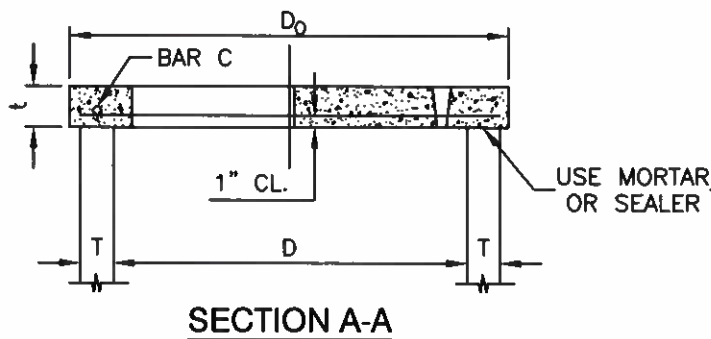
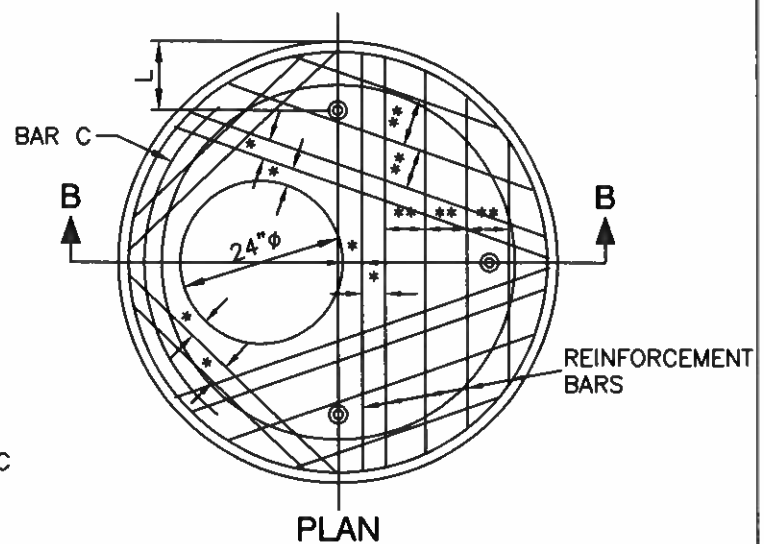
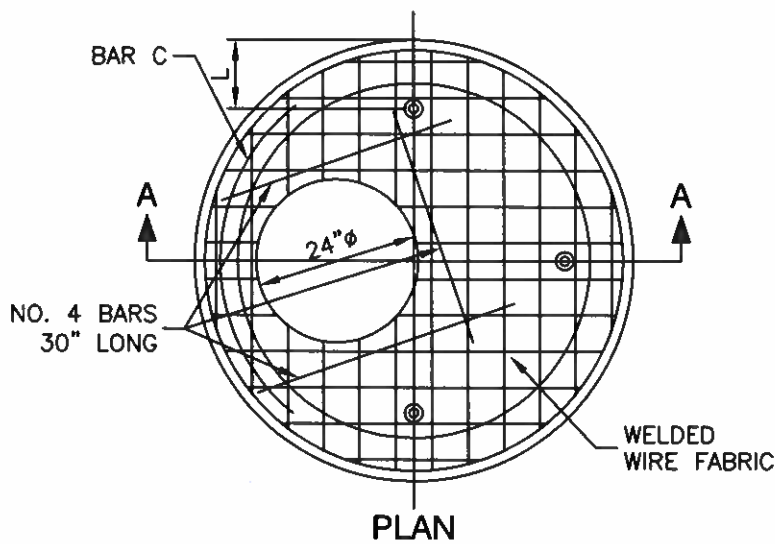
DOWNSPOUTS AND FOOTING DRAINS  
FROM HOMES TO BE CONNECTED  
TO STORM STRUCTURE

### NOTES:

1. CONNECTIONS SHALL BE MADE TO INLET/CATCH BASIN STRUCTURES WHENEVER POSSIBLE.
2. ADS PIPE IS ALLOWED IN REAR YARD STORM SEWERS.
3. HALF BOOT CONNECTIONS REQUIRED TO STORM STRUCTURES.
4. SUMP LINE SHALL BE SMALLER DIAMETER THAN 4" SLEEVE DRAINING TO STORM STRUCTURE.



# PRECAST REINFORCED CONCRETE FLAT SLAB TOP

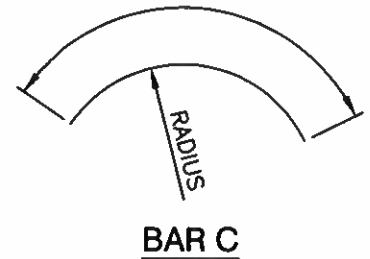


**NOTES:**  
THE FLAT SLAB TOP MAY BE USED IN LIEU OF THE TAPERED TOPS SHOWN ON VALVE IN VAULT DETAIL FOR PRESSURE CONNECTION, TYPE T MANHOLE DETAIL, CATCH BASIN TYPE A DETAIL, OR STORM INHOLE DETAIL AT THE OPTION OF THE CONTRACTOR OR WHEN FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS.

# PRECAST REINFORCED CONCRETE FLAT SLAB TOP

TABLE

D	T	D <sub>0</sub> "MIN."	t	REINFORCEMENT "A's" W.W.F. EACH DIRECTION	OR BAR SIZE	NO. 4 BAR C LENGTH	RADIUS	L
36"	SEE APPLICABLE STANDARDS	$\begin{array}{c} \uparrow \\ D_0 \\ \downarrow \\ 2T \\ \downarrow \\ D \end{array}$	6"	0.20 SQ. INCH/FT.	NO. 4	4'-0"	19"	6"
4'-0"			8"	0.35 SQ. INCH/FT.	NO. 5	4'-0"	26"	9"
5'-0"			8"	0.35 SQ. INCH/FT.	NO. 5	5'-0"	32"	9"



## FLAT SLAB TOP NOTES:

1. CONCRETE SHALL BE CLASS SI FOR CAST-IN-PLACE CONSTRUCTION (OR PC FOR PRECAST) AND MEET THE REQUIREMENTS OF SECTION 1020 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. REINFORCEMENT BARS SHALL HAVE A YIELD STRENGTH OF  $F_y=60,000$  PSI, AND MEET THE REQUIREMENTS OF ARTICLE 1006.10 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
3. TIE WIRE SHALL BE EPOXY COATED.
4. THE ACCESS HATCHES SHALL BE CAST INTO THE SLABS.
5. BARS SHALL BE FIELD CUT SUCH THAT THERE WILL BE 2" OF COVER FROM THE END OF THE BARS ON THE OUTSIDE EDGES. BARS SHALL BE TRIMMED TO 1/2" FROM HATCH FRAME.
6. IF THE FLAT SLAB TOPS ARE TO BE CAST-IN-PLACE (ON THE EXISTING WET WELL AND PROPOSED VALVE VAULT) THEN POLYETHYLENE SHEETS SHALL BE USED AS BOND-BREAKERS BETWEEN THE BARREL SECTIONS OF THE STRUCTURES AND THE SLABS.
7. THE ANCHOR BOLTS FOR THE UPPER GUIDE RAIL SUPPORTS SHALL BE INSTALLED BETWEEN THE TOP AND BOTTOM REINFORCEMENTS MATS SUCH THAT NO REBAR IS DAMAGED DURING THEIR INSTALLATION.

The diagram shows the orthographic projection of a mechanical part, consisting of a front view (top) and a top view (bottom), separated by a horizontal centerline. The part is symmetrical about both the vertical and horizontal axes.

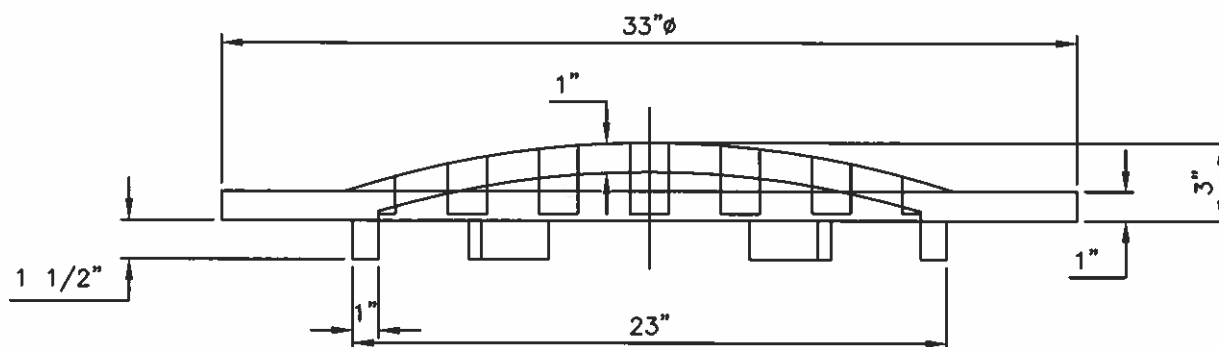
**Front View (Top):**

- The overall width is  $2\frac{1}{2}"$ .
- The overall height is  $2\frac{1}{2}"$ .
- The top surface is a semi-circular arc with a radius of  $3"$ .
- The top surface is divided into six vertical segments by five vertical lines.
- The top surface is divided into two  $30^\circ$  angles by two vertical lines.
- The top surface is divided into two  $30^\circ$  angles by two vertical lines.
- The top surface is divided into two  $30^\circ$  angles by two vertical lines.
- The top surface is divided into two  $30^\circ$  angles by two vertical lines.

**Top View (Bottom):**

- The overall width is  $2\frac{1}{2}"$ .
- The overall depth is  $2"$ .
- The front and back edges are semi-circular arcs with a radius of  $1\frac{1}{2}"$ .
- The top and bottom edges are straight lines.
- The top and bottom edges are divided into six vertical segments by five vertical lines.
- The top and bottom edges are divided into two  $30^\circ$  angles by two vertical lines.
- The top and bottom edges are divided into two  $30^\circ$  angles by two vertical lines.
- The top and bottom edges are divided into two  $30^\circ$  angles by two vertical lines.
- The top and bottom edges are divided into two  $30^\circ$  angles by two vertical lines.

200 lbs.



(GRASS AREAS ONLY)





## **Sanitary Sewer System and Lift Stations Construction Standards and Specifications**

### **General Provisions for Sanitary Sewers and Lift Stations**

The sanitary sewer system and lift stations within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with latest edition of the provisions listed below and provided to serve each property in the subdivision or development, and if possible, to drain towards a primary interceptor sewer.

The design of all sanitary sewer systems shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Illinois Design Standards for Sewage Works
- Illinois Environmental Protection Agency Regulations (IEPA)
- Metropolitan Water Reclamation District of Greater Chicago (MWRD); Frankfort Sanitary District and/or Illinois American Water
- Standard Specifications for Water and Sewer Main Construction in Illinois
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Permit Requirements**

An Illinois Environmental Protection Agency (IEPA) permit as well as a Metropolitan Water Reclamation District (MWRD) permit, Illinois American Water or Frankfort Sanitary District shall each be prepared, submitted for review to the Village Engineer and signed off by the Village. Design Engineer then issued a permit by the permit authorities authorizing the construction of the sanitary sewers and sewer services in the Village before construction begins. See Exhibit A for proper permitting district. A copy of each of the approved permits must be provided to the Village prior to the start of construction.

### **Submittal Requirements**

All required submittal requirements entail:

- Plats
- Permits
- Easement Requests
- Licensing Agreements, etc.
- Other Agencies (ACOE, MWRD, IEPA, County, Frankfort Sanitary District, Illinois American Water, etc...)

All of these finalized, signed and approved items must be submitted to the Village Engineer to allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

All sanitary sewer and lift station work by the Contractor must be approved by the Village Board then coordinated with the Village, County, State, MWRD and other authorities having jurisdiction. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Sanitary sewer coordination shall be done through the Public Works Department. Construction shall be staged to service adjacent properties. Temporary bypass pumping shall be of short duration with a minimum of forty-eight (48) hour notice to the Village Engineer or Public Works Department so the residents affected by this process can be notified and able to arrange their schedules accordingly. An Erosion Control Plan shall be submitted.

All newly constructed sanitary sewers that have not yet been accepted by the Village shall be plugged at the end of each working day and kept clean.

### **Sanitary Sewer Material and Fittings**

Sanitary Sewer shall be constructed of PVC plastic pipe with tracer wire conforming to:

#### **RIM to Invert up to thirty (30') feet**

- Pipe conforming to ASTM D-3034 (SDR 26)
- Elastomeric seals conforming to ASTM D-3212

#### **RIM to Invert greater than thirty (30') feet**

- Pipe conforming to ASTM D-2241 (SDR 21)
- Elastomeric seals conforming to ASTM D-3139

- Fittings shall be PVC SDR 26 heavy wall or C-905 as applicable
- Also acceptable are C-900 (DR 18) for 12" pipe and C-905 (DR 25) for 15"-18" sewers
- Force main shall be constructed of PVC plastic pipe conforming to DR-18 AWWA C-900 with joints conforming to ASTM D-3139
- A minimum of 150 psi pressure class shall be provided for the fittings.

### **Steel Plate Requirements for Roadway Excavations**

- The use of steel plates is required for all projects requiring the cutting of roadway pavement. These standards ensure that the Village pavements are left in the same, if not better, condition than they were found before the project. This will reduce congestion and roadway hazards, as well as increase safety in and out of the construction limits.
- The use of steel plates by Contractors and Utility Companies as a temporary cover over an excavated area in the roadway can present safety hazards and other problems if allowed to remain in place for extended periods and not properly secured or maintained.

- When backfill operations of an excavated area in the traveled way cannot be properly completed within a work day, steel plate bridging will be required.
- See Construction Standards for Roadway section for more detail.

### **Sanitary Sewer Main**

- Sanitary sewers shall be installed and sized to serve all properties in the subdivision or development.
- Sanitary sewers shall be installed a minimum of ten (10') feet horizontal and eighteen (18") inches vertical from any other proposed or existing water main or water service. Sewers to be designed and installed to drain towards a primary interceptor sewer.
- All sanitary sewer mainlines shall be located a minimum of ten (10') feet from any building.
- Sanitary and storm sewer systems shall not be combined.
- Sewers may only be placed in public Right of Way or public/private utility easements. No sewers shall be constructed in rear yard easements, unless approved otherwise.
- Sanitary sewers shall be constructed in straight lines between manholes with at least one (1) manhole every three hundred (300') feet, unless approved otherwise.
- Sewer mains and service stubs to each lot shall be constructed prior to the construction of street pavements.
- Rubber boots/seals must be used where pipes enter manholes. The internal connection shall be tuck-pointed with non-shrink hydraulic cement.

### **Casing Pipes**

- All steel casing pipe shall be bituminous coated.
- A minimum of 30 mils thick, inside and out
- Leak proof constructed and capable of withstanding the anticipated loadings
- Minimum yield strength of 35,000 psi
- Required wall thicknesses shall be as follows:

<b><u>Steel Casing Diameter</u></b>	<b><u>Minimum Wall Thickness</u></b>
20"-22"	0.344"
24"	0.375"
28"	0.438"
30"	0.469"
32"	0.501"
34"-36"	0.532"

### **Sewer Services**

- Service stubs shall be installed to serve all properties in a subdivision or development.
- Services shall be located at the center line of each lot and shall extend to within one (1') foot of the front lot line and connect to main with no shear couplings.
- All service laterals shall be installed to a point eight (8') feet beyond the outside back of curb, plugged and identified by a two by four (2"x4") placed at the plug, painted green.

- Service stubs shall be a minimum of six (6") inches (PVC SDR-26) and located by dimensions provided from the nearest downstream manhole on the As-Built drawings.
- Services larger than six (6") inches, materials shall be in accordance with ASTM standards listed under Materials and Fitting sections above.
- Sewer services are considered private from the sewer main to the building/structure.
- Individual services must be constructed with the most current Village Ordinances and Standard Details.
- Clay tile sewer services shall be replaced with PVC SDR-26 pipe and abandoned at the main or structurally lined with a product approved by the Public Works Department. Pre and Post line televising is required.
- New residential sewer services require a clean-out to be installed within five (5') feet of the foundation and shall be constructed with PVC SDR-26.

### **Manholes**

- Manholes are required where there any change of direction exists or a connection of two (2) or more sewers.
- Manholes shall be a minimum of four (4') diameter, precast concrete sections conforming to ASTM C-478 with a continuous layer of non-hardening, preformed bituminous mastic material or O-Ring Gasket placed at each joint to prevent inflow.
- Membranes shall be provided on the seams and the eccentric cone shall line up with the steel reinforced plastic steps.
- Manhole steps shall be sixteen (16") inches on center and securely anchored in place. Steps shall be copolymer polypropylene reinforced with ½" Grade 60 steel reinforcement meeting OSHA standards.
- All manholes shall have an external chimney seal.
- All manholes shall have a maximum of twelve (12") inches of adjusting rings.
- Watertight flexible connectors shall conform to ASTM C-443 and C-923 with stainless steel bands which shall be provided for connections with the manhole
- All manholes located in floodplain, drainage ditches or other wet locations are required to have bolt down frame and lids – East Jordan Iron Works 1040 ZPT or approved equal. RIM elevations shall be a minimum of twelve (12") inches above base flood elevation. Frames are to be bolted to the cone and cover bolted to frame with stainless steel anchor bolts.
- Lifting holes, concrete section joints, pipe gaps and any other structure joints or openings shall be tuck-pointed with hydraulic cement.
- All connections for pipes shall include rubber gaskets.
- Manholes shall not be located in driveways, sidewalks or roadway crosswalks.

### **Frame and Lids**

- Frames shall be Heavy Duty - East Jordan Iron Works (EJIW) 1020 or approved equal.
- Lids shall be Type A Solid Cover with closed pick holes
- SANITARY and VILLAGE OF TINLEY PARK shall be cast on the lid
- Frames shall be set on a mastic material to prevent inflow as well.

### **Inspection, Testing and Approval**

- A Pre-Construction Meeting shall be scheduled with the Public Works and/or Building Department to discuss the following:
  - Project Contacts
  - Start and Completion Dates
  - Project Timeline (i.e. Village Holidays)
  - Required access for local residents, school buses, garbage trucks, etc...
  - Potential Detour Routes
  - Material Storage Locations
  - Traffic Control and Protection
- Full time inspection may be required by the Village/Consultants while the sanitary sewer system, services and lift stations are being constructed. It is the Developer's responsibility to cover the cost of the inspection services.
- All manholes and sewers shall be thoroughly cleaned and sealed prior to final inspection or acceptance.
- All manholes shall pass a vacuum test. A vacuum of ten (10") inches of Hg shall be placed on the manhole and the following time must expire before more than one (1) inch of Hg dropped. The test time is based on the size of the manhole:

Manhole Diameter (Inches)	Minimum Hold Time
48	1 min
60	1 min 15 sec
72	1 min 30 sec
84	1 min 45 sec

- All manholes that fail shall be sealed and re-tested until acceptable.
  - Frame and adjusting rings shall be in place prior to testing
- All sewer shall pass a mandrel test.
- All sewer shall be televised after installation and a copy of the video and a written report shall be submitted on a flash/zip drive, reviewed and approved by the Village before final approval.
- Televised sewer report shall include the following:
  - Size of sewer mains
  - Service and stub connections
  - Sewer lengths between manholes
  - Vertical view up into each manhole
  - Any and all variances and defects

### **Lift Stations**

- Generators shall be provided for all lift stations. It shall be either a permanent, diesel generator or a natural gas generator located in a permanent vandal and weather resistant enclosure.
- Lift station shall be located on or with a paved roadway or access that is sized to allow the Village's vehicles/equipment during times of maintenance. Landscaping shall also be included to screen the station from the public.

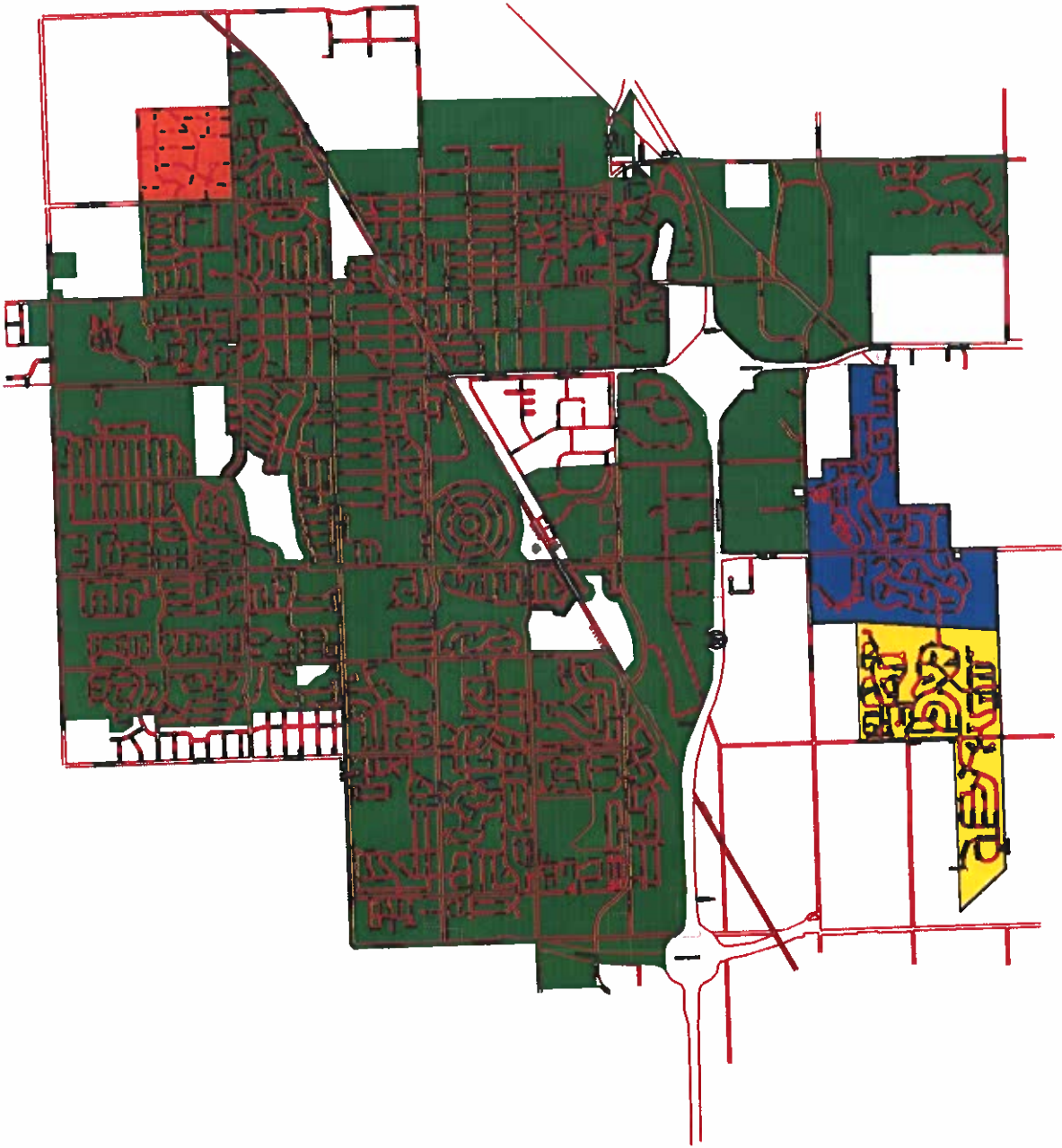


- Drainage for the lift station shall provide positive slopes away from the station. The top of foundation for the station shall be a minimum of two (2') feet above the 100 year flood elevation and allow access during a 100 year storm.
- Piping and valve shall be Class 52 Ductile Iron Pipe (DIP) or approved water main-quality pipe.
- Valve Vault shall include:
  - A two (2) non-clog, full body design with an external lever
  - Weight Operator
  - Removable cover check valves
  - Two (2) eccentric plug valves with resilient seat and external square nut operators
  - A plug valve with a 3-way valve to be used with a by-pass for a portable pump connection
- Slide away couplings shall be provided for each of the pumps to allow the pump to be installed and removed without requiring entering the wet well.
- The coupling shall consist of
  - A discharge elbow fastened to the floor of the wet well.
  - A sliding bracket that bolts to the pump volute.
  - A pump discharge flange that collects with the discharge elbow.
  - A guiding system to direct the pump from the discharge elbow to the access cover at the top of the wet well.
  - Connecting the pump to the discharge elbow shall be accomplished by a linear downward motion.
  - Sealing the pump to the discharge connection shall be accomplished by a machined metal water-tight contact.
  - A hook shall be provided at the top of the wet well to attach the nylon line to when not being used.
  - The working load of the system shall be 50% greater than the unit weight of the pump.
  - Sealing of the discharge interface with a diaphragm, O-ring or profile gasket is not acceptable.
  - No portion of the pump shall sit on the floor.
- Each pump shall be guided by a minimum of two (2) stainless steel guide bars extending from the top of the station to the discharge connection.
- A stainless steel upper guide rail bracket shall position the upper end of the guide rails while the discharge connection shall position the lower end of the guide rails.
- Stainless steel intermediate guide rail supports shall be used if the station depth is greater than fifteen (15) feet deep.
- The use of guide cable is not acceptable.
- A sump pump shall be provided for dewatering the valve vault into the wet well. The pump discharge shall include a check valve.





- The access frame and cover shall include the following:
  - Two (2) aluminum access covers.
  - A minimum live load of 300 lbs. /sq. ft. from the pump manufacturer.
  - Deflection shall not exceed 1/150<sup>th</sup> of the span.
  - All hardware and fasteners shall be 316 stainless steel.
  - Door Standards:
    - Equipped with a grade 316 stainless steel hold open arm with a vinyl grip handle.
    - Locks open in a ninety degree position.
    - Hinges shall be a heavy duty design and shall be grade 316 stainless steel.
    - Door frame shall be aluminum with a continuous 1-1/2 anchor flange.
  - Hatch Requirements:
    - Aluminum lift handles and a locking hasp
    - When hatch doors are locked and closed, they shall be flush to the frame.
    - An aluminum safety grate shall be part of the wet well access cover. It shall be designed to cover the hole per OSHA Standard 1910.23 and include fall through protection and controlled confine space entry.
    - The safety grate shall be made of 6061-T6 aluminum with a minimum ultimate strength of 38,000 psi and a minimum yield strength of 35,000 psi as per ASTM B221.
    - The grate design shall be as per the latest edition of the Specifications for Aluminum Structures by the Aluminum Association, Inc.
    - Welding shall be in accordance with ANSI/AWS D1 .2-90 Structural Welding Code for Aluminum.
    - Aluminum grating shall be designed to withstand a minimum live load of 300 lbs. /sq. ft. or the weight of each pump whichever is greater.
    - Deflection shall not exceed 1/150<sup>th</sup> of the span.
    - Each aluminum grate shall be provided with a permanent grade 316 stainless steel hinging system which will lock the grate in a ninety degree position when opened.
    - Each grate shall have an opening arm with a red vinyl grip handle which will allow opening of the grate while providing grate as a barrier between the operator and the pit.
    - The opening arm shall also be equipped with a controlled confined space entry locking device which will prevent unauthorized entry to the confined space.
    - Grating system shall allow visual inspection to be made without entering the confined space.
    - System design shall assure fall through protection is in place after the door has been closed; therefore protecting the next operator.
    - Grate shall be painted with OSHA type safety orange paint.
    - A ten (10) year written guarantee from the manufacturer shall be provided against defects in materials and workmanship.
- Duplex Concrete Lift Station with Valve Vault
  - Furnish and install a Duplex Pumping Station as manufactured by:
    - Flygt

- Approved equal by the Public Works Department
- System to include:
  - Two (2) pumps (minimum)
  - Discharge elbow
  - Upper and lower guide rail supports
  - Carrier assembly
  - Stainless steel pump lifting chains with stainless steel hooks
  - Access covers with safety hatch
  - Wiring bracket
  - NEMA-3R free standing weatherproof traffic enclosure with a NEMA 1 control panel enclosure
  - Level transducer
  - Back-up floats
- Placement and orientation of structure to be in accordance with dimensions on the drawings.
- Concrete wet well basin and external concrete valve vault shall be provided.
  - Wet well basin:
    - Minimum 7' internal diameter
  - Valve vault:
    - Minimum 7' internal diameter
    - Minimum height of 6'6"
    - 18" diameter x 18" deep sump pit with a steel grate sump pump
    - GFI outlet to use with the sump pump
- Access frame and hinged covers shall be cast into each basin top.
- Pump discharge elbows shall be bolted to the basin floor with stainless steel bolts.
- All hardware and fasteners in the wet well shall be stainless steel.
- Discharge piping from the pump bases shall be mounted in the basin and extend through the basin wall.
- A THERN hoist and base 524 WGAL shall be provided at the wet well.
- A Porta-Con emergency bypass pump coupling system shall be provided at both the wet well and valve vault.
- Interior of the wet well shall be epoxy-lined.
- Electrical Control Panel
  - Main circuit breaker disconnect switch shall be provided.
  - Control Panel shall have a NEMA 3R enclosure:
    - Public Lift Stations shall connect at the Village's SCADA system
    - Include a power generator
    - Dead front with a separate removable inside sub panel to protect the electrical equipment.
  - Programming shall be at the cost of the Developer.
  - Lock hasp shall be provided on outside door.
  - Each pump shall have an individual circuit breaker and a magnetic starter with 3 leg overload protection
  - An alternating relay shall be provided to alternate pumps on each successive cycle of operation.

- Starters shall have auxiliary contacts to operate both pumps on override condition.
- An interlock relay shall be provided to automatically reconnect the control circuit in case of circuit breaker trips on a pump.
- H-O-A switches and run lights shall be supplied for each pump.
- Terminal strip shall be provided for connecting pump and control wires.
- Elapsed Time Meters shall be furnished for each pump and installed in the panel.
- The panel shall include intrinsically safe relays and a GFI convenience outlet.
- The panel shall include a Programmable Logic Controller (PLC). It shall include Industry standard Modbus/Aschii communications protocol:
  - 16 - Digital inputs
  - 12 - Digital outputs
  - 4 - Analog inputs (Model CPU612)
  - 2 - Analog outputs (Model CPU612)
    - Non-volatile EEPROM memory
  - A RACO VSSC16 auto Dialer
  - A Hayes compatible telephone
    - Modem and phone service line connected to PLC
  - A telephone lightning protector for the modem meeting all NEC grounding requirements.
  - Modem shall be battery backed for a minimum of four (4) hours
- A battery back-up system and battery charger shall be incorporated to maintain alarm indication during power outages. All devices shall be labeled with plastic laminated name plates describing the service for which they are intended.

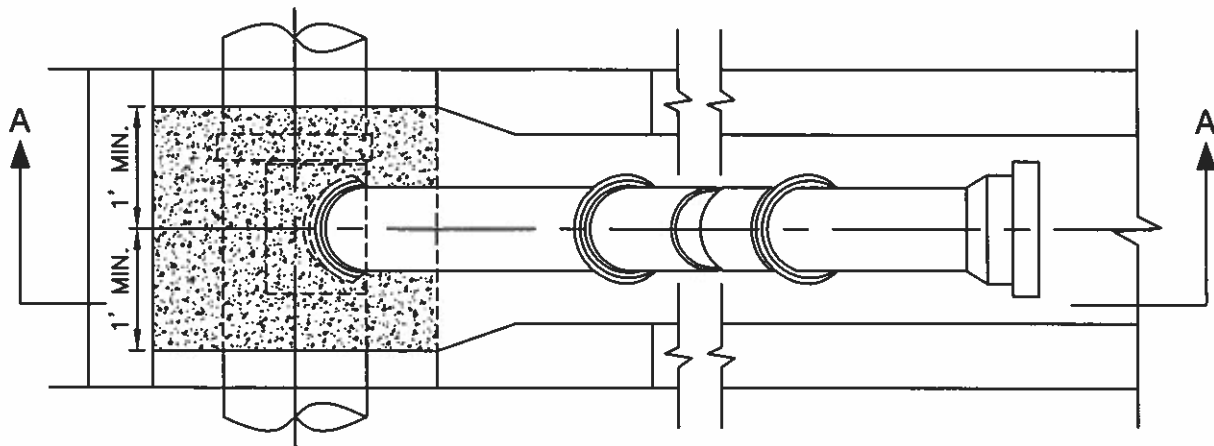


**LEGEND**

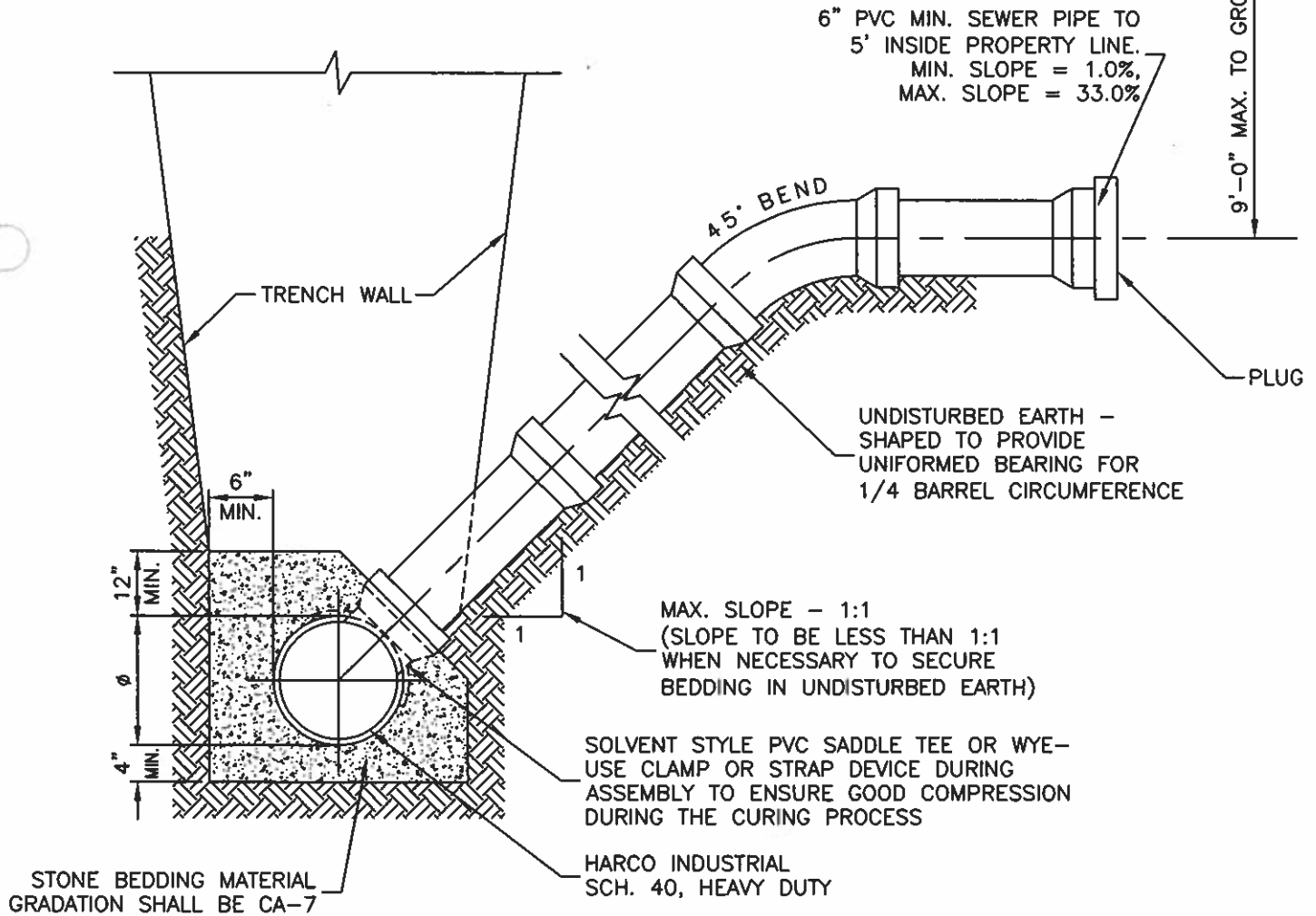
	METROPOLITAN WATER RECLAMATION DISTRICT
	ILLINOIS AMERICAN WATER
	KIMBERLY HEIGHTS SANITARY DISTRICT
	FRANKFORT SANITARY DISTRICT

**EXHIBIT 1**

# TYPICAL SANITARY SEWER SERVICE LATERAL

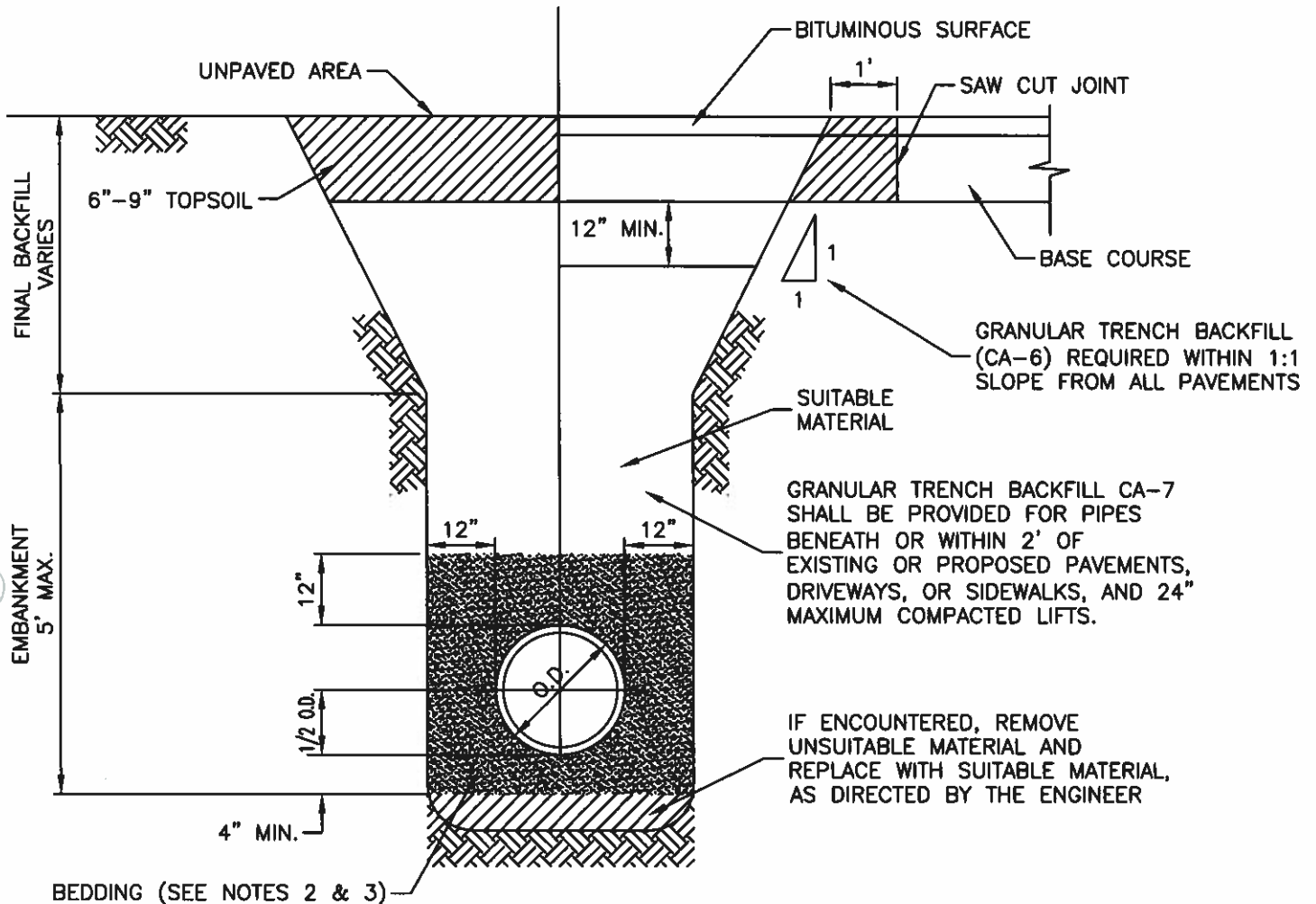


PLAN



SECTION A-A

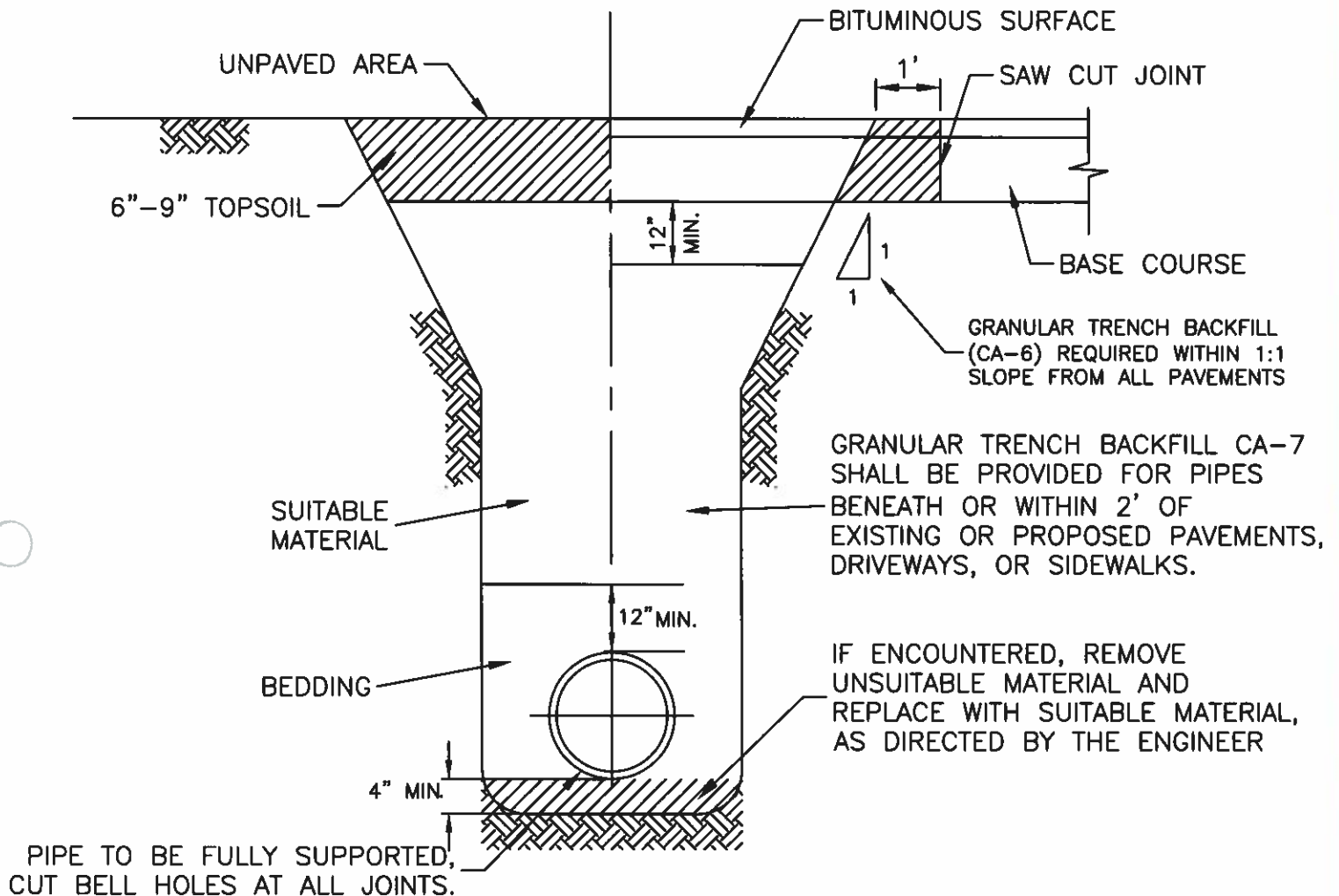
# TRENCH BACKFILL DETAIL FOR SANITARY SEWER



## NOTES:

1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
2. BEDDING SHALL BE REQUIRED TO BE A MINIMUM THICKNESS EQUAL TO  $\frac{1}{4}$  OF THE OUTSIDE DIAMETER OF THE PIPE BUT SHALL NOT BE LESS THAN 4". BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE GRADATION SHALL BE CA-7.
3. FOR PVC PIPE THE BEDDING MATERIAL SHALL BE PLACED A MINIMUM 12" OVER THE TOP OF THE PIPE AND GRADATION SHALL BE CA-7 AND SHALL BE CAREFULLY PLACED SO AS TO FILL THE SPACE UNDER AND AROUND THE PIPE.
4. TRENCH BACKFILL SHALL BE CA-7 TO WITHIN 12" OF THE TOP OF THE TRENCH. TOP FINAL 12" SHALL BE FILLED WITH CA-6.

# TRENCH BACKFILL DETAIL FOR FORCE MAIN

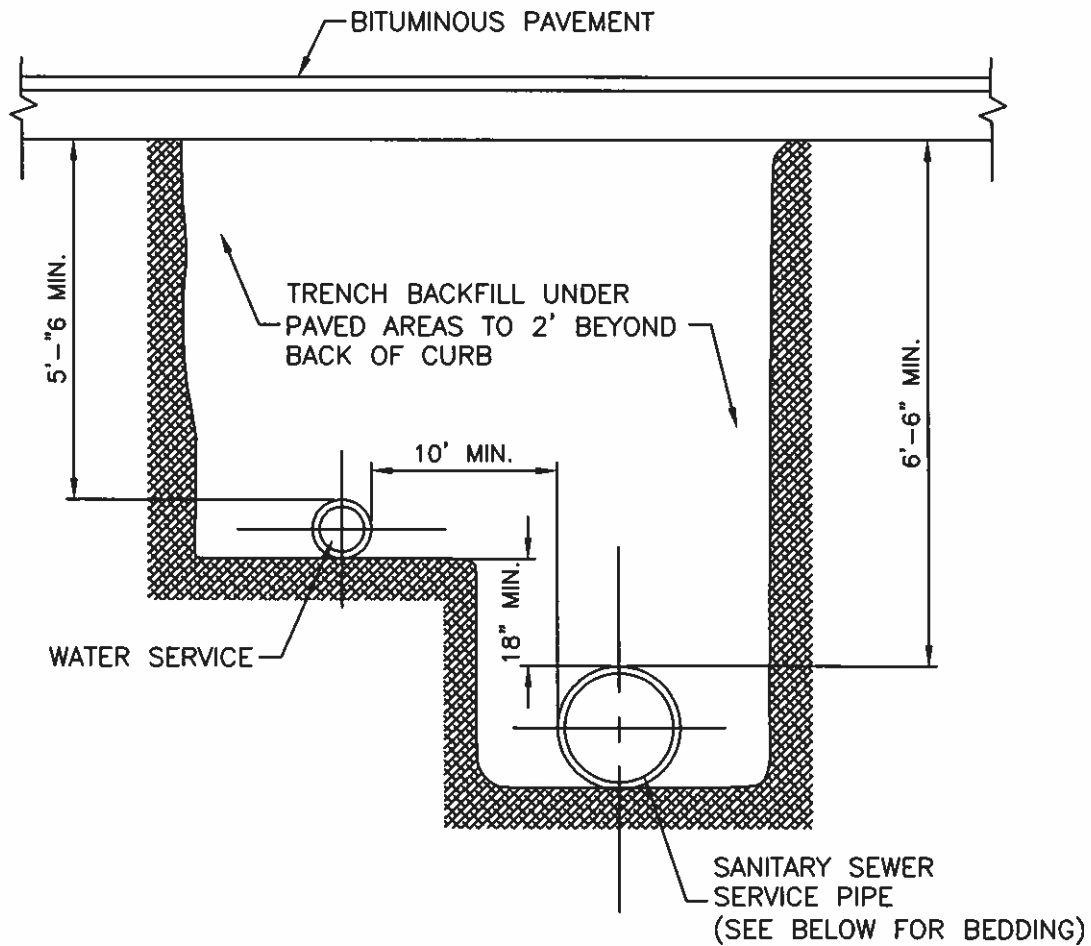


## NOTES:

1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
2. BEDDING SHALL BE REQUIRED TO BE A MINIMUM THICKNESS EQUAL TO  $\frac{1}{4}$  OF THE OUTSIDE DIAMETER OF THE PIPE BUT SHALL NOT BE LESS THAN 4". BEDDING AND HAUNCHING MATERIAL GRADATION SHALL BE CA-7.
3. FOR PVC PIPE THE BEDDING MATERIAL SHALL BE PLACED A MINIMUM 12" OVER THE TOP OF THE PIPE AND GRADATION SHALL BE CA-7 AND SHALL BE CAREFULLY PLACED SO AS TO FILL THE SPACE UNDER AND AROUND THE PIPE.
4. TRENCH BACKFILL SHALL BE CA-7 TO WITHIN 12" OF THE TOP OF THE TRENCH. TOP FINAL 12" SHALL BE FILLED WITH CA-6.

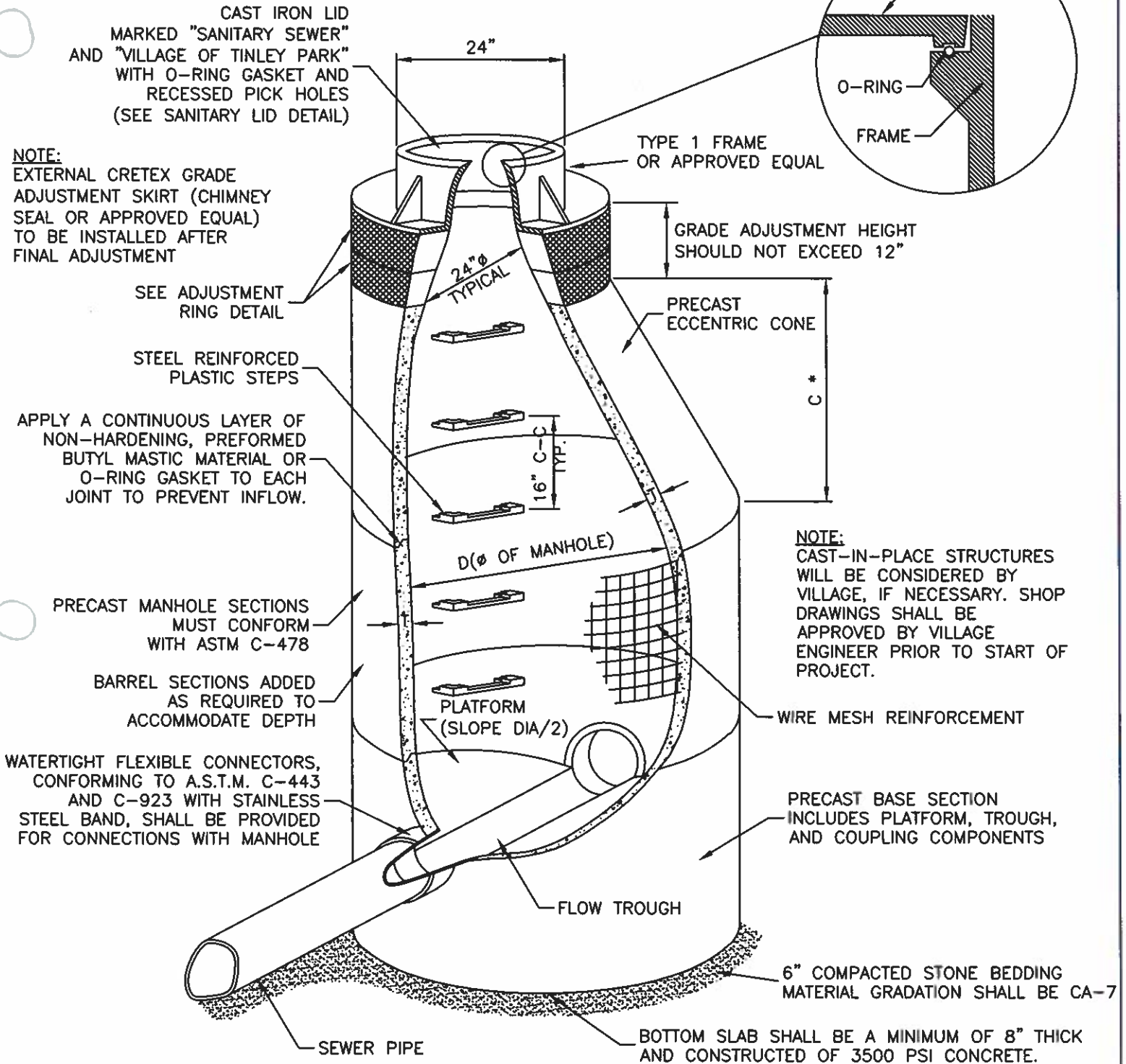


## TRENCH BACKFILL DETAIL FOR SANITARY SEWER & WATER SERVICES



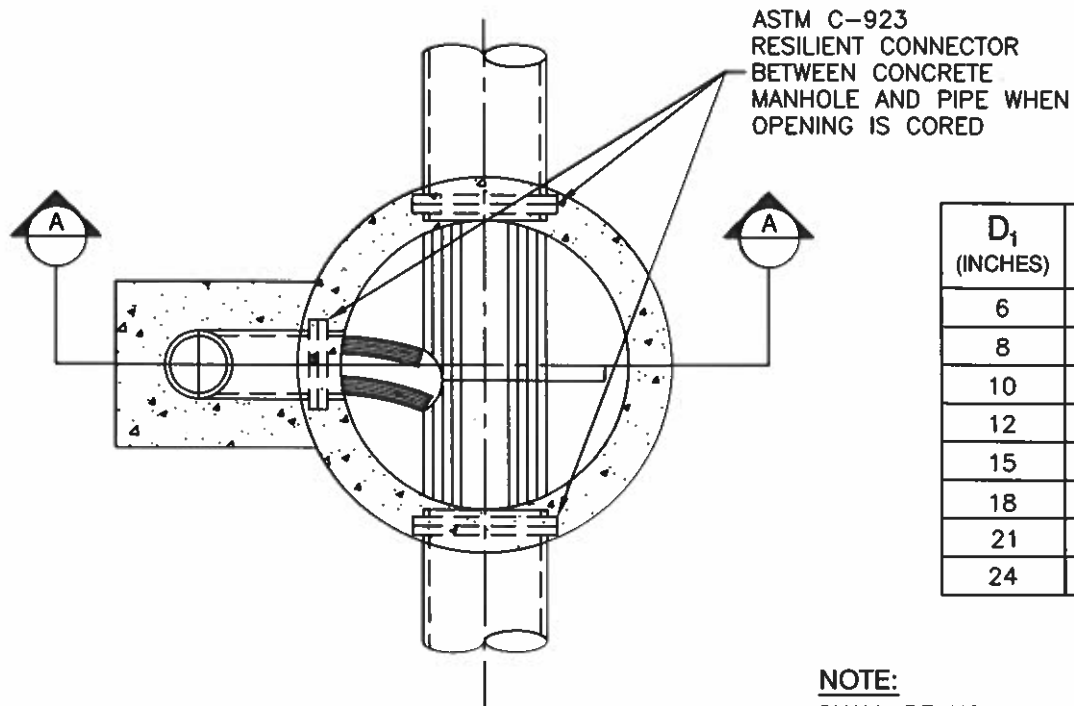
SANITARY SEWER PIPE BEDDING SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, PEA GRAVEL, CRUSHED STONE OR SLAG, 1/4" TO 3/4" IN SIZE. AS A MINIMUM THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ART. 1004.01 OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OF THE STATE OF ILLINOIS.

# SANITARY MANHOLE



ALTERNATE WALL MATERIALS	D	C	T
PRECAST REINFORCED CONCRETE SECTION	4'-0"	2'-6"	4"
	5'-0"	3'-9"	5"
CAST-IN-PLACE CONCRETE	4'-0"	2'-6"	6"
	5'-0"	3'-9"	6"

# STANDARD DROP MANHOLE



SECTION C-C

D <sub>1</sub> (INCHES)	D <sub>2</sub> (INCHES)
6	8
8	8
10	10
12	12
15	12
18	12
21	12
24	12

## NOTE:

SHALL BE NO SMALLER THAN TWO (2) NOMINAL DIAMETERS LESS D<sub>1</sub>, BUT NOT LESS THAN 8".

DETAILS AND MATERIAL FOR DROP MANHOLE SHALL BE SAME AS FOR STANDARD MANHOLE EXCEPT FOR LATERAL SEWER CONNECTION AS SHOWN.

MANHOLE TO BE CAST-IN-PLACE CONCRETE OR TYPE "A" W/ PRECAST CONCRETE SECTIONS AND BOTTOM (AS SHOWN).

MINIMUM WALL THICKNESS "t" FOR DROP MANHOLE:

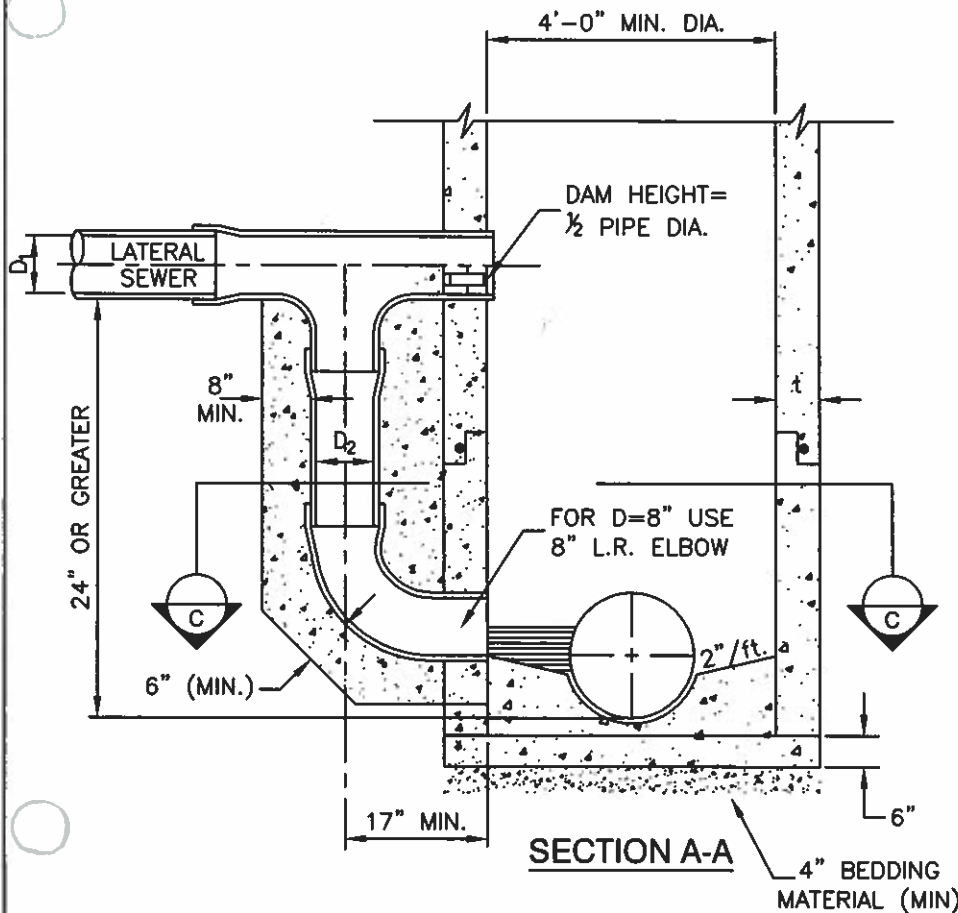
- A. 6" FOR CAST-IN-PLACE CONCRETE
- B. 1/12 MANHOLE DIAMETER FOR PRECAST CONCRETE, BUT NOT LESS THAN 5".

CONCRETE FOR ENCASEMENT SHALL BE 3000 PSI @ 28 DAYS, MINIMUM.

MANHOLE STEPS ARE OMITTED FOR CLARITY. STEPS SHALL BE 16" C-C.

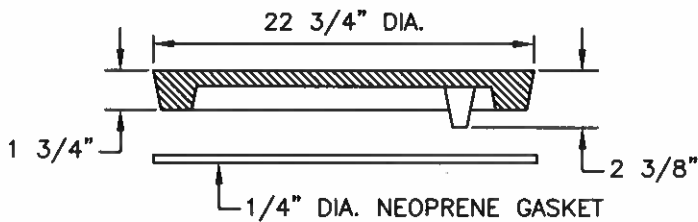
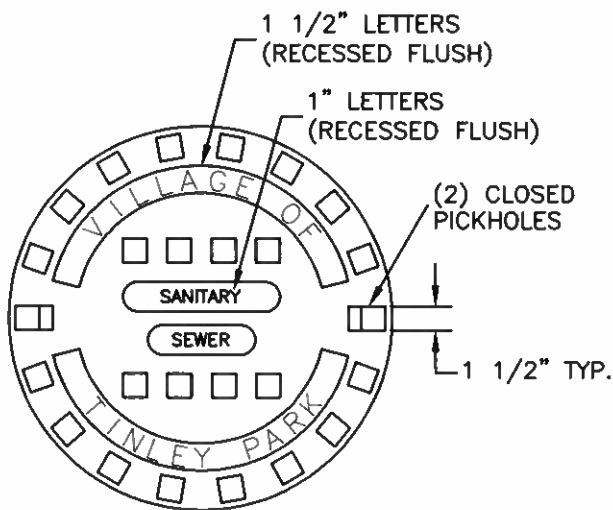
THE "T" AND DROP PIPE SHALL BE DUCTILE IRON PIPE.

CENTERLINE OF DROP SEWER AT SAME ELEVATION AS SPRING LINE OF MAIN SEWER.

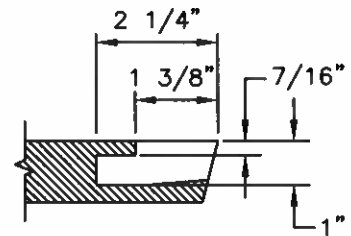
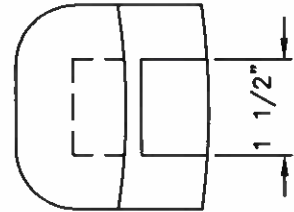


SECTION A-A

# SPECIAL LETTERED SANITARY MANHOLE LID

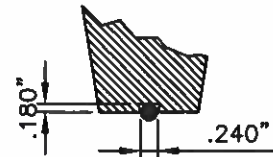


HEAVY DUTY  
EJIW 1020A OR APPROVED EQUAL  
MACHINED BEARING SURFACE  
COVER WT: 115 lbs.



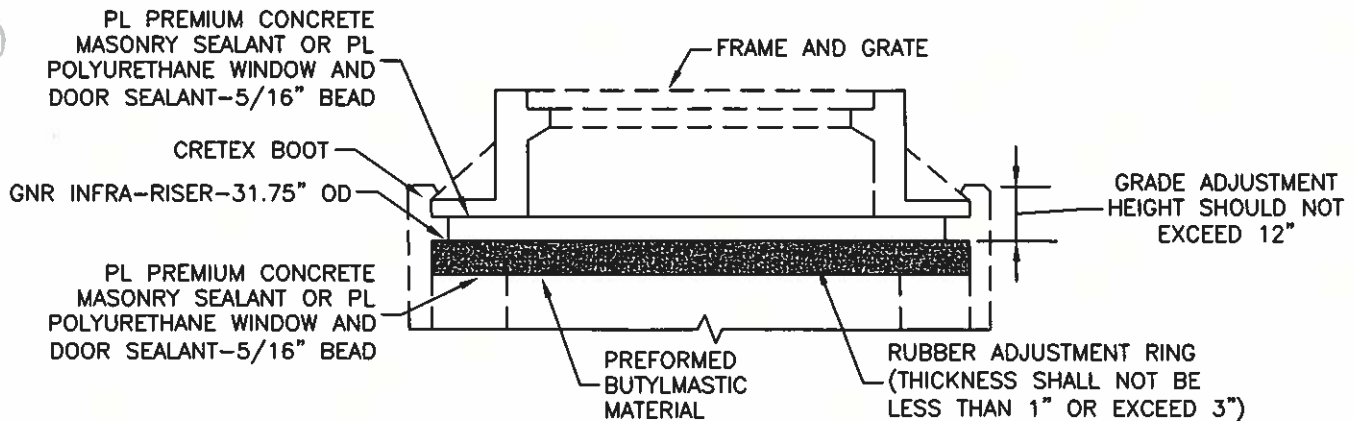
CLOSED PICKHOLE DETAIL

MANHOLE COVER WITH  
GROOVED GASKET SEAL  
& CLOSED PICKHOLES  
TO REDUCE SURFACE  
WATER INFLOW.

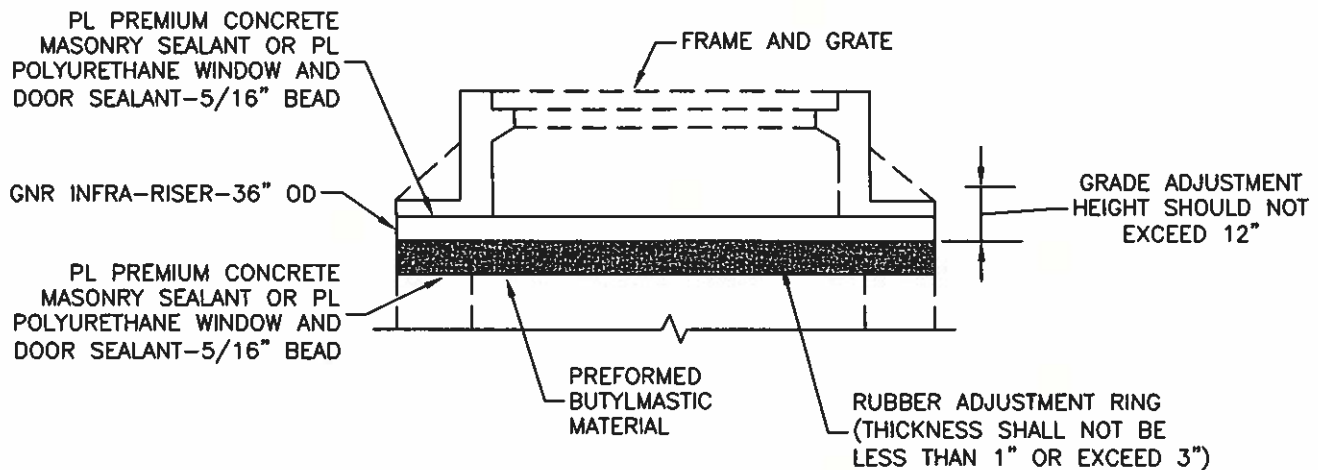


GROOVE DETAIL

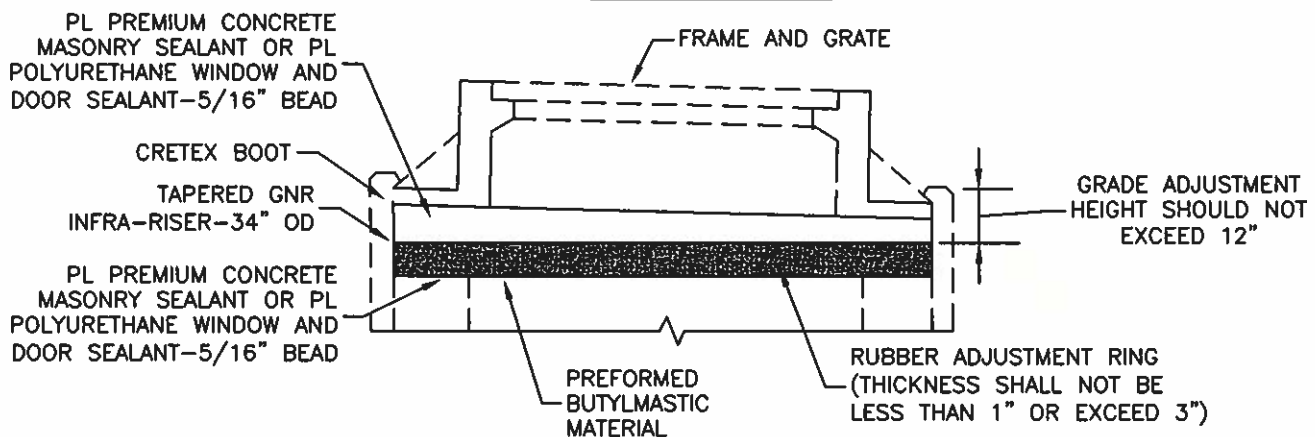
## ADJUSTMENT RING DETAIL



## SANITARY SEWER MANHOLE



## NON-SANITARY SEWER STRUCTURE LEVEL GRADE



## NON-SANITARY SEWER STRUCTURE IN GUTTER

**NOTE:**  
GRADE ADJUSTMENT HEIGHT SHOULD NOT EXCEED 12"





## **Water Distribution System Construction Standards and Specifications**

### **General Provisions for Water Systems**

The water distribution within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with latest edition of the provisions listed below and provided to serve each property in the subdivision or development, and connect to the public water main supply system, as directed by the Master Water Plan of the Village.

The design of all water systems shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Illinois Environmental Protection Agency Regulations
- Cook or Will County Health Department
- Standard Specifications for Water and Sewer Main Construction in Illinois
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications, requirements and standards shall apply:

- Water mains shall not be less than eight (8") inches in diameter.
- Hydrants and shutoff valves shall be included system design.
- New water main systems shall be designed and constructed in complete loops.
- Water main shall have hydrants located at high points.
- Maximum hydrant spacing shall be 300', unless ordered otherwise by Village Engineer and/or Fire Chief.
- Water mains may be required to be a minimum of twelve (12") inches when they are located along the perimeter of a development or are within an Industrial or Commercial Development.
- Water mains shall be a minimum of ten (10') feet clear from any sanitary sewers or sewer services and meet all other Standard Specifications for Water and Sewer Construction in Illinois requirements.
- All water main shall be buried a minimum of five and a half (5-1/2') feet and a maximum of eight (8') feet below grade.
- Construction of water main shall be staged to maintain service to all properties. All temporary shut-downs cannot occur without written permission from the Director of Public Works or Public Works Appointee and shall be of short duration.
- All water main shall be located in public Right of Way or Drainage and Utility Easements. Water mains not located as such shall be considered private and the full responsibility of the property owner. A valve shall be installed to separate public and private ownership.

- Private water mains shall have a valve in the Right of Way or easement that allows the Village to shut off the service should damage occur to the water main or service. Repairs are the responsibility of the property owner.
- All changes in direction shall be restrained and thrust blocked.

### **Permit Requirements**

An Illinois Environmental Protection Agency (IEPA) permit shall be prepared, submitted for review to the Village Engineer and signed off by the Village, Design Engineer and issued by the permit authorities authorizing the construction of the water mains in the Village before construction begins. A copy of each of the approved permits shall be provided to the Village Engineer prior to the start of construction.

### **Submittal Requirements**

All required submittal requirements entail:

- Plats
- Permits
- Easement Requests
- Licensing Agreements, etc.
- Other Agencies (ACOE, MWRD, IEPA, IDOT, Will and/or Cook County, etc.)

All of these finalized, signed and approved items must be submitted to the Village Engineer to allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

All water main work by the Contractor shall be approved by the Village Board then coordinated with the Village, County, State, Railroad and other authorities having jurisdiction. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Watermain construction coordination shall be done through the Public Works Department. Construction shall be staged to service the adjacent properties. An Erosion Control Plan shall be submitted.

All newly constructed water mains that have not yet been accepted by the Village shall be plugged at the end of each working day and kept clean.

Upon completion of construction, As-Builts shall be prepared, submitted and approved by the Village Engineer showing the exact location of all services, water mains, valve vaults, shut-off valves and similar facilities. See Village Record Drawing Requirement Section.



## **Water Main Material and Fittings**

- Water mains shall be constructed of bituminous coated, cement lined ductile iron pipe (DIP), Class 52 and poly-wrapped, except where unstable foundation conditions or aggressive soil conditions indicate to the Village Engineer that pipe of another material would be more satisfactory.
- All ductile iron water main and fittings shall be polyethylene tube encased.
- Joints shall be push-on compression gasket joints.
- Shall conform to ANSI A-21.51 (AWWA C-151) or AWWA C-900 for eight (8") inch through twelve (12") inch main and C-905 for fourteen (14") through twenty-four (24") main with tracer wire for all PVC water main. Tracer wire shall be accessible through valve boxes or valve vaults. PVC water main shall be poly-wrapped. All PVC water main shall be approved by the Village prior to installation.
- Cement mortar lining shall conform to ANSI A-21.4 (AWWA C-104).
- Water mains located in Industrial and Commercial Developments shall include shut-off valves and fire hydrants.
- Meg a Lug Series 1100 or approved equal shall be used to restrain all mechanical joint fittings, valves, hydrants, etc.
- All pipe shall be furnished with a depth mark to assure that the spigot end is inserted to the full depth of the joint.

## **Water Services**

- Individual services shall be connected to the mainline and serve each adjoining lot, tract or building site.
- Each service shall extend from the main to a point at least eight (8') feet beyond the outside curb line. Connection shall be a one-foot (1') clamp with a full circle c-clamp closure (i.e. Power Seal Clamp).
- Water services shall be a minimum of one (1") inch, Type K copper with no couplings and terminated at a shut-off valve and B-Box for each Single-family Residence.
- Water services larger than two (2") inches shall be constructed of cement lined ductile iron pipe, Class 52, unless approved by the Village Engineer and agreed to be private.
- All water services shall be of the size and materials specified by the Public Works Department and sized based on the plumbing requirements and fixture needs.
- All service taps shall be supported by a saddle or full sleeve clamp. Service taps over 1" shall be epoxy-coated and supported by stainless steel straps. A c-clamp is acceptable.
- Services larger than two (2") inches shall be made with a stainless-steel tapping tee (split tee) with epoxy-coated, stainless steel bands (1-1/2" or 2") to connect to Village water main or as approved by the Village Engineer. Shut off valve shall be no further than two (2') feet from the main. These shall enter the building with a riser spool and piece and threaded rod.
- B-Boxes shall not be located in sidewalks or driveways or buried underground. To be located 18" in front of sidewalk. If sidewalk doesn't exist, it shall be 7-1/2' from the front lot line. A precast base shall be provided to insure stability.
- Services shall not be backfilled until inspected by the Village.
- As-Builts shall be prepared and submitted to the Village Engineer showing the exact location of all services, water mains, manhole, shut-off valves and similar facilities. See Village Record Drawing Requirement Section.



- At all re-development locations, all undersized water services and lead services must be abandoned at the main and replaced back to the water meter. Lead services and contaminated soils shall be removed and shipped to an appropriate landfill for disposal.
- Water services are the property owner's responsibility from the facility to the B-Box or service valve.
- Service couplings will only be permitted if the service line exceeds one hundred (100') feet for a one (1") inch line or sixty (60') feet for a one and a half (1-1/2") inch or two (2") line. No couplings shall be permitted under any paved surface, including sidewalks, driveways, driveway aprons and roadways.
- Domestic water services that tap off a fire service line require the main to be sized to satisfy the demand for fire and domestic water flows with a separate shut off for the domestic water. Tap on fees should be discussed with Community Development personnel.

### **Water Meters**

- Village is sole owner of all water meters used for tracking consumption for billing purposes.
- Water meter type shall be approved by Public Works Director per Ordinance 50.050.
- Only Sensus© meters are allowed to be installed in the Village.
- Meters must be purchased through Community Development or Public Works Department.
- Water Superintendent shall determine the Sensus© model type that is acceptable to the Village.
- New Construction is responsible for the installation of the meter(s).
- Inspection shall be scheduled with the Public Works Department to verify proper meter installation and wire components.

### **Fire Hydrants**

- Hydrants shall be East Jordan Iron Works Watermaster© 5BR250.
- Hydrant system shall include a resilient seated gate valve and tested to 300 psi.
- Hydrants shall have a six (6") inch barrel along with two (2), two and one-half (2-1/2") inch hose connections and one, four and one-half (4-1/2") inch pumper nozzle.
- Hydrant shall connect to main with six (6") inch valve and include a valve box stabilizer.
- Hydrants shall be installed at intervals of three hundred (300') feet. All spacing shall be approved by the Village Engineer and Village Fire Prevention.
- Hydrants shall be located a minimum of three (3') from the back of curb, two (2') from the edge of a bike path or sidewalk and five (5') from a driveway.
- Hydrant shall be constructed facing toward the curb over a washed gravel base of 3/4" stone and covered by a membrane. Laterals shall be less than five (5') in length.
- Hydrant shall have a six (6') foot bury and the center of the pumper nozzle a minimum of two (2') feet above finished grade.
- Hydrant shall have a breakaway flange and connections. Hydrant breakaway shall be six (6") inches above finished grade.
- Hydrants shall be painted yellow.
- Four (4) Meg a Lug restraints shall be provided at each joint from the mainline tee to the auxiliary valve and between the auxiliary valve and hydrant barrel. Any hydrant repairs or replacement require replacement of all the bonnet bolts and packing bolts. Replacement bolts shall be stainless steel.
- No water shall flow from a Village hydrant unless an authorized Village representative is present. Maintenance is property owner's responsibility. Hydrant meter with RPZ is required and shall be obtained from the Public Works Department.

## **Valves**

- Water valves shall be provided at each branch main connection and elsewhere as required to permit adequate sectionalizing for maintenance purposes.
- Gate valves shall be used on water main 12" and smaller. Valves shall open turning counter-clockwise. Located a maximum of eight hundred (800') feet apart.
- Butterfly valves shall be used for water main 16" and larger, except tapping valves. Each butterfly valve shall be furnished with a manual operator with a two (2") inch square operating nut. The operator shall open the valve counter-clockwise.
- Valves shall be iron body resilient wedge gate valves with bronze mounted seats and non-rising stems conforming to AWWA C-509 and tested to 300 psi.
- Valves shall have mechanical joints.
- Valves shall be Clow, Mueller or approved equal.
- Valves shall not be located in driveways or sidewalks without prior permission.
- Valve shall align with center of frame opening.
- All nuts and bolts shall be stainless steel.
- No valves shall be turned unless a Public Works or authorized Village representative is present.

## **Valve Vaults**

- All shut off valves are required to be in a vault, unless approved by the Village Engineer.
- Valve vault shall be a minimum of five (5') foot diameter precast, reinforced concrete. Five (5') foot diameter vaults for ten (10") inch main and under; six (6') foot diameter vault for twelve (12") mains and larger meeting ASTM C-478 specifications,
- All holes and joints shall be tuck-pointed.
- The operating nuts of the valve shall be accessible through the frame and lid.
- Steel Reinforced Plastic steps shall be provided and be sixteen (16") inches on center.
- Shall sit on a minimum of four (4") inches of compacted gravel
- Pipe opening shall be precast with resilient rubber water tight pipe sleeves.
- Pick holes shall not create openings through the vault cover.

## **Frame and Lids**

- Frames shall be Heavy Duty - East Jordan Iron Works (EJIW) 1020A
- Lids shall be Type A with closed pick holes
- WATER and VILLAGE OF TINLEY PARK shall be cast on the lid
- Frames shall be set on a mastic material to prevent inflow as well.

## **Pressure Taps**

- Connections to all Village water mains shall be pressure connections unless otherwise approved by the Village Engineer.
- Any cutting-in-sleeves shall be coordinated with Public Works Department.
- Pressure tap materials shall be ductile iron with stainless steel tapping sleeves and stainless-steel bolts.
- All new materials and exposed pipe shall be disinfected prior to connection.
- Cut-In sleeves shall be Romac or approved equal.

## **Steel Plate Requirements for Roadway Excavations**

- The use of steel plates is required for all projects requiring the cutting of roadway pavement. These standards ensure that the Village pavements are left in the same, if not better, condition than they were found before the project. This will reduce congestion and roadway hazards, as well as increase safety in and out of the construction limits.
- The use of steel plates by Contractors and Utility Companies as a temporary cover over an excavated area in the roadway can present safety hazards and other problems if allowed to remain in place for extended periods and not properly secured or maintained.
- When backfill operations of an excavated area in the traveled way cannot be properly completed within a work day, steel plate bridging will be required.
- See Construction Standards for Roadway section for more detail.

## **Inspection, Testing and Approval**

- A Pre-Construction Meeting shall be scheduled with the Public Works and/or Building Department to discuss the following:
  - Project Contacts
  - Start and Completion Dates
  - Project Timeline (i.e. Village Holidays)
  - Required access for local residents, school buses, garbage trucks, etc...
  - Potential Detour Routes
  - Material Storage Locations
  - Traffic Control and Protection
- Full time inspection may be required by the Village/Consultants while the water system and services are being constructed. For new developments, it is the Developer's responsibility to cover the cost of the inspection services.
- All water main shall be pressure tested as per Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition and thoroughly disinfected as per AWWA Standard C851-92.
- All new water main shall be subject to a hydrostatic pressure test of no less than one-hundred and fifty (150 psi) pounds per square inch (PSI) for a period of two (2) hours with no loss. The Village has the right to extend the duration of the test up to six (6) hours.
- Water samples and pressure testing shall be coordinated and observed by Village Representative or Licensed Village Water Operator. After three (3) failed tests, a site coordination meeting may be necessary and an additional re-inspection fee charged.
- The newly installed water main system shall be tested by a Certified IEPA laboratory. Samples shall be collected by a representative with or hired by the Contractor. The testing shall ensure the mains are not bacteriologically contaminated. Two (2) consecutive tests where samples are collected twenty-four (24) hours apart shall pass the laboratory tests. The Village has the right to collect a sample as well and have it tested to ensure the samples submitted to the laboratory are from the same location. This testing procedure shall be paid for by the Contractor.
- One failed sample may require an additional sample to be taken; two failed samples may require a re-chlorination of the main.

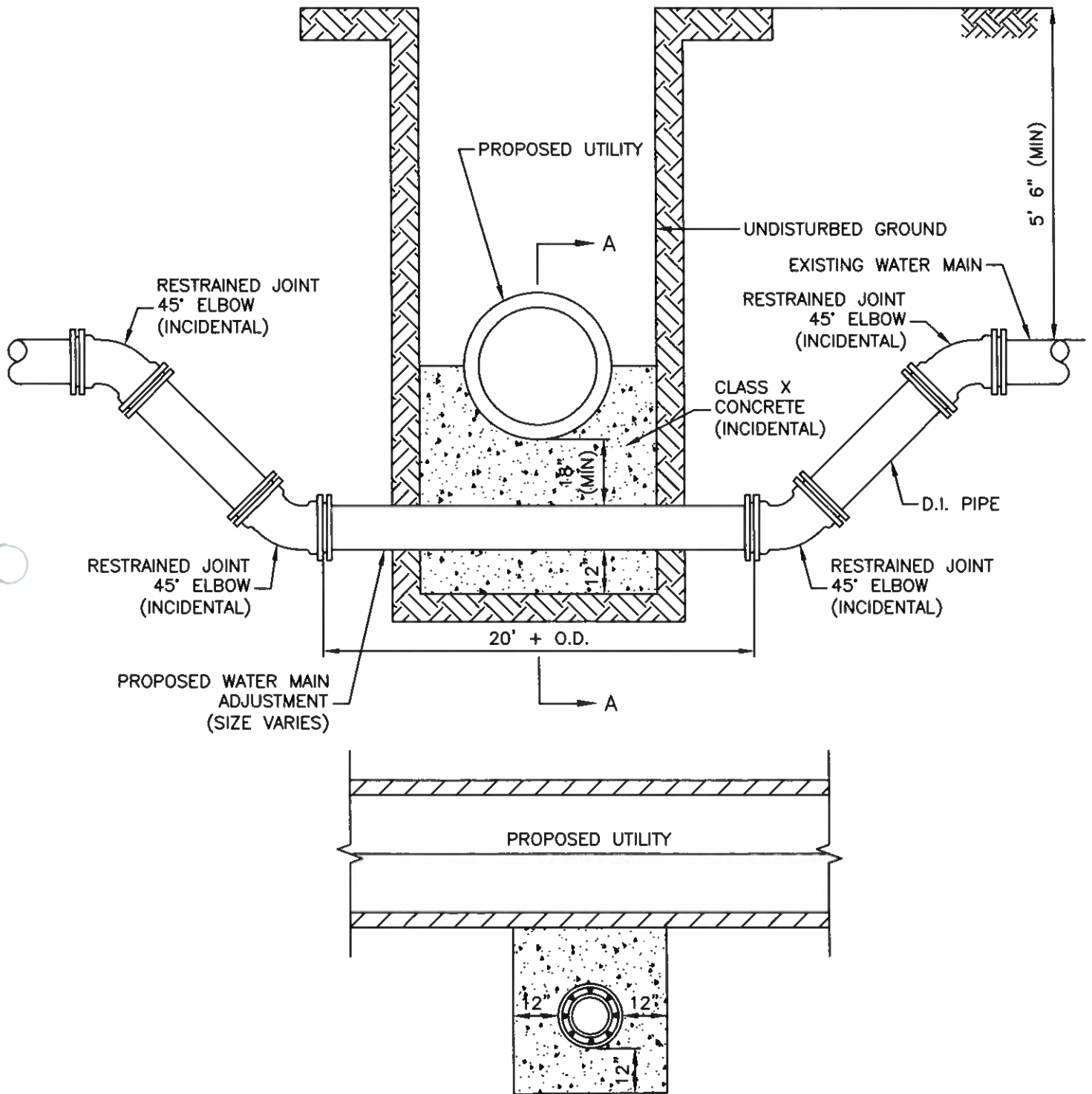
- Flushing of the mains prior to sampling and pressure tests shall be coordinated with Public Works Department a minimum of forty-eight (48) hours in advance to remove contaminated materials and solids that may have occurred during construction.
- Cautions shall be followed to ensure testing materials and non-approved water do not flow into active mains.
- All valve vaults shall be sealed and tuck-pointed to the satisfaction of the Village so infiltration cannot and will not occur and may be subject to a vacuum test at the Contractor's expense.

### **Chlorination Standards**

All Contractors disinfecting water system components using gas chlorine shall abide with the following requirements:

- Procedure
  1. Minimum of twenty-four (24) hour notice before chlorinating. Call 708-444-5500 to schedule chlorination.
  2. Only authorized Village employees shall operate water system valves and turn on/off sampling whips while samples are being collected.
- Equipment
  1. All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc.
- Requirement for Chlorinating Contractors
  1. Chlorinator must be a licensed plumber or certified Illinois water operator with a minimum of five (5) years of experience and a minimum of five (5) years of experience working with chlorine disinfection of water supply systems.
  2. Chlorination contractor must be bonded and insured, and have proof of both on file with the Village.
  3. Chlorination contractor must have updated emergency phone numbers on file with the Village.
  4. Chlorination contractor must comply with State and Federal regulations regarding transportation and handling of chlorine cylinders.
    - a. Shipping and emergency papers for every job location
    - b. Proof of Insurance for hauling and handling chlorine gas
    - c. Commercial Driver's License with Hazmat endorsement and medical card
    - d. Copy of Emergency Response Guidebook in vehicle
    - e. Hazmat Certificate of Registration
    - f. Hazardous material placards displayed on vehicle
- Under no circumstances shall chlorine Contractors be allowed to apply heat to the chlorine cylinder (i.e. hot baths, propane torches, etc.). While the cylinder is being used it must be in a vertical position, as well as being affixed to a solid object.
- Prior to work, the Chlorinator must provide a detailed written chlorination and flushing plan to the Village for review and approval.
- At any time, the Village, or its authorized representative, may ask for proof of any or all of the above information. If you have any questions please feel free to contact the Village of Tinley Park Public Works Department.

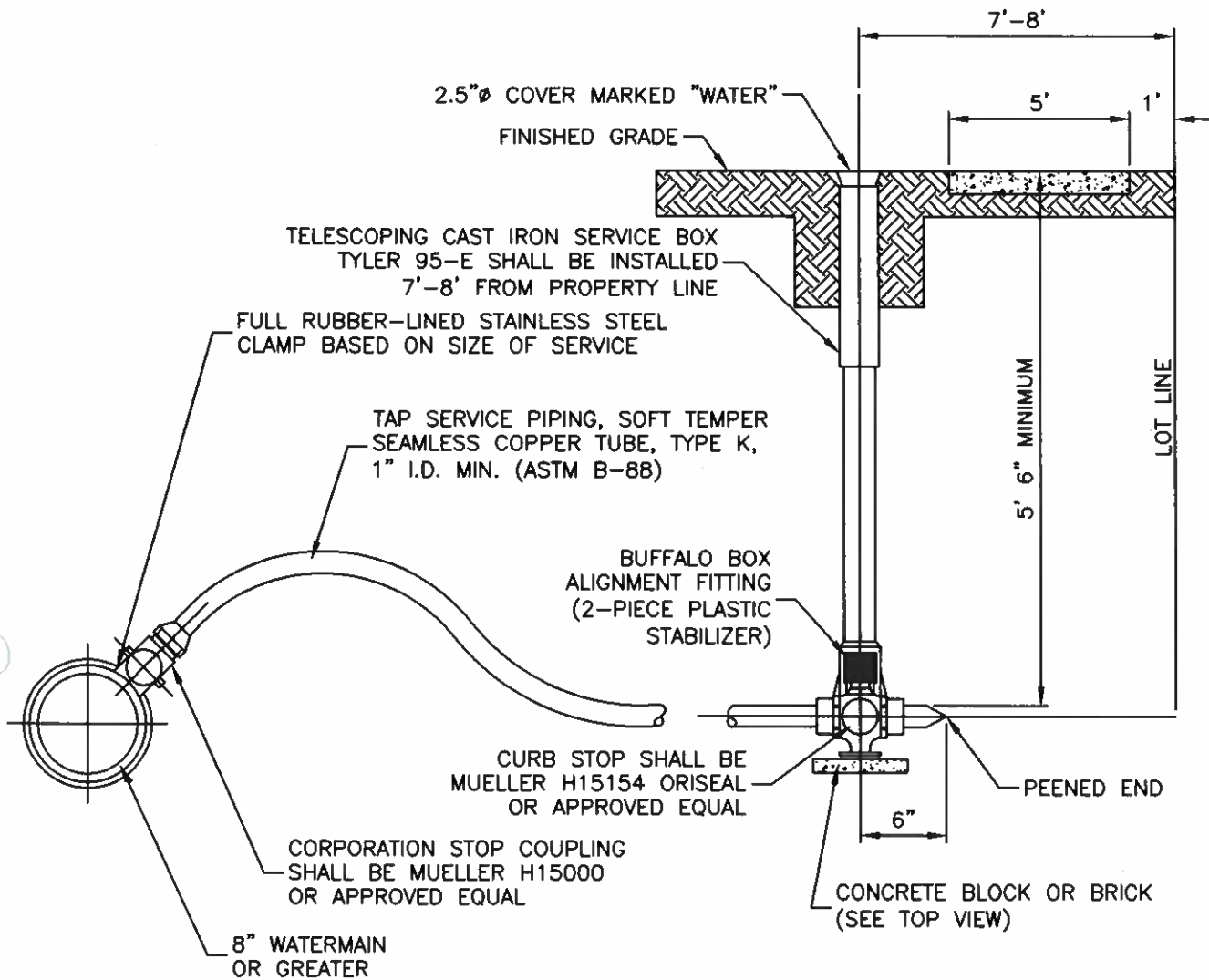
# 



### NOTES:

1. GRAVITY SEWER TO BE WATERMAIN QUALITY PRESSURE FOR A MINIMUM DISTANCE OF TEN FEET (10') ON BOTH SIDES OF THE OUTSIDE WALL OF THE WATERMAIN.
2. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATERMAIN AND SEWER SHALL COMPLY WITH IEPA REQUIREMENTS.
3. ALL CROSSINGS IN CONCRETE SHALL BE IN A SLEEVE.

# TYPICAL WATER SERVICE INSTALLATION



TOP VIEW

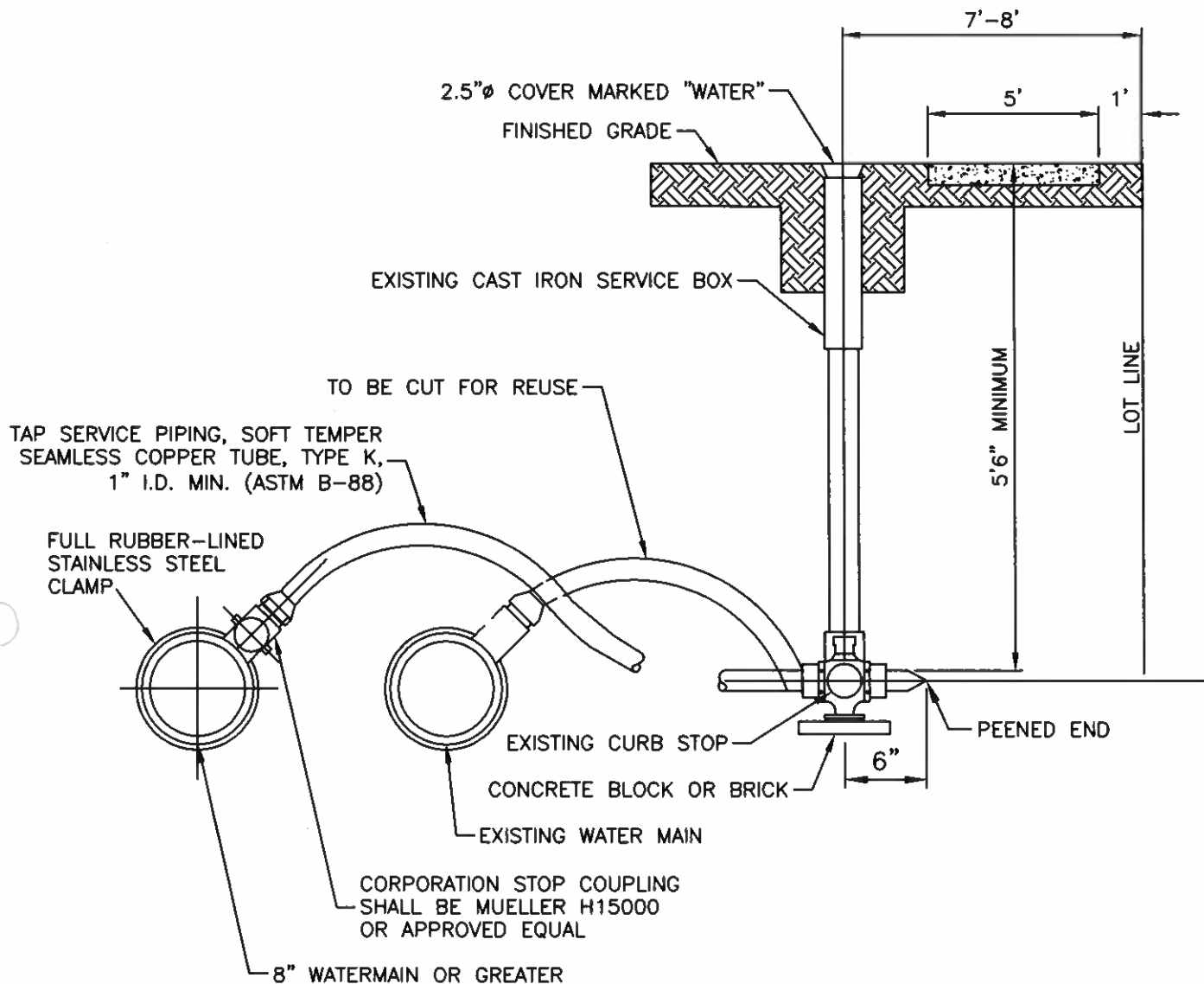
SERVICE PIPE	CORP STOP	CURB STOP	SERVICE BOX
1"	1"	1"	2 ½"
1 ¼"	1 ¼"	1 ¼"	3"
1 ½"	1 ¼" x 1 ½"	1 ½"	3"
2"	1 ½" x 2"	2"	3"

**NOTE:**

1. BUFFALO BOX ON WATER SERVICE LINES SHALL BE INSTALLED IN THE CENTER OF THE LOT, 7'-8' FROM PROPERTY LINE, AND NEVER IN SIDEWALK OR DRIVEWAY. VALVE SHALL BE MINNEAPOLIS STYLE.

# TYPICAL WATER SERVICE RECONNECTION

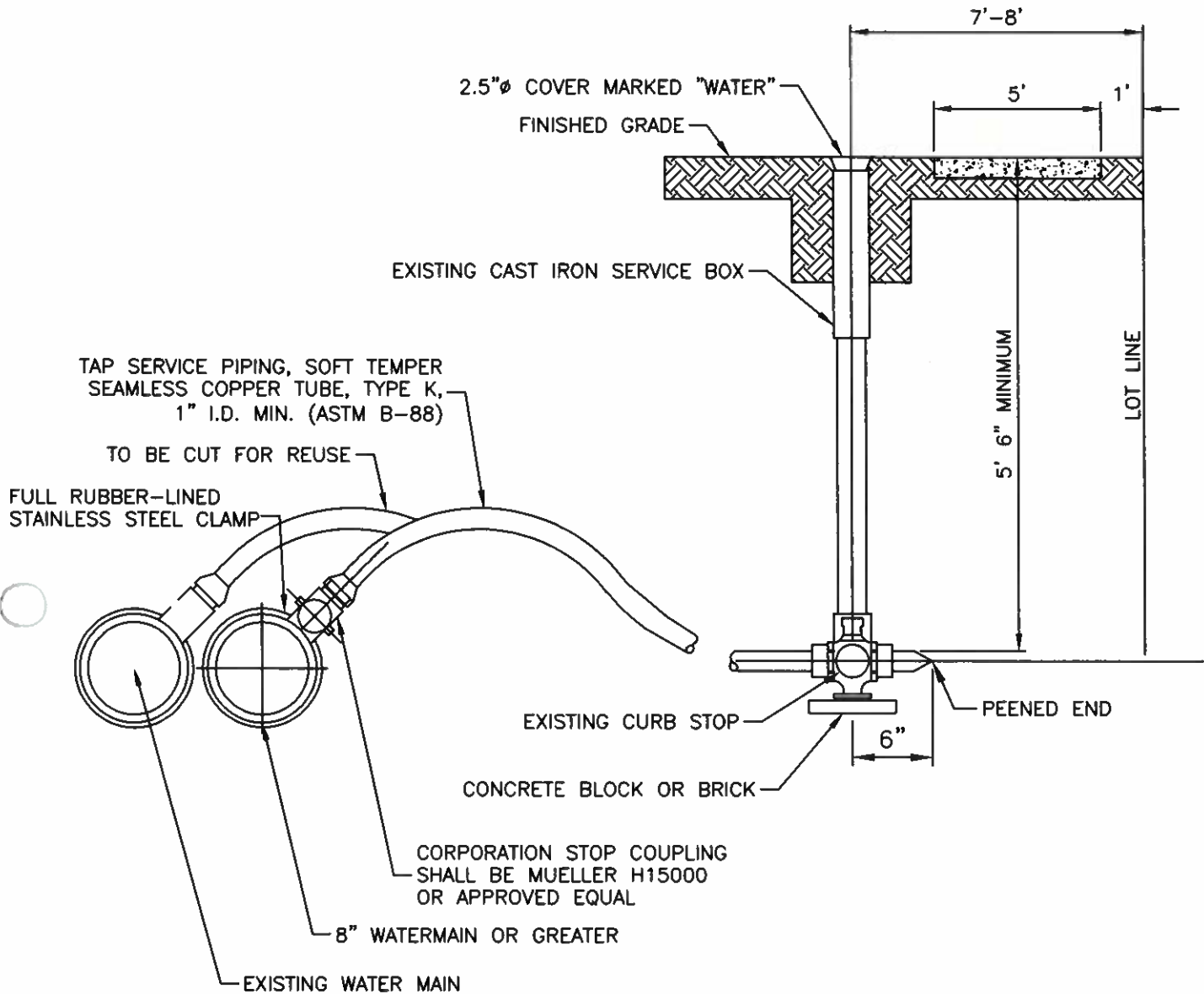
(SHORT SIDE)



## NOTE:

1. THE RECONNECTION SHALL NOT OCCUR UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND APPROVED FOR SERVICE.
2. THE RECONNECTION SHALL BE MADE FROM THE EXISTING B-BOX PIPE TO THE NEW CORPORATION STOP.

# TYPICAL WATER SERVICE RECONNECTION (LONG SIDE)

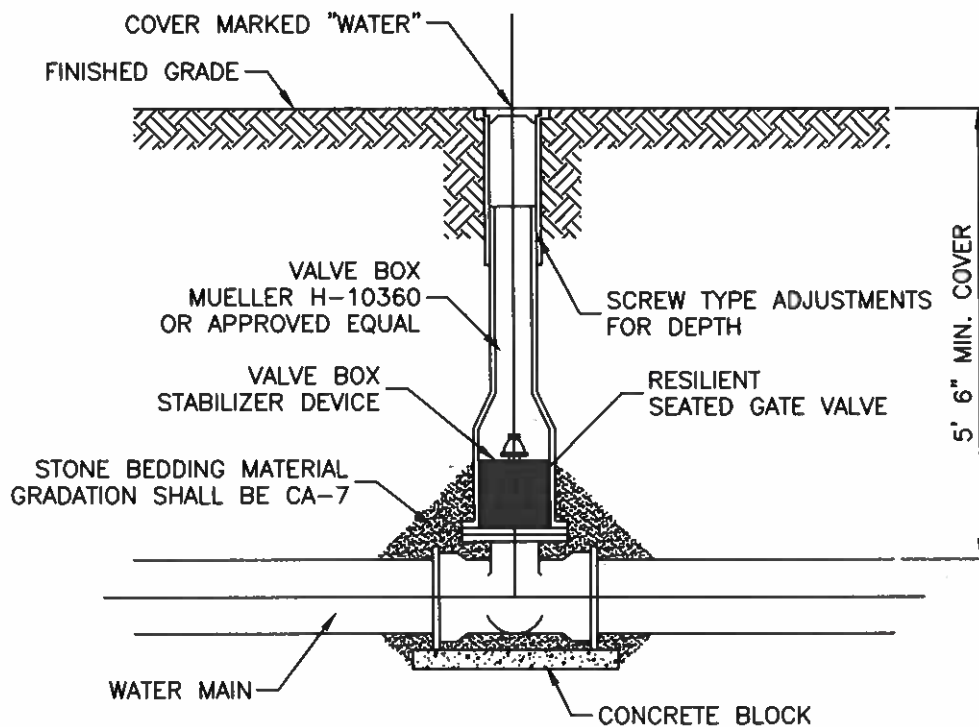


## NOTE:

1. THE RECONNECTION SHALL NOT OCCUR UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND APPROVED FOR SERVICE.
2. THE RECONNECTION SHALL BE MADE FROM THE EXISTING B-BOX PIPE TO THE NEW CORPORATION STOP.



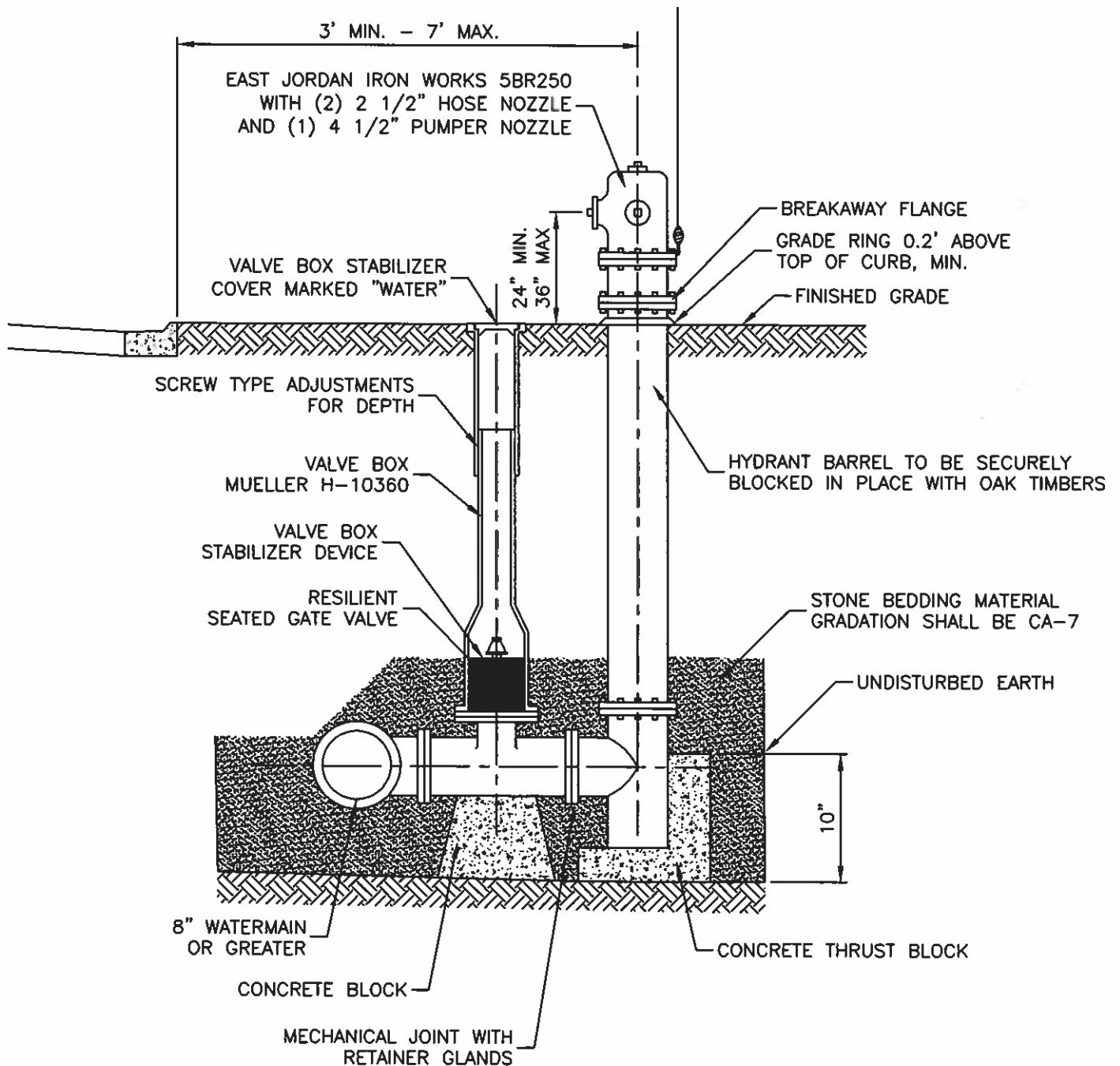
## TYPICAL VALVE IN BOX INSTALLATION



**NOTE:**

1. ALL VALVES SHALL OPEN COUNTER CLOCKWISE AND CLOSE CLOCKWISE WITH NON-RISING STEM.

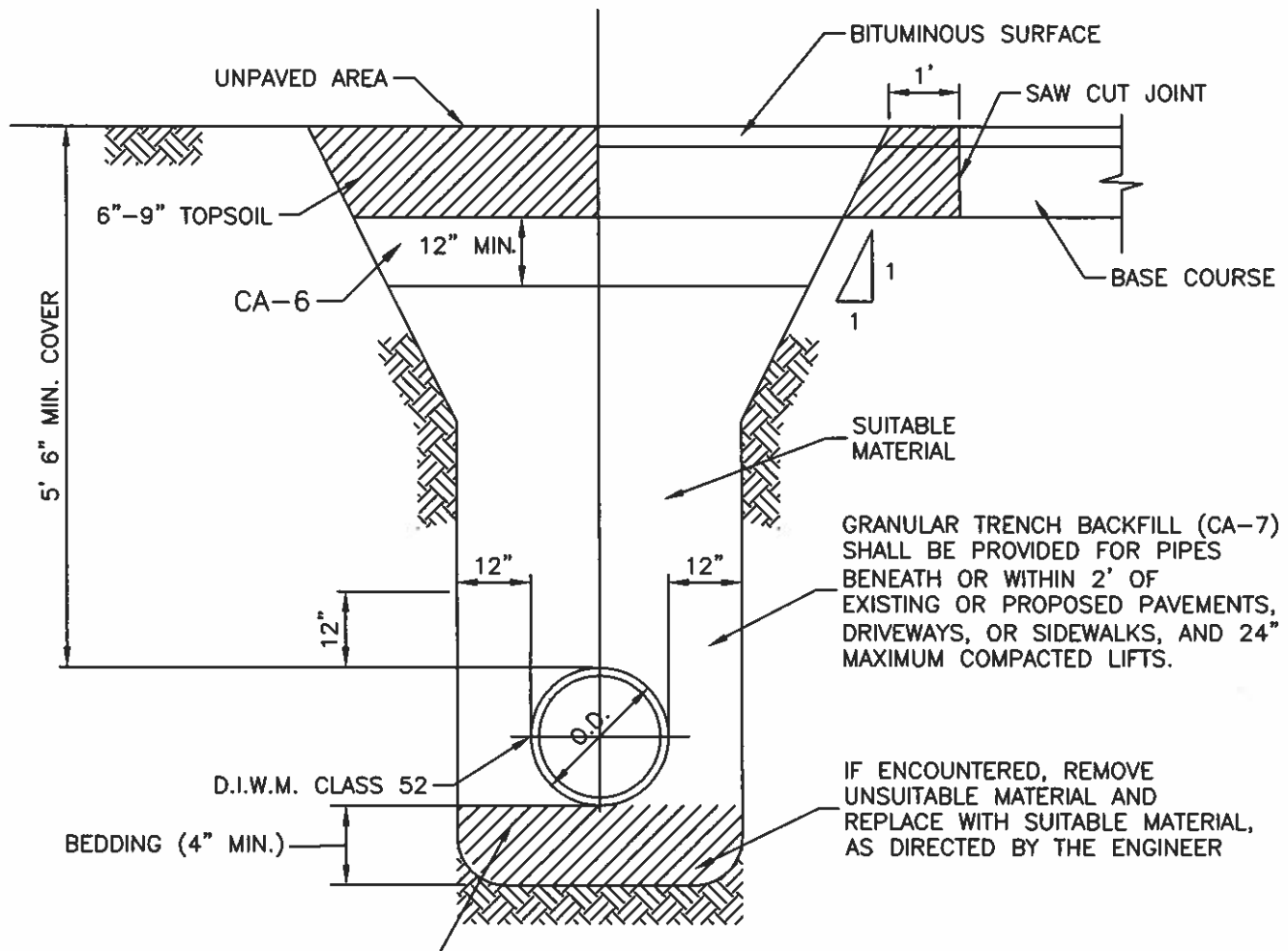
# FIRE HYDRANT INSTALLATION



## NOTES:

1. HYDRANTS SHALL BE INSTALLED FACING TOWARD THE CURB. NO HYDRANT SHALL BE INSTALLED WITHIN 48" OF ANY OBSTRUCTION NOR SHALL ANY OBSTRUCTION BE PLACED WITHIN 48" OF A HYDRANT. ALL HYDRANTS SHALL BE PAINTED SAFETY YELLOW BY THE MANUFACTURER.
2. ALL VALVES SHALL OPEN COUNTER CLOCKWISE AND CLOSE CLOCKWISE WITH NON-RISING STEM.
3. HYDRANT DRAIN HOLE SHALL BE FREE OF CONCRETE.

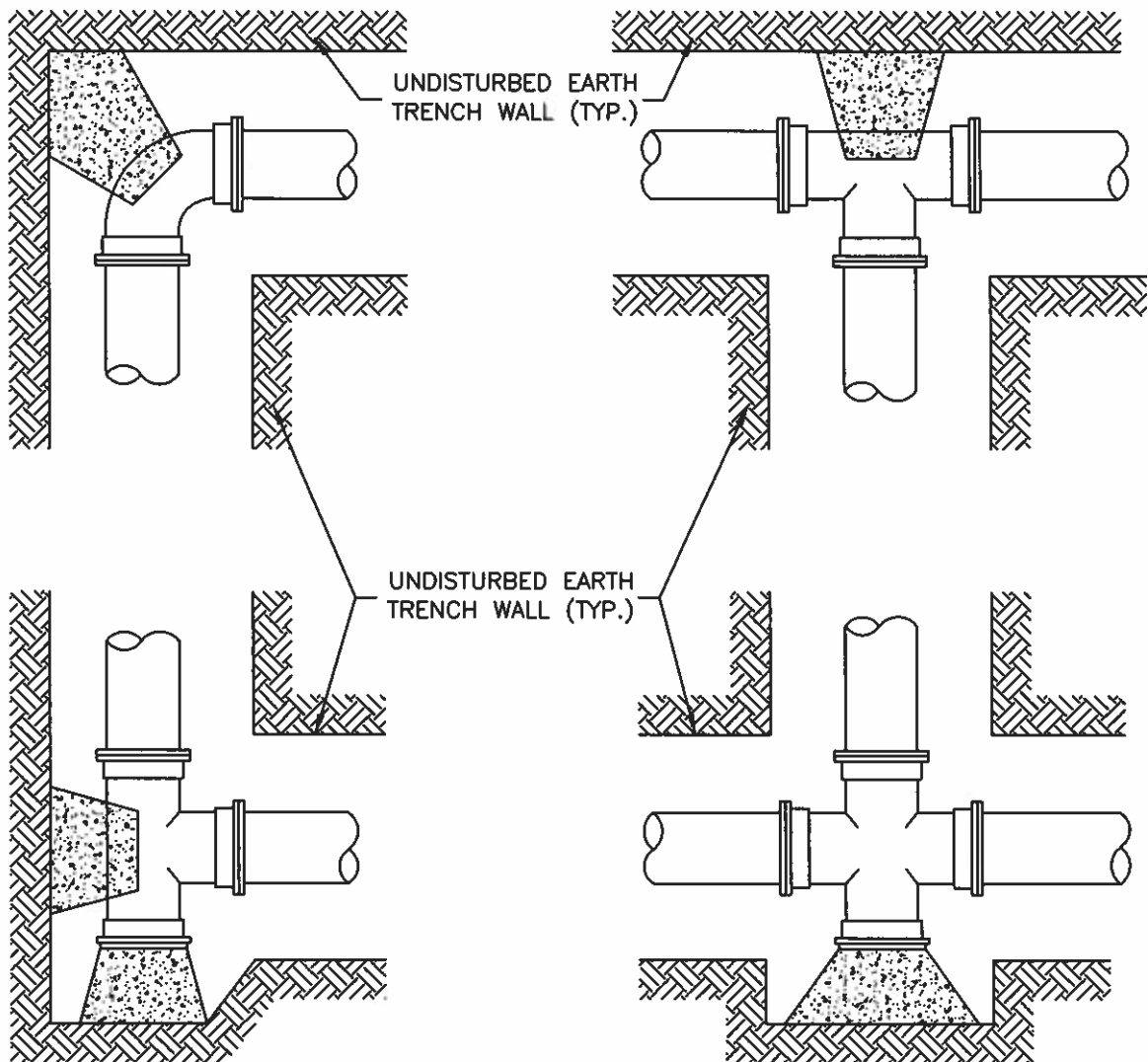
# TRENCH BACKFILL FOR WATERMAIN



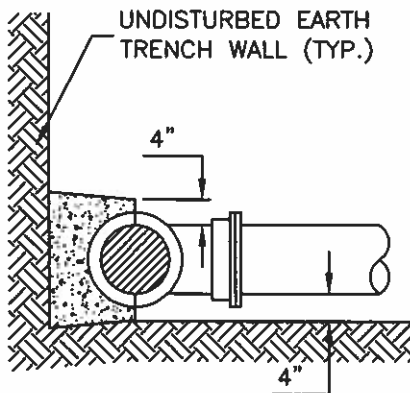
## NOTES:

1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
2. TRENCH BACKFILL (CA-7) SHALL PROVIDE 12" MINIMUM COVER ON WATERMAIN.

# TYPICAL THRUST BLOCK INSTALLATIONS



## PLANS

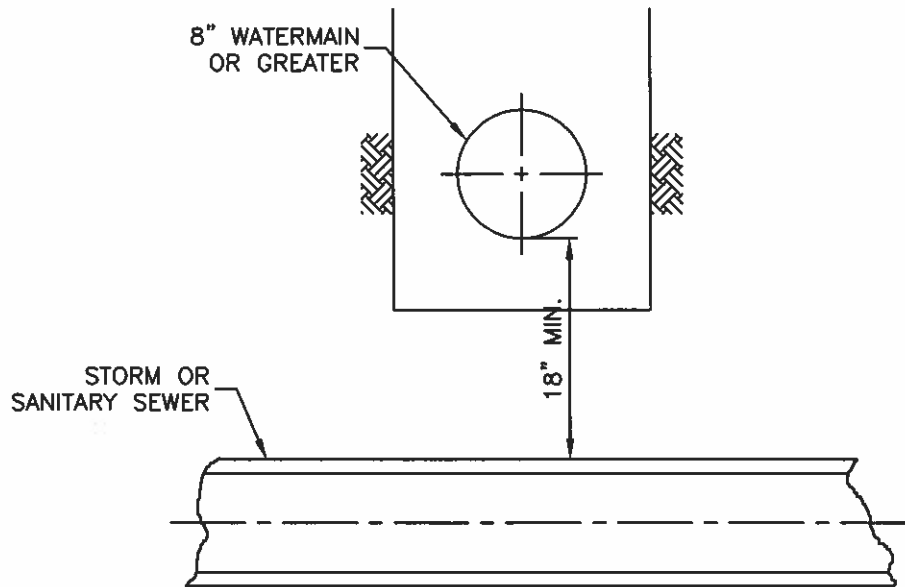


## SECTION

### NOTES:

1. PROVIDE PRECAST CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
2. PLACE THE BASE AND THE THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.
4. THRUST BLOCKING DOES NOT SUBSTITUTE FOR MEGALUG RESTRAINED JOINTS.

# WATER AND SEWER SEPARATION REQUIREMENTS

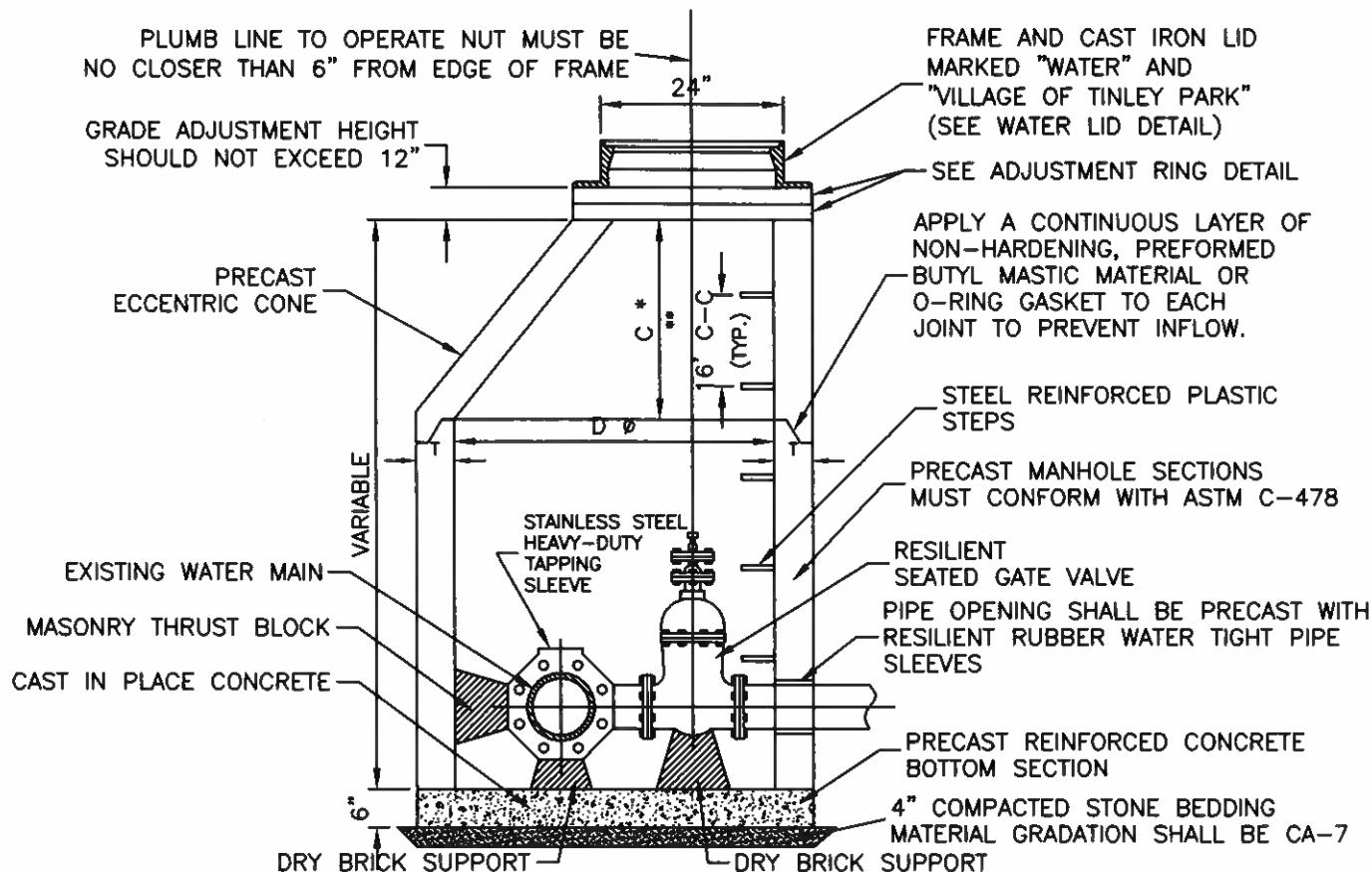


PROPOSED SEWER LINE BELOW EXISTING WATER MAIN  
WITH 18" MINIMUM SEPARATION

## NOTES:

1. PROVIDE ADEQUATE SUPPORT FOR WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
2. MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY.

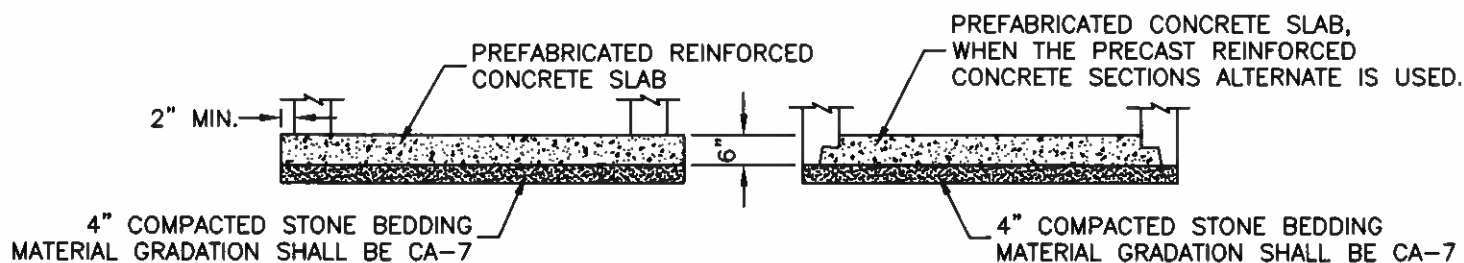
# VALVE IN VAULT DETAIL FOR PRESSURE CONNECTION



ALTERNATE MATERIALS FOR WALLS	D	C	T
PRECAST REINFORCED CONCRETE SECTION	5'-0"	3'-9"	5"
	6'-0"	3'-9"	6"
CAST-IN-PLACE CONCRETE	5'-0"	3'-9"	6"
	6'-0"	3'-9"	6"

\* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTION MAY VARY FROM THE DIMENSION GIVEN  $\pm 6"$ .

\*\* SEE DETAIL FOR PRECAST REINFORCED CONCRETE FLAT SLAB TOP.



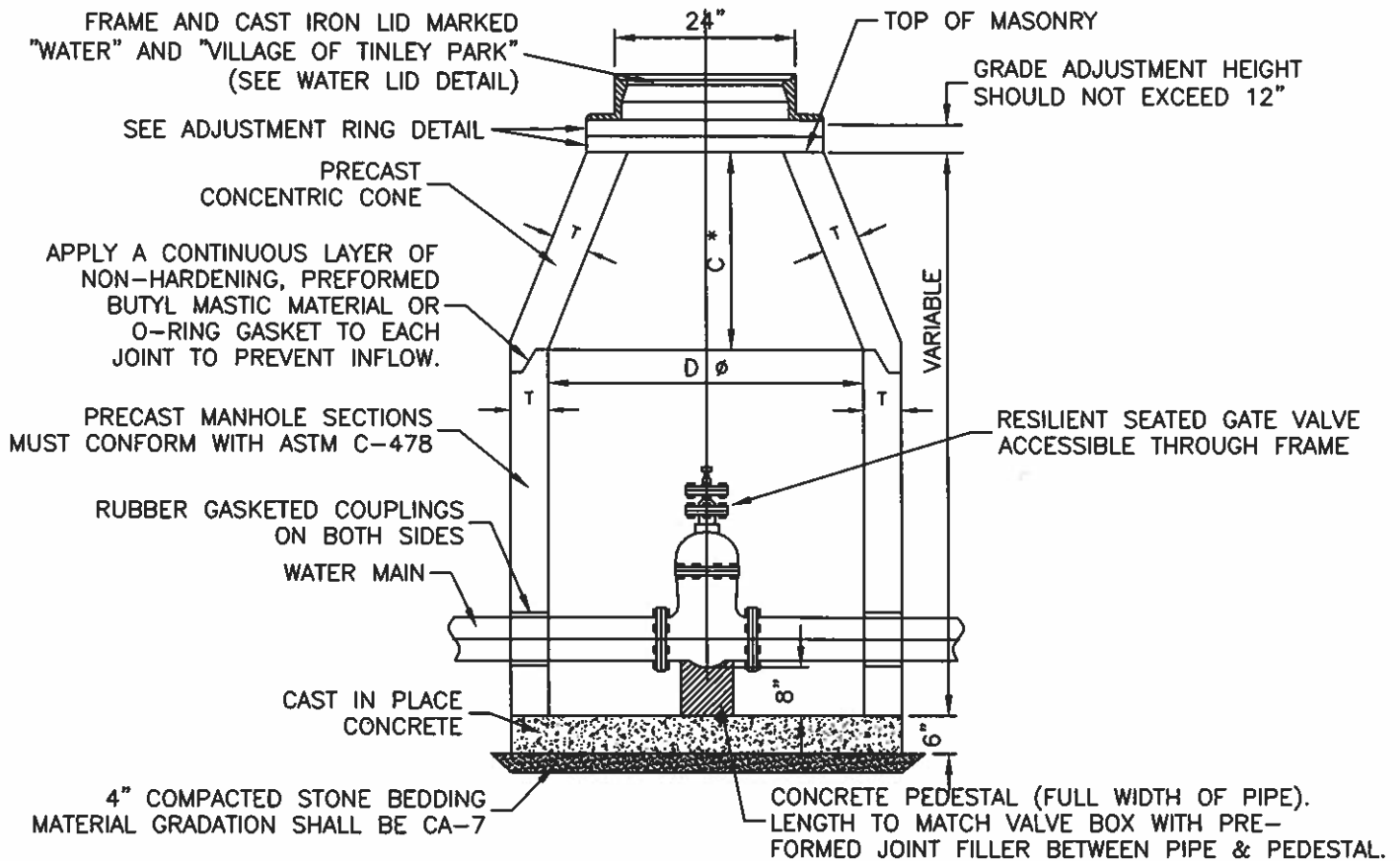
## ALTERNATE BOTTOM SLAB

### NOTES:

1. VALVE TO ALIGN W/ CENTER OF FRAME OPENING.
2. USE 5'-0"Ø FOR WATERMAIN SIZES 10" AND UNDER. 6'-0"Ø FOR SIZES 12" AND ABOVE.
3. VALVE VAULT TO CONFORM TO ASTM C-478.
4. ALL VALVES SHALL HAVE STAINLESS STEEL BOLTS AND NUTS.
5. ALL VALVES SHALL OPEN COUNTER CLOCKWISE AND CLOSE CLOCKWISE WITH NON-RISING STEM.
6. PROVIDE CA-7 AGGREGATE BACKFILL MATERIAL AROUND VAULT TO SUB-GRADE ELEVATION IN PAVED AREAS.

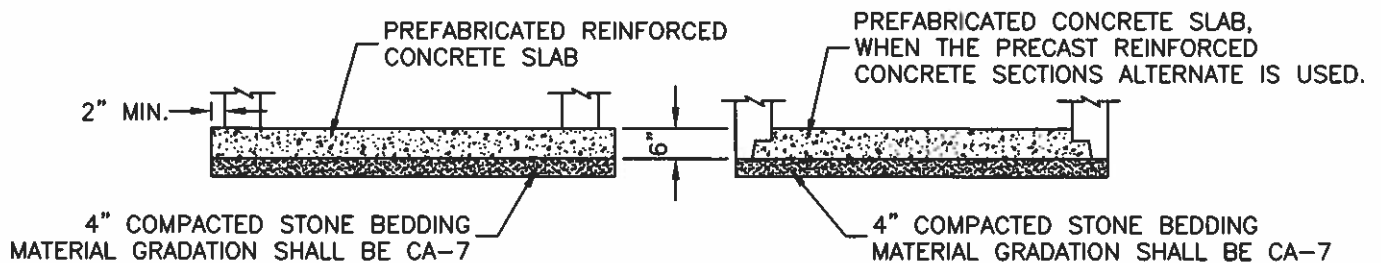


# VALVE IN VAULT DETAIL



ALTERNATE MATERIALS FOR WALLS	D	C	T
PRECAST REINFORCED CONCRETE SECTION	5'-0"	2'-6"	5"
	6'-0"	3'-9"	6"
CAST-IN-PLACE CONCRETE	5'-0"	2'-6"	6"
	6'-0"	3'-9"	6"

\* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTION MAY VARY FROM THE DIMENSION GIVEN  $\pm 6"$ .



## ALTERNATE BOTTOM SLAB

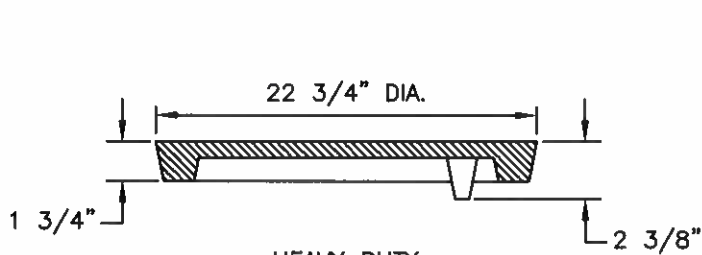
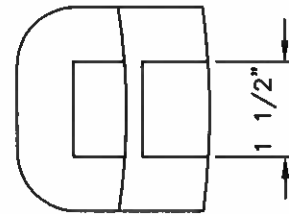
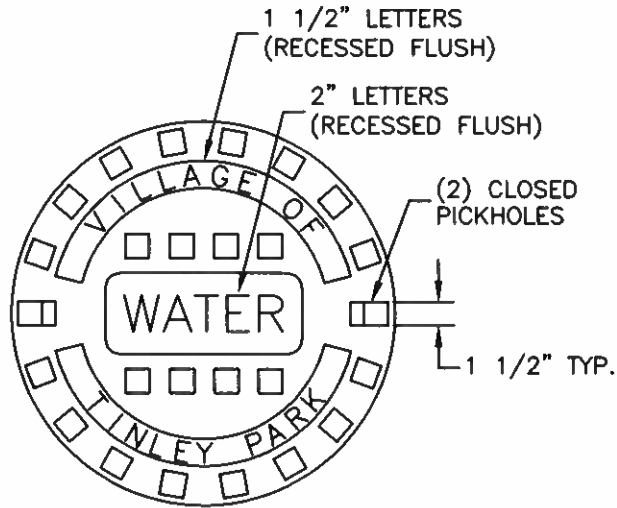
### NOTES:

1. CONCENTRIC CONE REQUIRED (VALVE TO ALIGN W/ CENTER OF FRAME OPENING).
2. USE 5'-0"Ø FOR WATER MAIN SIZES 10" AND UNDER. 6'-0"Ø FOR SIZES 12" AND ABOVE.
3. VALVE VAULT TO CONFORM TO ASTM C-478.
4. ALL VALVES SHALL HAVE STAINLESS STEEL BOLTS AND NUTS.
5. ALL VALVES SHALL OPEN COUNTER CLOCKWISE AND CLOSE CLOCKWISE WITH NON-RISING STEM.
6. PROVIDE CA-7 AGGREGATE BACKFILL MATERIAL AROUND VAULT TO SUB-GRADE ELEVATION IN PAVED AREAS.

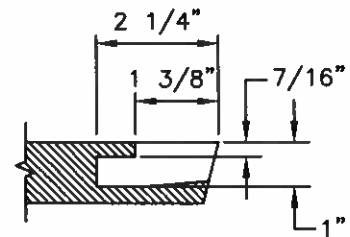




# SPECIAL LETTERED WATER VALVE VAULT LID



HEAVY DUTY  
EJIW 1020A OR APPROVED EQUAL  
MACHINED BEARING SURFACE  
COVER WT: 115 lbs.



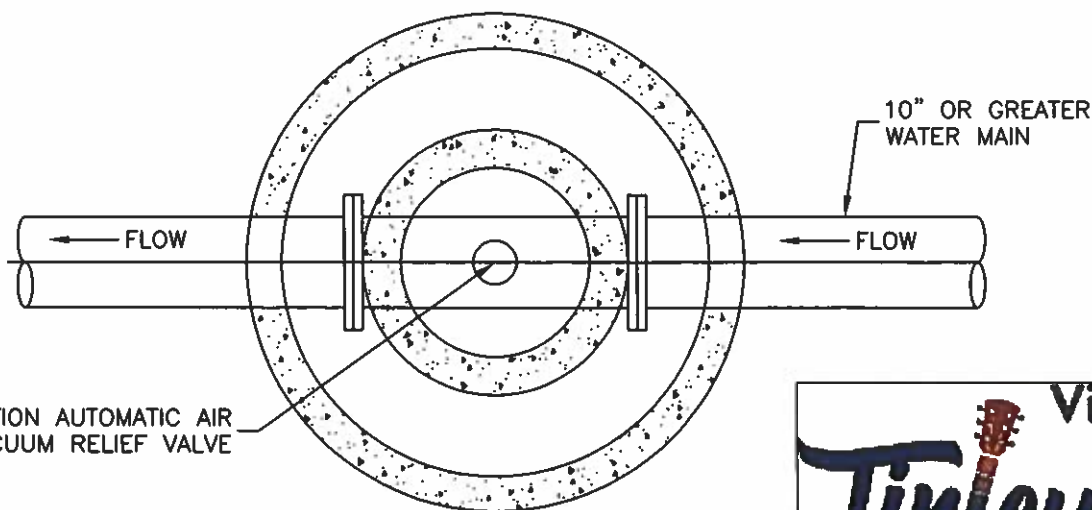
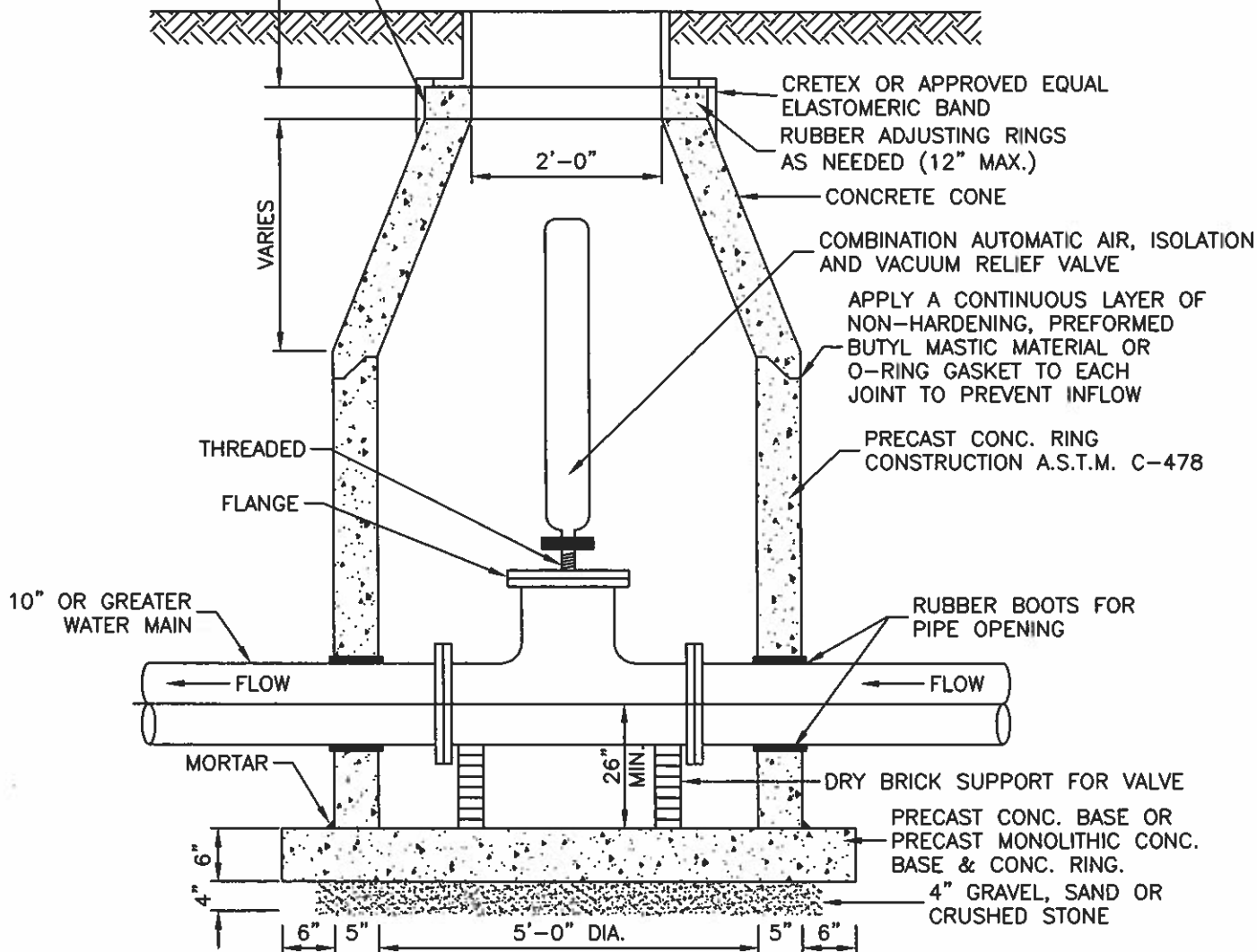
CLOSED PICKHOLE DETAIL



## AIR RELEASE DETAIL

SEE ADJUSTMENT RING DETAIL

GRADE ADJUSTMENT HEIGHT  
SHOULD NOT EXCEED 12"



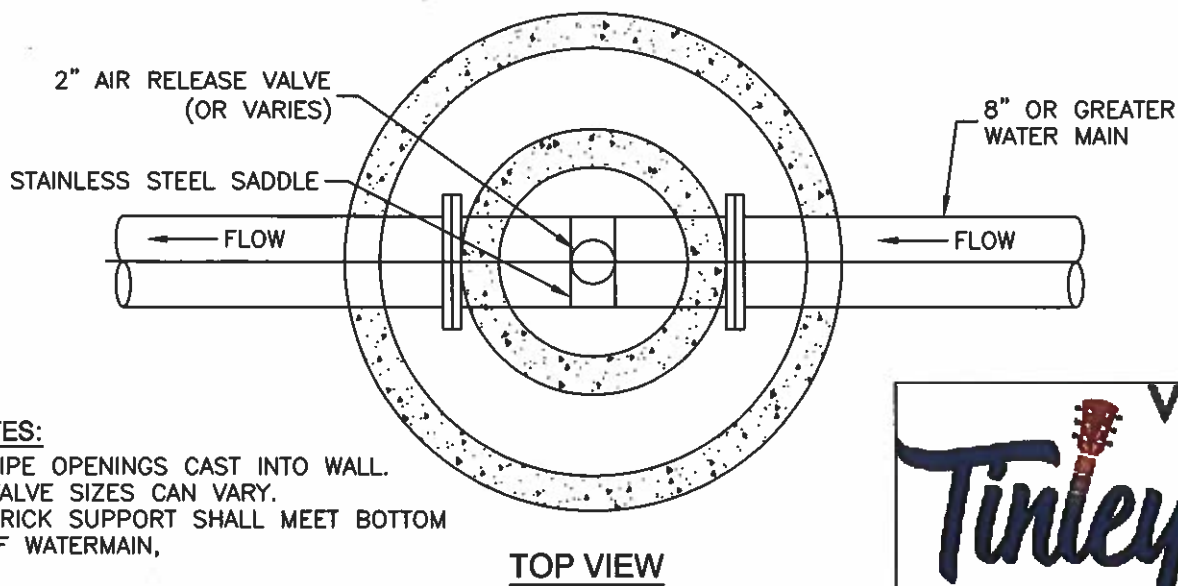
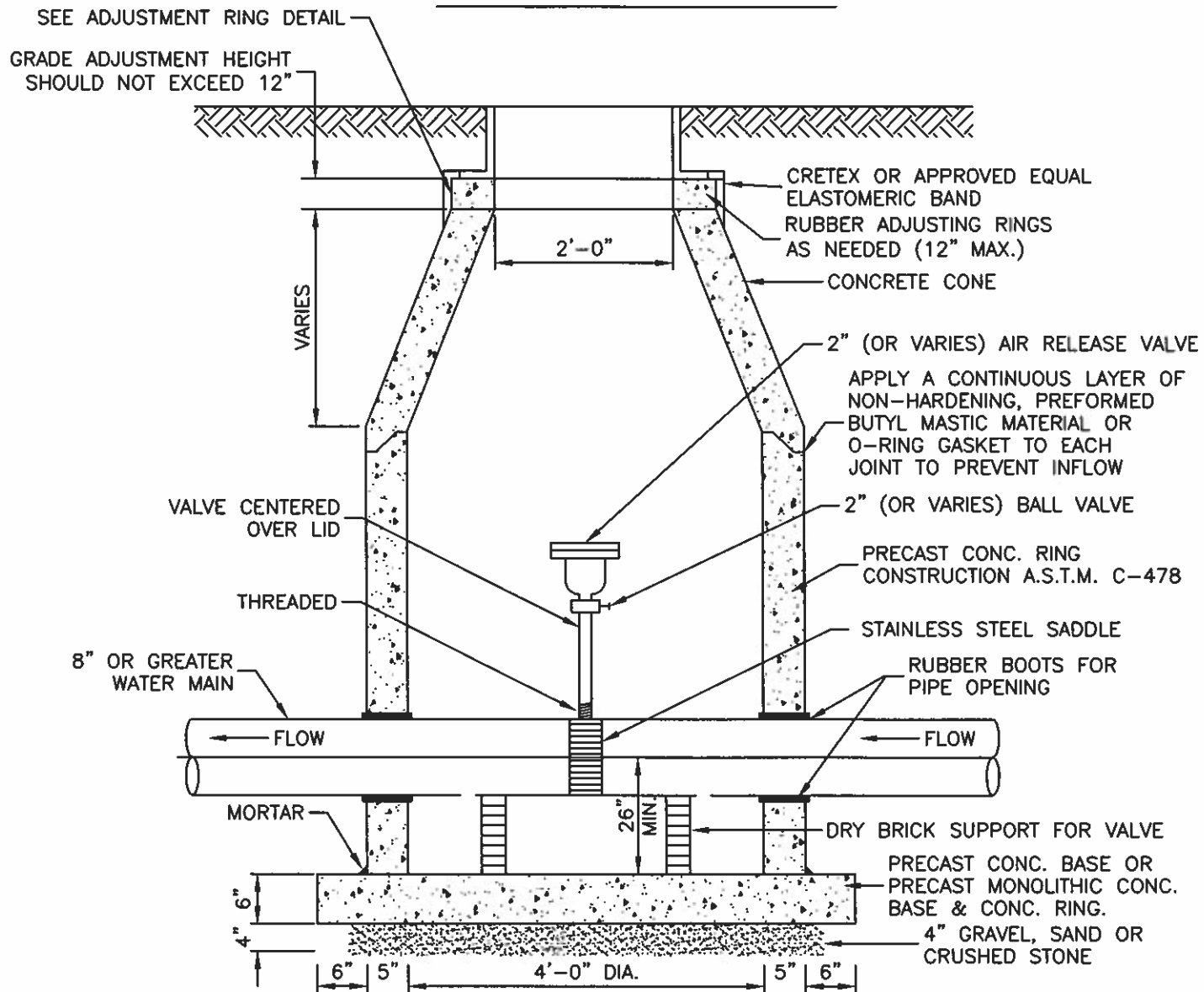
### COMBINATION AUTOMATIC AIR AND VACUUM RELIEF VALVE

NOTE:  
1. PIPE OPENINGS CAST INTO WALL.

**TOP VIEW**



# AIR RELEASE DETAIL



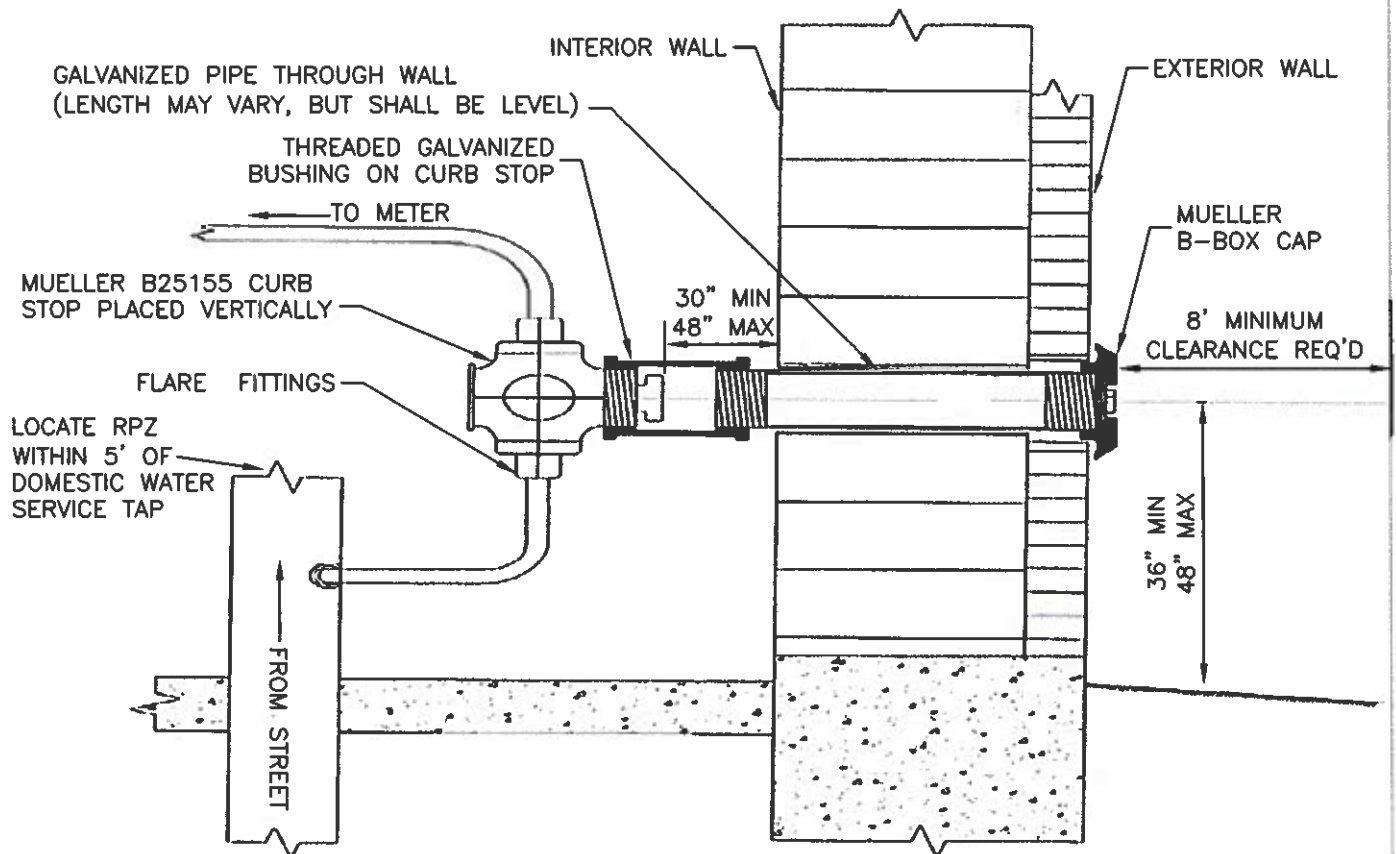
**TES:**

1. PIPE OPENINGS CAST INTO WALL.
2. VALVE SIZES CAN VARY.
3. BRICK SUPPORT SHALL MEET BOTTOM OF WATERMAIN,

### TOP VIEW



## COMMERCIAL PRIVATE WATER SERVICE DETAIL



### NOTES:

1. CURB STOP SHALL BE IN HEATED SPACE.
2. TYPICAL APPLICATION FOR RETROFIT OF SINGLE AND MULTI-UNIT COMMERCIAL OR MULTI-FAMILY RESIDENTIAL WITH MULTIPLE METERS SERVICED BY ONE EXTERIOR SUPPLY PIPE.
3. NON-ACCESSIBILITY WILL REQUIRE VILLAGE ACCESS INTO THE BUILDING.



## **Roadway Construction Standards and Specifications**

### **General Provisions for Roadways**

All roadways within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with the provisions listed below and extend to serve each parcel within the development. All subdivisions shall include a minimum of two (2) roadways that provide access to and from the development.

The design of all roadways shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Latest editions of the "Standard Specifications for Road and Bridge Construction", Recurring Local Roads and Streets Special Provisions
- "Manual of Uniform Traffic Control Devices"
- The Supplemental Specification and Recurring Special Provisions
- IDOT BDE Special Provisions
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Submittal Requirements**

All required submittal requirements entail:

- Plans
- Plats
- Permits
- Easement Requests
- Licensing Agreements, etc.
- Other Agencies (ACOE, MWRD, IDOT, Will and/or Cook County, etc...)

All of these finalized, signed and approved items must be submitted to the Village Engineer and allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

All roadway and sidewalk work by a Contractor shall be approved by the Village Board then coordinated with the State, County, and/or Railroad along with the Village Engineer and Public Works Director, as required. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Constructor shall maintain roadway and pedestrian access at all times. Temporary road closures and interruption of access to residents and businesses shall be of short

duration with a minimum of forty-eight (48) hour notice to the Streets Department, Mayor, Public Works Director, Police Chief and Fire Chief.

An Erosion Control Plan shall be submitted.

### **Street Improvements**

All streets within a subdivision or development shall be graded and improved with a durable hard surface roadway. Roadway pavement sections shall be in accordance with IDOT designed standards based on the following:

- Soil Conditions
- Location
- Zoning
- Traffic Loading (Current and Proposed)
- Potential Truck Traffic

### **Hot-Mix Asphalt (HMA) and Portland Cement Concrete (PCC) Pavements**

The Geometric and Structural Design have been determined for each Street Classification in the Village. Any modifications to the minimum pavement thicknesses provided shall include a modified Pavement Structural Design meeting the IDOT Pavement Design Procedure.

Note: Binder and Surface (as per IDOT Mixture Design Requirements)

- Street Classification: Residential Street

Aggregate Base Course, Type B	12" CA-6
HMA Binder	2-1/4" IL-19.0, N50
HMA Surface	1-1/2" Mix D, N50
- Street Classification: Collector Street

Aggregate Base Course, Type B	10" CA-6
HMA Binder	4" IL-19.0, N50
HMA Surface	2" Mix D, N50

**Or**

Aggregate Base Course	6" of Type B
Portland Cement Concrete	6"

Aggregate Base Course, Type B	12" CA-6
HMA Binder	4-1/2" IL-19.0, N50
HMA Surface	2-1/2" Mix D, N50

**Or**

Aggregate Base Course	6" of Type B
Portland Cement Concrete	8" with Wire Fabric
- Street Classification: Commercial and Industrial Streets

Aggregate Base Course, Type B	12" CA-6 (Commercial); 8" (Industrial)
HMA Base Course	N/A (Commercial); 10" (Industrial)
HMA Binder	2-1/4" IL-19.0, N50
HMA Surface	1-1/2" Mix D, N50

**\*For all the above pavements, additional pavement section may be required based on the 20-year projections and soils report.**

### **Pavement Construction Criteria**

- PCC curb and gutter shall be constructed along the outside edges of all street pavements in accordance with the most recent Village Ordinances and Standard Details.
- All base courses shall be laid on a stabilized subgrade as per Section 301 of the latest edition of IDOT SSRBC and approved by the Village Engineer.
- Storm inlets shall be provided within the roadway at locations specified or approved by the Village Engineer and Director of Public Works.
- Before any paving work is commenced, all street grading shall be properly completed as shown on the Grading Plan and confirmed by the Village Engineer.
- Street grades shall conform in general to the terrain and shall not be less than 0.4% or more than 5%.
- Street grades shall provide natural surface drainage regardless of the presence or absence of storm sewer to avoid depressions or inverts that flood in flash storms.
- All underground utility work (watermain, sewer, gas mains, electric, house services, etc...) shall be backfilled, settled and compacted prior to the roadway base being laid.
- Any Portland Cement Concrete, HMA Binder or HMA Surface proposed to be constructed after November 1<sup>st</sup> shall have written approval from the Village Engineer.
- Side strips shall be required on both sides of all streets. These shall be graded and sodded by the Owner or Developer with at least four (4") inches of topsoil.
- Median strips shall be considered as side strips, unless paved.
- Developer shall be responsible to maintain all such right of way (including grass and trees) during the development until the final Village inspection is complete. Once the development is accepted by the Village, the Developer/Contractor is required to guarantee/maintain all work for a period of one (1) year from the final acceptance date.

### **Street Signs**

- Appropriate street signs shall be erected at each intersection.
- Sign type and location(s) shall be subject to approval of Public Works and MUTCD Manual.
- Prior to final inspection all street signs, including stop signs, speed limit signs, etc. shall be installed.

### **Public Utilities**

- All utility distribution lines (phone, electric, cable, etc.) shall be in place underground throughout each new subdivision or development.
- Lines shall be placed within easements or dedicated right of way, in a manner which does not conflict with other underground services.

- All transformer boxes shall be located so as not to be unsightly or hazardous to the Public.

### **Cash Bond Requirements**

It is unlawful to make any opening, excavation or tunnel under any public street, alley, sidewalk, parkway or other public area in the Village without securing a permit. Permit applications can be made at to the Village Clerk and shall specify the intended location and purpose of the excavation. Public Works will be notified of the permit application once it is submitted.

Applicant shall agree to pay all cost for the proposed work as well as the cost to restore the project to the condition that existed before the project began. No such permit shall be issued until one of the following cash bonds has been deposited with the Village:

- **\$5,000 Cash Bond:** A \$5,000 cash bond shall be provided for all utility trenches crossing an Alley, Minor Arterial or Residential roadway in the Village.
  - The repair shall include the pavement improvements the width of the trench (as well as an additional five (5') of surface restoration on both sides of the trench), backfill and compaction, curb and gutter, sidewalk, parkway restoration and site clean-up, as needed.

**\$10,000 Cash Bond:** A \$10,000 cash bond shall be provided for all utility trenches crossing a Secondary and Major Arterial, Collector, Commercial or industrial roadway in the Village.

- The repair shall include the pavement improvements the width of the trench (as well as an additional ten (10') feet of surface restoration on both sides of the trench), backfill and compaction, curb and gutter, sidewalk, parkway restoration and site clean-up, as needed.

The Village has the right to use its own employees and equipment to make reasonable changes or hire other services to do the work and charge the cost for their time and equipment to the applicant. Any balance of said deposit remaining after the deduction of such costs shall be returned to the applicant.

In cases where applicant restores the project to its original condition, the Village shall return the entire deposit one (1) year from the date of application or restoration, whichever is later.

No such permit shall be issued unless the applicant has on file with the Village and in full force and effect, a bond in the amount of \$20,000 with surety to be approved by the Village with conditions to indemnify the Village against any and all loss or liability resulting from the making of such opening and/or excavations.

- Cash bonds will be cashed by the Village and returned as noted after the pavement and parkway have been restored, inspected and approved by the Public Works Department.

A Certificate of Insurance will be required from utility companies doing work in Village Right of Way

## **Steel Plate Requirements for Roadway Excavations**

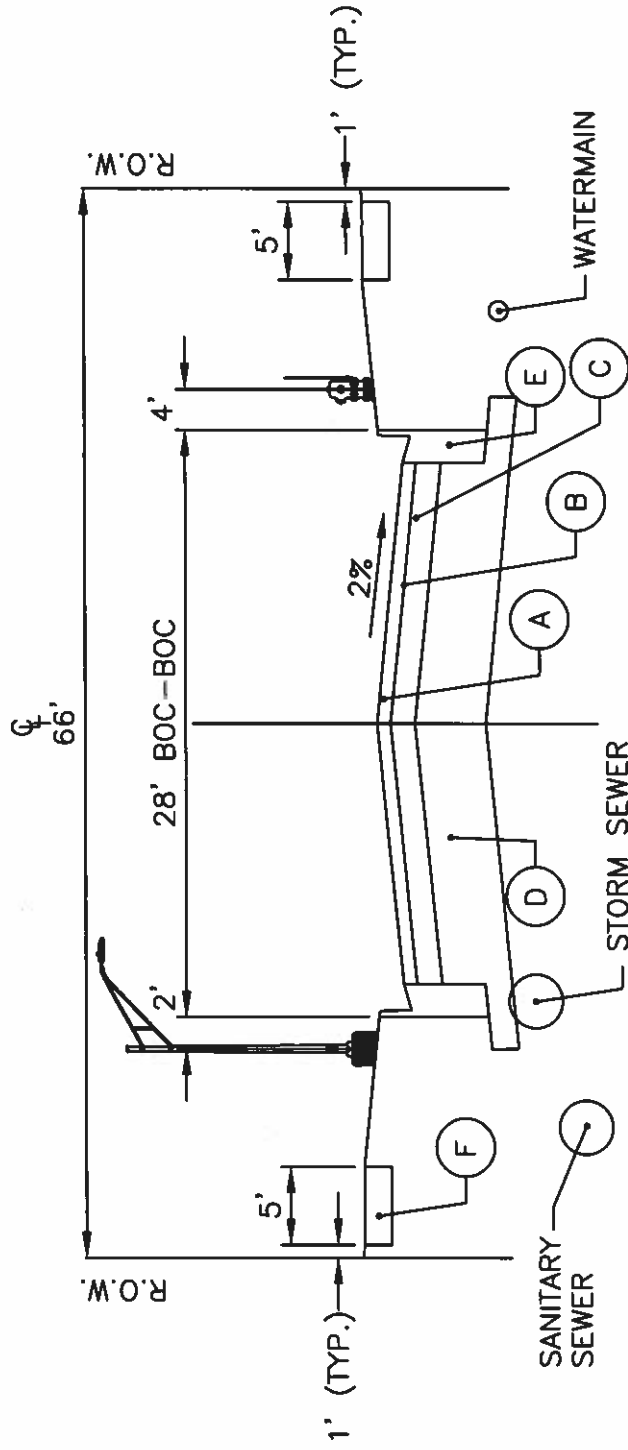
- The use of steel plates is required for all projects requiring the cutting of roadway pavement. These standards ensure that the Village pavements are left in the same, if not better, condition than they were found before the project. This will reduce congestion and roadway hazards, as well as increase safety in and out of the construction limits.
- The use of steel plates by Contractors and Utility Companies as a temporary cover over an excavated area in the roadway can present safety hazards and other problems if allowed to remain in place for extended periods and not properly secured or maintained.
- When backfill operations of an excavated area in the traveled way cannot be properly completed within a work day, steel plate bridging will be required. In such instances the following shall apply:
  - Steel plates must be able to withstand H-20 (wheel loading of 16,000 lbs) traffic loading without movement.
  - Steel plates shall be fabricated to meet ASTM A36 steel requirements.
  - When two (2) or more plates are required, vertical movement shall not occur. This may require the plates to be tack-welded.
  - Steel plates shall be placed to resist bending and vibration under traffic loads and anchored to prevent movement.
  - Steel plates must extend a minimum of twelve (12") inches beyond the edges of the excavation.
  - Before steel plates are installed, the excavation shall be adequately shored to support the bridging and traffic loads.
  - Temporary paving with a cold asphalt mix should be used to feather the edges of the plate to form a wedged taper to cover the edges of the steel plate. Other alternative methods to accomplish this will be considered for approval.
  - Wedges or other non-asphaltic devices shall be used for leveling to eliminate rocking of the plates. Compacted temporary asphalt shall be used to fill all gaps between the plates and the existing pavement surfaces.
- One (1") inch thick steel plates shall be used in areas where backfilling operations of an excavation in the traveled way, whether traverse or longitudinal cannot be properly completed within the same day, and the posted speed limit is 35 MPH or less.
- One and a quarter (1-1/4") inch thick steel plates shall be used in areas where backfilling operations of an excavation in the traveled way cannot be properly completed within the same day and the posted speed limit is greater than 35 MPH. These steel plates shall be recessed by milling or saw cutting into the existing asphalt to set flush with the surface of the existing asphalt. The pavement shall be cut and cold patched to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate. Full depth cutting of the asphalt section of excavation is not allowed. The steel plate shall be anchored securely to prevent movement. The gap between the edge of the plate and the adjacent existing asphalt pavement must be filled with temporary asphalt patch (cold mix). Wedges or other non-asphaltic devices shall be used for leveling as required to eliminate rocking of the plates. Compacted



temporary asphalt shall be used to fill all gaps between the plates and existing pavement surfaces.

- The excavation, backfill and pavement restoration shall be as follows:
- The surface of the roadway to be excavated for the utility work shall be saw-cut in reasonably straight and parallel lines. The cutting excavation should not be done with a backhoe, grade all or any other type of ripping equipment.
  - Existing pavements, bases, curb and gutters and sidewalks shall be cut and brought to a straight line. Expansion joints removed shall be replaced. The cutting and replacement of concrete curb and gutters and sidewalks shall be from joint to joint.
  - Backfill material shall meet the applicable requirements of the current edition of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction for backfill material. Unsuitable material will not be allowed for backfill.
  - Pavement removed shall be replaced with in-kind material (i.e. PCC or HMA).
  - Replacement of surface pavement shall extend a minimum of three (3') feet on both sides of the trench.
  - When the pavement remaining between the excavation and the edge of the roadway is with two (2') feet, the remaining area shall be removed and replaced as well.
  - Any disturbed pavement markings shall be restored to match adjacent striping.
  - Crack sealing around the HMA patch may be required.
  - If permanent pavement restoration cannot be completed within three (3) days, then temporary patchwork of two (2") inches of cold asphalt mix over the compacted granular base will be allowed. Permanent pavement repair will be required within two (2) weeks.

# TYPICAL SECTION RESIDENTIAL STREET



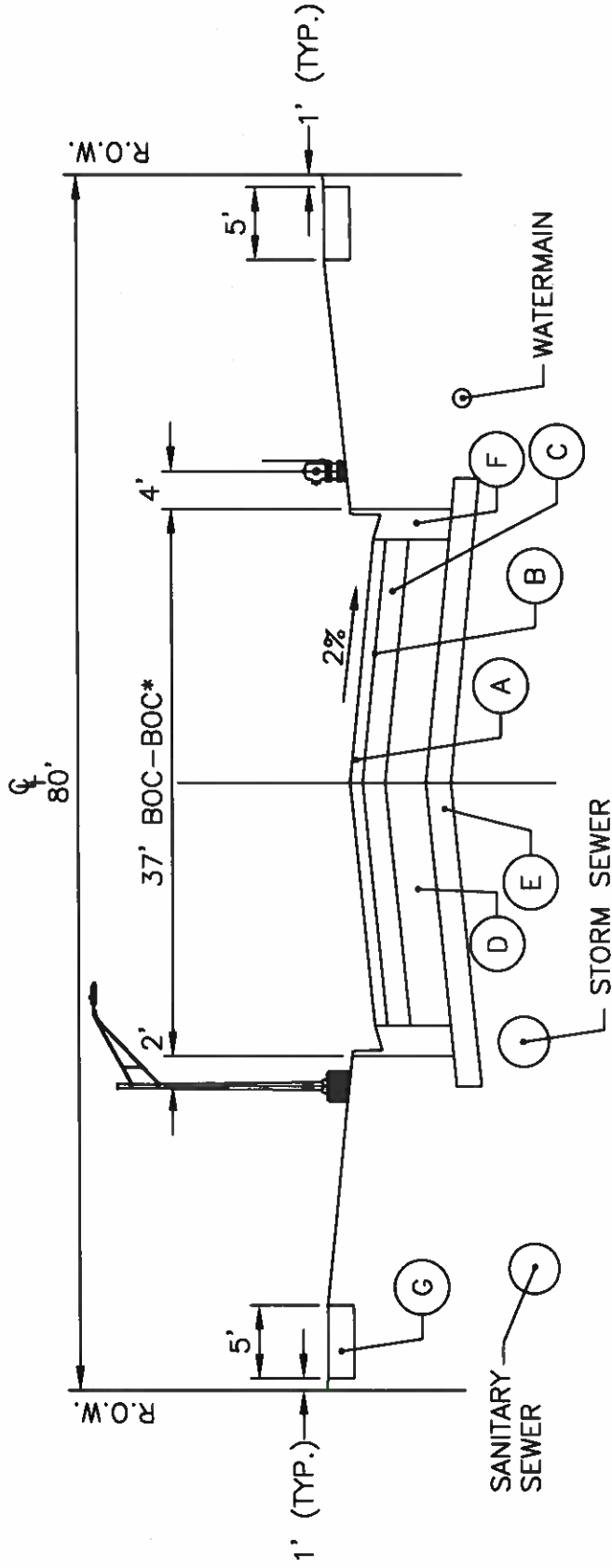
## LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (D) AGGREGATE SUB-BASE, TYPE B, 10"
- (E) COMBINATION CURB & GUTTER, TYPE M-3.12
- (F) PC CONCRETE SIDEWALK, 5" (WITH 4" AGGREGATE SUB-BASE)

## NOTES:

1. IMPROVEMENTS TO EXISTING UTILITIES CAN MODIFY PROPOSED LOCATIONS.

# TYPICAL SECTION COLLECTOR STREET



## LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (D) HOT-MIX ASPHALT BASE COURSE, 7"

- (E) AGGREGATE SUB-BASE, TYPE B, 4"
- (F) COMBINATION CURB & GUTTER, TYPE B-6.12
- (G) PC CONCRETE SIDEWALK, 5" (WITH 4" AGGREGATE SUB-BASE)

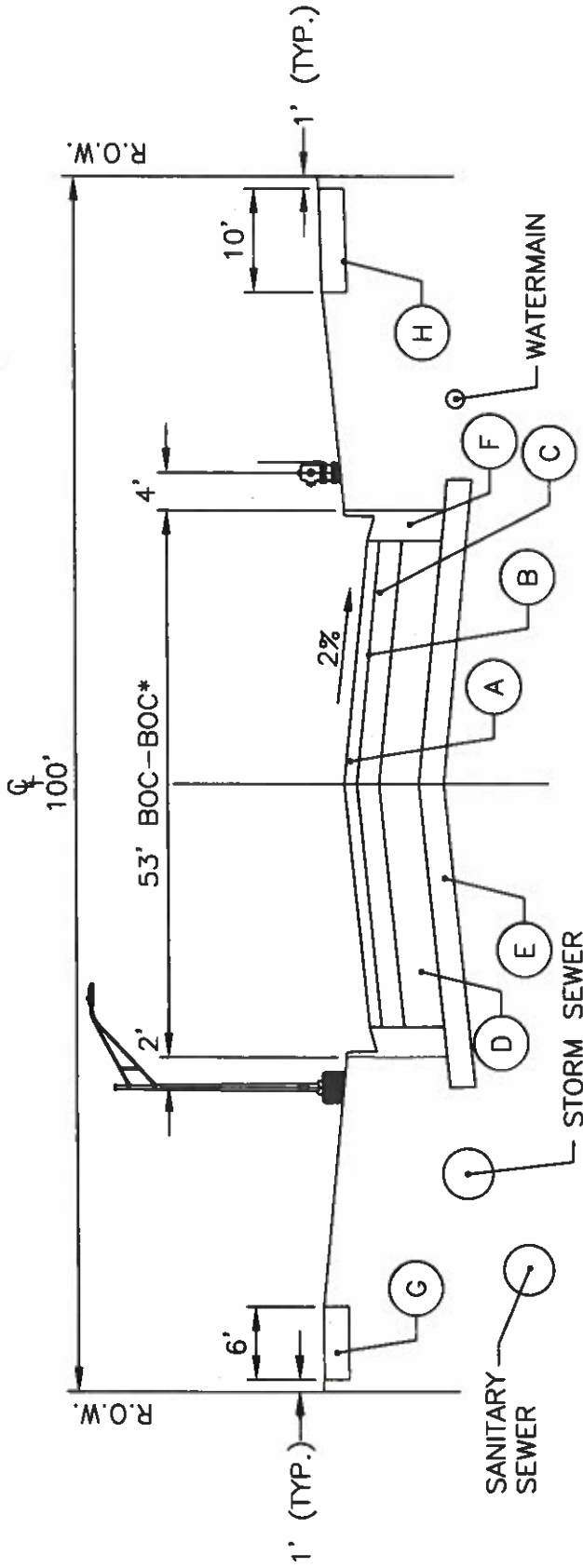
## NOTES:

1. PAVEMENT THICKNESSES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL THICKNESS MAY BE REQUIRED BASED ON SOILS REPORT OR OTHER TRAFFIC FACTORS.
2. TRAFFIC VOLUMES MAY REQUIRE HMA MIX D, N70 INSTEAD OF HMA MIX D, N50.
3. IMPROVEMENTS TO EXISTING UTILITIES CAN MODIFY PROPOSED LOCATIONS.

\* IN ACCORDANCE WITH FEDERAL, STATE, OR COUNTY REQUIREMENTS



# TYPICAL SECTION MAJOR ARTERIAL



## LEGEND

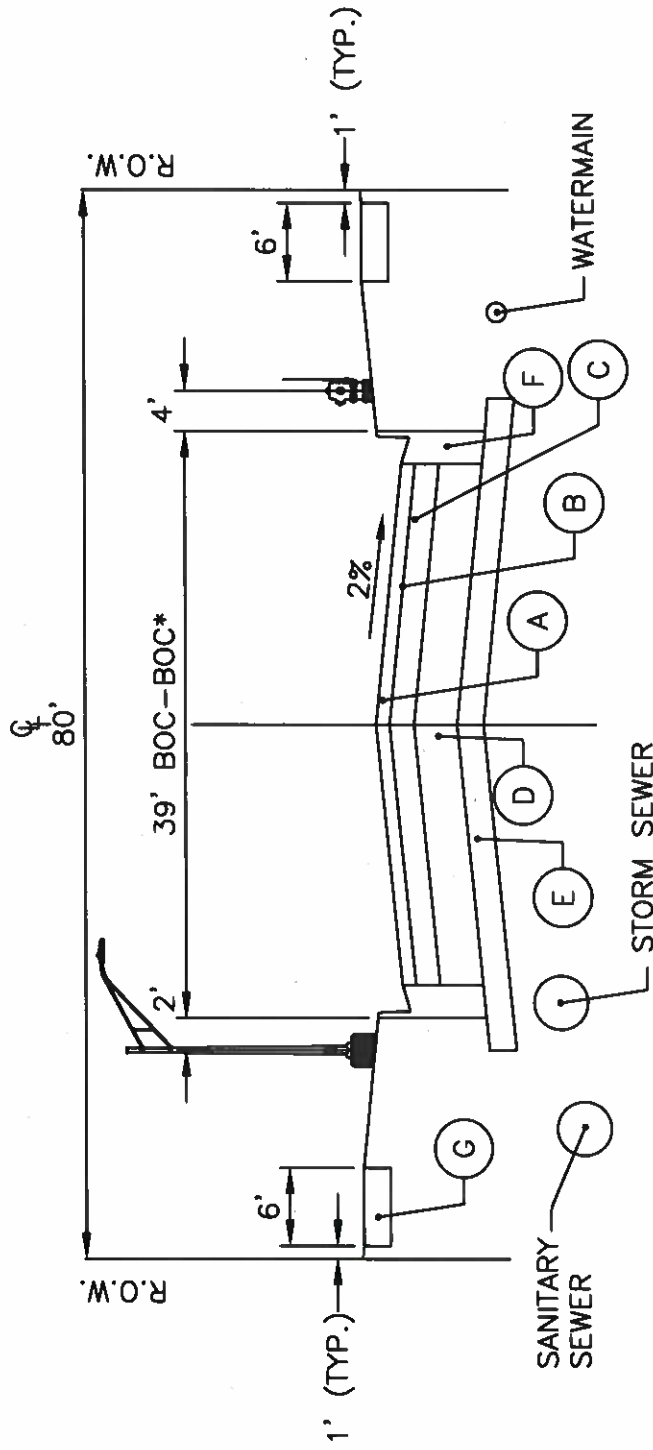
- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (D) HOT-MIX ASPHALT BASE COURSE, 8"
- (E) AGGREGATE SUB-BASE, TYPE B, 6"
- (F) COMBINATION CURB & GUTTER, TYPE B-6.24
- (G) PC CONCRETE SIDEWALK, 5" (WITH 4" AGGREGATE SUB-BASE)
- (H) BITUMINOUS BIKEPATH (3" HMA WITH 6" AGGREGATE SUB-BASE)

## NOTES:

1. PAVEMENT THICKNESSES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL THICKNESS MAY BE REQUIRED BASED ON SOILS REPORT OR OTHER TRAFFIC FACTORS.
2. TRAFFIC VOLUMES MAY REQUIRE HMA MIX D, N70 INSTEAD OF HMA MIX D, N50.
3. IMPROVEMENTS TO EXISTING UTILITIES CAN MODIFY PROPOSED LOCATIONS.

\* IN ACCORDANCE WITH FEDERAL, STATE, OR COUNTY REQUIREMENTS

# TYPICAL SECTION COMMERCIAL DISTRICT



## LEGEND

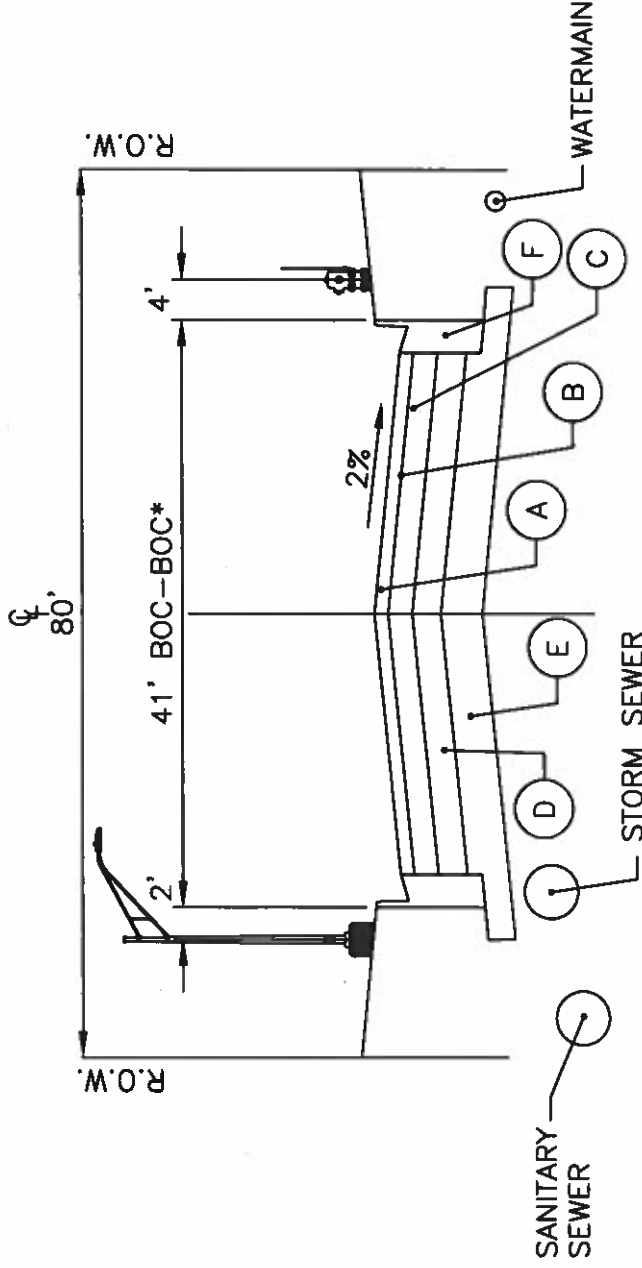
- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (D) HOT-MIX ASPHALT BASE COURSE, 6"
- (E) AGGREGATE SUB-BASE, TYPE B, 4"
- (F) COMBINATION CURB & GUTTER, TYPE B-6.12
- (G) PC CONCRETE SIDEWALK, 5" (WITH 4" AGGREGATE SUB-BASE)

## NOTES:

1. PAVEMENT THICKNESSES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL THICKNESS MAY BE REQUIRED BASED ON SOILS REPORT OR OTHER TRAFFIC FACTORS.
2. TRAFFIC VOLUMES MAY REQUIRE HMA MIX D, N70 INSTEAD OF HMA MIX D, N50.
3. IMPROVEMENTS TO EXISTING UTILITIES CAN MODIFY PROPOSED LOCATIONS.

\* IN ACCORDANCE WITH FEDERAL, STATE, OR COUNTY REQUIREMENTS

# TYPICAL SECTION INDUSTRIAL DISTRICT



## LEGEND

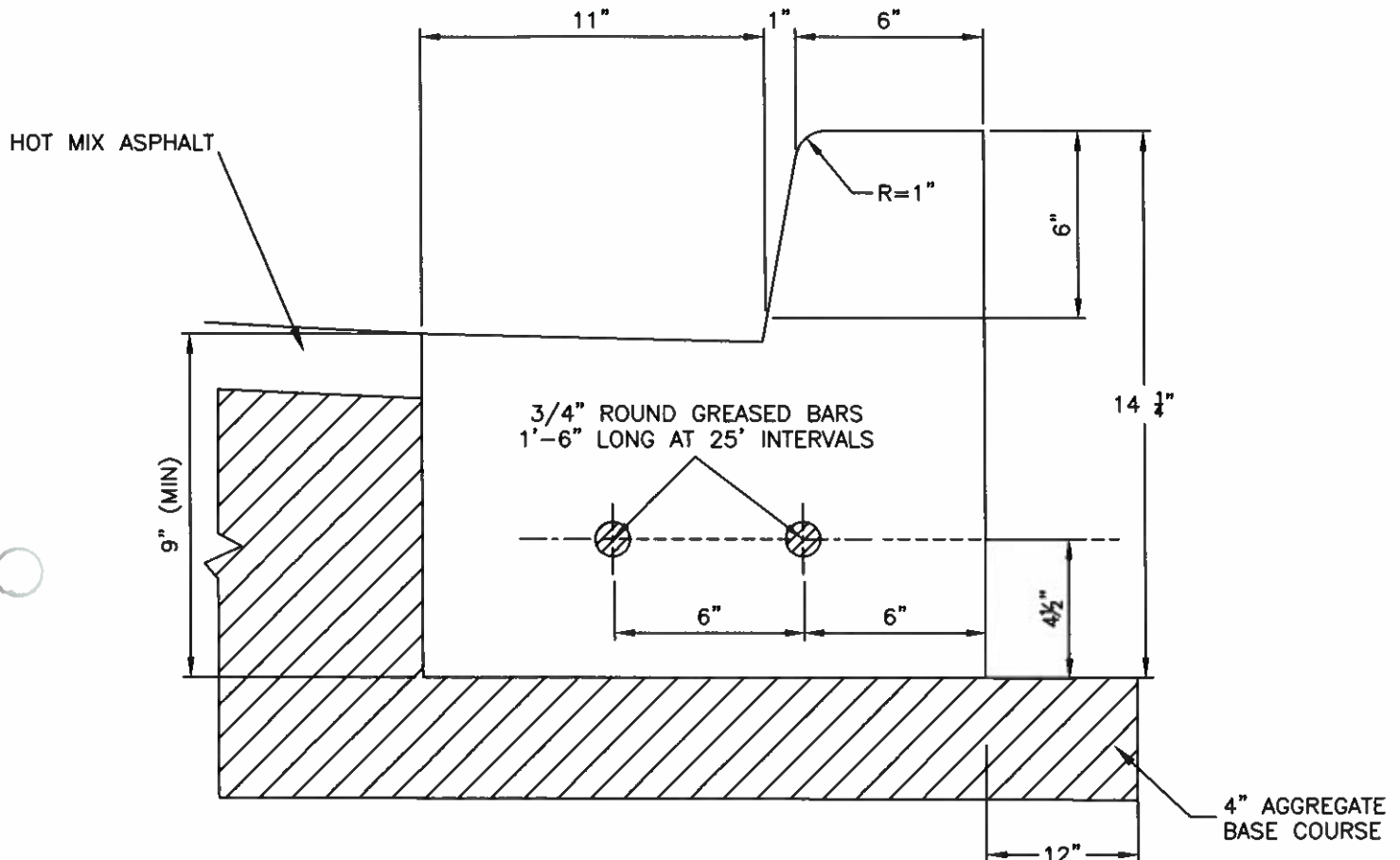
- |     |   |     |  |
|-----|---|-----|--|
| (A) | HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 2"     | (D) | HOT-MIX ASPHALT BASE COURSE, 8"        |
| (B) | BITUMINOUS MATERIALS (PRIME COAT)                   | (E) | AGGREGATE SUB-BASE, TYPE B, 6"         |
| (C) | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4" | (F) | COMBINATION CURB & GUTTER, TYPE B-6.24 |

## NOTES:

1. PAVEMENT THICKNESSES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL THICKNESS MAY BE REQUIRED BASED ON SOILS REPORT OR OTHER TRAFFIC FACTORS.
2. TRAFFIC VOLUMES MAY REQUIRE HMA MIX D, N70 INSTEAD OF HMA MIX D, N50.
3. IMPROVEMENTS TO EXISTING UTILITIES CAN MODIFY PROPOSED LOCATIONS.

\* IN ACCORDANCE WITH FEDERAL, STATE, OR COUNTY REQUIREMENTS

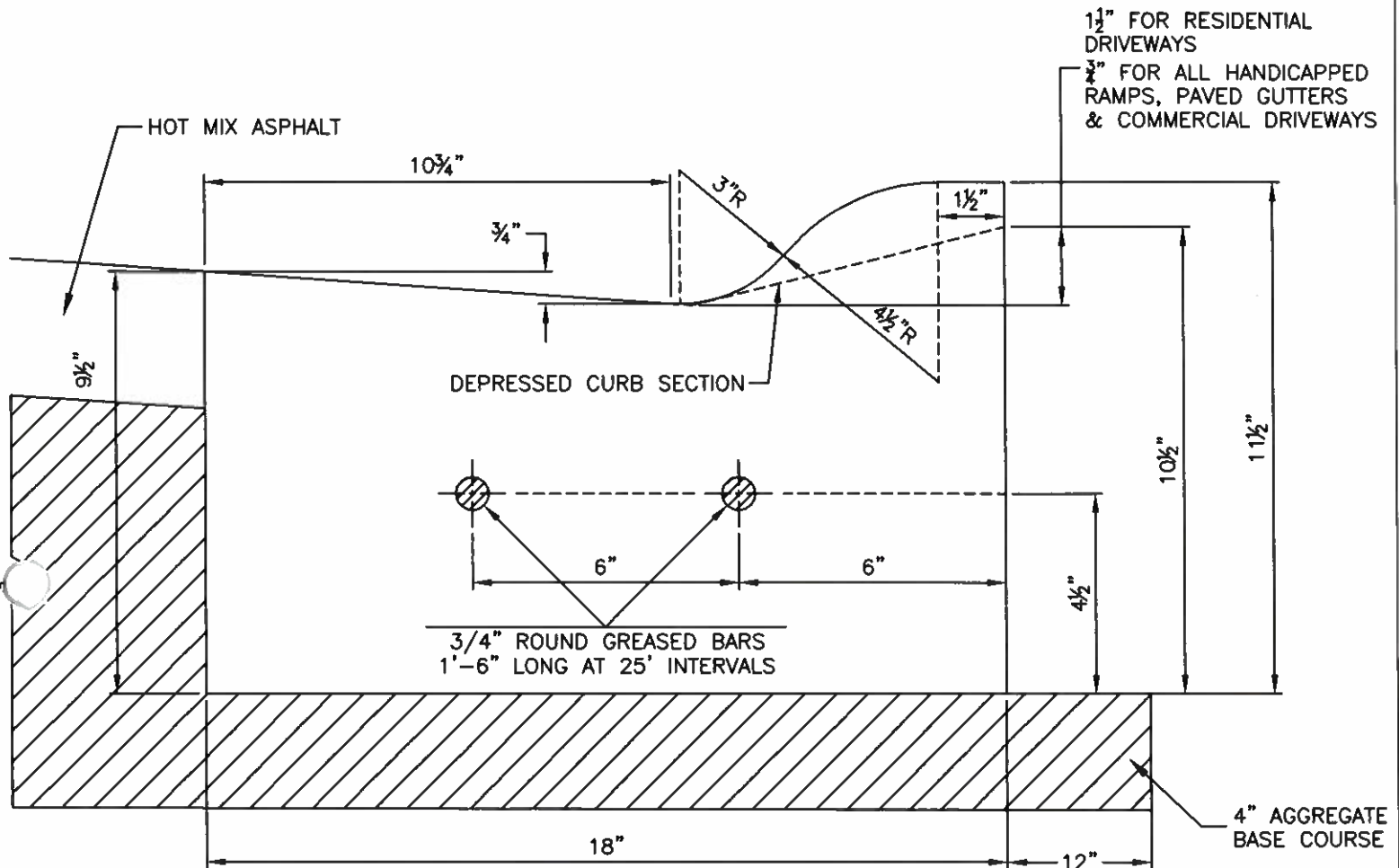
# COMBINATION CONCRETE CURB & GUTTER TYPE B6.12 (SPECIAL)



## NOTES:

1. EXPANSION JOINTS TO BE LOCATED AT HIGH POINTS, UTILITY STRUCTURES, CURB RETURNS, COLD JOINTS AND 60' INTERVALS (MAX.).
2. CONTRACTION JOINTS ARE TO BE SAW CUT 2" DEEP AT 20' INTERVALS (MAX.)
3. INSTALL 2-#4 DEFORMED BARS THAT ARE 10' LONG OVER ALL TRENCHES.
4. TRANSITION CURB AND GUTTER, AS NECESSARY, TO MEET DRAINAGE STRUCTURE FRAME AND GRATES.
5. GUTTER FLAG SHALL BE SLOPED AT 3/4" PER FOOT TO OR AWAY FROM CURB BASED ON PAVEMENT PROFILE.  
FORM SIZES TO BE USED 2"x10" IN FRONT AND 2"x12" IN BACK. ANY UNDERCUT BENEATH THE CURB SHALL BE BROUGHT UP TO GRADE WITH SAND OR STONE SCREENINGS, THE COST OF WHICH SHALL BE BORNE BY THE CONTRACTOR.

## CONCRETE CURB AND GUTTER TYPE B

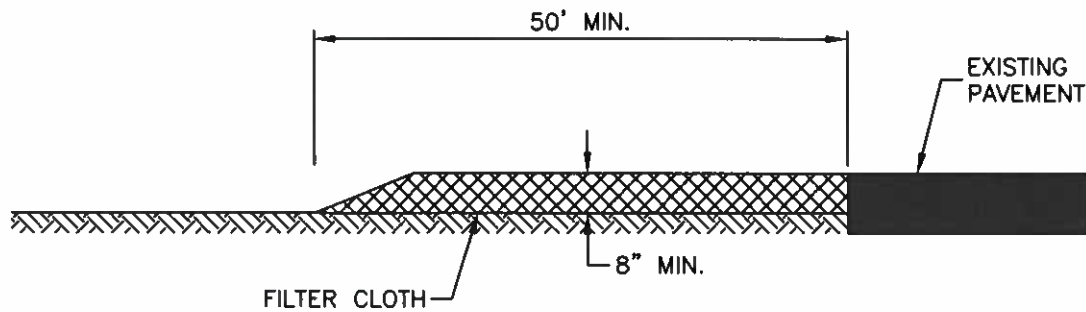


### NOTES:

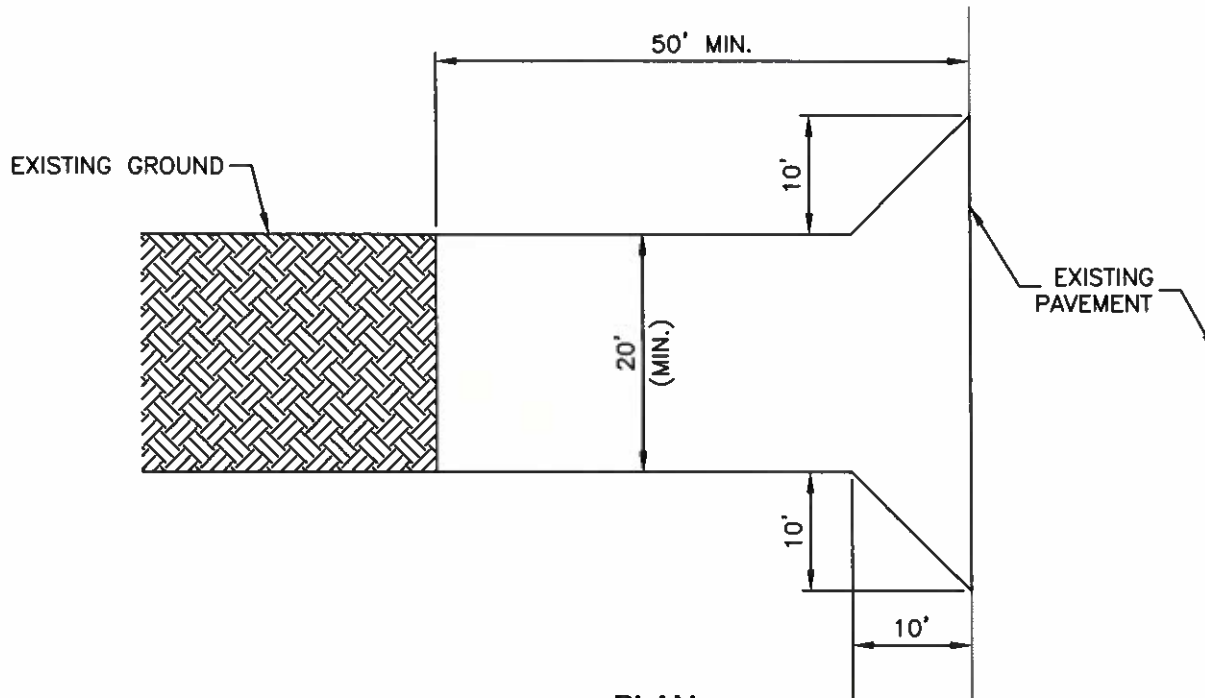
1. EXPANSION JOINTS TO BE LOCATED AT HIGH POINTS, UTILITY STRUCTURES, CURB RETURNS, COLD JOINTS AND 60' INTERVALS (MAX.).
  2. CONTRACTION JOINTS ARE TO BE SAW CUT 2" DEEP AT 20' INTERVALS (MAX.)
  3. INSTALL 2-#4 DEFORMED BARS THAT ARE 10' LONG OVER ALL TRENCHES.
  4. TRANSITION CURB AND GUTTER, AS NECESSARY, TO MEET DRAINAGE STRUCTURE FRAME AND GRATES.
  5. GUTTER FLAG SHALL BE SLOPED AT  $\frac{3}{4}"$  PER FOOT TO OR AWAY FROM CURB BASED ON PAVEMENT PROFILE.
- FORM SIZES TO BE USED 2"x10" IN FRONT AND 2"x12" IN BACK. ANY UNDERCUT BENEATH THE CURB SHALL BE BROUGHT UP TO GRADE WITH SAND OR STONE SCREENINGS, THE COST OF WHICH SHALL BE BORNE BY THE CONTRACTOR.



# TEMPORARY CONSTRUCTION ENTRANCE



ELEVATION

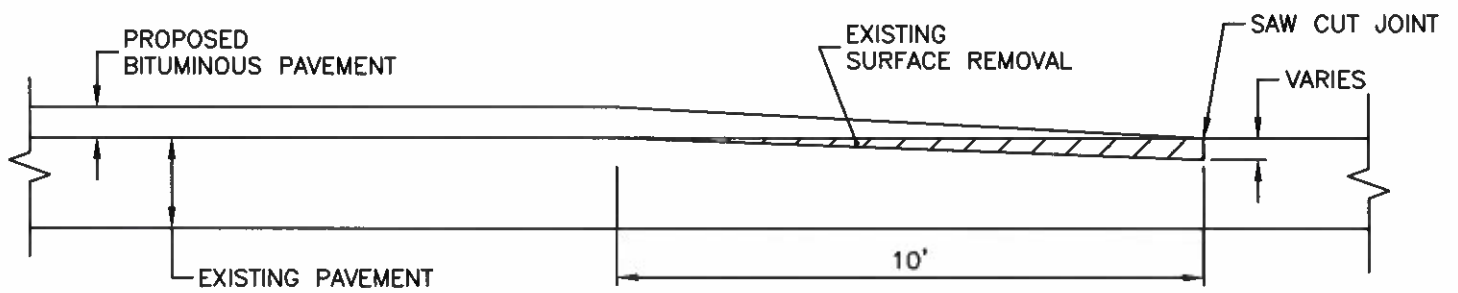


PLAN

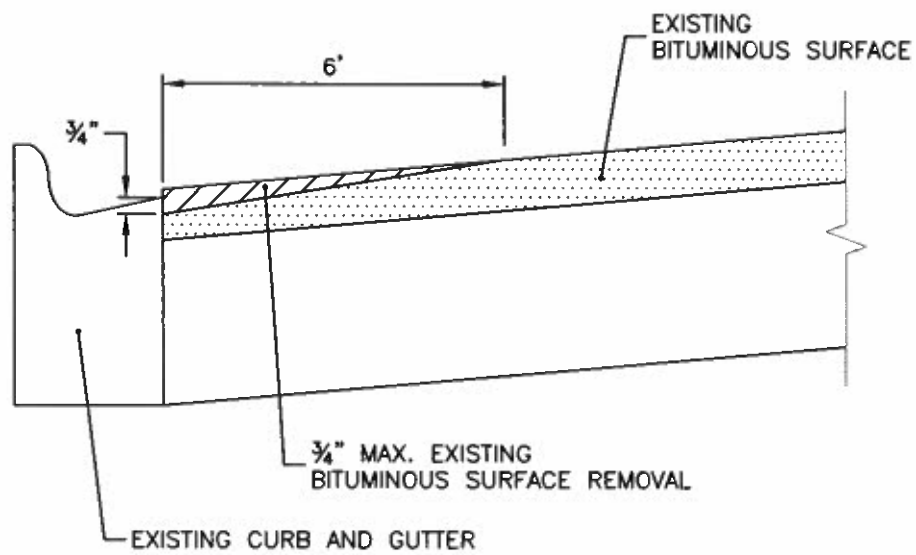
## NOTES:

1. USE 2" TO 3" WASHED STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE SHOULD MUD BE TRACKED OR WASHED ONTO STREET IT MUST BE REMOVED IMMEDIATELY.
3. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO STREET.

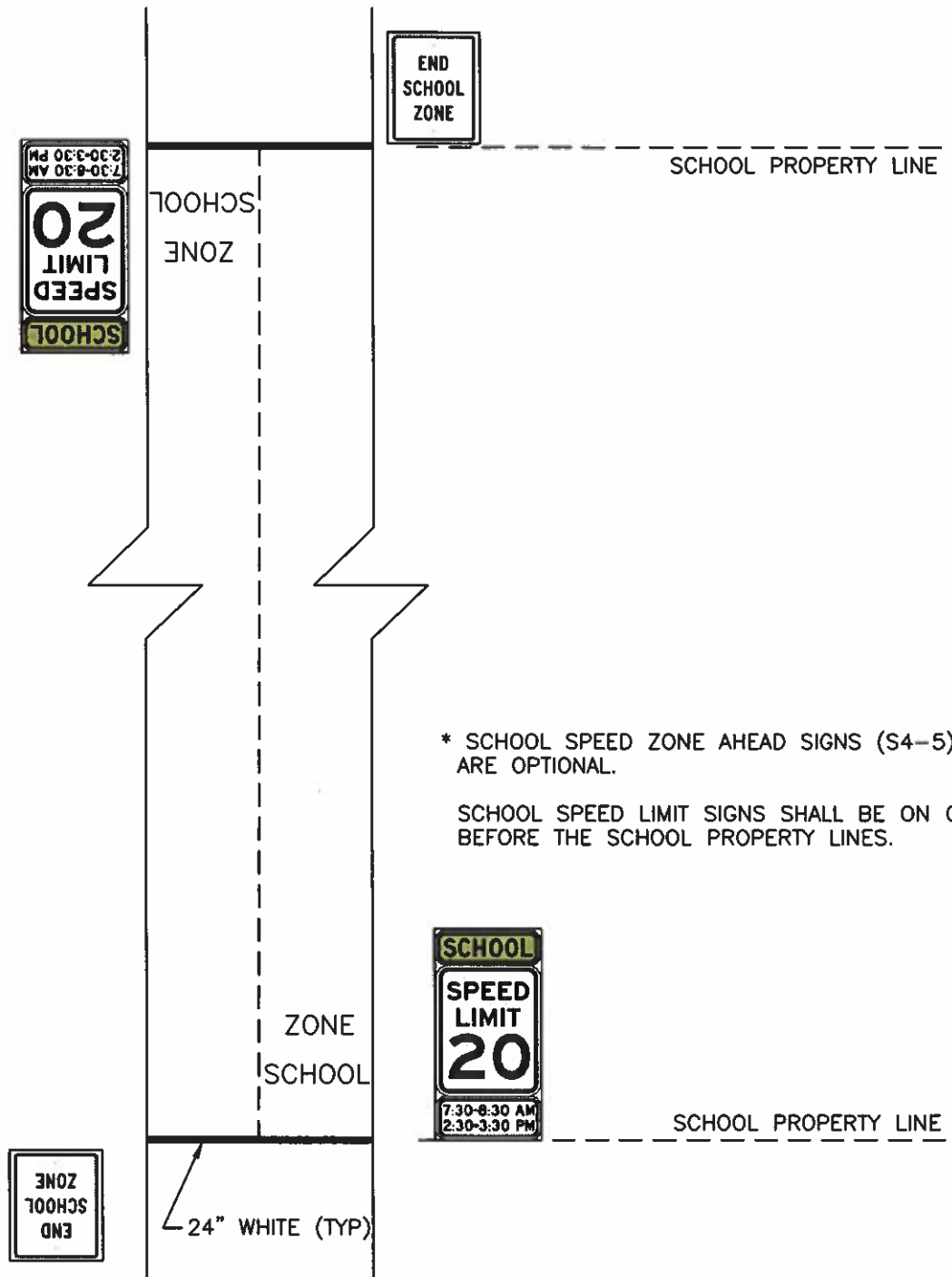
## BUTT JOINT



## EDGE GRINDING DETAIL



# SCHOOL ZONE PAVEMENT & SIGNAGE DETAILS



## NOTES:

- SCHOOL ZONE TEXT SIZING/SPACING:
  - ONE LANE: 18"x96" LETTERS, 3"—4" LETTER SPACING
  - TWO LANE: 19.3' WIDE & 10' TALL (MINIMUM PER MUTCD)
  - SEPARATION BETWEEN THE WORDING SHALL MATCH THE HEIGHT OF THE TEXT
- 24" WHITE PAVEMENT STRIPES SHALL BE PLACED ACROSS DRIVE LANES AT EACH END OF THE SCHOOL ZONE TO DEFINE THE LIMITS. STRIPES CAN BE LOCATED BEFORE SCHOOL PROPERTY IF A DRIVEWAY EXISTS. THIS SHALL ONLY IN BE DONE IN THE FRONT OF THE SCHOOL.
- PAVEMENT TEXT SHALL BE APPROXIMATELY 75' AFTER THE PAVEMENT STRIPE UNLESS IT ALIGNS WITH ANOTHER PAVEMENT MARKING OR A DRIVEWAY, IN WHICH CASE IT SHALL BE EXTENDED.

\* SCHOOL SPEED ZONE AHEAD SIGNS (S4-5) ARE OPTIONAL.

SCHOOL SPEED LIMIT SIGNS SHALL BE ON OR BEFORE THE SCHOOL PROPERTY LINES.

7/29/19



## **Driveway, Apron and Parking Lot Construction Standards and Specifications**

### **General Provisions for Driveways, Aprons and Parking Lots**

All driveways, aprons and parking lots within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with the provisions listed below and extend to serve each parcel within the development. All subdivision parcels and parking lots shall include a minimum of one (1) driveway/apron that provide access to and from the site.

The design of all driveways, aprons and parking lots shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Latest editions of the "Standard Specifications for Road and Bridge Construction"(SSRBC), Recurring Local Roads and Streets Special Provisions
- "Manual of Uniform Traffic Control Devices"
- The Supplemental Specification and Recurring Special Provisions
- IDOT BDE Special Provisions
- Illinois Accessibility Code
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Submittal Requirements**

All required submittal requirements entail:

- Plans
- Permits
- Easement Requests
- Other Agencies (ACOE, MWRD, IDOT, Will and/or Cook County, etc...)

All of these finalized, signed and approved items must be submitted to the Village Engineer and allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

## **Coordination and Staging**

All work on local streets by a Contractor shall be approved by the Village Board then coordinated with the Village Engineer or Public Works Department, as required. Constructor shall maintain roadway passage and redirect pedestrians if an existing sidewalk crosses the proposed location of the driveway. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Prior to pouring any driveways in Village Right of Way, the Public Works Department shall be notified twenty-four (24) hours in advance to schedule inspection. It is the Contractor's responsibility to place barricades upon completion in order to prohibit use until concrete cures. Any damage is Contractor's responsibility to repair or replace.

Necessary signage shall be in place a minimum of forty-eight (48) hours in advance. Notifications shall be issued to the Streets Department, Mayor, Public Works Director, Police Chief and Fire Chief. A Restoration Plan shall be submitted and approved as well.

## **Driveway Construction Criteria**

- A paved access driveway shall be provided from the street lot line to the street pavement for all lots.
- Driveways shall be located a minimum of one (1') foot from a common private property line.
- Driveways shall be located a minimum of three (3') feet from a fire hydrant, street light pole, entrance sign or other standing items.
- No storm, sanitary or water main structures shall be located in the driveway pavement.
- Driveways shall not be sloped or pitched to drain onto the neighboring parcels.
- Residential driveways shall be a minimum slope of two (2%) percent and a maximum slope of eight (8%) percent from garage floor elevation to top of curb.
- All driveway aprons on or over public property, (i.e. parkways) between the curb or the edge of the street and the property line shall be concrete or asphalt, unless approved otherwise.
- Driveways shall be a minimum of ten (10') feet wide, unless otherwise approved by the Village Engineer. Driveway can be no greater than thirty (30') feet wide in the apron at its intersection with the Village Right of Way.
- All black dirt, organic matter and loose fill shall be removed prior to the placement of the aggregate base.

- All base courses shall be laid on a stabilized subgrade as per Section 301 of the latest edition of IDOT SSRBC and inspected by the Village before the placement of concrete or asphalt.
- New driveways shall not be constructed without obtaining a driveway permit from the Building Department and paying the current fee.
- All driveway work constructed in Right of Way shall be cured using a white pigmented, liquid membrane-forming compound. Liquid forming compounds shall be applied within three (3) hours of pour, but not between November 15<sup>th</sup> and April 15<sup>th</sup>.

### **Residential Driveways**

#### **Portland Cement Concrete Driveway**

- Concrete driveways shall be a full seven (7") inches thick when not reinforced,
- If a wire mesh or fiber mesh reinforcement is used, pavement can be five (5") inches thick.
- Minimum aggregate base shall be four (4") inches thick.
- The concrete mix shall be Portland Cement - Class SI with a fourteen (14) day specified strength of 3500 psi at 14 days.

#### **Hot-Mix Asphalt (HMA)**

- Asphalt driveways shall include a minimum six (6") inch aggregate base of compacted crushed stone and a minimum three (3") top course of compacted Hot-Mix Asphalt.
- All materials, size of aggregates, compaction and installation of the same shall comply with the IDOT Standard Specification for Road and Bridge Construction, latest edition.
- HMA shall be rolled with heavy machine roller to a smooth, dense surface.

### **Parking Lots**

- All parking lots that are required to be provided by the Village Codes or Ordinances shall be Portland Cement Concrete (PCC) or Hot-Mix Asphalt.
- All materials, size of aggregates, thickness of layers, compaction and installation of the same shall comply with the latest edition of IDOT SSRBC or in accordance with the Village Engineer's requirements.
- All parking lot pavement shall be pitched to drain all surface water. Catch basins or inlets with heavy-duty cast iron frame and grates shall be installed and connect to storm sewer directing the stormwater to drainage systems or swales, if no storm sewer system is present.
- Parking spaces (length, width and ADA standards) shall comply with the Village Zoning Ordinance and the current edition of the Illinois Accessibility Code.

- Any parking lot being repaired, repaved, seal-coated or re-stripped must comply with the current edition of the Illinois Accessibility Code.
- When the application for permit is made, drawings shall be submitted showing all areas of improvements, grade elevations, storm structures (RIM and invert elevations) and all other information required to confirm proper storm water drainage.
- All storm lines, structures and detention (if applicable) shall comply with the requirements of the Metropolitan Water Reclamation District of Greater Chicago (MWRD) for projects in Cook County or the Will County Stormwater Management Ordinance for projects in Will County.
- Parking lot drainage shall not flow onto adjacent properties. Concrete curbing shall be constructed when necessary.

#### **Steel Plate Requirements for Roadway Excavations**

- The use of steel plates is required for all projects requiring the cutting of roadway pavement. These standards ensure that the Village pavements are left in the same, if not better, condition than they were found before the project. This will reduce congestion and roadway hazards, as well as increase safety in and out of the construction limits.
- The use of steel plates by Contractors and Utility Companies as a temporary cover over an excavated area in the roadway can present safety hazards and other problems if allowed to remain in place for extended periods and not properly secured or maintained.
- When backfill operations of an excavated area in the traveled way cannot be properly completed within a workday, steel plate bridging will be required.
- See Construction Standards for Roadway section for more detail.





## **Sidewalk and Bike Path Construction Standards and Specifications**

### **General Provisions for Sidewalks and Bike Paths**

All sidewalks and bike paths within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with the provisions listed below and extend to the serve each parcel within the development. All subdivisions shall include sidewalks and/or bike paths that provide access to the development.

The design of all sidewalks shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Latest editions of the "Standard Specifications for Road and Bridge Construction", Recurring Local Roads and Streets Special Provisions
- The Supplemental Specification and Recurring Special Provisions
- IDOT BDE Special Provisions
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Submittal Requirements**

All required submittal requirements entail:

- Plats
- Permits
- Easement Requests
- Licensing Agreements
- Other Agencies (IDOT, County, MWRD, Railroad, etc...)

All of these finalized, signed and approved items must be submitted to the Village Engineer to allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

All sidewalk and bike path work by a Contractor shall be approved by the Village Board then coordinated with the State, County and/or Railroad along with the Village Engineer and Public Works Director, as required. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Constructor shall maintain roadway and pedestrian access at all times. Temporary sidewalk and bike path closures as well as interruption of access to residents and businesses shall be of short duration with a minimum of forty-eight (48) hour notice to the Streets Department and Village Engineer or Public Works Director.

Prior to pouring any public sidewalk, the Public Works Department shall be notified twenty-four (24) hours in advance. After removal of forms, backfill sidewalk, schedule re-inspection through the Building Department and barricade to prohibit use until concrete cures.

An Erosion Control Plan shall be submitted.

### **Hot-Mix Asphalt (HMA) and Portland Cement Concrete (PCC) Pavements**

The Geometric and Structural Design have been determined for each Street Classification in the Village. Any modifications to the minimum pavement thicknesses provided shall include a modified Pavement Structural Design meeting the IDOT Pavement Design Procedure.

➤ **Residential Sidewalks**

Aggregate Base Course, Type A	4" CA-6
Portland Cement Concrete	5"
Pavement Width:	5'

➤ **Commercial and Industrial Sidewalks**

Aggregate Base Course, Type A	4" CA-6
Portland Cement Concrete	5"
Pavement Width:	6'

➤ **Residential Bike and Multi-Use Paths**

Aggregate Base Course, Type B	6" CA-6
HMA Surface Course, Mix "D", N50	3"
Pavement Width:	8'

➤ **Commercial and Industrial Bike Path and Multi-Use Paths**

Aggregate Base Course, Type B	6" CA-6
HMA Surface Course, Mix "D", N50	3"
Pavement Width:	10'

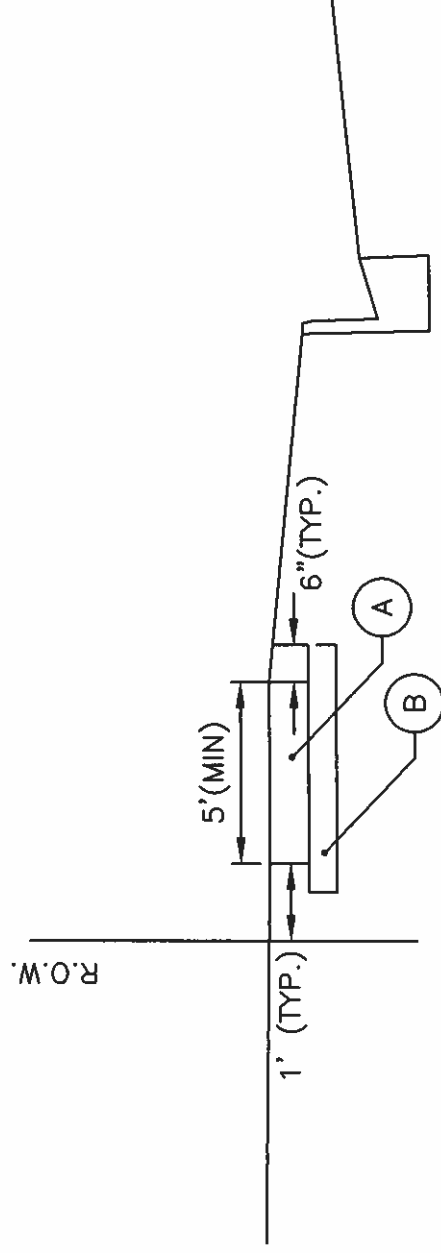
### **Concrete Specifications**

- Minimum Compressive Strength: 3500 psi at fourteen (14) days
- Maximum Slump: Four (4") inches
- Maximum Water Content: Six (6) gallons per bag of cement, including water in stone
- Usage: IDOT Class PV, SI
- All sidewalk constructed in public right of way shall be cured using a white pigmented, liquid membrane-forming compound. Liquid forming compounds shall be applied within three (3) hours of pour, but not between November and April 15<sup>th</sup>.
- Accelerators shall be approved by the Village Engineer prior to usage,

### **Pavement Construction Criteria**

- Sidewalks shall be constructed in all Residential and Commercial Subdivisions and developments in accordance with the most recent Village Ordinances and Standard Details.
- All base courses shall be laid on a stabilized subgrade as per Section 301 of the latest edition of IDOT SSRBC and approved by the Village Engineer.
- Before any paving work is commenced, all grading shall be properly completed as shown in the plans and confirmed by the Village Engineer.
- Grades shall conform in general to the terrain and shall not be less than 0.4% or more than 5%.
- Sidewalks shall be a minimum thickness of five (5") inches. For areas under the jurisdiction of Cook County DOT, Will County DOT, IDOT, etc., that agency's thickness requirements shall be followed unless the Village's requirements are more restrictive.
- Sidewalks shall be a minimum of five (5') feet wide in Residential Districts and six (6') feet wide in Commercial and Industrial Districts.
- Bike paths shall be not less than fifteen (15') feet wide, without approval of the Village Board.
- All sidewalks at intersection and cross walks shall be ADA compliant and include detectable warning plates specified on Sidewalk Ramp Detail.
- Sidewalks shall be located in the right of way one (1') foot from the abutting property line. Sidewalks located along right of ways that are under jurisdiction of another agency shall be constructed according to the agency's requirements, unless the Village requirements are more restrictive.
- When constructed over water and sewer excavations, a minimum of ten (10') feet of rebar shall be used in the sidewalk for reinforcement to protect from future sidewalk settlement.
- The edge of all sidewalks and bike/multi-use paths shall be a minimum of two (2') feet for all elevated, existing or proposed structures (i.e. street light pole, fire hydrant, tree, etc..) except traffic signal and pedestrian signal poles in which it can abut and allow pedestrians to reach the push button while located on the sidewalk or path.
- All underground utility work (water main, sewer, gas mains, electric, house services, etc...) shall be backfilled, settled and compacted prior to the placement of the aggregate base course.
- Any Portland Cement Concrete or HMA Surface proposed to be constructed after November 1<sup>st</sup> shall have written approval from the Village Engineer.

# TYPICAL SECTION SIDEWALK



## LEGEND

1. AGGREGATE BASE COURSE SHALL BE CA-6

2. PREMOULDED EXPANSION JOINTS SHALL BE PROVIDED:

a. AT PROPERTY LINES WHEN CONSTRUCTED AGAINST EXISTING SIDEWALK

b. AT SIDEWALK INTERSECTIONS

c. AGAINST DRIVEWAYS, CURB AND GUTTER AND BUILDINGS

d. EVERY 50 FEET

3. TOOLED CONTRACTION JOINTS SHALL BE PROVIDED EVERY 5 FEET

4. TWO (2) #4 REBAR 10 FEET IN LENGTH SHALL BE PROVIDED OVER ALL UTILITY TRENCHES

5. AT DRIVEWAYS, THICKNESS SHALL BE A MINIMUM OF 7 INCHES THICK

6. WIDTH SHALL BE 6 FEET (6') IN COMMERCIAL AND INDUSTRIAL DISTRICTS

7. SIDEWALK STUBS SHALL ONLY BE LOCATED AT INTERSECTIONS AND ALIGN WITH FUTURE/SIDEWALK EXTENSIONS. STOP/YIELD SIGNS ARE RECOMMENDED IN THESE LOCATIONS.

8. CURB DEPRESSIONS, ADA RAMPS AND DETECTABLE WARNING SURFACES REQUIRED AT INTERSECTIONS. SEE SIDEWALK RAMP DETAILS.

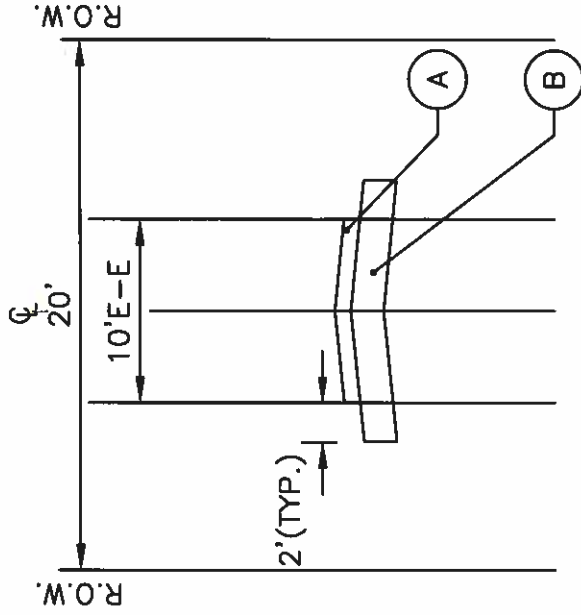
(A)

PORTLAND CEMENT CONCRETE, 5"

(B)

AGGREGATE BASE COURSE, TYPE B, 4"

# TYPICAL SECTION BIKE PATHS



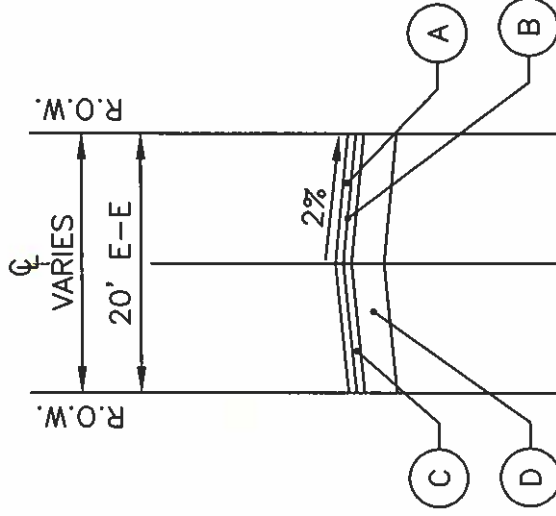
## LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 3" (APPLIED IN TWO LIFTS)
- (B) AGGREGATE BASE COURSE, TYPE B, 6"

## NOTES:

1. PER AASHTO LATEST GUIDELINES DROP GATES REQUIRED AT ALL INTERSECTIONS WITH LANDSCAPE/FENCING TO PREVENT VEHICULAR TRAFFIC/ACCESS
2. MINIMUM 2% CROSS SLOPE REQUIRED TO PREVENT WATER FROM PONDING ON PATH
3. 12"x12" STOP SIGN ON U-CHANNEL POST REQUIRED AT BOTH SIDES OF ROADWAY CROSSINGS. MINIMUM 4' MOUNTING HEIGHT ON RIGHT SIDE OF PATH.
4. BIKE TRAILS SHALL BE 15' WIDE WHEN RECOMMENDED BY PLAN COMMISSION AND APPROVED BY BOARD OF TRUSTEES

# TYPICAL SECTION ALLEYS



## LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50, 1 1/2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (D) AGGREGATE BASE COURSE, TYPE B, 6"

## NOTES:

1. RIGHT OF WAY REQUIREMENTS:  
RESIDENTIAL: 20' MINIMUM  
COMMERCIAL: 30' MINIMUM  
INDUSTRIAL: 30' MINIMUM
2. GARBAGE/DELIVERY USAGE MAY INCREASE PAVEMENT STRUCTURE.

PROPOSED BUILDING

PROPOSED SIDEWALK LOCATION

HANDRAIL

3'

4'

3.5'

VARIES

9"

11"

8"

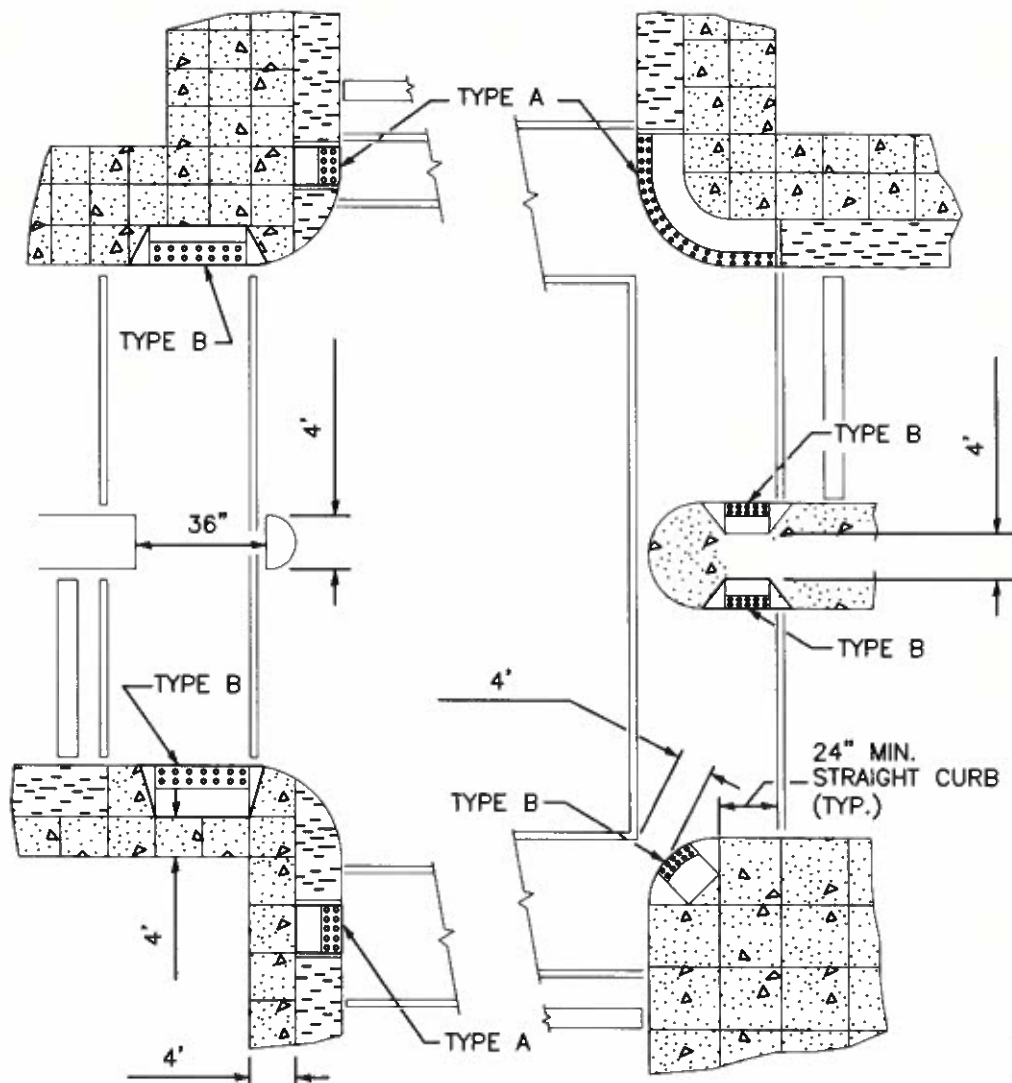
1.5'

PROPOSED WIRE MESH

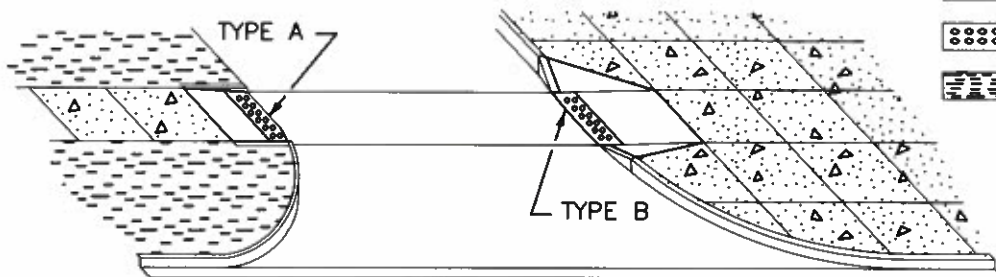
PROPOSED BITUMINOUS

1. PROVIDE ADDITIONAL DRAWINGS FOR HANDRAIL DETAIL, IF REQUIRED.
2. AGGREGATE BASE COURSE SHALL BE AGGREGATE BASE COURSE, TYPE B, 4" (CA-6)  
CONCRETE SHALL BE PORTLAND CEMENT CONCRETE.
4. WIDTH SHALL BE 6 FEET (6') IN COMMERCIAL AND INDUSTRIAL DISTRICTS
5. PREMOULDED EXPANSION JOINT LOCATIONS SHALL MATCH TYPICAL SIDEWALK SECTION DETAIL

# SIDEWALK RAMP DETAILS



## RECOMMENDED LOCATION OF RAMPS



## LEGEND

	SIDEWALK
	RAMP
	DETECTABLE WARNINGS
	NON WALKING AREA

## NOTES:

## RAMPS AT ALLEYS OR ENTRANCES

1. DETECTABLE WARNING SURFACES SHALL BE 2'X5' ARMOR-TILE, ADA SOLUTIONS OR APPROVED EQUAL CAST-IN-PLACE INLINE TRUNCATED DOME TILE, FEDERAL STANDARD COLOR 30166 BRICK RED. A ONE INCH MINIMUM; TWO INCH MAXIMUM SIDE BORDER IS REQUIRED WHEN INSTALLED ON FIVE FOOT WIDE SIDEWALKS. SHALL BE PERPENDICULAR TO ALIGNMENT OF SIDEWALK.
2. FOR ADDITIONAL DETAILS, SEE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD DRAWING 424001-10, 424011-03 & 424021-04 CURB RAMPS FOR SIDEWALKS.







## **Street Lighting**

### **Construction Standards and Specifications**

#### **General**

Street lighting shall be provided by the Owner, Subdivider or Developer throughout the subdivision or development to serve all properties within the subdivision, development or Planned Unit Development (PUD). Such improvements shall consist of light poles, luminaires, foundations, handholes, underground cable and conduit throughout the improved corridor, controllers, cabinets and all other miscellaneous work and equipment necessary for an integrated system of street lights.

All street lighting within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with the latest editions of the provisions listed below and extend to serve each parcel within the development. Should there be any discrepancies between the codes listed below, the most stringent code shall apply.

The design of all roadway lighting systems shall meet the following codes and regulations unless otherwise noted herein.

- Current Federal and State Codes and Regulations
- Commonwealth Edison Company (ComEd)
- National Electrical Code (NEC)
- IDOT Standard Specifications for Road and Bridge Construction, Recurring Local Roads and Streets Special Provisions, latest edition
- Electrical Manufacturers Association (NEMA)
- National Electrical Safety Code, latest edition
- Informational Guide for Roadway Lighting by the American Association of State Highway and Transportation Officials
- American National Standard Practice for Roadway Lighting, (Illuminating Engineering Society of North America RP-8, latest edition)
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park of Design Standards and Village Code of Ordinances.

## **Design Requirements**

The street lighting plan shall show the location and direction of the pole and mast and the proposed routing of the electric cable and duct. The pole size, bracket size, and catalog numbers are to be shown on the street light plans. The street lighting plan and equipment submittals must be approved by the Village Engineer prior to the installation of any part of the system.

The following General Notes shall be included in all lighting plan sets:

1. Contractor to verify location of all underground utilities before trenching or augering.
2. Before installing standards near overhead facilities, call Com Ed for approval or location.
3. For location of existing underground electrical cable, call JULIE-811.
4. Size all conduit as specified on drawings.
5. All luminaires except at intersections and cul-de-sacs shall have Type IV, 2-way distribution.
6. Intersection and cul-de-sacs shall have Type I, 5-way distribution.
7. Luminaires, except on major streets, intersections and cul-de-sacs, shall be grey or color improved.
8. Any tree trimming required as directed by the Village Engineer shall be performed by the Contractor, and the cost of this Work shall be considered Incidental to the Contract.
9. Contractor shall take all necessary measures to restore any specialized landscaping, (i.e. decorative rocks, shrubs, plants, etc.) or shall replace it, the cost of which shall be considered Incidental to the Contract.
10. Materials shall not be ordered or delivered to the job site until all pertinent submittals have been reviewed and approved by the Village Engineer. All materials shall be manufactured in the United States of America. A Letter of Certification shall be provided if requested by the Village.
11. All access handholes and cabinets shall provide full view of traffic.
12. Shimming shall be by means of stainless-steel shims supplied by pole manufacturer, if necessary. Shimming of more than 3/16" will not be permitted.

### **Material Requirements**

- Lighting unit types shall be in accordance with Table 1 included herein and the Village of Tinley Park Standard Details.
- All cobrahead luminaires shall be the GE Evolve Series LED luminaires.
- All lighting units shall feature a GE LightGrid Node, frequency A. A Gateway Access Point Modem shall be installed every 1500 feet. Each gateway can host up to 600 nodes (nodes shall be limited to 500 nodes per gateway, whenever possible)
- Composite ground handholes will be allowed for splicing on a case-by-case basis.
- Minimum conduit or duct size shall be one and a quarter (1-1/4") inches

➤ Internal pole electric cable:

- (1) Minimum cable size shall be No. 10 AWG and shall conform with NEMA WC70
- (2) All cables shall be copper
- (3) Shall be rated 600 volts and Underwriters Laboratories (UL) listed
- (4) Red or Black shall be hot; green ground and white neutral

Fuses

- (1) Fuses shall be midget, ferrule type
- (2) Fuse holders shall be Bussman Tron HEB Series breakaway with copper crimps (Hot and Neutral - Slug Built-In)

Underground cable

- (1) Cable for residential developments shall be in duct and include a minimum of four (4) No. 6 AWG copper in duct
- (2) Cable for commercial and industrial shall be determined based on electrical load and voltage drop calculations
- (3) Shall be XLP Type-USE, extra abrasion resistance, 600 volts installed in Schedule 40 insulated conduit a minimum of thirty (30") inches below finished grade or approved equal.
- (4) Direct bury cable is not allowed.
- (5) Shall conform with NEMA WC-70

➤ Each reinforced concrete foundation shall have a minimum of two raceways

Electrical Requirements

- Electric service shall be 120/240 V, single phase, 60 Hz, as provided by ComEd
- Lighting systems shall feature alternating red/black -120V/+120V circuits
- All lighting systems shall have metered control cabinets
- Voltage drop from the electric service to the last pole in each circuit shall be limited to 6%.
- All wiring shall be installed in HDPE unit duct or preassembled cable in coilable, non-metallic conduit.
- Duct shall be installed within rigid galvanized steel conduit underneath all roadway and commercial driveway crossings, impervious surfaces, sidewalks, paths, and inaccessible areas. Rigid galvanized steel shall extend a minimum of two (2') feet beyond the back of curb or edge of pavement. Ends shall be capped. Maximum length shall be two hundred (200') feet.
- Wiring shall be continuous from source to pole or from pole to pole. No underground splices will be allowed.
- Minimum installation depth for underground cable shall be thirty inches (30")

➤ Fusing

- (1) A fused disconnect splice shall be installed for each non-grounded conductor in the poles.
- (2) The fuse shall be completely enclosed by the splice connector and protected from water and weather damage.
- (3) The contacts shall be spring loaded to exert contact on the fuse and fuse holder. Terminals of the splice connector shall be crimped onto the line connectors.
- (4) Conductors shall be crimped, copper-sleeved, insulated and made weatherproof with closed end connectors. Wire nuts will are not allowed.

➤ Grounding

All poles and feed points shall be grounded

Ground rod shall be 5/8" x 10' copper weld rod

Ground rod installed to height equal to pole handhole

Layout – Residential Developments

- Decorative lighting will be considered on a case-by-case basis, and must be approved by the Village Board of Trustees
- Type 2 conventional lights shall be installed at all mid-block locations. Spacing shall not exceed 300'. All lights shall be installed at lot lines to avoid conflicts with utility service lines, service walks, and driveways.
- Type 4 conventional lights shall be installed at all intersections, curves, knuckles, eye-brows, and at the end of all cul-de-sacs.
- Lights shall not be located in areas in which it is likely they would be struck by a vehicle, such as on the straight side of tee intersections.

Layout – Major Roadways, Commercial and Industrial Developments

Street lighting shall be designed in accordance with the Illuminating Engineering Society (IES) RP-8, latest edition. Calculations shall be performed using photometric software such as AGI32 produced by Lighting Analysts, Inc. All calculations shall consider an R3 pavement type and a light depreciation factor of 0.7.

The levels defined in IES RP 8 are minimum acceptable levels and the design approach shall be to achieve but not significantly exceed these levels. Calculated lighting levels shall not exceed the values for the next higher roadway classification for the respective combination land use / pedestrian area. For example, if a roadway is determined to have a classification of Local/Low, the maximum levels for this roadway shall not exceed the classification of Collector/Low.”

Straight line calculations shall be performed using the luminance method and shall include veiling luminance calculations per RP-8. The calculation submittals shall include all typical pavement widths and lane configurations.

Intersection calculations shall use the actual project CADD geometry to produce calculation printouts in accordance with RP-8. The illuminance method shall be used.

Poles shall be located at all intersections and spaced per calculations performed in accordance with RP-8. The developer shall consult with the Village Engineer to assist with determining roadway and area classifications. Poles shall also be located at the ends of cul-de-sacs and at curves in roadway as required by the Village Engineer. Poles shall be set in the parkway a minimum of two (2) feet from the back of curb. Where the distance between the sidewalk and the curb is such that this location is impractical or where the sidewalk adjacent to the curb, the Village Engineer shall review and approve alternate locations for the pole.

In no cases shall light pole spacing exceed three hundred feet (300')

Lighting on IDOT routes shall be designed and permitted in accordance with the District 1 General Guidelines for Lighting Design, November 2011.

### **Submittal Requirements**

Submittals shall be submitted to the Village Engineer and Village Electrical Department to allow for review two (2) weeks prior to construction. Any initial review requirements by the Village Engineer shall be submitted allowing sufficient time for comments, revisions, and final completion.

Contractor is to conduct the research into the timely availability of the equipment and to ensure that all materials/equipment are in strict conformance with the contract documents and delivery schedules are compatible with the project time constraints.

Submittals shall include but not be limited to the following:

- Design Plans, signed and sealed by a Professional Engineer registered in the State of Illinois
- Plats of Subdivision
- Permits
- Easement Requests
- Licensing Agreements
- Soil boring reports justifying foundation depth
- A complete set of Shop Drawings including: pole, arm, luminaire, lighting controller, unit duct, conduit, handholes, cable, ground rod, fuse kits, concrete mix design, rebar, foundation raceways, anchor bolts, etc. Shop drawings shall be in electronic PDF format.
- Voltage drop calculations
- Photometric calculations for industrial or commercial developments.

## **Construction**

All street lighting work by the Contractor shall be coordinated with the State, County, and/or Railroad along with the Village Engineer and Public Works Director, as required. Connections to the required power source shall be made with Com Ed and follow the necessary rules and regulations.

Contractors shall be IDOT Pre-Qualified for any work within IDOT Rights of Way.

Street lights shall be installed and in good working order immediately upon completion of the roadway base course, sanitary sewer, water mains, storm sewer, AT&T, ComEd and Nicor installations. The developer shall arrange with the ComEd to energize the street light system as soon as possible. The developer shall be responsible for all connection fees.

The Village shall be billed for energy usage. Maintenance of the street light network within the development shall be the developer's responsibility until Village Board formally accepts subdivision improvements. The Village Board will not formally accept the street light network until they have operated for twelve (12) months, receipt of as-built drawings and final approval by the Village Engineer. Reports of outages made to the Village in the interim will be addressed by the Village Public Works Department at the expense of the developer.

The developer or contractor shall be responsible for all work and costs associated with commissioning the new LightGrid nodes into the Village's system.

Developer is responsible for contacting the Village Building Department/Inspector and Public Works Electrical Department to complete a pre-inspection, service connection/meter inspection and final inspection. After Building Department/Inspector approves the pre-inspection, Developer must request a field inspection from ComEd for service connection/meter installation. Developer must then request a final inspection with the Public Works Electrical Department twenty-four (24) hours in advance to arrange for a jobsite visit to turn on the lights.

Inspections of street lights shall be required for the following:

- Pre-pour Inspection (Request a minimum of 24 hours before the pour through Public Works Department). Prior to pouring foundations once hardware is installed
- Trench Inspection
- Final Inspection

## **Post Construction**

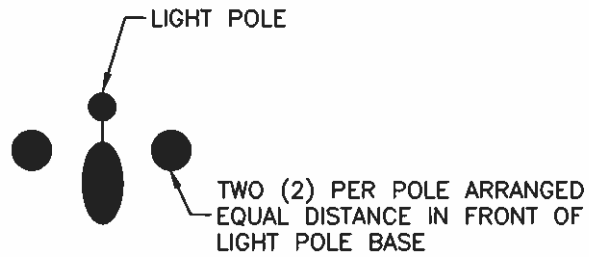
Upon completion of the projects(s), Electrical Contractor or Developer shall provide three (3) sets of Record Drawings (11"x17") to the Village Engineer, Building Inspector and Public Works Director for review. As-built information shall included but not be limited to the following:

- Number and Location of Poles/Luminaires, Wiring and Control Boxes.
- Red-line plans clearly noting any deviation from the approved design plans.
- Voltage
- Lamp Wattage
- Electrical Load
- Wire Size(s)
- Any violations with Com Ed standards are the responsibility of the Developer or Electrical Contractor. Any and all violation and corrections are the Developer's responsibility.

Developer and/or contractor shall perform electrical testing in the presence of Village Staff to confirm all work had been completed in accordance with all rules and polices listed above. Upon completion of the electrical testing and approval of the Record Drawings, a zip drive with the approved plan sets and the Record Drawings (both .PDF and .DWG) shall be provided to the Village Engineer.

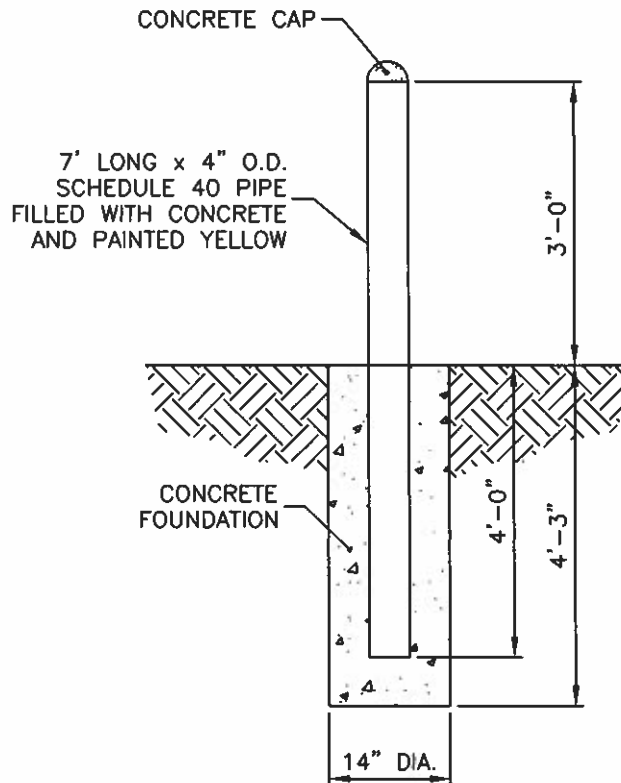
Ownership and maintenance of the lighting system shall remain with the developer/contractor until the Village issues a formal letter accepting ownership and maintenance.

## POLE PROTECTION DETAIL



### POLE PROTECTION DETAIL-PLAN VIEW

(FOR POLES LOCATED IN ASPHALT DRIVE  
OR AT "T" INTERSECTIONS)



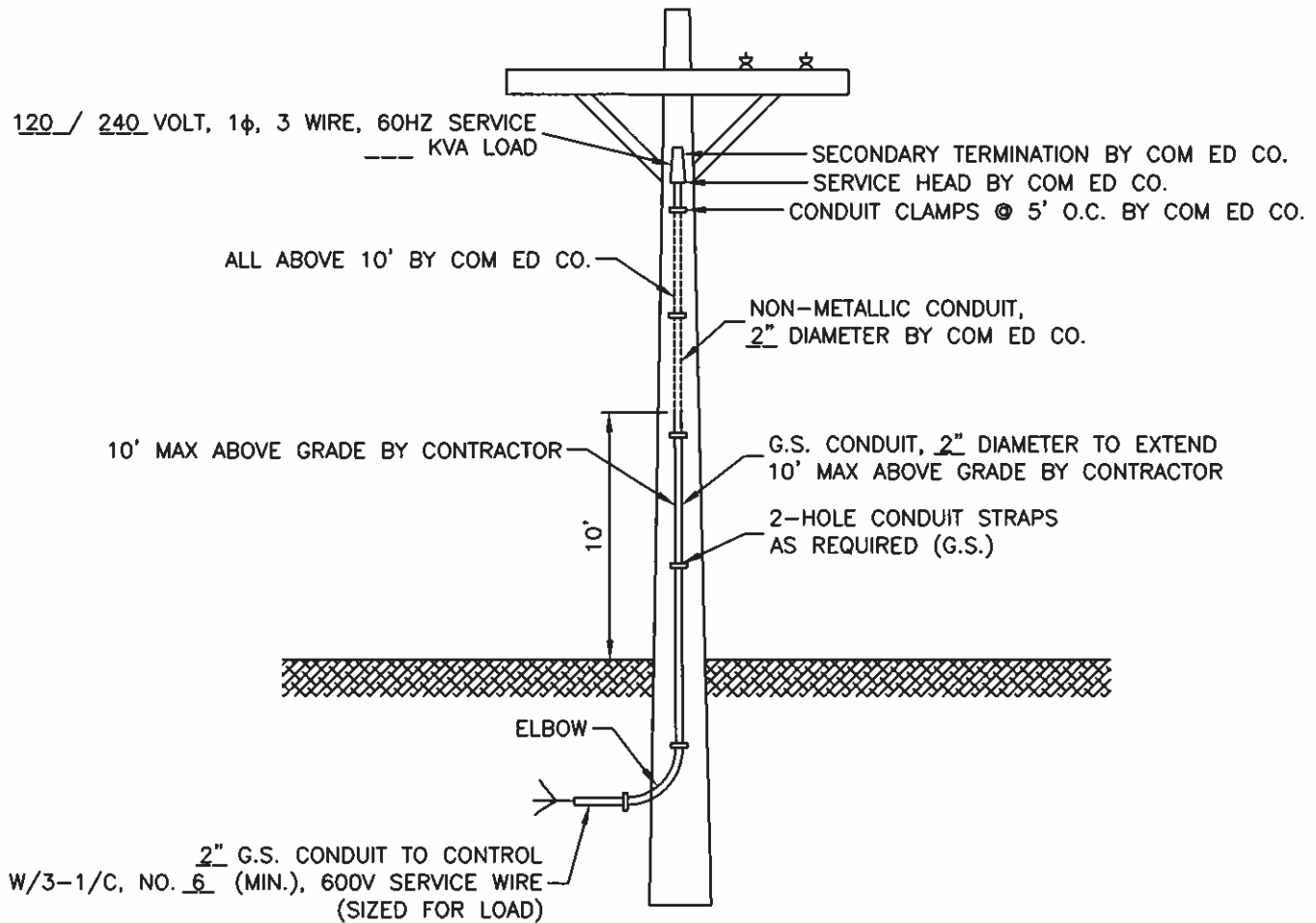
### POLE PROTECTION DETAIL-SECTION VIEW

#### NOTES:

1. POLE PROTECTION SHALL BE REQUIRED WHERE POLES ARE VULNERABLE TO BEING HIT (I.E CUL DE SACS, 3-WAY INTERSECTIONS, ETC.)



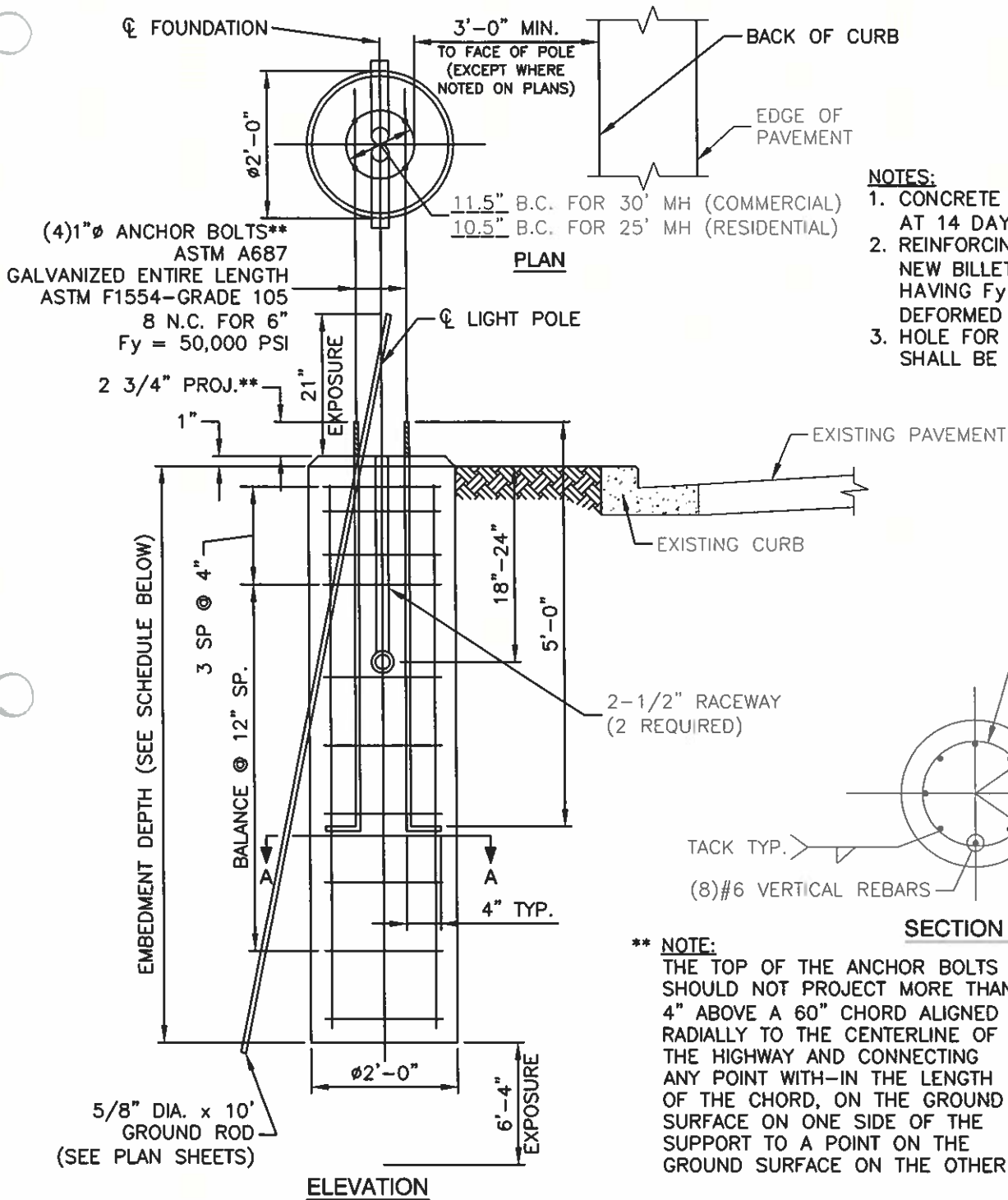
# ELECTRIC UTILITY SERVICE CONNECTION (OVERHEAD)



## NOTES:

1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRICAL SERVICE".
2. CONTRACTOR SHALL PROVIDE CONDUIT BUSHING & SEALING COMPOUND AT TOP OF RISER.
3. SHALL TIE TO NEW COM ED METER.

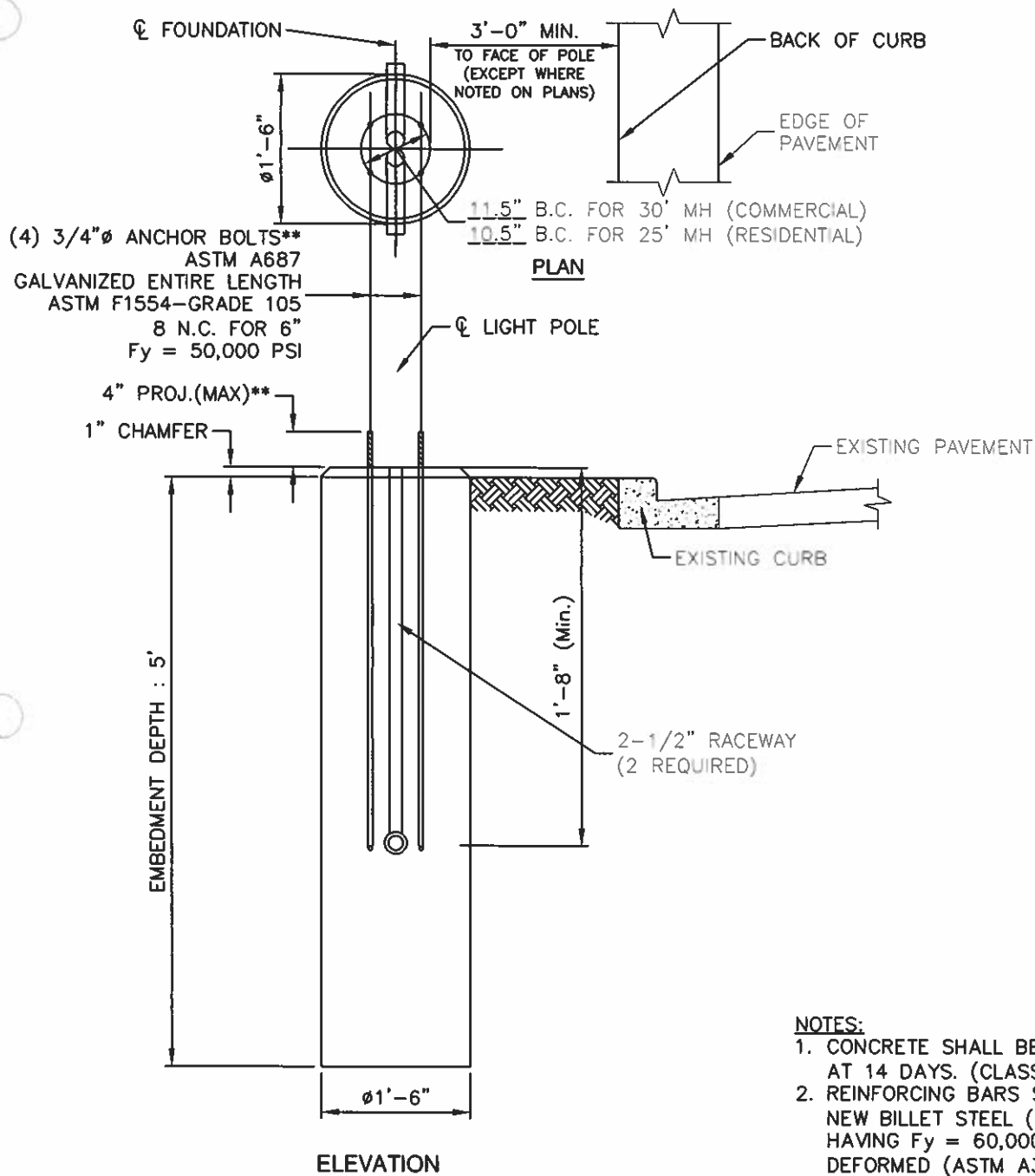
# TYPICAL LIGHT POLE FOUNDATION



FOUNDATION SCHEDULE\*

		EMBEDMENT				
		MOUNTING HEIGHT				
DESCRIPTION	STANDARDS	25 FT.	30 FT.	35 FT.	40 FT.	50 FT.
SOFT CLAY	Q <sub>u</sub> = .375-.50 T/FT. <sup>2</sup>	11'-0"	11'-0"	11'-0"	13'-0"	14'-0"
EDIU M CLAY	Q <sub>u</sub> = .50-1.0 T/FT. <sup>2</sup>	9'-0"	9'-0"	9'-0"	9'-6"	10'-0"
DENSE CLAY	Q <sub>u</sub> = 1.0-2.0 T/FT. <sup>2</sup>	7'-0"	7'-0"	7'-0"	7'-0"	8'-6"
LOOSE SAND	φ=34'	9'-0"	9'-0"	9'-0"	9'-0"	11'-0"
MEDIUM SAND	φ=37.5'	8'-3"	8'-3"	8'-3"	8'-3"	9'-6"
DENSE SAND	φ=40'	7'-9"	7'-9"	7'-9"	7'-9"	8'-6"

# TYPICAL DECORATIVE LIGHT POLE FOUNDATION



## NOTES:

1. CONCRETE SHALL BE 3500 PSI AT 14 DAYS. (CLASS SI)
2. REINFORCING BARS SHALL BE OF NEW BILLET STEEL (ASTM A615) HAVING  $F_y = 60,000$  PSI AND DEFORMED (ASTM A307)
3. HOLE FOR THE FOUNDATION SHALL BE AUGURED
4. LAYOUT OF "L" SHAPED ANCHOR BOLTS SHALL FORM BOX WITHIN FOUNDATION

## \*\* NOTE:

THE TOP OF THE ANCHOR BOLTS SHOULD NOT PROJECT MORE THAN 4" ABOVE A 60" CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT WITH-IN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.

# STANDARD STREET LIGHT POLE

A	B	C	J		MAXIMUM EPA					DL	CATALOG NUMBER
MTG. HGT.	WALL THICKNESS	BUTT DIAMETER	ARM LENGTH	LGTH. WEIGHT	90	100	110	120	130	CL. NUMBER	
25	0.188"	7	4'	60	10.4	8.2	7.6	6.4	5.4	21-292	RTA25D7B4M14-"
25	0.188"	7	6'	60	8.6	6.8	6.2	5.2	4.4	21-295	RTA25D7B4M16-"
25	0.188"	7	8'	40	6.4	5.0	4.6	3.8	3.0	21-297	RTA25D7B4M18-"
30	0.188"	8	4'	60	10.0	7.8	7.4	6.0	5.0	21-582	RTA30D8B4M14-"
30	0.188"	8	6'	60	8.2	6.4	6.0	5.0	4.2	21-585	RTA30D8B4M16-"
30	0.188"	8	8'	40	6.0	4.8	4.4	3.6	2.8	21-587	RTA30D8B4M18-"
30	0.188"	8	10'	40	6.0	4.8	4.4	3.4	2.8	21-590	RTA30D8B4M1A-"
35	0.250"	8	4'	60	9.6	7.6	7.0	5.8	5.0	21-882	RTA35P8B4M14-"
35	0.250"	8	6'	60	7.8	6.2	5.8	4.8	4.0	21-885	RTA35P8B4M16-"
35	0.250"	8	8'	40	5.8	4.6	4.2	3.4	2.8	21-887	RTA35P8B4M18-"
40	0.250"	8	4'	60	9.2	7.4	6.8	5.4	4.2	50700-045	RTA40P8B4M14-"
40	0.250"	8	6'	60	7.6	6.0	5.6	4.8	3.5	50700-009	RTA40P8B4M16-"
40	0.250"	8	8'	40	5.6	4.4	4.0	3.2	2.6	50700-025	RTA40P8B4M18-"

## Catalog Number for 25' Pole

The catalog number for Hapco poles utilizes the following identification system.



## Catalog Number Example

**RTA30D8B4M18-BA**

Round Tapered Aluminum, 30' Mounting Height, .188" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, 4-Bolt Base, Mast Arm Single, 8' Arm Length, Black Powder Coat Finish.

## Wall Thickness

D = .188"

F = .250"

## Butt Diameter

7 = 7" - 25' Pole

8 = 8" - 30' & 35' Poles

## Top Diameter

B = 4.5" - All Poles

## Base Style

4 = 4-Bolt Base - All Poles

## Arm Style

M = Mast - All Poles

## Arm Quantity

1 = Single - All Poles

## Arm Length

4 = 4'

6 = 6'

8 = 8'

A = 10'

## Finish

O1 = Satin Aluminum

BA = Black Powder Coat

BH = White Powder Coat

BM = Dark Bronze Powder Coat

BY = Dark Green Powder Coat

GC = Gray Powder Coat

\*\* = Specify Finish



www.hapco.com



# STANDARD STREET LIGHT POLE

A	B	C	J		MAXIMUM EPA					DLI	
MTL. HGT.	WALL THICKNESS	BUTT DIAMETER	ARM LENGTH	LINK WEIGHT	90	100	110	120	130	CAT. NUMBER	CATALOG NUMBER
25	0.188"	7	4'	60	10.4	8.2	7.6	6.4	5.4	21-292	RTA25D7B4M14-"
25	0.188"	7	6'	60	8.6	6.8	6.2	5.2	4.4	21-295	RTA25D7B4M16-"
25	0.188"	7	8'	40	6.4	5.0	4.6	3.8	3.0	21-297	RTA25D7B4M18-"
30	0.188"	8	4'	60	10.0	7.8	7.4	6.0	5.0	21-582	RTA30D8B4M14-"
30	0.188"	8	6'	60	8.2	6.4	6.0	5.0	4.2	21-585	RTA30D8B4M16-"
30	0.188"	8	8'	40	6.0	4.8	4.4	3.6	2.8	21-587	RTA30D8B4M18-"
30	0.188"	8	10'	40	6.0	4.8	4.4	3.4	2.6	21-590	RTA30D8B4M1A-"
25	0.250"	8	4'	60	9.8	7.6	7.0	5.8	5.0	21-582	RTA35F8B4M14-"
25	0.250"	8	6'	60	7.8	6.2	5.8	4.8	4.0	21-585	RTA35F8B4M16-"
25	0.250"	8	8'	40	5.8	4.6	4.2	3.4	2.8	21-587	RTA35F8B4M18-"
40	0.250"	8	4'	60	9.2	7.4	6.8	5.4	4.2	50700-045	RTA40F8B4M14-"
40	0.250"	8	6'	60	7.6	6.0	5.6	4.6	3.6	50700-009	RTA40F8B4M16-"
40	0.250"	8	8'	40	5.6	4.4	4.0	3.2	2.6	50700-025	RTA40F8B4M18-"

## Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.



## Catalog Number Example -

**RTA 30 D 8 B 4 M 1 6 - 01**

Round Tapered Aluminum, 30' Mounting Height, .188" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, 4-Bolt Base, Meel Arm, Single, 6' Arm Length, Satin Aluminum Finish.

## Wall Thickness

D = .188"

F = .250"

## Butt Diameter

7 = 7"

8 = 8"

## Top Diameter

B = 4.5"

C = 6"

## Base Style

4 = 4-Bolt Base

## Arm Style

M = Meel

## Arm Quantity

1 = Single

## Arm Length

4 = 4'

6 = 6'

8 = 8'

A = 10'

## Finish

D1 = Satin Aluminum

BA = Black Powder Coat

BH = White Powder Coat

BM = Dark Bronze Powder Coat

BV = Dark Green Powder Coat

GC = Gray Powder Coat

★ = Specify Finish



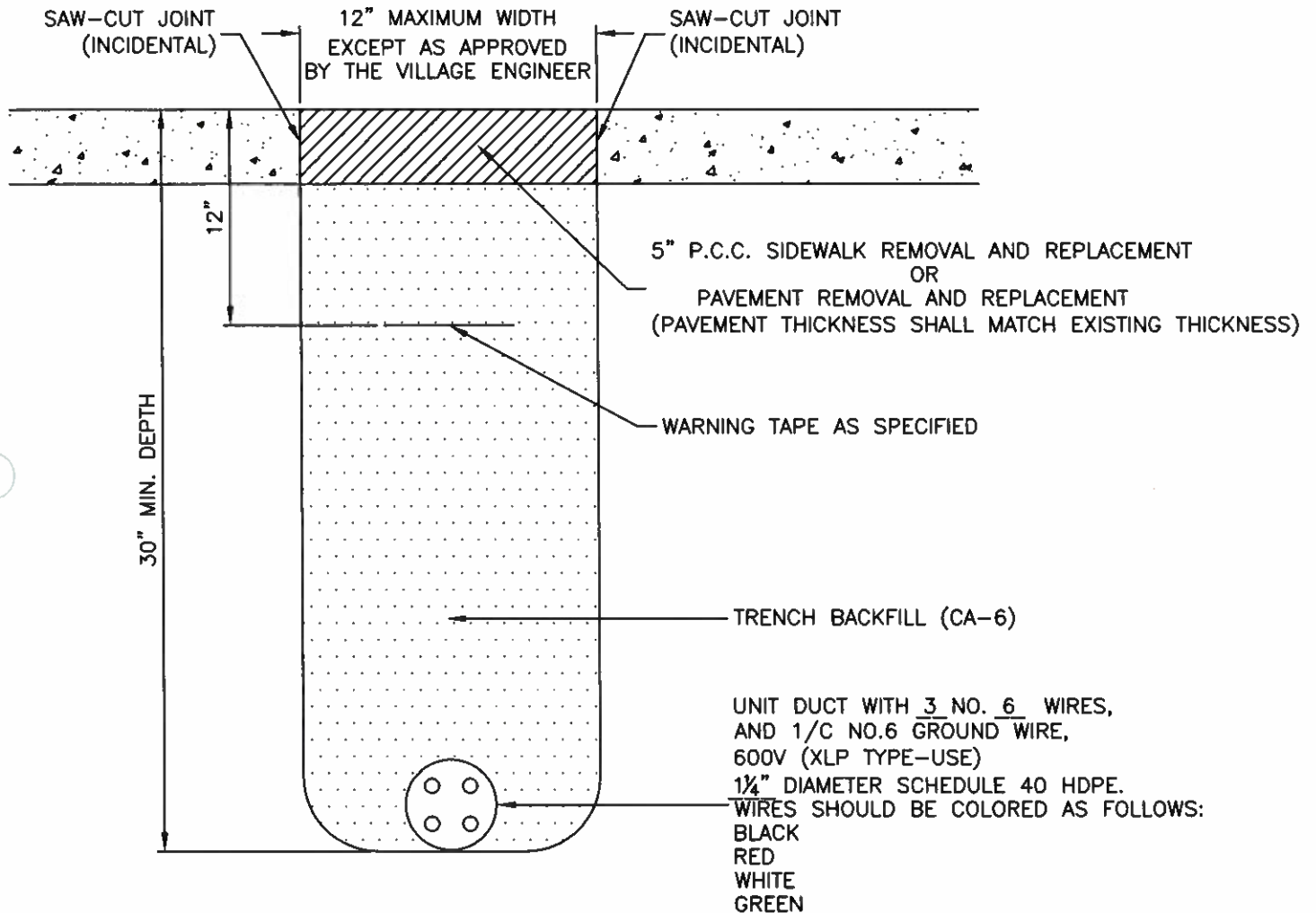
www.hapco.com



Village of  
**Tinley Park**  
ILLINOIS

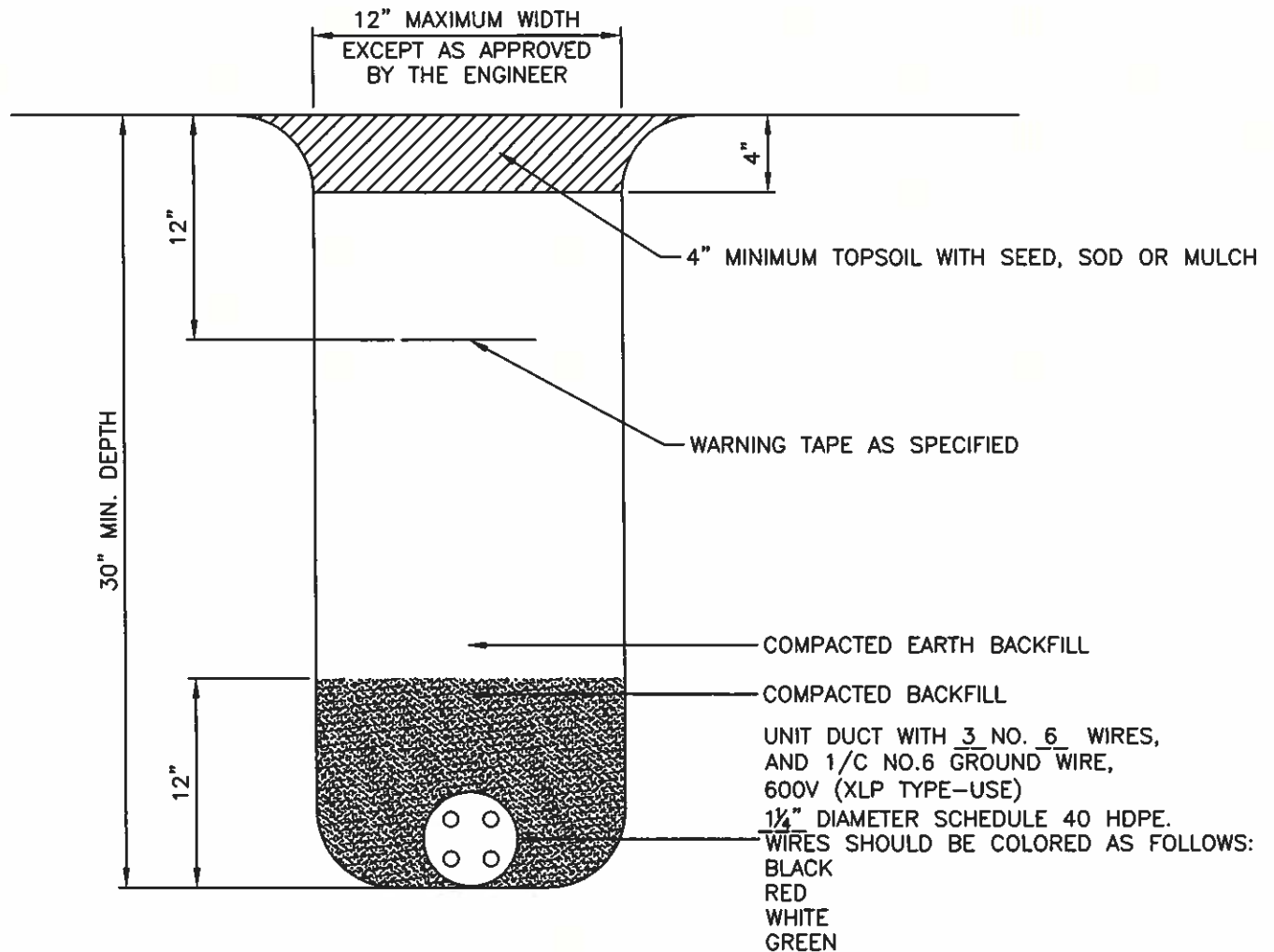
# TYPICAL TRENCH DETAIL FOR ELECTRIC CABLE

(UNDER OR WITHIN 2' OF PAVEMENT OR SIDEWALK)



# TYPICAL TRENCH DETAIL FOR ELECTRIC CABLE

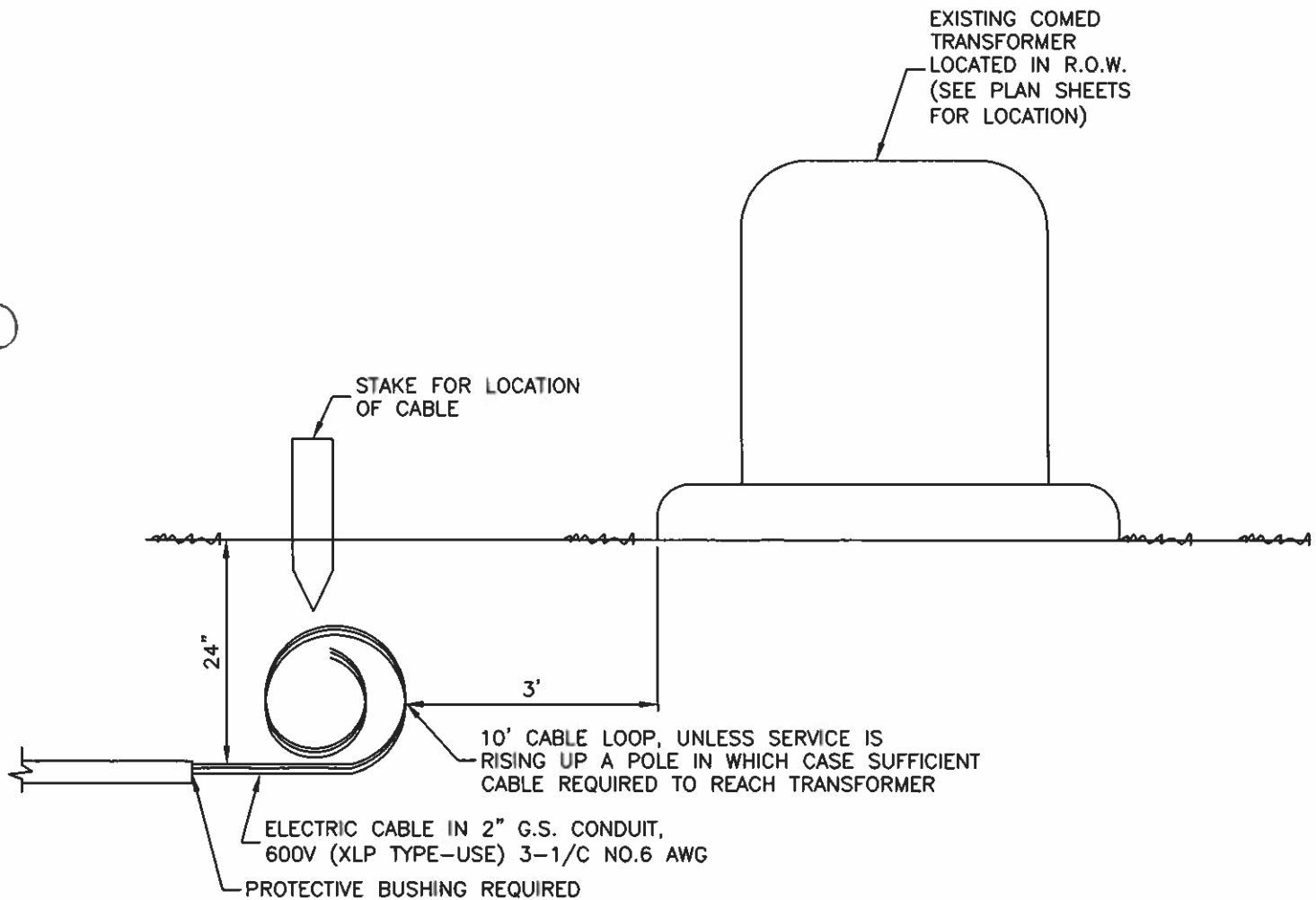
(UNDER LANDSCAPED AREA)





# ELECTRIC UTILITY SERVICE CONNECTION

(UNDERGROUND)



**NOTE:**  
MINIMUM SIZE OF DUCT AND CONDUCTORS SHOWN ABOVE -  
THESE SHOULD BE SIZED ACCORDING TO THE SYSTEM LOAD

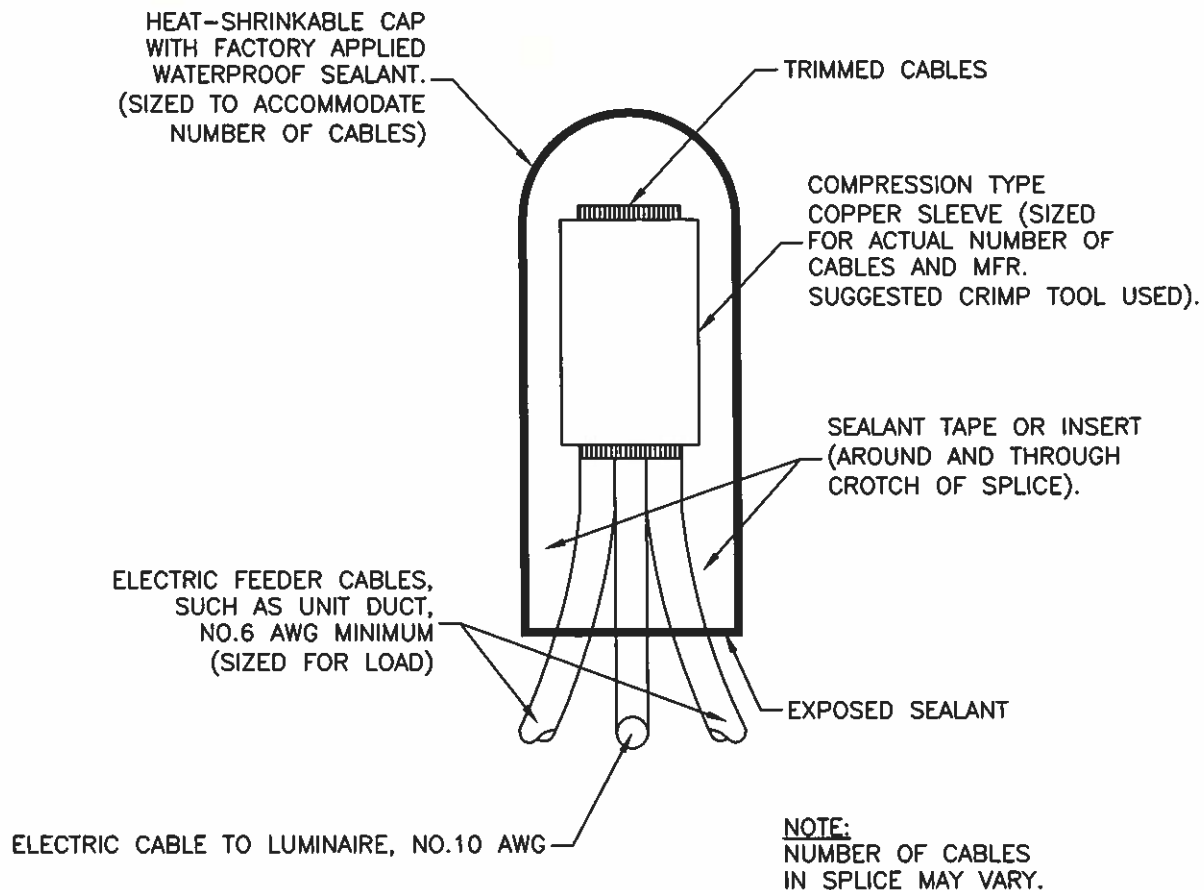
ANY AND ALL SERVICE STANDARDS SHALL MEET MOST RECENT  
VERSION OF COM ED SYSTEM STANDARD

\*TRANSFORMER SHALL TIE TO METERING DEVICE PER COM ED REQUIREMENTS

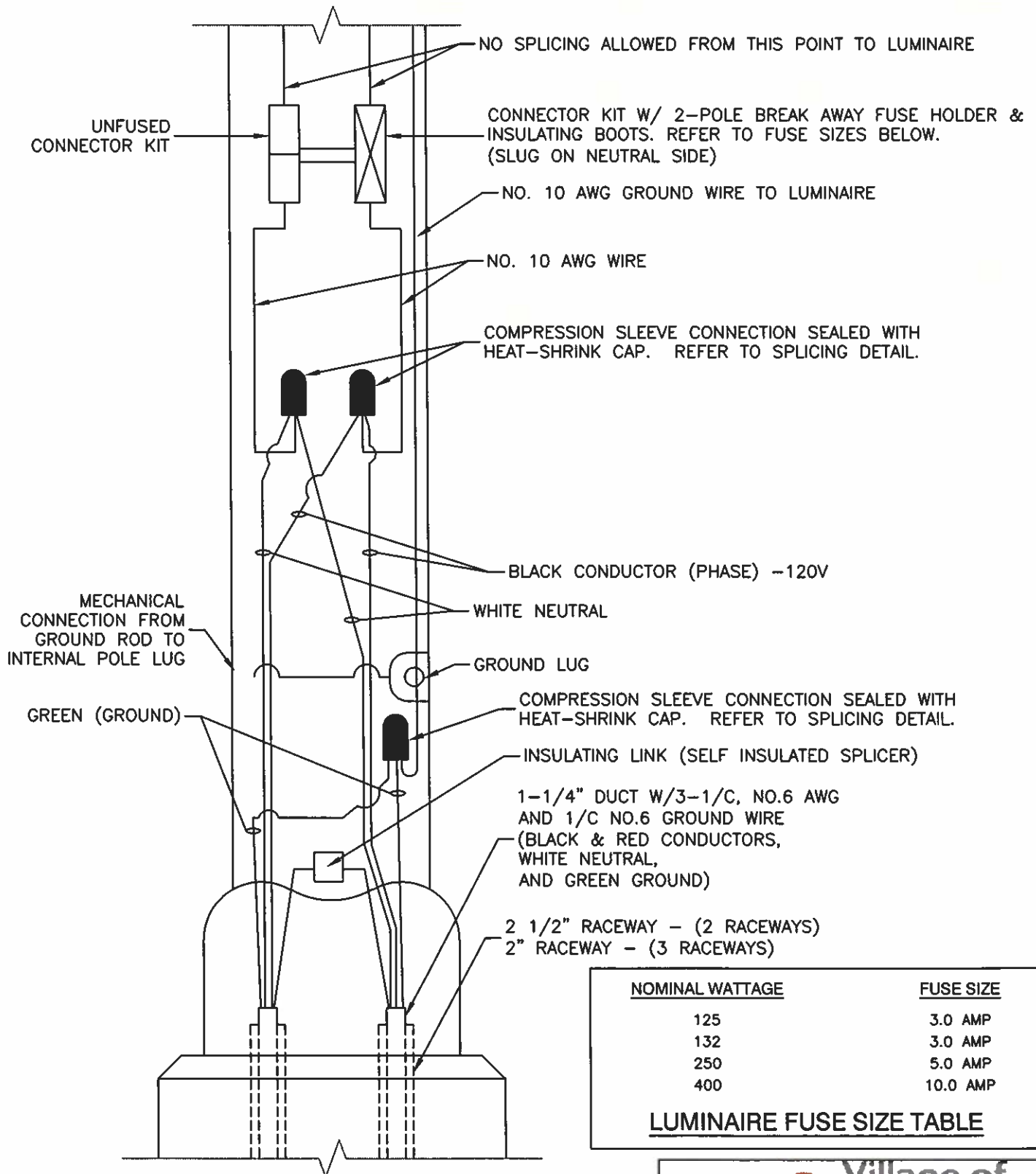




# SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS



# POLE HANDHOLE WIRING DIAGRAM



## NOMINAL WATTAGE

## FUSE SIZE

125	3.0 AMP
132	3.0 AMP
250	5.0 AMP
400	10.0 AMP

## LUMINAIRE FUSE SIZE TABLE

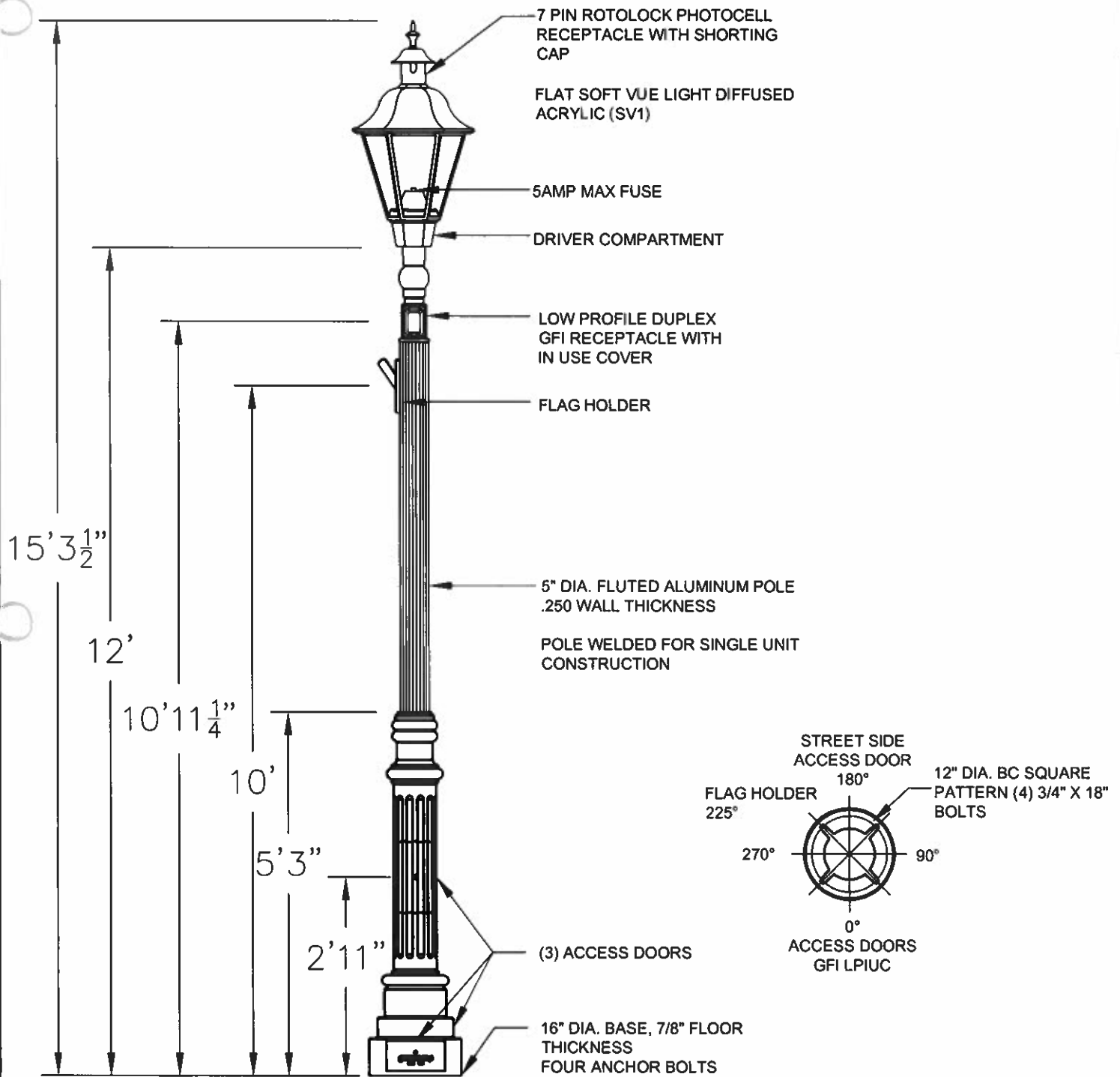
### NOTE:

ALLOW 36" LOOP OF CABLES TO INSURE SUFFICIENT SLACK FOR WITHDRAWAL OF THE CONNECTORS OUTSIDE OF THE POLE HANDHOLE.

(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)



# STREET LIGHT POLE - LIGHT EMITTING DIODE (LED)

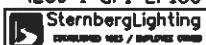


SSP10042

\* Y0118: CUSTOM TINLEY PARK FIXTURE WITH REMOVABLE DECO FINIAL CAP & WHIP (LEADS) INCLUDED FROM CONTROL NODE BY OTHERS TO GFI ON POLE SHAFT

\* Y0117: CUSTOM TINLEY PARK POLE WITH A TOTAL OF THREE HAND HOLES & CUSTOM POLE TOP

TINLEY PARK, IL  
TINLEY PARK, IL  
SSP10042-PT-6130CLED-12L22T3-MDL014-SV1-R7-SC-5AFUSE/1112FP5  
-250-1-GFI LPIUC-FH/BKT



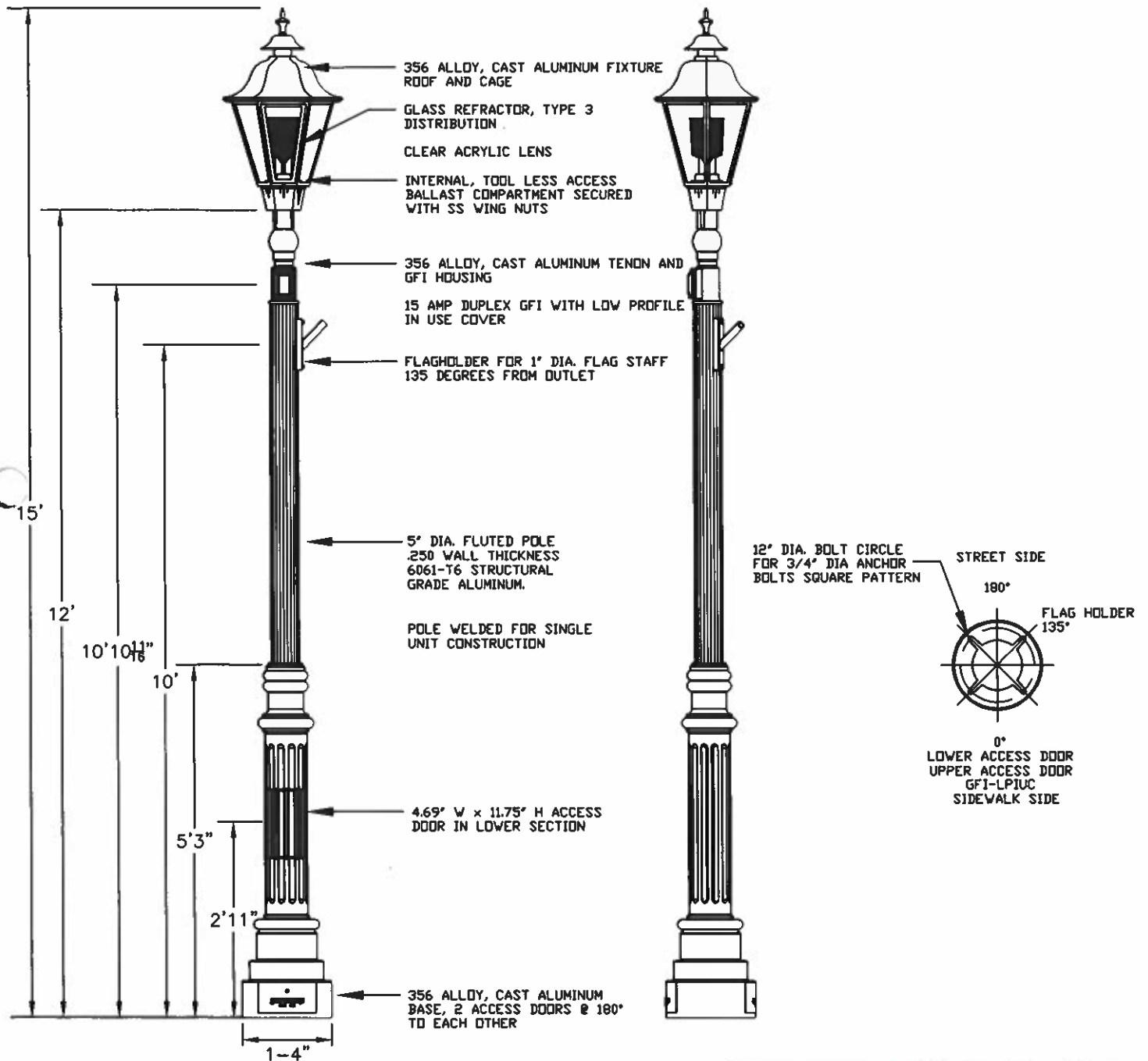
EH

SC38347



# STREET LIGHT POLE - HIGH PRESSURE SODIUM

\* DETAIL FOR RE-PLACEMENT PURPOSES ONLY



TINLEY PARK, IL

PT-6130C-100HPS120-MDG-RE3-CA/2227-1112FP5-GFILPIUC-(2)HH-FH /BK



SS  
1/20

SC32372A



Technical drawing showing two views of a meter pedestal assembly.

**Front View (Left):**

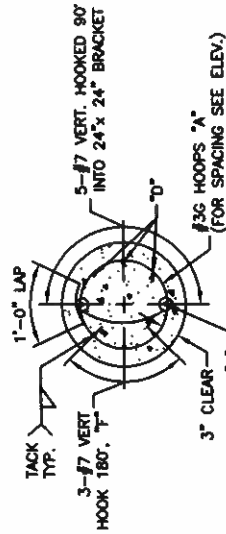
- Overall height: 2'-6"
- Top section height: 1'-5"
- Section A-A is indicated at the base of the pedestal.
- Labels:
  - METER BY COMED
  - MILBANK 4 TERMINAL METER PEDESTAL
  - ALL FITTINGS WITH GROUNDING BUSHINGS
  - MECHANICAL CONNECTION FOR NO.8 GROUND WIRE FROM GROUND ROD TO GROUND BUS
  - STAINLESS STEEL NAMEPLATE
  - ALL BRASS CORBIN LOCK #1548-1 OR EQUAL
  - STAINLESS STEEL CABINET

**Side View (Right):**

- Overall width: 2'-0"
- Base width: 4'-0"
- Labels:
  - VENTED ROOF OVERHANG
  - MILBANK AND TERMINAL METER PEDESTAL
  - 1 1/2" EXPANSION JOINT
  - 2%
  - 4" SAND CUSHION
  - 5" P.C. CONCRETE REINFORCED PAD - 2% SLOPE AWAY FROM CABINET
  - (4) 1/2" ANCHOR BOLTS
  - 24" LONG WITH 2" HOOK AT BOTTOM
  - 2.5" GSC CONDUIT TO COMED PEDESTAL
  - (3) 3-1/2" RACEWAY (PVC)

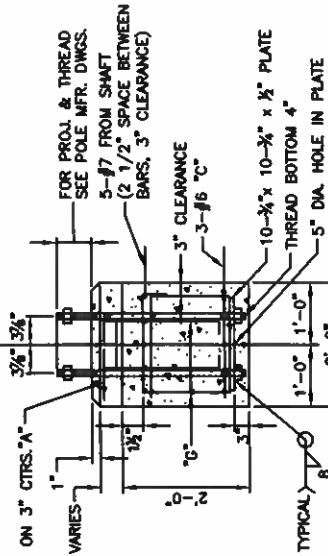
The logo for the Village of Tinley Park, Illinois, is located in the bottom right corner. It features a stylized graphic of a house or building with a chimney, followed by the text "Village of" in a small, sans-serif font, and "Tinley Park" in a large, bold, serif font. Below "Tinley Park" is the word "ILLINOIS" in a smaller, all-caps, sans-serif font.

# TYPICAL LIGHT POLE OFFSET FOUNDATION



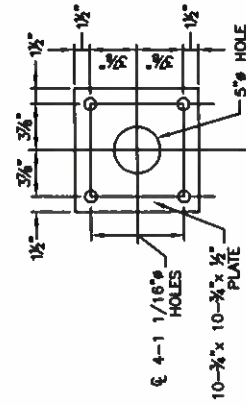
SECTION A-A

4-1" ANCHOR BOLTS\*\*  
ASTM A688 GALVANIZED  
ENTIRE LENGTH  
ASTM A153  
8 N.C. FOR 6"

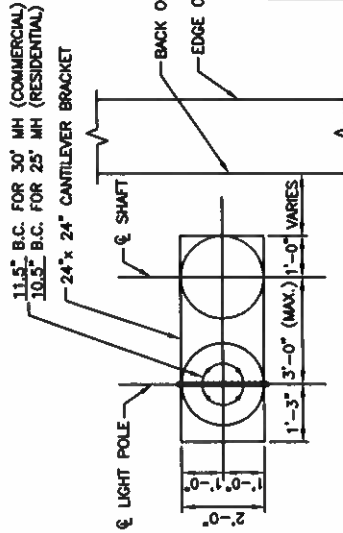


SECTION B-B

NOTE:  
THE TOP OF THE ANCHOR BOLTS SHOULD NOT PROJECT MORE THAN 4" ABOVE A 60° CHORD ALIGNED RADially TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.

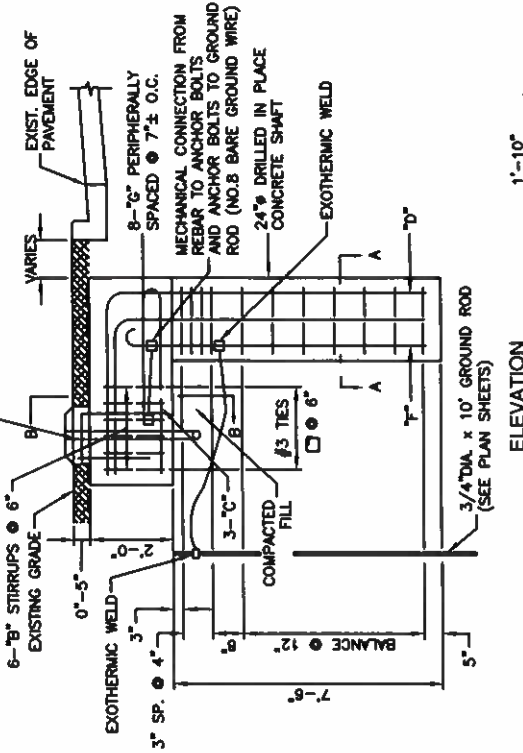


ANCHOR BOLT PLATE



PLAN - CANTILEVERED BRACKET

3 1/2" RACEWAY (2 REQ'D.)



ELEVATION

BILL OF MATERIALS				
QUAL.	MARK	SIZE	LENGTH	SHAPE
11	A	NO. 3	5'-9"	○
6	B	NO. 3	6'-6"	□
3	C	NO. 6	5'-38"	□
8	D	NO. 6	2'-1"	□
3	D	NO. 7	13'-6"	□
2	E	NO. 7	12'-0"	□
3	F	NO. 7	8'-11"	□
REINFORCING BARS				
			LIBS.	285
CLASS X CONCRETE			CU. YDS.	1.7
ANCHOR BOLTS			NO.	4
ANCHOR BOLT PLATE			NO.	1

- CONCRETE SHALL BE 3500 PSI AT 14 DAYS. (CLASS S).
- REINFORCING BARS SHALL BE OF NEW BILLET STEEL (ASTM A615) HAVING  $F_y = 60,000$  PSI AND DEFORMED (ASTM A307).
- HOLE FOR THE FOUNDATION (SHAFT) SHALL BE AUGURED.
- POLE FOUNDATION, OFFSET FOR THIS APPLICATION IS EQUIVALENT TO 13.5 LIN. FT. PER FOUNDATION.







# Interoffice Memo

**Date:** August 8, 2022  
**To:** Pat Carr – Village Manager  
Hannah Lipman – Asst. Village Manager  
John Urbanski, Public Works Director  
**From:** Arlan Schattke, PE – Village Engineer  
**Subject:** Contract Award – 2022 Municipal Parking Lot Improvements

Prepared for the Committee of the Whole and Village Board Meeting for consideration and possible action.

Description: This work consists of removal and replacement of hot-mix asphalt surface course, various pavement patches, concrete curb and gutter removal and replacement, concrete driveway removal and replacement, concrete sidewalk removal and replacement, pavement markings, and all incidental and collateral work necessary. The 2022 Improvement locations are the 80<sup>th</sup> Ave Metra Station Lot (North of Timber Dr, West Half), Municipal Lot behind 17200 Oak Park Ave, Fire Station #49, Police Station, Public Works Facility, and Fire Station #46.

Seven (7) bids were received and publicly read on August 8, 2022. The Village Clerk, Assistant Public Works Director, Village Engineer, Engineering Project Manager and Various Contractor Representatives were present at the bid opening. The bid results are below and the bid tabulation is attached. The lowest, responsible bidder is McGill Construction in the amount of \$382,978.57.

<u>Contractor</u>	<u>Location</u>	<u>Base Bid Total</u>
McGill Construction LLC	Frankfort, IL	\$382,978.57
Gallagher Asphalt	Thornton, IL	\$486,568.32
D Construction	Coal City, IL	\$494,767.02
Matthew Paving	Cicero, IL	\$535,133.41
Abbey Paving	Aurora, IL	\$556,067.70
Austin Tyler Construction	Elwood, IL	\$575,815.75
Iroquois Paving	Watseka, IL	\$621,806.17
<b>Engineer's Estimate</b>		<b>\$483,482.30</b>

Staff has reviewed and verified the bids and recommends award of the project to the lowest responsible, qualified bidder, McGill Construction. McGill Construction completed similar projects in the past, employs union workers, and met the bid proposal requirements. McGill Construction has completed the Village's Municipal Parking Lot Improvement project last year with satisfactory work.

Budget / Finance: Funding is budgeted for in the FY23 Capital Program.

Budget Available:	\$675,000.00	
Lowest Responsible Bidder:	\$382,978.57	
Contingency Amount (≈15%):	<u>\$55,000.00</u>	
Difference:	\$237,021.43	Under Budget

Staff Direction Request:

1. Approve low bid and award the project to McGill Construction LLC in the amount of \$437,978.57.
2. Direct Staff as necessary.

Attachment:

1. Bid Tab dated August 8, 2022.





2022 Municipal Parking Lot Improvements  
Owner: Village of Tinley Park  
Solicitor: Tinley Park IL, Village of  
8/8/2022 10:00 AM CDT



LOW BID

				Engineer Estimate		McGill Construction		Gallagher Asphalt		D Construction		Matthew Paving		Abbey Paving		Austin Tyler Construction		Iroquois Paving	
Line Item	Item Description	UofM	Quantity	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
1	Earth Excavation	Cu Yd	55.0	\$ 100.00	\$5,500.00	\$35.00	\$1,925.00	\$ 75.00	\$4,125.00	\$ 200.00	\$11,000.00	\$ 100.00	\$5,500.00	\$ 115.00	\$6,325.00	\$ 78.00	\$4,290.00	\$ 105.00	\$5,775.00
2	Inlet Filters	Each	5.0	\$200.00	\$1,000.00	\$235.00	\$1,175.00	\$ 300.00	\$1,500.00	\$ 500.00	\$2,500.00	\$ 400.00	\$2,000.00	\$ 115.00	\$575.00	\$ 100.00	\$500.00	\$ 0.01	\$0.05
3	Aggregate Base Course, Type B, 4"	Sq Yd	219.0	\$30.00	\$6,570.00	\$8.50	\$1,861.50	\$ 5.00	\$1,095.00	\$ 25.00	\$5,475.00	\$ 6.00	\$1,314.00	\$ 8.50	\$1,861.50	\$ 31.00	\$6,789.00	\$ 8.50	\$1,861.50
4	Hot-Mix Asphalt Surface Course, Mix "D", N50	Ton	2,323.0	\$105.00	\$243,915.00	\$86.10	\$200,010.30	\$ 107.50	\$249,722.50	\$ 101.00	\$234,623.00	\$ 118.60	\$275,507.80	\$ 113.65	\$264,008.95	\$ 114.00	\$264,822.00	\$ 120.00	\$278,760.00
5	Bituminous Materials (Tack Coat)	Pound	14,002.0	\$0.10	\$1,400.20	\$0.01	\$140.02	\$ 0.01	\$140.02	\$ 0.01	\$140.02	\$ 0.01	\$140.02	\$ 0.10	\$1,400.20	\$ 0.75	\$10,501.50	\$ 0.01	\$140.02
6	Portland Cement Concrete Driveway Pavement, 8 Inch	Sq Yd	581.0	\$90.00	\$52,290.00	\$79.50	\$46,189.50	\$ 90.00	\$52,290.00	\$ 110.00	\$63,910.00	\$ 130.00	\$75,530.00	\$ 131.00	\$76,111.00	\$ 115.00	\$66,815.00	\$ 135.00	\$78,435.00
7	Portland Cement Concrete Sidewalk, 5 Inch	Sq Ft	1,165.0	\$15.00	\$17,475.00	\$7.00	\$8,155.00	\$ 9.50	\$11,067.50	\$ 10.00	\$11,650.00	\$ 10.00	\$11,650.00	\$ 17.00	\$19,805.00	\$ 11.00	\$12,815.00	\$ 14.80	\$17,242.00
8	Hot-Mix Asphalt Surface Removal	Sq Yd	20,740.0	\$3.75	\$77,775.00	\$3.65	\$75,701.00	\$ 3.25	\$67,405.00	\$ 3.50	\$72,590.00	\$ 4.25	\$88,145.00	\$ 5.05	\$104,737.00	\$ 6.00	\$124,440.00	\$ 4.55	\$94,367.00
9	Driveway Pavement Removal	Sq Yd	473.0	\$20.00	\$9,460.00	\$10.00	\$4,730.00	\$ 30.00	\$14,190.00	\$ 20.00	\$9,460.00	\$ 20.00	\$9,460.00	\$ 21.50	\$10,169.50	\$ 18.50	\$8,750.50	\$ 16.00	\$7,568.00
10	Sidewalk Removal	Sq Ft	1,130.0	\$10.00	\$11,300.00	\$1.00	\$1,130.00	\$ 4.00	\$4,520.00	\$ 5.00	\$5,650.00	\$ 2.25	\$2,542.50	\$ 2.00	\$2,260.00	\$ 3.40	\$3,842.00	\$ 5.25	\$5,932.50
11	Class D Patches, 2 Inch	Sq Yd	415.0	\$25.00	\$10,375.00	\$11.25	\$4,668.75	\$ 30.00	\$12,450.00	\$ 30.00	\$12,450.00	\$ 23.00	\$9,545.00	\$ 19.50	\$8,092.50	\$ 37.00	\$15,355.00	\$ 55.00	\$22,825.00
12	Class D Patches, 6 Inch	Sq Yd	9.0	\$80.00	\$720.00	\$36.00	\$324.00	\$ 200.00	\$1,800.00	\$ 300.00	\$2,700.00	\$ 140.00	\$1,260.00	\$ 115.00	\$1,035.00	\$ 111.00	\$999.00	\$ 250.00	\$2,250.00
13	Sanitary Manholes to be Adjusted	Each	5.0	\$800.00	\$4,000.00	\$1,200.00	\$6,000.00	\$ 700.00	\$3,500.00	\$ 1,500.00	\$7,500.00	\$ 750.00	\$3,750.00	\$ 550.00	\$2,750.00	\$ 1,103.00	\$5,515.00	\$ 1,025.00	\$5,125.00
14	Frames and Lids to be Adjusted (Special)	Each	5.0	\$500.00	\$2,500.00	\$1,200.00	\$6,000.00	\$ 525.00	\$2,625.00	\$ 100.00	\$500.00	\$ 750.00	\$3,750.00	\$ 550.00	\$2,750.00	\$ 1,240.00	\$6,200.00	\$ 415.00	\$2,075.00
15	Combination Concrete Curb and Gutter Removal and Replacement	Foot	356.0	\$50.00	\$17,800.00	\$35.00	\$12,460.00	\$ 95.00	\$33,820.00	\$ 60.00	\$21,360.00	\$ 55.00	\$19,580.00	\$ 67.60	\$24,065.60	\$ 54.00	\$19,224.00	\$ 205.00	\$72,980.00
16	Modified Urethane Pavement Marking - L&S	Sq Ft	58.0	\$8.00	\$464.00	\$30.00	\$1,740.00	\$ 7.50	\$435.00	\$ 8.00	\$464.00	\$ 7.30	\$423.40	\$ 8.05	\$466.90	\$ 7.00	\$406.00	\$ 7.35	\$426.30
17	Modified Urethane Pavement Marking - Line 4"	Foot	16,829.0	\$0.90	\$15,146.10	\$0.50	\$8,414.50	\$ 1.20	\$20,194.80	\$ 1.30	\$21,877.70	\$ 1.16	\$19,521.64	\$ 1.35	\$22,719.15	\$ 1.00	\$16,829.00	\$ 1.20	\$20,194.80
18	Modified Urethane Pavement Marking - Line 6"	Foot	913.0	\$2.00	\$1,826.00	\$1.00	\$913.00	\$ 2.00	\$1,826.00	\$ 2.10	\$1,917.30	\$ 1.85	\$1,689.05	\$ 1.95	\$1,780.35	\$ 1.75	\$1,597.75	\$ 1.85	\$1,689.05
19	Modified Urethane Pavement Marking - Line 12"	Foot	52.0	\$3.50	\$182.00	\$2.00	\$104.00	\$ 3.75	\$195.00	\$ 4.00	\$208.00	\$ 4.00	\$208.00	\$ 4.05	\$210.60	\$ 3.50	\$182.00	\$ 3.65	\$189.80
20	Modified Urethane Pavement Marking - Line 24"	Foot	149.0	\$6.00	\$894.00	\$3.00	\$447.00	\$ 7.50	\$1,117.50	\$ 8.00	\$1,192.00	\$ 8.00	\$1,192.00	\$ 8.05	\$1,199.45	\$ 7.00	\$1,043.00	\$ 7.35	\$1,095.15
21	Remove and Reinstall Existing Parking Blocks	Each	25.0	\$100.00	\$2,500.00	\$20.00	\$500.00	\$ 50.00	\$1,250.00	\$ 200.00	\$5,000.00	\$ 45.00	\$1,125.00	\$ 90.00	\$2,250.00	\$ 170.00	\$4,250.00	\$ 50.00	\$1,250.00
22	Parkway Restoration	Sq Yd	13.0	\$30.00	\$390.00	\$30.00	\$390.00	\$ 100.00	\$1,300.00	\$ 200.00	\$2,600.00	\$ 100.00	\$1,300.00	\$ 115.00	\$1,495.00	\$ 50.00	\$650.00	\$ 125.00	\$1,625.00
As Read Total:						\$384,238.27		\$486,568.32		\$494,767.02		\$535,133.41		\$556,067.70		\$575,815.75		\$621,806.17	
Corrected Total:					\$483,482.30	\$382,978.57		\$486,568.32		\$494,767.02		\$535,133.41		\$556,067.70		\$575,815.75		\$621,806.17	



# Interoffice Memo

Date: August 10, 2022

To: Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager

From: Terry Lusby, Jr., Facilities & Fleet Superintendent

Subject: Roof Replacement Project - Public Works Garage (rear East half)

Presented at the Committee of the Whole and Village Board meetings for consideration and possible action.

**Description:**

Public Works requests consideration and possible action by the Village Board to award the bid and contract work as set forth in the bid documents established by Public Works and Industrial Roofing Services Inc.

**Background:**

This construction contract was advertised in accordance with state bidding laws and six (6) Bids were received and read publicly on Wednesday, July 20<sup>th</sup>, 2022, at 10:01AM by the Deputy Clerk with the Facilities Superintendent and Industrial Roofing Services present and received as follows:

Contractor	As Read & Calculated Bid
Riddiford Roofing Co., Arlington Heights, IL	\$ 193,050
Adler Roofing Inc, Joliet, IL	\$ 229,940
DCG Roofing Solutions Inc, Melrose Park, IL	\$ 245,650
L Marshall Roofing, Glenview, IL	\$ 256,000
Knickerbocker Roofing, Harvey, IL	\$ 275,500
Tori Construction Inc, Alsip, IL	\$ 422,647

**Budget / Finance:**

Funding is available in the approved FY23 Capital Projects Budget:

Budget Available	\$ 180,000
Lowest Responsible Bidder	<u>\$ 193,050</u>
Difference (Over Budget)	\$ 13,050

Collected bids came in higher than expected due to surges in material pricing because of the COVID-19 pandemic ramifications. However, our lowest bidder for the Fire Station #48 Roof Replacement project came in under budget by \$52,100, management recommend we utilize some of those funds towards the Public Works Garage Roof Replacement Project shortage.

**Staff Direction Request:**

1. Approve service contract with Riddiford Roofing Co., of Arlington Heights, IL for the Public Works Garage Roof Replacement Project as estimated in the amount of \$193,050.
2. Direct staff as necessary.

**Attachment:**

1. Industrial Roofing Services concurring letter of recommendation.
2. Tabulation of bids spreadsheet.
3. Satellite view with highlighted roof area.

July 29, 2022

Mr. Terry Lusby, Jr.  
Village of Tinley Park  
7980 W 183rd Street  
Tinley Park, IL 60477

SUBJECT: Public Works Garage Roof Replacement  
7980 W 183rd Street  
Tinley Park, IL  
IRS Job No. 17978

Dear Mr. Lusby, Jr.:

Bids for the above referenced project were opened on July 20, 2022. Six (6) contractors submitted bids. Total Base Bids, including the \$20,000.00 in Allowances, ranged from \$193,050.00 to \$422,647.00.

It is recommended that you accept the low Total Base Bid from G.E. Riddiford Company, Inc., in the amount of \$193,050.00.

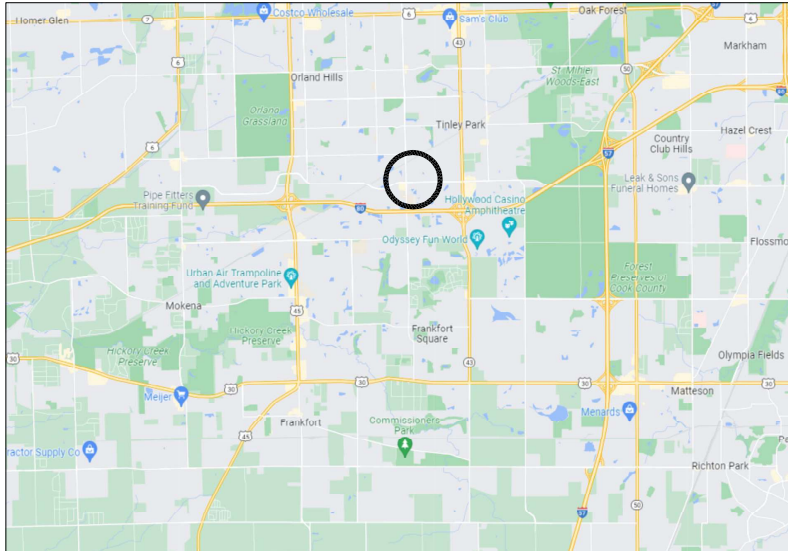
If you should have any questions regarding the above, please feel free to contact me.

Sincerely yours,  
INDUSTRIAL ROOFING SERVICES, INC.

*Dave Angove*

Dave Angove  
Project Manager





**PROJECT:**

PUBLIC WORKS GARAGE -  
ROOF AREA 2 REPLACEMENT  
7980 W 183RD STREET  
TINLEY PARK, IL 60477

**OWNER:**

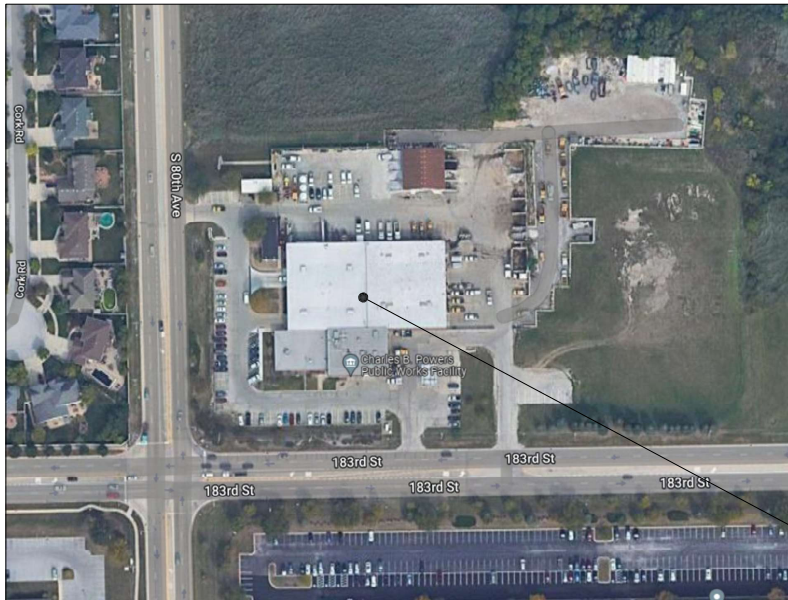
VILLAGE OF TINLEY PARK  
16250 SOUTH OAK PARK AVENUE  
TINLEY PARK, IL 60477

**CONSULTANT:**

INDUSTRIAL ROOFING SERVICES  
13000 WEST SILVER SPRING DRIVE  
BUTLER, WISCONSIN 53007  
(262) 432-0500

**IRS JOB #:**

17978



**SHEET INDEX**

- A0 - COVER SHEET
- A4.0 - ROOF REPLACEMENT SPECIFICATION
- A4.1 - ROOF DETAIL REFERENCE SHEET
- A5.0 - MEMBRANE DETAILS 1-4
- A5.1 - MEMBRANE DETAILS 5-8
- A5.2 - MEMBRANE DETAILS 9-11
- A6.0 - PERIMETER DETAILS 1-3
- A7.0 - DRAINAGE DETAILS 1
- A8.0 - PENETRATION DETAILS 1-4
- A8.1 - PENETRATION DETAILS 5
- A9.0 - SHEET METAL DETAILS 1-4
- A9.1 - SHEET METAL DETAILS 5

7980 W 183RD ST, TINLEY PARK, IL



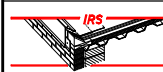
CONSULTANT DOES NOT  
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OF THE EXISTING  
CONDITIONS SHOWN ON  
THIS DRAWING. USER  
SHALL FIELD VERIFY  
EXISTING CONDITIONS  
PRIOR TO ANY WORK  
RELATED TO THIS BUILDING.

PROJECT NAME: VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST, TINLEY PARK, IL  
TITLE: COVER SHEET

DRAWN BY: CAP  
DATE: 6/24/2022  
IRS SPEC NO.: 17978  
SCALE: N.T.S.  
DRAWING NO.: A0

NOTES: DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING AND INSTALLING PRODUCTS.





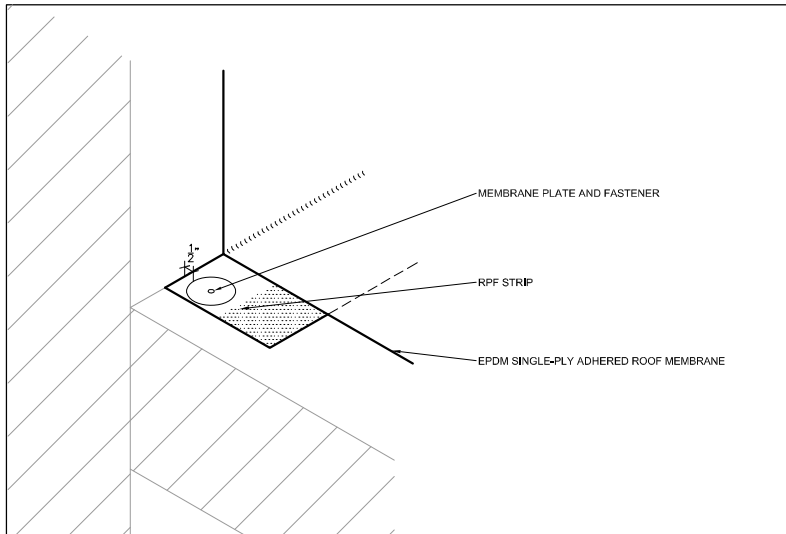
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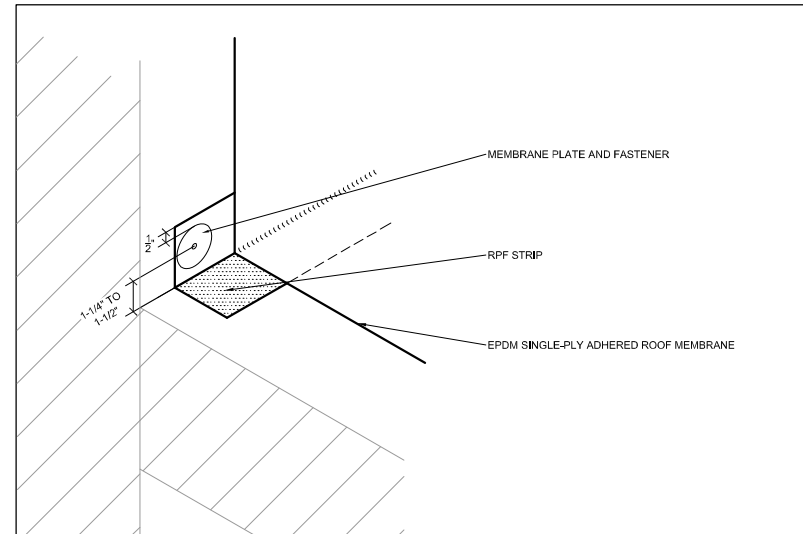
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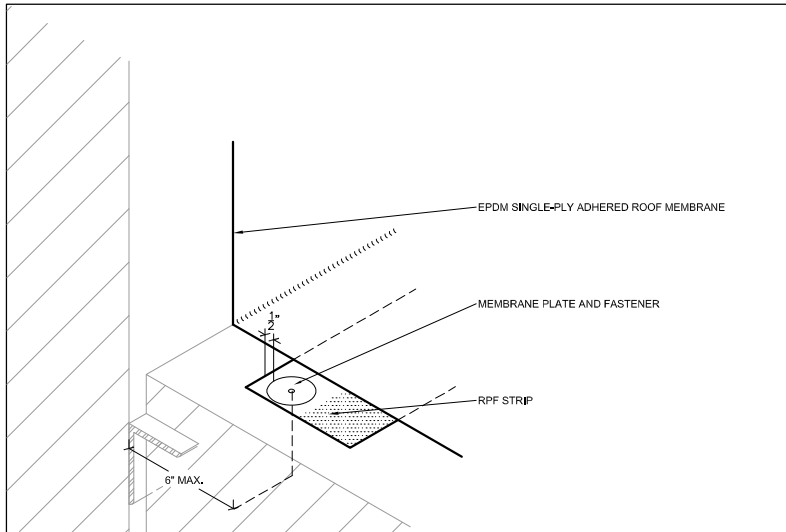
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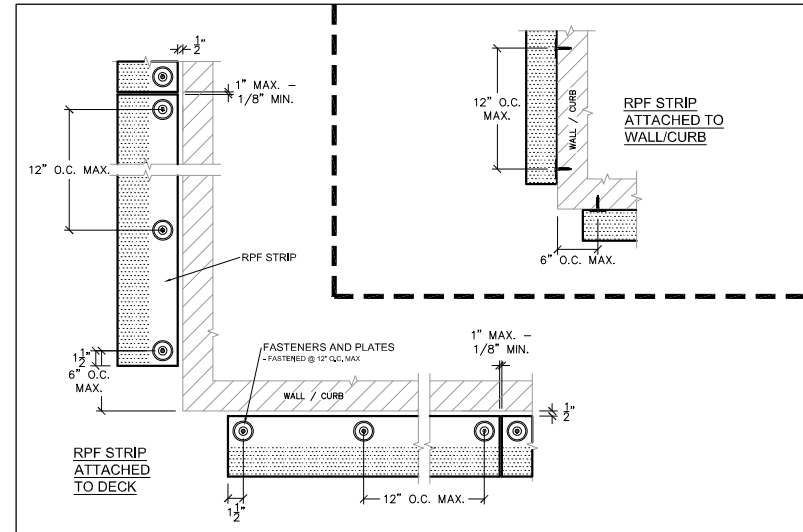
**M-1: BASE TIE-IN WITH RPF AND 2" METAL PLATES FASTENED TO DECK**  
NOT TO SCALE



**M-2: BASE TIE-IN WITH RPF AND 2" METAL PLATES FASTENED TO WALL OR CURB**  
NOT TO SCALE

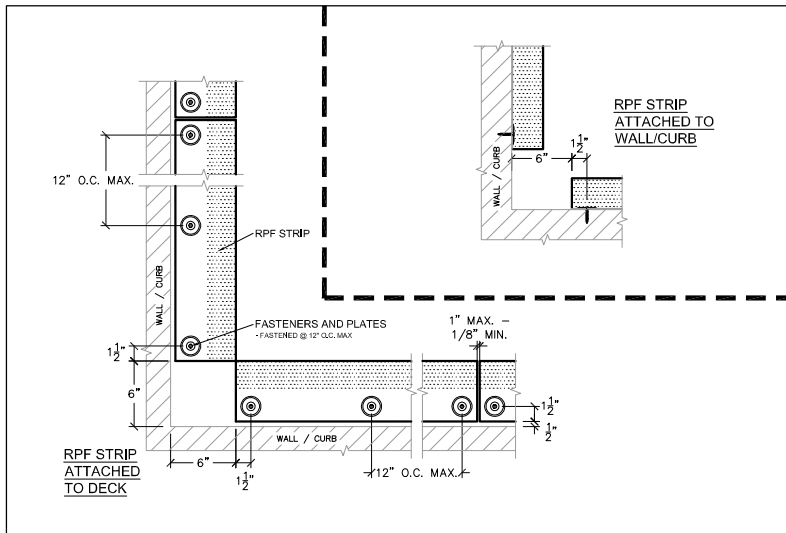


**M-3: BASE TIE-IN WITH RPF AND 2" METAL PLATES WITH DECK OBSTRUCTION**  
NOT TO SCALE

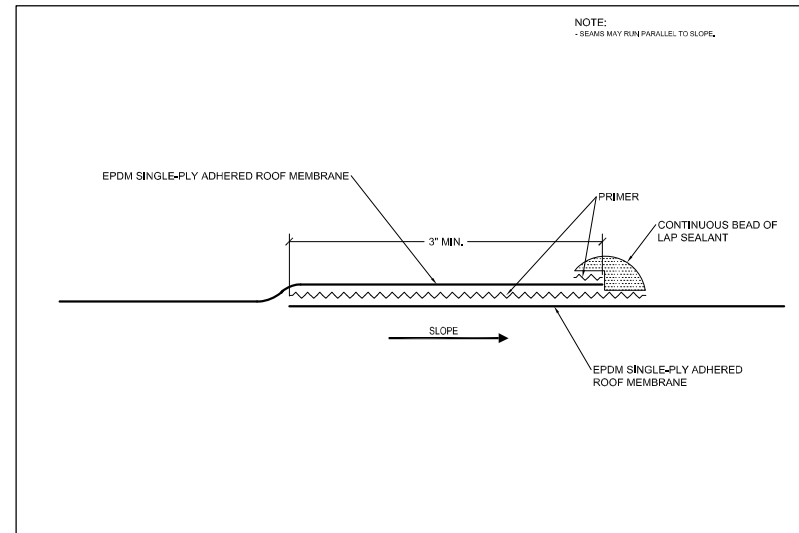


**M-4: RPF STRIP LAYOUT AT OUTSIDE CORNER**  
NOT TO SCALE

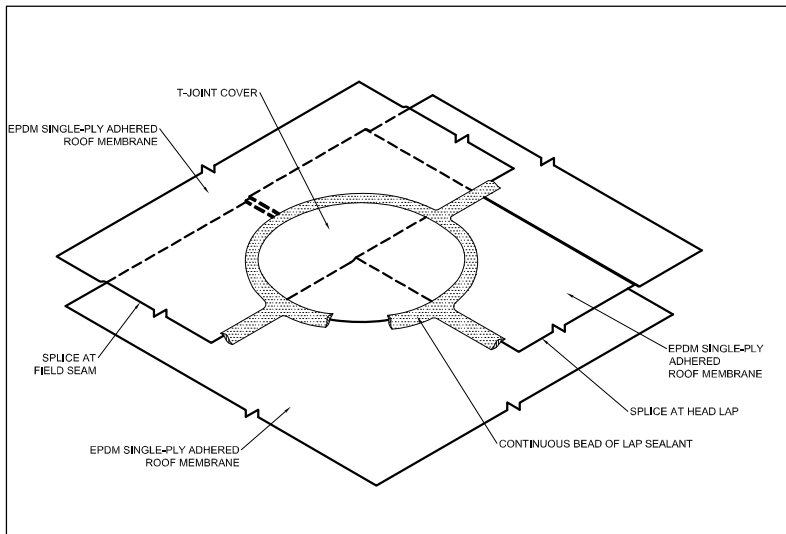




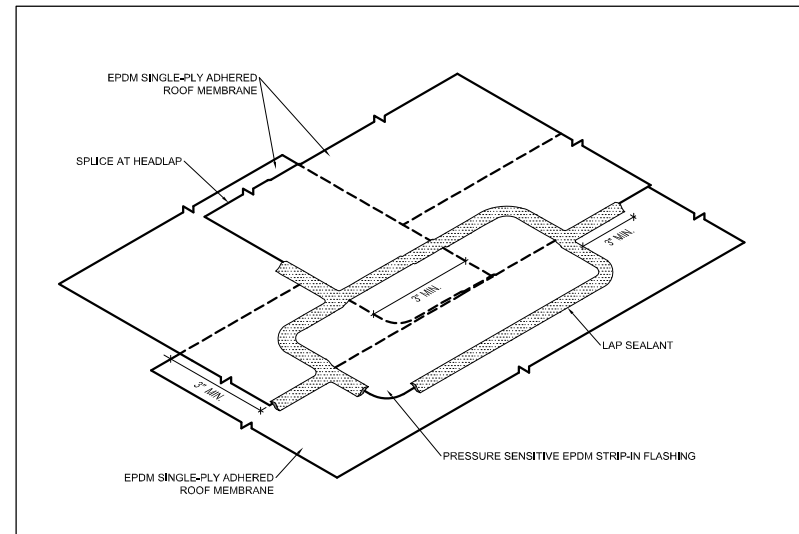
**M-5: RPF STRIP LAYOUT AT INSIDE CORNER**  
NOT TO SCALE



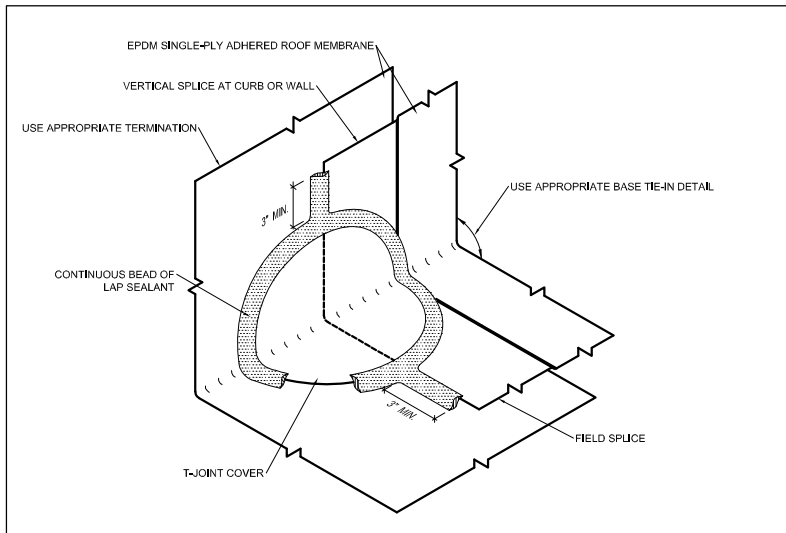
**M-6: LAP SPLICE**  
NOT TO SCALE



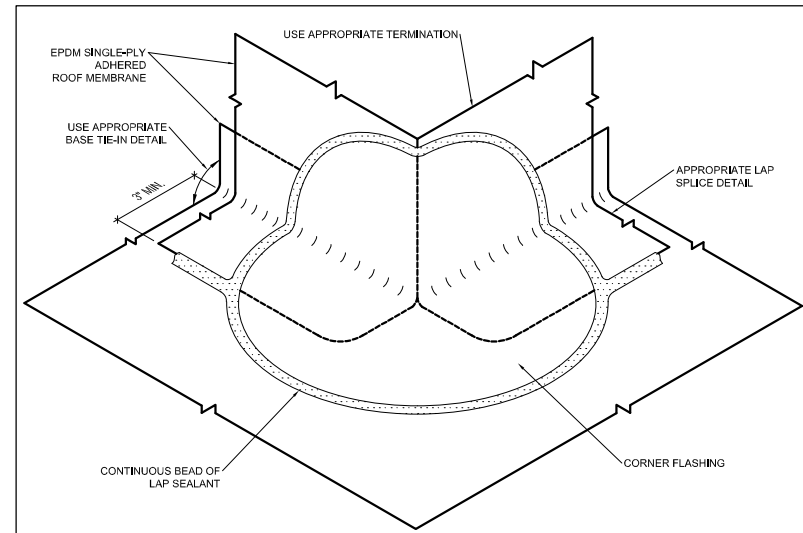
**M-7: T-JOINT COVER AT HEADLAP UNDER FIELD SEAM**  
NOT TO SCALE



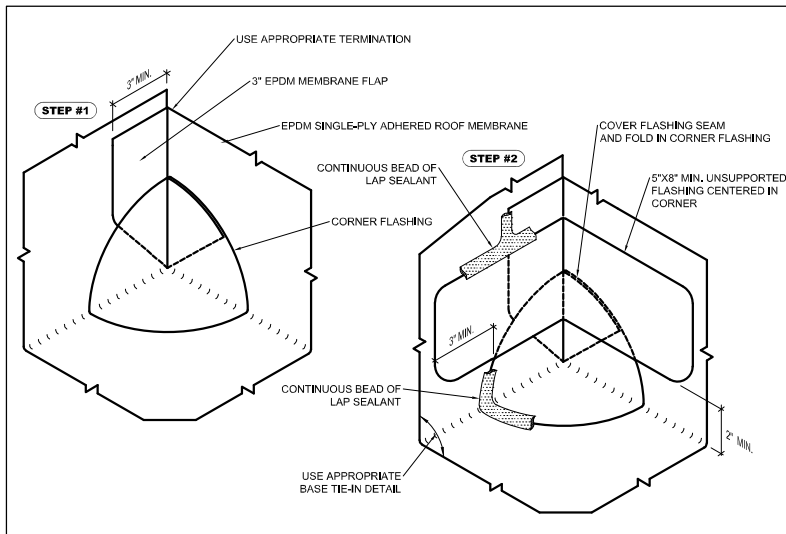
**M-8: T-JOINT COVER AT HEADLAP OVER FIELD SEAM**  
NOT TO SCALE



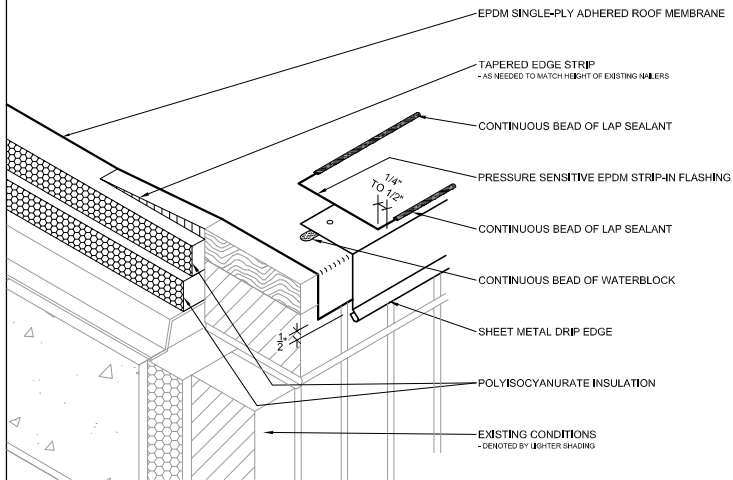
**M-9: COVER JOINT AT BASE TIE-IN LAP SPICE**  
NOT TO SCALE



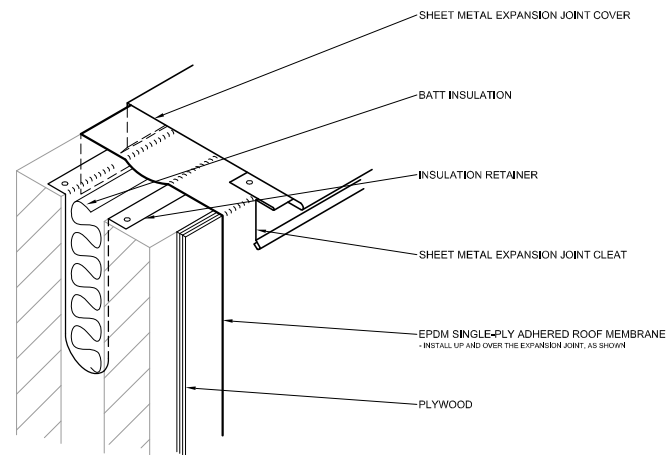
**M-10: OUTSIDE CORNER**  
NOT TO SCALE



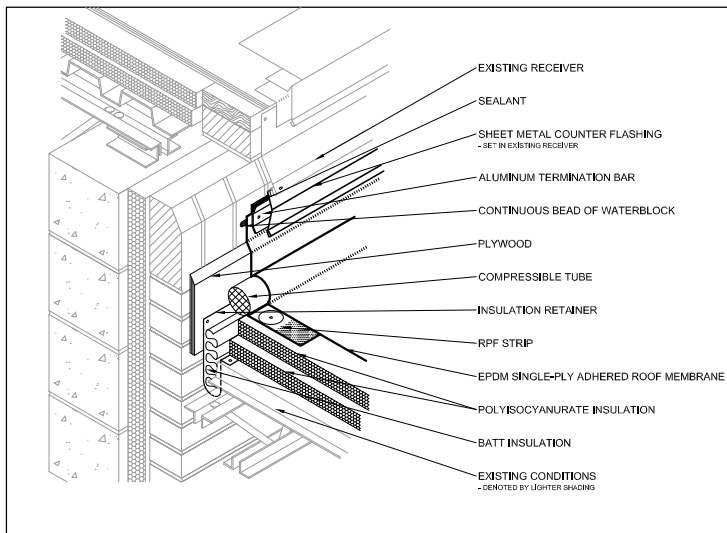
**M-11: INSIDE CORNER**  
NOT TO SCALE



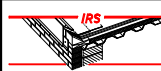
**P-1: ROOF EDGE WITH METAL**  
NOT TO SCALE



**P-2: RAISED ROOF-TO-ROOF EXPANSION JOINT**  
NOT TO SCALE



**P-3: ROOF AREA 1 TO ROOF AREA 2 EXPANSION JOINT**  
NOT TO SCALE



**INDUSTRIAL ROOFING SERVICES, INC.**  
13000 WEST SILVER SPRING DRIVE • BUTLER, WI 53007  
PHONE: (800) 236-3477 / (262) 432-4500 FAX: (262) 432-4504

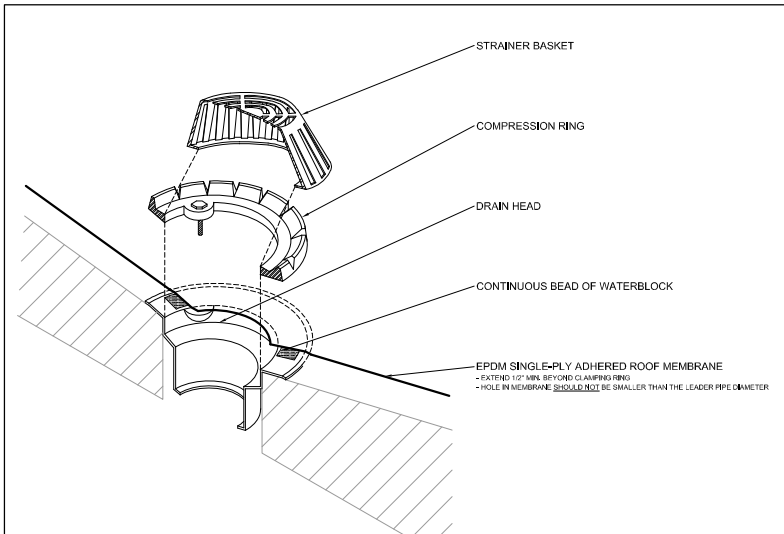
CONSULTANT DOES NOT  
WARRANTY THE ACCURACY  
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PRIOR TO ANY WORK  
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PROJECT NAME: VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST, TINLEY PARK, IL  
TITLE: PERIMETER DETAILS

DRAWN BY: DATE: CAP 6/24/2022  
SCALE: N.T.S.

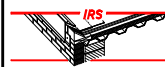
IRS SPEC NO.: 17978  
DRAWING NO.: A6.0

NOTES:



**D-1: ROOF DRAIN**

NOT TO SCALE



**INDUSTRIAL ROOFING SERVICES, INC.**  
13000 WEST SILVER SPRING DRIVE • BUTLER, WI 53007  
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**PROJECT NAME:**  
VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST., TINLEY PARK, IL

**TITLE:**  
DRAINAGE DETAILS

**DRAWN BY:**  
CAP

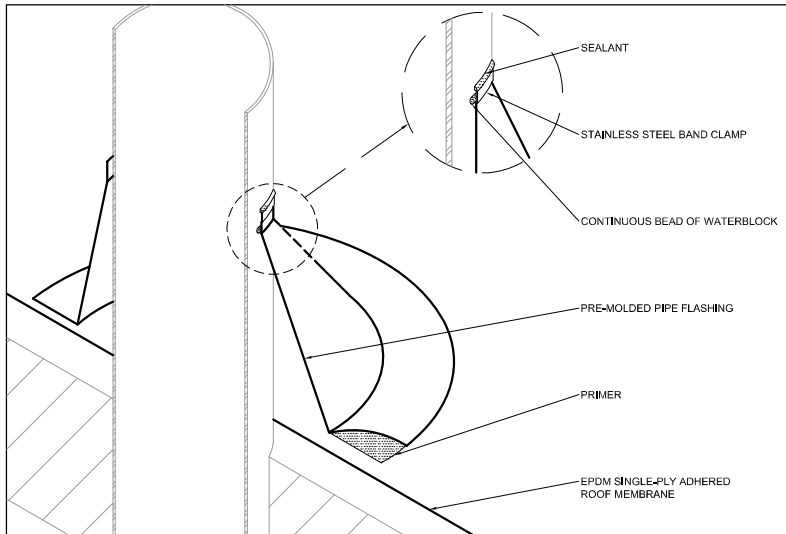
**DATE:**  
6/24/2022

**IRS SPEC NO.:**  
17978

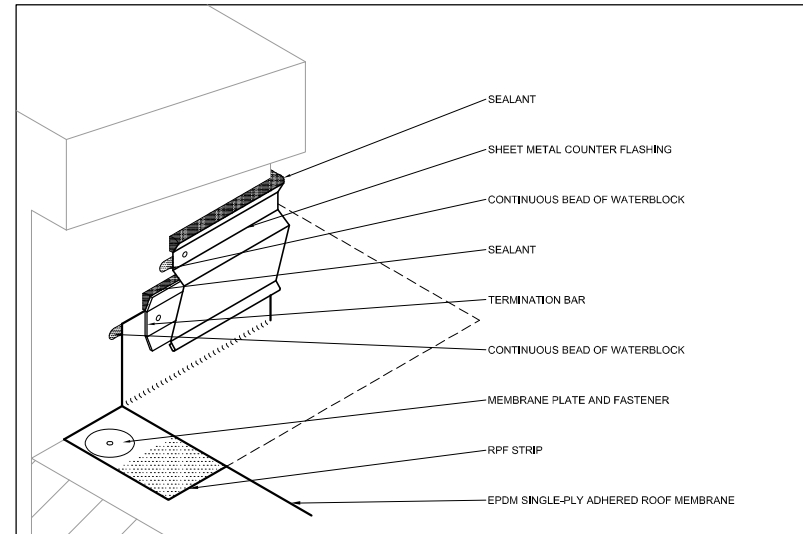
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N.T.S.

**DRAWING NO.:**  
A7.0

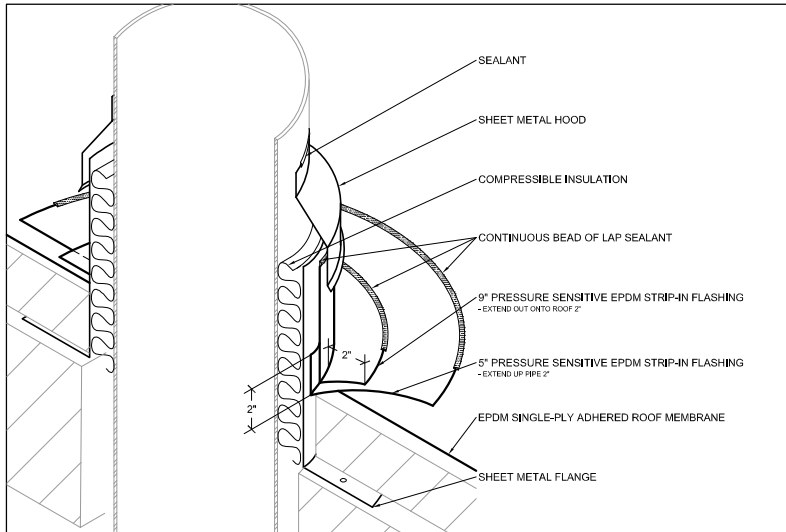
**NOTES:**



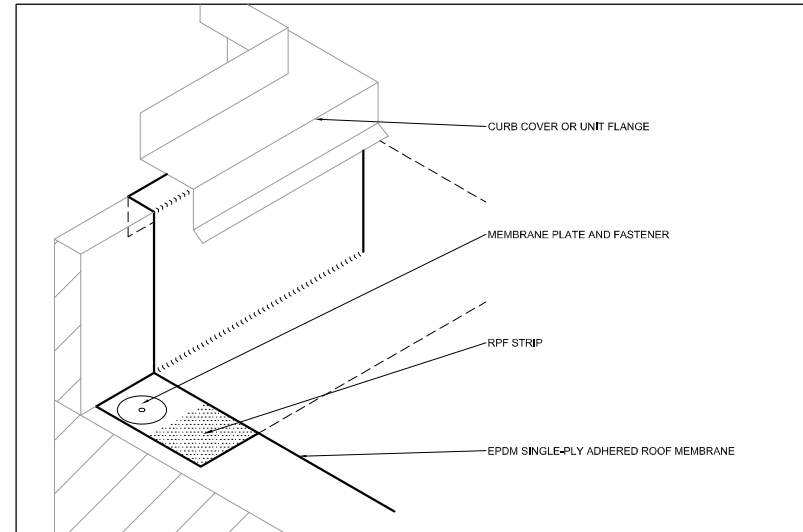
**PN-1: ROUND PIPE PENETRATION WITH PIPE BOOT**  
NOT TO SCALE



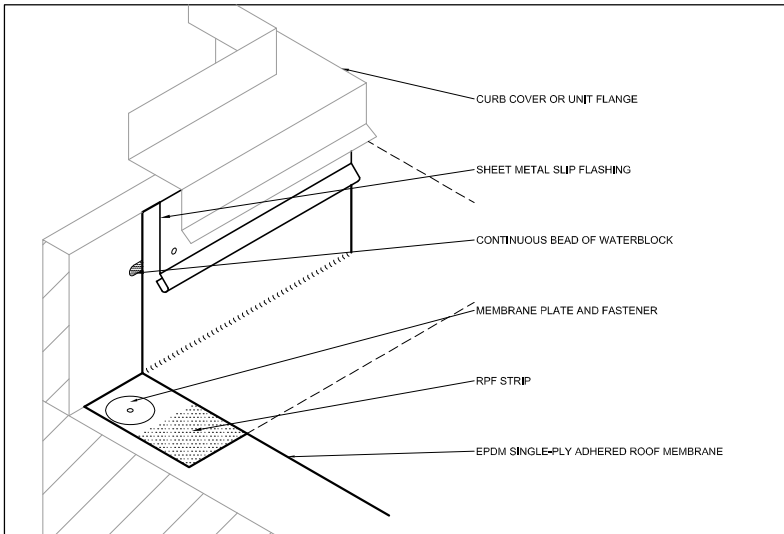
**PN-2: SMOKE HATCH**  
NOT TO SCALE



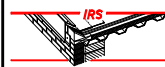
**PN-3: HOT STACK FIELD WRAPPED**  
NOT TO SCALE



**PN-4: CURB WITH EPDM WRAPPED UP AND OVER**  
NOT TO SCALE



**PN-5: CURB WITH SLIP FLASHING**  
NOT TO SCALE



**INDUSTRIAL ROOFING SERVICES, INC.**  
13000 WEST SILVER SPRING DRIVE • BUTLER, WI 53007  
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**PROJECT NAME:**  
VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST, TINLEY PARK, IL

**TITLE:**  
PENETRATION DETAILS

**DRAWN BY:**  
CAP

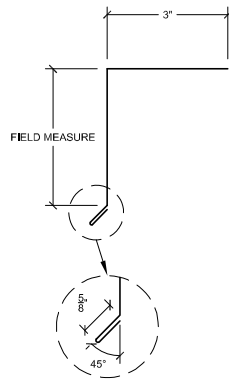
**DATE:**  
6/24/2022

**IRS SPEC NO.:**  
17978

**SCALE:**  
N.T.S.

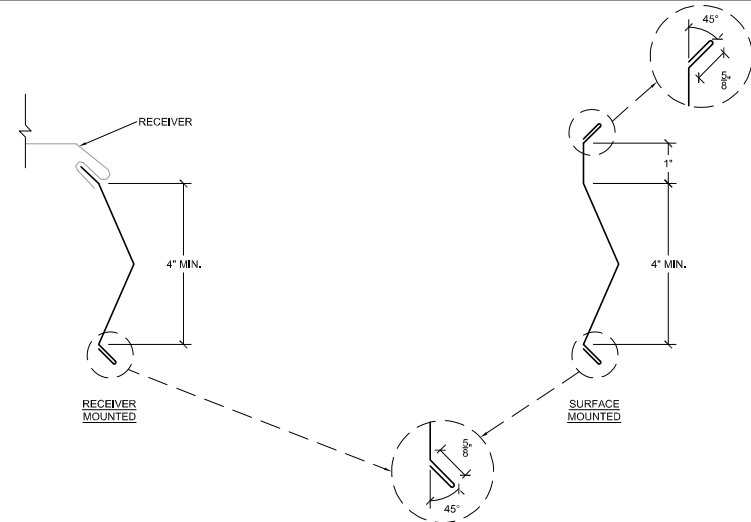
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A8.1

**NOTES:**



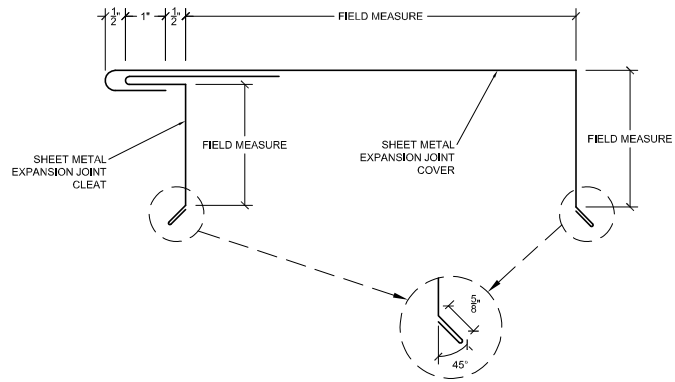
**SM-1: DRIP EDGE PROFILE**

NOT TO SCALE



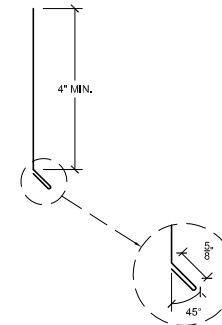
**SM-2: BENT COUNTER FLASHING PROFILE**

NOT TO SCALE



**SM-3: EXPANSION JOINT METAL PROFILE**

NOT TO SCALE



**SM-4: SLIP FLASHING PROFILE**

NOT TO SCALE



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PROJECT NAME: VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST, TINLEY PARK, IL  
TITLE: SHEET METAL DETAILS

DRAWN BY: CAP  
DATE: 6/24/2022  
IRS SPEC NO.: 17978  
SCALE: N.T.S.  
DRAWING NO.: A9.0

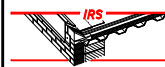
NOTES:

CAULKING CUP



SM-5: TERMINATION BAR

NOT TO SCALE



**INDUSTRIAL ROOFING SERVICES, INC.**  
13000 WEST SILVER SPRING DRIVE • BUTLER, WI 53007  
PHONE: (800) 236-3477 / (262) 432-4500 FAX: (262) 432-4504

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**PROJECT NAME:**  
VILLAGE OF TINLEY PARK  
PUBLIC WORKS GARAGE  
7980 W 183RD ST., TINLEY PARK, IL

**TITLE:**  
SHEET METAL DETAILS

**DRAWN BY:** CAP  
**DATE:** 6/24/2022  
**IRS SPEC NO.:** 17978

**SCALE:** N.T.S.  
**DRAWING NO.:** A9.1

**NOTES:**





# Interoffice Memo

**Date:** August 10, 2022

**To:** Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager

**From:** Terry Lusby, Jr., Facilities & Fleet Superintendent

**Subject:** Roof Replacement Project – Fire Station #48

Presented at the Committee of the Whole and Village Board meetings for consideration and possible action.

**Description:**

Public Works requests consideration and possible action by the Village Board to award the bid and contract work as set forth in the bid documents established by Public Works and Industrial Roofing Services Inc.

**Background:**

This construction contract was advertised in accordance with state bidding laws and seven (7) Bids were received and read publicly on Wednesday, July 20<sup>th</sup>, 2022, at 10:01AM by the Deputy Clerk with the Facilities Superintendent and Industrial Roofing Services present and received as follows:

Contractor	As Read & Calculated Bid
Tori Construction Inc, Alsip, IL	\$ 163,900
L Marshall Roofing, Glenview, IL	\$ 184,000
Adler Roofing Inc, Joliet, IL	\$ 185,350
Knickerbocker Roofing, Harvey, IL	\$ 194,900
J & F Chiattello Inc, Dyer, IN	\$ 197,023
DCG Roofing Solutions Inc, Melrose Park, IL	\$ 208,800
Riddiford Roofing Co, Arlington Heights, IL	\$ 222,900

**Budget / Finance:**

Funding is available in the approved FY23 Capital Projects Budget:

Budget Available	\$ 216,000
Lowest Responsible Bidder	<u>\$ 163,900</u>
Difference (Under Budget)	\$ 52,100

**Staff Direction Request:**

1. Approve service contract with Tori Construction, of Alsip, IL for the Public Works Roof Replacement Project as estimated in the amount of \$163,900.
2. Direct staff as necessary.

**Attachment:**

1. Industrial Roofing Services concurring letter of recommendation.
2. Tabulation of bids spreadsheet.

July 29, 2022

Mr. Terry Lusby, Jr.  
Village of Tinley Park  
7980 W 183rd Street  
Tinley Park, IL 60477

SUBJECT: Fire Station #48 Roof Replacement  
9191 W 175th Street  
Tinley Park, IL  
IRS Job No. 17989

Dear Mr. Lusby, Jr.:

Bids for the above referenced project were opened on July 20, 2022. Seven (7) contractors submitted bids. Total Base Bids, including the \$20,000.00 in Allowances, ranged from \$163,900.00 to \$222,900.00.

It is recommended that you accept the low Total Base Bid from Tori Construction, LLC, in the amount of \$163,900.00.

If you should have any questions regarding the above, please feel free to contact me.

Sincerely yours,  
INDUSTRIAL ROOFING SERVICES, INC.

*Dave Angove*

Dave Angove  
Project Manager





# Interoffice Memo

**Date:** August 10, 2022  
**To:** Pat Carr – Village Manager  
Hannah Lipman – Asst. Village Manager  
John Urbanski - Public Works Director  
**From:** Colby C. Zemaitis, PE, CFM – Assistant Public Works Director  
**Subject:** Streambank Stabilization Project – Final Payout Request and Change Order Summary

Prepared for the Committee of the Whole and Village Board Meeting for consideration and possible action.

Description: The Village received funding and entered into an IGA with the Metropolitan Water Reclamation District of Greater Chicago (MWRD) for streambank stabilization and maintenance of the Midlothian Creek back in the Spring of 2020.

The plans and specifications were prepared by MWRD and entailed streambank stabilization of the Midlothian Creek between 66<sup>th</sup> Court and Hickory Street and creekbank near Scott Court along with establishing and maintaining the vegetation to prevent future erosion and public safety issues.

The total project cost was \$984,000 with the District providing \$866,500 and the Village providing \$117,500. The overall project cost totaled \$1,084,595.00, which totaled \$100,595 (9.27%) in change orders. The change order breakdown is attached and the justification for the additional work is as follows:

- a. The concrete block wall design was prepared approximately two (2) years prior to construction. Between the time the design was prepared and the construction started, it became evident that approximately 44 feet of additional streambank was in need of repair to avoid future bank failures during or after the completion of the project.
- b. The soil borings collected during the design phase were in various locations along the creek bed. Once the creek bed, debris and other rocks and silt was removed during construction, it became apparent that the bedrock was an additional 6"-8" lower along the streambank where the concrete block wall was to be placed. With the additional depth in order to place the concrete blocks directly on the bedrock, an additional row of concrete blocks was required to be installed at the top of the wall in order to match or extend above the high water level (HWL) of the creek during heavy storms and prevent the creek flow from overtopping the block wall.
- c. The project required the existing Com Ed transformer to be raised and/or relocated. The original location of the transformer was directly over the top of the existing storm sewer pipe which drained the existing residential drainage swale up to Barbara Avenue. Due to the delay in Com Ed relocating the transformer, an additional structure, pipe and restoration was required to complete the drainage repairs for the project.

Due to legal fees, \$2,000.77 is being deducted from the final payment amount to Misfits.

Staff Direction Request:

1. Approve Change Request and Final Pay Request in the amount of \$253,154.23 to Misfits Construction Company.
2. Direct Staff as necessary.

Attachments:

1. Pay Request #6 (Final) Memo from Robinson Engineering
2. Final Waiver of Lien and Contractor's Affidavit
3. Final Billing Spreadsheet



Van Calombaris, PE  
Direct Line: (815) 412-2014  
Email: vcalombaris@reltd.com

July 27, 2022

Project 20-R0382

Village of Tinley Park  
16250 South Oak Park Avenue  
Tinley Park, Illinois 60477

Attn: Finance Department

RE: Streambank Stabilization Improvements  
6<sup>th</sup> Payout Request (Final)

Enclosed herewith please find invoice 1921004-06 dated December 31, 2021 and a final waiver of lien from Misfits Construction Company for work completed on the above referenced project. We have reviewed the work and find that, in our best judgment, it is in substantial compliance with the plans and specifications. The final waiver of lien has also been reviewed and has been found satisfactory. Certified payrolls received to date are also attached with the invoice.

We, therefore, recommend that Misfits Construction Company is entitled to payment of Two Hundred Fifty-Three Thousand, Seventy-Eight Dollars and No Cents as summarized below:

Total Earned to Date .....	\$1,084,595.00
Less Previous Payments .....	\$829,440.00
Less Amount Owed for Legal Fees.....	<u>\$2,077.00</u>
<b>Amount Due this Estimate #6 (Final) .....</b>	<b>\$253,078.00</b>

Respectfully yours,  
**ROBINSON ENGINEERING, LTD.**

Van Calombaris, PE  
Village Engineering Consultant

vc/ pc

R:\2020-2024\2020\20-R0382.TP\Payouts\PAYOUT 6 LETTER - Final.docx

xc: Misfits Construction Company via e-mail

**APPROVED BY:**

---

**Colby Zemaitis, PE, CFM, Village Engineer**

## FINAL WAIVER

STATE OF ILLINOIS       )  
COUNTY OF COOK       )

WHEREAS The undersigned has been employed by Village of Tinley Park  
to furnish streambank stabilization  
for the premises known as the Streambank Stabilization Project on Midlothian Creek  
of which the Village of Tinley Park is the owner.

The undersigned, for and in consideration of Two Hundred Fifty-Five Thousand One Hundred Fifty-Five and 00/100 Dollars  
(\$ 255,155.00) dollars,  
and other good and valuable considerations, the receipt whereof is hereby acknowledged, Do(es) hereby waive and release any and all  
lien or claim of, or right to, lien, under the statutes of the State of Illinois, relating to mechanics' liens, with respect to and on said  
above-described premises, and the improvements thereon, and on the material, fixtures, apparatus or machinery furnished, and on the  
moneys, funds or other considerations due or to become due from the owner, on account of labor services, material, fixtures, apparatus  
or machinery, furnished to this date, by the undersigned for the above-described premises.

Signed this 1<sup>st</sup> day of April, 2022

Signature: [Signature]  
Title: President  
Company: Misfits Construction Company

## CONTRACTOR'S AFFIDAVIT

STATE OF ILLINOIS       )  
COUNTY OF COOK       )

### TO WHOM IT MAY CONCERN:

The undersigned, being duly sworn, deposes and says that he is John Thomas, President  
of Misfits Construction Company  
who is the contractor for the Streambank Stabilization Project on Midlothian Creek  
work on the building located at the Village of Tinley Park  
owned by the Village of Tinley Park.

That the total amount of the contract including extras is \$1,084,595.00 which he has received payment of \$ 829,440.00 prior  
to this payment. That all waivers are true, correct and genuine and delivered unconditionally and that there is no claim either legal or  
equitable to defeat the validity of said waivers. That the following are the names of all parties who have furnished material or labor,  
or both, for said work and all parties having contracts or subcontracts for specific portions of said work or for material entering into  
the construction thereof and the amount due or to become due to each, and that the items mentioned include all labor and material  
required to complete said work according to plans and specification:

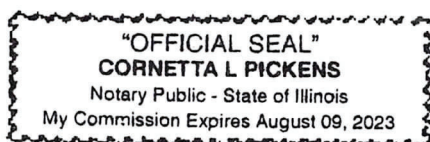
NAME	WHAT FOR	CONTRACT VALUE	AMOUNT PAID	THIS PAYMENT	BALANCE DUE
Misfits Construction Company	Installation	\$ 834,532.70	\$ 650,377.70	\$ 184,155.00	\$ 00.00
Commercial Material Solutions, LLC	Material Supplier	\$ 127,331.79	\$ 56,331.79	\$ 71,000.00	\$ 00.00
Steve's Equipment Services, Inc.	Equipment Rental	\$ 91,993.71	\$ 91,993.71	\$ 00.00	\$ 00.00
Stevenson Crane Service, Inc.	Equipment Rental	\$ 27,386.80	\$ 27,386.80	\$ 00.00	\$ 00.00
Spring Grove Nursery, Inc.	Material Supplier	\$ 3,350.00	\$ 3,350.00	\$ 00.00	\$ 00.00
TOTAL LABOR & MATERIAL:		\$ 1,084,595.00	\$ 829,440.00	\$ 255,155.00	\$ 00.00

That there are not contracts for said work outstanding, and that there is nothing due or to become due to any person for material, labor  
or other work of any kind done or to be upon or in connection with said work other than above stated.

Signed this 1<sup>st</sup> day of April, 2022

Signature: [Signature]  
Title: President  
Company: Misfits Construction Company

Subscribed and sworn to before me this 1<sup>st</sup> day of April, 2022



Notary Public: [Signature]



# FINAL WAIVER OF LIEN AND CONTRACTOR'S AFFIDAVIT

STATE OF ILLINOIS

SS

COUNTY OF Kendall

Escrow # \_\_\_\_\_

Guarantee # \_\_\_\_\_

TO WHOM IT MAY CONCERN:

WHEREAS the undersigned has been employed by Misfits Construction Company  
to furnish landscaping materials  
for the premises know as 2020-R-017 Streambank Stabilization Project  
of which Village of Tinley Park is the owner.

THE undersigned, for and in consideration of Seventy-one Thousand and <sup>00</sup>/<sub>100</sub>  
(\$ 71,000.00) Dollars, and other good and valuable consideration, the receipt whereof is hereby acknowledged, do(es)  
hereby waive and release any and all lien or claim of, or right to, lien, under the State of Illinois relating to mechanics' liens, with  
respect to and on said above-described premises, and the improvements thereon, and on the material, fixtures, apparatus or machinery  
furnished, and on the moneys, funds or other considerations due or to become due from the owner, on account of labor, services,  
material, fixtures, apparatus or machinery heretofore furnished, or which may be furnished at any time hereafter, by the undersigned  
for the above-described premises, INCLUDING EXTRAS\*.

That the total amount of the contract including extras \* is \$ 127,331.79 on which he or she has received payment of  
\$ 56,331.79 prior to this payment. That all waivers are true, correct and genuine and delivered unconditionally and that  
there is no claim either legal or equitable to defeat the validity of said waivers. **THAT THE FOLLOWING ARE THE NAMES  
AND ADDRESSES OF ALL PARTIES WHO HAVE FURNISHED OR WILL FURNISH MATERIAL OR LABOR, OR  
BOTH, FOR SAID WORK** and the amount due or to become due to each, and that the items mentioned include all labor and  
material required to complete said work according to plans and specifications:

NAMES AND ADDRESSES	WHAT FOR	CONTRACT PRICE INCLD EXTRAS *	AMOUNT PAID	THIS PAYMENT	BALANCE DUE
<u>Commercial Material Solutions</u>	<u>landscaping materials</u>	<u>127,331.79</u>	<u>56,331.79</u>	<u>71,000.00</u>	<u>0</u>
<u>2206 N Main St, Ste. 190</u>					
<u>Wheaton, IL 60187</u>					
TOTAL LABOR AND MATERIAL INCLUDING EXTRAS * TO COMPLETE		<u>127,331.79</u>	<u>56,331.79</u>	<u>71,000.00</u>	<u>0</u>

\*EXTRAS INCLUDE BUT ARE NOT LIMITED TO CHANGE ORDERS, BOTH ORAL AND WRITTEN, TO THE CONTRACT.  
That there are no other contracts for said work outstanding, and that there is nothing due or to become due to any person for material,  
labor or other work of any kind done or to be done upon or in connection with said work other than above stated.

COMPANY NAME Commercial Material Solutions LLC

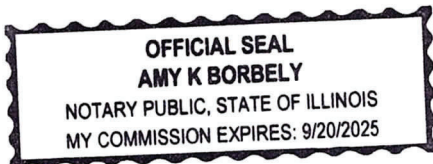
ADDRESS 2206 N Main St, Ste. 190

CITY, STATE, ZIP Wheaton, IL 60187

DATED: 3/7/2022

[Signature] President  
SIGNATURE AND TITLE

SUBSCRIBED AND SWORN TO BEFORE ME THIS 7<sup>TH</sup> DAY OF March, 20 22



Amy K. Borbely  
NOTARY PUBLIC







# Interoffice Memo

Date: August 10, 2022

To: Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager

From: Terry Lusby, Jr., Facilities & Fleet Superintendent

Subject: LED Street Lighting Replacement - Phase 6 Project Award/Renewal (Year 2 of 3)

Presented at the Committee of the Whole and Village Board meetings for consideration and possible action:

Scope of Work:

Currently Public Works has completed Phases One thru Five of the LED Street Lighting Replacement Project in FY 2017 Thru 2021, which includes approximately 2,271 streetlights. This LED Street Lighting Replacement Project will continue to benefit the village in multiple ways. This service contract is a renewal to provide all applicable labor and materials to replace/retrofit new approximately 300 new LED light heads from existing High Pressure Sodium/Metal Halide/Mercury light heads within the specified areas of the Phase 6 (Between 175<sup>th</sup> – 186<sup>th</sup> and Old Lagrange – 80<sup>th</sup> Ave).

Description:

Public Works is recommending the extension of our current contract for an additional year for LED Street Lighting Replacement. The contract has the option of two (2), one (1) year renewals. This would be the first (1<sup>st</sup>) extension of the contract. The past year H & H Electric, Inc. has proven to be a professional and reliable contractor with reasonable rates.

Budget / Finance:

Funding is available in the approved FY23 Capital Projects Budget:

Budget Available	\$400,000
Anticipated Costs	<u>\$364,969</u>
Difference (Under Budget)	\$35,031

Staff Direction Request:

1. Approve the second (2<sup>nd</sup>) contract extension with H & H Electric Inc., of Franklin Park, IL for the LED Street Lighting Replacement - Phase 6 Project as estimated in the following amount of \$364,969.
2. Direct staff as necessary.

Staff Direction Request:

1. Christopher Burke Engineering Letter of Recommendation.



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

August 9, 2022

Village of Tinley Park  
16250 South Oak Park Avenue  
Tinley Park, IL 60477

Attention: Mr. Terry Lusby

Subject: Bid Review  
LED Street Lighting Replacement – Phase 6a  
Village of Tinley Park  
(CBBEL Project No. 16-0373.0003C)

Dear Terry:

H & H Electric Company provided the attached proposal for work related to removal of existing HID luminaires and furnishing and installing LED luminaires. Per the contract awarded in November 2021, the Village may extend the existing agreement with H & H Electric for 3 years.

CBBEL recommends that the Village award a contract in the amount of \$364,969.10 to H & H Electric Company of Franklin Park, Illinois for the subject project. H & H Electric Company completed the previous LED lighting contract with the Village and performed satisfactorily.

If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'John P. Caruso'.

John P. Caruso, PE  
Head, Mechanical/Electrical Department

JPC/pjb

N TINLEYPARK\160373.00003C\ADMIN\L1.080922.docx



# Interoffice Memo

**Date:** August 10, 2022

**To:** Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager  
John Urbanski, Public Works Director

**From:** Terry Lusby, Jr., Facilities & Fleet Superintendent

**Subject:** Furniture Purchase - Police Station/Public Works Offices

Presented at the Committee of the Whole and Village Board meetings for consideration and possible action:

Description: Approve the furniture purchase for the Police Station/Public Works that is valued over \$20,000.

Background: The current office furniture in the Police Station/Investigations area is not adequate for the current and future staffing levels. Additionally, the office furniture in the Public Works Foremen's office is over 15 years old and both spaces (PD & PW offices) need to be renovated to maximize spacing for safety, organization, and employee morale. Staff is requesting authorization to purchase new office furniture through the OMNIA Partners Cooperative contract (#R192007) from Warehouse Direct Office Interiors.

Budget / Finance: Funding is budgeted and available in the approved FY23 Budget; Municipal Buildings Fund.

Budget Available	90,000
<u>Purchase Amount</u>	<u>39,000</u>
Difference – Under Budget	\$51,000

Staff Direction Request:

1. Approve purchase order through the OMNIA Partners Cooperative contract from Warehouse Direct Office Interiors, of IL for new office furniture as estimated in the amount of \$39,000.
2. Direct staff as necessary.



# Interoffice Memo

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**Date:** August 16, 2022

**To:** Village Board

**From:** Pat Carr, Village Manager

**Subject:** Air Mobility Demonstration MOU

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The village manager seeks approval to execute a memorandum of understanding with EVE Air Mobility based in Brazil. EVE Air Mobility is one many companies that are designing Electric Vertical Take Off and Land (eVTOL) vehicles. These electric air vehicles are in the process of FAA approval by 2024 and air taxi operations by 2026. This 2 week demonstration will utilize helicopters conducting operations from the Tinley Park Helipad (TF8) to assess air taxi services from suburban locations to the City of Chicago. There is no exchange of funds for this demonstration project.



# Interoffice Memo

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**Date:** August 8, 2022  
**To:** Village Board of Trustees  
**From:** Kristin Thirion  
**Subject:** Proposed Ordinance Amending Title II, Chapter 32: Residency Requirements of Commissioners and Committee Members

The proposed amendment specifies that members of the Civil Service Commission, Economic and Commercial Commission, Plan Commission, and the Zoning Board of Appeals must be residents of the Village of Tinley Park. Current, non-resident Commissioners serving in one of the aforementioned Commissions will be permitted to continue serving until (1.) he or she is not re-appointed or (2.) he or she resigns.

Additionally, the proposed amendment requires that Commission and Committee Chairs must be residents of the Village, with the exception of the Advisory Commission on Labor and Development, the Environmental Enhancement Commission, and the Sister Cities Commission.



# Interoffice Memo

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**Date:** August 11, 2022

**To:** Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager

**Cc:** Anthony Ardolino, Information Technology Manager

**From:** Angela Arrigo, Human Resources Director

**Subject:** Professional Service Agreement - NeoGov™

The Human Resources Department continues to make progress with implementation of HR technology focused on enhancing both the employee and hiring manager employment experience. The NEOGOV 'Insight' implementation was completed in January 2022 and the 'Perform' implementation is anticipated to be completed in September 2022.

To continue enhancing HR technology needs, it is recommended to move forward with a software as a service (SaaS) agreement with NEOGOV™ for a 3-year subscription term for the additional modules of 'OnBoard', 'eForms', and 'Learn'. NEOGOV's onboarding solution 'OnBoard' is designed to compliment 'Insight' and allow candidates offered employment to participate in a structured online onboarding experience. New hires will be able to complete paperwork prior to their first day. The Village will be able to share organizational values and mission, reinforce job duties, assign mentors, and schedule check-ins, all within one online system that has the flexibility to meet each department's individual needs. The 'eForms' solution will centralize all the individual paper forms that employees may need to complete during the course of employment into online employee forms with approval workflows and an easy-to-use self-service portal. NEOGOV's 'Learn' is a learning management system that promotes employee training with an easy-to-use system for HR, department managers, and employees. 'Learn' eliminates the administrative burden of managing multiple employee training programs by providing a centralized online platform and is designed for the specific needs of the public sector. This training resource was previously used by the Village under a contract that ended in November 2021 and the training was highly utilized.

Adding these additional modules to the current NEOGOV™ SaaS solution provides the greatest savings to the Village and with a three-year agreement the Village can take advantage of further savings as outlined in the attached contract. A three-year subscription agreement would total \$88,703.63. Funds have been budgtd in fiscal year 2023.

NEOGOV:		Customer Name & Address:	
Governmentjobs.com, Inc. (dba “NEOGOV”) 2120 Park Pl. El Segundo, CA 90245 billing@neogov.net		Tinley Park, Village of (IL) 16250 S. Oak Park Ave. Tinley Park, IL 60477	
Quote Creation Date:	June, 13 <sup>th</sup> , 2022	Contact Name:	Angela Arrigo
Quote Expiration Date:	Aug. 31 <sup>st</sup> , 2022	Contact Email:	aarrigo@tinleypark.org
Payment Terms	Annual. Net 30 from NEOGOV invoice.		
Fee Summary			
Service Description		Term	Term Fees
FTE- 300-349			
Onboard (ON) eForms (EF) Learn (LE)		September 21 <sup>st</sup> 2022 – September 20 <sup>th</sup> 2023	\$18,245.25
Onboard (ON) eForms (EF) Learn (LE)		September 21 <sup>st</sup> 2023 – September 20 <sup>th</sup> 2024	\$27,367.88
Onboard (ON) eForms (EF) Learn (LE)		September 21 <sup>st</sup> 2024 – September 20 <sup>th</sup> 2025	\$36,490.50
Professional Services – Implementation and Training		September 21 <sup>st</sup> 2022 – September 20 <sup>th</sup> 2023	\$6,600.00

## A. Terms and Conditions


1. Agreement. This Ordering Document and the Services purchased herein are expressly conditioned upon the acceptance by Customer of the terms of the NEOGOV Services Agreement either affixed hereto or the version most recently published prior to execution of this Ordering Form available at <https://www.neogov.com/service-specifications>. Unless otherwise stated, all capitalized terms used but not defined in this Order Form shall have the meanings given to them in the NEOGOV Services Agreement.
2. Effectiveness & Modification. Neither Customer nor NEOGOV will be bound by this Ordering Document until it has been signed by its authorized representative (the "Effective Date"). Unless otherwise stated, all SaaS Subscriptions shall commence on the Effective Date. This Order Form may not be modified or amended except through a written instrument signed by the parties.
3. Summary of Fees. Listed above is a summary of Fees under this Order. Once placed, your order shall be non-cancelable and the sums paid nonrefundable, except as provided in the Agreement.
4. Order of Precedence. This Ordering Document shall take precedence in the event of direct conflict with the Services Agreement, applicable Schedules, and Service Specifications.

## B. Special Conditions (if any).



1. Initial Term 36 months

IN WITNESS WHEREOF, the parties have caused this Order to be executed by their respective duly authorized officers as of the date set forth below, and consent to the Agreement.

Customer	Governmentjobs.com, Inc. (DBA "NEOGOV")
Entity Name: Tinley Park, Village of (IL)	
Signature: _____	Signature:  _____
Print Name:	Print Name: Ana Alfaro
Date:	Date: 08/02/2022





# Interoffice Memo

**Date:** August 11, 2022

**To:** Committee of the Whole

**From:** Pat Carr, Village Manager  
Hannah Lipman, Assistant Village Manager  
Angela Arrigo, Human Resources Director

**Subject:** Renewal of Medical, Dental, Vision, & Life Insurance Benefits

The Horton Group became the Village's health insurance broker and benefit consultant in July and immediately began working on a comprehensive renewal and obtaining competitive pricing, negotiating the employee benefit plans on the Village's behalf. As a result of their efforts, the initial renewal increases were further reduced for all lines of coverage and the Village received competitive quotes from multiple dental carriers.

## Premium Renewal

The Horton Group was able to re-negotiate a 24.9% increase to the medical premium down to a 14.7% increase for a 15-month term. Given the trending higher loss ratio of the medical plans, the market declining to quote, and development of a future strategic benefit strategy focused on maintaining a comprehensive benefits program, it would be advantageous for the Village to secure a longer-term contract at 15-months.

MEDICAL	BCBS of IL		
Contributory	Current	Renewal	Revised Renewal
Estimated Monthly Premium	\$451,336.37	\$563,719.14	\$517,683.72
Estimated Annual Premium	\$5,416,036.44	\$6,764,629.68	\$6,212,204.64
Difference From Current Premium		\$1,348,593.24 24.9%	\$796,168.20 14.7%

The Horton Group marketed the dental plan and received quotes from 4 dental providers, of which 3 quotes were less than the current premiums. MetLife's quote was very attractive with a reduction of \$57,814 (-18.41%) for the same plan design and with a second-year cap of 6% and third-year cap of 7%. A change to MetLife dental benefits would result in a substantial savings to the Village of approximately \$170,000 over 3 years. Further analysis resulted in additional consideration for the limited 1 tooth benefit provision and that was considered when considering the comparable plan. It is expected that minimal provider network disruption exists and a larger network of dental providers will be available to employees under MetLife dental.

DENTAL	BCBS of IL	MetLife
Contributory	Current	Renewal
Estimated Monthly Premium	\$26,173.18	\$21,355.33
Estimated Annual Premium	\$314,078.16	\$256,263.96
Difference From Current Premium	\$0 0%	(\$57,814.20) -18.41%

The vision premium will decrease by 3.20%. This premium is 100% paid by employees.

<b>VISION</b>	<b>VSP</b>	
	<i>Current</i>	<i>Renewal</i>
<b>Estimated Monthly Premium</b>	<b>\$2,590.12</b>	<b>\$2,507.25</b>
<b>Estimated Annual Premium</b>	<b>\$31,081.44</b>	<b>\$30,087.00</b>

Difference From Current Premium (\$994.44)

-3.20%

After re-negotiating the life insurance 0% increase presented by BCBS, The Horton Group was successful in securing a life insurance decrease of 9.74% and a two-year premium lock. This premium is 100% paid by the Village.

<b>LIFE AND AD&amp;D</b>	<b>BCBS</b>	
	<i>Current</i>	<i>Renewal</i>
<b>Estimated Monthly Premium</b>	<b>\$2,533.55</b>	<b>\$2,286.68</b>
<b>Estimated Annual Premium</b>	<b>\$30,402.45</b>	<b>\$27,440.16</b>

Difference From Current Premium (\$2,962.29)

-9.74%

#### **Renewal Recommendation**

The Village budgeted 6% for anticipated health insurance increases for FY2022. After thorough analysis, Village staff recommends that we accept the Blue Cross Blue Shield medical renewal, the MetLife dental quote, the VSP vision renewal, and Blue Cross Blue Shield Life Insurance renewal. Village staff further recommends transitioning to a 15-month renewal for all lines of coverage for the period October 1, 2022 through December 2023 resulting in a calendar year benefit plan beginning in January 2024.

#### **Employee Contributions**

Based on the Mercer/Foster Higgins 2020 Survey, benchmarking data shows that the PPO employer health plan percent contribution for government employers is 82% Single / 72% Family. The Village currently contributes 89% Single/Family towards the medical and dental premiums for full-time, non-union employees. It is recognized that Village percent contributions will need to continue to increase to better align with the marketplace and share in increasing medical and dental costs.

Village staff recommends an employee contribution increase for non-union, full-time employees from 11% to 12% for medical and dental insurance coverage effective October 1, 2022. Employee contributions for MAP & Sergeants are currently at 12%. Employee contributions for IUOE remain at 10%, based on the current contract dated through April 2022.

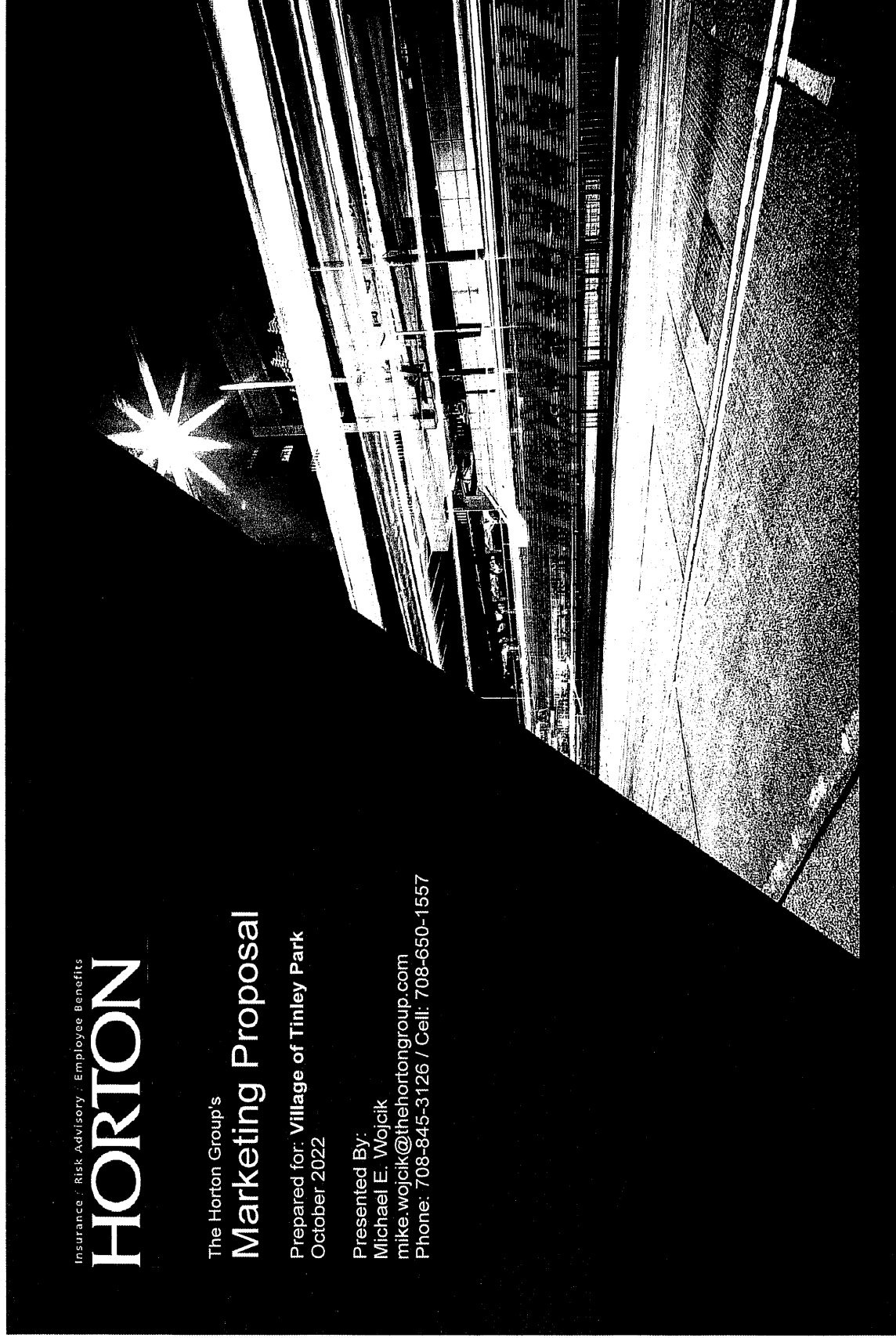
Insurance / Risk Advisory / Employee Benefits

# HORTON

## The Horton Group's Marketing Proposal

Prepared for: Village of Tinley Park  
October 2022

Presented By:  
Michael E. Wojcik  
[mike.wojcik@thehortongroup.com](mailto:mike.wojcik@thehortongroup.com)  
Phone: 708-845-3126 / Cell: 708-650-1557





**HORTON**

## Village of Tinley Park

October 1, 2022

The following Medical markets were approached:

<i><b>Carrier</b></i>	<i><b>Status</b></i>
Aetna	Declined
Blue Cross Blue Shield of IL	Quoted
Cigna	Declined
Humana	Declined
United Healthcare	Declined

The following Voluntary Dental markets were approached:

<i><b>Carrier</b></i>	<i><b>Status</b></i>
Aetna	Quoted
BCBS	Incumbent
MetLife	Quoted
UHC	Quoted

Village of Tinley Park  
Health Review  
October 1, 2022

Taken from Renewal

	EE	ES	EC	FAM	Med	Med +1	Total
BA HMO	11	2	4	9	0	0	26
HMOI	14	5	2	14	0	0	35
PPO	79	50	22	86	3	1	241
Total	104	57	28	109	3	1	302

Presented by: Mike Wojcik

Type of Plan	CURRENT BCBS			12 Month Policy RENEWAL BCBS			15 Month Policy RENEWAL BCBS		
	BA HMO	HMO I	PPO	BA HMO	HMO I	PPO	BA HMO	HMO I	PPO
<b>In Network Benefits</b>									
Individual Deductible	n/a	n/a	\$500	n/a	n/a	\$500	n/a	n/a	\$500
Family Deductible	n/a	n/a	\$1,500	n/a	n/a	\$1,500	n/a	n/a	\$1,500
Co-Insurance	100%	100%	80%	100%	100%	80%	100%	100%	80%
Individual Out of Pocket	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Family Out of Pocket	\$3,000	\$3,000	\$4,500	\$3,000	\$3,000	\$4,500	\$3,000	\$3,000	\$4,500
Emergency Room Co-pay	\$150	\$150	\$250	\$150	\$150	\$250	\$150	\$150	\$250
Hospital Co-pay	100%	100%	80% After Ded	100%	100%	80% After Ded	100%	100%	80% After Ded
Retail Rx Co-pay	\$10/40/60	\$10/40/60	\$15/40/60	\$10/40/60	\$10/40/60	\$15/40/60	\$10/40/60	\$10/40/60	\$15/40/60
Mail Order Rx Co-pay	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail
Individual Rx OOPM includes copays	\$1,000	\$1,000	\$3,000	\$1,000	\$1,000	\$3,000	\$1,000	\$1,000	\$3,000
Family Rx OOPM includes copays	\$2,000	\$2,000	\$3,000	\$2,000	\$2,000	\$3,000	\$2,000	\$2,000	\$3,000
Primary Physician Office Visit Co-pay	\$20	\$30	\$25	\$20	\$30	\$25	\$20	\$30	\$25
Specialists Office Visit Co-pay	\$40	\$50	\$50	\$40	\$50	\$50	\$40	\$50	\$50
Telemedicine	N/A	N/A	\$25	N/A	N/A	\$25	N/A	N/A	\$25
Preventative Services	100%	100%	100%	100%	100%	100%	100%	100%	100%
Lifetime Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
<b>Out of Network Benefits</b>									
Individual Deductible			\$1,500			\$1,500			\$1,500
Family Deductible			\$4,500			\$4,500			\$4,500
Co-Insurance			60%			60%			60%
Individual Out of Pocket			\$4,500			\$4,500			\$4,500
Family Out of Pocket			\$10,500			\$10,500			\$10,500
Emergency Co-pay			80% After Ded			80% After Ded			80% After Ded
Hospital Co-pay			\$300, then			\$300, then			\$300, then
Physician Office Visit Services			60% After Ded			60% After Ded			60% After Ded
Preventative Services			60% After Ded			60% After Ded			60% After Ded
Lifetime Maximum			Unlimited			Unlimited			Unlimited
<b>Medical Premium</b>									
Employee	\$589.09	\$596.84	\$775.11	\$716.92	\$726.35	\$943.31	\$735.77	\$745.45	\$988.11
Employee + Spouse	\$1,204.39	\$1,220.25	\$1,584.73	\$1,465.74	\$1,485.04	\$1,928.62	\$1,504.28	\$1,524.09	\$1,979.33
Employee + Children	\$1,155.77	\$1,170.98	\$1,520.74	\$1,405.57	\$1,425.08	\$1,850.74	\$1,443.56	\$1,462.55	\$1,899.40
Family	\$1,788.19	\$1,811.72	\$2,352.88	\$2,176.23	\$2,204.86	\$2,863.45	\$2,233.45	\$2,262.84	\$2,936.75
Medicare Primary	\$500.63	\$507.23	\$658.72	\$609.27	\$617.30	\$801.66	\$625.29	\$633.53	\$822.74
Medicare + 1	\$1,001.27	\$1,014.44	\$1,317.45	\$1,218.55	\$1,234.57	\$1,603.34	\$1,250.59	\$1,267.04	\$1,645.50
<b>Monthly Premium</b>	\$29,605.56	\$42,163.05	\$379,567.76	\$36,025.95	\$51,312.30	\$481,933.79	\$36,977.32	\$52,661.61	\$474,080.21
<b>Total Monthly Premium</b>		\$451,336.37			\$549,276.04			\$563,719.14	
<b>Total Annual Premium</b>		\$5,416,036.44			\$6,591,312.48			\$6,764,629.68	
<b>Premium Change</b>					\$1,175,276.04			\$1,348,593.24	
<b>Percent Change</b>					21.70%			24.90%	

\*Out of Pocket Maximum includes all member costs: deductible, coinsurance, office visit copayments, emergency room copayments and prescription drug copayments.

**Village of Tinley Park  
Health Review  
October 1, 2022**

*Taken from Renewal*

	EE	ES	EC	FAM	Med	Med + 1	Total
BA HMO	11	2	4	9	0	0	26
HMOI	14	5	2	14	0	0	35
PPO	79	50	22	86	3	1	241
Total	104	57	28	109	3	1	302

Presented by: Mike Wojcik

**Renegotiated 7.21**  
12 Month Policy

**Renegotiated 7.21**  
15 Month Policy

Carriers	CURRENT BCBS			RENEWAL BCBS			RENEWAL BCBS		
Type of Plan	BA HMO	HMO I	PPO	BA HMO	HMO I	PPO	BA HMO	HMO I	PPO
<b>In Network Benefits</b>									
Individual Deductible	n/a	n/a	\$500	n/a	n/a	\$500	n/a	n/a	\$500
Family Deductible	n/a	n/a	\$1,500	n/a	n/a	\$1,500	n/a	n/a	\$1,500
Co-Insurance	100%	100%	80%	100%	100%	80%	100%	100%	80%
Individual Out of Pocket	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Family Out of Pocket	\$3,000	\$3,000	\$4,500	\$3,000	\$3,000	\$4,500	\$3,000	\$3,000	\$4,500
Emergency Room Co-pay	\$150	\$150	\$250	\$150	\$150	\$250	\$150	\$150	\$250
Hospital Co-pay	100%	100%	80% After Ded	100%	100%	80% After Ded	100%	100%	80% After Ded
Retail Rx Co-pay	\$10/40/60	\$10/40/60	\$15/40/60	\$10/40/60	\$10/40/60	\$15/40/60	\$10/40/60	\$10/40/60	\$15/40/60
Mail Order Rx Co-pay	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail	2 x Retail
Individual Rx OOPM includes copays	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Family Rx OOPM includes copays	\$2,000	\$2,000	\$3,000	\$2,000	\$2,000	\$3,000	\$2,000	\$2,000	\$3,000
Primary Physician Office Visit Co-pay	\$20	\$30	\$25	\$20	\$30	\$25	\$20	\$30	\$25
Specialists Office Visit Co-pay	\$40	\$50	\$50	\$40	\$50	\$50	\$40	\$50	\$50
Telemedicine	N/A	N/A	\$25	N/A	N/A	\$25	N/A	N/A	\$25
Preventative Services	100%	100%	100%	100%	100%	100%	100%	100%	100%
Lifetime Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
<b>Out of Network Benefits</b>									
Individual Deductible	\$589.09	\$596.84	\$775.11	\$663.90	\$672.64	\$873.55	\$675.69	\$684.58	\$889.05
Family Deductible	\$1,204.39	\$1,220.25	\$1,584.73	\$1,357.35	\$1,375.22	\$1,785.99	\$1,381.44	\$1,399.63	\$1,817.69
Co-Insurance	100%	100%	80%	100%	100%	80%	100%	100%	80%
Individual Out of Pocket	\$1,155.77	\$1,170.98	\$1,520.74	\$1,302.55	\$1,319.69	\$1,713.87	\$1,325.67	\$1,343.12	\$1,744.29
Family Out of Pocket	\$1,788.19	\$1,811.72	\$2,352.88	\$2,015.29	\$2,041.81	\$2,651.70	\$2,091.06	\$2,078.04	\$2,698.76
Emergency Co-pay	\$500.63	\$507.23	\$658.72	\$564.21	\$571.65	\$742.38	\$574.22	\$581.79	\$755.55
Hospital Co-pay	\$1,001.27	\$1,014.44	\$1,317.45	\$1,128.43	\$1,143.27	\$1,484.77	\$1,148.46	\$1,163.56	\$1,511.12
Physician Office Visit Services									
Preventative Services									
Lifetime Maximum									
<b>Medical Premium</b>									
Employee	\$29,605.56	\$42,163.05	\$379,567.76	\$33,365.41	\$47,517.78	\$427,773.20	\$33,957.69	\$48,361.07	\$435,364.96
Employee + Spouse									
Employee + Children									
Family									
Medicare Primary									
Medicare + 1									
<b>Monthly Premium</b>									
<b>Total Monthly Premium</b>									
<b>Total Annual Premium</b>									
<b>Premium Change</b>									
<b>Percent Change</b>									

\*Out of Pocket Maximum includes all member costs: deductible, coinsurance, office visit copayments, emergency room copayments and prescription drug copayments.

**Village of Tinley Park  
Health Review  
October 1, 2022**

*Taken from Renewal*

	EE	ES	EC	FAM	Med	Med + 1	Total
BA HMO	11	2	4	9	0	0	26
HMOI	14	5	2	14	0	0	35
PPO	79	50	22	86	3	1	241
<b>Total</b>	<b>104</b>	<b>57</b>	<b>28</b>	<b>109</b>	<b>3</b>	<b>1</b>	<b>302</b>

**Renegotiated 7.21**

**15 Month Policy**

Presented by: Mike Wojcik

Plan change necessitates rebalancing of HMO rates

Type of Plan	CURRENT BCBS		RENEWAL BCBS	
	BA HMO	HMO I	PPO	HMO I
<b>In Network Benefits</b>				
Individual Deductible	n/a	n/a	\$500	n/a
Family Deductible	n/a	n/a	\$1,500	n/a
Co-Insurance	100%	100%	80%	100%
Individual Out of Pocket	\$1,500	\$1,500	\$1,500	\$1,500
Family Out of Pocket	\$3,000	\$3,000	\$4,500	\$3,000
Emergency Room Co-pay	\$150	\$150	\$250	\$150
Hospital Co-pay	100%	100%	80% After Ded	100%
Retail Rx Co-pay	\$10/40/60	\$10/40/60	\$15/40/60	\$10/40/60
Mail Order Rx Co-pay	2 x Retail	2 x Retail	2 x Retail	2 x Retail
Individual Rx OOPM includes copays	\$1,000	\$1,000	\$1,000	\$1,000
Family Rx OOPM includes copays	\$2,000	\$2,000	\$3,000	\$2,000
Primary Physician Office Visit Co-pay	\$20	\$30	\$25	\$30
Specialists Office Visit Co-pay	\$40	\$50	\$50	\$50
Telemedicine	N/A	N/A	\$25	N/A
Preventative Services	100%	100%	100%	100%
Lifetime Maximum	Unlimited	Unlimited	Unlimited	Unlimited
<b>Out of Network Benefits</b>				
Individual Deductible	\$589.09	\$596.84	\$1,500	\$725.40
Family Deductible	\$1,204.39	\$1,220.25	\$4,500	\$1,483.09
Co-Insurance	60%	60%	60%	60%
Individual Out of Pocket	\$1,155.77	\$1,170.98	\$4,500	\$1,423.21
Family Out of Pocket	\$1,788.19	\$1,811.72	\$10,500	\$2,045.33
Emergency Co-pay	\$500.63	\$507.23	80% After Ded	\$616.49
Hospital Co-pay	\$1,001.27	\$1,014.44	\$300, then	\$1,232.95
Physician Office Visit Services			60% After Ded	
Preventative Services			60% After Ded	
Lifetime Maximum			Unlimited	Unlimited
<b>Medical Premium</b>				
Employee	\$29,605.56	\$42,163.05	\$775.11	\$852.62
Employee + Spouse			\$1,564.73	\$1,743.20
Employee + Children			\$1,520.74	\$1,672.81
Family			\$2,352.88	\$2,588.17
Medicare Primary			\$658.72	\$724.59
Medicare + 1			\$1,317.45	\$1,449.20
<b>Monthly Premium</b>				
Total Monthly Premium			\$379,567.76	\$417,524.39
Total Annual Premium			\$4,514,336.37	\$5,011,585.32
<b>Premium Change</b>				
<b>Percent Change</b>				

\*Out of Pocket Maximum includes all member costs: deductible, coinsurance, office visit copayments, emergency room copayments and prescription drug copayments.

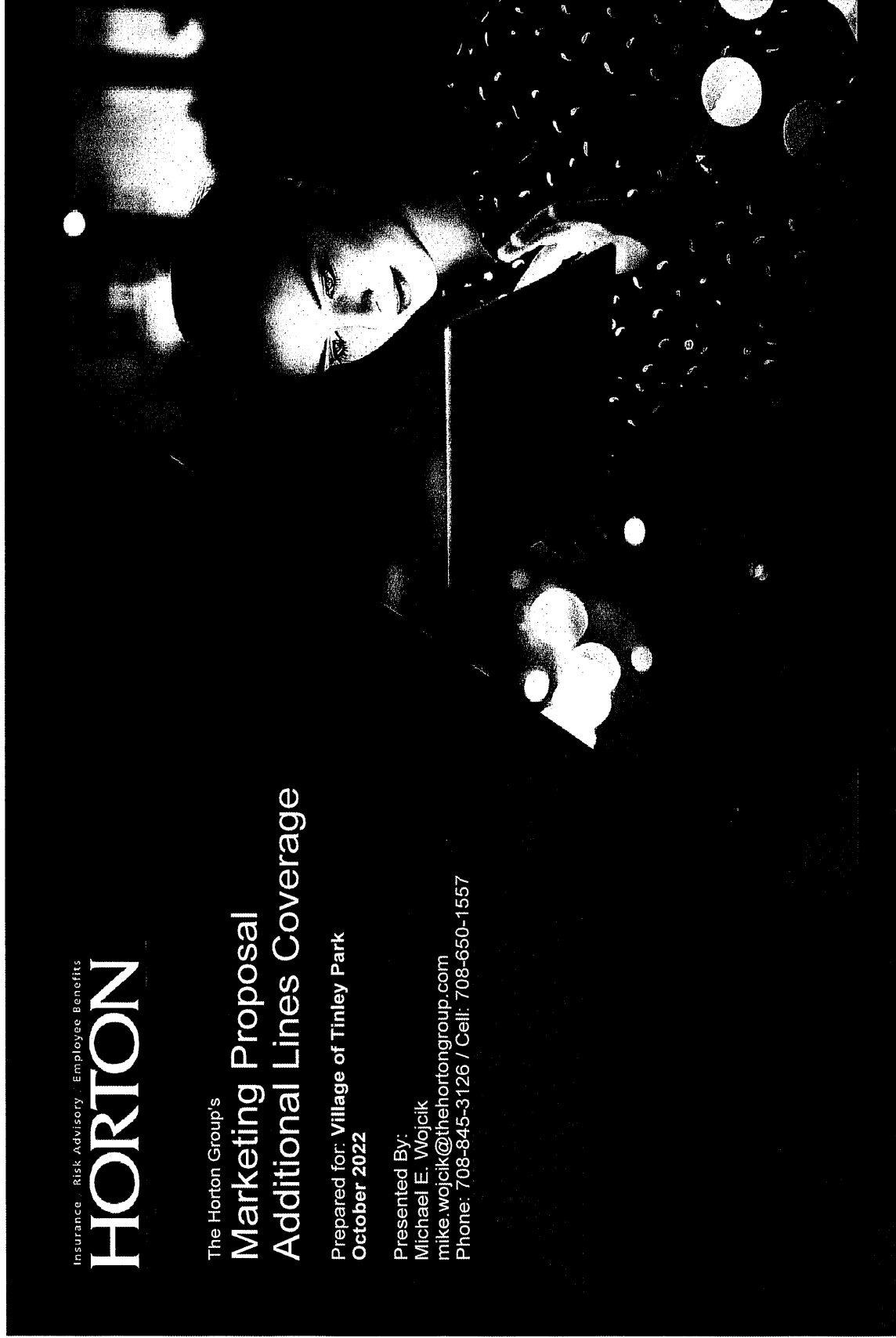
Insurance Risk Advisory Employee Benefits

# HORTON

The Horton Group's  
**Marketing Proposal  
Additional Lines Coverage**

Prepared for: Village of Tinley Park  
**October 2022**

Presented By:  
Michael E. Wojcik  
mike.wojcik@thehortongroup.com  
Phone: 708-845-3126 / Cell: 708-650-1557





Based on Renewal

<u>EE</u>	115
<u>ES</u>	59
<u>EC</u>	26
<u>FAM</u>	110
<u>Total</u>	<b>310</b>

Presented by: Mike Wojcik

Carriers:	CURRENT BCBS	RENEWAL BCBS	RENEWAL BCBS	OPTION METLIFE*	OPTION METLIFE**	OPTION METLIFE**
Type of Plan	PPO	PPO	PPO	PPO	PPO	PPO
<b>In Network Benefits</b>						
Individual Deductible	\$50	\$50	\$50	\$50	\$50	\$50
Family Deductible	\$150	\$150	\$150	\$150	\$150	\$150
Preventative Co-Insurance	100%	100%	100%	100%	100%	100%
Deductible Waived on Preventative	Yes	Yes	Yes	Yes	Yes	Yes
Basic Co-Insurance	80%	80%	80%	80%	80%	80%
Major Co-Insurance	50%	50%	50%	50%	50%	50%
Orthodontia Co-Insurance	50%	50%	50%	50%	50%	50%
Deductible Waived on Ortho	Yes	Yes	Yes	Yes	Yes	Yes
Endodontics Co-Insurance	80%	80%	80%	80%	80%	80%
Periodontics Co-Insurance	80%	80%	80%	80%	80%	80%
Surgical Periodontics Co-Insurance	80%	80%	80%	80%	80%	80%
Annual Maximum	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Orthodontia Lifetime Maximum	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250
<b>Out of Network Benefits</b>						
Individual Deductible	\$50	\$50	\$50	\$50	\$50	\$50
Family Deductible	\$150	\$150	\$150	\$150	\$150	\$150
Preventative Co-Insurance	100%	100%	100%	100%	100%	100%
Deductible Waived on Preventative	Yes	Yes	Yes	Yes	Yes	Yes
Basic Co-Insurance	80%	80%	80%	80%	80%	80%
Major Co-Insurance	50%	50%	50%	50%	50%	50%
Orthodontia Co-Insurance	50%	50%	50%	50%	50%	50%
Deductible Waived on Ortho	Yes	Yes	Yes	Yes	Yes	Yes
Endodontics Co-Insurance	80%	80%	80%	80%	80%	80%
Periodontics Co-Insurance	80%	80%	80%	80%	80%	80%
Surgical Periodontics Co-Insurance	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Annual Maximum	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250
Orthodontia Lifetime Maximum	90th U&C	90th U&C	90th U&C	R&C 90th	R&C 90th	R&C 90th
<b>Dental Premium</b>						
Employee	\$39.61	\$39.61	\$39.61	\$32.37	\$32.32	\$35.04
Employee +Spouse	\$87.43	\$87.43	\$87.43	\$71.45	\$71.33	\$77.34
Employee +Child	\$83.91	\$83.91	\$83.91	\$68.58	\$68.46	\$74.23
Family	\$129.80	\$129.80	\$129.80	\$106.08	\$105.91	\$114.82
<b>Total PPO Monthly Premium</b>	<b>\$26,173.18</b>	<b>\$26,173.18</b>	<b>\$26,173.18</b>	<b>\$21,389.98</b>	<b>\$21,355.33</b>	<b>\$23,152.84</b>
<b>Total Dental Annual Premium</b>	<b>\$314,078.16</b>	<b>\$314,078.16</b>	<b>\$314,078.16</b>	<b>\$256,679.76</b>	<b>\$256,263.96</b>	<b>\$277,834.08</b>
<b>Percent Change</b>				<b>-18.28%</b>	<b>-18.41%</b>	<b>-11.54%</b>
<b>Rate Guarantee</b>				<b>Until 12/31/23</b>	<b>Until 12/31/23</b>	<b>Until 12/31/23</b>
				<b>2nd Yr Cap: 6%</b>	<b>2nd Yr Cap: 6%</b>	<b>2nd Yr Cap: 6%</b>
				<b>3rd Yr Cap: 7%</b>	<b>3rd Yr Cap: 7%</b>	<b>3rd Yr Cap: 7%</b>

\* Certain benefits are limited to 1 per tooth in 10 calendar years

\*\* Certain benefits are limited to 1 per tooth in 5 calendar years, matching current BCBS benefits

Village of Tinley Park  
Life Review  
October 1, 2022



EE'S  
253

Presented by: Mike Wojcik

Carriers	CURRENT BCBS	RENEWAL BCBS	Renegotiated 8.2
			RENEWAL BCBS
Benefit Amount			
Director & Assistant Director	\$65,000	\$65,000	\$65,000
Senior Management	\$60,000	\$60,000	\$60,000
Professional & Supervisory	\$55,000	\$55,000	\$55,000
Elected & Appointed Officials	\$50,000	\$50,000	\$50,000
Library Employees	\$50,000	\$50,000	\$50,000
All Others	\$50,000	\$50,000	\$50,000
% Benefit Amount Reduces to at Age 65	65%	65%	65%
% Benefit Amount Reduces to at Age 70	50%	50%	50%
% Benefit Amount Reduces to at Age 75	35%	35%	35%
% Benefit Amount Reduces to at Age 80	n/a	n/a	n/a
Medical Evacuation	Included	Included	Included
Life Premium			
Employee Life per \$1000	\$0.170	\$0.170	\$0.153
Employee AD&D per \$1000	\$0.025	\$0.025	\$0.023
Total for Life & AD&D	\$0.195	\$0.195	\$0.176
Life Volume	12,992,500	12,992,500	12,992,500
Life Monthly Premium	\$2,533.54	\$2,533.54	\$2,286.68
Life Annual Premium	\$30,402.45	\$30,402.45	\$27,440.16
Percentage Change		0.00%	-9.74%
Rate Guarantee		Until 11/30/23	Until 12/31/24

\*Pending Rate Adjustment 10/1/22 - Requested rate adjustment as of 10/1/22 with revised rates guaranteed to 1/1/24.

Village of Tinley Park  
Vision Review  
October 1, 2022



EE	21	36
ES	11	27
EC	3	7
FAM	8	32
<b>Total</b>	<b>43</b>	<b>102</b>

Presented by: Mike Wojcik

Reduced Rates as of 10/1/2022 with Rate Guarantee until 1/1/2024

Carrier:	Current VSP				Renewal VSP			
	In-Network	Out-of-Network	In-Network	Out-of-Network	In-Network	Out-of-Network	In-Network	Out-of-Network
<b>Copayment Exam</b>	\$10		\$10		\$10		\$10	
<b>Copayment Materials</b>	\$25		\$25		\$25		\$25	
<b>Benefits</b>								
<u>Examination</u>		Reimbursed up to \$45	\$25	Reimbursed up to \$45		Reimbursed up to \$45	\$25	Reimbursed up to \$45
<u>Basic Lenses</u>		Reimbursed up to \$30	Covered in Full	Reimbursed up to \$30		Reimbursed up to \$30	Covered in Full	Reimbursed up to \$30
Single		Reimbursed up to \$50	Covered in Full	Reimbursed up to \$50		Reimbursed up to \$50	Covered in Full	Reimbursed up to \$50
Bifocal		Reimbursed up to \$65	Covered in Full	Reimbursed up to \$65		Reimbursed up to \$65	Covered in Full	Reimbursed up to \$65
Trifocal								
<b>Lens Options</b>								
<u>Anti-Reflective Coating</u>	n/a		\$0		n/a		\$0	
<u>Scratch-Resistance</u>	n/a		\$0		n/a		\$0	
<u>Tint</u>	n/a		\$0		n/a		\$0	
<u>Progressive</u>	\$0-175		\$0		\$0-175		\$0	
<u>Other</u>	Average 30% savings		Average 30% savings		Average 30% savings		Average 30% savings	
<b>Contact Lenses</b>								
<u>Elective Conventional Lenses</u>	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105
<u>Elective Disposables</u>	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105	Covered in Full up to \$130	Reimbursed up to \$105
<u>Necessary Contact Lenses</u>	Covered in Full	Reimbursed up to \$210	Covered in Full	Reimbursed up to \$210	Covered in Full	Reimbursed up to \$210	Covered in Full	Reimbursed up to \$210
<b>Frames</b>								
<u>Availability</u>	Covered in full up to \$130 retail allowance; 20% off balance	Reimbursed up to \$70	Covered in full up to \$180 retail allowance; 20% off balance	Reimbursed up to \$70	Covered in full up to \$130 retail allowance; 20% off balance	Reimbursed up to \$70	Covered in full up to \$180 retail allowance; 20% off balance	Reimbursed up to \$70
<u>Examination</u>	Once Every 12 months		Once Every 12 months		Once Every 12 months		Once Every 12 months	
<u>Lenses</u>	Once Every 12 months		Once Every 12 months		Once Every 12 months		Once Every 12 months	
<u>Frames</u>	Once Every 12 months		Once Every 12 months		Once Every 12 months		Once Every 12 months	
<u>Contacts</u>	Once Every 12 months		Once Every 12 months		Once Every 12 months		Once Every 12 months	
<b>Rates</b>								
Employee	\$8.47		\$11.88		\$8.20		\$11.31	
Employee + One (EE + SP)	\$13.55		\$18.69		\$13.12		\$18.09	
(EE + CH)	\$13.83		\$19.08		\$13.39		\$18.47	
Family	\$22.30		\$30.77		\$21.59		\$29.78	
<b>Monthly Premium</b>	\$546.81		\$2,043.31		\$529.41		\$1,977.84	
<b>Total Monthly Premium</b>		\$2,590.12		\$2,590.12		\$2,590.12		\$2,590.12
<b>Total Annual Premium</b>		\$31,081.44		\$31,081.44		\$31,081.44		\$31,081.44
<b>Percent Change</b>								
<b>Rate Guarantee</b>		10/1/2023		10/1/2023		10/1/2023		10/1/2023

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## Exposure Evaluation

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## Coverage Terms & Conditions

All coverage terms and conditions in the preceding pages are intended as a reference only. Actual policies will contain full coverage exclusions or limitations, terms and conditions, and other wordings that are not summarized herein.

# **PUBLIC COMMENT**

**ADJOURNMENT**