



# Bolingbrook

a place to grow

# General Construction Standards 1

Sheet 1

### General Construction Notes

#### Standard Procedures

All roadway construction shall conform to the "Standard Specifications for Road & Bridge Construction," adopted January 1, 2002 by the Illinois Department of Transportation and all amendments thereto and in accordance with the latest edition of the Development Code by the Village of Bolingbrook. In case of conflict, Village Code will take precedence.

All storm sewer, sanitary sewer, and water main construction shall conform to the "Standard Specifications for Water & Sewer Main Construction," published May 1986, and in accordance with the specifications for construction in the Village of Bolingbrook Development Code, unless otherwise noted.

The contractor shall be responsible for having the utility companies locate their facilities on site prior to any construction and will be held responsible for the maintenance and preservation of these facilities. The contractor, on site, shall determine the exact locations of the utilities. The contractor shall call J.U.I.L.E. @ 1-800-892-0123, for utility locations.

Access to work sites will be made available at all times to all vehicles. At no time shall access be denied.

All top of frames for storm and sanitary sewers, as well as, valve vault covers, are to be adjusted to meet final finished grade. This adjustment is to be made by the sewer contractor. These adjustments will not alleviate the contractor from any additional adjustments as required by the Village of Bolingbrook upon final inspection of the project.

Any existing signs, light poles, utility poles, curbs, pavements, and parkways which interfere with construction operations and are not scheduled for removal shall be removed and reset by the contractor at his own expense, as directed by the engineer. Any damage to these items shall be repaired or replaced by the contractor at his own expense, to the satisfaction of the owner. Any signs not required to be reset, shall be delivered to the respective owners. Removal of specified items, including but not limited to, pavement, sidewalk, curb & gutter, and additional construction debris not present at the beginning of construction, shall be disposed of off site by the contractor at his own expense.

No underground work shall be covered until the Village of Bolingbrook has inspected and approved the work done. Approval to proceed must be obtained from the Village of Bolingbrook prior to installing pavement base, binder, surface and prior to pouring any concrete after forms are set.

At the close of each construction day, and at the conclusion of construction operations, all drainage structures and flow lines shall be promptly restored to their respective original condition.

In the event that soft material with an unconfined compressive strength less than 0.5 TSF is encountered, the contractor shall over excavate to a depth of one foot below the bottom of the pipe and backfill with compacted, crushed stone properly formed to fit the material.

Trench backfill will be required to the full depth above all underground utilities within two feet of proposed or existing pavements, utilities, driveways and sidewalks. The trench backfill shall consist of CA-7 crushed, compacted stone aggregate.

The contractor is solely responsible for safety on the job and shall comply with O.S.H.A. safety regulations.

### Street Lighting

Street lighting shall be in accordance with the requirements of the "American National Standards Practice for Roadway Lighting," approved July 8, 1977, and all revisions thereto.

The street light poles shall be spun aluminum, F.P.I. #7423-C18TE-CB with an 8' bracket mounted arm. The mounting height of the luminaire shall be 25' above the ground for residential lights and 30' above the ground for industrial lights.

#### Luminaires

Luminaires shall be high-pressure sodium, 100, 150 and 250 watt at locations specified. The luminaires shall be the following or approved equal:

- 100 Watt, 120V unit: G.E. #M2AR10S1NZAMS21 (Residential Streets)
- 150 Watt, 120V unit: G.E. #M2AR15S1NZAMS21 (Street Intersections)
- 250 Watt, 120V unit: G.E. #M2AR25S1NZAMS21 (Industrial Areas)

All luminaires shall be furnished with a photoelectric control receptacle (standard three-prong twist-lock type) installed.

All underground electrical conductors shall be Uniduct burial type with 600 Volt insulation and shall not be smaller than #8 AWG copper. Voltage drop shall not exceed 5%.

Red standard warning tape shall be installed one foot above the street light conductor wire for the full length of all trenches.

Street crossings, of electrical conduit, for the street light system, shall be subject to the following requirements:

1. All street crossings of conductor and/or cable will be installed in schedule 40, heavy wall rigid PVC conduit of size required by the Village of Bolingbrook to accommodate the conductor.
2. Duct shall extend a minimum of five (5) feet beyond the back of curb on each side of the street.
3. Duct shall be laid at an absolute minimum of fifty-two (52") inches below the bottom of the curb.
4. Duct shall be capped at both ends.

### Earthwork Improvements

#### Topsoil Excavation

1. Excavate topsoil and other structurally unsuitable materials within those areas that will require earth excavation or compacted earth fill material, in order to achieve the plan subgrade elevations.
2. Place the excavated material in a designated area for future use within areas to be landscaped, and those areas not requiring structural fill material.
3. Compaction of the excavated material shall be moderate.
4. Excess material, if not used for other on-site purposes, shall be completely removed from the construction site and disposed of off-site by the contractor.

### Earth Excavation

1. The fill material shall be placed in loose lifts that shall not exceed eight (8") inches in thickness, and the water content shall be adjusted in order to achieve required compaction. Earth material may be placed within that portion of the site not requiring structural fill to within six (6") inches of the plan finished grade elevation. In areas requiring structural fill, however, the earth material shall not be placed over topsoil or other unsuitable materials unless specifically directed by a soils engineer with the concurrence of the Village of Bolingbrook.

2. Compaction of the earth and other suitable materials shall be to at least 95% of the modified proctor dry density with proposed pavements and building pad areas, sidewalks, etc. Moderate compaction is required elsewhere.

3. Excess materials, if not utilized as fill, shall be completely removed from the construction site and disposed of off site by the contractor.

4. Topsoil shall be stripped before placement of fill.

### Preservation

Prior to removal of any trees or construction activities, a tree removal permit must be obtained. Prior to any grading or construction activity on the site, all tree fencing shall be in place. It shall extend 10' beyond the tree dripline and shall be high enough so as to be visible to all construction personnel.

Trees not marked for removal shall be considered as designated to be saved and shall be protected under the provisions of the Village of Bolingbrook Code.

Grade changes, utility trenches, storage or construction material, dumping of waste or storage of construction equipment shall not be allowed within the snow fence. Any utilities proposed within the snow fence will be augered.

It is recommended that trees be maintained in their native condition. No lawn should be placed around trees and that the area be mulched with two (2") inches of decomposed leaves and two (2") inches of wood chips or bark.

All trees to be saved which have been subjected to construction activity within the dripline, should be selectively thinned 10% by an arborist. No tree shall be topped, headed-back, skinned, or climbed with spikes; however, all dead wood shall be removed. All cuts over one (1") inch in diameter shall be made flush with the next large branch. Wounds over one (1") inch in diameter shall be painted with an approved tree paint. All pruning shall be done in a timely fashion so as not to interfere with construction. All limbs, branches, and other debris resulting from this work shall be disposed of off site by the contractor at his own expense.

Encroachment into the root zone, whether by equipment or construction materials, detrimental to the health of the tree, shall result in a fine of \$300.00 (min) to \$1000.00 (maximum) per occurrence per day.

### Parkway Tree Planting

Planting season shall be approximately, March 15 - May 1 & October 15 - December 1. For a list of allowed species see chapter 30 section 415 of the "Village of Bolingbrook Development Code."

Trees shall be planted on a maximum of 40' and a minimum of 25' spacing such that the total number of trees shall equal or exceed the ratio of one tree for each 40' of street frontage.

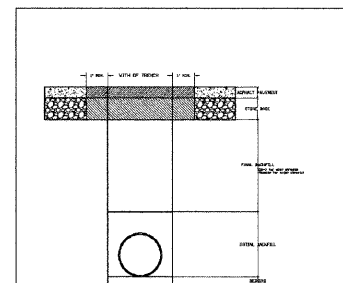
All trees shall be grown in a nursery located in the northern half of the state of Illinois and licensed by the state of Illinois. All trees will have a minimum of three inches of mulch. Excess soil, clay, or construction materials will not be used as backfill material.

### Traffic Control Measures

After the roads are constructed and opened to traffic, the developer shall install any necessary traffic control measures including but not limited to yield signs, stop sign, speed limit sign, and thermoplastic striping. The required traffic control measures and their locations shall be as directed by the Village Engineer.

### Com Ed / Ameritech / Comcast

Utility service lines for residential building shall be located generally along the lines, and not run across the middle of the rear yard.



- After completion of final back fill and stone base, saw cut existing pavement min. 1' beyond the perimeter of trench.
- If saw cut is within 2' of existing pavement edge or patch remove existing pavement to the edge.
- Remove old base and replace with bituminous concrete binder.
- Restore asphalt top course to match existing.

### Revisions


#### Permanent Bituminous Pavement Patch

