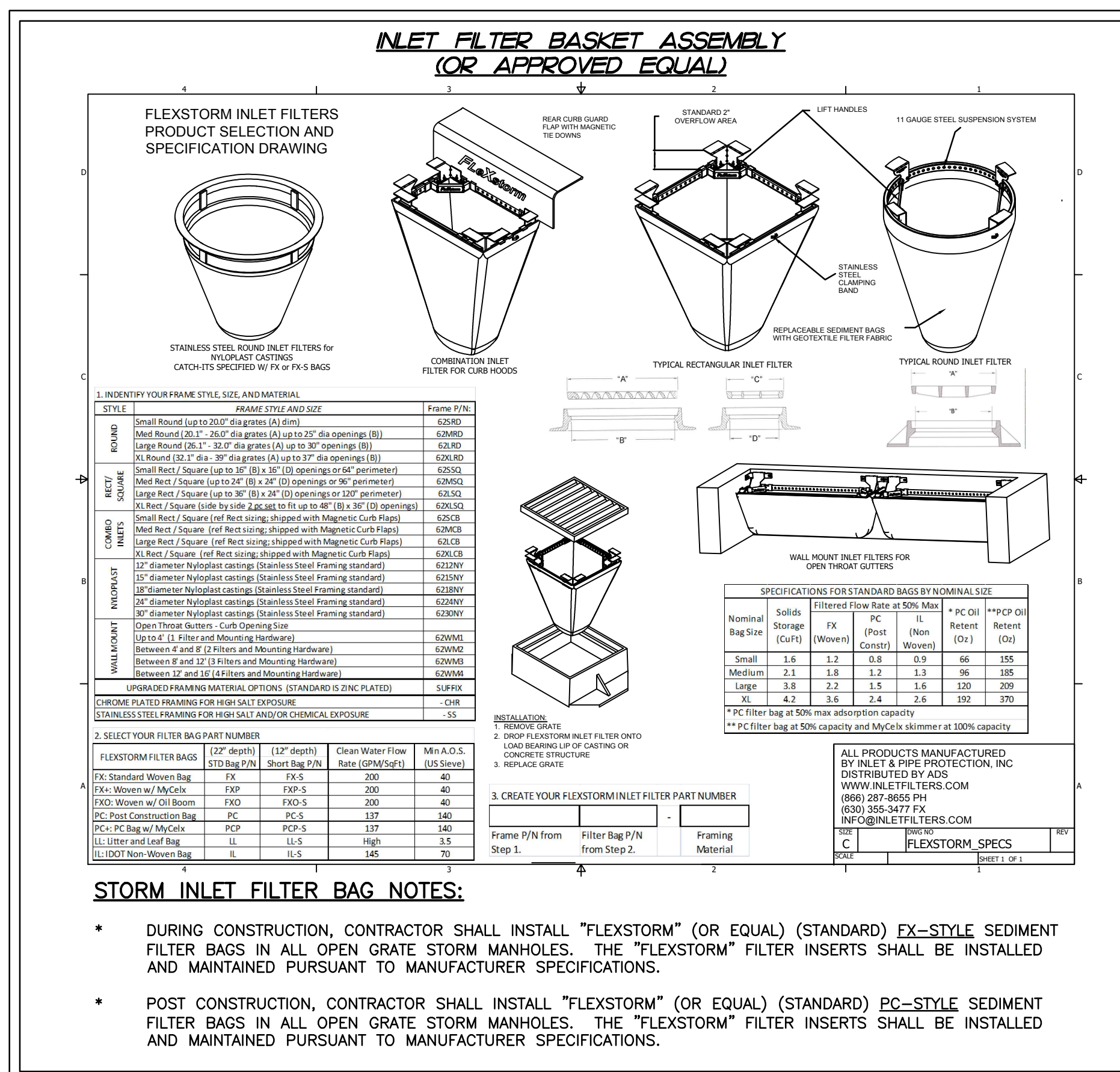
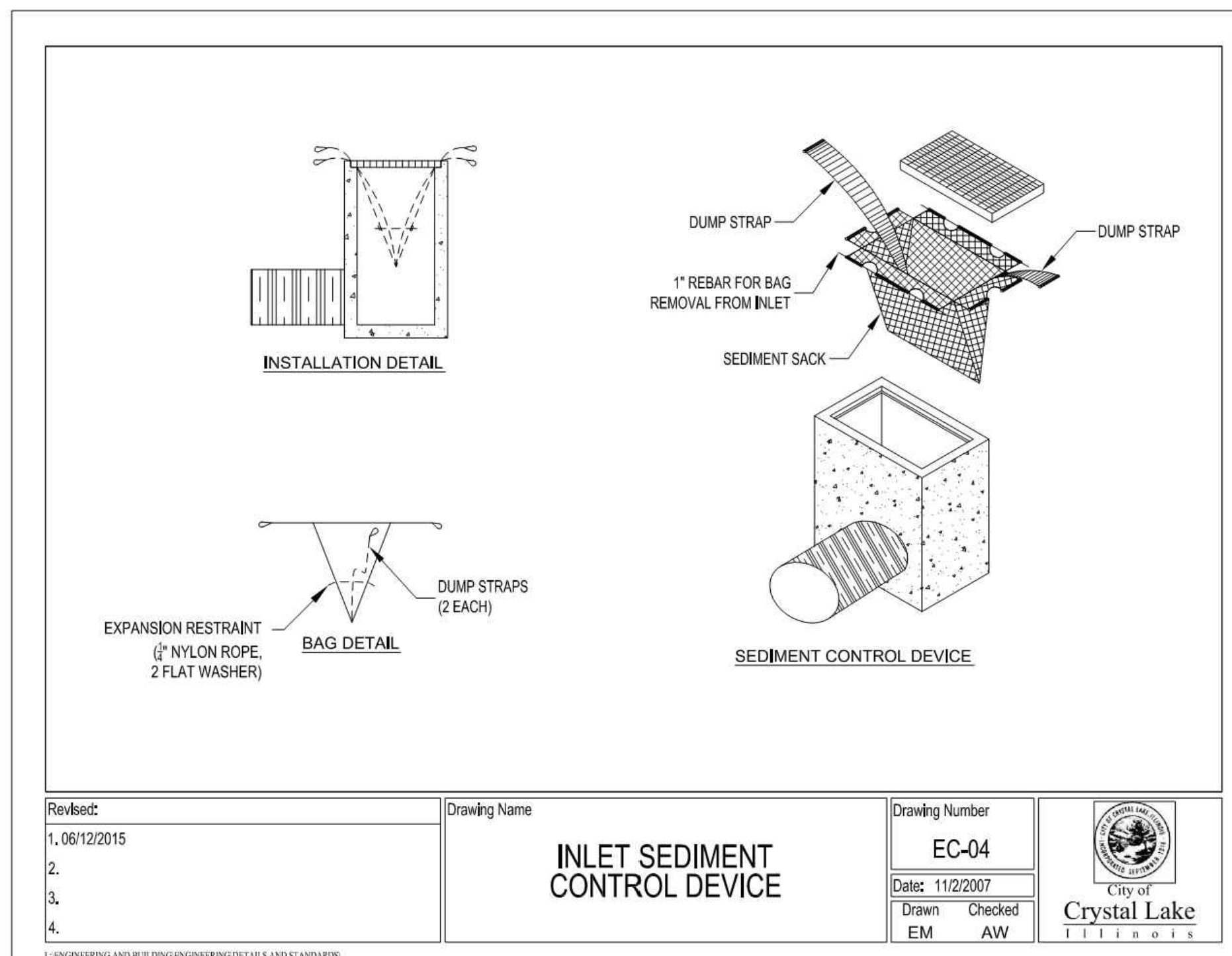
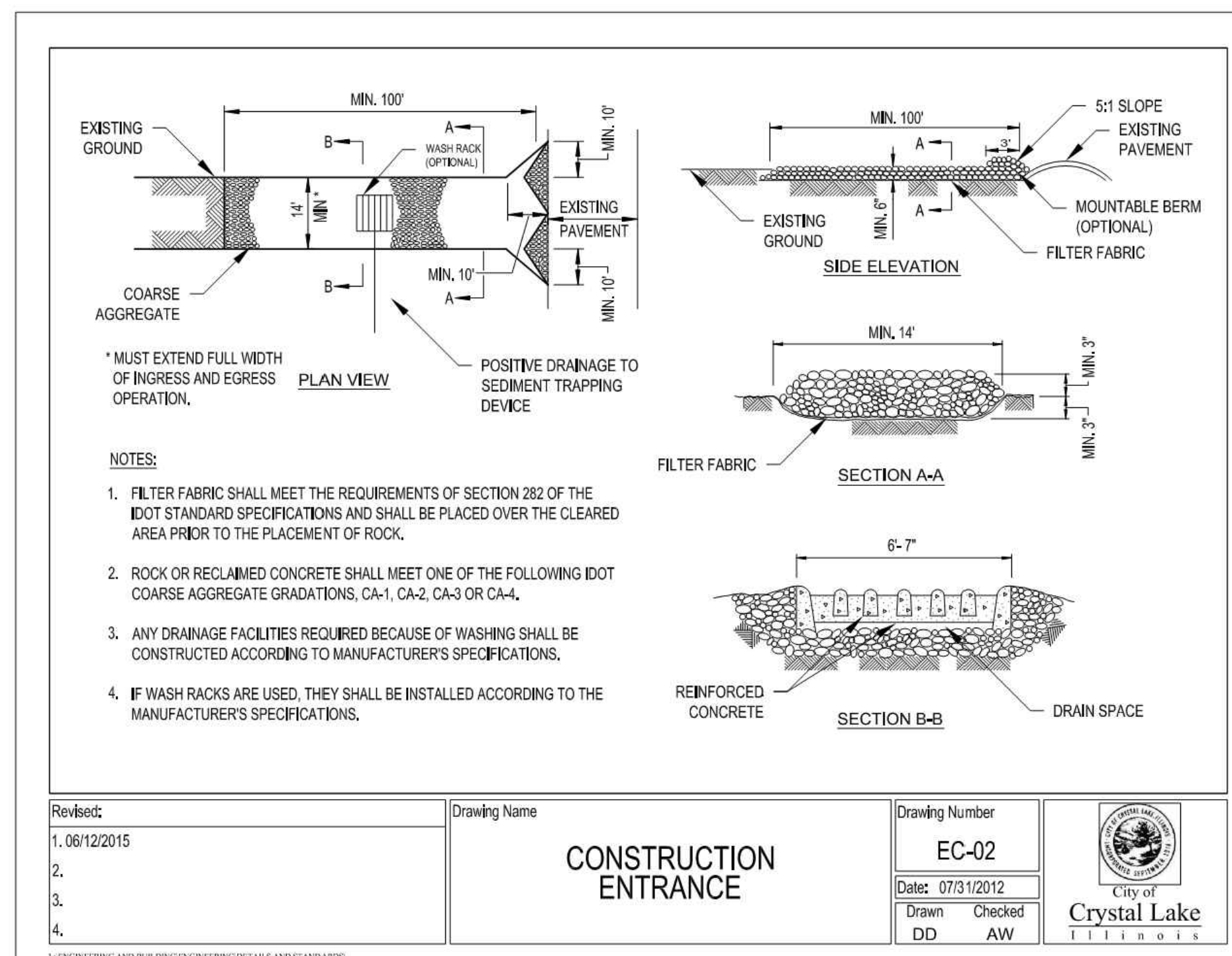
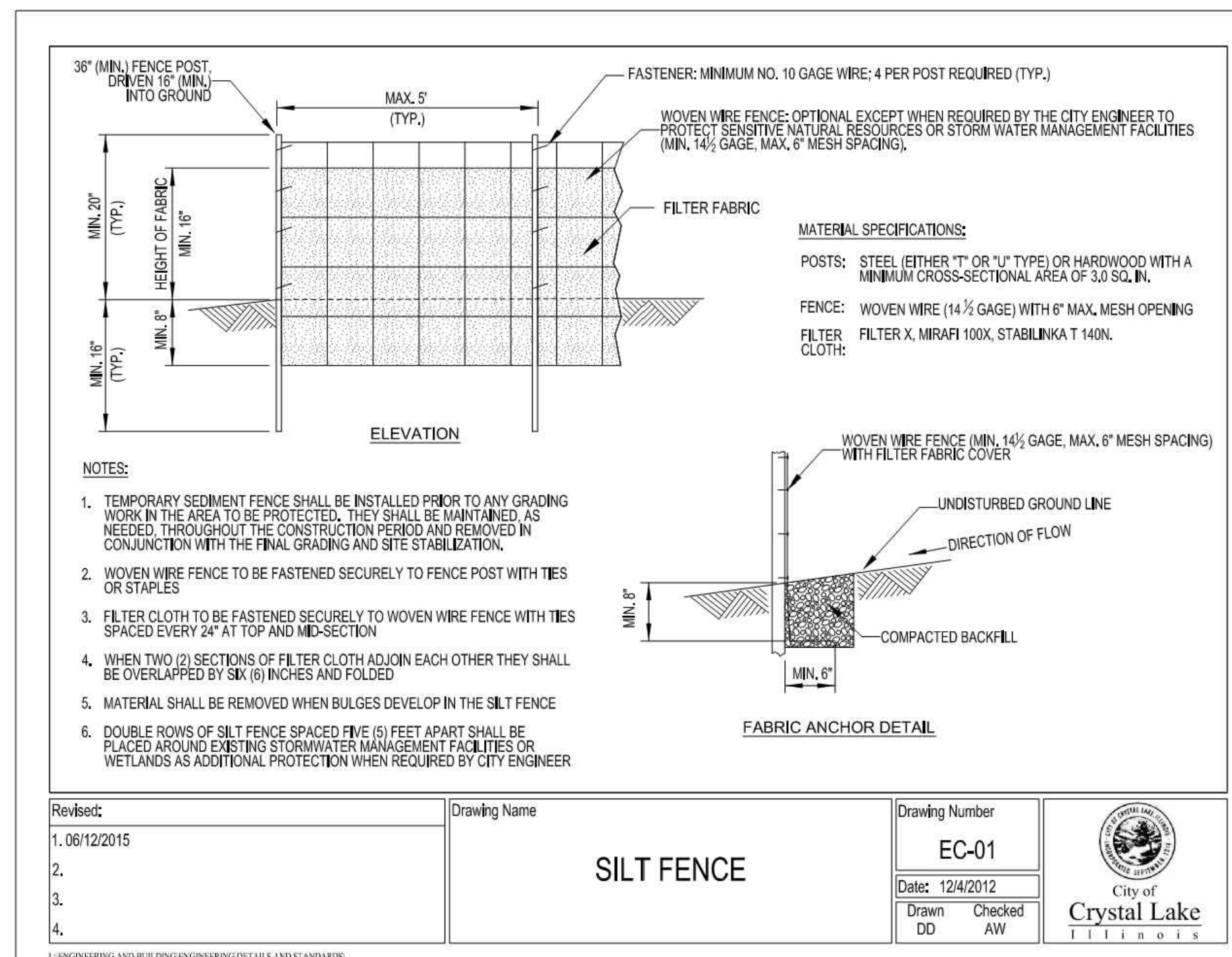


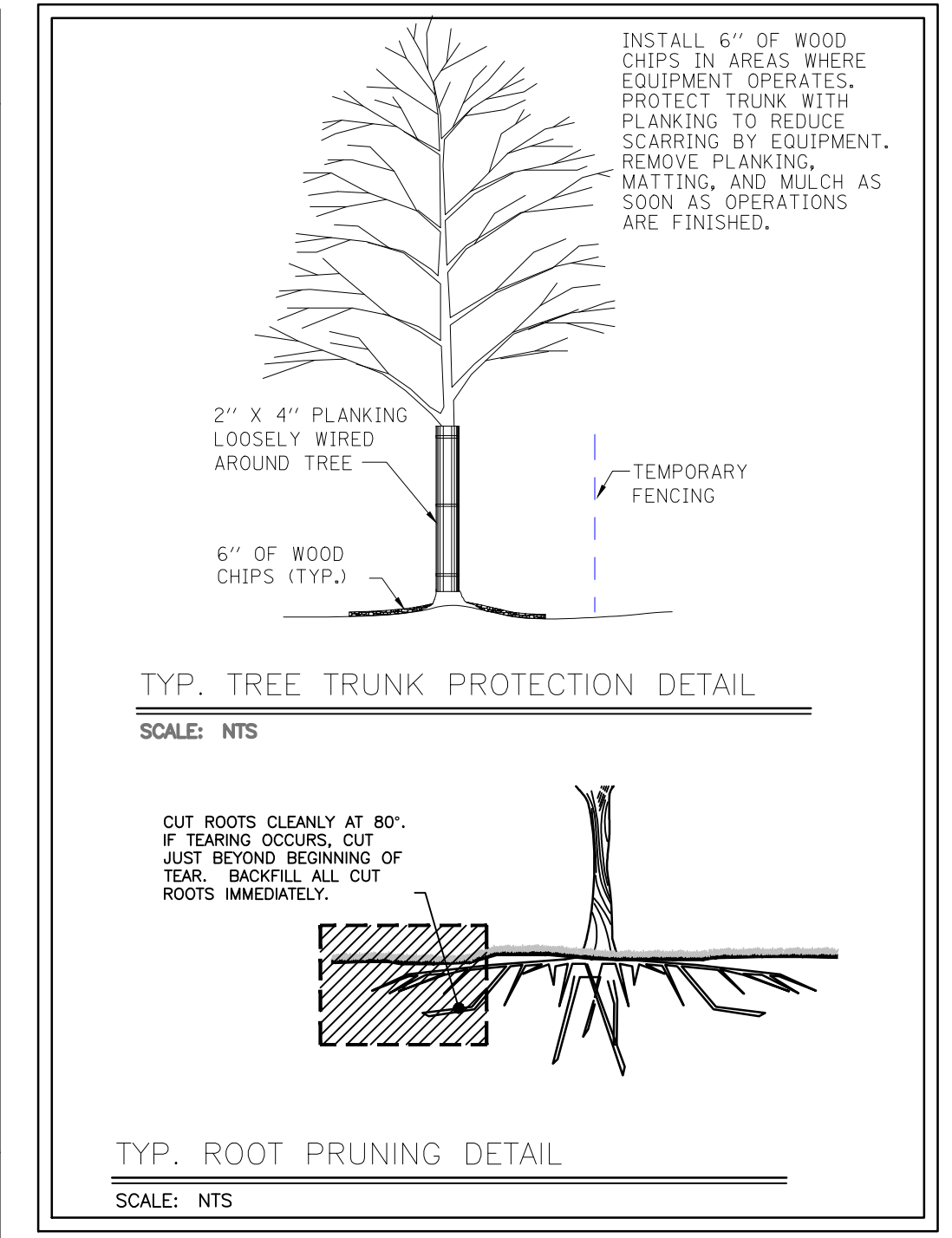
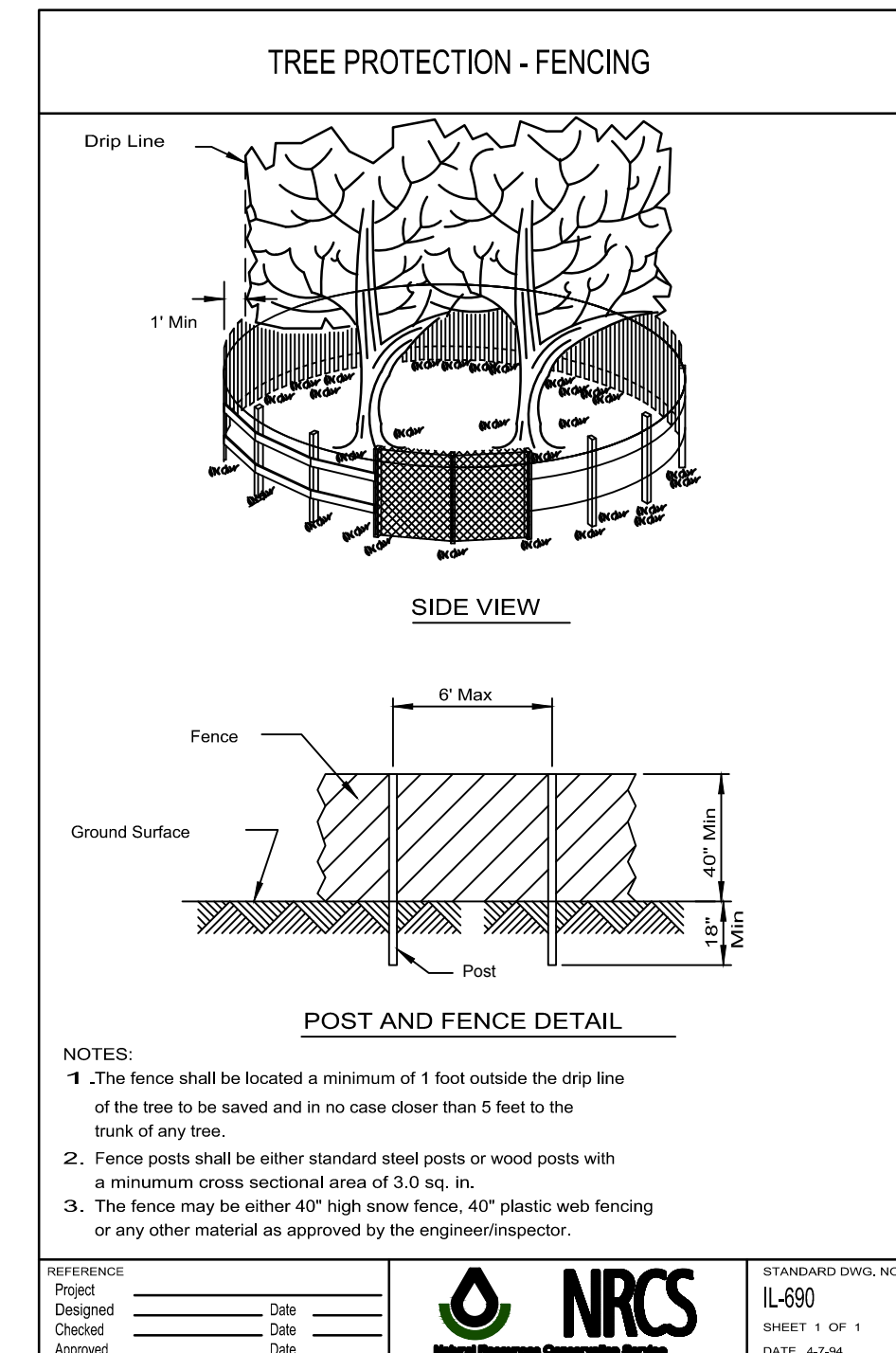
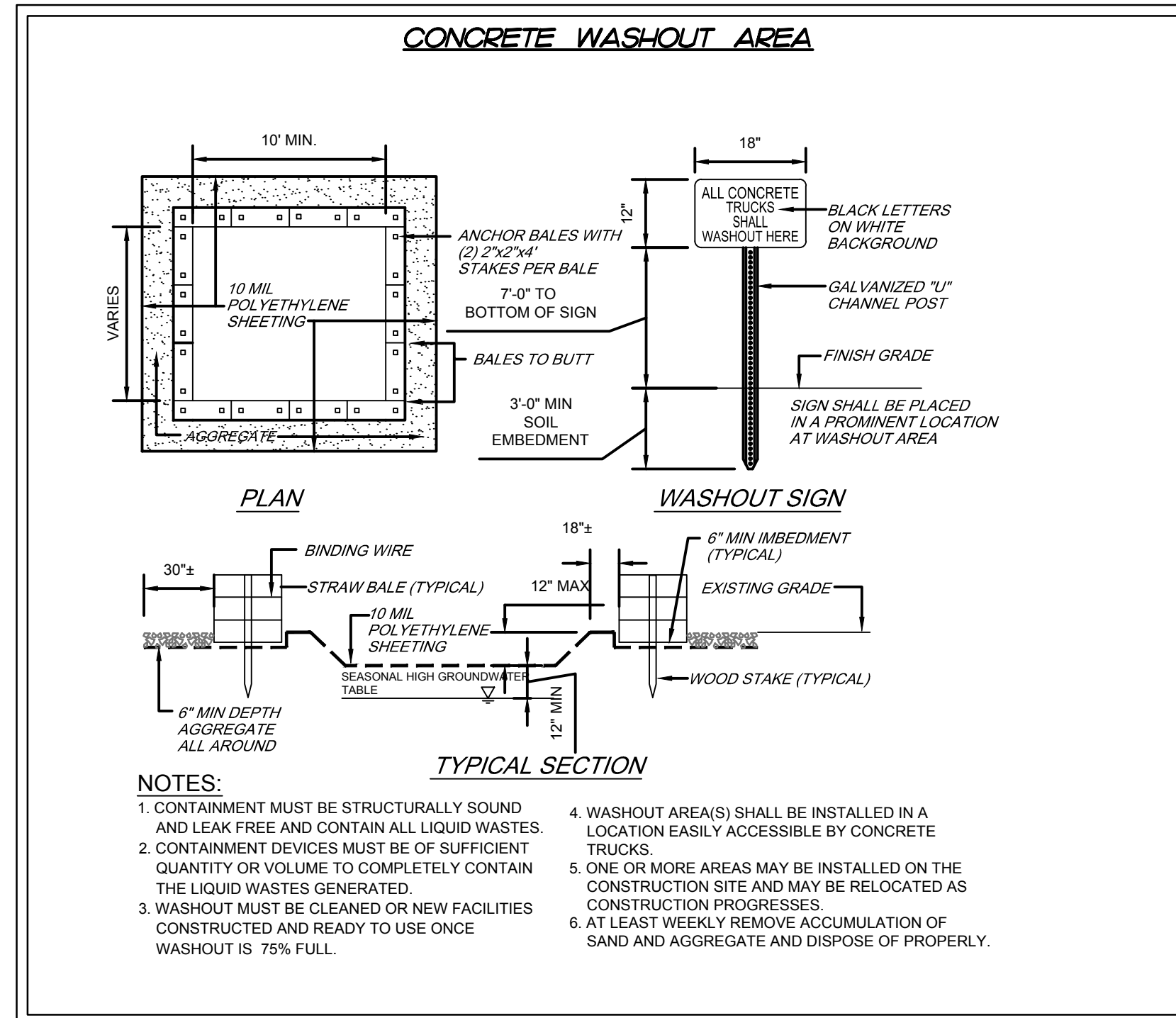
EROSION CONTROL NOTES

- All sedimentation and erosion control regulations shall be adhered to per City of Crystal Lake requirements.
- All erosion control measures shall be installed prior to the start of construction.
- No land disturbing activities shall not commence until approval to do so has been received by governing authorities, in addition to, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed. (including storm water pollution prevention plan per the development criteria.)
- If any additional soil erosion measures are deemed necessary by the City Engineer or his representative. These measures must be immediately implemented by the contractor.
- The general contractor shall adhere to the storm water pollution prevention plan (swppp) during construction operations.
- All exposed areas shall be seeded as specified within 14 days of final grading.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a 24-hour period or more frequently if required by governing NPDES general permit. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.
- This plan shall not be considered all inclusive as the general contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- General contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.
- All erosion and sediment control work shall conform to the I.D.O.T. Manual for standards and procedures for erosion control.
- All construction will adhere to the requirements set forth in the EPA's new construction site activities national pollutant discharge elimination system (NPDES) storm water permit.
- Contractor to remove all debris spilled into the R.O.W. at the end of each work day. Contractor shall also maintain and sweep debris off all access drives, roadways, bike paths, and other disturbed areas at the end of each construction day.
- All disturbed areas shall be stabilized within 7 days of active disturbance.
- All erosion control measures shall be disposed of within 30 days of final stabilization of the site.
- Ground cover for 5:1 slopes or greater shall be established as soon as possible.
- All disturbed areas to be restored w/ 4" topsoil spread & hydroseeded unless otherwise noted on plans.
- Utilize hydroseeded on all slopes of 5:1 or greater.
 - *Mulch/hydroseed per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition)
 - *Mulch/hydroseed method 4
- No dimensions shall be assumed by scaling.
- No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.
- No part of the proposed project is located within a flood hazard 10-100yr area a flood hazard area.
- General contractor shall notify all utility companies having underground utilities on site or in right-of-way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

CONSTRUCTION SEQUENCE

- Install temporary erosion control silt fence & inlet protection in the specified locations.
- City inspection and signoff.
- Clearing & grubbing if applicable.
- Add additional soil erosion and sediment control as needed. In particular the CLSO requirement for stabilization within 14 days of temporary or permanent cessation of grading must be met and will be vigorously enforced by the City.
- Diak disturbed pervious areas to restore infiltration prior to topsoil placement and vegetation.
- Permanent site stabilization.
- City inspection.





FOR PERMIT/BID

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 APPROVED: JFV JOB NUMBER: 191388 0" = 1"
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NO.	DATE	BY	REVISION DESCRIPTION

HRGreen

ILLINOIS DESIGN FIRM # 184-001322
 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
 FAX: 815.385.1781 | HRGreen.com

McHenry County College

**McHENRY COUNTY COLLEGE
 PARKING LOT C IMPROVEMENTS
 CRYSTAL LAKE, ILLINOIS**

CIVIL SITEWORK
EROSION CONTROL DETAILS

SHEET NO.
C-06

GENERAL SITE-WORK:

- Pre-Construction meeting shall be conducted with City Staff and all Contractors prior to commencing any grading or underground utility construction activities (schedule meeting with the Community Development Department at 815-356-3605).
- 24-hour Emergency contact numbers shall be provided to City Staff at the Pre-Construction meeting.
- Working hours shall be limited to the hours of 7:00 a.m. and 7:00 p.m. on weekdays only (except in cases of emergency). Non-emergency work on weekends or holidays is not permitted per City Code except under written permission from the City Engineer. The owner is responsible for the City Inspector cost of overtime inspection beyond the normal eight (8) hour day, including weekends and holidays.
- Public/private streets shall be kept free of dirt and debris with regular cleaning, sweeping, and scraping conducted by the Contractor. Junk and debris shall not be allowed to accumulate, blow, or scatter onto streets or adjacent properties.
- JULIE shall be contacted for utility locations on-site and in the adjacent rights-of-way.
- Contractor shall provide and maintain fencing, barricades, traffic control signs, and other safeguarding measures during the course of all work to protect the public from the construction operations.
- Maintain access to adjacent streets during construction. No closing of streets unless approval is first obtained from the agency with jurisdiction (City of Crystal Lake, McHenry County Department of Transportation, Illinois Department of Transportation, etc).
- Any damage to public right-of-way, public utilities, streets, curb, etc. shall be repaired/replaced as soon as possible and as directed by the City Engineer.
- The contractor shall give the City of Crystal Lake, Illinois Department of Transportation, and any other governmental agency having jurisdiction, at least two (2) working days notice excluding Saturday and Sunday prior to the initiation of any phase of construction. Contractor shall immediately notify if construction has ceased and renew the two (2) working day notification thereafter.
- The Contractor shall be responsible for obtaining all required permits for construction prior to commencement along or across existing streets or highways. The Contractor shall make arrangements for the proper crossing, shoring and other protection of all roadways before construction begins.

GRADING:

- The grading and construction of the site improvements shall not cause ponding of storm sewer water. All areas adjacent to these improvements shall be graded to allow positive drainage.
- The proposed grading elevations shown on the plans are finished grade. A minimum of six (6) inches of topsoil to be placed before finished grade elevations are achieved.
- Embankment material within parkway and open space areas shall be compacted to a minimum of ninety percent (90%) of maximum density in accordance with ASTM Specification D-1557 (modified proctor method), or to such other density as may be determined appropriate by the soils engineer.
- All subgrade material shall have a minimum CBR (California Bearing Ratio) of 3.0 as determined by the soils engineer, or base replacement and pavement design revisions shall be provided which are adequate to obtain equivalent pavement strength.
- Proposed pavement areas, building pads, driveways and sidewalks and yard/open space areas shall be excavated or filled to plus or minus 0.1 foot of design subgrade elevations by the Contractor.
- Any borrow pit locations shall be identified by the Contractor on a copy of the approved site plans and forwarded to the Engineering Division at least 24-hours prior to excavation. Provide backfill compaction reports from a geotechnical engineer and as-built plans to the Engineering Division for any borrow pit areas.
- Backfill shall be monitored by a geotechnical engineer on-site with compaction reports forwarded to the Engineering Division for review.
- Water truck shall be on-site at all times during mass-grading operations and be available as needed for the purposes of dust control or at the request of City Staff.
- Use of City fire hydrants is not allowed unless approved (separate from this permit) by the Public Works Department and a hydrant meter and RPZ is obtained from the City of Crystal Lake Water Division (815-356-3814). Only the City of Crystal Lake Water Division may operate valves and hydrants.

Revised:
1, 06/12/2015
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Drawing Name
STANDARD NOTES AND SPECIFICATIONS

Drawing Number
GE-02a
Date: 01/30/15
Drawn Checked
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City of Crystal Lake
ILLINOIS

TOPSOIL STOCKPILING:

- Location of any on-site topsoil stockpiles shall be identified on the approved plans with silt fence installed around the perimeter of the stockpile.
- Topsoil stockpiled for future use shall be relatively free from large roots, sticks, weeds, brush, stones larger than one (1) inch diameter, or other litter and waste products including other extraneous materials not conducive to plant growth.
- Topsoil shall be stockpiled in sequence to eliminate any re-handling or double movements by the Contractor. Failure to properly sequence the stockpiling operations shall not constitute a claim for additional compensation. No material shall be stockpiled in front yards, in utility easements, or in the right-of-way lines.
- If a stockpile is to remain in place for more than (14) calendar days, it is required that the stockpile meet the requirements as outlined in section 565 of the City Code.

EROSION CONTROL:

- All specified erosion control measures shall be installed and maintained per the requirements of the Crystal Lake Stormwater Ordinance in accordance with the active NPDES permit.
- All slopes 4:1 or steeper shall be sodded or blanketed immediately after mass earthwork.
- All overland flow routes to be stabilized by sod or blanket.
- Erosion control measures to be inspected and approved by City Engineering Division prior to additional work on site.
- Continuous monitoring of erosion control measures is required. Maintain records of weekly reports per the City of Crystal Lake Stormwater Ordinance.
- The Contractor shall implement any additional erosion control measures deemed necessary by the City per the standards of the City of Crystal Lake Stormwater Ordinance.
- All storm sewer catch basins, sumps and/or retention basins provided are to be cleaned at the end of construction of the project prior to final acceptance. Cleaning may also be required during the course of the construction of the project if it is determined that the silt and debris traps are not properly functioning and their performance is impacted.
- Rip-rap material RR 2 (6") - RR4 (16") shall be in accordance with Article 281 and grouted in place according to Article 601 of the IDOT Standard Specifications.
- Projects of 1 Acre or greater must obtain an NPDES permit prior to commencement of any construction activity.

UNDERGROUND UTILITY:

- The Contractor shall coordinate water main, water service, sanitary and storm sewer inspections and testing with the Community Development at least 24 hours in advance.
- All main line sanitary shall be cleaned and televised (provide DVD to the City's Engineering Division).
- All manhole or valve covers shall be imprinted "City of Crystal Lake Sanitary", or "City of Crystal Lake Storm", or "City of Crystal Lake Water" as directed by the City.
- Reference the latest edition of the Standard Specifications for Water and Sewer Main Construction in Illinois.
- Existing manholes to be circular cored and booted.

Revised:
1, 06/12/2015
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Drawing Name
STANDARD NOTES AND SPECIFICATIONS

Drawing Number
GE-02b
Date: 01/30/15
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DD AW
City of Crystal Lake
ILLINOIS

WATER MAIN:

- Water main shall be Ductile Iron or Molecularly Oriented Polyvinyl Chloride (PVCO).
a) Ductile Iron water main shall be Class 52 conforming to ANSI/AWWA C151/A21.51-09.
b) Gaskets and cast iron fittings shall conform to ANSI/AWWA C111/A21.11 and ANSI/AWWA C110/A21.10 respectively.
c) PVCO - See City Detail UW-12 and UW-13.
- Thrust blocking or Mega-Lug or pre-approved equal shall be installed on water mains at all bends, tees, elbows, etc. except as noted below.
- Thrust blocks not permitted with 45 degree vertical bends in water main (these shall be restrained with Mega-Lug or pre-approved equal).
- When specified, ductile iron pipe shall be encased in polyethylene and shall conform with ANSI/AWWA C105/A21.10-10 and ASTM A674-10.
- Minimum cover from finished grade to top of water main shall be six (6) feet; Maximum cover shall be eight (8) feet.
- Water Main Taps: An Illinois licensed plumber is required for any water main tap.
- All water mains shall be subjected to a pressure test and a separate leakage test at system pressure for 24 hours by the Contractor. Hydrostatic pressure test and leakage test shall be based on 125 PSI for two (2) hours. Water mains shall be chlorinated in accordance with the Standard Specifications.
- The Underground Contractor shall consider incidental to the contract any chlorination and testing of existing water main where connections to and conclusion of such mains is indicated on the drawing.

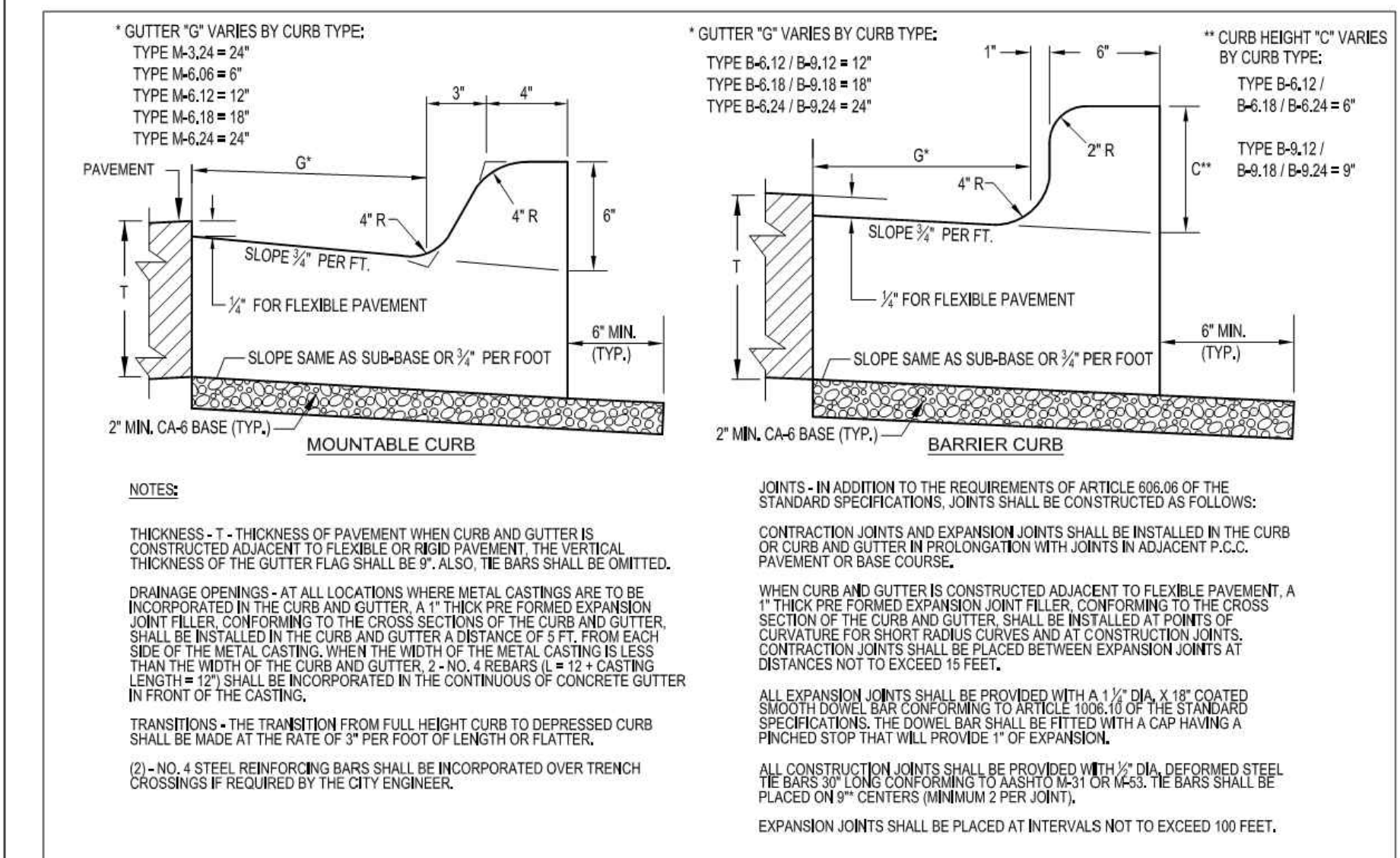
PAVING:

- All subgrades and bases shall be proof-rolled and approved by the Engineering Division prior to base or binder installation.
- Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus of plan elevation.
- The Paving Contractor shall ensure that the subgrade has been properly prepared and that the finished top of subgrade elevation has been graded within the tolerances allowed in these specifications. Unless the Paving Contractor advises the owner and engineer in writing prior to the grading for base course construction, it is understood that the Contractor has approved and accepts responsibility for the subgrade.
- For the purpose of providing handicap accessibility and complying with the American Disability Act and City Standards, curbs shall be depressed at locations where public walks or pedestrian paths intersect curb lines at street intersections and other locations as directed.
- 1/2 inch thick preformed fiber expansion joints with two (2) No. 4 plain round steel dowel bars shall be installed at designated intervals and at all P.C., P.T., curb returns and at the end of each pour. Alternate ends of the dowel bars shall be grouted and fitted with metal expansion tubes.
- 1/2 inch thick fiber expansion joints shall be used in every case where the sidewalk coincides with the curb and gutter. Contraction joints shall be saw cut at designated intervals in the curb. The cost of these joints shall be considered as incidental to the cost of the contract.
- All poured in place concrete curb and gutter shall incorporate two (2) No. 4 reinforcing bars installed wherever the curb and gutter crosses utility service lines, the cost of which shall be considered incidental to the cost of concrete curb and gutter.
- Sidewalks (where required) shall be of the thickness and dimensions as shown in the construction plans. All sidewalk concrete shall be a minimum of 6.1 bag mix (or IDOT class SI concrete) and shall develop a minimum of 3,500 psi compressive strength at fourteen (14) days. Contraction joints shall be set at five (5) foot centers, and one-half inch (1/2 inch) preformed fiber expansion joints at fifty (50) foot centers and where the sidewalk meets the curb or another sidewalk, or at the end of each pour. All sidewalks constructed over utility trenches and/or abutting driveway aprons shall be reinforced with three (3) No. 4 reinforcing bars (10 foot minimum length).

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Drawing Name
STANDARD NOTES AND SPECIFICATIONS

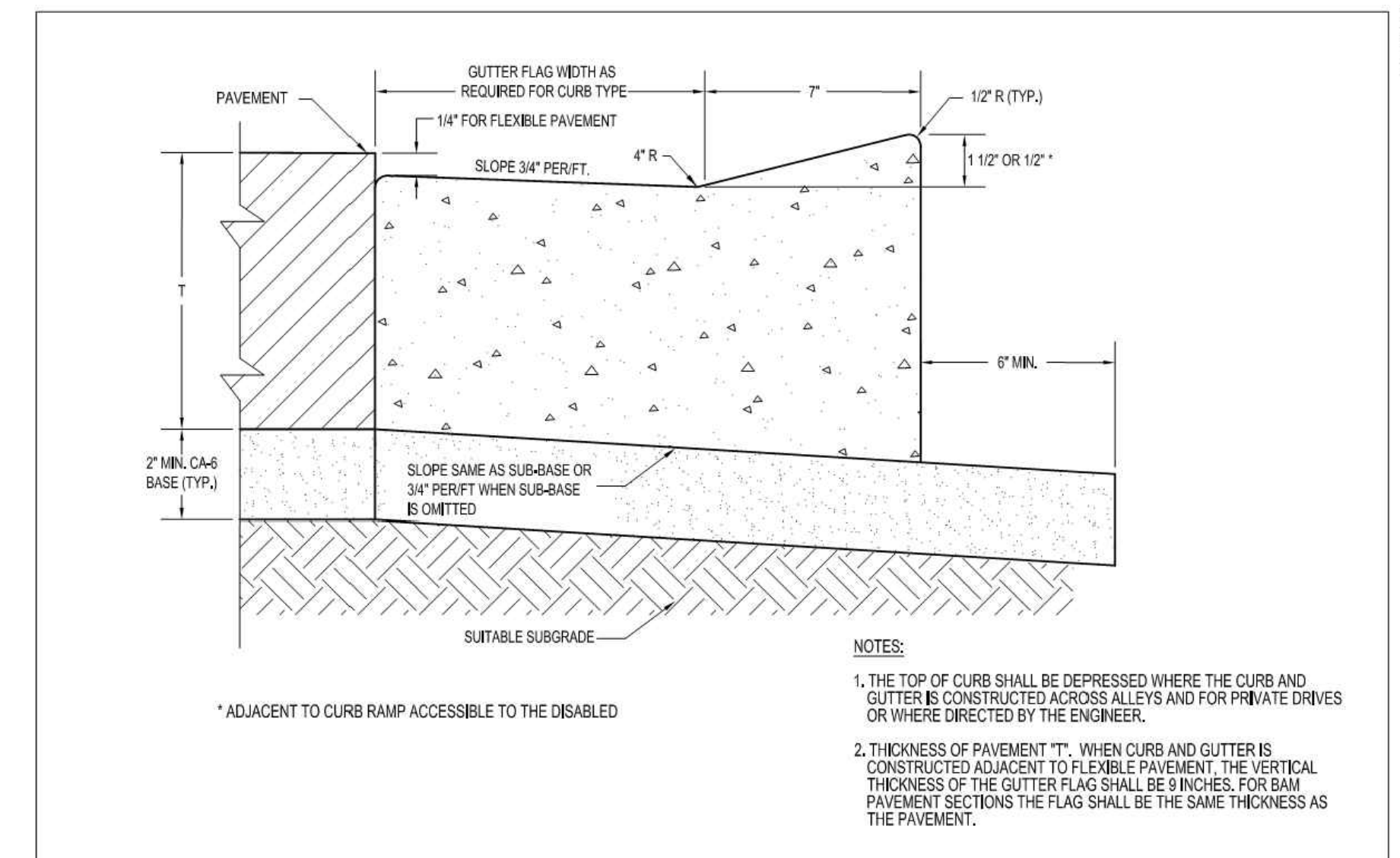
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Date: 01/30/15
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City of Crystal Lake
ILLINOIS



Revised:
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Drawing Name
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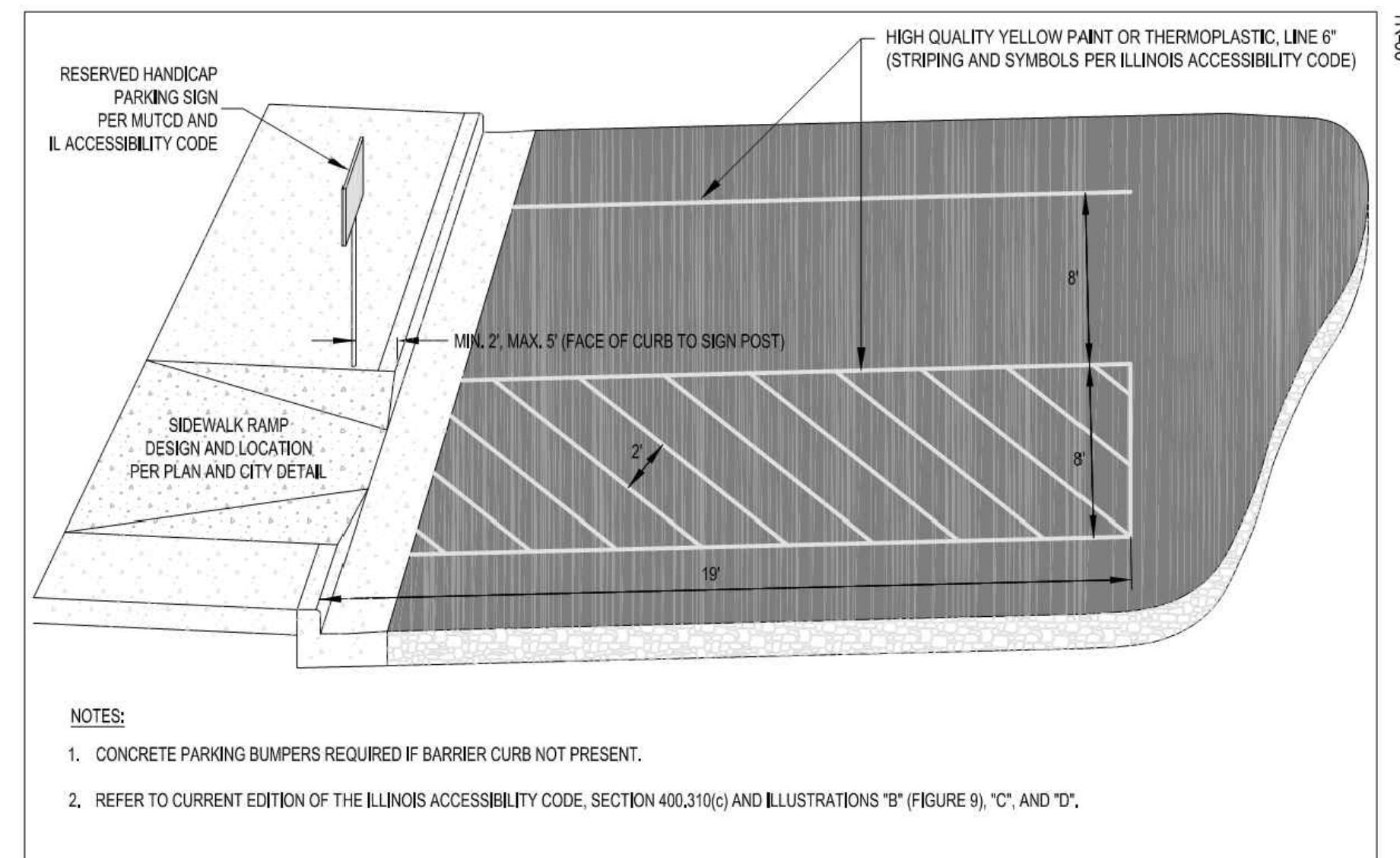
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Drawn Checked
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City of Crystal Lake
ILLINOIS



Revised:
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Drawing Name
DEPRESSED CURB: DETAIL

Drawing Number
RD-04b
Date: 01/30/15
Drawn Checked
DD AW
City of Crystal Lake
ILLINOIS



Revised:
1, 06/12/2015
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Drawing Name
TYPICAL HANDICAP ACCESSIBLE PARKING STALL

Drawing Number
TR-06
Date: 06/01/2007
Drawn Checked
EM AW
City of Crystal Lake
ILLINOIS

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APPROVED: JFV
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McHENRY, ILLINOIS 60050
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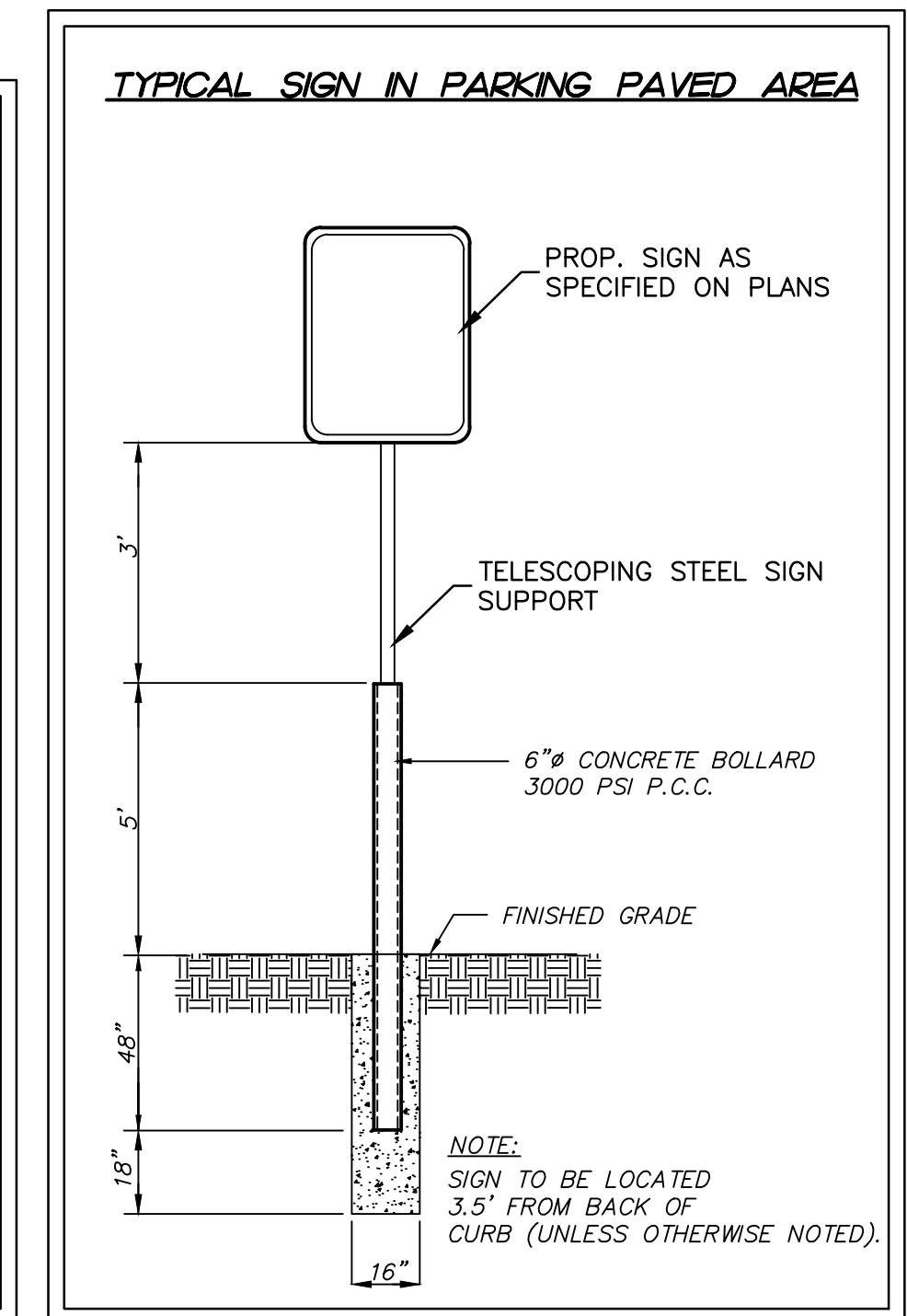
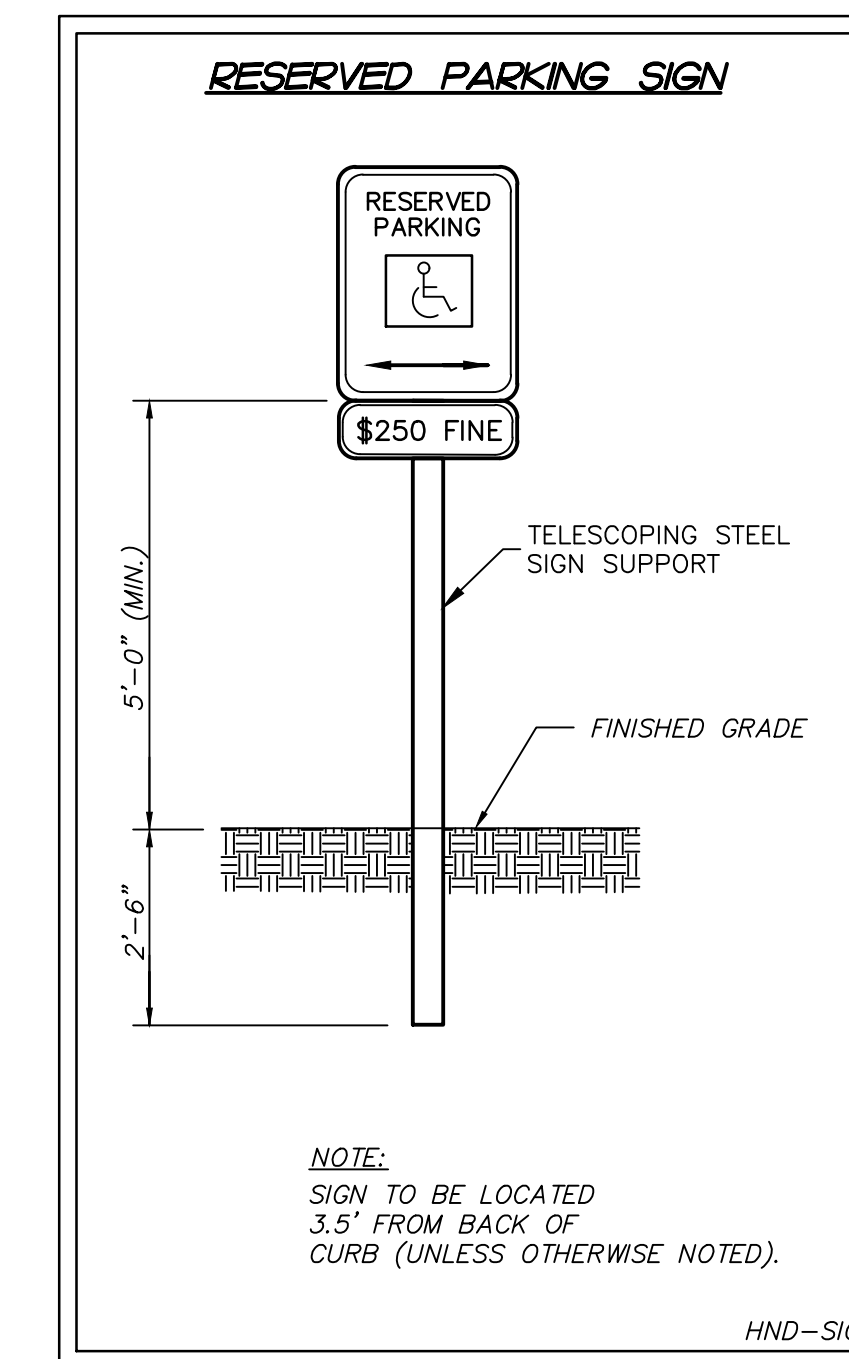
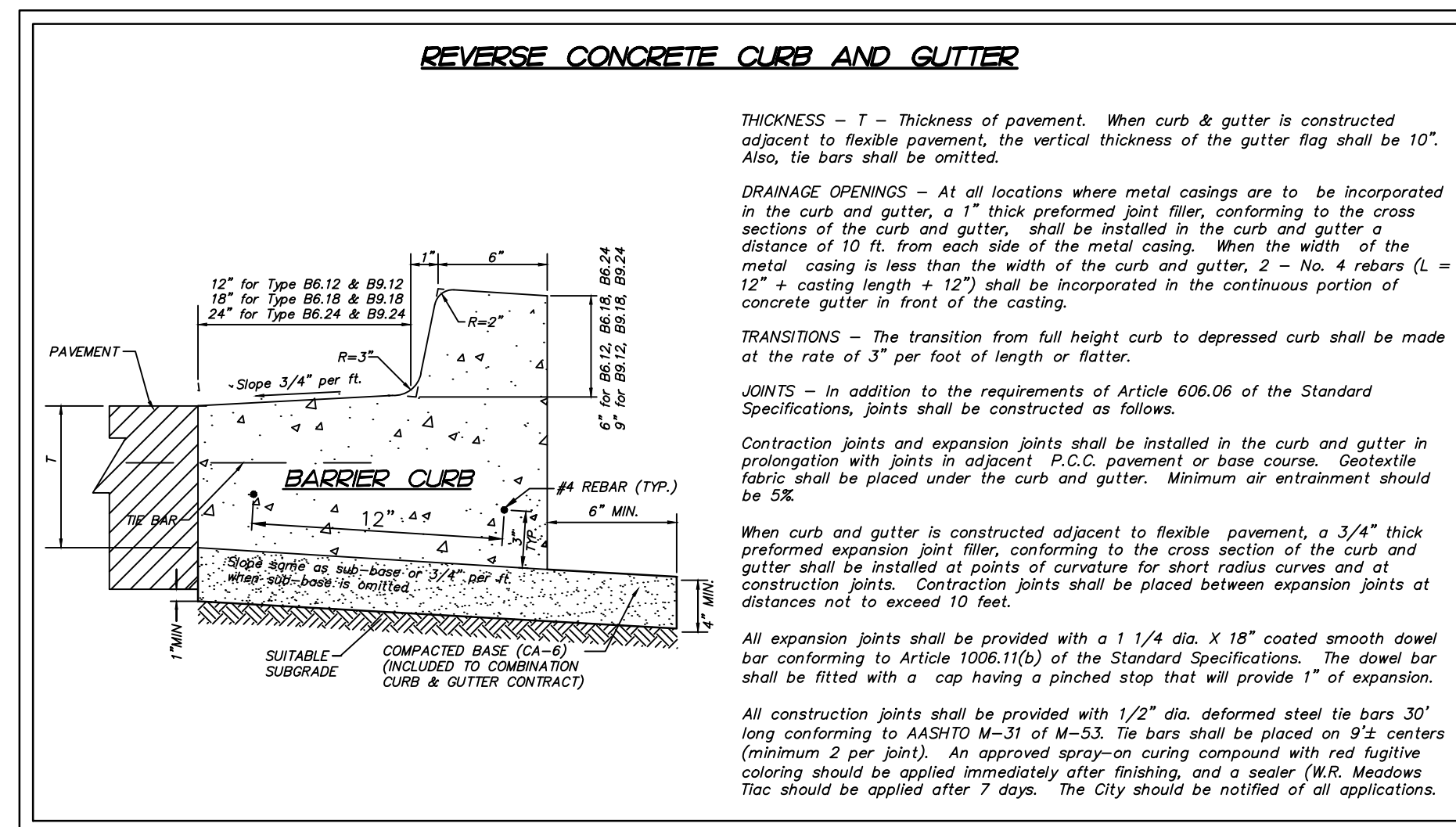
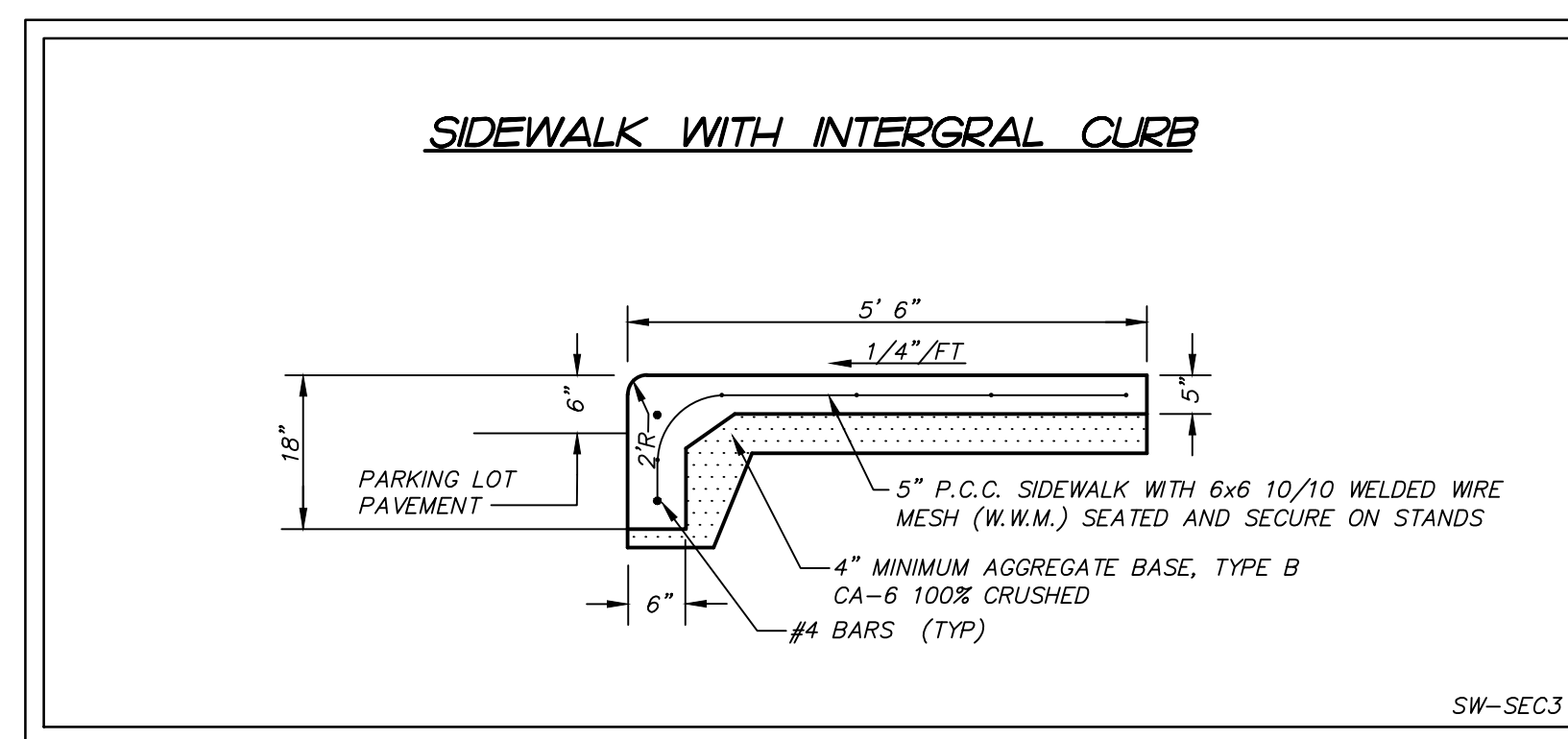
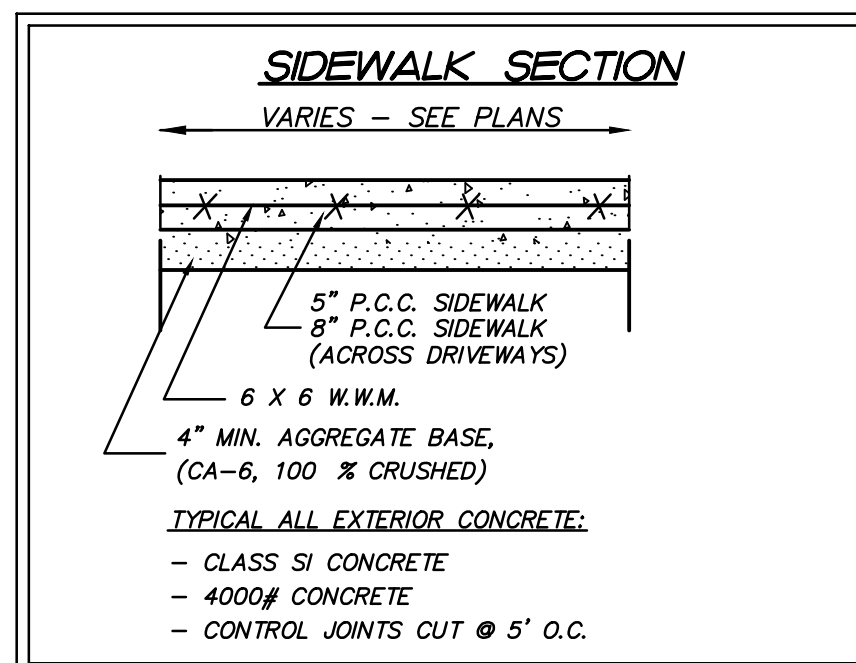
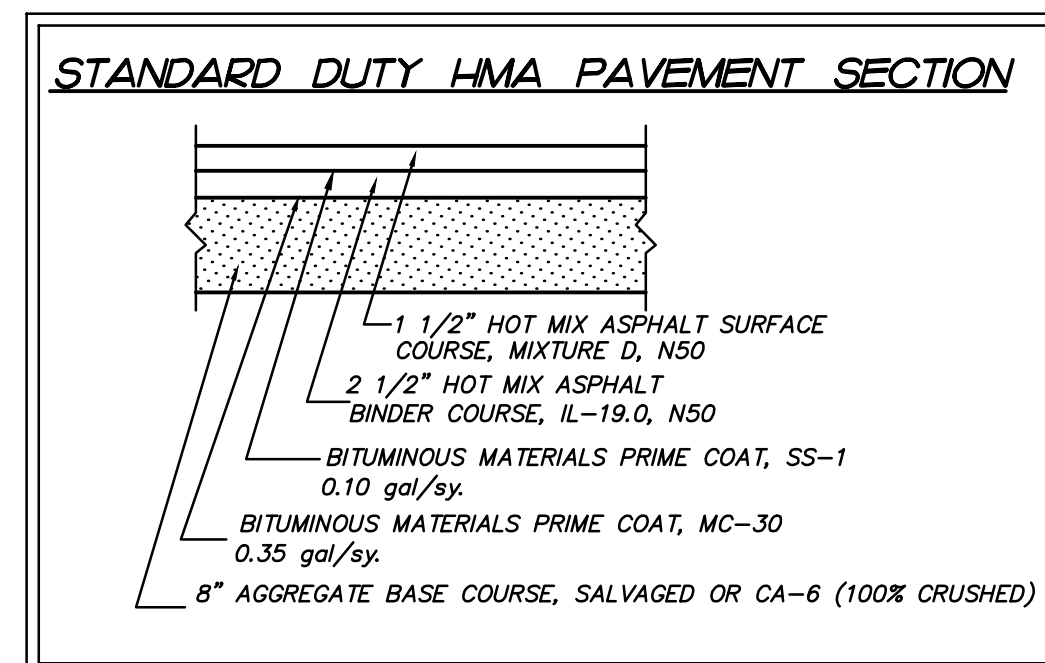
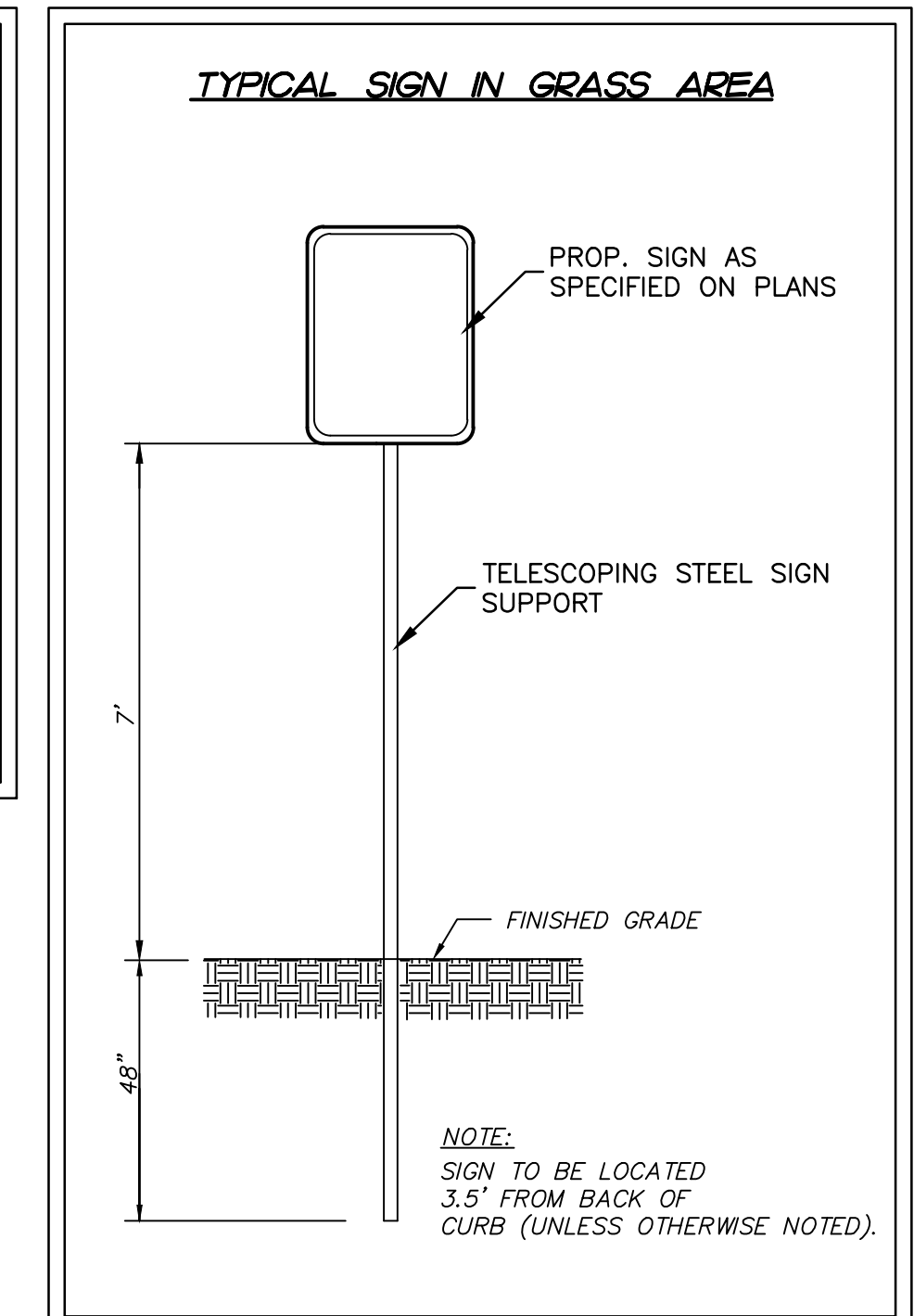
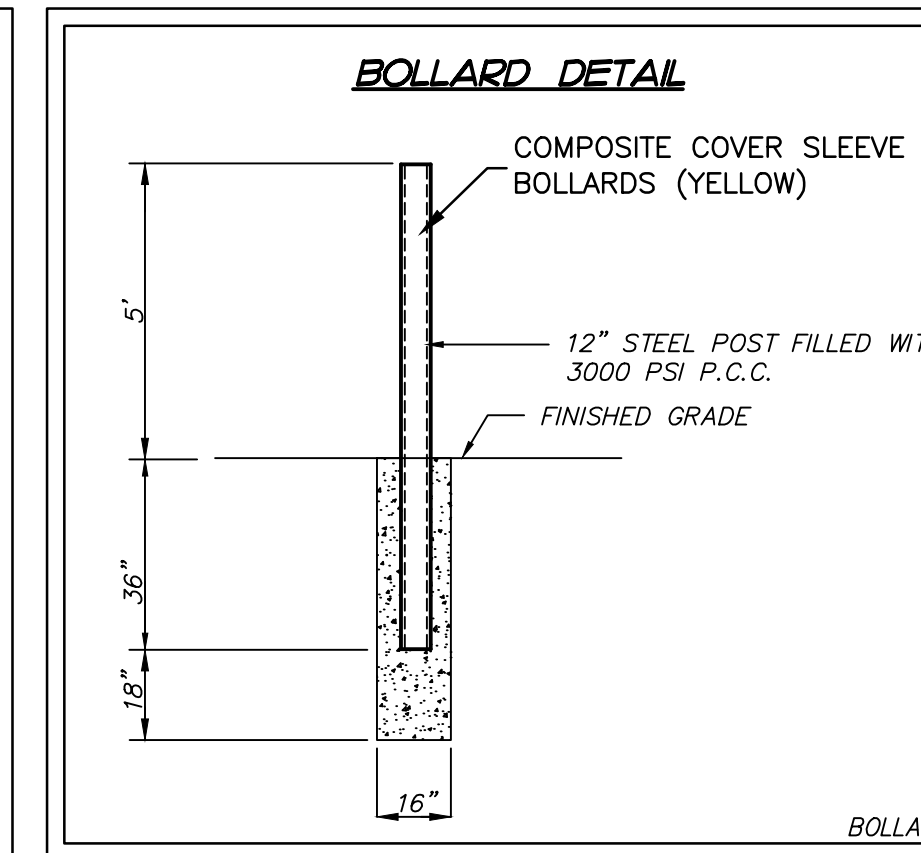
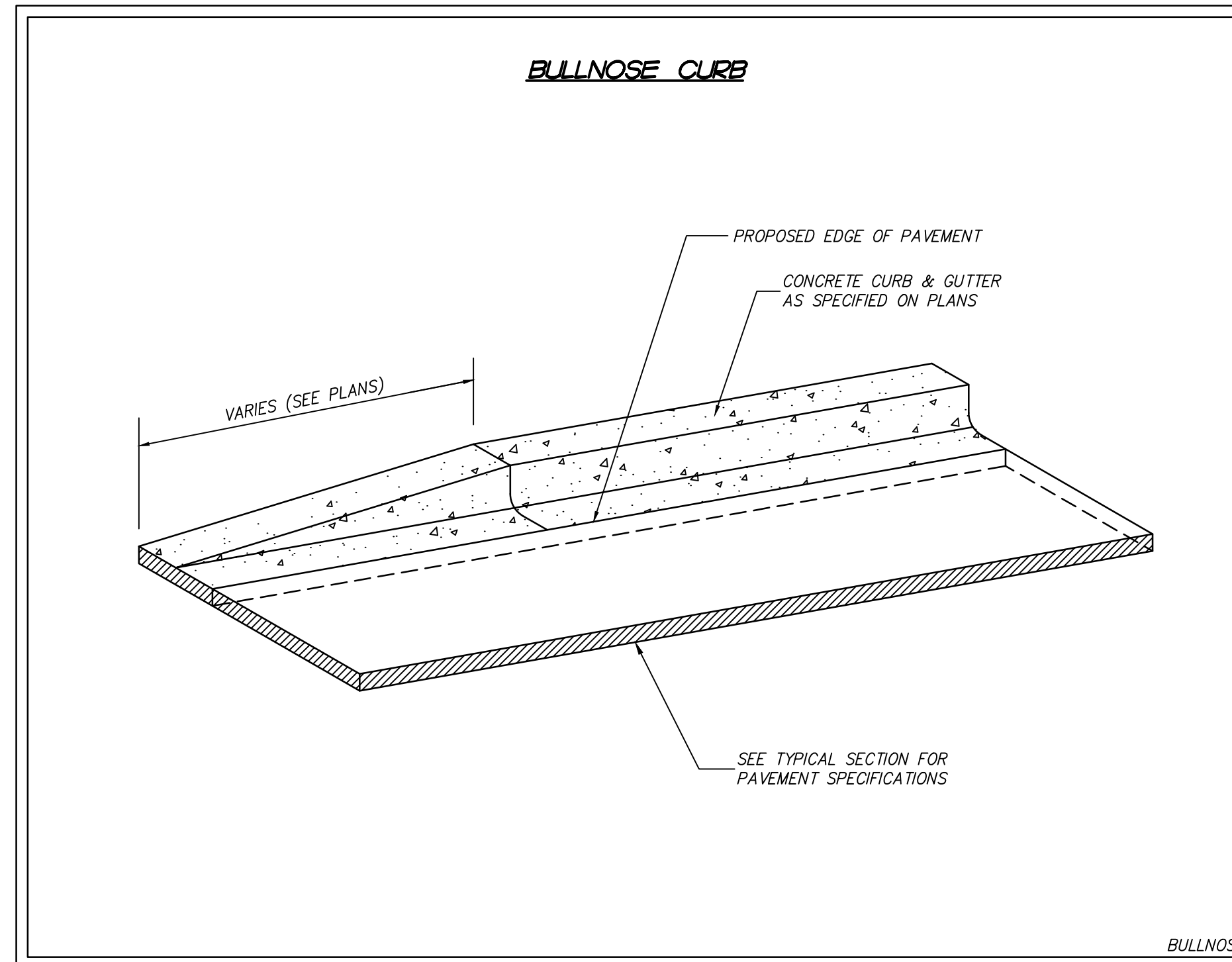
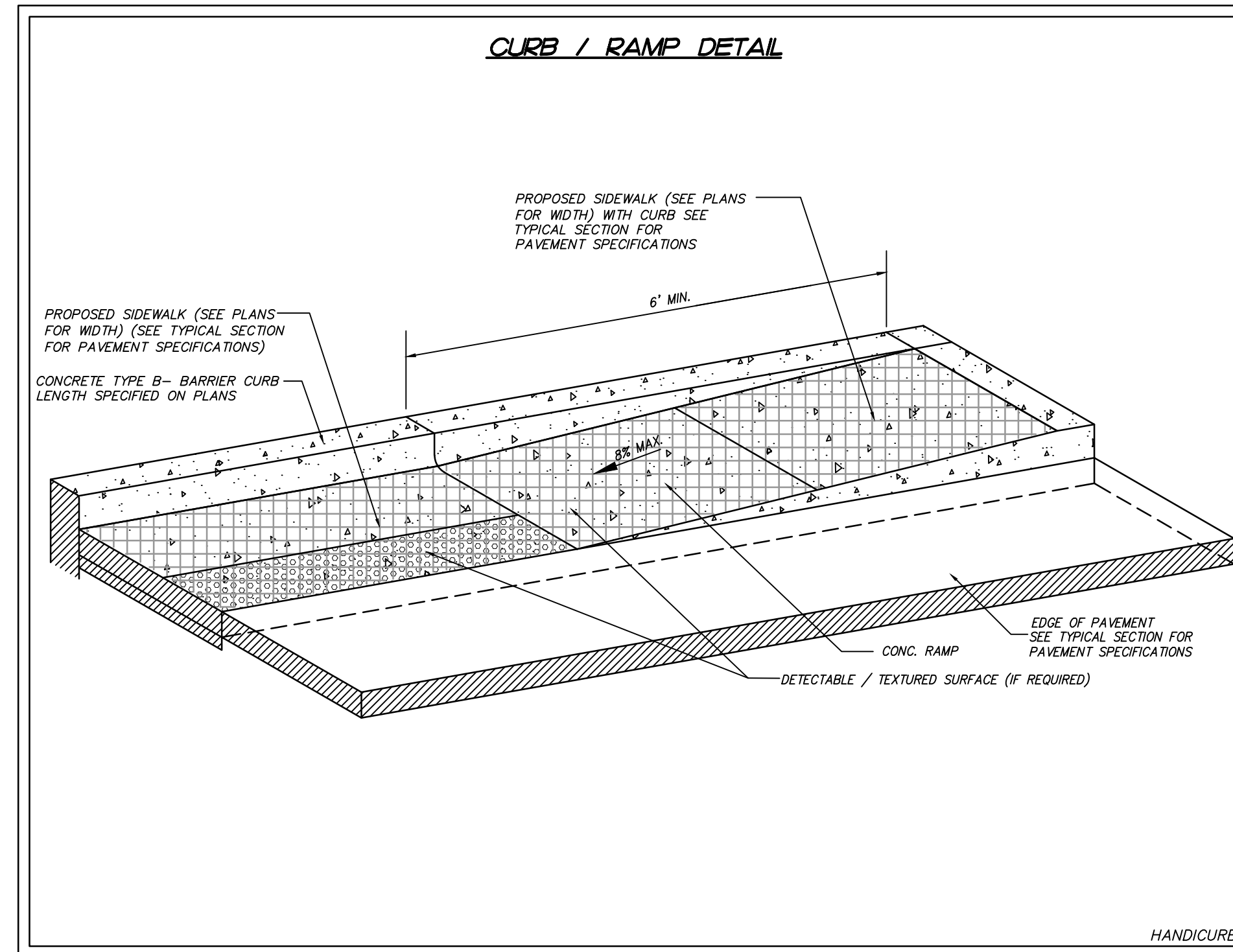
McHenry County College

**McHENRY COUNTY COLLEGE
PARKING LOT C IMPROVEMENTS
CRYSTAL LAKE, ILLINOIS**

CIVIL SITEWORK
STANDARD CONSTRUCTION DETAILS

SHEET NO.
C-07

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 McHENRY, ILLINOIS 60050
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PARKING LOT C IMPROVEMENTS
 CRYSTAL LAKE, ILLINOIS

CIVIL SITEWORK
STANDARD CONSTRUCTION DETAILS

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C-08