

PROJECT:

BLOOM
ELEMENTARY SCHOOL

Site Paving Improvement Project

OWNER:



501 7th STREET
ROCKFORD, IL 61104

ISSUANCE:

05.22.17
Issued for Bid & Permit

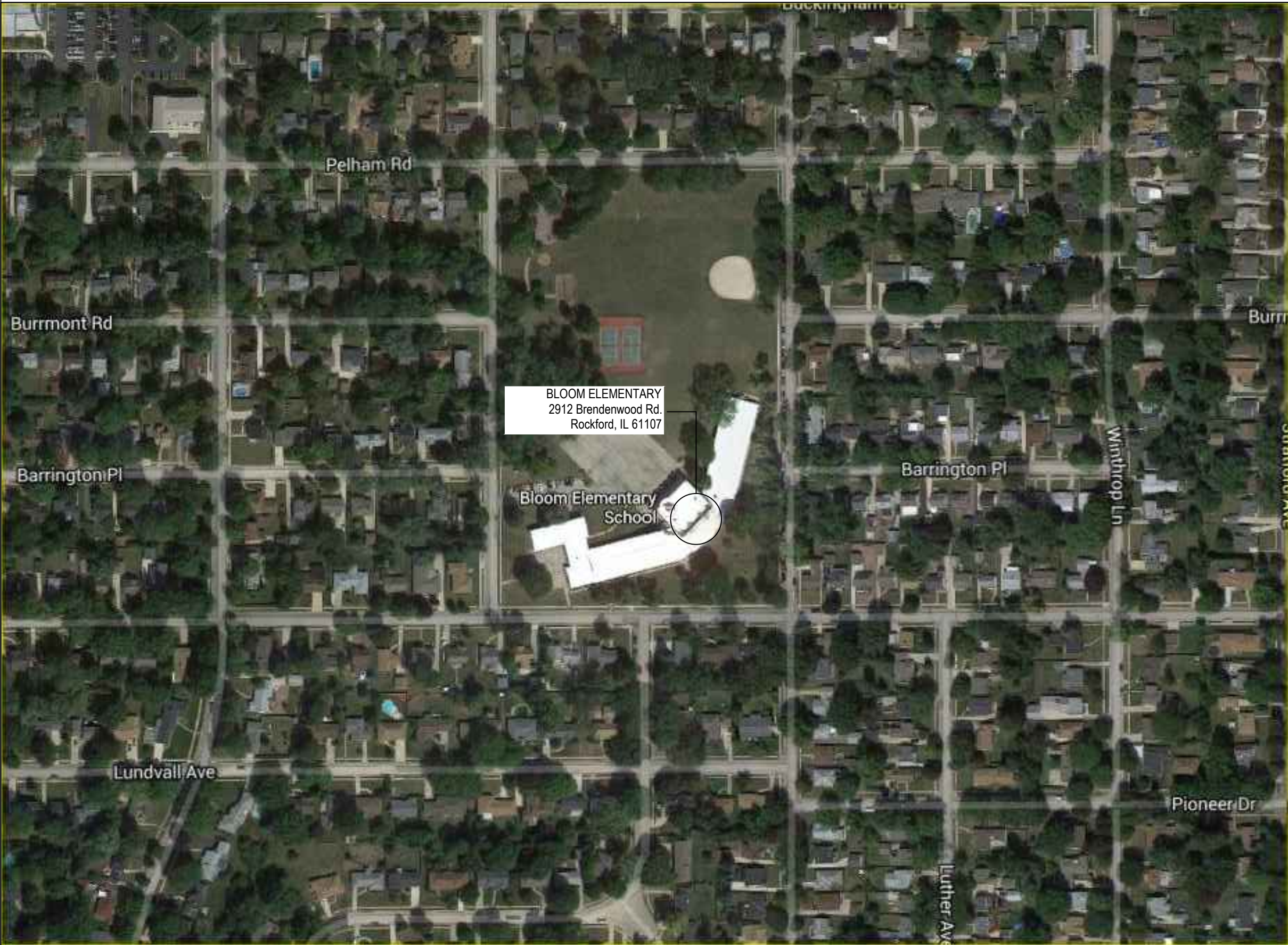
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Bloom Elementary School Location Map

N.T.S.

NO.	DATE	DESCRIPTION	ISSUANCE
1	05.22.17	Issue for Bid & Permit	

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PROFESSIONAL SEAL
EXPIRATION DATE

DATE	____
DRAWN	____
CHECKED	____
APPROVED	____

BLOOM ELEMENTARY SCHOOL
ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS

SHEET NO.
C01

HAGNEY JOB NO. C1822
ARC DESIGN JOB NO. 15113
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EARTHWORK NOTES

- Unsuitable Materials:

Assume that if unsuitable materials are encountered and the replacement of these materials is required, this situation shall be handled as follows:

 - The site contractor shall notify the general contractor immediately. The owner or owner's representative, prior to the undercutting being completed, must be notified of any additional undercutting. The quantities must be verified by the owner or owner's representative as the additional material is being undercut.
 - If approved by the owner or owner's representative, these materials shall be removed and replaced with compacted granular materials and compacted in accordance to required standards. The cost of this work shall be an extra to the contract, with the cost being adjusted by change order.
 - If the site contractor is furnishing any off-site materials, a representative sample of such materials shall be furnished to the general contractor's approved testing agency to determine a proctor.
 - These materials shall be placed as homogeneously as possible to facilitate accurate compaction and moisture testing.
- Definition for materials
 - "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.
 - Topsoil shall be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, or clay loam). Sand content shall generally be less than 70% by weight, and clay content shall generally be less than 35% by weight. Organic soils, such as peat or muck, shall not be used as topsoil.
 - Topsoil shall be relatively free from large roots, weeds, brash, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
 - Topsoil pH shall be between 5.0 and 8.0. topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.
 - "Existing on-site material" is defined as material of such a quality that the specified compaction can be met without any additional work other than that of deflection with a roller. The excavation and drying of this material will not need to be done prior to compaction.
 - "Existing on-site material" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.
 - "Unsuitable material" is defined as material that:
 - Cannot be utilized as "topsoil", (organic) for landscape areas.
 - Cannot be utilized as "engineered fill", regardless of moisture content and/or does not structurally meet the standards of the project owner's engineer for "engineered" materials.
 - These materials can be defined as natural materials or materials from "demolition" and/or excavated areas; i.e., they are materials that would not be suitable for "engineered fill".
 - "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.
 - "Trench backfill" shall be used for any materials used for the purposes of backfilling any trench and/or an off-estate requiring backfilling. Referring to the section titled "standards for fill areas" for determine acceptable materials and procedures.
 - The term "stripping" or "strip" as used herein shall be defined as the removal of all "organic materials" from a given area, and the term "organic material" is defined as material having an organic content over 8% based on ASTM test method d-2974 or as defined by the owner's engineer.
- Standards for cut areas:
 - A "cut area" is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation, instead excavation or "cutting" is required to achieve design subgrade elevation. ("Engineered fill" being defined as any material being "offsite material".)
 - In "cut areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:
 - Item 1: For exposed building or parking lot subgrades consisting primarily of granular soils the exposed subgrade should be compacted/densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.
 - Item 2: For exposed building or parking lot subgrades consisting primarily of cohesive soils, the exposed subgrades should be proof-rolled with a fully-loaded six-wheel truck having a minimum gross weight of 25 tons. the maximum allowable deflection under the specified equipment shall be 1/2".
 - In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in item 1, above, the deflection will be greater than 1/2" are observed for the following types of cohesive subgrades, as outlined in item 2, above, additional corrective measures will be required. These measures could include, but not necessarily be limited to, scarification, moisture conditioning, and re-compaction; undercutting & replacement with engineered fill and chemical stabilization, etc., with crushed stone (with or without geotextiles); chemical stabilization, etc.
 - It shall be considered as part of the scope of these documents and thus part of this contractor's responsibility to perform scarification and allow for drying of the subgrade per Illinois dot standards (scarify a 16" depth for 3 days). If this does not work then additional drying measures shall be an extra to the contract.
 - Any proposed corrective measures by the contractor should be reviewed by the owner's engineer and the project architect. In the event that in the opinion of the owner's engineer and/or the project architect proof rolling is not a good indicator of the subgrade stability an alternative method shall be specified by the owner's engineer and/or the project architect.
- Standards for fill areas:
 - A "fill area" is defined as any area where material is required to adjust the existing elevation to a proposed subgrade elevation. These areas will require the installation of "engineered fill" to achieve design subgrade elevation. "Engineered fill" shall be defined as either "granular" or "soil" material having their origin for either the construction site and/or "offsite material". Materials having their origin from the construction site is referred to as "borrow". The composition and the compaction standards of the engineered fill for this project will be specified by owner's engineer and the project architect.
 - In "fill areas" borrow materials are allowed to be utilized as engineered fill the site contractor shall compact the borrow to the specified compaction.
 - Compaction standards (for engineered fill and back filled areas)
 - Item 1: prior to placement of fill in areas to be exposed subgrade should be observed by a representative of the owner's engineer to evaluate that adequate stripping has been performed. Additionally, the proof rolling or compaction procedures outlined in the "standards for cut areas" section of this cpi should be performed. It is typical practice to proof roll, and densify if necessary, exposed subgrades prior to filling. If soft or unstable subgrades are observed, these areas should be stabilized or undercut. minimum compaction standards are based upon a percentage of the fill or backfill material's maximum modified proctor dry density (ASTM specification d-557). All engineered subgrades should meet the following minimum compaction:
 - Areas under foundations bases:
 - A.1.A. 95% standard proctor for all fill placed below foundation base elevation in the building area.
 - A.1.B. areas under foot slabs and above foundations/footings
 - A.1.C. 95% standard proctor for all fill placed more than 12 inches below final grade for support of floor slabs and above foundation base elevation in the building area.
 - A.1.D. 95% standard proctor for all fill placed within 12 inches of design subgrade below slabs. The granular fill under the floor slab should be compacted to at least 98% standard proctor.
 - Areas under pavement sections:
 - A.2.A. 95% standard proctor for all fill placed more than 12 inches below pavement sections and 95% standard proctor for the top 12 inches of the subgrade.
 - Landscape areas:
 - A.3.A. 90% standard proctor for all fill placed in landscape areas. These areas should be brought to grade with "topsoil" to a depth of 12 inches in areas to be seeded, 6 inches in areas to be sodded, and 24 inches for all interior curbed landscape islands.
 - Base course portion of pavement sections:
 - A.4.A. 95% standard proctor for all base course materials that are part of a "pavement section".
 - Place all backfill and fill materials in layers that are not more than 9" in loose depth, before compacting, moisture or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum density of the area.
- Finish grading:
 - The term "finish grading" as used herein shall be defined as that condition that areas not receiving a finish product such as parking areas, driveways, roadways, sidewalks, etc. finish graded areas would generally be those areas receiving "landscaping" such as seed, sod, trees, bushes, mulch, etc.
 - The site contractor is responsible for "finish grading" all areas within the perimeter of the "construction site". The definition of the "construction site" is the area encompassing all disturbed areas that were disturbed as a result of the construction process relating to the general contract which this site contract was part of.

GENERAL PAVING NOTES

- All pavement shall be constructed in accordance with the following:
 - Concrete pavement shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
 - Standards and requirements of the City of Rockford.
 - Additional details and requirements provided in the contract documents, including this plan set.
- All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 0.10 feet of design subgrade.
- The subgrade of pavement areas shall be free of all unsuitable material and shall be compacted to a minimum 95 per cent of Standard proctor density.
- The subgrade shall be proof rolled, inspected and approved by the [local agency] prior to placing the base material. Notify the engineer at least 48 hours prior to finished subgrade preparation.
- The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolling, placed topsoil to a minimum depth of 4 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
- The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
- The paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
- The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced IDOT standard specifications and the City of Rockford.
- Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the owner.
- Field quality control tests specified herein will be conducted by the owner's Independent Testing Laboratory (ITL) at no cost to the contractor. Any testing and inspection resulting from the requirements of necessary permits by the City of Rockford or the State of Illinois shall be at the contractor's expense. The contractor shall perform additional testing as considered necessary by the contractor for assurance of quality control. Retesting required as a result of failed initial tests shall be at the contractor's expense.
 - Field testing, frequency, and methods may vary as determined by and between the owner, the ITL and the City of Rockford.
 - Testing shall be performed on finished surface of each asphalt concrete course for smoothness, using 10' 0" straightedge applied parallel with, and at right angles to centerline of paved area. The following tolerances in 10 ft shall not be exceeded: Base Course Surface: 1/4-inch, Wearing Course Surface: 1/8-inch.
 - No ponding shall occur on paved surfaces. Refer to "General Notes" in this plan set.

ADDITIONAL CONCRETE PAVING NOTES

- Materials shall comply with the following standards of quality:
 - Portland Cement: ASTM C150 Type I, Normal ASTM C150 Type II, High-Early-Strength.
 - Fine Aggregate: ASTM C33, clean sand graded between #100 and #4 sieve limits.
 - Coarse Aggregate: ASTM C33, uncoated crushed stone or washed gravel.
 - Water: Potable and fit to drink.
 - Water-Reducing Admixture: ASTM C494 Type A (normal) or Type D (retarder).
 - Air Entraining Agent: ASTM C260.
 - Premoulded Fiber Strips: ASTM D994.
 - Curing Compound: ASTM C309, Type 2 (white, pigmented).
 - Reinforcement: ASTM A615, Grade 40.
- Physical characteristics shall comply with the following:
 - Strength: 4,000 PSI compressive strength in 28 days.
 - Mix: Minimum 6 bag mix.
 - Slump: Maximum 4".
 - Water to Cement Ratio: Shall not exceed 0.45 by weight.
 - Air Entrainment: 5%-8%.
- All curb and gutter and sidewalk shall be broom finished. All sidewalk shall have picture frame finish.
- Curing and protection of all concrete shall be in strict conformance with the provisions of Section 1020.13 of the Standard Specifications.
- All exterior walls and ramps shall be sealed using Hydrox 100 Seal.
- The curb and gutter shall have 1" thick premolded fiber expansion joints with 3/4" - diameter by 18-inches long plain round steel dowel bars at 100-foot intervals, at all PC's and PT's, and at all curb turns. Construction joints shall be constructed at 20-foot intervals. The cost of these joints shall be incidental to the curb and gutter. Curb joints and ties shall be constructed in accordance with IDOT standard 606001.

ADDITIONAL CONCRETE PAVING NOTES (CONT)

- All sidewalk, including curb ramps and steps shall be compliant with Local, State, and Federal requirements for accessibility.
- Depressed curb shall be provided for curb ramps and at driveway locations in accordance with IDOT standard 606001.
- Curb ramps shall be constructed in accordance with the IDOT standards. See corresponding standard(s) based on layout and application.
- Sidewalk shall be a minimum 6" thick through all driveway crossings.
- Concrete Pavement Joints shall comply with the following:
 - Construct expansion, weakened-plane contract (contraction), and construction joints straight with face perpendicular to concrete surface.
 - Provide joints at spacing of 15'-0" on center, maximum each way. Panels shall be kept as square as possible with the length to width ratio not exceeding 15:5% unless otherwise noted. construct contract joints for depth equal to at least 1/4 of the concrete thickness, as follows:
 - Form tooled joints in fresh concrete by grooving top with recommended tool and finishing edge with jointer.
 - Form sawed joints using powered saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut joints into hardened concrete as soon as surface will not be torn, abraded, or otherwise damaged by cutting action.
 - Contractor shall sawcut tank frame and island / canopy area to mid-depth within 24 hours of pour.
 - Sidewalk contraction joints shall not exceed corresponding width of sidewalk. 12" wide sidewalks shall have a longitudinal contraction joint along the center of the sidewalk and transverse contraction joints shall be spaced at 6' max.
 - A diamond edge saw blank shall be used for all required contraction and longitudinal pavement joints.
 - All sawcuts required shall be incidental to items for which direct payment is made.
- Construction joints: Place construction joints at end of placements and at locations where placement operations are stopped for period of more than 1/2 hour, except where such placements terminate at expansion joints. construct joints in accordance with idot specifications
- Transverse expansion joints: Locate expansion joints at maximum of 180'-0" on centers, maximum each way unless otherwise shown on the construction drawings. provide premolded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, sidewalks, and other fixed objects.
- Butt joints: For joints against existing pavement, place 16" long dowels eight inches into holes drilled into end of existing slab. epoxy dowels into holes with approved epoxy compound. place dowels prior to concrete placement for new concrete. dowel spacing to be 24" on center unless otherwise shown on construction drawings. saw joint and fill with joint sealer.
- Joint fillers: Extend joint fillers full-width and depth of joint, and not less than 1/2-inch or more than 1-inch below finished surface where joint sealer is indicated. furnish joint fillers in 1'-piece lengths for full width being placed, wherever possible. Where more than 1 length is required, install joint filler sections together.
- Joint sealants: All pavement joints shall be sealed with white or gray approved exterior pavement joint sealants and shall be installed in accordance with manufacturer's recommendations.

ADDITIONAL ASPHALT PAVING NOTES

- Weather Limitations:
 - Apply prime and tack coats when ambient or base surface temperature is above 40 F, and when temperature has been above 25 F for 12 hours immediately prior to application. Do not apply when base is wet, contains excess moisture, during rain, or when frozen.
 - Construct asphaltic concrete paving when ambient temperature is above 40 F.
 - Materials shall be of the following standard of quality:
 - Asphalt Cement: Comply with AASHTO M 226; Table 2 AC 10, AC 20, or AC 40, viscosity grade, depending on local mean annual air temperature in accordance with the following chart: Mean annual air temperature _____ 45 F or lower/AC 10; 45-100 F/AC 20; 100-110 F/AC 30; 110-120 F/AC 40. When the asphaltic cement will be placed against the vertical face of an existing pavement, _____ 45 F and 75 F AC 20, 60/70 pen. Mean annual air temperature _____ AC 40, 75 F or higher.
 - Prime Coat: Medium curing cut, back asphalt or asphalt penetrating primer coat consisting of either MC 30 or SS 1h.
 - Tack Coat: Emulsified asphalt; AASHTO M 140 or AASHTO M 208, SS 1h, CSS 1, or CSS 1h, diluted with 1 part water to 1 part emulsified asphalt.
 - Mineral Filler: Rock or slag dust, hydraulic cement, or other inert material complying with AASHTO M 17, if recommended by state highway department specifications.
 - Asphalt Aggregate Mixture: Unless otherwise noted on the Drawings, design mix shall have minimum stability based on 75, 100 Marshall compaction with AASHTO T 245 of 1000 pounds with flow between 0.08 and 0.16 inches. The design mix shall be within sieve analysis and bitumen ranges specified below unless approved otherwise by the engineer prior to placement.
 - Mix design shall comply with the following:
 - Base Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Surface Course, Mix "C", N50.
 - Base Course (Wearing) Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Binder Course, A-1, C25, N50.
 - Remove loose material from compacted base material surface immediately before applying prime coat.
 - Establish and maintain required limits and elevations.
 - Cover the surfaces of curbs, gutters, manholes and other structures on which the asphaltic concrete mixture will be placed, with a thin, uniform coat of liquid asphalt. Where the asphaltic concrete will be placed against the vertical face of an existing pavement, clean the vertical face to remove foreign substances and apply a coating of liquid asphalt at a rate of approximately 0.25 gallons per square yard.
 - Prime Coat:
 - Apply to base material surfaces at least 24 hours in advance.
 - Take necessary precaution of 0.25 gal per sq. yd over compacted base material. Apply to penetrate and seal, but not flood surface.
 - Cure and dry as long as necessary to attain penetration of compacted base and evaporation of volatile substances.
 - Apply to contact surfaces of previously constructed asphaltic concrete base courses or Portland cement concrete and surfaces abutting or projecting into asphaltic concrete or into asphaltic concrete pavement.
 - Apply tack coat to existing base course to assist base course to adhere to asphalt base course. Apply emulsified asphalt tack coat between each lift or layer of full depth asphaltic concrete and sand asphalt bases and on surface of bases where asphaltic concrete paving will be constructed.
 - Apply at minimum rate of 0.05 gal per sq. yd of surface.
 - Allow drying until at proper condition to receive paving.
 - Place asphaltic concrete mixture on completed compacted subgrade surface, spread, and strike off. Spread mixture at following minimum ambient temperatures:
 - Between 40 and 50 F: Mixture temperature: 285 F
 - Between 50 and 60 F: Mixture temperature: 280 F
 - Higher than 60 F: Mixture temperature: 275 F
 - Whenever possible, spread pavement by finishing machine; however, inaccessible or irregular areas may be placed by hand methods. Spread hot mixture uniformly to required depth with hot shovels and rakes. After spreading, carefully smooth hot mixture to remove segregated coarse and fine materials. Rakes and lutes used for hand spreading shall be type designed for use on asphalt mixtures. Do not dump loads faster that they can be properly spread. Workers shall not stand on loose mixture while spreading.
 - Apply successive lifts of asphaltic concrete in transverse directions with surface course placed parallel to flow of traffic. Place asphaltic paving in typical strips not less than 10'-0" wide. Asphaltic concrete pavement, including base and surface course, shall be placed in two or more equal lifts. Each lift shall be from 1 to 3 inches thick.
 - Joints: Make joints between old and new pavements, or between successive days and work in manner that will provide continuous bond between adjoining work. Construction joints shall have same texture, density, and smoothness as other sections of asphaltic concrete course. Clean contact surfaces of joints and apply tack coat.
 - After being spread, mixture shall be compacted by rolling as soon as it will bear the weight of rollers without displacement. Number, weight, types of rollers, and sequences of rolling operations shall be such that the required density and surface are consistently attained while the mixture is in workable condition.
 - Compact mixture with hot steel tandem or vibrating compactors in areas inaccessible to rollers.
 - Breakdown Rolling: Perform breakdown or initial rolling immediately following rolling of joints and outside edge. Check surface after breakdown rolling and repair displaced areas by loosening and filling with hot material.
 - Second Rolling: Follow breakdown rolling as soon as possible while material is hot. Continue second rolling until mixture has been thoroughly compacted as follows:
 - Average Density: 96 percent of reference laboratory density according ASTM D1556, but not less than 94 percent nor greater than 100 percent.
 - Finish Rolling: Perform finish rolling while mixture is still warm enough for removal of roller marks. Continue rolling until roller marks are eliminated and surface has attained maximum density.
 - Patching: Remove and replace paving areas mixed with foreign materials and defective areas. Cut out such areas and fill with fresh, hot asphaltic concrete. Compact by rolling to maximum surface density and smoothness.
 - Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked. Any marked or marked finish surfaces shall be repaired or smoothed.
- Asphalt paving joints shall conform to the following requirements:
 - Place each asphaltic paving layer as continuous as possible to keep the number of joints to a minimum. Create joints between old and new pavement, between successive days and work, and where the mixture has become cold (less than 140 degrees F). Make these joints in such a manner as to create a continuous bond between the old and new pavement.
 - Remove all foreign materials, plants, roots, stones, sticks, and debris from site. Do not bury or fill with foreign material.
 - Offset joint of successive courses by at least 6 inches.
 - Transverse Joints: If placing of material is discontinued or if material in place becomes cold, make a joint running perpendicular to the direction traveled by the paver. Before placement continues, trim the edge of the previously placed pavement to a straight line perpendicular to the paver and cut back to expose an even vertical surface for the full thickness of the course. When placement continues, position the paver on the transverse joint so that sufficient hot mixture will be spread in order to create a joint rolling that conforms to the required smoothness. If the temperature of the previously placed pavement material drops below 140 degrees F before paving is resumed, give the exposed vertical face a thin coat of liquid asphalt just before paving is continued.
 - Longitudinal Joints: Coat longitudinal joints that are not completed before the previously laid mixture has cooled to a temperature below 140 degrees F, with liquid asphalt just before paving is continued.

PAVEMENT MARKING NOTES

- Apply two (2) coats for all pavement markings.
- Material description: a fast drying, high riding marking paint for concrete, brick and bituminous surface, this product has been designed for painting centerlines and edges of highways, city crosswalks and stop zones, parking lots, traffic aisles, etc. Do not apply to temperatures below 50 F.
- Paint properties:
 - Pigment 4991 yellow - lead-free organic yellow min. 4.8% titanium dioxide min. 2.8 % calcium carbonate max. 53%.
 - the percentage pigment by weight of the finished product shall not be less than 50% no more than 54%. (ASTM d3723)
- Vehicle: the non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer and shall not be less than 44% by weight.
- Organic volatiles: the finished paint shall contain less than 150 grams of volatile organic matter per liter of total paint. (ASTM d3960)
- Total solids: the finished paint shall not be less than 73% total non-volatile by weight. (ASTM d3269)
- Grind: the paint shall have a grind of not less than 3 on a hegan grind gauge. (ASTM d210)
- Viscosity: the consistency of the paint shall not be less than 83 nor more than 98 kreb units at 77° F. (ASTM d562)
- Freeze / Thaw stability: the paint shall show no coagulation or change in consistency greater than 10 kreb units after 3 cycles. (ASTM d2243)
- Heat stability: the paint shall show no coagulation, discoloration, or change in consistency greater than 10 kreb units when tested in accordance with federal specification tt-p-1952d, section 4.5.8.
- Storage stability: after 30 days storage in a three quarters filled, closed container, the paint shall show no caking, skinning, livering, curdling, biological growth, or hard setting; the viscosity shall not change more than 5 kreb units from the original sample.
- No pick-up time: the no pick-up time shall be less than 10 minutes. The test shall follow the requirements of ASTM d711 with a wet film thickness of 0.38 mm (15 mils).
- Dry through time: the paint, when applied to a non-absorbent substrate at a wet film thickness of 0.38 mm (15 mils) and placed in a temperature chamber controlled at 30 +/-2% r.h. and 75 +/-1.4° F shall have a dry through time not greater than 15 minutes when tested in accordance with ASTM d1640.

STORM SEWER NOTES

- Storm sewer shall be constructed in accordance with the following:
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), fifth edition dated May 1996, and all revisions and supplements thereto.
 - Concrete pavement shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
 - Standards and requirements of City of Rockford.
 - Additional details and requirements provided in the contract documents, including this plan set.
 - Where the aforementioned specifications conflict, the more stringent criteria shall be implemented.
 - Material Specifications: All storm sewer system elements shall conform to the following specifications:
 - Sewer Pipe. All storm sewer pipe shall be reinforced concrete pipe unless otherwise specifically noted in this plan set. a. Sump pump service connection and storm sewer extension (4" and 6") -ABS sewer pipe or PVC sewer pipe ASTM D2751, SDR35, or ASTM D3034, SDR35, respectively.
 - Concrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.
 - Reinforced concrete pipe (12" diameter and larger), minimum Class 3, ASTM C506.
 - Reinforced concrete arch culvert pipe-double line reinforcement, minimum Class 3, ASTM C506.
 - Reinforced concrete elliptical culvert pipe-minimum Class HE-III or VE-III, ASTM C507.
 - PVC underdrain pipe (4" and 6")-ASTM D2729, SDR35.
 - Galvanized corrugated steel culvert pipe AASHTO M246, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).
 - Sewer Pipe Joints:
 - ABS pipe-ASTM C443.
 - PVC pipe-ASTM D3212, push-on type, except underdrain pipe which shall have solvent welded joints.
 - Reinforced steps-Neenah No. R-18142 ("O" ring).
 - Reinforced arch or elliptical pipe-ASTM C877.
 - Casing Pipes. Steel pipe-ASTM A102, 3/8" minimum thickness.
 - Manholes and Catch Basins:
 - Precast reinforced concrete-ASTM C478.
 - Size:
 - For sewer eighteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.
 - For sewer twenty-one to thirty-six inches in diameter, manhole shall have a sixty inch inside diameter.
 - For sewer greater than thirty-six inches in diameter, manhole shall have an offset riser pipe of forty-eight inches inside diameter.
 - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
 - Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
 - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
 - Precast reinforced concrete-ASTM C478 and ASTM C443.
 - Size: Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
 - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
 - Only one pipe connection is allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
 - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
 - Casting: Greater than 80 PSI (552 kg/cm²) concrete.
 - Manhole frame and cover-Use area inlet as listed below unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be Neenah No. R-1772-C embossed "STORM SEWER".
 - Manhole steps: Neenah No. R-2579.
 - Six inch curb and gutter inlet-Neenah No. R-3502-B.
 - Three inch curb and gutter inlet-Neenah No. R-3501-P.
 - Yard inlet-Neenah No. R-2579.
 - Parking lot inlet-Neenah No. R-2077-C.
 - Crushed Granular Bedding (Exhibit No. 202). Crushed gravel or crushed stone course aggregate-ASTM C33, Size No. 57.
- All end sections 24" and greater shall come equipped with trash grate and toe block in compliance with Illinois Department of Transportation standard.
- Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying process.
- Install in accordance with manufacturer's recommendations.
- Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
- Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appearances placed at the required location as indicated on Drawings.
- All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation F-A-6 or approved equal. (Grade 8 or Grade 9).
- Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by ASTM T180.
- Do not backfill trenches until required tests are performed and utility systems comply and are accepted by applicable governing authorities.
- Backfill trenches to contours and elevations shown on the drawings.

SEEDING REQUIREMENTS

- GROWING MEDIA
 - IMPORTED TOPSOIL: NATURAL, FERTILE AGRICULTURAL SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FROM WELL DRAINED SITE FREE FROM PLANT ROOTS IN FROZEN OR FROTHY CONDITION, LESS THAN 6% ORGANIC MATTER, AND PH VALUE OF 5.9 TO 7.0. FREE FROM SUBSOIL, SLAG, CLAY, STONES, LUMPS, LIVE PLANTS, ROOTS, STICKS, CRABGRASS, COUGH GRASS, NOXIOUS WEEDS AND FOREIGN MATTER.
 - EXISTING TOPSOIL: NATURAL, FERTILE AGRICULTURAL SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, NOT IN FROZEN OR MUDDY CONDITION, CONTAINING NOT LESS THAN 6% ORGANIC MATTER, AND CORRECTED TO PH VALUE OF 5.9 TO 7.0. FREE FROM SUBSOIL, SLAG, CLAY, STONES, LUMPS, LIVE PLANTS, ROOTS, STICKS, CRABGRASS, COUGH GRASS, NOXIOUS WEEDS AND FOREIGN MATTER.
- FERTILIZER: COMPLY WITH IDOT SPECIFICATION, ARTICLE 1081.08.
- PERCENTAGES OF EACH NUTRIENT BY WEIGHT SHALL BE 10% NITROGEN, 6% OF AVAILABLE PHOSPHORIC ACID AND 4% WATER SOLUBLE POTASH, OR ANY OTHER MIXTURE HAVING AN ANALYSIS FOR THESE NUTRIENTS IN THE RATIO OF 5-3-2.
- AGRICULTURE GROUND LIMESTONE: COMPLY WITH IDOT SPECIFICATION ARTICLE 1081.07.
- SEED, COMPLY WITH THE IDOT SPECIFICATION, REFERENCE ARTICLES
- SEEDS: 1081.04
- SEEDING MIXTURES: 250.07 CLASS 1.
- ACCESSORIES
- MULCHING MATERIAL: SEE HYDRAULICALLY-APPLIED EROSION CONTROL FOR MULCHING.
- DELIVERY, STORAGE & HANDLING
 - DELIVER GRASS SEED IN ORIGINAL CONTAINERS SHOWING ANALYSIS OF SEED MIXTURE, PERCENTAGE OF PURE SEED, YEAR OF PRODUCTION, NET WEIGHT, DATE OF PACKAGING AND LOCATION OF PACKAGING. DAMAGED PACKAGES ARE NOT ACCEPTABLE.
 - DELIVER FERTILIZER IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND MANUFACTURER'S NAME. DELIVER ALL PRODUCTS IN SUFFICIENT QUANTITY AND TIME TO MAINTAIN APPROVED CONSTRUCTION SCHEDULE, AS AMENDED.
 - STORE ALL PRODUCTS OFF THE GROUND, IN A DRY LOCATION, OUT OF WAY OF CONSTRUCTION OPERATIONS. PROVIDE PROTECTION TO PREVENT DAMAGE UNTIL INSTALLED.
 - FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR HANDLING.
- EXECUTION
 - PREPARATION. COMPLY WITH IDOT SPECIFICATIONS 250.01 THROUGH 250.07. EXAMINE EXISTING CONDITIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ALL CONDITIONS THAT WOULD IMPAIR PROPER PERFORMANCE OF THE WORK. CITY OF ROCKFORD IN WRITING, STATE OF WORK, OR BUREAU TO GIVE NOTIFICATIONS, CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. PROTECT EXISTING UNDERGROUND IMPROVEMENTS FROM DAMAGE.
 - REMOVE ALL FOREIGN MATERIALS, PLANTS, ROOTS, STONES, STICKS, AND DEBRIS FROM SITE. DO NOT BURY OR FILL WITH FOREIGN MATERIAL.
 - REMOVE CONTAMINATED SUBSOIL. CULTIVATE AREAS TO RECEIVE TOPSOIL TO DEPTH OF 3 INCHES. REPEAT CULTIVATION IN AREAS WHERE EQUIPMENT HAS COMPACTED SUBGRADE.
 - FERTILIZING. APPLY FERTILIZER AT A BULK RATE OF 10 LB. PER 1,000 SQ. FT. APPLY AGRICULTURAL GROUND LIMESTONE AT A RATE OF 2 TONS PER ACRE. DO NOT APPLY GRASS SEED AND FERTILIZER AT SAME TIME, IN SAME MACHINE. LIGHTLY WATER TO AID BREAKDOWN OF FERTILIZER AND TO PROVIDE MOIST SOIL FOR SEED.
 - SEEDING. SEED ALL AREAS DISTURBED BY CONSTRUCTION. APPLY SEED AT A RATE OF 150 LB PER ACRE EVENLY IN TWO PERPENDICULAR INTERSECTING DIRECTIONS. RAKE IN LIGHTLY. DO NOT SOW IMMEDIATELY FOLLOWING RAIN, WHEN GROUND IS TOO DRY OR DURING WINDY PERIODS. LIGHTLY WATER SLOWLY SO THAT SURFACE OF SOIL WILL NOT EXCEEDING 112 LB. APPLY WATER WITH FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN SOWN.
 - MULCHING. SEE HYDRAULICALLY-APPLIED EROSION CONTROL FOR MULCHING.
- MAINTENANCE
 - MAINTAIN SURFACES; SUPPLY ADDITIONAL TOPSOIL IN LOW AREAS, INCLUDING AREAS AFFECTED BY EROSION.
 - WATER TO ENSURE UNIFORM SEED GERMINATION AND TO KEEP SURFACE OF SOIL DAMP.
 - APPLY WATER SLOWLY SO THAT SURFACE OF SOIL WILL NOT RUDELY AND CRUST.
 - REPLANT DAMAGED AREAS SHOWING ROOT GROWTH FAILURE, DETEIORATION, BARE OR THIN SPOTS, AND ERODED AREAS.
 - MAINTENANCE PERIOD SHALL EXTEND TO THE LONGEST DURATION AS REPRESENTED FROM THE TIME OF SEEDING TO ONE OF THE FOLLOWING THREE TERMINATION SCENARIOS: 28 DAYS, TO THE SECOND MOWING OF ESTABLISHED GRASS, OR TO FINAL ACCEPTANCE OF SEEDING AND RESTORATION UPON COMPLETION OF THE PROJECT BY THE OWNER.

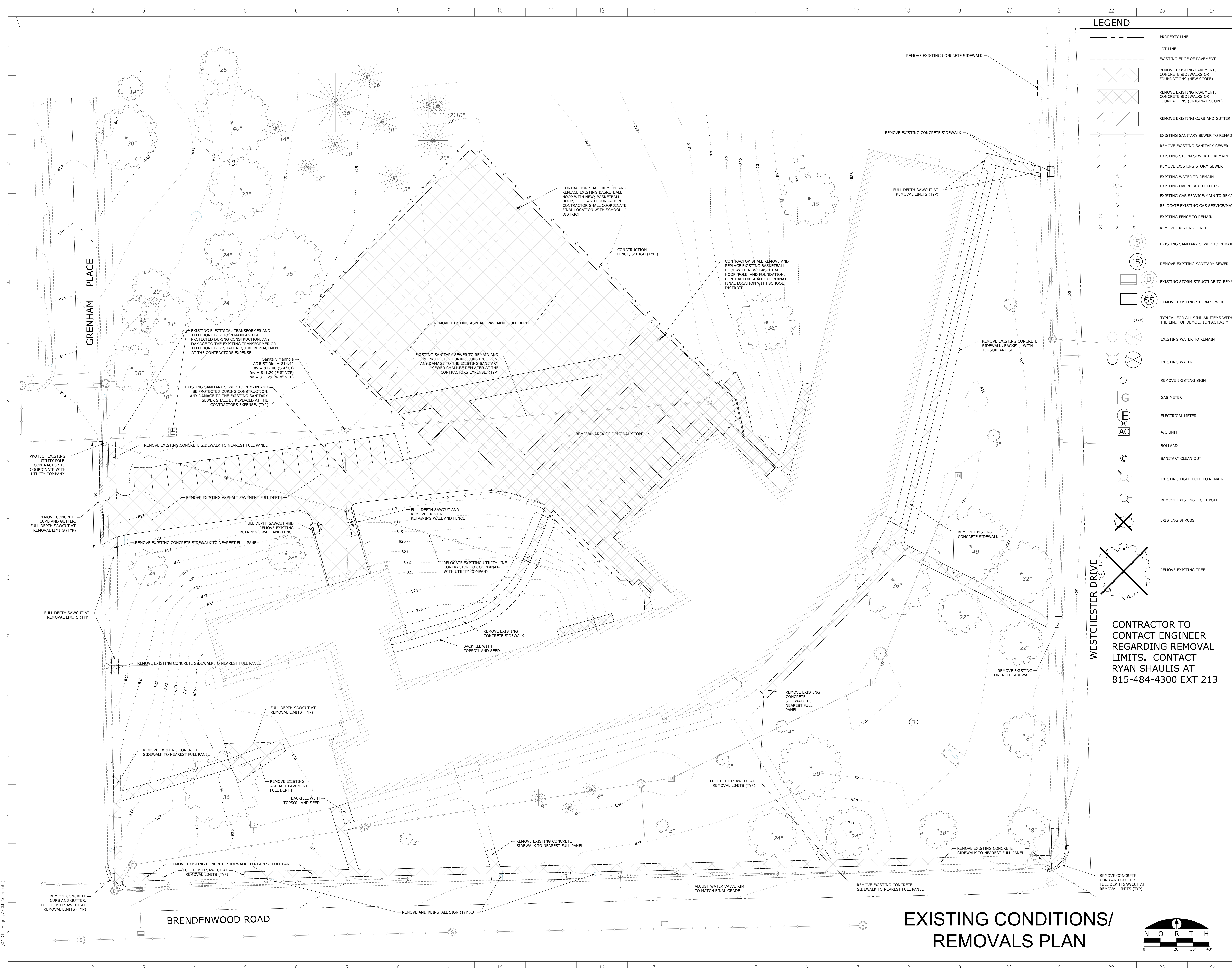
GENERAL NOTES

- The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site.
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the architect, and the architect-engineer from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer or the architect-engineer is not intended to constitute review of the adequacy of the contractors safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and IDOT.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the owner's Description of Work, City of Rockford, the State of Illinois, and this plan set.
- RPS 205 must be notified at least two (2) working days prior to the commencement or resumption of any work.
- The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
- All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrently with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
- All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all times.
- The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- All elevations are on NAVD 88 datum.
- Parking areas designated as A.D.A. and all sidewalk shall be compliant with state and local A.D.A. requirements.
- Tactile warning plates per IDOT specifications shall be placed at all locations where sidewalk that is to be replaced intersects public roads and at locations indicated in this plan set.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, telephone, gas, and electric, if any. The 3.U.L.L.E. number is 1-800-892-0123.
- Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
- The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the Village with record drawings in a digital format compatible with AutoCAD Release 2013 upon completion of his work.
- Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the plans.
- Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur. Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpaved areas.
- The contractor shall notify the Independent Testing Lab (ITL) 24 hr prior to testing being required. Testing Service Corp. (TSC) is the approved ITL for this project. The contact at TSC is Jeff Martin and he can be reached at 815.394.2562 or jmartin@tsccorp.com.

HYDRAULICALLY-APPLIED EROSION CONTROL

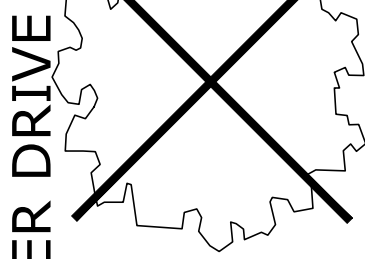
- GENERAL
- 1.01 SUMMARY
- A. THIS SECTION SPECIFIES A HYDRAULICALLY-APPLIED EROSION CONTROL PRACTICE COMPOSED OF LONG STRAND, THERMALLY REFINED (WITHIN A PRESSURE VESSEL) WOOD FIBERS THAT HAVE BEEN PRESSURE TREATED TO 80 - 85 PSI (552 - 586 kN) WITH STEAM AND HEAT TREATED FOR 15 MINUTES AT 380 - 444 DEGREES FAHRENHEIT (193 - 229 DEGREES CELSIUS). INTERLOCKING MAN-MADE FIBERS AND PERFORMANCE-ENHANCING ADDITIVES. THE FLEXTERA FLEXIBLE GROWTH MEDIUM (FGM) REQUIRES NO CURING PERIOD AND UPON APPLICATION FORMS THE AREA A CONTINUOUS MAT OF FIBER. THE FIBER MAT IS EROSION RESISTANT AND FLEXIBLE. EROSION RESISTANT BLANKET THAT ALLOWS FOR RAPID GERMINATION AND ACCELERATED PLANT GROWTH.
- 1.02 SUBMITTALS
- A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS. INCLUDE REQUIRED SUBSTRATE PREPARATION, LIST OF MATERIALS AND APPLICATION RATE.
- B. CERTIFICATIONS: MANUFACTURER SHALL SUBMIT A LETTER OF CERTIFICATION THAT THE PRODUCT MEETS OR EXCEEDS ALL PHYSICAL, PROPERTY, ENDURANCE, PERFORMANCE AND PACKAGING REQUIREMENTS. THE SALES REP MUST BE CPEC CERTIFIED AND PRODUCE THEIR CERTIFICATION NUMBER. THE SALES REPRESENTATIVE MUST HAVE SEVERAL YEARS EXPERIENCE WITH EROSION CONTROL AND MUST BE ON SITE DURING INSTALLATION TO APPROVE THE CONTRACTORS WORK.
- 1.03 DELIVERY, STORAGE AND HANDLING
- A. DELIVER MATERIALS AND PRODUCTS IN AND WEATHER-RESISTANT FACTORY LABELED PACKAGES. STORE AND HANDLE IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. PROTECT FROM DAMAGE, WEATHER, EXCESSIVE TEMPERATURES AND CONSTRUCTION OPERATIONS.
- PRODUCTS
- 1.01 ACCEPTABLE SUPPLIER
- A. ERO-TEX 866 437 6839
- 2.02 MATERIALS
- A. THE MATRIX SHALL BE FLEXTERA AND CONFORM TO THE FOLLOWING PROPERTY VALUES WHEN UNIFORMLY APPLIED AT A RATE OF 3000 LBS POUNDS PER ACRE (3900 KILOGRAMS/HECTARE) UNDER LABORATORY CONDITIONS.
- | Property | Test Method | Req. Value (English) | Req. Value (SI) |
|---------------------|-------------|---------------------------------|------------------------------|
| Physical | | | |
| Max Per Unit Weight | ASTM D8686 | 11.5 sq/yd ² minimum | 396 g/m ² minimum |
| Thickness | ASTM D8686 | 0.18 inch minimum | 4 |

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PLOT SCALE: 1/8" = 1'-0"



LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING EDGE OF PAVEMENT
- REMOVE EXISTING PAVEMENT, CONCRETE SIDEWALKS OR FOUNDATIONS (NEW SCOPE)
- REMOVE EXISTING PAVEMENT, CONCRETE SIDEWALKS OR FOUNDATIONS (ORIGINAL SCOPE)
- REMOVE EXISTING CURB AND GUTTER
- EXISTING SANITARY SEWER TO REMAIN
- REMOVE EXISTING SANITARY SEWER
- EXISTING STORM SEWER TO REMAIN
- REMOVE EXISTING STORM SEWER
- EXISTING WATER TO REMAIN
- EXISTING OVERHEAD UTILITIES
- EXISTING GAS SERVICE/MAIN TO REMAIN
- RELOCATE EXISTING GAS SERVICE/MAIN
- EXISTING FENCE TO REMAIN
- REMOVE EXISTING FENCE
- EXISTING SANITARY SEWER TO REMAIN
- REMOVE EXISTING SANITARY SEWER
- EXISTING STORM STRUCTURE TO REMAIN
- REMOVE EXISTING STORM SEWER
- (TYP) TYPICAL FOR ALL SIMILAR ITEMS WITHIN THE LIMIT OF DEMOLITION ACTIVITY
- EXISTING WATER TO REMAIN
- EXISTING WATER
- REMOVE EXISTING SIGN
- GAS METER
- ELECTRICAL METER
- A/C UNIT
- BOLLARD
- SANITARY CLEAN OUT
- EXISTING LIGHT POLE TO REMAIN
- REMOVE EXISTING LIGHT POLE
- EXISTING SHRUBS
- REMOVE EXISTING TREE



CONTRACTOR TO CONTACT ENGINEER REGARDING REMOVAL LIMITS. CONTACT RYAN SHAULIS AT 815-484-4300 EXT 213

EXISTING CONDITIONS/
REMOVALS PLAN

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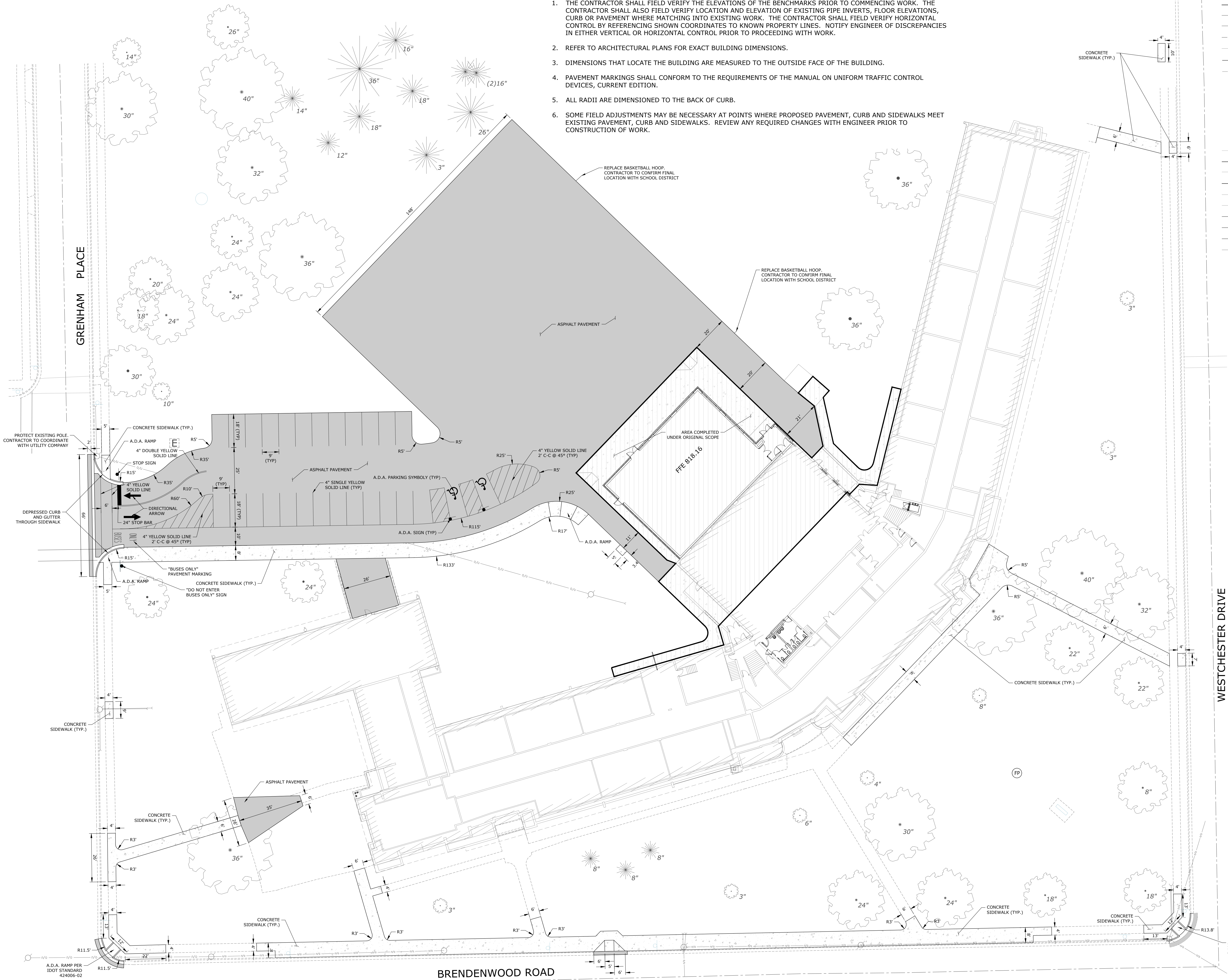
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LAYOUT NOTES

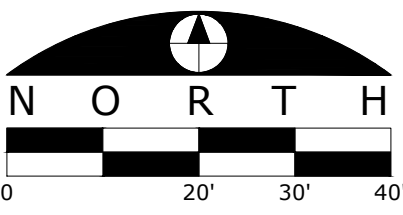
1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
4. PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
5. ALL RADII ARE DIMENSIONED TO THE BACK OF CURB.
6. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED SETBACK LINE
- PROPOSED EASEMENT
- EXISTING FENCE
- PROPOSED PAVEMENT
- EXISTING PAVEMENT
- SIDEWALK PAVEMENT
- ASPHALT PAVEMENT
- TEMPORARY ASPHALT PAVEMENT, 2" MIN
- AREA COMPLETED UNDER ORIGINAL SCOPE
- 10"W EXISTING WATER LINE
- 2"W PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- U/T PROPOSED TELEPHONE SERVICE
- O/U EXISTING OVERHEAD UTILITY LINES
- EXISTING FIRE HYDRANT ASSEMBLY
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING MANHOLE OR CATCH BASIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- EXISTING UTILITY POLE



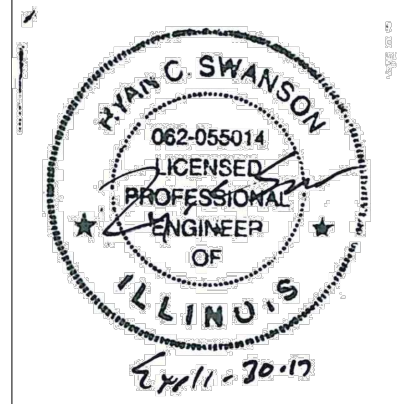
SITE LAYOUT PLAN



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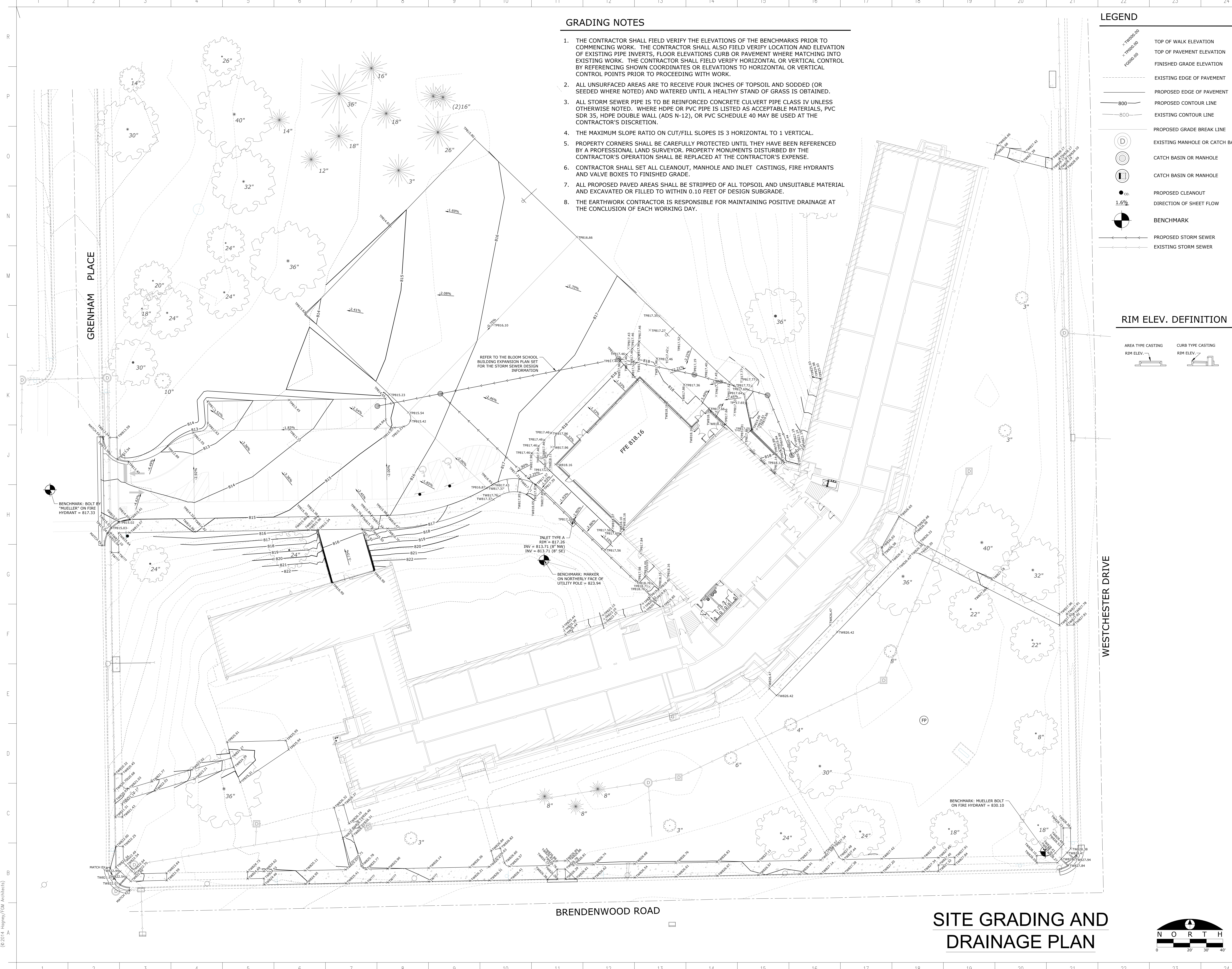
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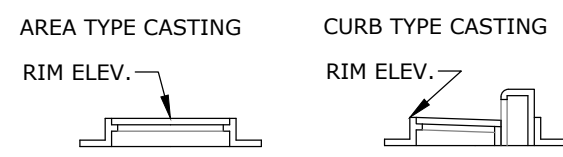
GRADING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3 HORIZONTAL TO 1 VERTICAL.
5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.

LEGEND

- TOP OF WALK ELEVATION
- TOP OF PAVEMENT ELEVATION
- FINISHED GRADE ELEVATION
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED GRADE BREAK LINE
- EXISTING MANHOLE OR CATCH BASIN
- CATCH BASIN OR MANHOLE
- CATCH BASIN OR MANHOLE
- PROPOSED CLEANOUT
- DIRECTION OF SHEET FLOW
- BENCHMARK
- PROPOSED STORM SEWER
- EXISTING STORM SEWER

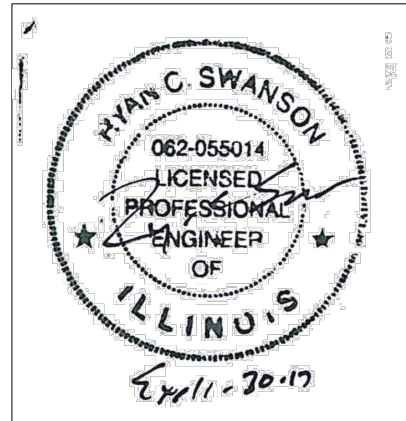
RIM ELEV. DEFINITION



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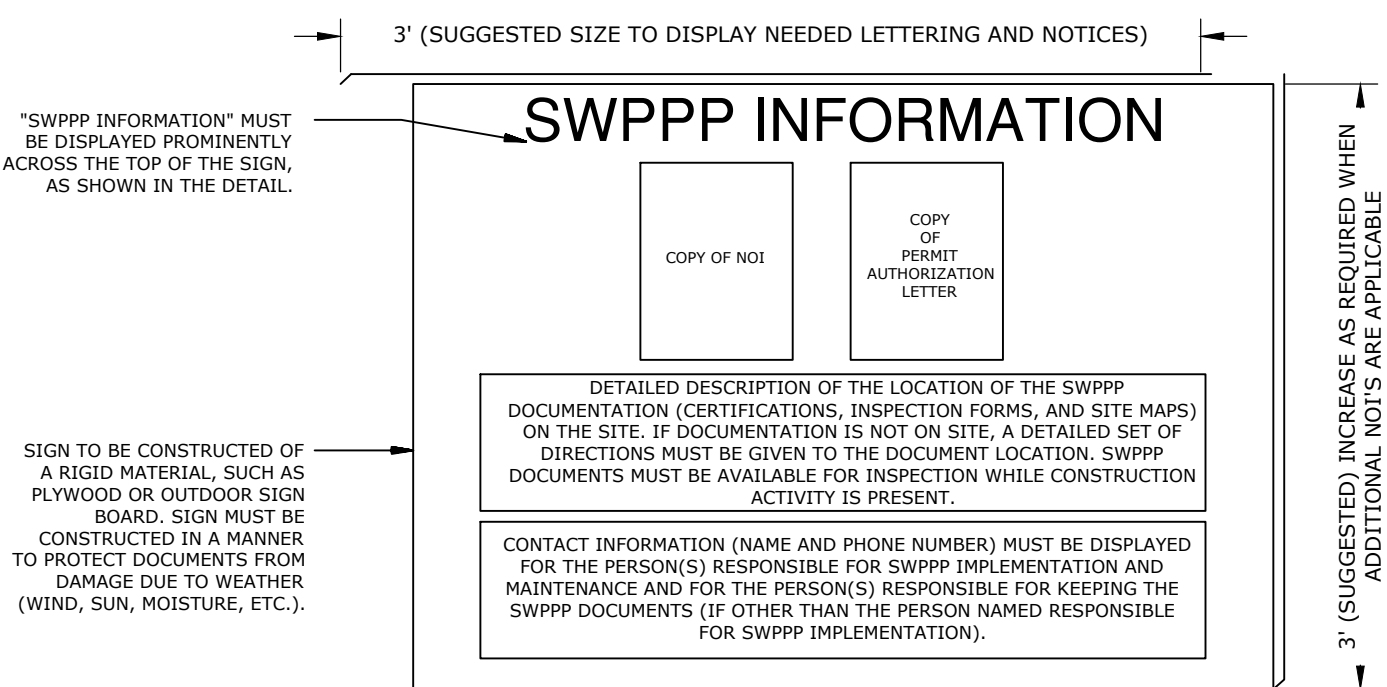
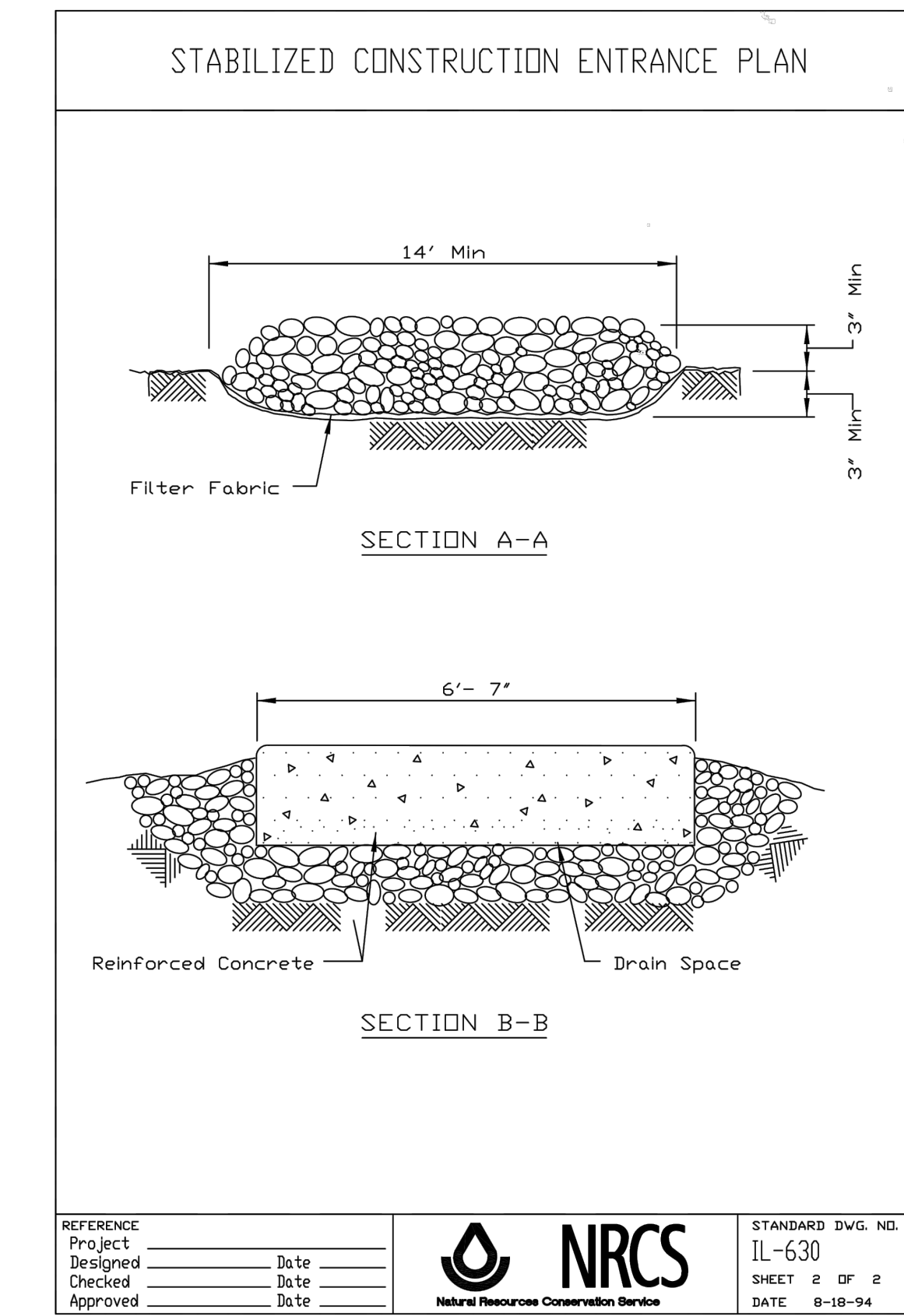
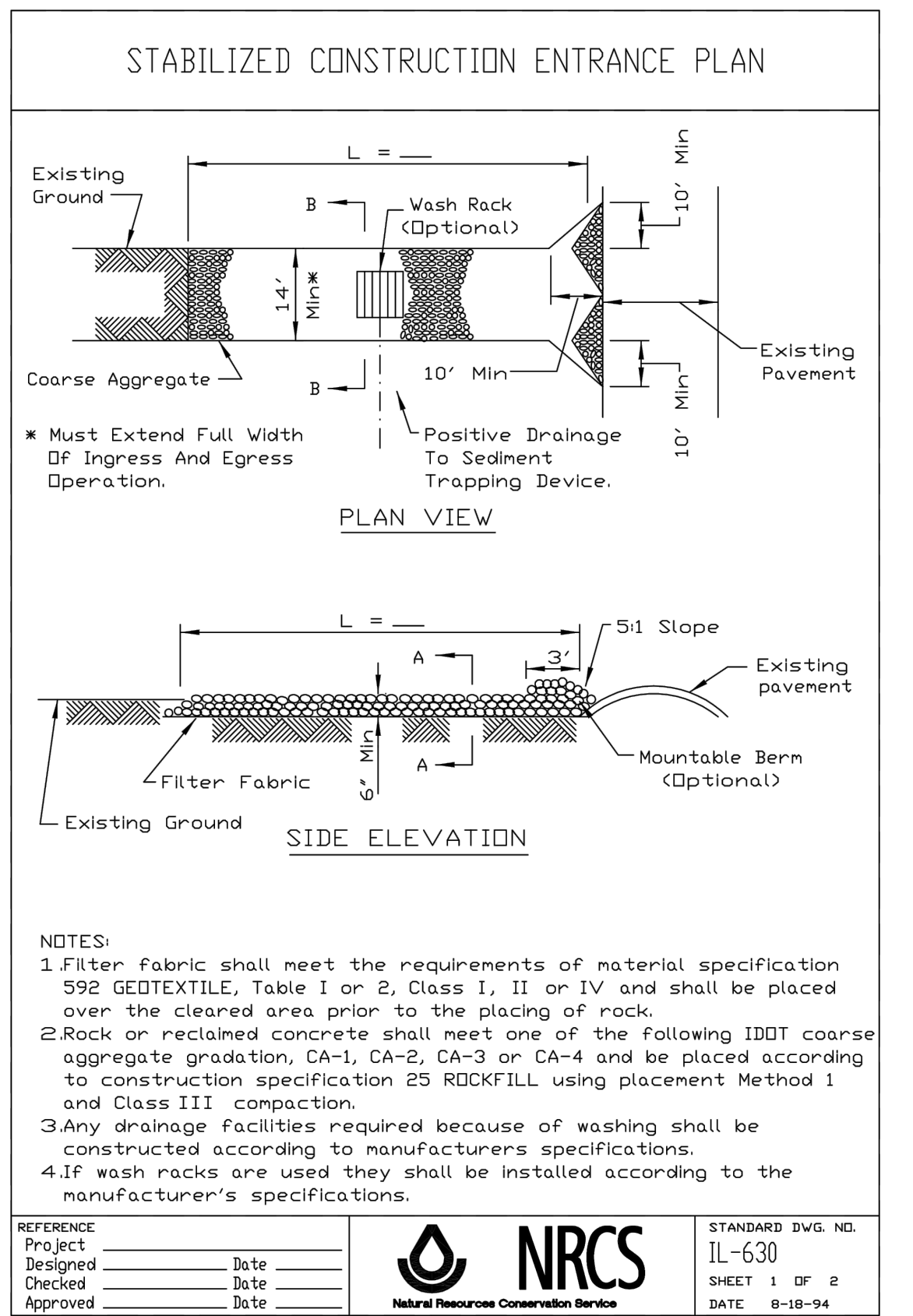
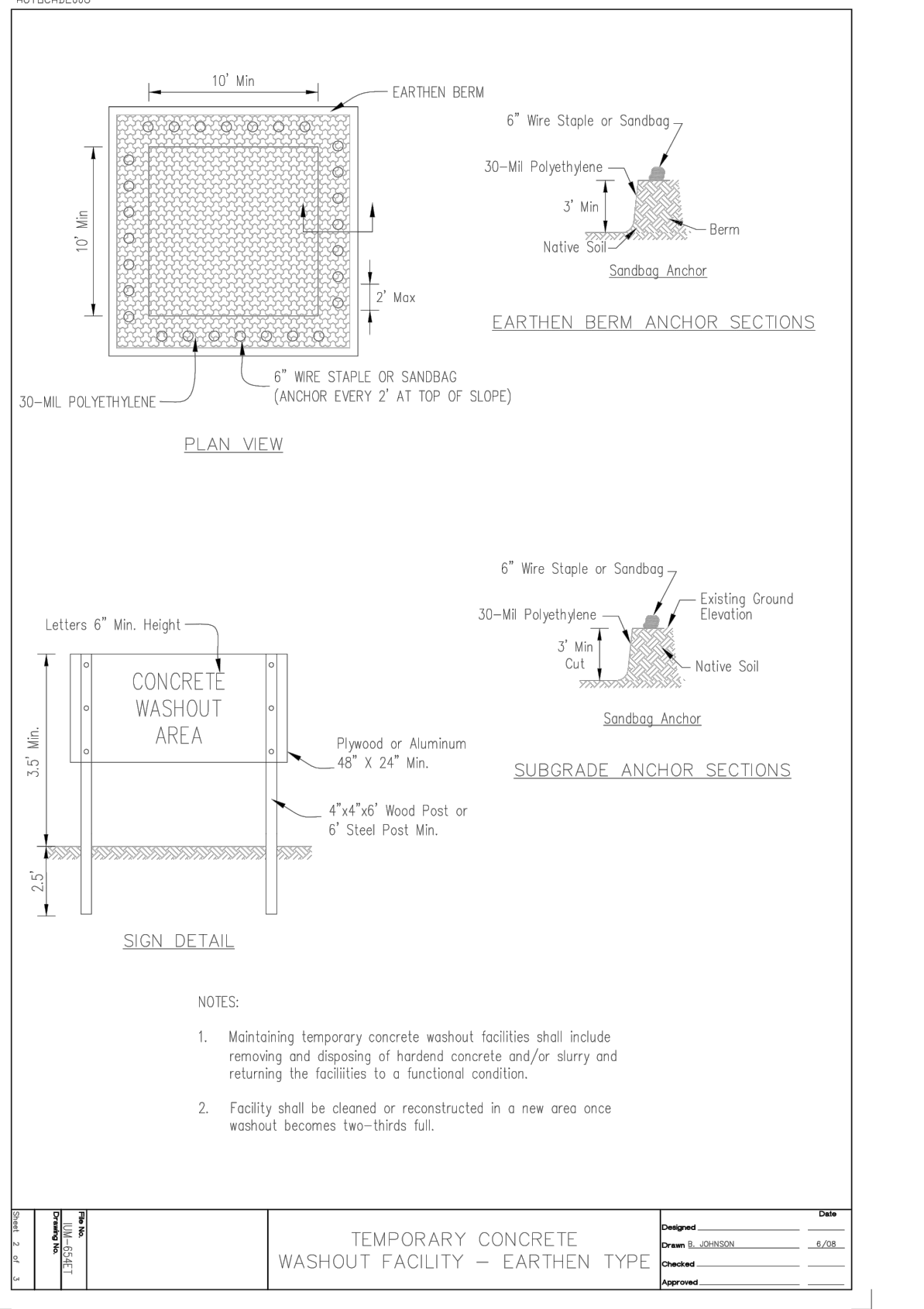
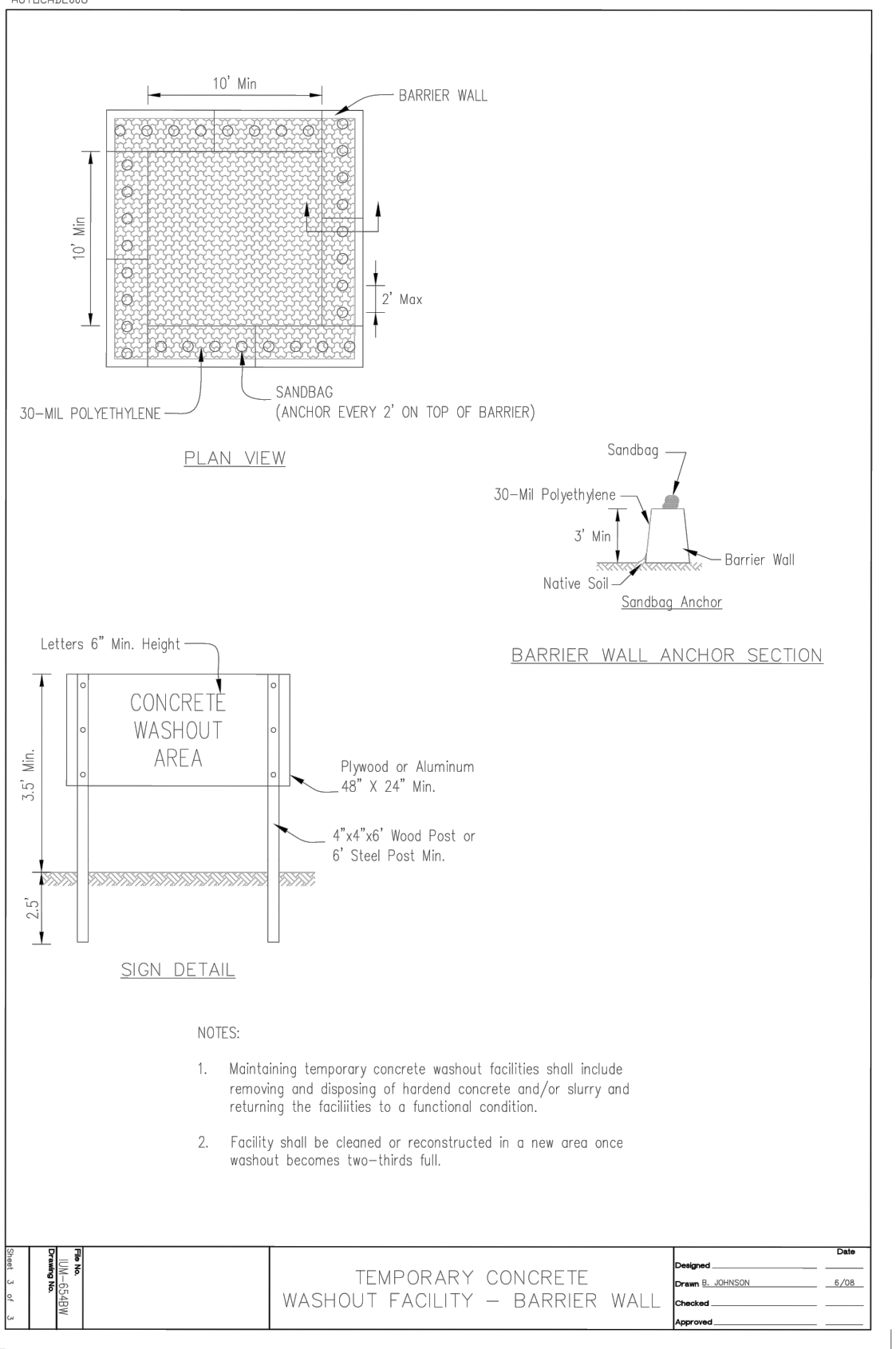
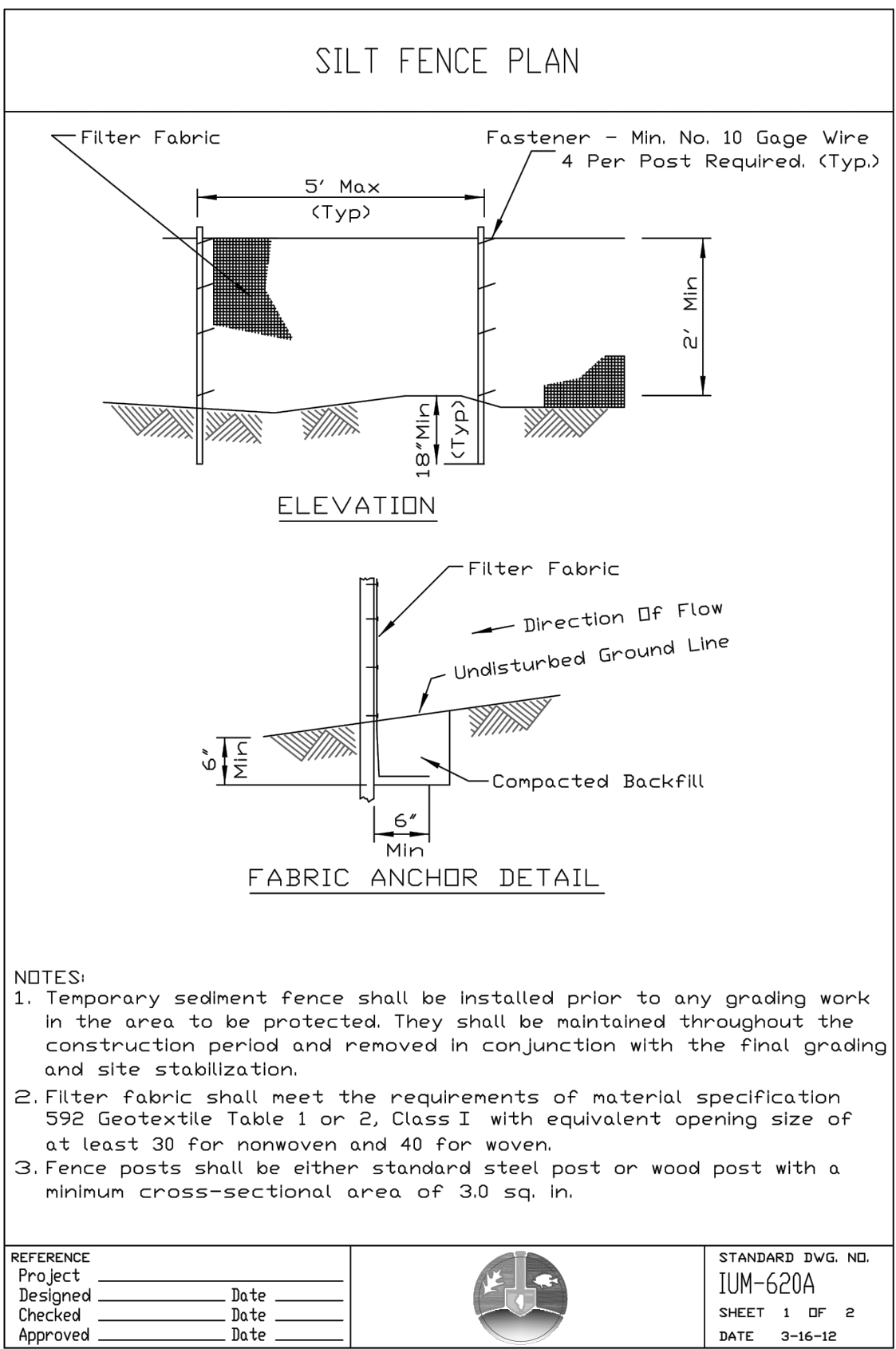
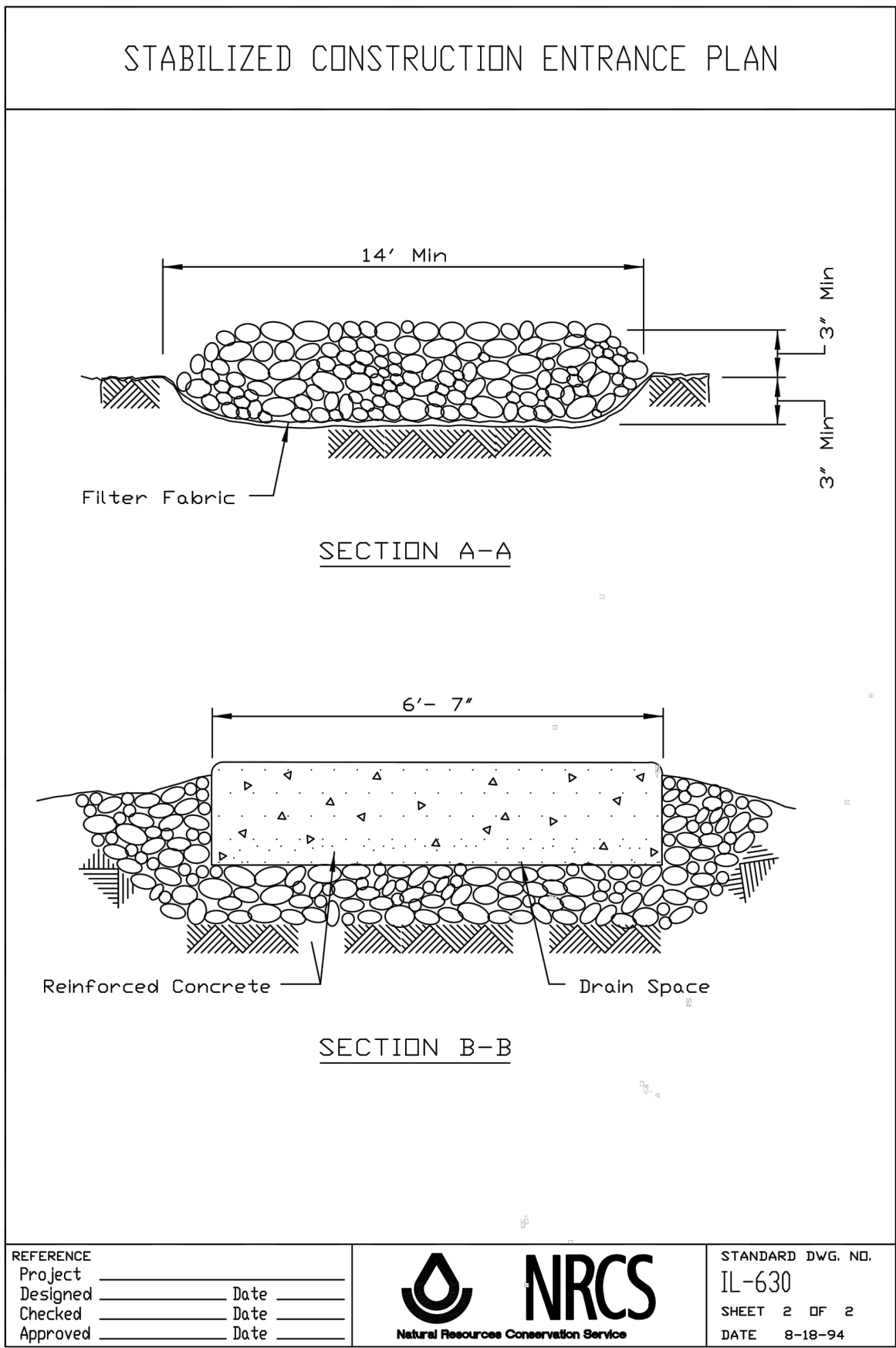
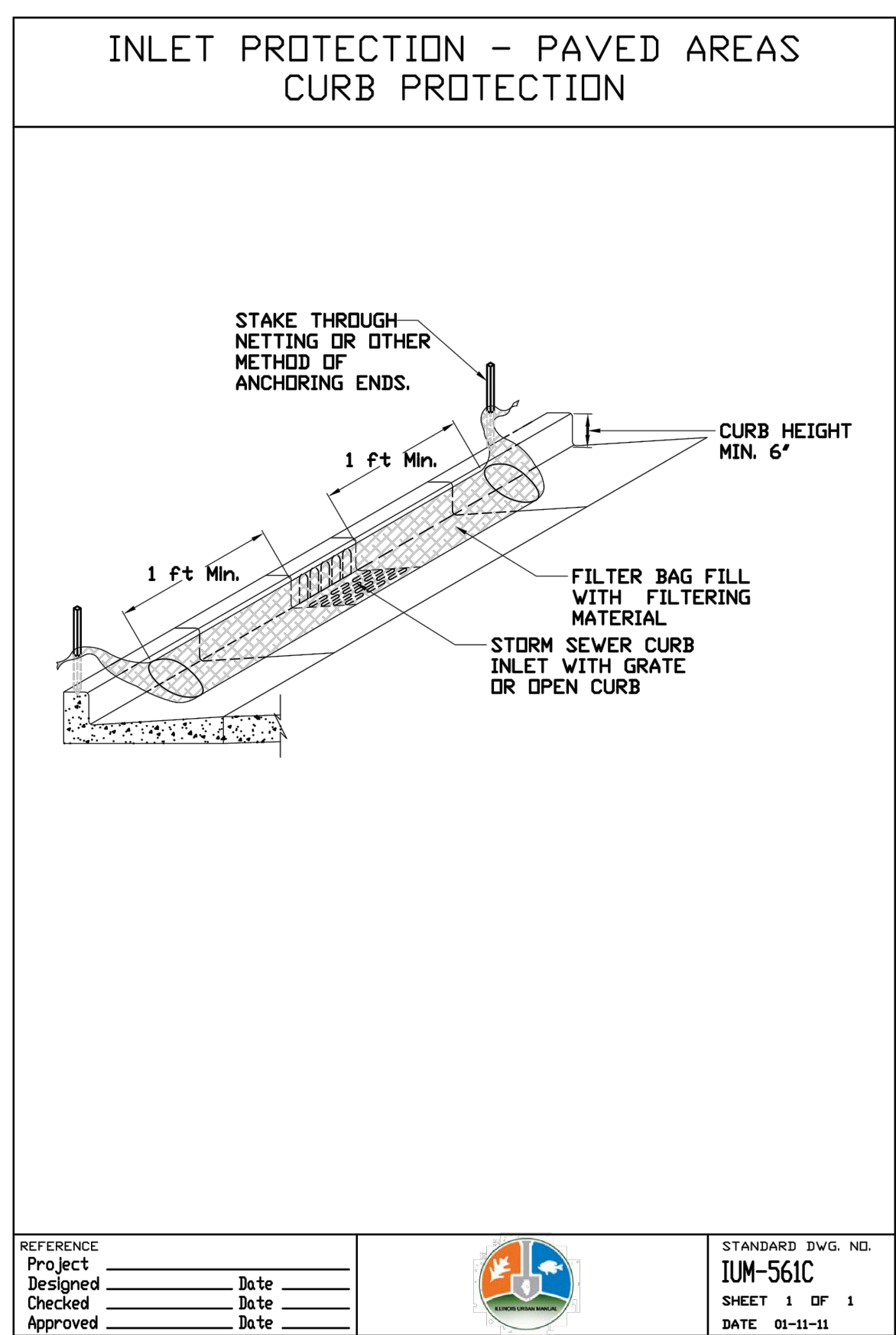
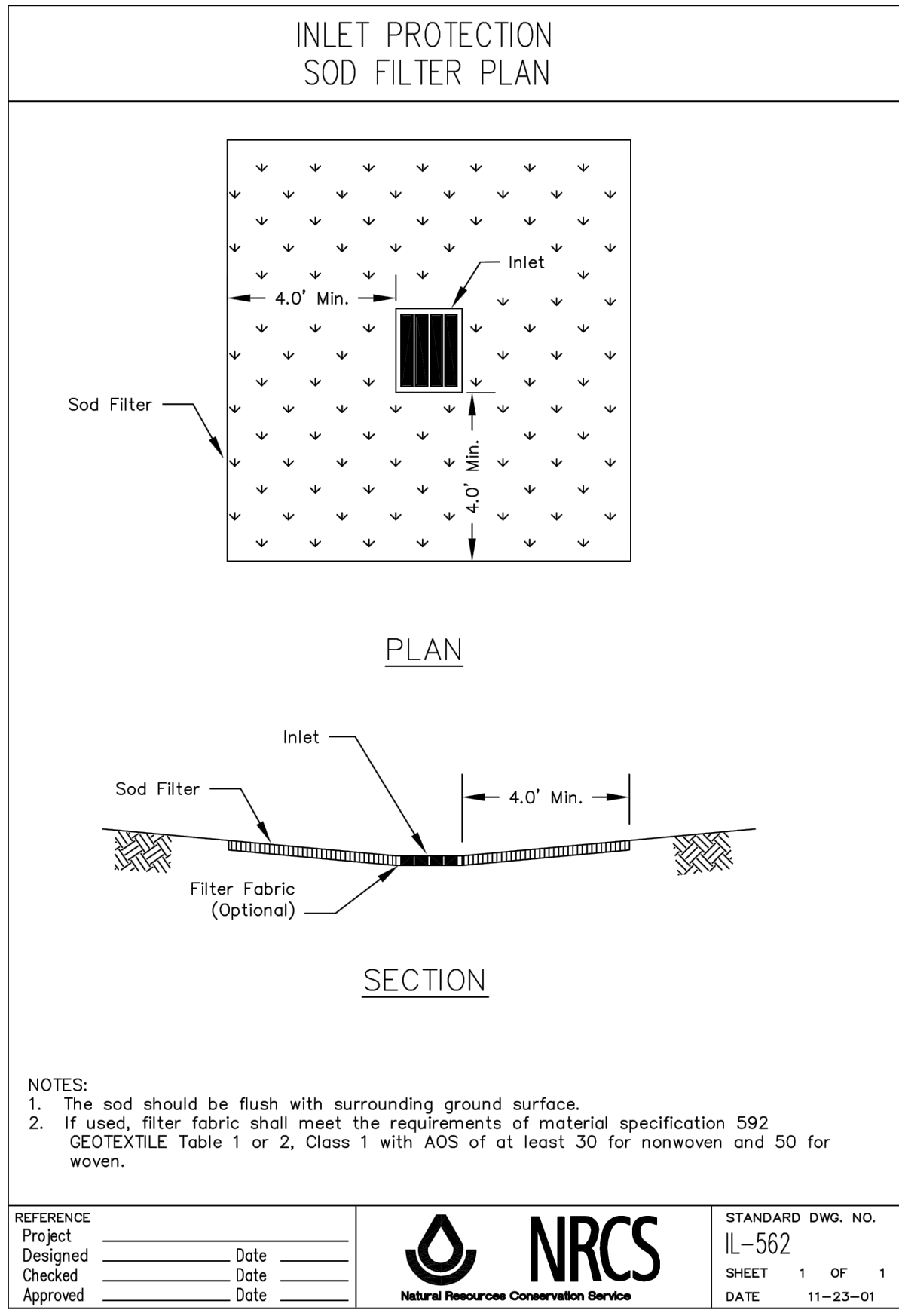
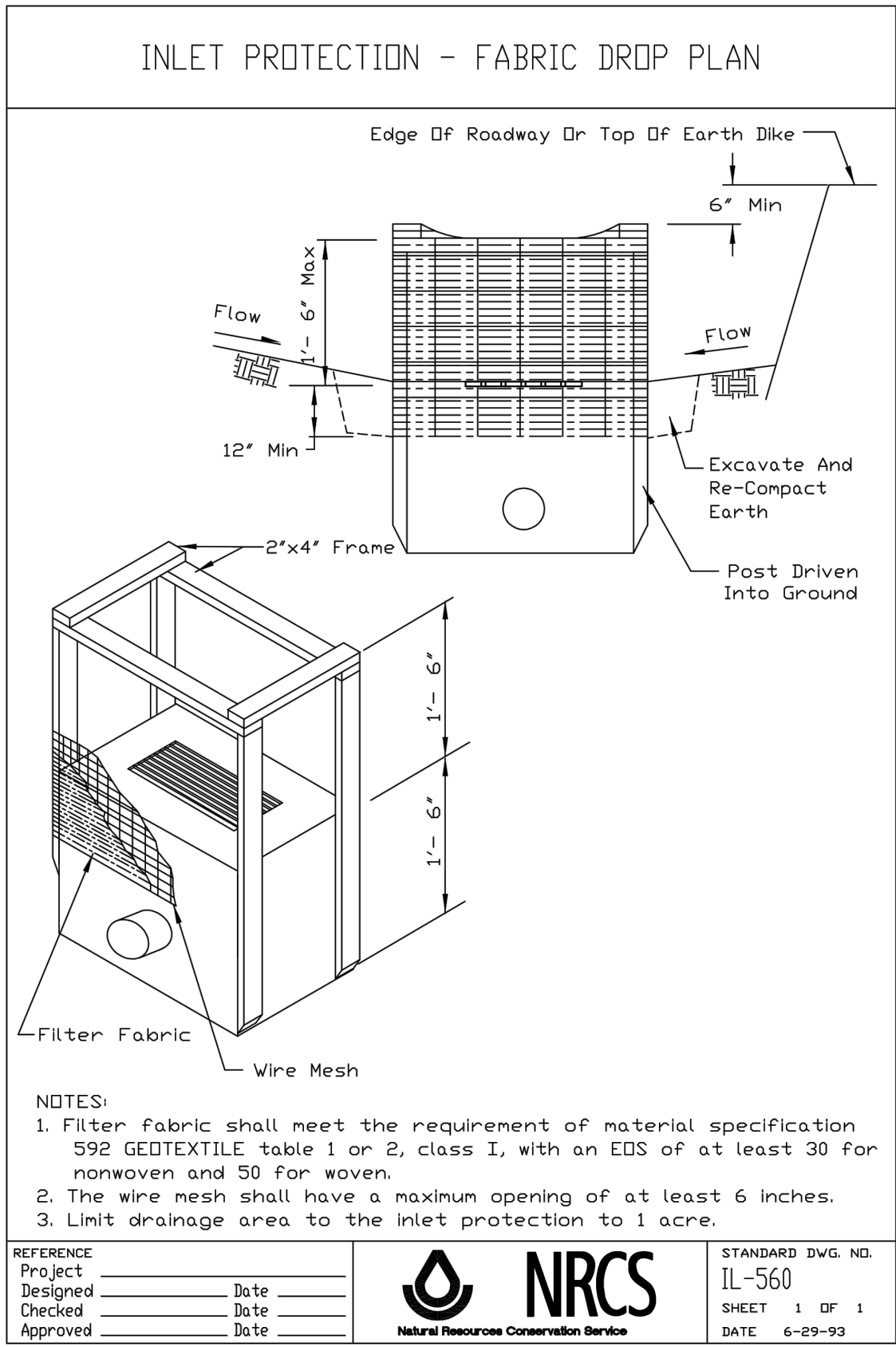
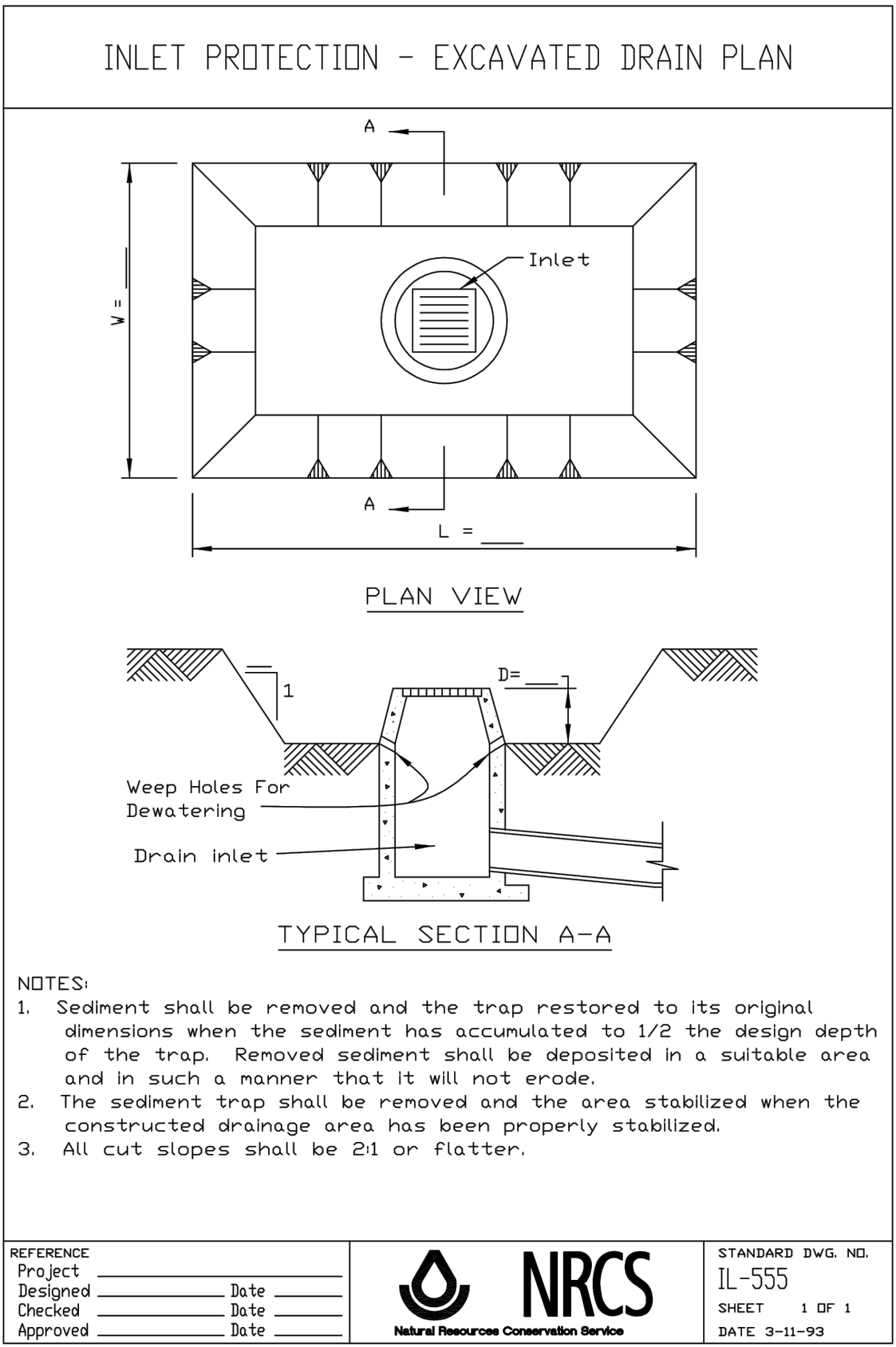
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DETAILS

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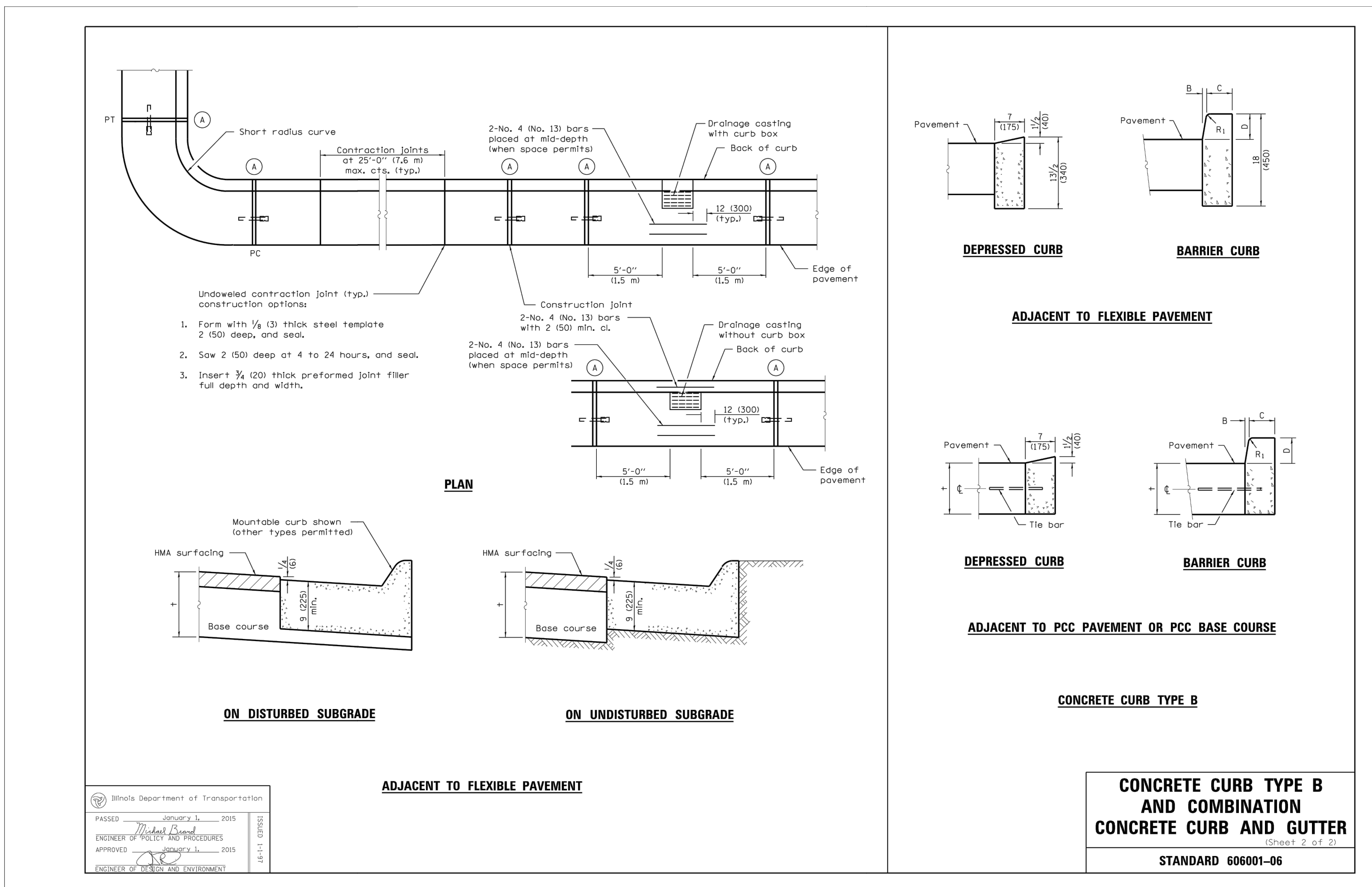
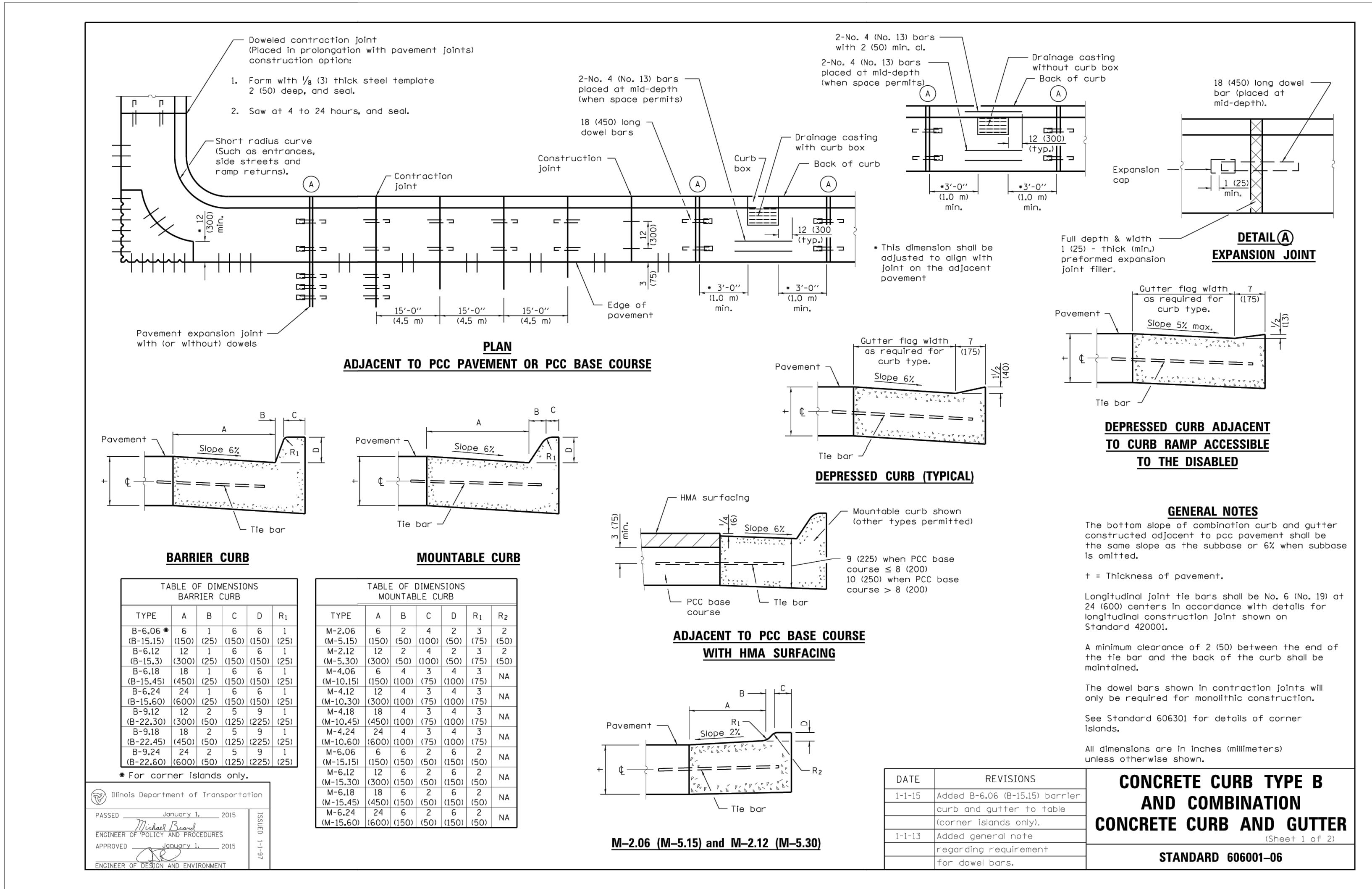
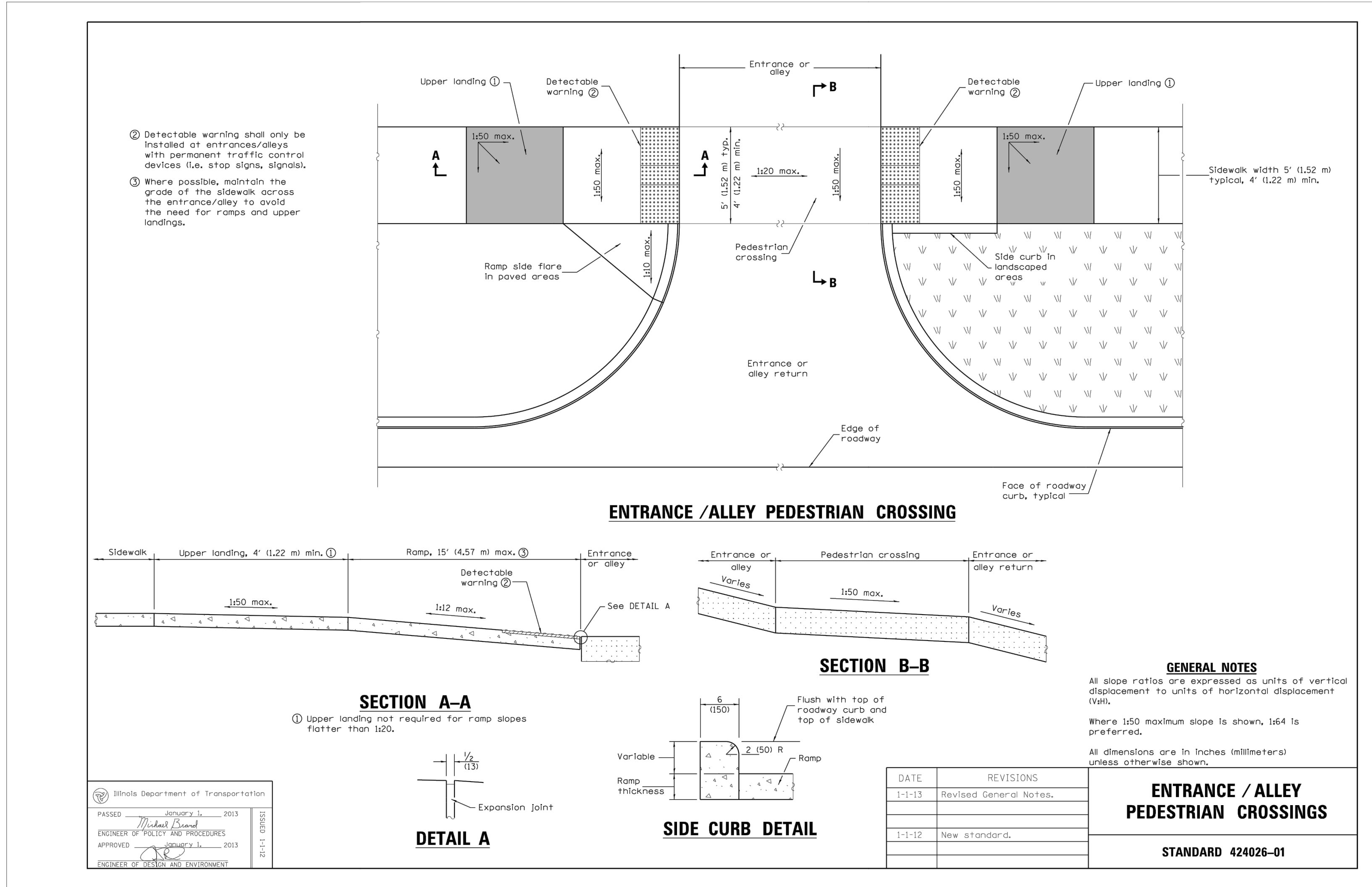
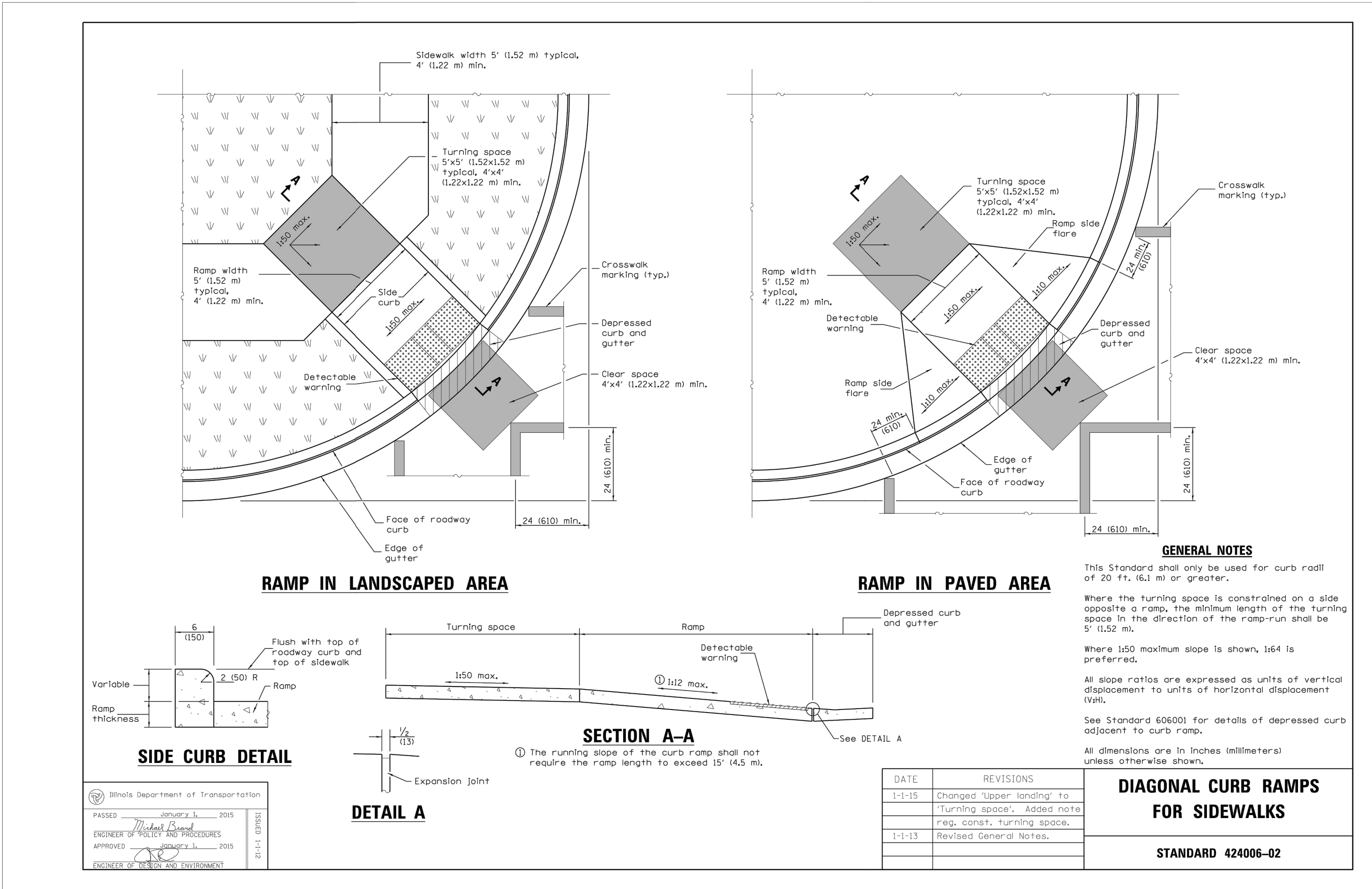
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ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS**

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DETAILS

ISSUANCE	NO.	DATE	DESCRIPTION
1	05/22/17	Issue for Bid & Permit	

HAGNEY ARCHITECTS LLC

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