

HAWKS POINTE PLAT 5

HAWKS POINTE TRAIL

ROSCOE, IL 61073

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 city, and all agents and assigns of those parties, 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 of the contractor's performance is not intended to include 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 standards.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the Village of Roscoe, the State of Illinois, and this plan set.
- The Village of Roscoe 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 concurrent 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.
- Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner and village shall be notified immediately upon encountering any tile. Village approval required prior to connection to storm system.
- 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 WinGIS Datum, using monument #38 (WIN 18.1 N, 07.1 E)
- 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, General Telephone, Commonwealth Edison, Northern Illinois Gas and cable television, if any. The J.U.L.I.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 City with record drawings in a digital format compatible with AutoCAD Release 14 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.
- Notify the owner and Village of Roscoe of any existing wells. Obtain permit form the Illinois Bureau of Minerals and the State Water Survey. Cap and abandon wells in accordance with local, state, and federal regulations.
- 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.

VICINITY MAP



DIAL 811 OR (800)
892-0123



OWNER:

WHITE OAK TRUST

1020 BENBROOK DRIVE
LOVES PARK, IL 61111

ENGINEER:



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APPROVAL

CITY
COUNTY
STATE

DATE

PENDING
PENDING
PENDING

UTILITY OFFICIALS

PUBLIC WORKS DEPARTMENT:

VILLAGE OF ROSCOE
5402 SWANSON ROAD
ROSCOE, IL 61073
WADE KRETSINGER
SUPERVISOR
(815) 877-0746

WATER DEPARTMENT:

NORTH PARK PUBLIC WATER DEPARTMENT
1350 TURRET DRIVE
MACHESNEY PARK, IL 61115
(815) 633-5461

SEWER DISTRICT:

FOUR RIVERS SANITATION AUTHORITY
3501 KISHWAUKEE STREET
ROCKFORD, IL 61109
CHRISTOPHER T. BAER, P.E.
DIRECTOR OF ENGINEERING
(815) 387-7660

CABLE TELEVISION:

COMCAST
4450 KISHWAUKEE STREET
ROCKFORD, IL 61101
THOMAS YUCCAS
(815) 395-8977

TELEPHONE:

AT&T MIDWEST
2404 8TH AVENUE
ROCKFORD, IL 61108
HECTOR GARCIA
(630) 639-8372

GAS:

NICOR GAS
1844 FERRY ROAD
NAPERVILLE, IL 60563
(708) 878-1242

ELECTRIC:

COM ED
123 ENERGY DRIVE
ROCKFORD, IL 61109
(815) 490-2335



PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	08-03-2022
2. AGENCY APPROVAL	08-29-2022
3. AGENCY APPROVAL	10-06-2022
4. AGENCY APPROVAL	11-16-2022
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REVISIONS

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SHEET TITLE

COVER SHEET

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22012

C00

All earthwork, grading and paving shall be performed in accordance with Standard Specifications for Road and Bridge Construction in Illinois, State of Illinois Department of Transportation, (current edition), the "Supplemental Specifications and Recurring Special Provision" (current revision), and the "Standard Specifications for Road and Bridge Construction" (current revision), and all treatments and specifications of Village of Roscoe (where applicable).

Notify the following at least 48 hours prior to start of construction:

- A. Village of Roscoe Dept. of Public Works - (615) 654-5040
- B. Arc Design Resources, Inc. - (615) 484-4300

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. The J.U.L.I.E. number is 900292-0123. A minimum of 48 hours advance notice is required for non-emergency work.

The Contractor shall be responsible for obtaining a permit from the Department of Public Works, Division for all water main shutoffs required due to construction operations. The Contractor shall not install any valves or shutoffs without a permit.

The Contractor shall provide and install two weighted sand bags on the bottom corner of each type I barricade used.

If during paving or grading operations the existing manholes or street signs, which are to remain in place, become a hindrance, the Contractor shall be required to construct a temporary structure to protect the manhole or sign and include the structure in the bid.

The top four inches of soil in any right of way area disturbed by the Contractor must be capable of supporting vegetation.

The work to be done under these specifications includes the furnishing of all labor, materials, and equipment necessary for the proper installation of the piping, all plumbing work, and all work on manholes and materials shall conform to requirements of all applicable codes and standards. All work shall be done in accordance with the latest edition of all appropriate regulations, recommendations or requirements of all federal, state and local agencies.

Replace all sections of sidewalk, street paving, or surfacing or other improvements damaged during construction as a result of the contractor's operations. All unpaved areas shall be re-seeded. Contractor shall be responsible for the adequacy of all sheeting.

1.4.F.1 Watermain being installed within a casing pipe must have a restrained joint. An example of restrained joint is Certain Tec C900/95 R & RJ® Restrained Joint

1.4.F.2 For all casing pipelines, a rubber boot with stainless steel bands is required on each end of the casing. No brick and mortar end caps will be permitted. In addition, casing spacers (Cascade / All Stainless Steel or equivalent) shall be installed in accordance with the District Engineer or Manufacturers specifications. Should a discrepancy occur, the District Engineer shall take precedence.

A. Definition for materials

A. "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.

B. 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 15% by weight. Organic content shall be less than 8% by weight.

C. Topsoil shall be relatively free from large roots, weeds, shrubs, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.

D. Topsoil shall be loose and friable and 8 to 10 percent moisture content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.

E. "Existing on-site material within moisture content limits" is defined as material of such a quality that the specified compaction can be met without any additional work other than "densifying" with a mechanical vibrator.

F. "Existing on-site material NOT within moisture content limits" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and mixing, chemical stabilization, or the use of a soil compaction method other than vibration compaction.

G. "Usable material" is defined as any materials that:

5291 ZENITH PARKWAY
Roscoe, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303

Illinois Design Firm License No. 184-001334

PROJECT NAME _____
OWNER'S NAME _____

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
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SHEET TITLE

PROJECT NUMB.
SHEET NUMBER

2301:

C01

1	All water mains shall be constructed in accordance with the "Standard Specifications for Water and Sewer Main construction in Illinois".	
2	Water mains, as well as sewer mains, shall be constructed in accordance with the Standard Watermain Specifications current addition, on file with the Illinois EPA Division of Public Water Supply.	
3	The water main shall be made of ductile iron pipe or polyvinyl chloride (PVC) pipe conforming to AWWA C900 or as specified on the plans and specifications.	
4	The minimum cover for all watermain, hydrant lead piping, and water service pipe is 7 feet (6 inches - 7'-0") from finished grade to top of pipe.	
5	All watermain under and within two feet of any existing or proposed street pavement or curb shall be backfilled with granular material. Each hydrant shall be installed at least 18 inches above the 12 inches compacted to 95% of maximum standard proctor density.	
6	All valves shall be gate valves Mueller Model A-2600 or approved equal, with mechanical handwheel, bronze riser, bronze plug, bronze or ductile iron pipe, bronze mounted, bronze non-rising stem, double disc pattern, designed for 300 pounds working pressure Mueller AWWA standard C500 or C315. All valves shall open left. Valves 14 inches and larger shall be installed so that they shall be installed in a five foot (5') diameter vault with cast iron lid.	
7	All watermain shall be pressure tested to at least 1.25 times the design pressure at the lowest point along the entire length of the watermain, but not less than 1.5 times the working pressure at the lowest point along the test section in accordance with the requirements of the North Park Public Water District.	
8	Maximum allowable leakage shall meet the Standard Specifications for Sewer and Watermain Construction in Illinois (latest edition).	
9	After the pressure test has been accepted, the contractor shall chlorinate the watermain in accordance with the requirements of AWWA, the Illinois EPA, and the North Park Public Water District. HTH labels shall not be glued to PVC manhole.	
10	Watermains and services shall be separated from or protected from storm drains by means of a wall or partition in accordance with the "Standard Specifications for Water and Sewer Construction in Illinois", current edition.	
11	The water service pipe shall be by type and manufacture acceptable to the North Park Public Water District. Any polyethylene water service that is installed must be a minimum 1 inch IPN iron pipe size (IPS) complete with 1 inch IPS stainless steel stiffeners.	
12	Water mains shall be constructed in accordance with the standards in 48 inches of a fire hydrant. Trees, bushes, walls, or other obstacles which may hide or impede the use of a fire hydrant will not be permitted.	
13	Fire hydrants shall comply with standards specified in AWWA C500 for Dry Barrel Fire Hydrants. Each hydrant shall be the mechanical joint type due to those manufactured by the Mueller Company of Decatur, IL (Centurion) of approved equal. No fire hydrants shall be installed in curbside areas unless the hydrant can be painted in contrast to AWWA S12, C502, Traffic Yellow.	
14	Fire hydrants shall have two 2 ½ inch nozzles and one 4 ½ inch pumper connection. The nozzle shall be National Fire Protection Association (NFPA) type I. Hydrants shall be of dry barrel type for non-freezing automatic drain on extreme end of hydrant and non-flooding of the gate securely locked in place. The chain shall be of pig steel construction. Hydrants shall be installed so that the hydrant shall have a sufficient number of turns to close hydrant solid enough to eliminate water hammer. The gate of the hydrant shall ensure a right and complete shut-off. Hydrants shall be of solid cast iron to allow for full opening without the aid of a wrench mechanism without digging. Each hydrant shall have an auxiliary gate valve of not less than 6 inches in size complete with cast iron flange, cover and cover gasket. All hydrant leads shall be a minimum of 6 inches in diameter.	
15	Hydrant installation: Hydrants shall be installed in accordance with AWWA C600 and recommendations of manufacturers. All hydrants shall be installed parallel to the curb, with pump nozzle facing the curb. Hydrants shall be set to the established grade and have a minimum clearance of 18 inches between the center of the pumper nozzle being 18 to 24 inches above grade. Precautions must be taken to provide adequate drainage of hydrants where natural soils will not provide drainage. Hydrant locations shall not be covered by trees, shrubs, fences, utility sanitary sewers or storm drains. Hydrants will be spaced determined by the District. In general, hydrant spacing will be based upon the area being served and as recommended by the State Insurance Facility Department.	
16	Record drawings along with a digital copy in AutoCAD format, are required by the North Park Public Water District. The contractor shall submit measurements for perpendicularity, parallelism, valids and curb boxes. Each measurement shall be parallel or perpendicular to the property line. GIS shapes and with GPS points provided during construction, not during design, shall be submitted along with the record drawings.	
17	All bends of eleven and one fourth (11 ¼) degrees or greater, tees and plugs shall be thrust protected to prevent movements of the hydrant under pressure. Thrust protection shall consist of a minimum of three (3) feet of concrete encasement around the hydrant. The contractor shall contact the NPPWD at least 48 hours prior to beginning work on the water main and/or service installations and should make the site available for inspection by the NPPWD at any time during construction.	
18	NPPWD required tracing wire on all new watermain. Cost of wire	

additional payment will be made for special fittings as agreed upon with the District in advance of installation. Maximum deflections at pipe joints and laying radius for the various pipe lengths shall conform to the following standards:

Ductile-Iron Pipe: Bell and Spigot Joints only approved for AWWA C900
Special Conditions

Ductile-Iron Pipe Mechanical Joints: AWWA C900 AWWA C909
Concrete Pressure Pipe: AWWA C301 AWWA C303 AWWA C304
AWWA C301 AWWA C301 AWWA C303 AWWA C304

When rubber-gasket pipe is laid on a curve, the pipe shall be jointed in a straight alignment and then deflected to the curved alignment. Trenches shall be made wider on curves for this purpose. All watermain and water pipe shall be installed to allow for expansion and contraction of the pipe. The pipe shall be installed to allow for expansion and contraction of the pipe, except that any house service installed under any roadway shall have a 7' cover. Absolutely NO bedding may be included in the backfill within three (3) feet of the pipe, and at least 12 inches of bedding shall be provided for the remainder of the trench. This also applies to the cinders of pipe if rock excavation is encountered. A bed of 4 to 6 inches thickness of pit run sand or gravel is required between rock and watermain.

1.4. Watermain Material

1.4.A Ductile-Iron Pipe: Ductile-iron pipe shall be manufactured in accordance with AWWA C151/A21.51, and meet wall thickness requirements of AWWA C151/A21.50. Pipe shall conform to the standards of the company as furnished to the District in accordance with AWWA C104/A21.4. Joints shall be of an approved type, (Thickness Class 52)

1.4.B Polyvinyl Chloride (PVC) Pipe: Polyvinyl Chloride (PVC) pipe shall conform to the standard specifications referenced in AWWA C909. In any case of conflict, the requirements of AWWA C909 shall prevail for pipe sized 4 inches through 24 inches. Minimum acceptable pipe sizes for PVC 4 inches through 12 inches is as determined by a Dimensional Ratio (DR) of 15 for PVC 12 inches with equivalent ODs for a working pressure of 150 pounds.

PVCJO pipe shall be guaranteed for 5 years by the manufacturer and an acceptable warranty shall be provided to the District by the company as furnished to the District, upon request, before any pipe is delivered to the job site.

Joints shall be of the elastomeric-gasket type unless otherwise specified. All pipe fittings shall be in accordance with the appropriate AWWA standard.

Service tapping shall be done in accordance with the appropriate AWWA standard. All service taps will include a service saddle of an approved type.

1.4.C Concrete Pressure Pipe: Concrete pressure pipe shall conform to acceptable standards referenced in AWWA C300, AWWA C301, AWWA C303, AWWA C304, or additional recommendations of the manufacturer. Joints shall be of an approved type and be in accordance with the appropriate AWWA standard. Specials and service pipes will be of a type approved by the District before delivery to the job site.

1.4.D Transmission Pipelines: Transmission pipelines shall be Ductile Iron as specified in Section 1.4.A. of this specification document.

1.4.E Pipelines: When casing pipelines are being installed using a "bored and jacked" method, the casing pipe shall be steel and have a diameter of at least 6" larger than the size of the watermain. When casing pipes are installed via a "direct bury" method, the carrier pipe can be made of C905, SDR25 or steel and have a diameter of at least 6" larger than the size of the watermain.

The rated torque capability of each actuator shall be sufficient to seat, unseat, and rigidly hold in any intermediate position the valve disc it controls under the operating conditions specified in the AWWA C515. All gate valves shall be tested using a standard valve key, even under emergency conditions. All valves shall open left and be equipped with 2-inch standard nut.

Valves approved for interior/exterior installations are: Pratt 150 psi, AWWA 504, gear operated or Coated Butterfly Dersler 450[®] or approved equal.

Valves approved for underground installations are: Pratt "Groundhog" 150 psi, MJ, gear operated, air, box or coated butterfly, Dersler 450[®], Mueller Link Seal II or approved equal.

2.2A. Gate Valves (12 inch or smaller): All gate valves shall be reduced wall, resilient-seated gate valve, meeting all specifications of AWWA C515. All gate valves shall be approved for use in potable water service applications and shall not contain asbestos or other hazardous constituents identified by the USEPA as being unacceptable for contact with potable water.

All valves shall open left and be equipped with 2 inch standard nut for underground installation. Each valve shall be capable of meeting all testing and leakage requirements in AWWA C515. Upon request, the manufacturer shall furnish certified copies of the reports covering these tests.

Valves approved for interior/exterior installations are: AFC series 2500 or approved equal.

2.2B. Gate Valves (8 inch or smaller): All gate valves shall be of the resilient seated type construction, meeting all specifications of AWWA C515 or A509. All gate valves shall be reduced wall, resilient-seated gate valve, meeting all specifications of AWWA C515. All gate valves shall be approved for use in potable water service applications and shall not contain asbestos or other hazardous constituents identified by the USEPA as being unacceptable for contact with potable water.

All valves shall open left and be equipped with a 2 inch standard nut for underground installation. Each valve shall be capable of meeting all testing and leakage requirements in AWWA C508 or C515. Upon request, the manufacturer shall furnish certified copies of the reports covering these tests.

Valves approved for interior/exterior installations are: Mueller

Resilient-wedge AZ360 or AFC series 2500.

2.3. Valve Boxes and Covers: All valves shall be provided for all 12 inch or smaller buried valves. Valve boxes shall be cast-iron three-piece construction with a cover and the word "WATER" marked thereon. Covers shall be cast of finished grade lines and be centered vertically over valves. Approved valve boxes are: Mueller No. H-10357, or approved equal.

of all connections or provisions for future connections indicating sizes. One record copy will be provided to the District upon completion of the project. Also, as-built shall be submitted to the District at the time of final payment. The Contractor shall be held responsible during construction, not during design, shall be provided along with as-builts.

Guarantee-Warranty: The Contractor shall guarantee that all equipment, apparatus, materials, components, parts, accessories, function and reliability free of defective workmanship and labor for a period of one (1) year from the date of final acceptance by the District. A maintenance bond in favor of the District may be required, and such bond shall become effective on the date of final acceptance and remain in effect for a period of one (1) year after final acceptance.

Backflow Prevention: The Contractor shall take all necessary precautions to protect potable water supply from cross-connection with ANY source of contamination. All backflow prevention devices must be installed in all commercial and industrial applications.

River Crossing Pipe:

The Riverman Crossover shall be restrained joint ductile iron pipe manufactured in accordance with requirements of AWWA C151/A21.21. Push-on joints for such pipe shall be in accordance with AWWA C151/A21.21.11. Pipe shall be Class 55 thickness in accordance with AWWA C151/A21.50.

The Riverman Crossover Ductile Iron and in accordance with applicable requirements of either AWWA C151/A21.53 or C110/A21.10, and shall utilize a push-on or mechanical restraint where applicable.

The pipe for river crossing pipe and fittings shall be designed for a working stress of 350 psi. Joints shall be capable of being deflected, after assembly, 4%, in 12 inch sizes, and 3% in 14 through 24 inch sizes.

Joints and fittings shall have a cement mortar lining and seal coating, where applicable, in accordance with AWWA C110/A21.10.

The preferred method of installation is pulling it into position. After trenching the river for 3' (feet) of cover, the joints are assembled on shore. The river bank is trenched and the pipe is lowered into place.

The joints during pulling. The lead pipe is usually a connecting piece which is pulled or plugged to keep unwanted water out of the pipe and reduce the weight of the submerged pipe. A cable or harness is attached behind the first joint and the pulling cable is attached to the opposite shore. To prevent flotation of the pipe, the Contractor shall fill each section with water before being pulled into place. The Contractor shall then cover the pipe section.

The Contractor shall be installed per the requirements of permits issued by the Corps of Engineers, U.S. Division of Natural Resources and any other agency having jurisdiction. Valves shall be provided at both ends of river and creek crossings so that the section can be isolated for repair or replacement without interrupting service to the remainder of the system. There shall be a valve walled according to Section 2.3. Permanent "1" taps and valves shall be installed on the river or creek side of each valve to allow insertion of a small meter to monitor flow.

Any items or provisions not covered by these standard specifications shall be looked over to the District General Manager, District Engineer or other designated official for approval. Any additions, deletions, changes, omissions, or variations shall be noted in apparent error or omission in these specifications, and the District shall be permitted to make such minor changes and alterations as may be deemed necessary for the benefit of the intent of these specifications.

GENERAL PAVING NOTES

1. All pavement shall be constructed in accordance with the following:
 - A. 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.
 - B. Standards and requirements of Village of Roscoe.
 - C. Additional details and requirements provided in the contract documents, including this plan set.
2. All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 6 to 10 feet of design subgrade.
3. 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.
4. The subgrade shall be rolled, rolled and compacted as approved by the Village of Roscoe prior to placing the base material. Notify the engineer at least 48 hours prior to finished subgrade preparation.
5. The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolled, placing topsoil to a minimum depth of 4 inches to finished grade in the pathways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
6. The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor for estimating the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
7. The paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface preparation and related work associated with the paving operation.
8. 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 Village of Roscoe.
9. 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.
10. Field quality control testing specified hereafter shall 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 Village of Roscoe 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.
 - A. Field testing, frequency, and methods may vary as determined by and between the owner, the ITL and Village of Roscoe.
 - B. 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.
 - C. No ponding shall occur on paved surfaces.

PROJECT NUMB.
SHEET NUMBER

226

C01

1. Storm sewer shall be constructed in accordance with the following:
 - A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), Seventh Edition dated 2014 (and all revisions and supplements thereto)
 - B. Standards and requirements of Village of Roscoe.
 - C. Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.

- Storm sewer shall be constructed in accordance with the following:
- A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), Seventh Edition dated 2014 (and all revisions and supplements thereto).
 - B. Standards and requirements of the American Society of Civil Engineers (ASCE).
 - C. Additional details and requirements provided in the contract documents, including this plan set. Where criteria of the aforementioned specifications conflict, the more stringent criteria shall prevail.
2. All storm sewer pipe shall be reinforced concrete pipe unless otherwise specified in this plan set.
3. All storm sewer system elements shall conform to the following specifications:
- A. Storm pipe:
 - 1. Sump pump service connection and storm sewer extension (4" & 6"):
 - A.1.a. ABS pipe shall be in accordance with ASTM D2751.
 - A.1.b. SDR 35 PVC pipe shall be in accordance with ASTM D3034.
 - A.2. Concrete sewer pipe (10" diameter and smaller) shall be Class III (minimum) in accordance with ASTM C14.
 - A.3. Reinforced concrete storm pipe (12" diameter and larger) shall be Class III (minimum), wall B, in accordance with ASTM C76.
 - A.4. Reinforced concrete arch culvert pipe shall be double-lin reinforced, Class III (minimum) in accordance with ASTM C506.
 - A.5. Reinforced concrete elliptical culvert pipe shall be Class HE-III or VE-III (minimum) in accordance with ASTM C506.
 - A.6. Underdrain pipe (4" & 6") shall be SDR 35 PVC pipe in accordance with ASTM D2729.
 - A.7. Galvanized corrugated steel culvert pipe shall be type B, with a minimum wall thickness of 14 gauge per AASHTO M246 (shall only be used for culverts).
 - B. Joints for storm pipe:
 - B.1. ABS pipe joints shall be in accordance with ASTM D2235.
 - B.2. PVC pipe joints shall be in accordance with ASTM 3121 (push-on type), except underdrain pipe, which shall have sealed welded joints.
 - C. Casing Pipes:
 - C.1. 1/4" thick steel in accordance with ASTM A252, grade 2, or ASTM A139, grade B, or approved equal having a minimum yield strength of 35,000 psi.
 - D. Manholes and Catch Basins:
 - D.1. Manholes and catch basins shall be precast reinforced concrete in accordance with ASTM C478.
 - D.2. Manholes and catch basins shall be sized as follows:
 - D.2.a. For sewers eight inches in diameter or less, manholes shall have a forty-eight inch inside diameter.
 - D.2.b. For sewers twenty-one to thirty-six inch in diameter, manholes shall have a sixty inch inside diameter.
 - D.2.c. For sewers greater than thirty-six inches in diameter, manholes shall have a seventy-two inch inside diameter or as specified in this plan set.
 - D.3. Adjusting rings:
 - D.3.a. No more than 2 precast concrete adjusting rings shall be allowed.
 - D.3.b. Precast concrete adjusting rings shall have a maximum height of 6 inches.
 - D.4. Seals:
 - D.4.a. For pipe and frame seals, all pipe connection openings shall be made watertight with hydraulic cement. The hydraulic cement sealing pipe connections shall extend the full thickness of the structural wall. Hydraulic cement shall also be applied within the structure from the cone shape of the cast all adjustment rings to the frame.
 - D.5. All bottom sections shall be monolithically precast including bases and invert flowlines.
- Implements.
- A. Inlets shall be precast reinforced concrete in accordance with ASTM C478 and ASTM C443.
 - B. Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
 - C. Adjusting rings:
 - c.1. No more than 2 precast concrete adjusting rings shall be allowed.
 - c.2. Precast concrete adjusting rings shall have a maximum height of 6 inches.
 - D. Only one pipe connection shall be allowed and it shall be precast with resilient rubber watertight pipe to manhole covers or seals. External flexible watertight seals shall also extend from the manhole cone to the manhole frame.
 - E. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
- F. Castings (Unless otherwise noted within the plans):
- F.1. Inlets other than those that requires a "closed lid" manhole frames and covers shall be as listed below. Close lid frame and covers shall be Neenah R-1916-C embossed "STORM SEWER", f. a. Inlet curb steps shall be Neenah R-1981-L.
 - f. i. Six inch curb and gutter inlet shall be Neenah R-3278-A.
 - f. j. Yard inlets shall be Neenah R-2430-B.
 - f. k. Parking lot inlets shall be Neenah R-2595-A.
- G. Crushed Granular Bedding shall be crushed gravel or crushed stone course aggregate in accordance with ASTM C636 Size 57.
4. All end sections 24" and greater shall be equipped safety bars per IDOT detail Standard 524211. Inspect pipe for defects and cracks before being lowered into the trench, place by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open trench with a stopper and safety railing. Do not allow the pipe during the laying operation. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the laying progress.
5. Install pipe in accordance with manufacturer's written recommendations.
6. Precast installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
7. Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
8. All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation FA-6 or approved equal (Grade 8 or Grade 9).
10. 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 AASHTO T180.
11. Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authority.
12. Backfill trenches to contours and elevations shown on the drawings.

1. Sanitary sewer notes:

A. The Four Rivers Sanitation Authority (FRSA) shall be notified forty-eight (48) hours before construction of the sanitary sewer can commence. Contact FRSA Survey and Field Operations Mgr. Ben Christensen, cell 815-209-7952. Any sanitary sewer construction performed in the absence of an FRSA inspector will not be accepted.

B. Notwithstanding to whom notices are sent, the FRSA before individual service connections will be permitted under the standard FRSA service connection permit process.

C. The permit holder is responsible for the sanitary sewer system workmanship and materials for two (2) years after the FRSA issued Notice of Acceptance. The Sewer, and for the sanitary sewer trench settlement for a period of three (3) years after the completion of the project.

2. Sanitary Sewer shall be constructed in accordance with the following:

A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.

B. "General Provisions and Technical Specifications for Sanitary Sewer Construction" in the Four Rivers Sanitation Authority (formerly known as the Sanitary District of Rockford) dated October 24, 1983, and all standards and revisions adopted by the Board of Trustees for said Sanitary District of Rockford.

C. Additional details and requirements provided in the contract documents, including this plan set.

Where any of the items mentioned in the above conflict, the more stringent criteria shall be implemented.

A. All PVC sanitary sewer (SDR 26 AND SDR 35) shall meet the requirements of ASTM D-3034 (4"24") or ASTM E-679 (18"24") with joints in accordance with ASTM D-3212. All PVC watermain-quality sanitary sewer (SDR 26) shall meet the requirements of ASTM D-2241 with joints in accordance with ASTM D-3139. Pipe bedding for all PVC pipe shall be Class 1A in accordance with ASTM D-3241-74.

B. Sanitary sewer services shall be installed at a minimum depth of 48" below existing ground surface, and shall extend 3' past the property line of all lots. Joints between the wyte and end of service riser shall be gasketed in accordance with ASTM D-3139. All services shall be sloped from the main at a minimum Mark at property line with a 2:4 painted grade. End of service risers are required in accordance with the FRSA standard details included in these plans.

B. WYE or TEE branches shall be a minimum 7' from the outside of any sanitary manhole and be furnished and installed by the Contractor as shown on the Engineering Drawings.

D. All testing, fittings, bedding, granular chaff, and trench backfill where necessary shall be included in the unit costs for the installation of the sanitary sewer services unless otherwise specified.

E. PVC pipe should be installed with proper bedding providing uniform longitudinal support under the pipe. Bedding material should be worked under the sides of the pipe to provide satisfactory haunching. Initial bedding backfill should be placed to a minimum depth of one foot over the top of the pipe. All pipe embedment material should be selected and placed carefully, avoiding large stones, frozen lumps, and debris.

F. After placement and before backfilling, all bedding materials, the balance of backfill materials may be machine placed and should contain no large stones or rocks, frozen material or debris. Excavated materials free from spoil may be used in the final trench depth provided they are placed in 9" lifts loosely measured and compacted to not less than 95% ASTM D-698 standard proctor.

G. All sanitary sewer manholes shall have no septic cones with the cone coverings centered over the pipe. All manholes shall be guaranteed by the Contractor for 3 years after FRSA acceptance.

H. All sanitary sewer manholes shall be 48-inch diameter precast concrete, unless shown otherwise.

I. The allowable infiltration shall not exceed 20 gallons/night diameter/mile/24 hours.

J. Sanitary sewers shall be air-tested in accordance with FRSA requirements.

K. All new sanitary sewer manholes shall be vacuum tested in accordance with ASTM C 1244.

L. All sanitary sewers under or within two feet of any existing or proposed street pavement or curb shall be backfilled with DOT approved granular backfill material. Trench backfill shall be placed in lifts to not exceed 9" compacted to 95% of maximum standard proctor density.

M. Sanitary sewer manhole installation shall be completed within 48 hours of the start of construction and air testing of sanitary sewers. Water, main, water services, and storm sewer must be installed and FRSA notified soon after installation before sanitary sewer testing can be performed.

N. Trenches must be backfilled to 2" below subgrade and mains and services must have 5" minimum depth of cover over the top of the pipe before sanitary sewer testing can be performed.

O. Manhole frames shall be provided with self sealing lids, FRSA Logo, Neenah 1670-204/-0358 only.

P. Upon completion of construction, all sanitary manhole castings shall be exposed and set at final grade.

Q. Exterior manhole seals shall be required on all new manholes including the barrel sections.

R. Deflection testing for flexible conduit.

A. All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.

B. If the deflection test is to be run using a rigid bar or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical pulling devices.

C. Wherever possible, the grade of the sewer shall be established at the downstream limits at the downstream limits and extend towards the upstream lines.

D. Maximum allowable pipe deflection is 5%. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflected pipe fall to return to the original size (inside diameter) the line shall be acceptable.

3. Proposed sanitary sewers shall be separated at least 10' from existing and proposed water lines, water services, storm structures and storm sewers measured from outside edge to outside edge. The top of proposed sanitary sewers shall be at least 18" below the bottom of existing and proposed storm structures and storm sewers. Where sanitary sewer crosses over water main or storm sewer, the bottom of the sanitary sewer shall be at least 18" above the top of water main or storm sewer.

4. Where sanitary sewer depths exceed 12' the contractor shall use the Alternate Service Riser method to install the sewer service line so that the invert of the service, at the property line, is 10.5' below the proposed centerline grade.

5. All construction of the sanitary sewer shall be exposed and set to final grade. FRSA must inspect this work.

6. Exterior manhole seals will be required as part of manhole assemblies. Flattop manholes are not permitted. No adjusting rings are required outside a paved roadway or in a roadway with curb and gutter. All manholes adjusted or reconstructed where more than two rings are involved will require vertical manhole grouting.

7. The Four Rivers Sanitation Authority will furnish a full-time inspector for all sanitary work.

8. All fill material in the area of sanitary sewer mains and services must be placed and compacted prior to installation of the sewer mains and services.

9. The Four Rivers Sanitation Authority specifies the following for manhole adjustment requirements:

A. A minimum of 4" of adjusting rings (4" adjusting ring not required in turf areas or in full curb and gutter roadways)

B. A maximum of 12" of adjusting rings

C. A maximum of 1" - 12" adjusting ring per manhole

D. A maximum of 30" from the top of adjusting to the first step

Notes: Adjustment by grouting is not permitted. Where the roadway agency of jurisdiction allows, rubber adjusting rings shall be used

10. Labeled pipe lengths are from center of manhole to center of manhole.

11. The slope of the sewer shall be from the center of the downstream manhole to the center of the upstream manhole. The slope of the public sewer and invert of the sewer at the manholes shall be based on the distance between the outside faces of the manholes.

Sanitary Sewer Service Connection

1. Contractor must complete a standard FRSIA Industrial/Commercial (IC) application and submit to FRSIA for approval of the sewers shown as part of the building connection permitting process.
2. Contractor must complete all fees associated with this project. The contractor shall pay all application fees, and should be reimbursed by the owner. Contractor shall provide the owner with a written breakdown of all FRSIA fees with evidence of payment.
3. FRSIA will require inspection of the sewer installation. Contractor shall coordinate this inspection with FRSIA. Owner shall pay for all inspection fees.
4. All sanitary sewer, manholes, sewer lines, and manhole vaults shall be installed in accordance with the Village contract. The Village contractor is responsible for familiarizing himself with the specific requirements for materials and construction for these two agencies.
5. The Village of Roscoe may also require inspection of the building connections. The contractor shall coordinate all Village inspections with the Roscoe Village Engineer.
6. Contractor to install 6" service from main to designated point of connection as shown on the plans as part of sewer installation.
7. FRSIA sanitary sewer service connection permits will not be issued under the Standard FRSIA process until after the FRSIA has issued a "Notice of Completion" for the sewer.

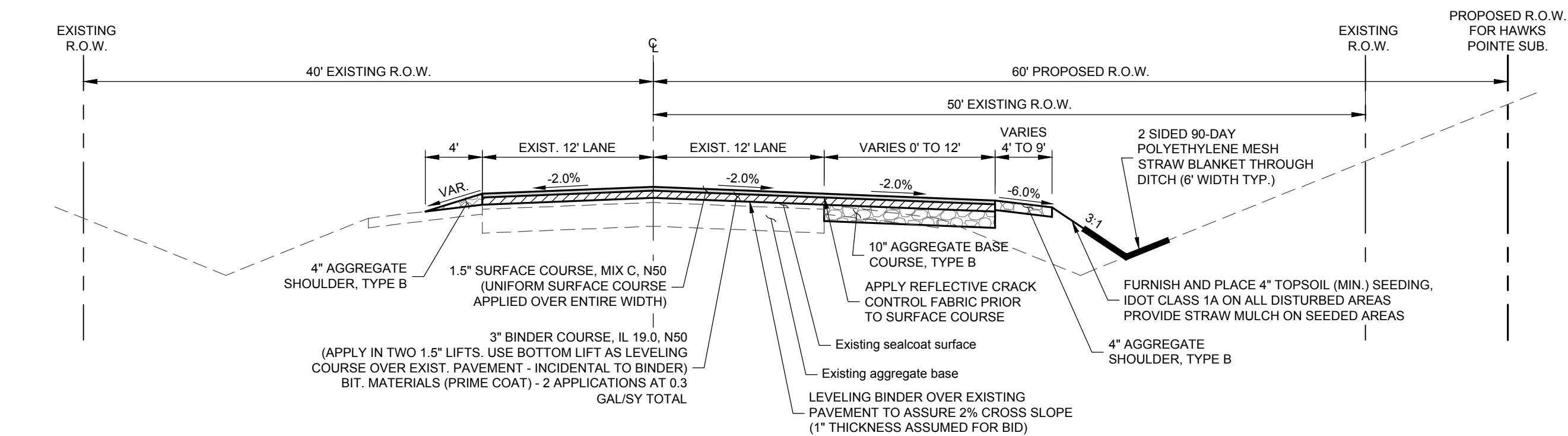
ITEM	UNIT	TOTAL QUANTITY
EARTH EXCAVATION, CUT TO FILL	CU YD	20489
TOPSOIL EXCAVATION AND PLACEMENT (6" ASSUMED)	CU YD	3336
TOPSOIL EXCAVATION AND STOCKPILE	CU YD	2274
SEEDING, CLASS 1A	ACRE	1.58
SEEDING, CLASS 3	ACRE	1.25
SEEDING, CLASS 4B	ACRE	0.95
NITROGEN FERTILIZER NUTRIENT	POUND	340
PHOSPHORUS FERTILIZER NUTRIENT	POUND	340
POTASSIUM FERTILIZER NUTRIENT	POUND	340
EROSION CONTROL BLANKET	SQ YD	9800
INLET AND PIPE PROTECTION	EACH	20
STONE RIPRAP, CLASS B5	SQ YD	67
FILTER FABRIC FOR RIPRAP	SQ YD	67
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	133
CLEARING AND GRUBBING	ACRE	0.03

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	232
ROCK FILL	CU YD	232
PAVEMENT REMOVAL	SQ YD	151
TREE REMOVAL, 8"	EACH	1
SIGN REMOVAL	EACH	1
CONCRETE BARRICADE REMOVAL	EACH	1
AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	3475
BITUMINOUS MATERIALS (TACK COAT)	POUND	541
BITUMINOUS MATERIALS (PRIME COAT)	GAL	1366
REFLECTIVE CRACK CONTROL	FOOT	1330
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	765
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	786
LEVELING BINDER	TON	181
AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	1141
COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 (MODIFIED)	FOOT	1496
TRENCH BACKFILL	CU YD	600
PCC SIDEWALK, 4" (BY BUILDER)	SQ FT	7088
AGGREGATE BASE COURSE, TYPE B 4" (BY BUILDER)	SQ YD	788
DRIVEWAY APRON IN R.O.W. (2" HMA OVER 8" STONE)	SQ YD	476
STOP SIGN, 30" ON WOOD POST	EACH	1
PAINT PAVEMENT MARKING - LINE 12"	FOOT	227
PAINT PAVEMENT MARKING - LINE 8"	FOOT	146
PAINT PAVEMENT MARKING - LINE 4"	FOOT	7138
PAINT PAVEMENT MARKING - SYMBOLS	SQ FT	8

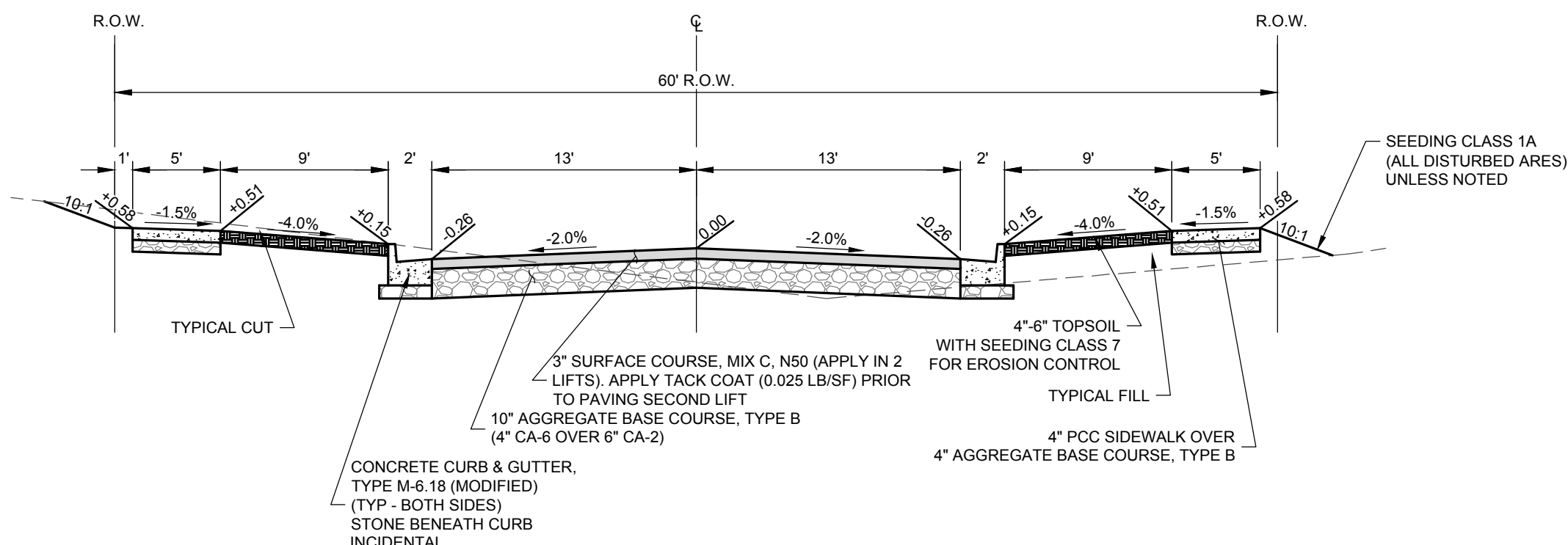
ITEM	UNIT	TOTAL QUANTITY
REMOVE CMP CULVERT PIPE 30"	FOOT	68
REMOVE METAL END SECTION 30"	EACH	2
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1
5" PVC PIPE GROUTED IN 12" END SECTION	FOOT	3
6" PVC PIPE GROUTED IN 12" END SECTION	FOOT	3
STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	148
STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	146
STORM SEWERS, CLASS A, TYPE 1 15" GASKETED	FOOT	85
STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	73
STORM SEWERS, CLASS A, TYPE 1 18" GASKETED	FOOT	104
STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	164
STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	215
STORM SEWERS, CLASS A, TYPE 1 30" GASKETED	FOOT	146
STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	30
STORM SEWERS, CLASS A, TYPE 1 36" GASKETED	FOOT	125
INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	5
INLET 700	EACH	1
INLETS, SPECIAL NO. 1	EACH	2
INLETS, SPECIAL NO. 2	EACH	6
MANHOLE TYPE A, 4' DIA. W/ TYPE 1 FRAME OPEN LID	EACH	1
MANHOLE TYPE A, 5' DIA. W/ STANDARD CURB BOX	EACH	1
CORRUGATED METAL PIPE, 18"	FOOT	72
METAL END SECTION, 18"	EACH	2

RELOCATE EXISTING HYDRANT & VALVE BOX ON SAME TEE	EACH	1
ADJUST VALVE BOX	EACH	1
REMOVE FLUSHING WHIP & VALVE	EACH	1
CONNECT TO EX. WATER MAIN W/ 12" X 8" TAPPING SLEEVE, VALVE & BOX	EACH	1
ZINC COATED D.I. WATER MAIN, 8"	FOOT	169
HDPE WATER SERVICE LINE 2"	FOOT	217
CORPORATION STOPS 2"	EACH	7
DOMESTIC WATER SERVICE BOX, 2"	EACH	7
45-DEGREE BEND, 8"	EACH	4
WATER MAIN PROTECTION SLEEVE, 16"	FOOT	22
2" KUPFERLE MAIN GUARD #77 HYDRANT W/ 8" X 2" MJ TAPPED PLUG	EACH	1

REMOVE SANITARY MANHOLE	EACH	1
REMOVE SANITARY SEWER, 8"	FOOT	17
RECONSTRUCT SANITARY MANHOLE	EACH	5
4' DIA. SANITARY MANHOLE	EACH	2
PVC SDR-26 WMMQ / ASTM D-2241 SANITARY, 6"	FOOT	198
PVC SDR-26 WMMQ / ASTM D-2241 SANITARY, 8"	FOOT	17
PVC SDR 35 / ASTM D-3034 SANITARY, 8"	FOOT	147
SANITARY CLEANOUTS	EACH	7



TYPICAL SECTION - ROSCOE ROAD



TYPICAL SECTION - HAWKS POINTE TRAIL & SPARROW LANE



PROJECT NAME _____
OWNER'S NAME _____

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR	DATE
1. AGENCY REVIEW	08-03-2022
2. AGENCY APPROVAL	09-29-2022
3. AGENCY APPROVAL	10-06-2022
4. AGENCY APPROVAL	11-16-2022
5. ---	---
6. ---	---
7. ---	---
8. ---	---
9. ---	---
10. ---	---
11. ---	---
12. ---	---

REVISIONS	
ITEM	DATE
1. ----	----
2. ----	----
3. ----	----
4. ----	----
5. ----	----
6. ----	----

SHEET TITLE

GENERAL NOTES, TYPICAL SECTIONS & SUMMARY OF QUANTITIES

DRAWN	MJH
CHECKED	JSL
PM	JSL

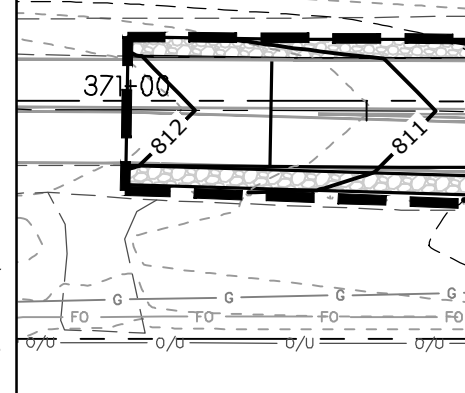
PROJECT NUMBER
SHEET NUMBER

22012
C02

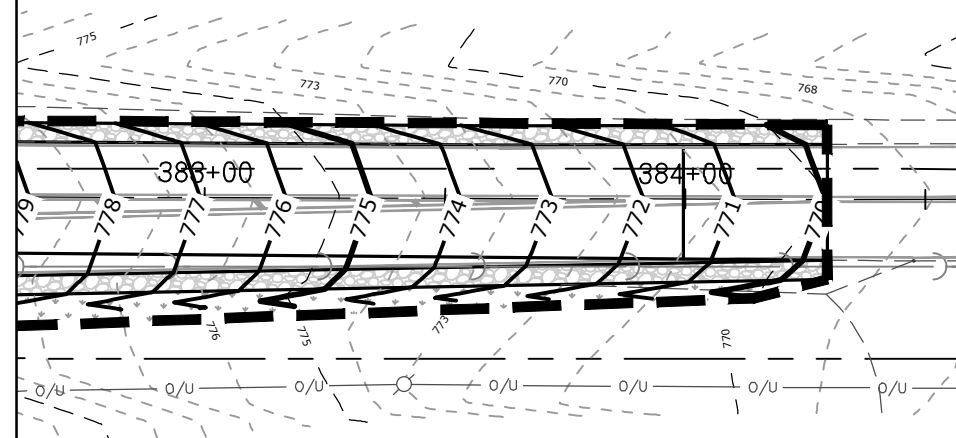
SEE DETAIL A
MATCH LINE

MATCH LINE
SEE DETAIL B

DETAIL A



DETAIL B



ALL OTHER DISTURBED AREAS:
IDOT CLASS 1A PER VILLAGE
REQUIREMENTS

ROSCOE ROAD

HAWKS POINTE TRAIL

SPARROW LANE

TOTAL DISTURBED AREA= 7.26 AC
SEED RESTORATION TABLE:
CLASS 1A = 0.26 AC (COUNTY)
CLASS 3 = 1.25 AC
CLASS 4B = 0.95 AC
CLASS 1A = 1.32 AC (INTERNAL)

LEGEND

SEE SITE PLAN SET FOR EXISTING SYMBOLS

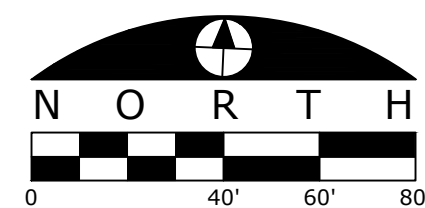
- PROPERTY LINE
- LIMITS OF DISTURBANCE
- PERMANENT STORM SEWER FLOWING TO THE LEFT. SEE SITE DRAINAGE PLAN FOR PERMANENT STORM SEWER INFORMATION
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED CURB AND GUTTER
- PROPOSED CATCH BASIN OR MANHOLE
- DIRECTION OF OVERLAND FLOOD ROUTE
- DIRECTION OF OVERLAND FLOW AND SLOPE
- GRASS AREA (SEE PLAN NOTES FOR SEED TYPE)
- SEE SPECIFIC KEY NOTE ON THIS SHEET

EROSION DETAILS (SEE SWPPP DETAILS SHEET FOR ITEMS BELOW)

- 1.01 CE TEMPORARY STONE CONSTRUCTION EXIT
- 1.02 SF TEMPORARY SILT FENCE
- 1.03 IP INLET PROTECTION PER STRUCTURE TYPE
- 1.04 OCP OUTLET CONTROL PROTECTION
- 1.05 CD TEMPORARY CHECK DAM
- 1.06 BLS SHORT TERM SLOPE EROSION CONTROL BLANKET
- 1.07 ST SEDIMENT TRAP

EROSION CONTROL REFERENCE NOTES

- 1.01 SEE CONSTRUCTION EXIT DETAIL IL-630 FROM THE ILLINOIS URBAN MANUAL (THIS DETAIL AND OTHERS CAN BE FOUND IN THE SWPPP BINDER FOR THIS SITE). THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 24" IN WIDTH AND 50' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST TERMINATE AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.
- 1.02 THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION. REMOVAL OF ANY PORTION OF THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE SWPPP SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.
- 1.03 NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES THAT WILL NOT RECEIVE A CASTING WITHIN 48 HOURS OF INSTALLATION SHALL RECEIVE INLET PROTECTION. UPON INSTALLATION OF THE GRATE, INLET PROTECTION SHALL BE INSTALLED RESPECTIVE TO THE TYPE OF GRATE. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTION FOLLOWING INSTALLATION OF LID. CONTRACTOR SHALL NOTE TIME STRUCTURE INSTALLATION AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.
- 1.04 OCP SHALL BE PLACED TO PROTECT THE UPSTREAM END OF THE PERMANENT OUTFALL PIPE PRIOR TO PIPE INSTALLATION. SEE PLAN FOR FINAL LOCATION AND TOP OF OCP ELEVATION. FOLLOWING BASIN SIDE SLOPE STABILIZATION, THE OCP SHALL BE REPLACED WITH THE PERMANENT RIPRAP PAD SPECIFIED ON THE SITE DRAINAGE PLAN.
- 1.05 SHORT TERM EROSION CONTROL FABRIC NAG SC150 SHALL BE APPLIED TO ALL SLOPES 4:1 OR STEEPER THAN 4:1 PRIOR TO PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE NAG SC150 HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE BOUNDARIES TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SPECIFIED ON THE LANDSCAPING PLAN AS SOON AS FINAL BASIN GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN FOR EXACT GROUND COVER TYPE AND LOCATION.
- 1.06 OFFSITE UTILITY TRENCHING SPOILS MUST BE TREATED AS STOCKPILES FOR SWPPP PURPOSES. BMP'S MUST PROTECT THE SIDE OF THE SPOIL STOCKPILE THAT IS FARTHEST AWAY FROM THE TRENCH. INTERMEDIATE BMP'S SHALL BE LOCATED IN THE FIELD TO PREVENT DOWNSTREAM SEDIMENT RUNOFF. NO MORE THAN 100 LF OF TRENCH MAY REMAIN OPEN AT ANY ONE TIME. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRADE AND VEGETATION THROUGHOUT THE DISTURBED AREA. THE CONTRACTOR SHALL ENSURE THAT THE OFFSITE WORK ZONES POSE NO PUBLIC SAFETY HAZARDS.
- 1.07 PROVIDE TEMPORARY SEDIMENT TRAP IN LOCATION OF DETENTION UNTIL DETENTION IS CONSTRUCTED. SEE IUM CONSTRUCTION SPECIFICATION AND DEWATERING DETAIL INCLUDED IN SWPPP BINDER



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www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

1.	AGENCY REVIEW	08-03-2022
2.	AGENCY APPROVAL	08-29-2022
3.	AGENCY APPROVAL	10-06-2022
4.	AGENCY APPROVAL	11-16-2022
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SHEET TITLE

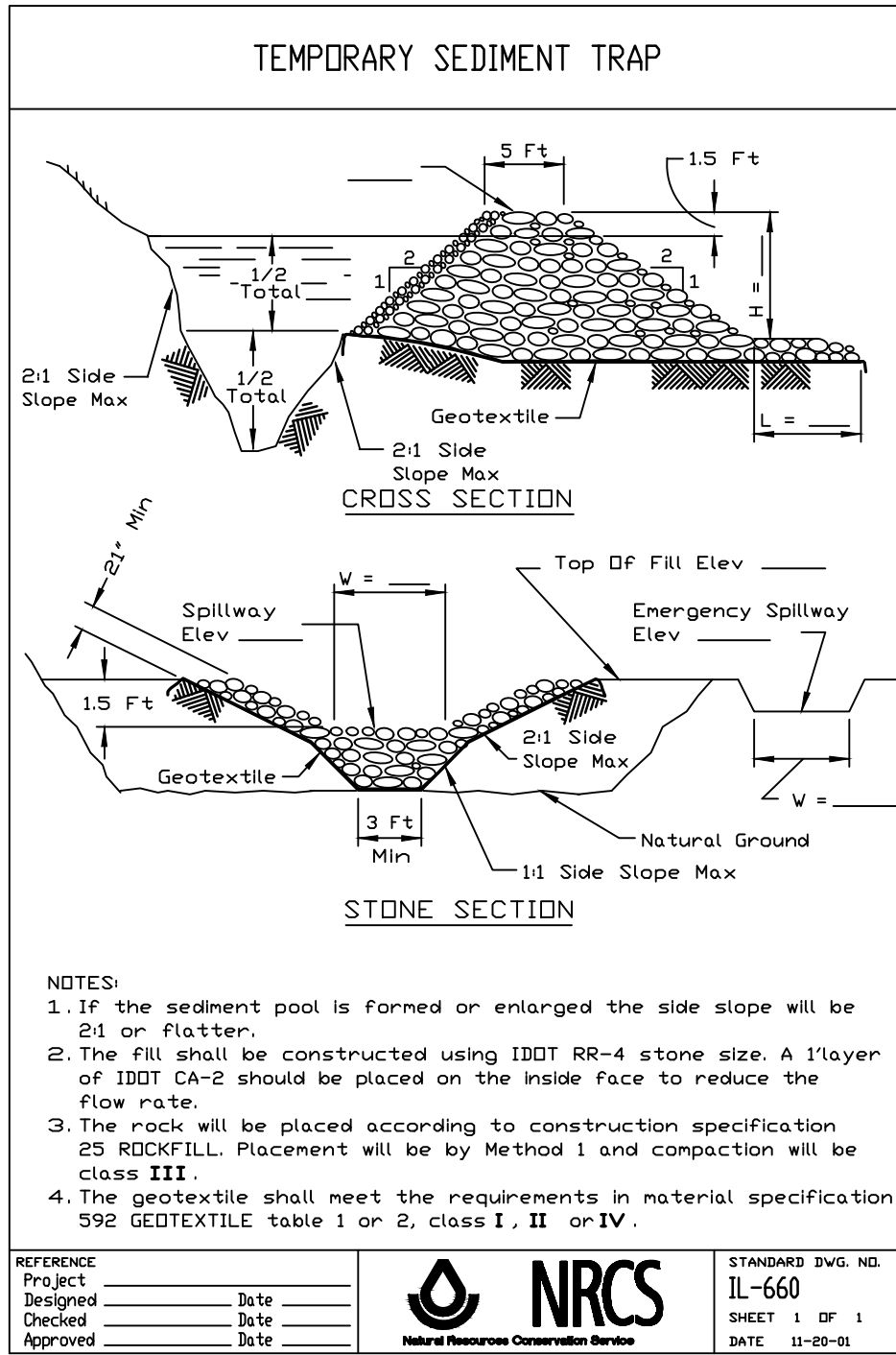
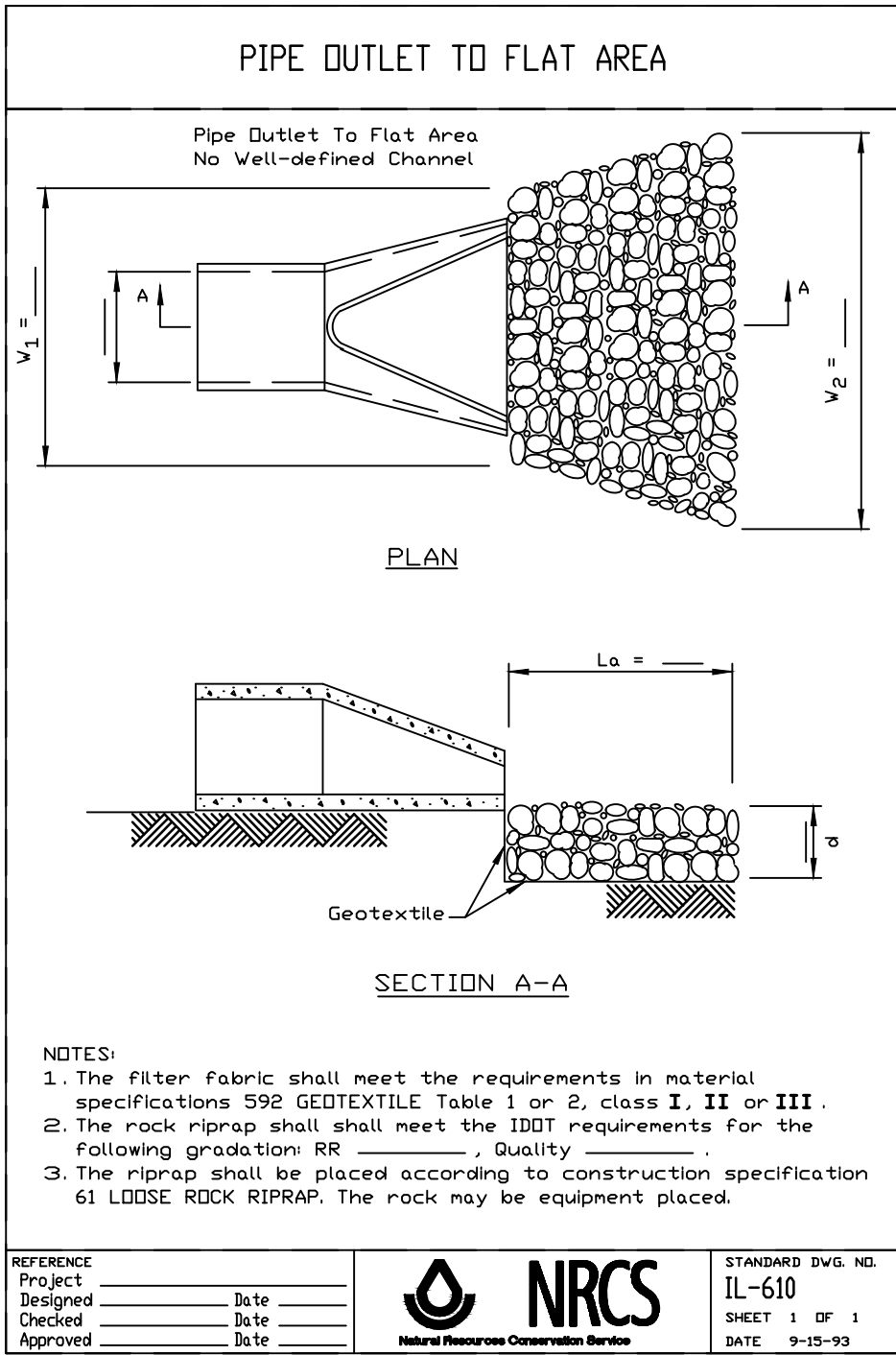
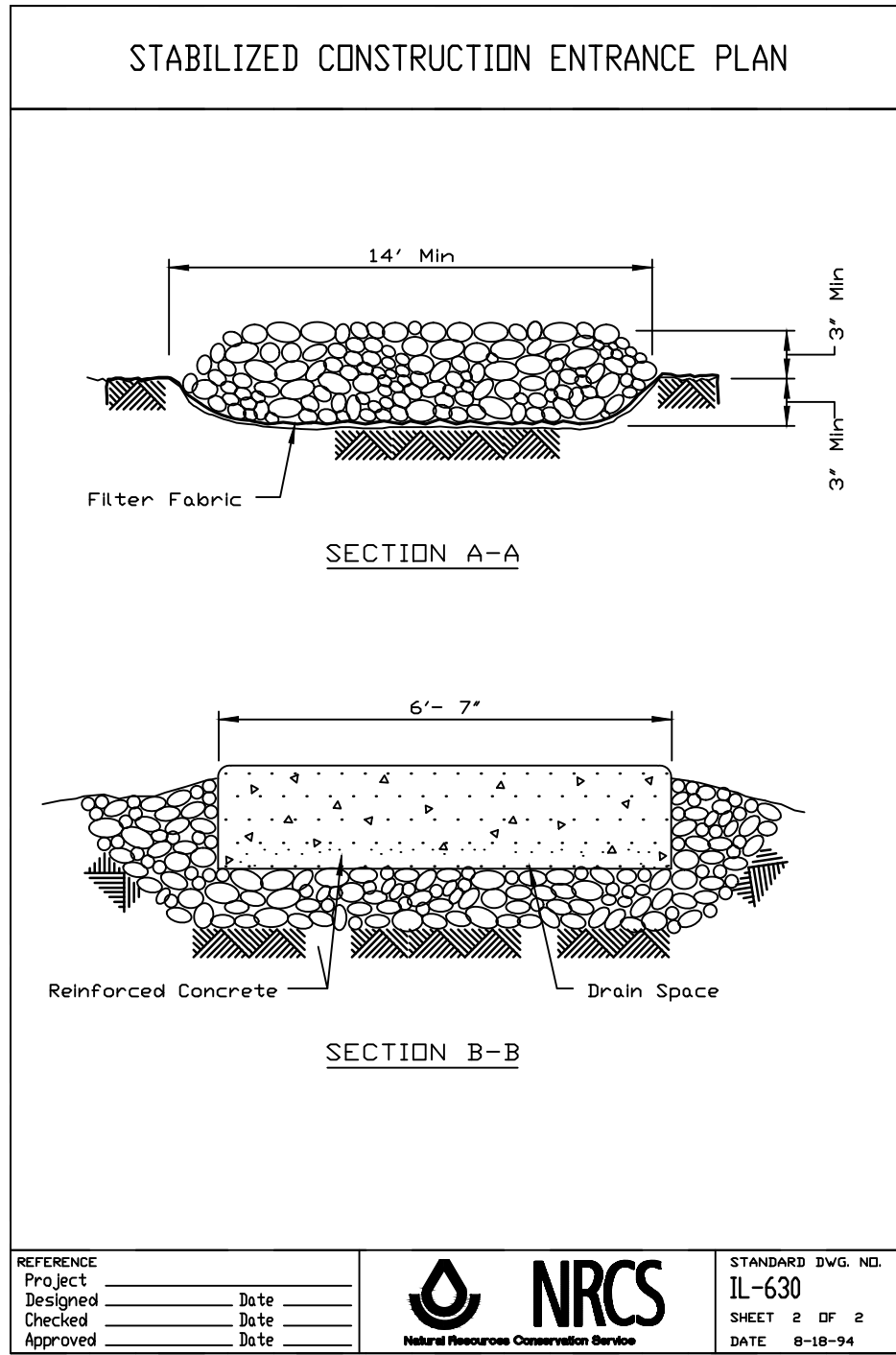
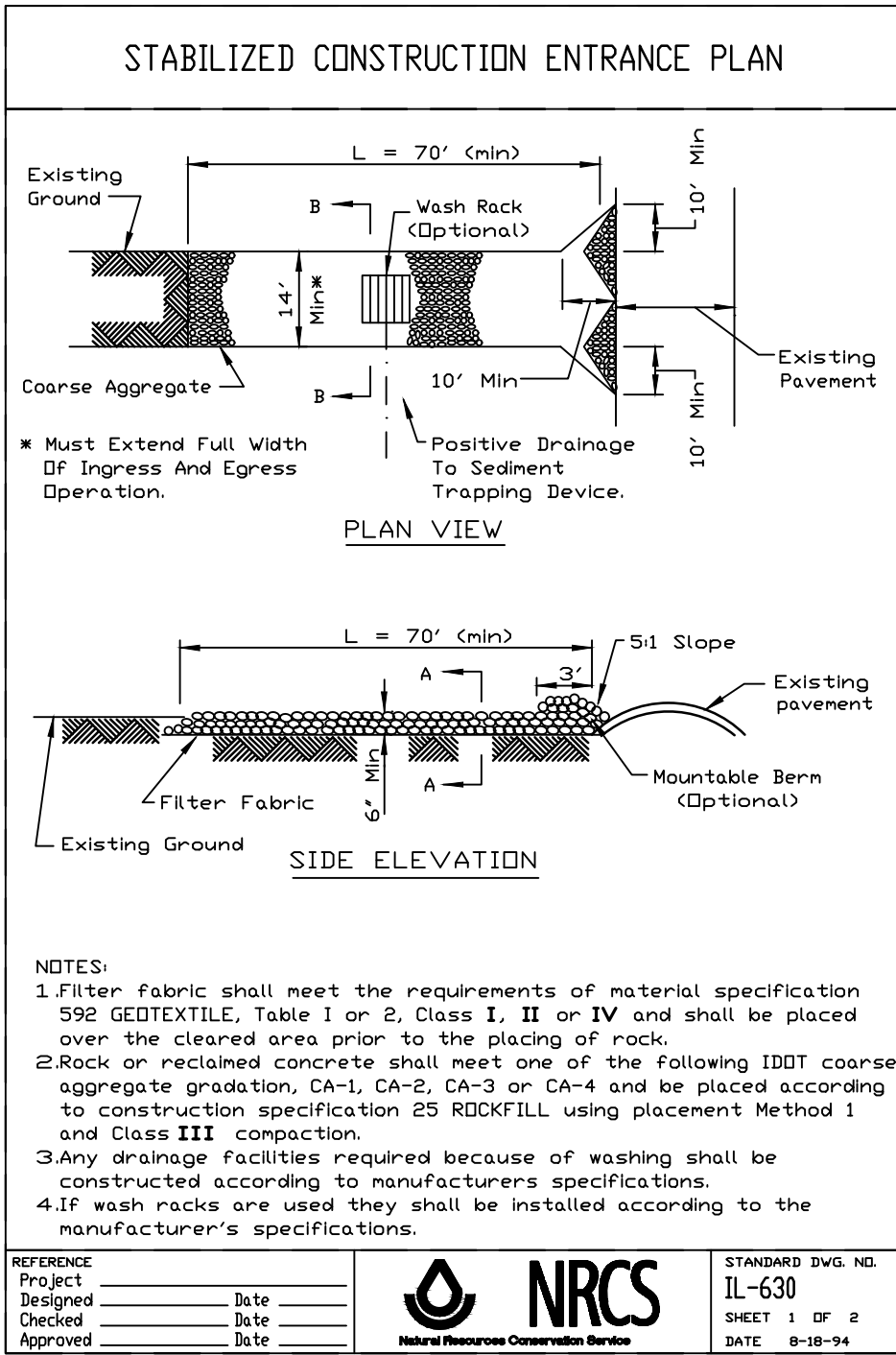
SWPPP SITE MAP

DRAWN DB
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

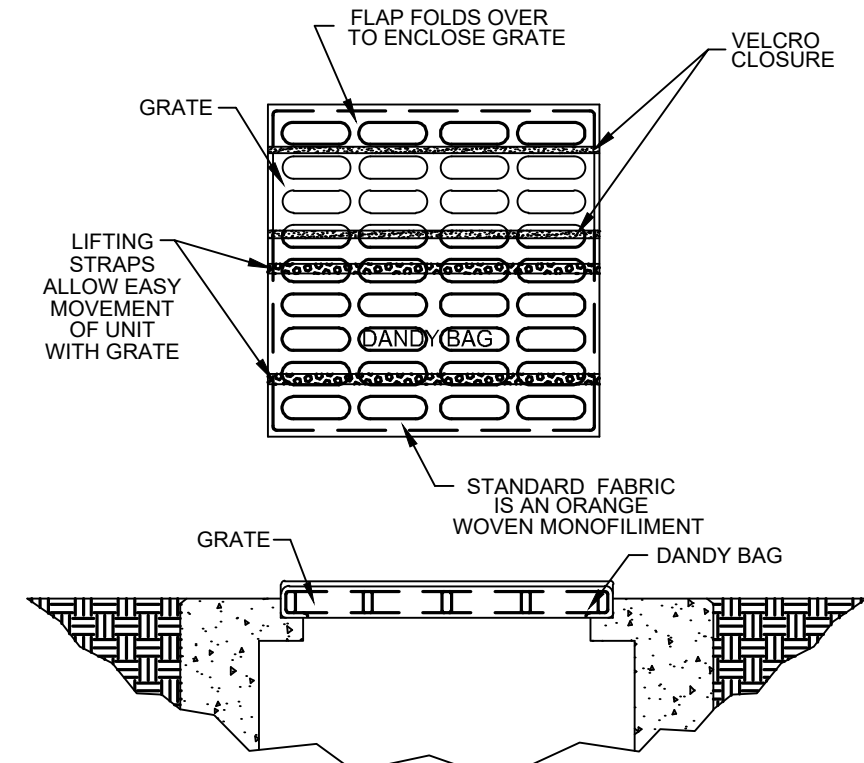
22012

C03



TEMP. DANDY PRODUCTS, INC. DANDY BAG

NOT TO SCALE

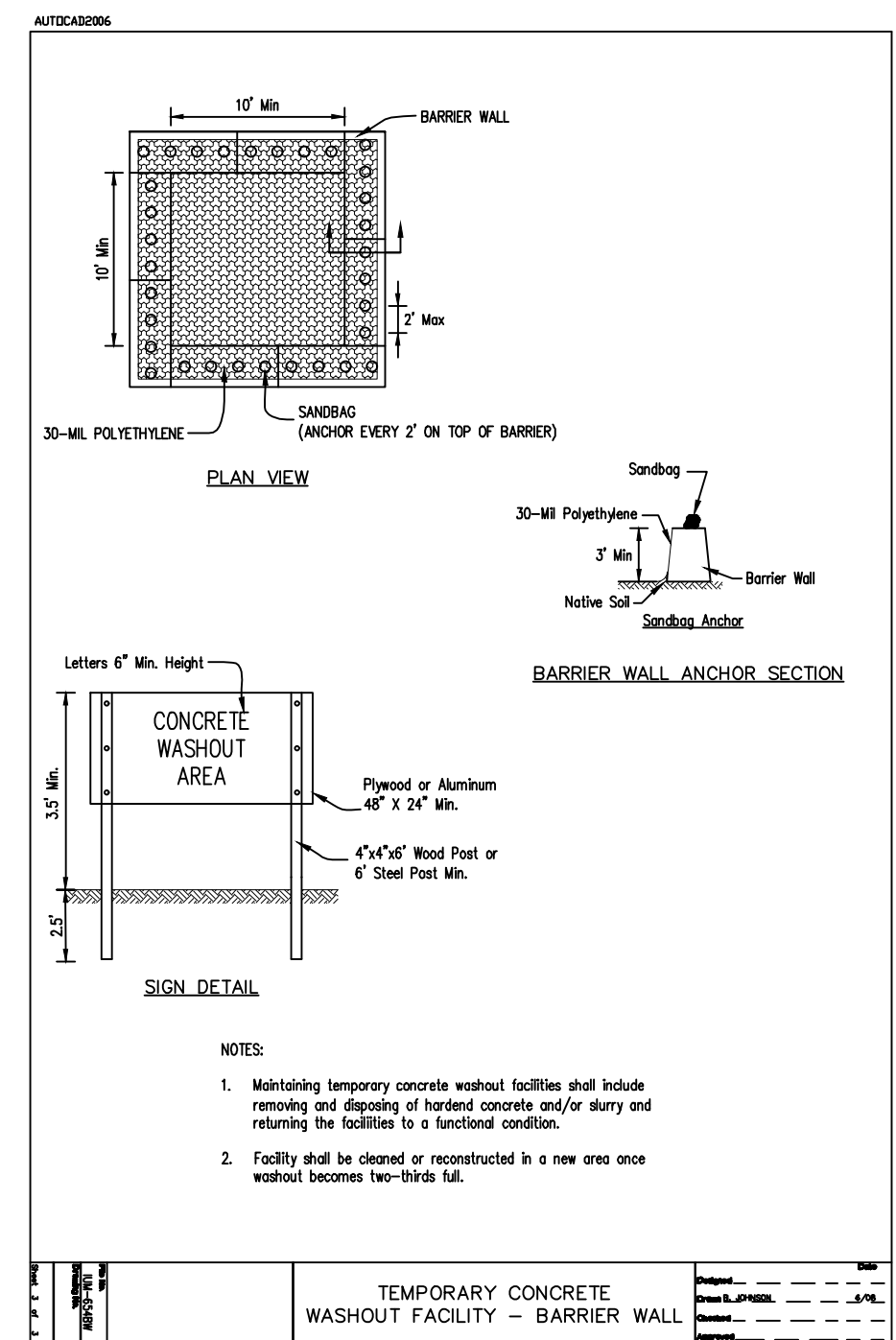
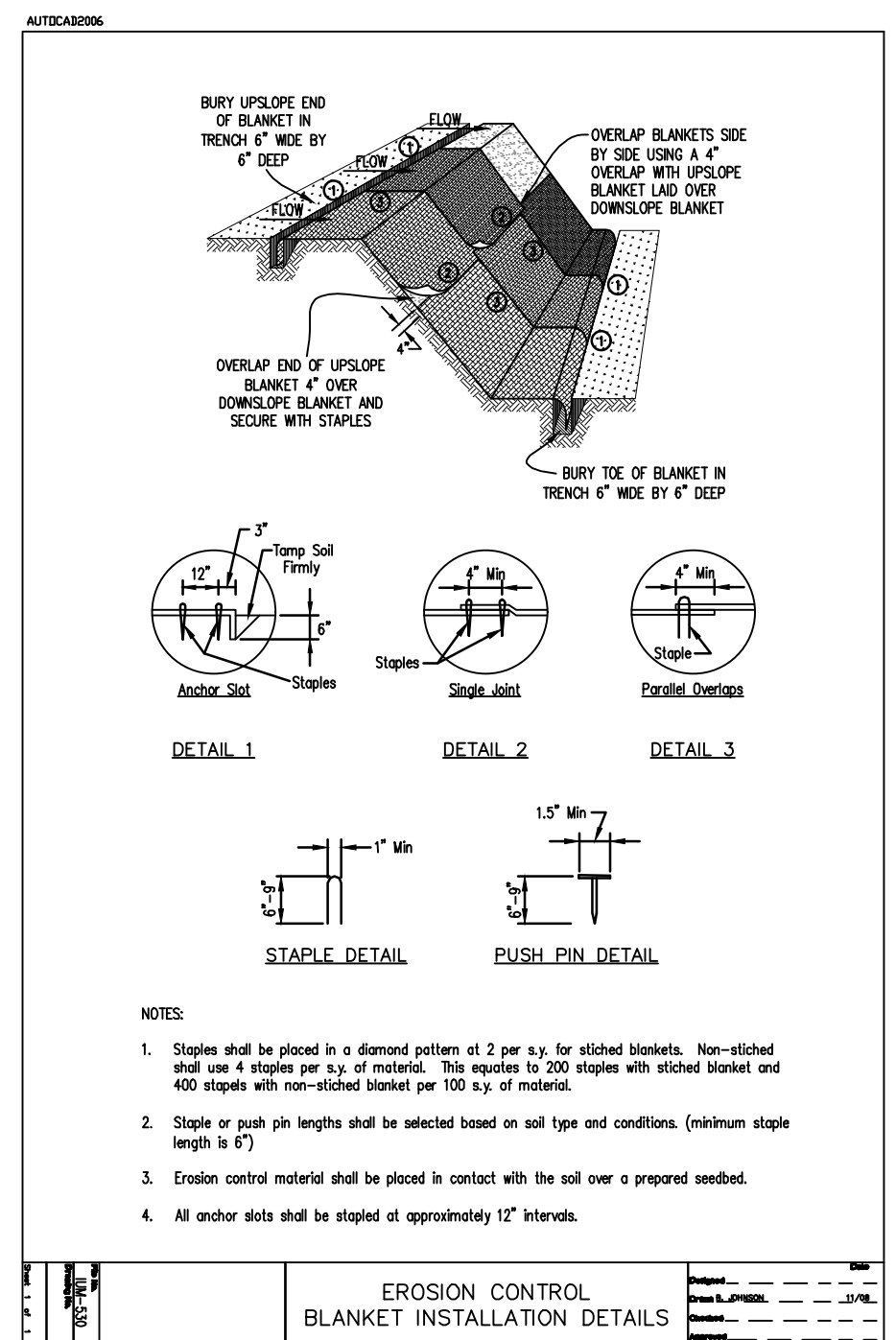
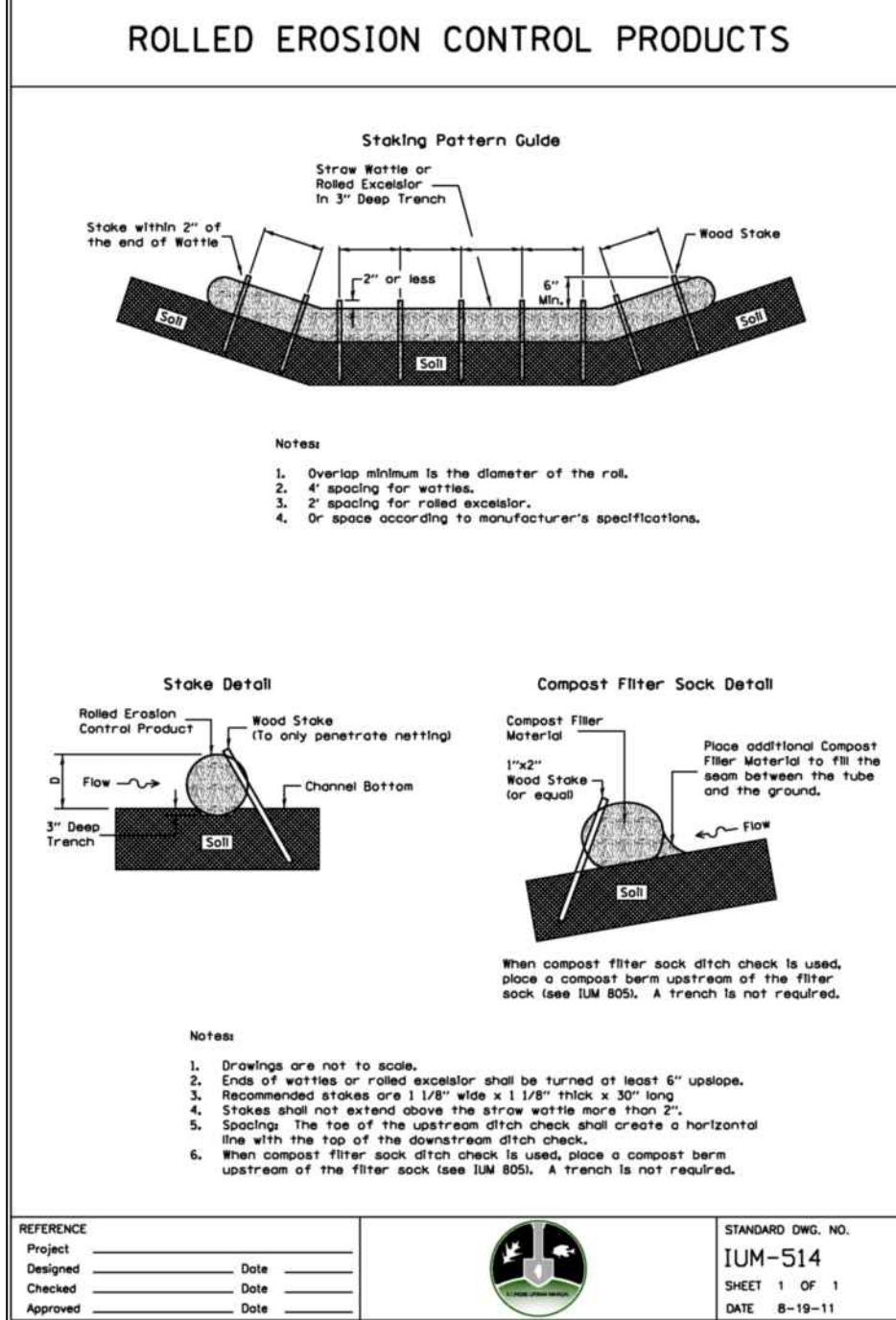
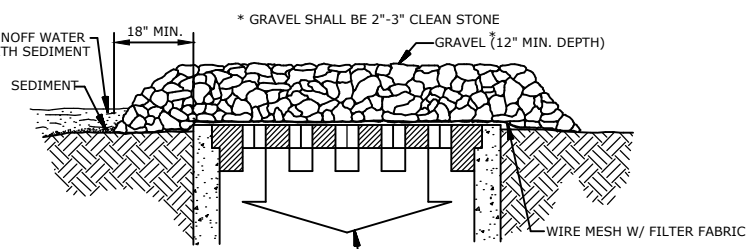


INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

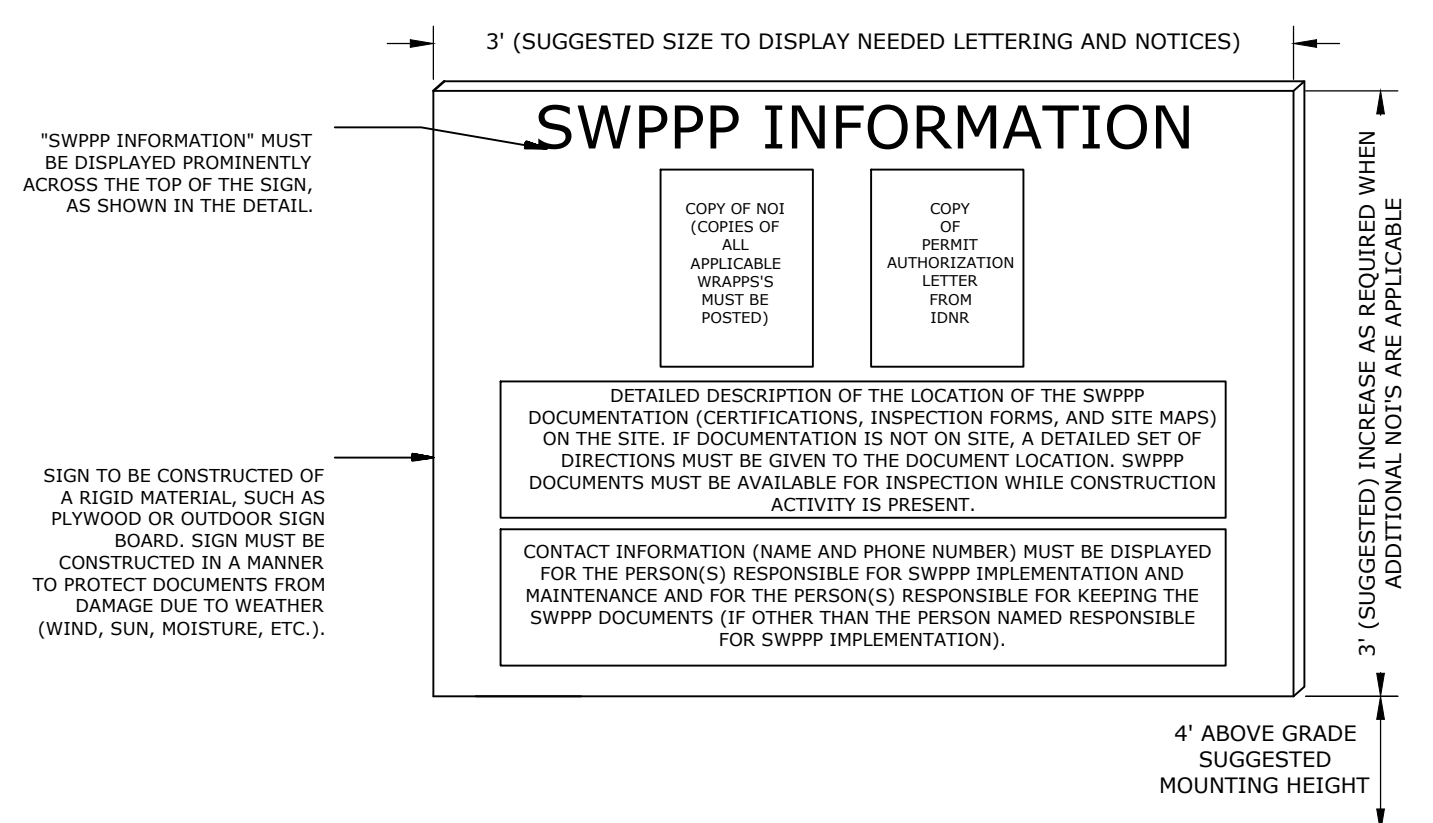
TEMP. GRAVEL AND WIRE MESH INLET SEDIMENT FILTER

NOT TO SCALE



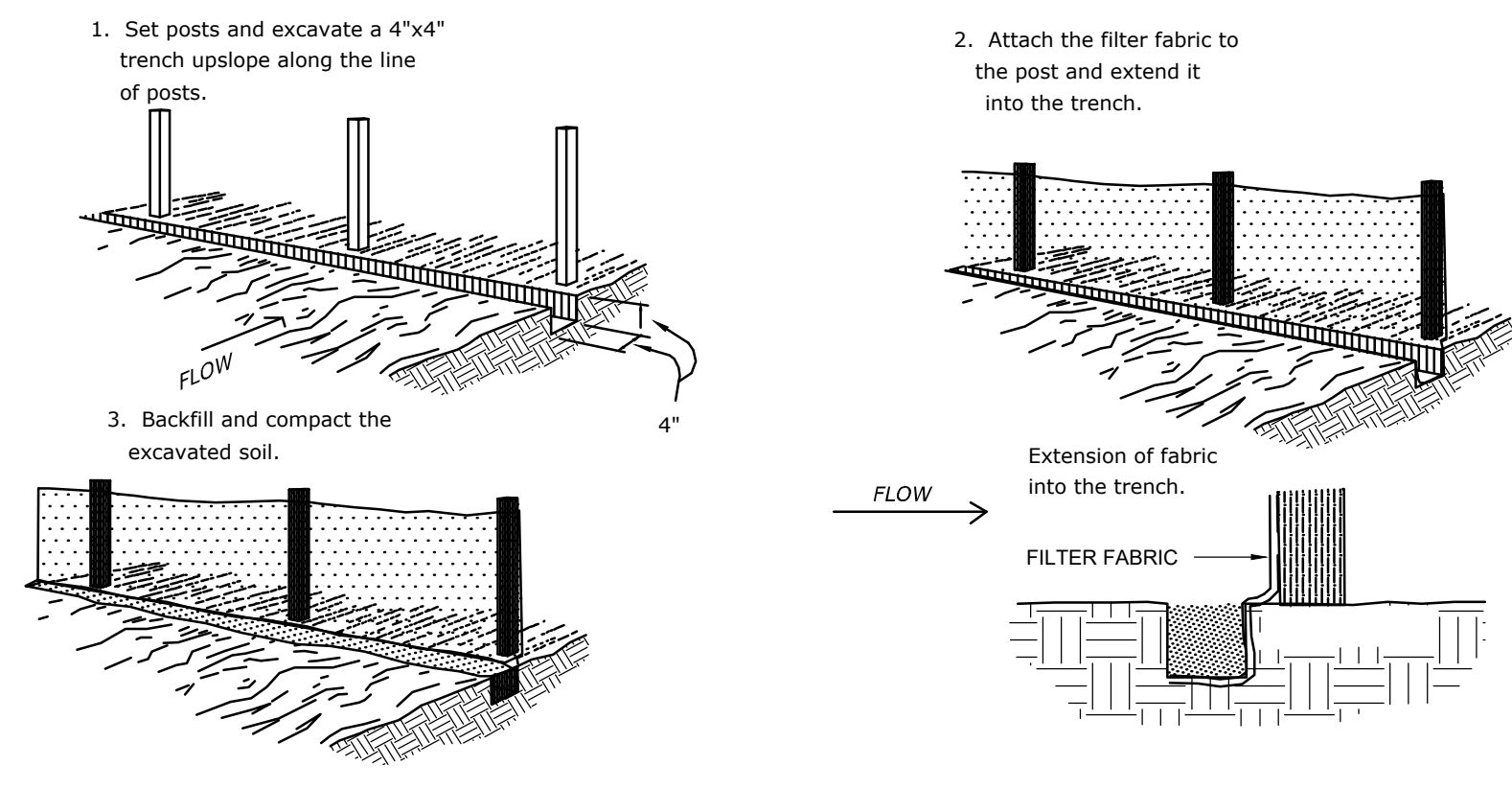
SWPPP INFORMATION SIGN (EXAMPLE)

NOT TO SCALE



TEMP. SILT FENCE (PERIMETER) DETAIL

NOT TO SCALE



ARC DESIGN
RESOURCES INC.

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LOVES PARK, IL 61111
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FAX: (815) 484-4303

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

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SHEET TITLE

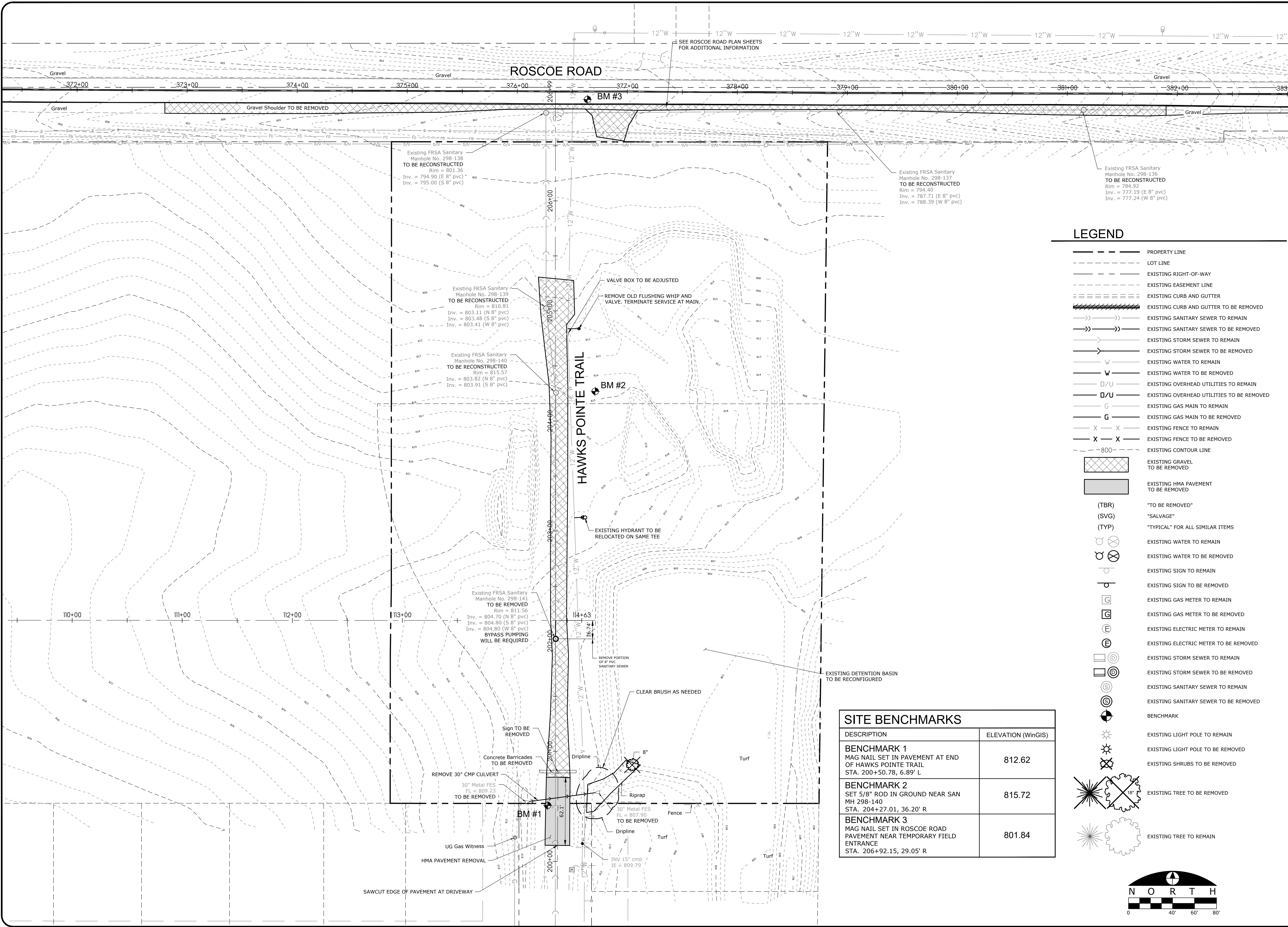
SWPPP DETAILS

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C04

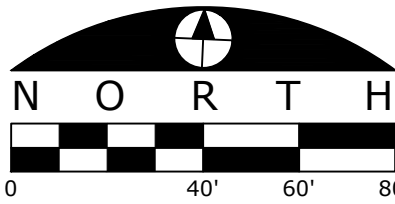


LEGEND

- PROPERTY LINE
- - - - - LOT LINE
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING EASEMENT LINE
- - - - - EXISTING CURB AND GUTTER
- ===== EXISTING CURB AND GUTTER TO BE REMOVED
- >->- EXISTING SANITARY SEWER TO REMAIN
- >->- EXISTING SANITARY SEWER TO BE REMOVED
- >->- EXISTING STORM SEWER TO REMAIN
- >->- EXISTING STORM SEWER TO BE REMOVED
- W- EXISTING WATER TO REMAIN
- W- EXISTING WATER TO BE REMOVED
- /□- EXISTING OVERHEAD UTILITIES TO REMAIN
- /□- EXISTING OVERHEAD UTILITIES TO BE REMOVED
- G- EXISTING GAS MAIN TO REMAIN
- G- EXISTING GAS MAIN TO BE REMOVED
- X-X- EXISTING FENCE TO REMAIN
- X-X- EXISTING FENCE TO BE REMOVED
- 800- EXISTING CONTOUR LINE
- [Hatched Box] EXISTING GRAVEL TO BE REMOVED
- [Solid Box] EXISTING HMA PAVEMENT TO BE REMOVED
- (TBR) "TO BE REMOVED"
- (SVG) "SALVAGE"
- (TYP) "TYPICAL" FOR ALL SIMILAR ITEMS
- EXISTING WATER TO REMAIN
- ⊗ EXISTING WATER TO BE REMOVED
- EXISTING SIGN TO REMAIN
- ⊗ EXISTING SIGN TO BE REMOVED
- EXISTING GAS METER TO REMAIN
- ⊗ EXISTING GAS METER TO BE REMOVED
- ⊗ EXISTING ELECTRIC METER TO REMAIN
- ⊗ EXISTING ELECTRIC METER TO BE REMOVED
- ⊗ EXISTING STORM SEWER TO REMAIN
- ⊗ EXISTING STORM SEWER TO BE REMOVED
- ⊗ EXISTING SANITARY SEWER TO REMAIN
- ⊗ EXISTING SANITARY SEWER TO BE REMOVED
- ⊗ BENCHMARK
- ⊗ EXISTING LIGHT POLE TO REMAIN
- ⊗ EXISTING LIGHT POLE TO BE REMOVED
- ⊗ EXISTING SHRUBS TO BE REMOVED
- ⊗ EXISTING TREE TO BE REMOVED
- ⊗ EXISTING TREE TO REMAIN

SITE BENCHMARKS

DESCRIPTION	ELEVATION (WinGIS)
BENCHMARK 1 MAG NAIL SET IN PAVEMENT AT END OF HAWKS POINTE TRAIL STA. 200+50.78, 6.89' L	812.62
BENCHMARK 2 SET 5/8" ROD IN GROUND NEAR SAN MH 298-140 STA. 204+27.01, 36.20' R	815.72
BENCHMARK 3 MAG NAIL SET IN ROSCOE ROAD PAVEMENT NEAR TEMPORARY FIELD ENTRANCE STA. 206+92.15, 29.05' R	801.84



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PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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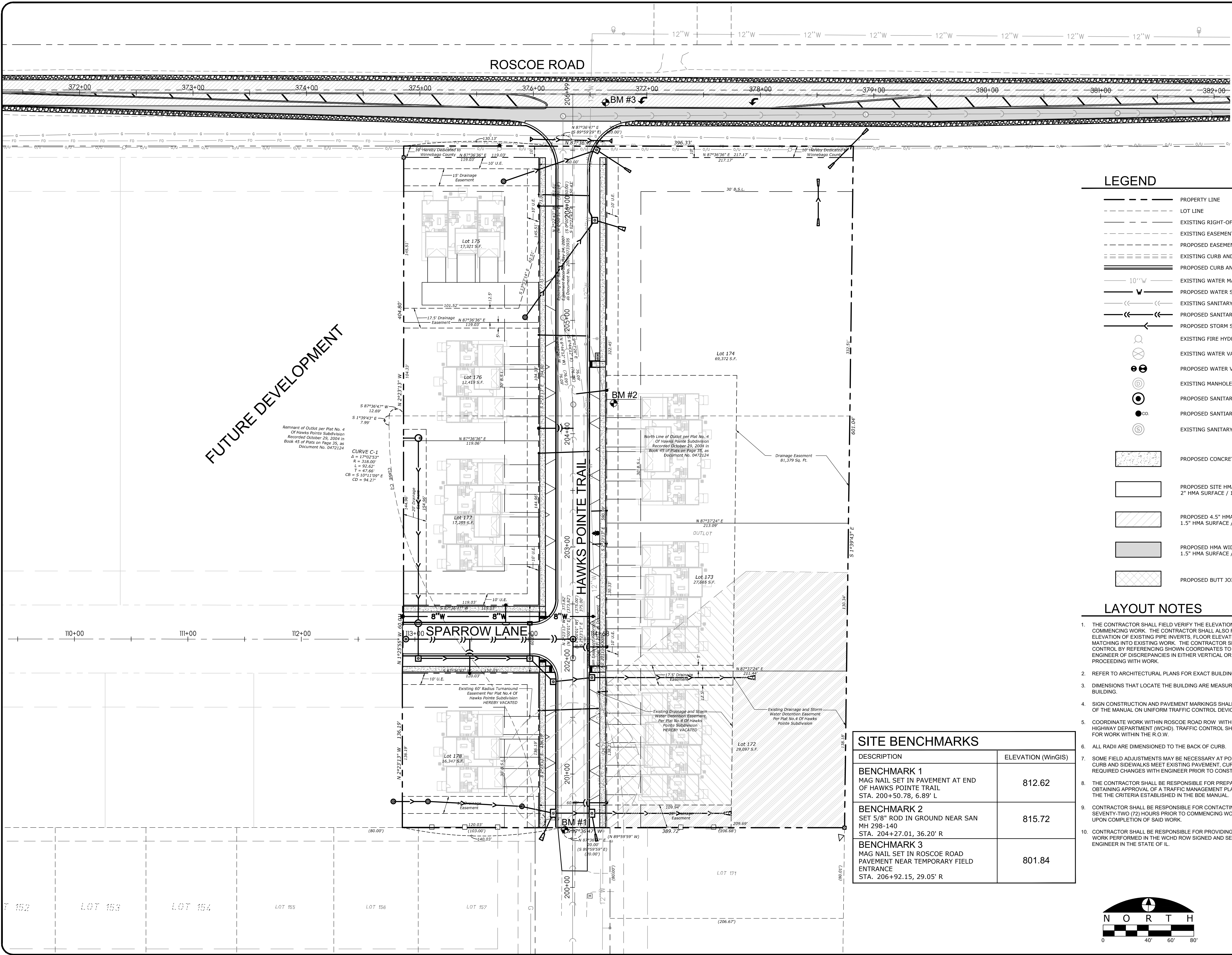
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EXISTING
CONDITIONS &
REMOVALS PLAN

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22012
C05



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PROJECT NAME
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**HAWKS POINTE
PLAT 5**

**HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY**

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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SHEET TITLE

**SITE OVERVIEW
PLAN**

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

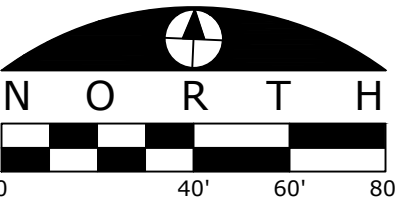
C06

LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING WATER MAIN
- PROPOSED WATER SERVICE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- EXISTING FIRE HYDRANT ASSEMBLY
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING MANHOLE OR CATCH BASIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SITE HMA PAVEMENT
2" HMA SURFACE / 10" AGGREGATE BASE
- PROPOSED 4.5" HMA OVERLAY
1.5" HMA SURFACE / 3" HMA BINDER
- PROPOSED HMA WIDENING
1.5" HMA SURFACE / 3" HMA BINDER / 10" AGGREGATE BASE
- PROPOSED BUTT JOINT

LAYOUT NOTES

- 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.
- REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
- DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- COORDINATE WORK WITHIN ROSCOE ROAD ROW WITH THE WINNEBAGO COUNTY HIGHWAY DEPARTMENT (WCHD). TRAFFIC CONTROL SHALL CONFORM TO IDOT STANDARDS FOR WORK WITHIN THE R.O.W.
- ALL RADII ARE DIMENSIONED TO THE BACK OF CURB.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE CRITERIA ESTABLISHED IN THE BDE MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING WCHD AT (815) 319-4000 SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING WORK WITHIN THE COUNTY ROW AND UPON COMPLETION OF SAID WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WCHD WITH AS-BUILT PLANS OF WORK PERFORMED IN THE WCHD ROW SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF IL.



PROJECT NAME
OWNER'S NAME

**HAWKS POINTE
PLAT 5**

**HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY**

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

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REVISIONS

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SHEET TITLE

SITE GRADING PLAN

DRAWN M.J.H.
CHECKED J.S.L.
PM J.S.L.

PROJECT NUMBER
SHEET NUMBER

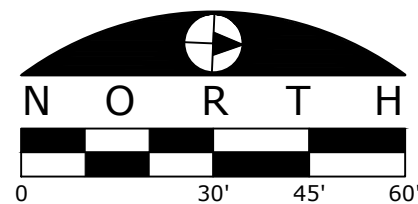
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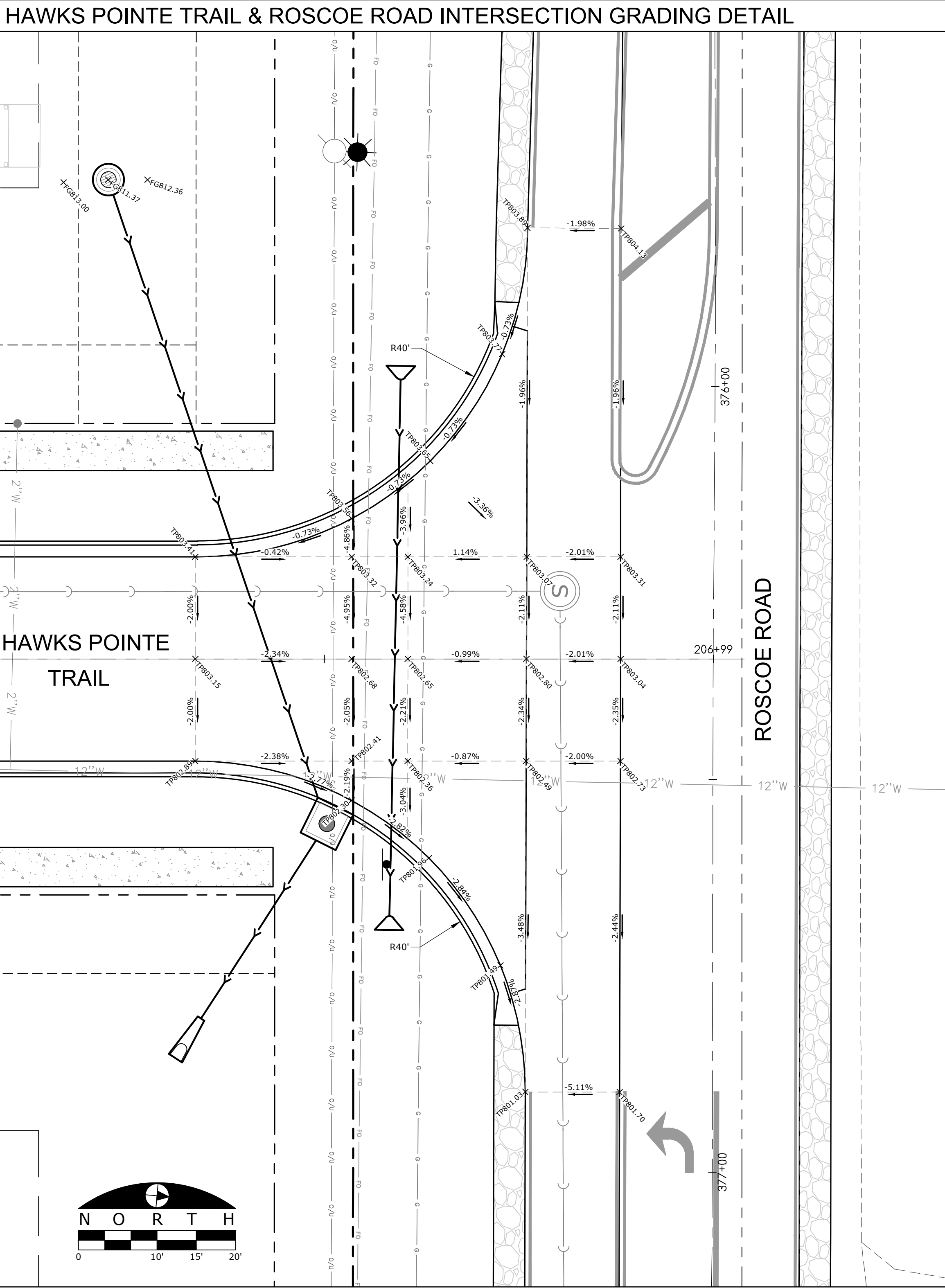
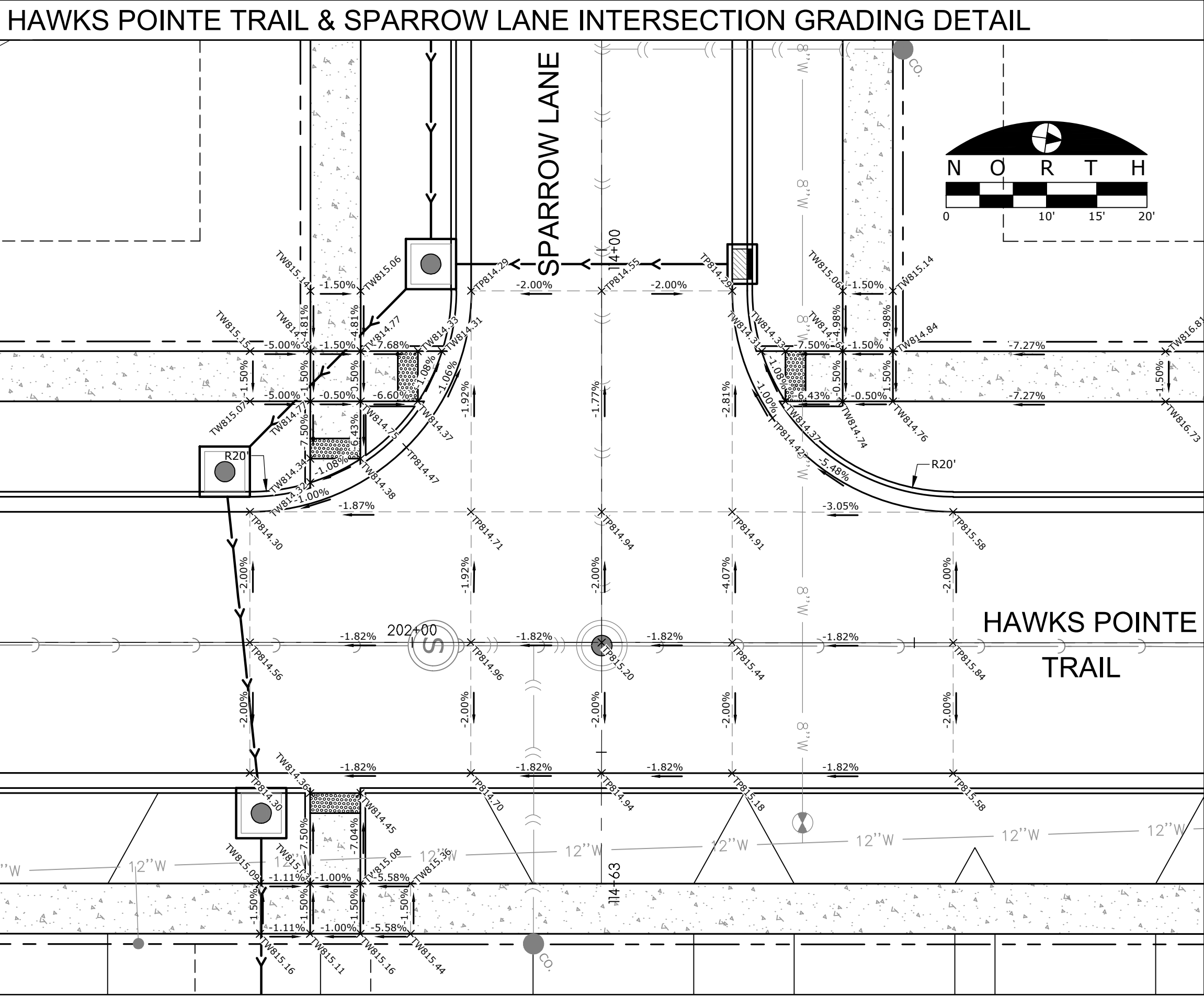
C07

SITE BENCHMARKS

DESCRIPTION	ELEVATION (WinGIS)
BENCHMARK 1 MAG NAIL SET IN PAVEMENT AT END OF HAWKS POINTE TRAIL	812.62
BENCHMARK 2 SET 5/8" ROD IN GROUND NEAR SAN MH 298-140, APPROX. 35' EAST	815.72
BENCHMARK 3 MAG NAIL SET IN ROSCOE ROAD PAVEMENT NEAR TEMPORARY FIELD ENTRANCE	801.84

STORM WATER
MANAGEMENT
BASIN A
STORAGE = 5.31 AC-FT
HWL = 806.00
BASIN B
STORAGE = 0.20 AC-FT
HWL = 802.00





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PROJECT NAME
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HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
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SHEET TITLE

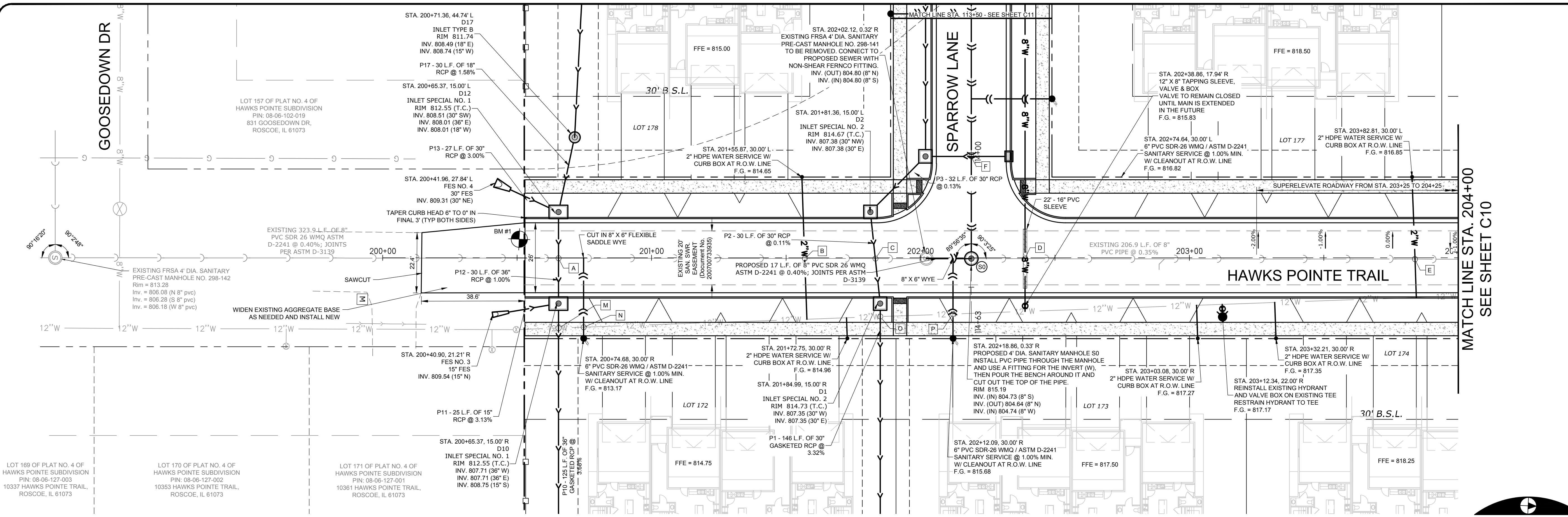
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DETAILS

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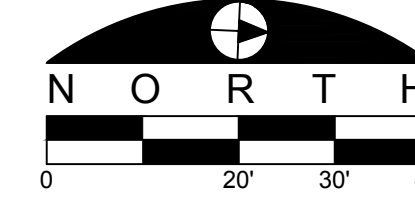
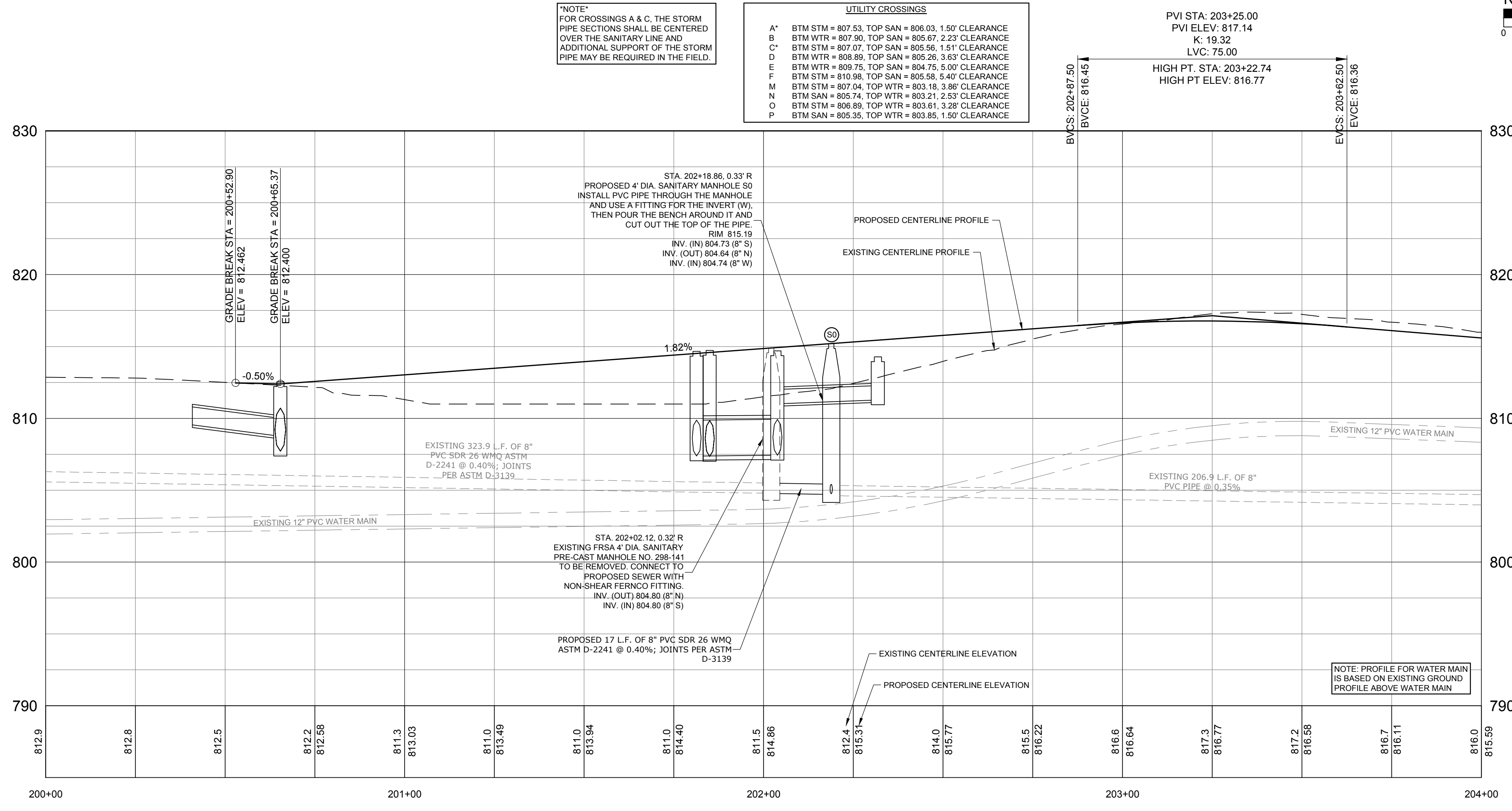
MJH
JSL
JSL

PROJECT NUMBER
SHEET NUMBER

22012
C08



SITE BENCHMARKS	
DESCRIPTION	ELEVATION (WINGIS)
BENCHMARK 1 MAG NAIL SET IN PAVEMENT AT END OF HAWKS POINTE TRAIL STA. 200+50.78, 6.89' L	812.62
BENCHMARK 2 SET 5/8" ROD IN GROUND NEAR SAN MH 298-140 STA. 204+27.01, 36.20' R	815.72
BENCHMARK 3 MAG NAIL SET IN ROSCOE ROAD PAVEMENT NEAR TEMPORARY FIELD ENTRANCE STA. 206+92.15, 29.05' R	801.84



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HAWKS POINTE
PLAT 5

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ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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SHEET TITLE

HAWKS POINTE
TRAIL PLAN &
PROFILE STA.
200+53 TO 204+00

DRAWN	DB
CHECKED	JSL
PM	JSL

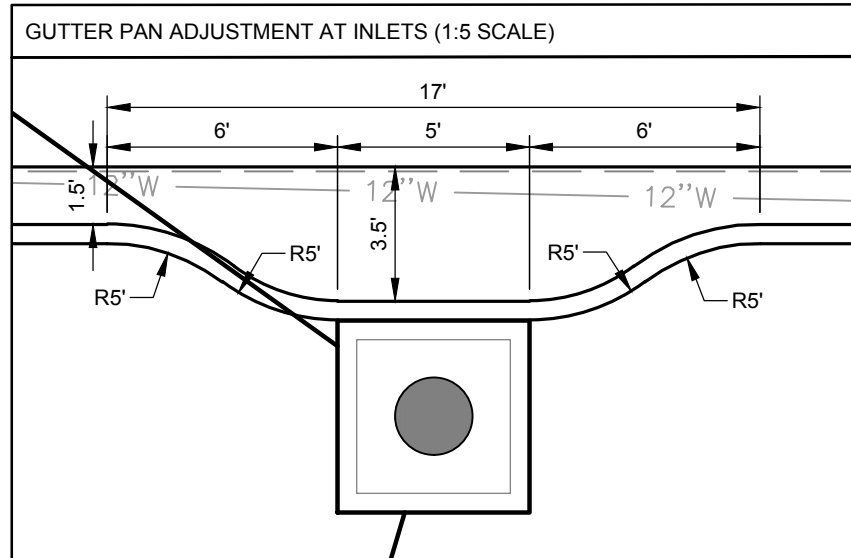
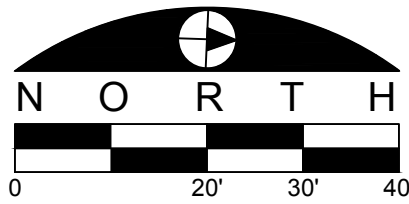
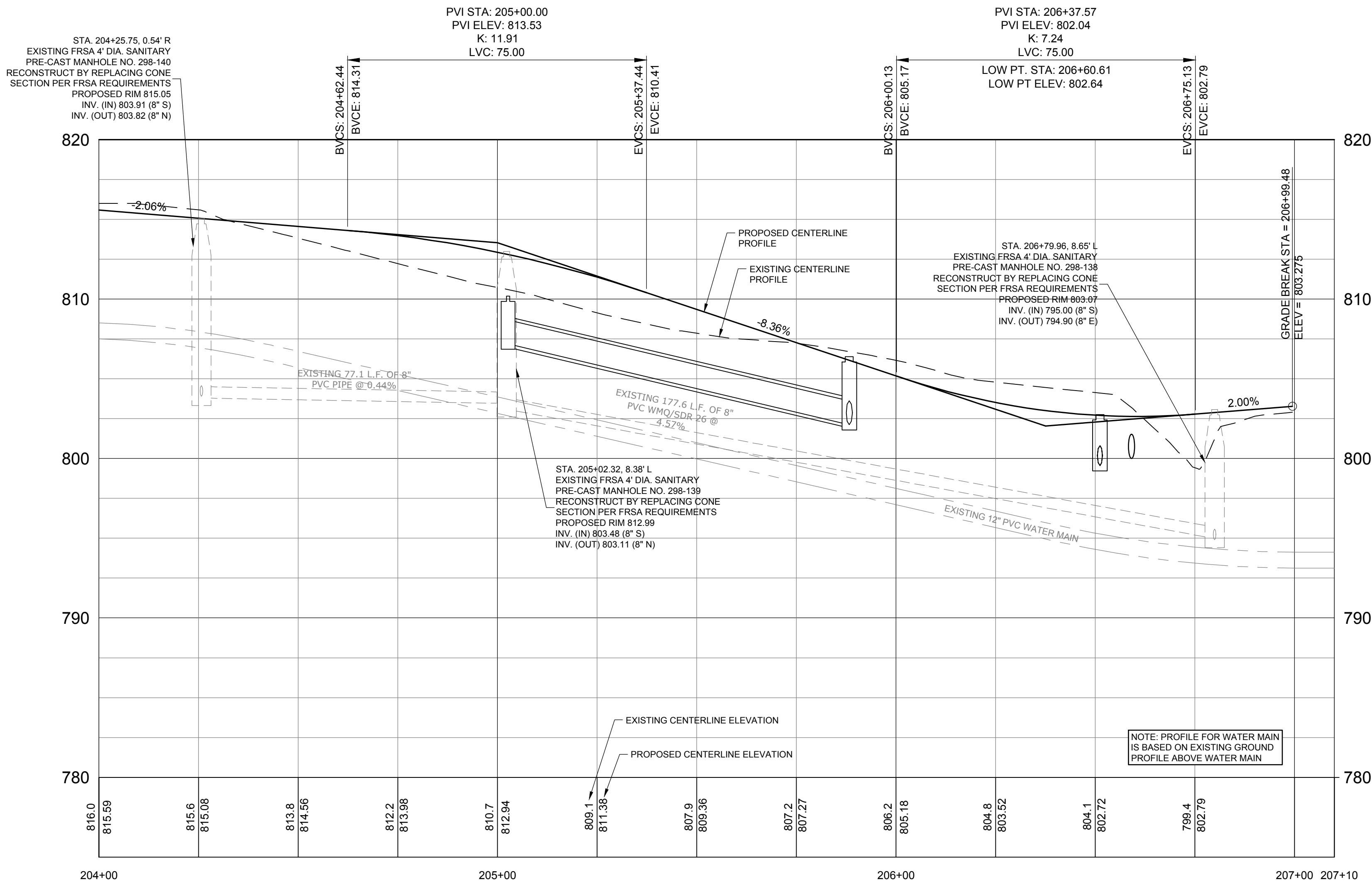
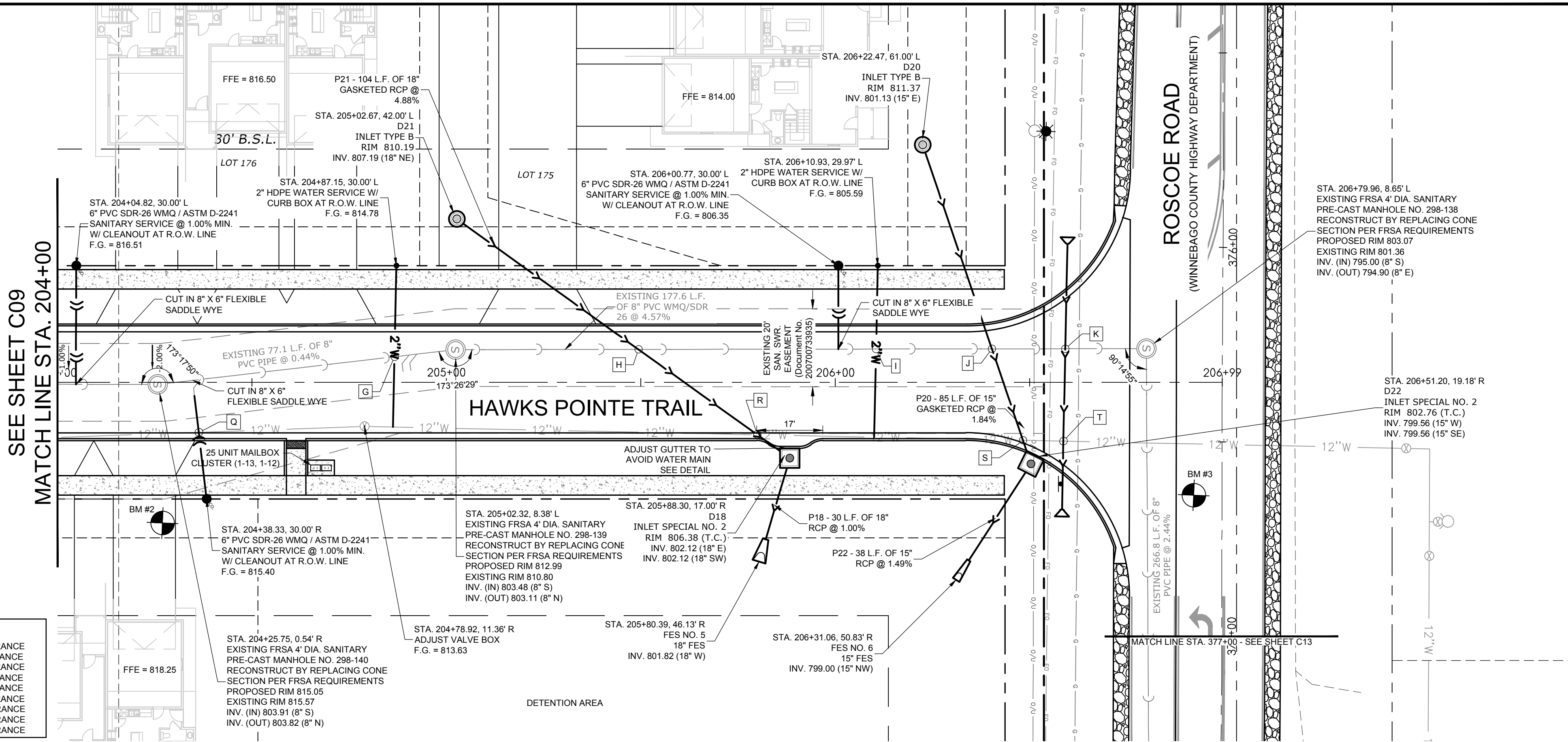
PROJECT NUMBER
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22012

C09

SITE BENCHMARKS	
DESCRIPTION	ELEVATION (WinGIS)
BENCHMARK 1 MAG NAIL SET IN PAVEMENT AT END OF HAWKS POINTE TRAIL STA. 200+50.78, 6.89' L	812.62
BENCHMARK 2 SET 5/8" ROD IN GROUND NEAR SAN MH 298-140 STA. 204+27.01, 36.20' R	815.72
BENCHMARK 3 MAG NAIL SET IN ROSCOE ROAD PAVEMENT NEAR TEMPORARY FIELD ENTRANCE STA. 206+92.15, 29.05' R	801.84

UTILITY CROSSINGS	
G	BTM WTR = 807.25, TOP SAN = 804.24, 3.01' CLEARANCE
H	BTM STM = 804.69, TOP SAN = 801.65, 3.04' CLEARANCE
I	BTM WTR = 801.24, TOP SAN = 800.46, 0.78' CLEARANCE
J	BTM STM = 799.92, TOP SAN = 796.06, 1.86' CLEARANCE
K	BTM STM = 800.00, TOP SAN = 796.64, 3.36' CLEARANCE
Q	BTM WTR = 806.54, TOP SAN = 804.60, 1.94' CLEARANCE
R	BTM STM = 802.40, TOP WTR = 799.27, 3.13' CLEARANCE
S	BTM STM = 799.48, TOP WTR = 795.40, 4.08' CLEARANCE
T	BTM STM = 799.77, TOP WTR = 794.93, 4.84' CLEARANCE



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OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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HAWKS POINTE
TRAIL PLAN &
PROFILE STA.
204+00 TO 206+99

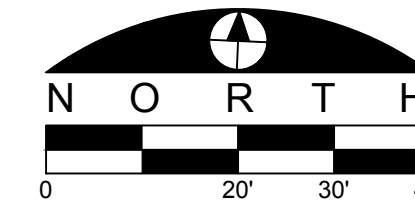
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PROJECT NUMBER
SHEET NUMBER

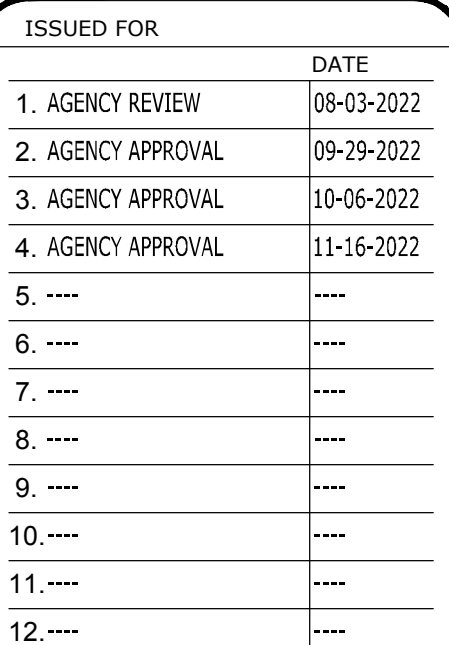
22012

C10

NOTE:
PRESSURE TESTING AND CHLORINATION
TESTING IS STILL REQUIRED FOR 8" PROPOSED
MAIN THAT WILL ULTIMATELY REMAIN WITH
THE VALVE CLOSED TO THE 12" EXISTING MAIN



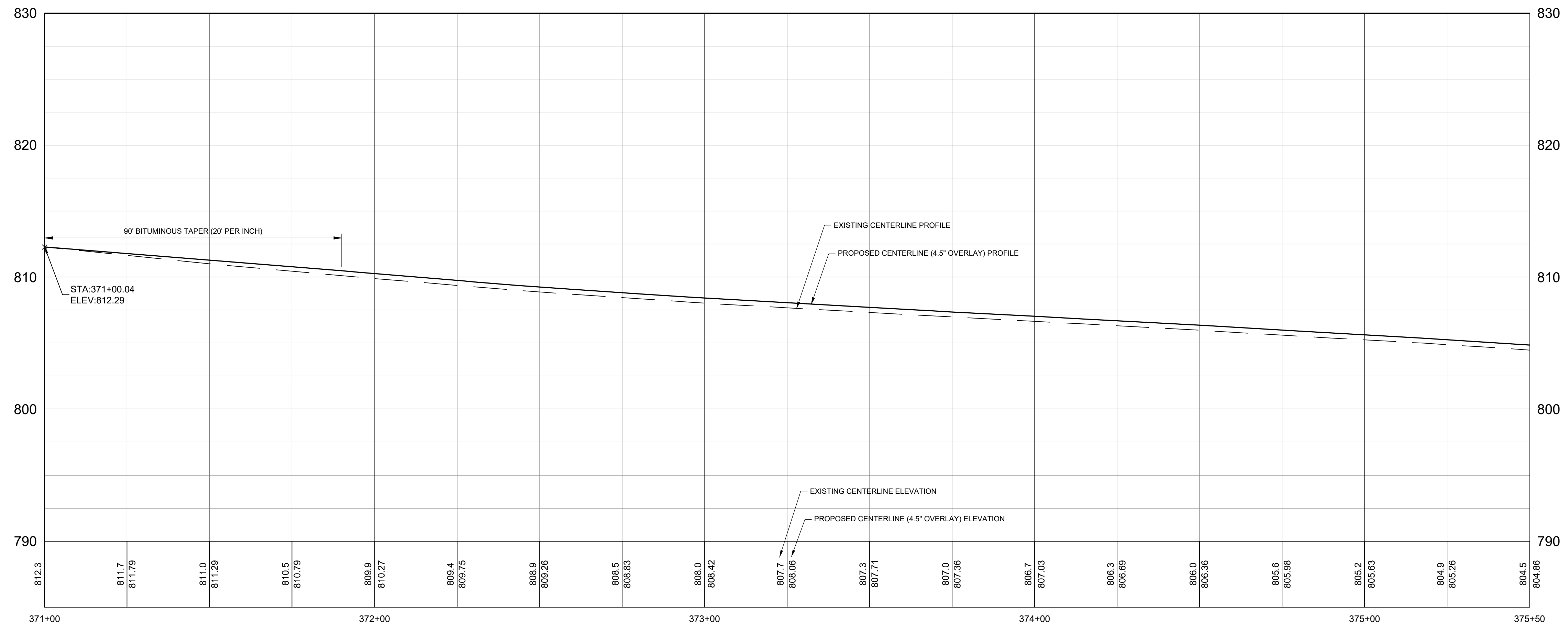
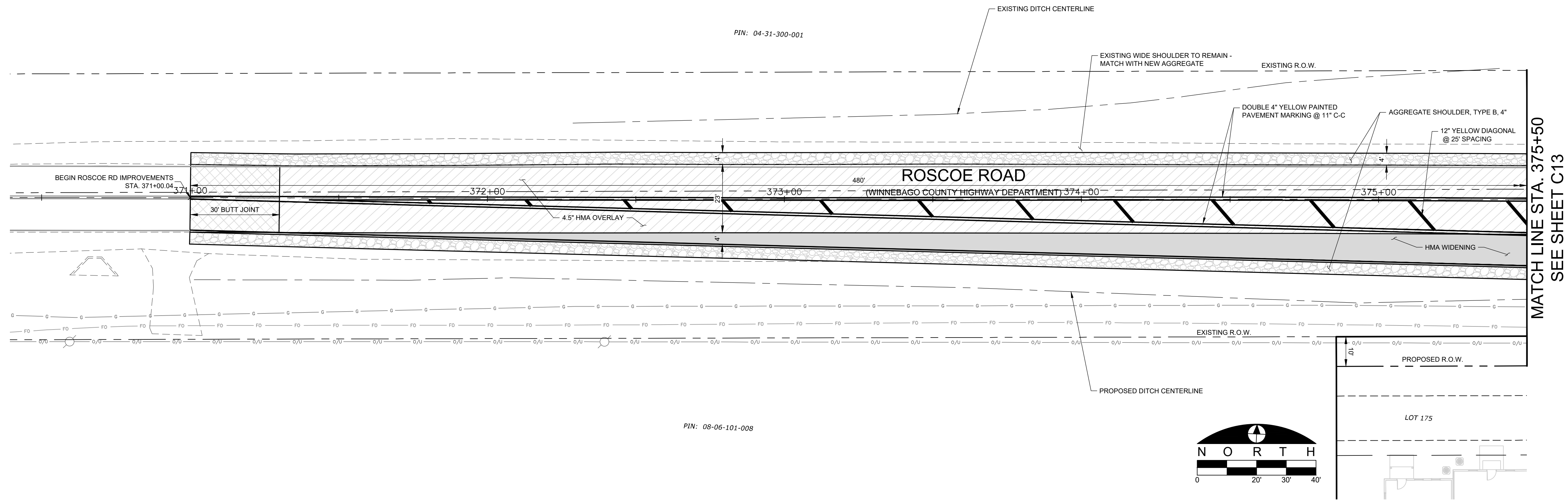
UTILITY CROSSINGS	
F	BTM STM = 810.98, TOP SAN = 805.58, 5.40' CLEARANCE
L*	BTM STM = 807.46, TOP SAN = 805.96, 1.50' CLEARANCE
U	BTM SAN = 804.57, TOP WTR = 803.07, 1.50' CLEARANCE
V	BTM WTR = 807.31, TOP SAN = 805.66, 1.65' CLEARANCE
W	BTM WTR = 812.41, TOP STM = 810.03, 2.38' CLEARANCE



REVISIONS	
ITEM	DATE
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DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER



ARC DESIGN
RESOURCES INC.

5291 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

**HAWKS POINTE
PLAT 5**

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR		DATE
1. AGENCY REVIEW		08-03-2022
2. AGENCY APPROVAL		08-29-2022
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SHEET TITLE

**ROSCOE ROAD
PLAN & PROFILE
STA. 371+00 TO
375+50**

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C12



PROJECT NAME
OWNER'S NAME

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

REVISIONS	
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SHEET TITLE

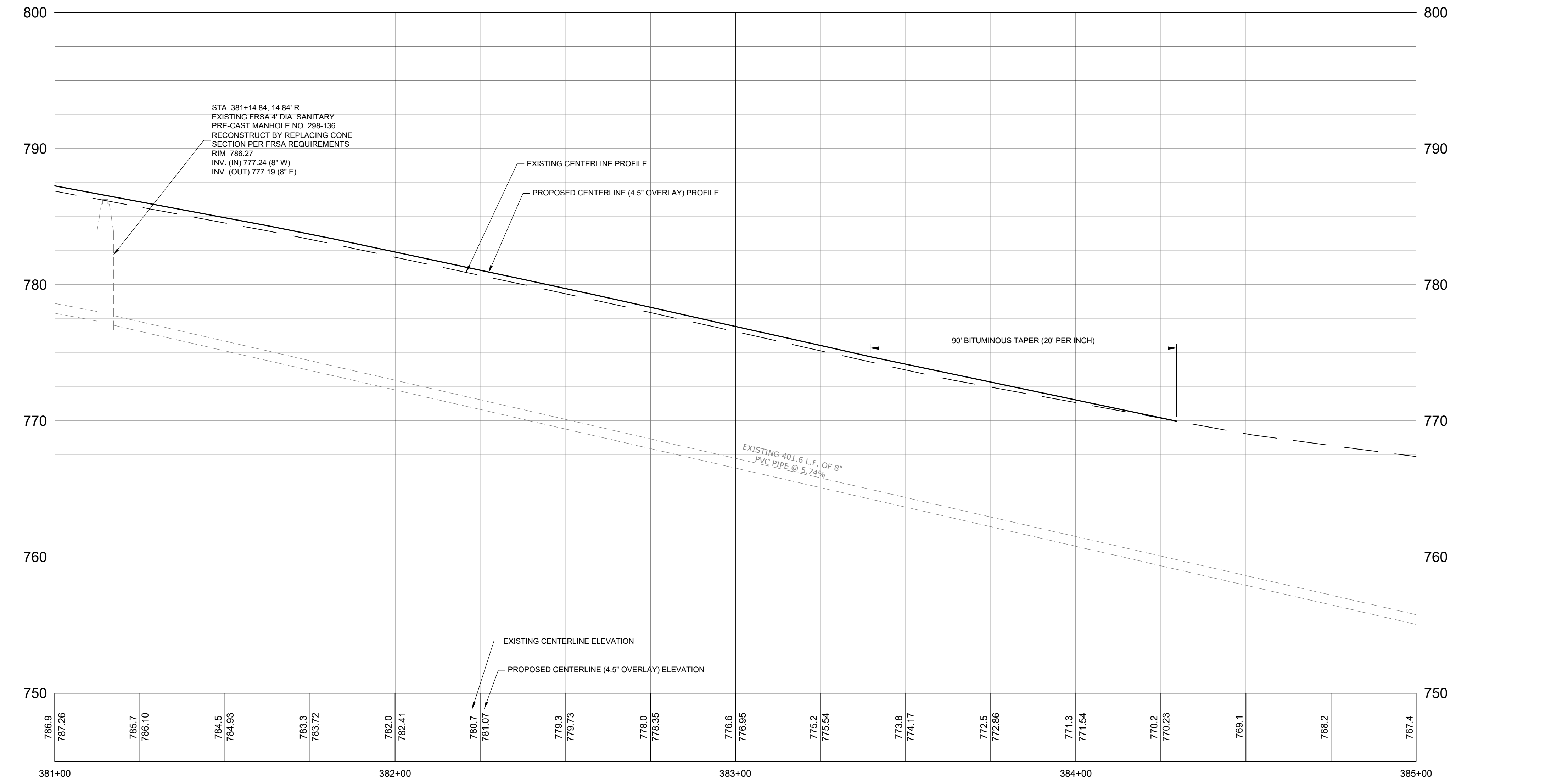
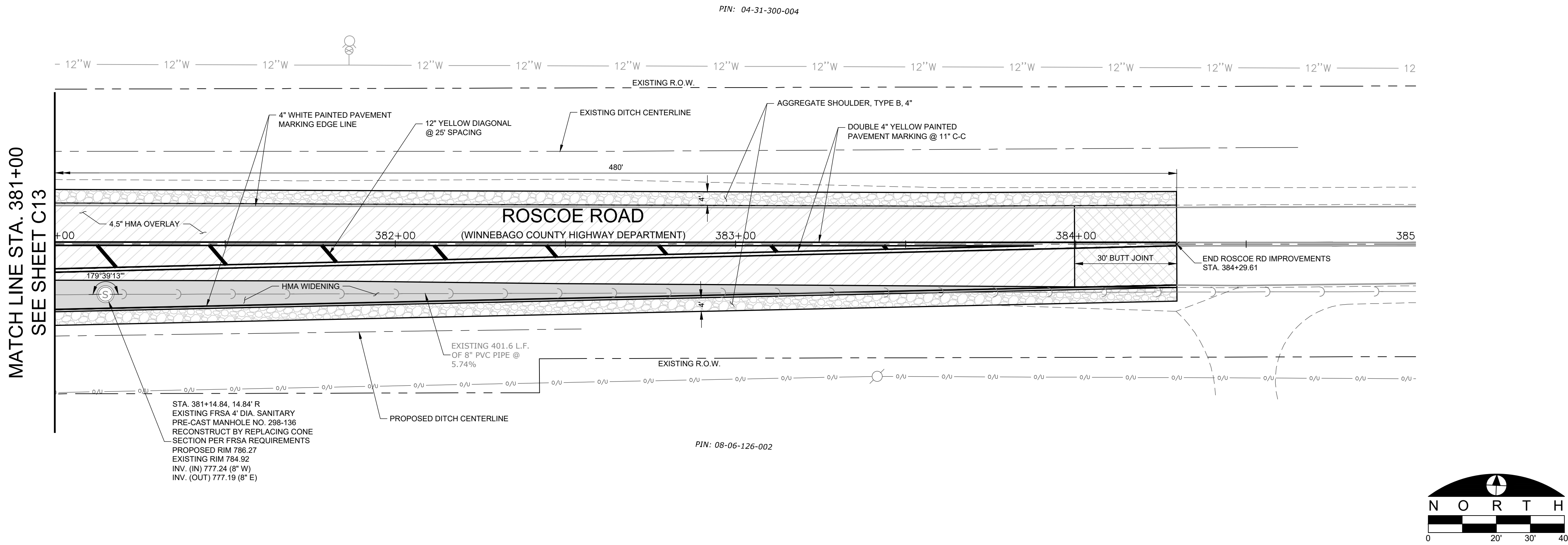
ROSCOE ROAD
PLAN & PROFILE
STA. 375+50 TO
381+00

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22012

C13



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**HAWKS POINTE
PLAT 5**

HAWKS POINTE TRAIL
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WINNEBAGO COUNTY

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1020 BENBROOK DRIVE
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SHEET TITLE

**ROSCOE ROAD
PLAN & PROFILE
STA. 381+00 TO
384+29.61**

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C14

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PROJECT NAME
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HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
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REVISIONS

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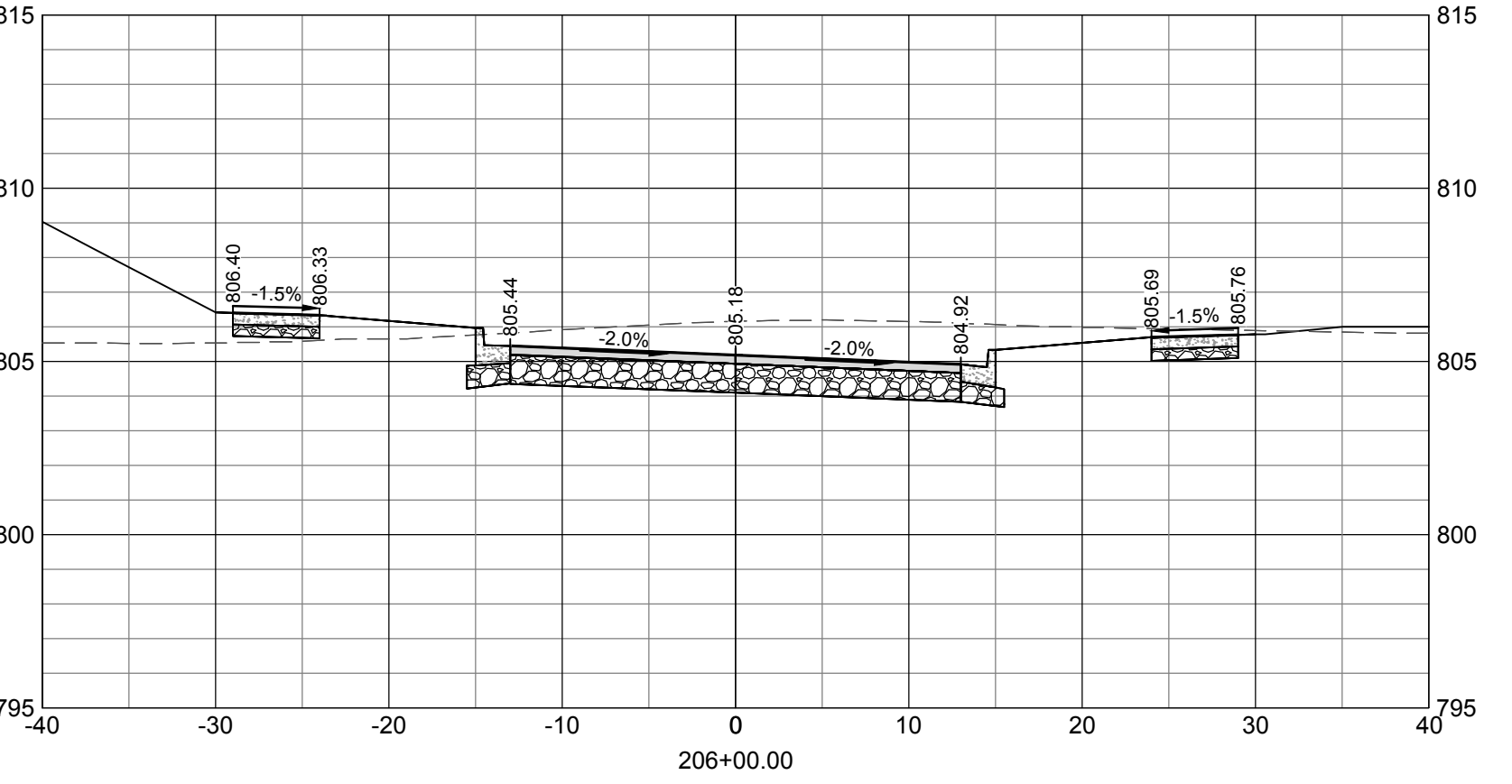
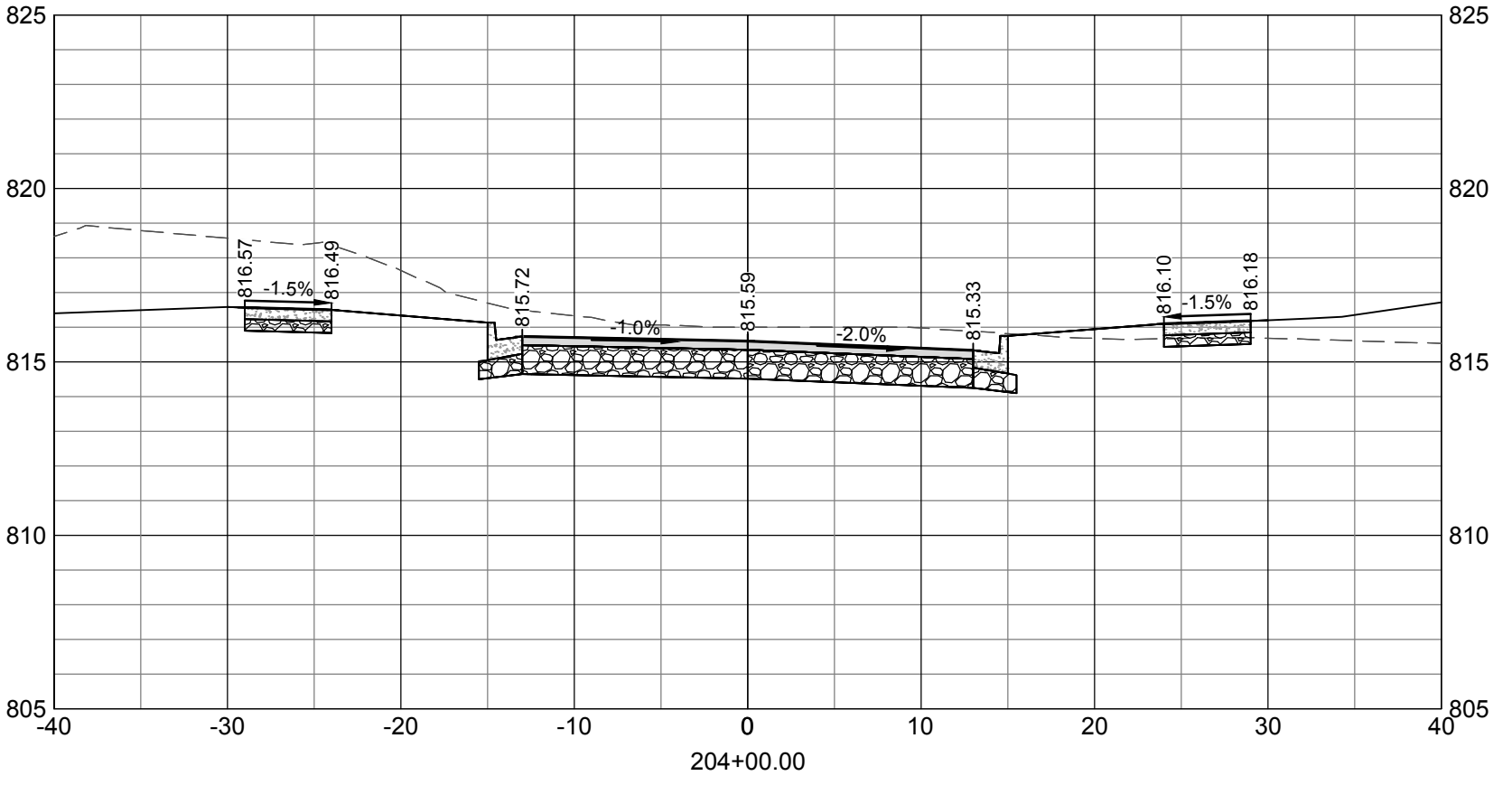
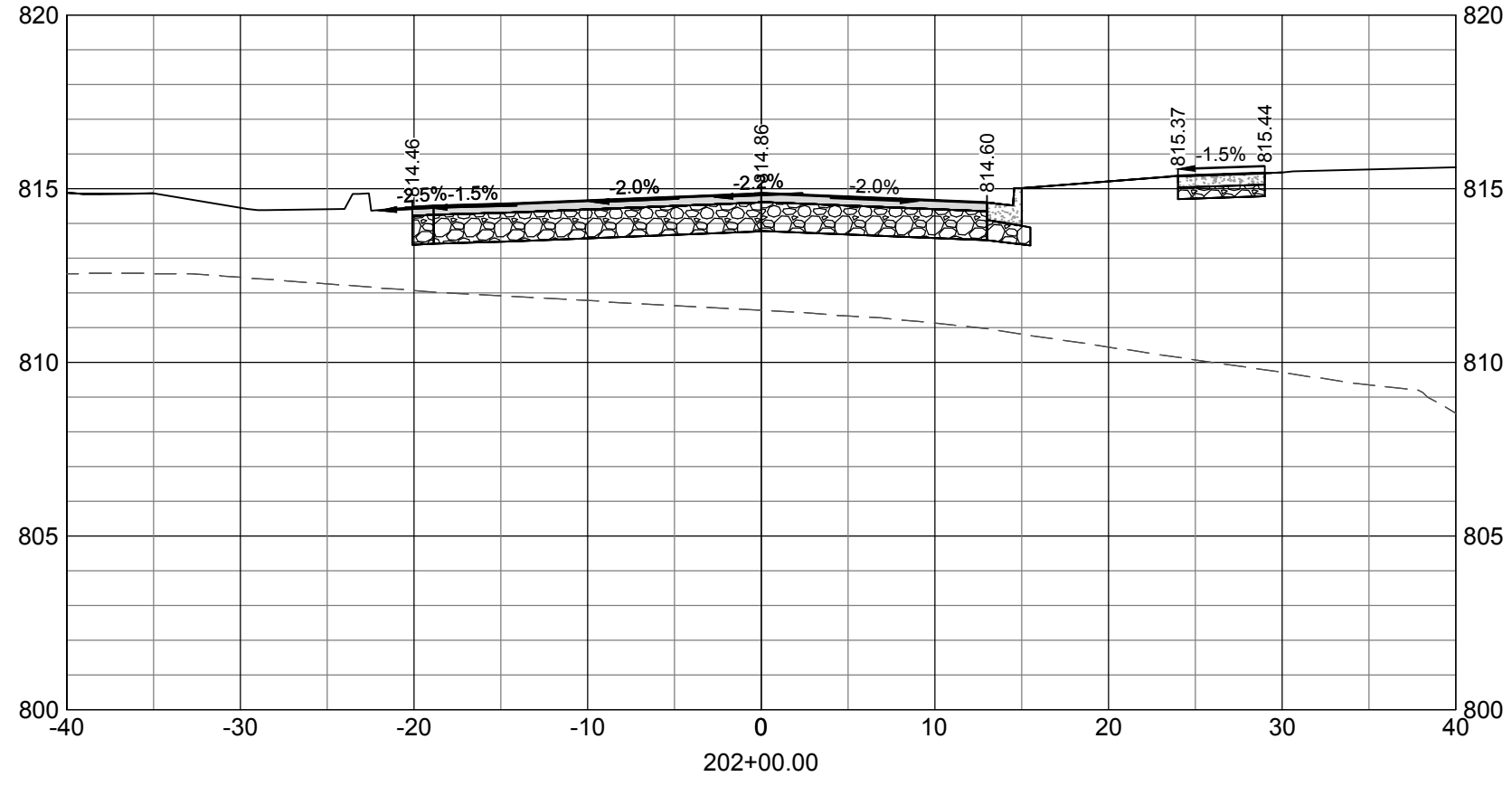
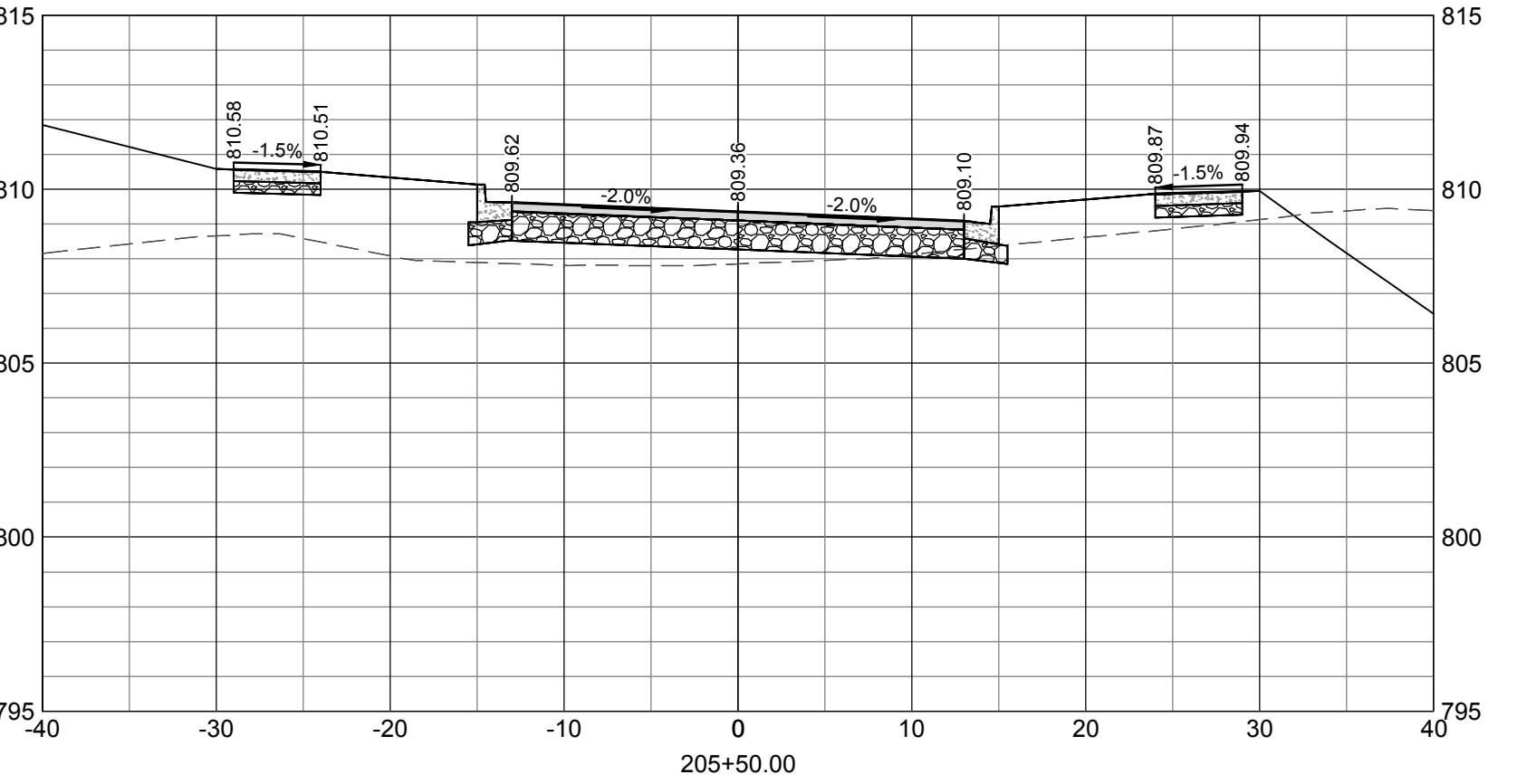
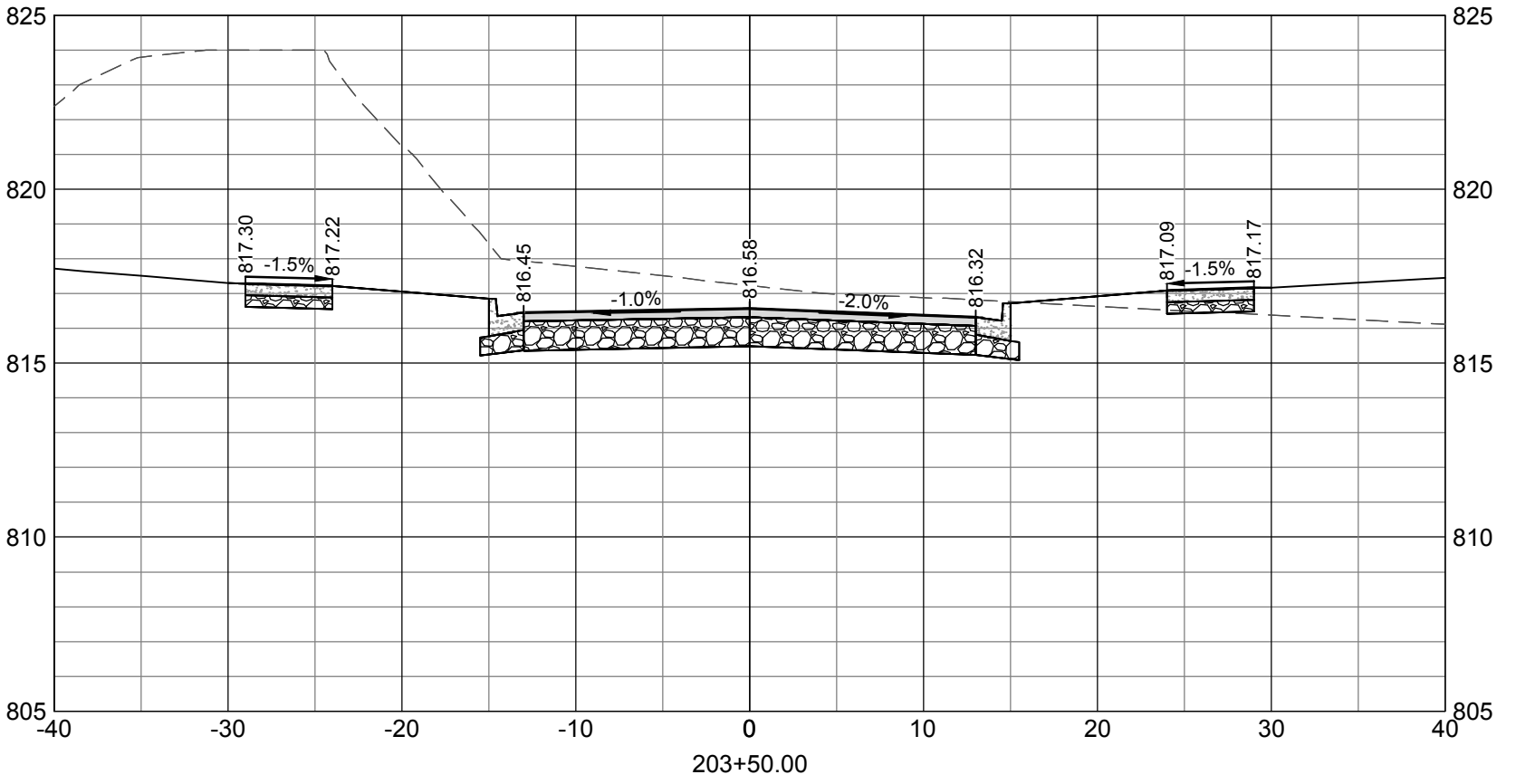
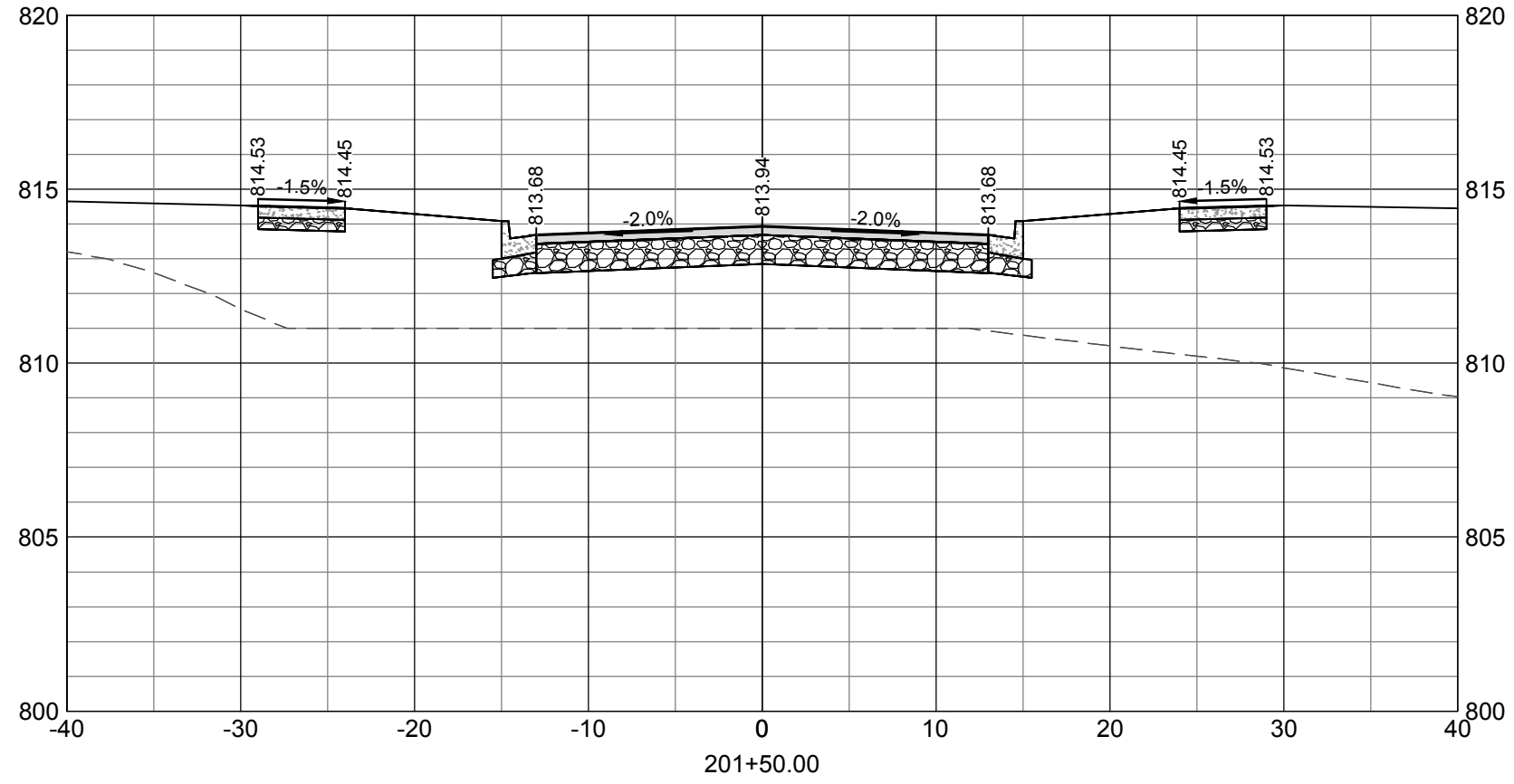
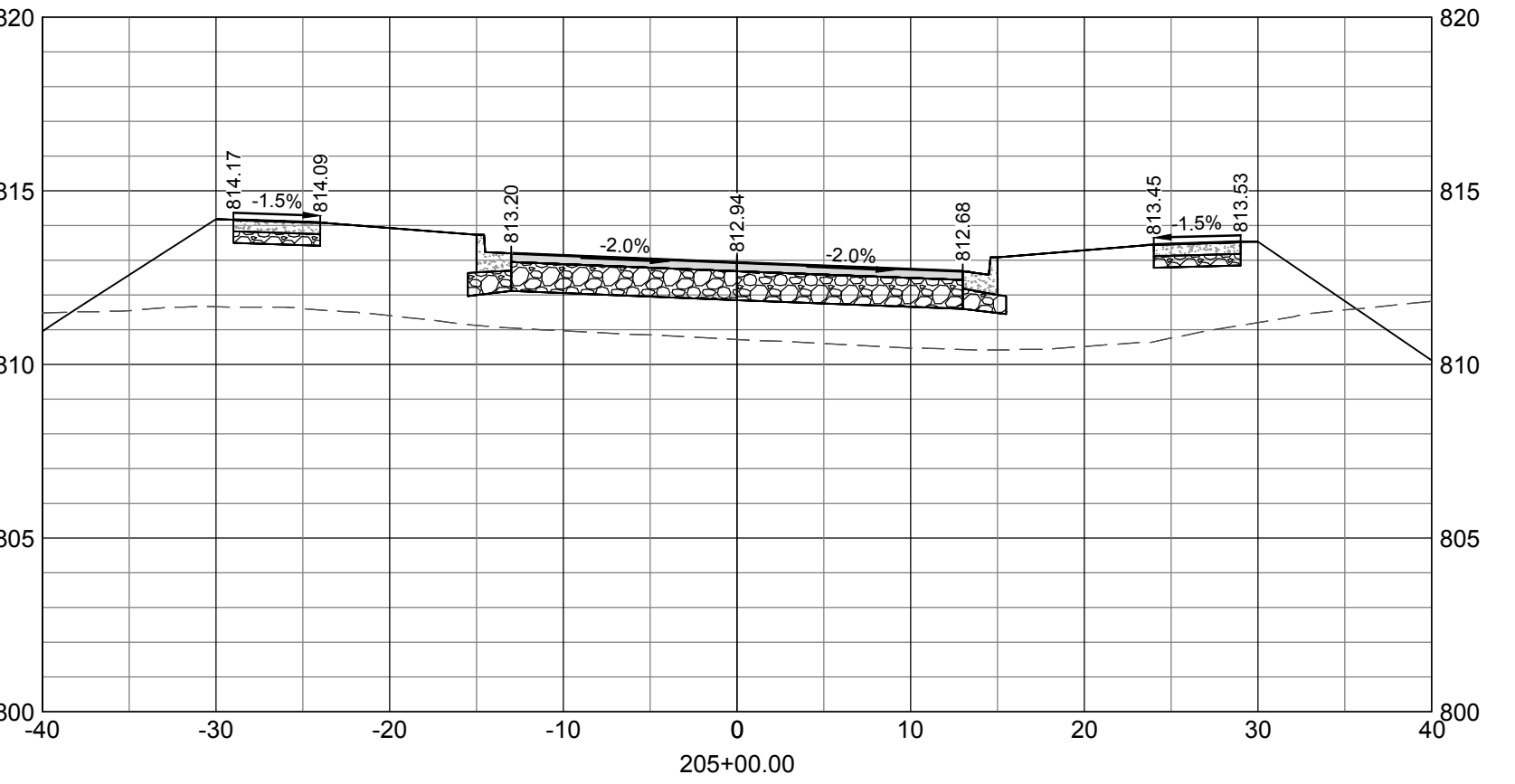
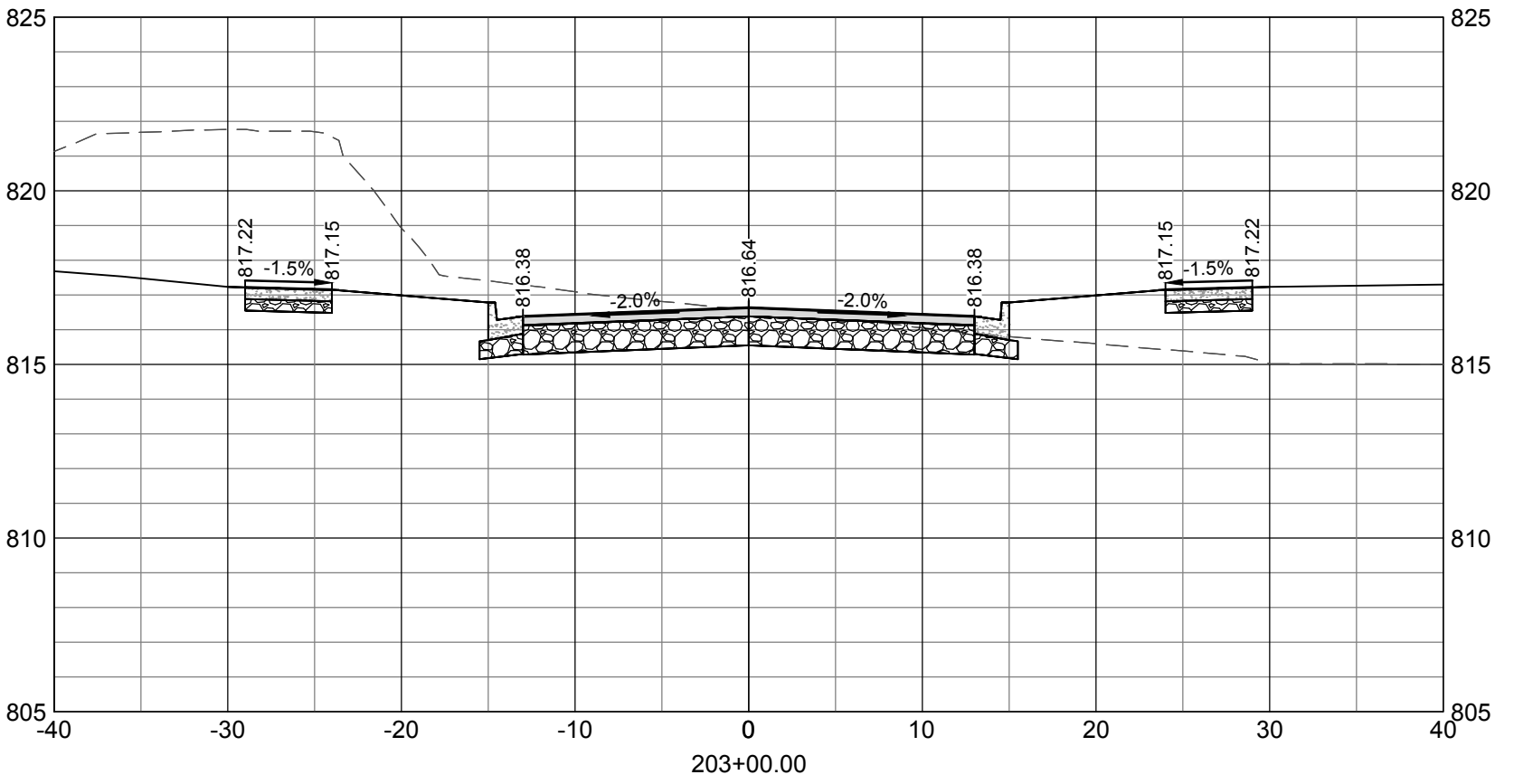
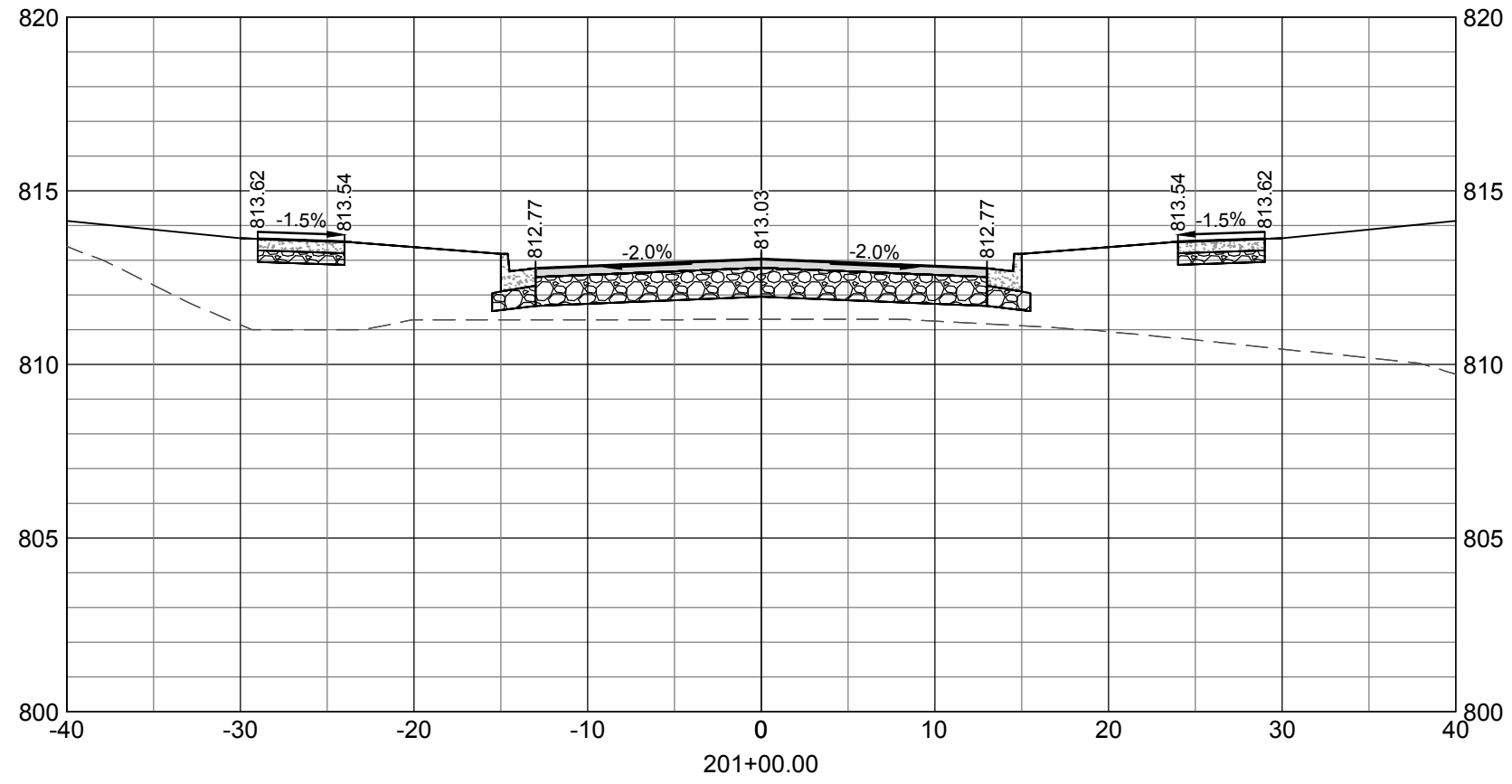
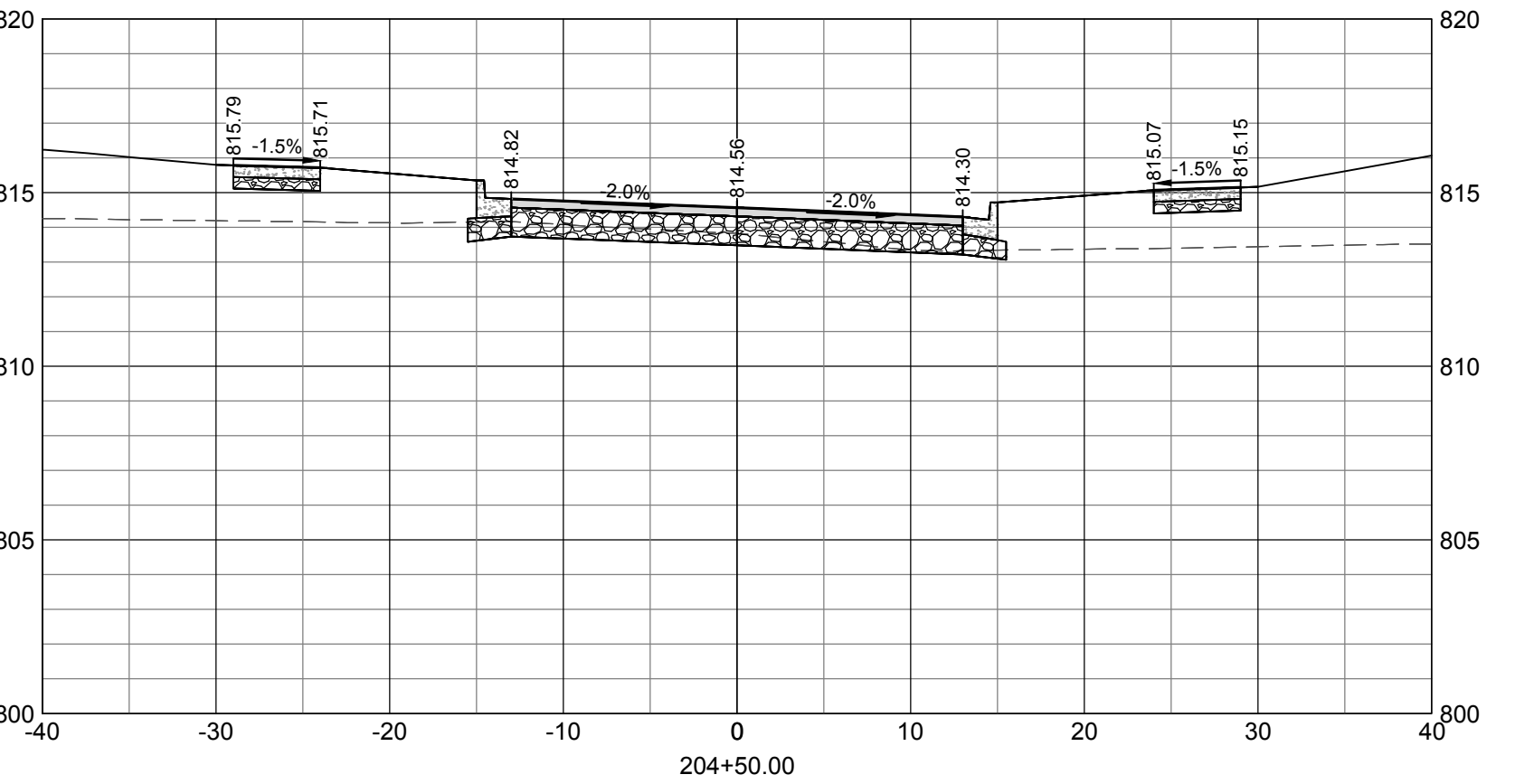
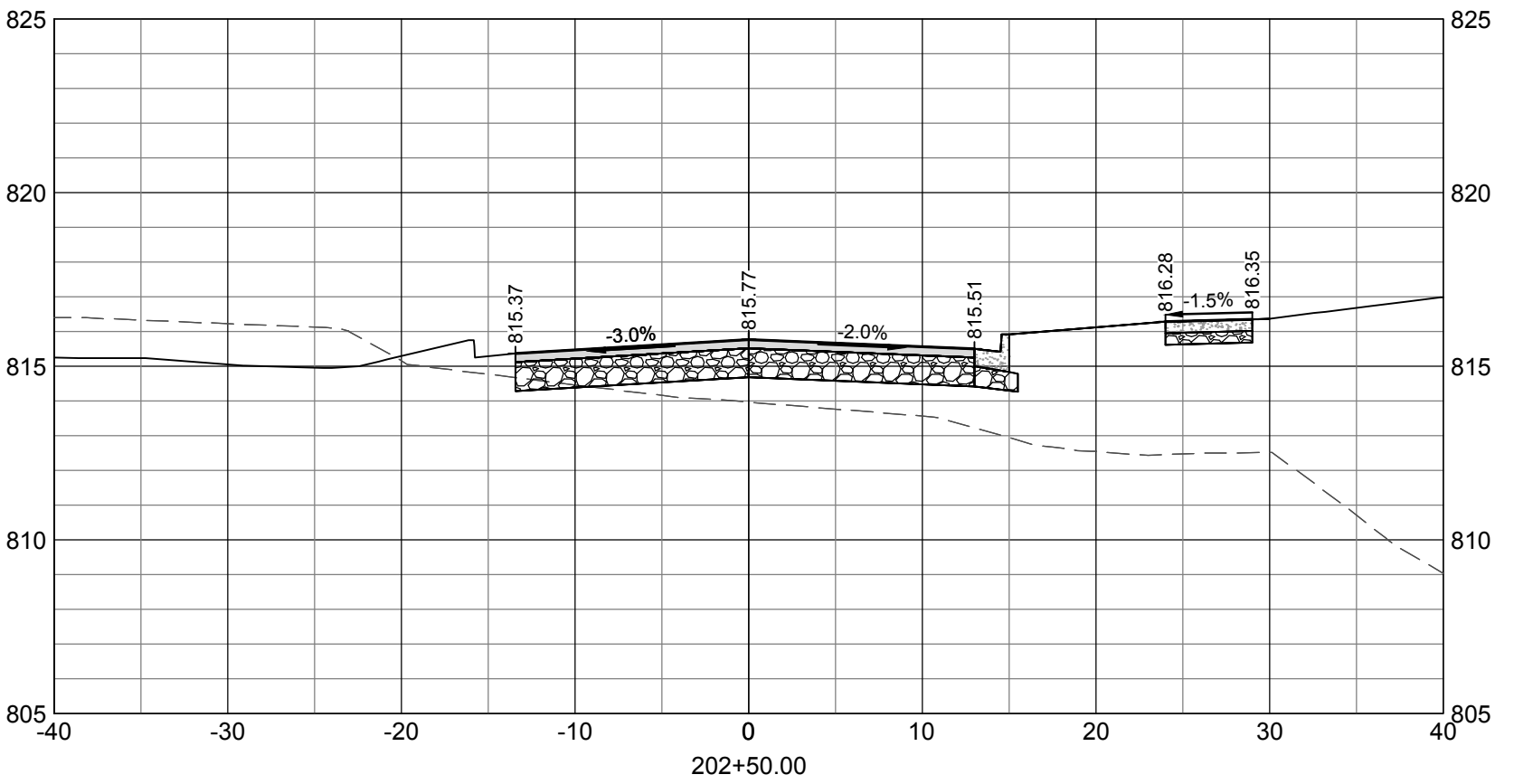
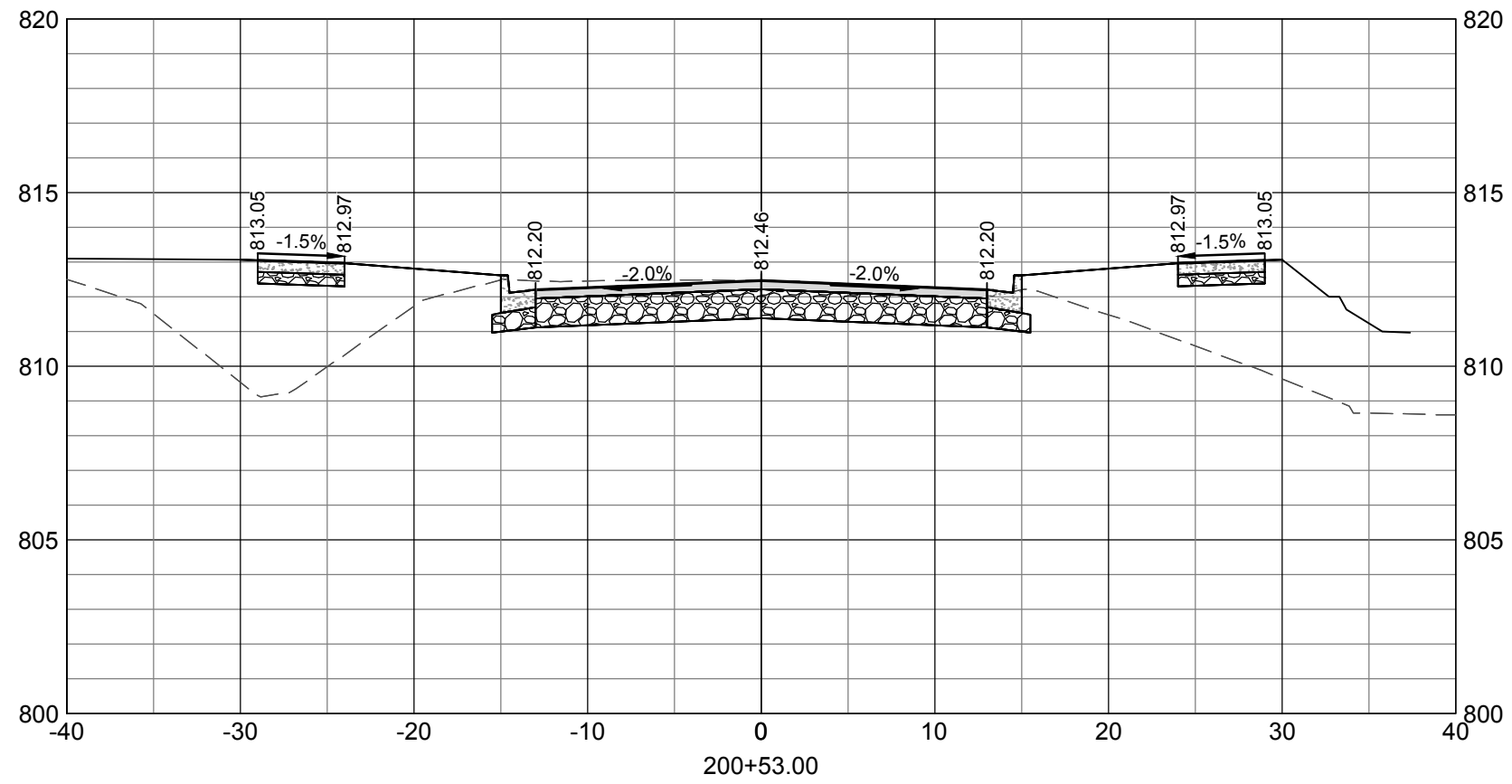
HAWKS POINTE
TRAIL CROSS
SECTIONS STA.
200+53 TO 206+00

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C15



ARC DESIGN
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PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

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REVISIONS

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SHEET TITLE

SPARROW LANE
CROSS SECTIONS
STA. 112+89 TO
114+00

DRAWN

MJH

CHECKED

JSL

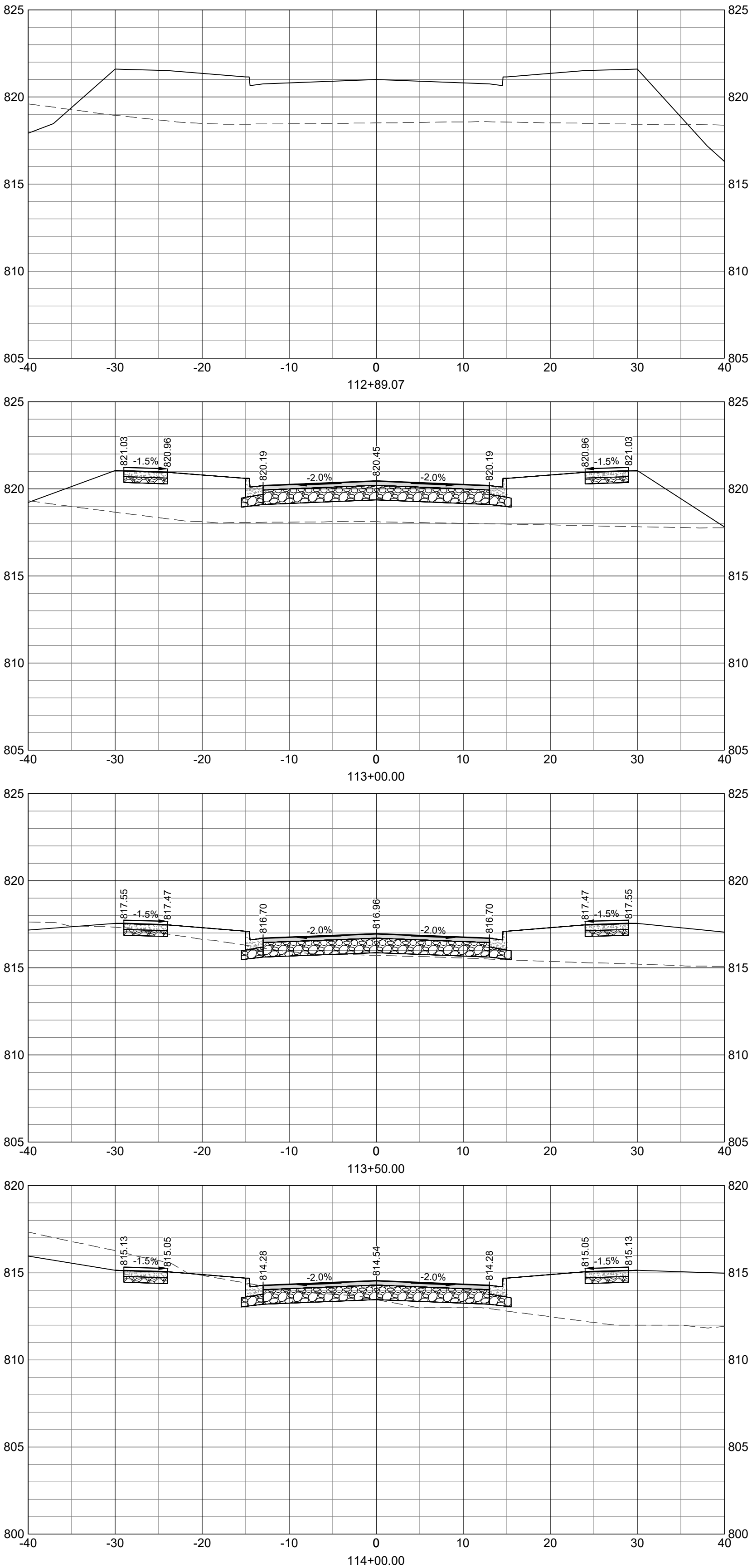
PM

JSL

PROJECT NUMBER
SHEET NUMBER

22012

C16



ARC DESIGN
RESOURCES INC.

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LOVES PARK, IL 61111
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PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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REVISIONS

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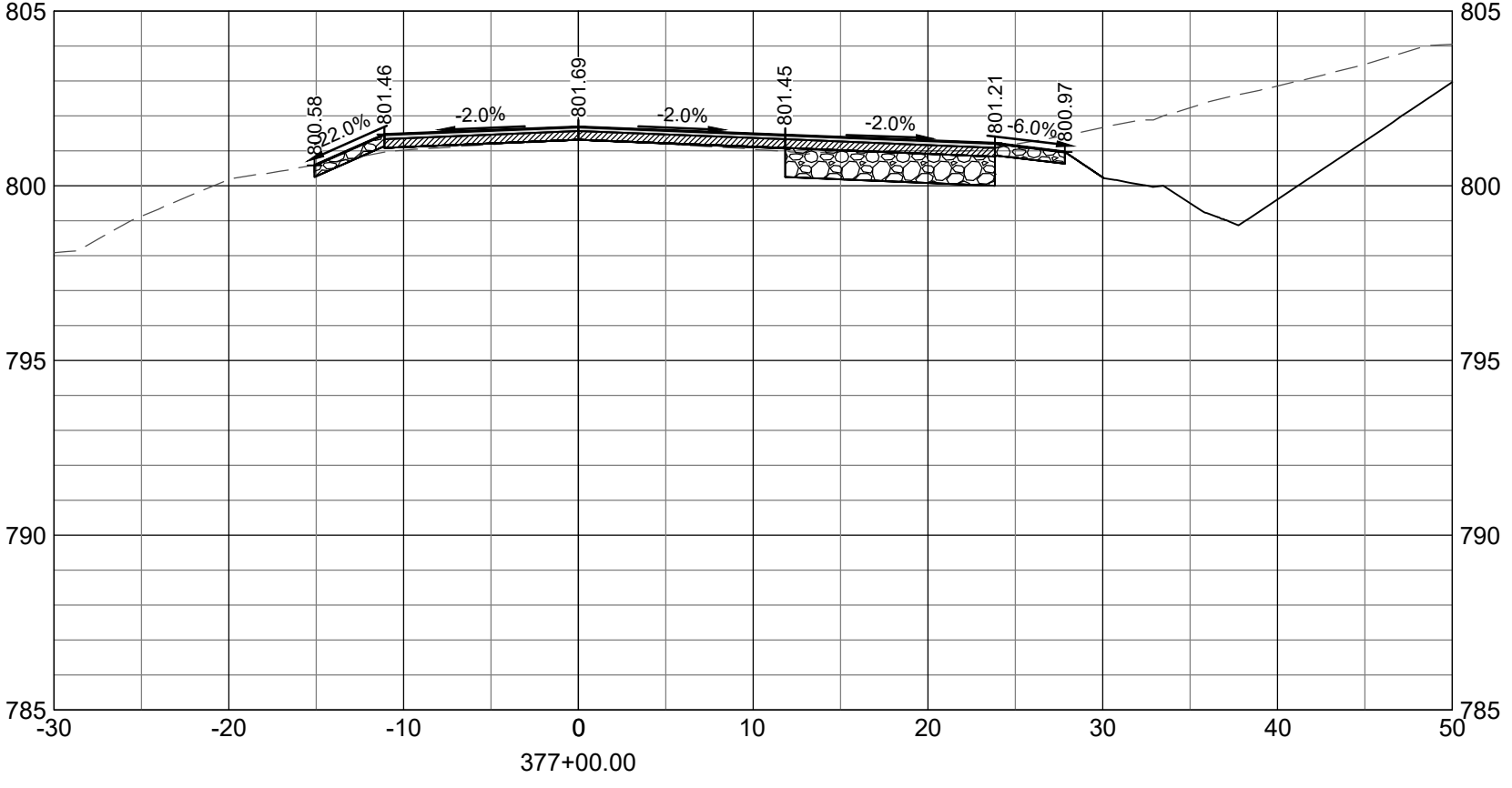
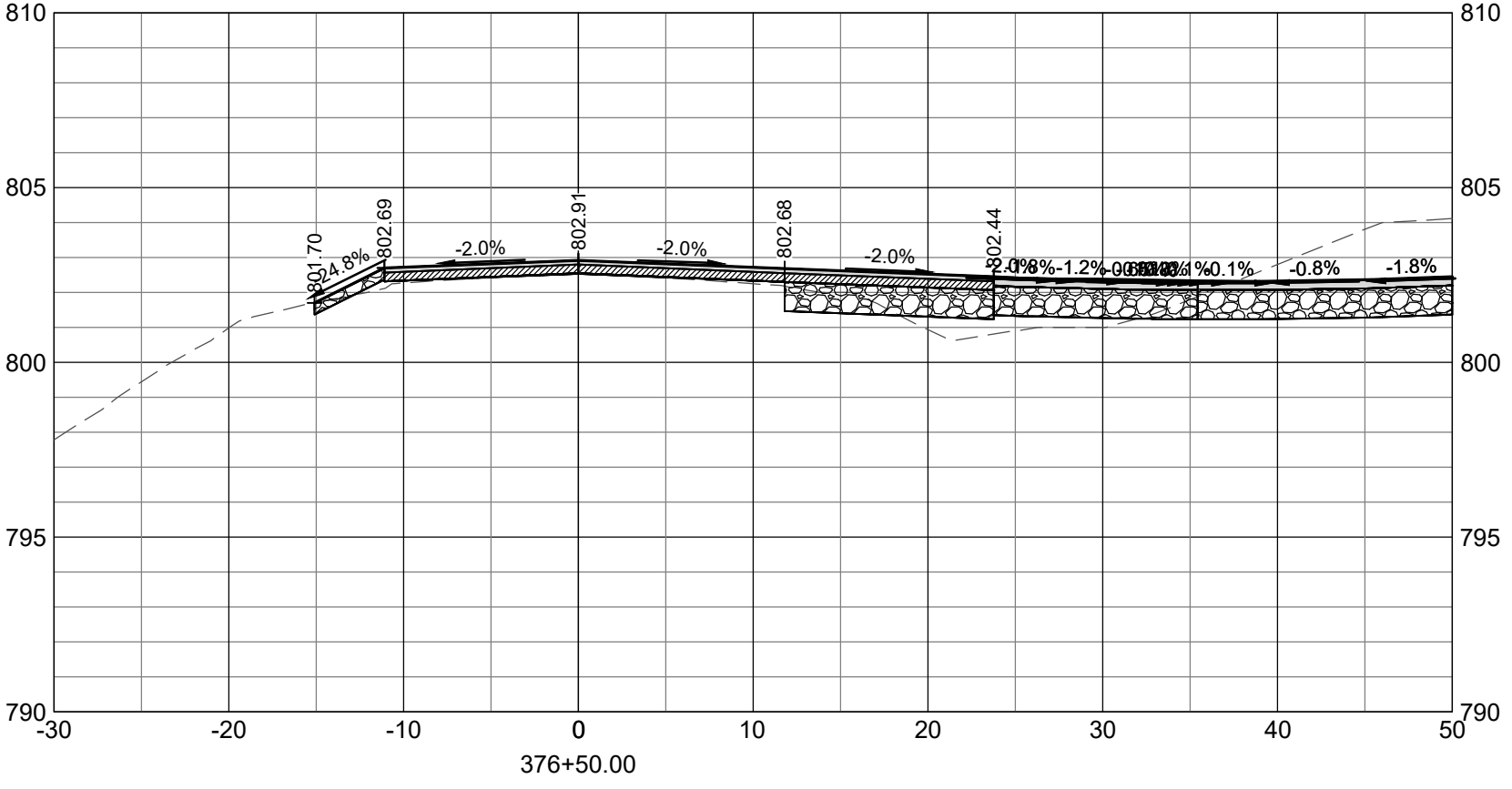
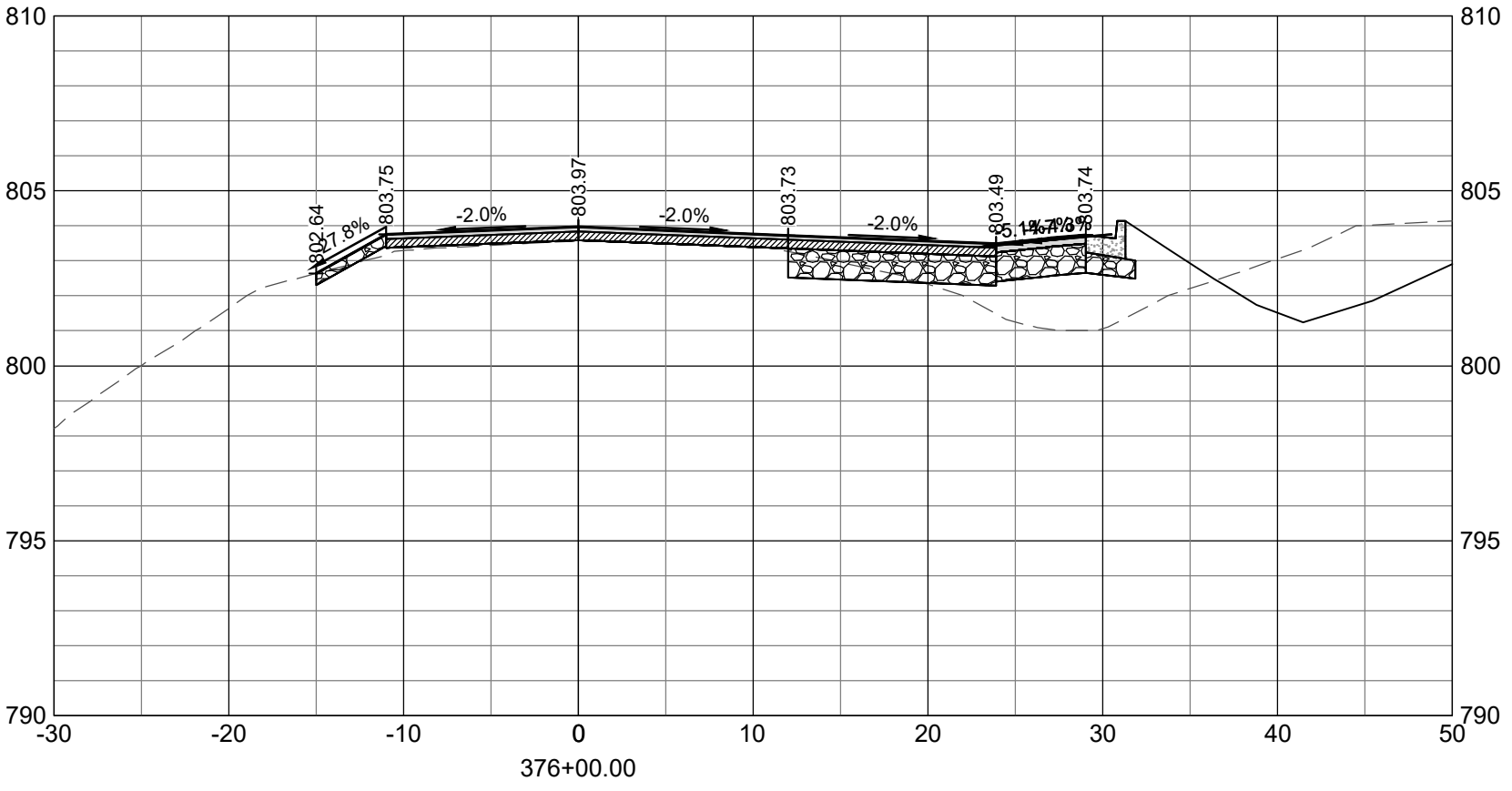
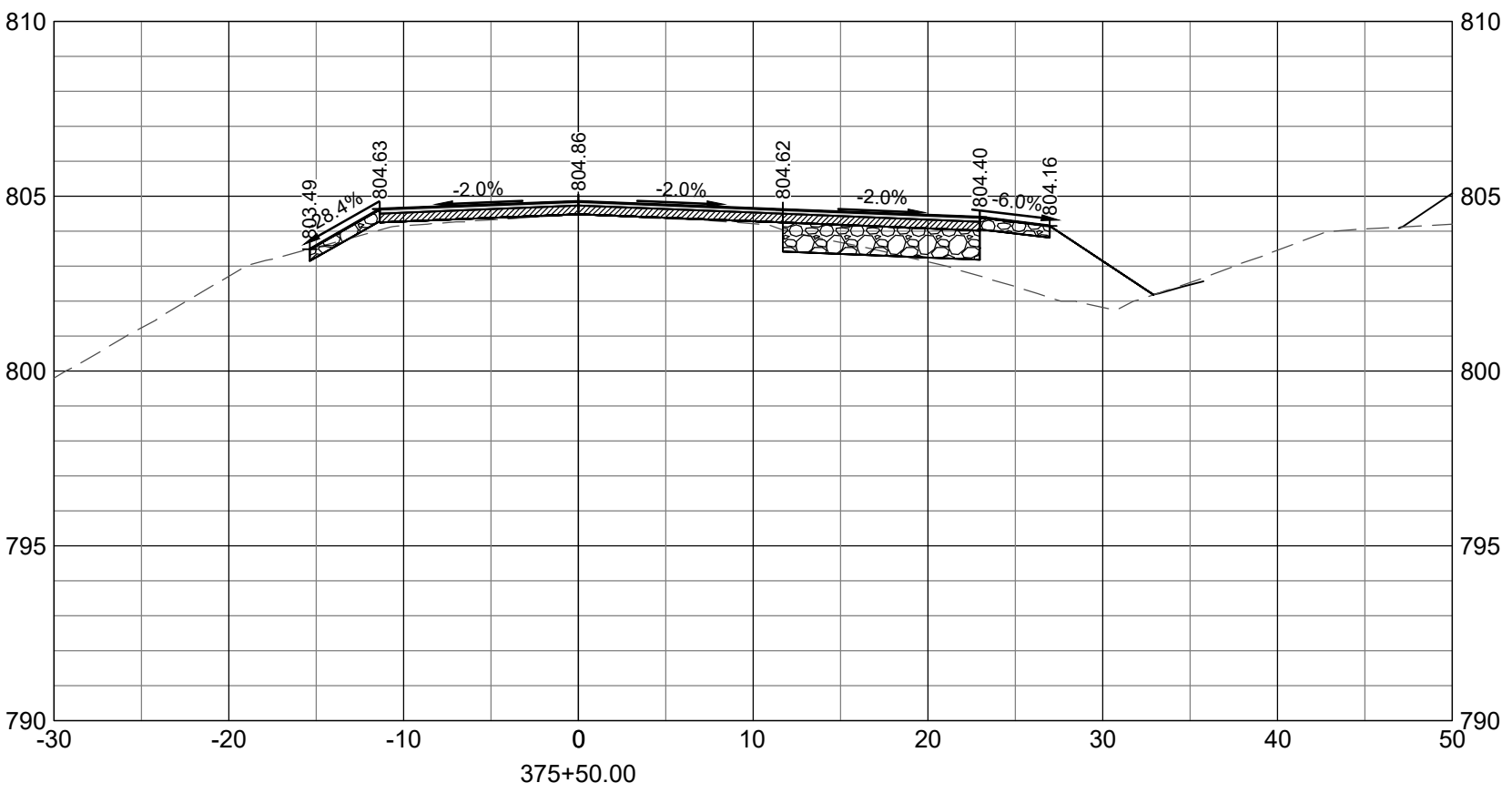
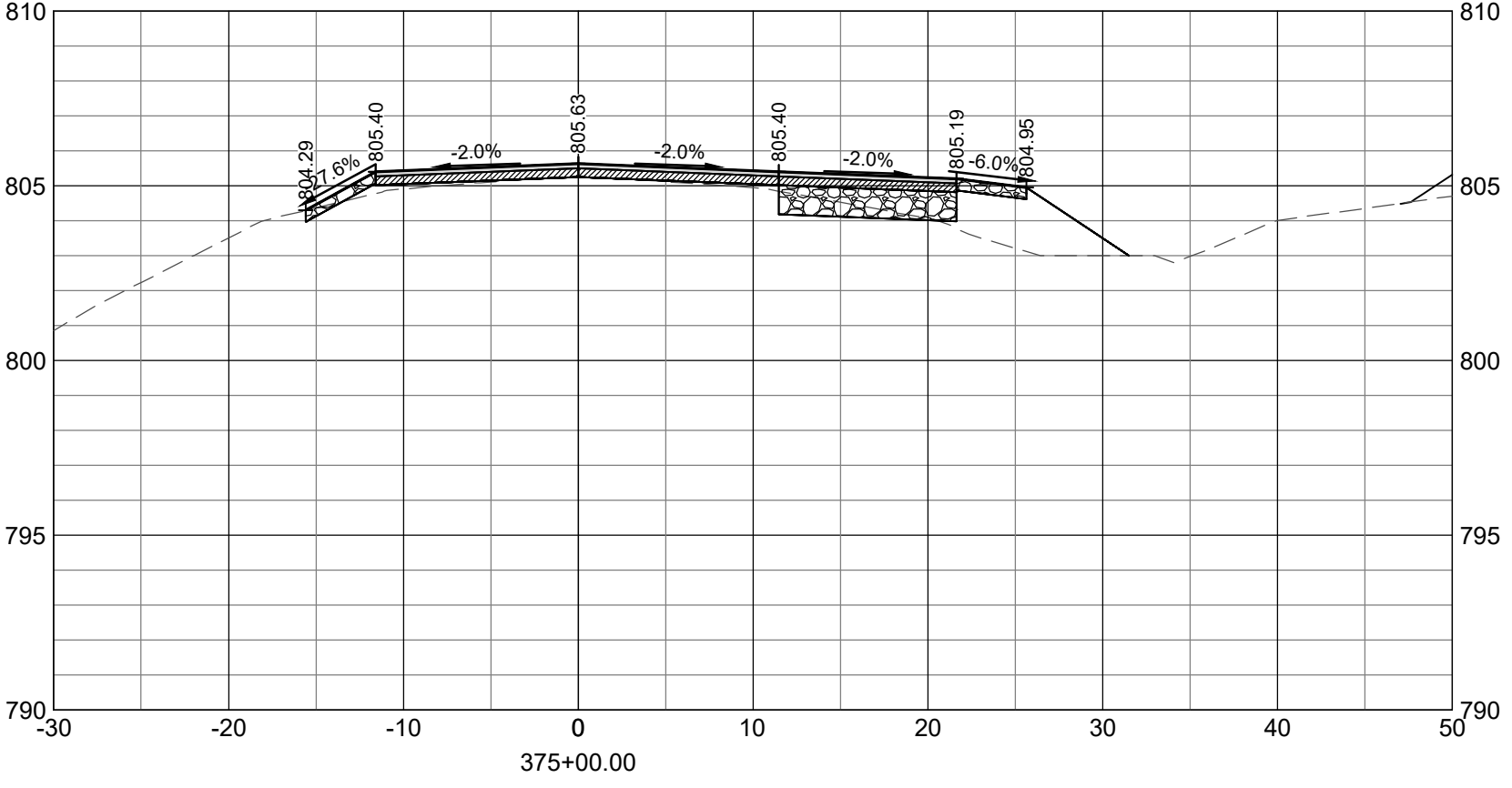
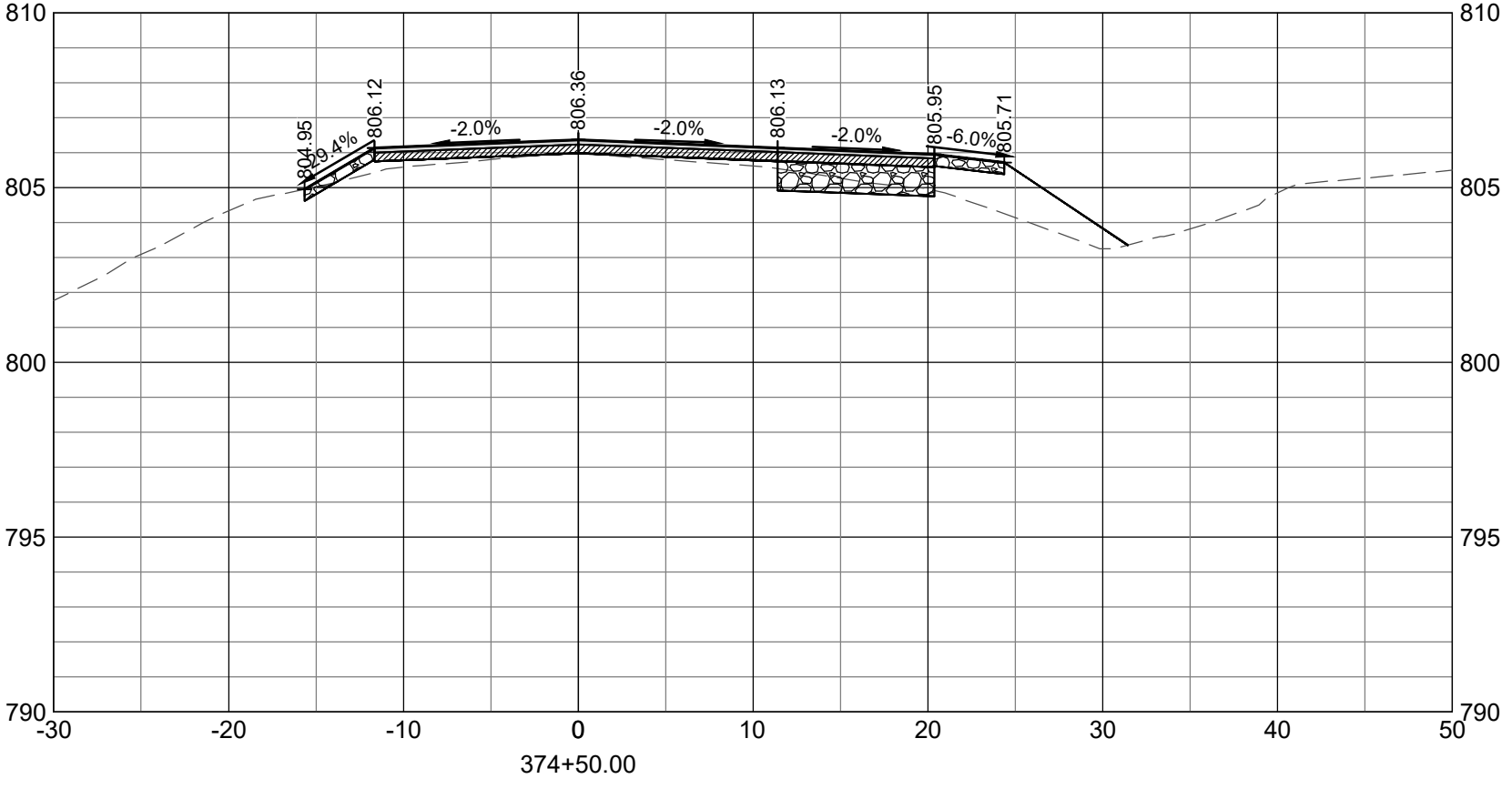
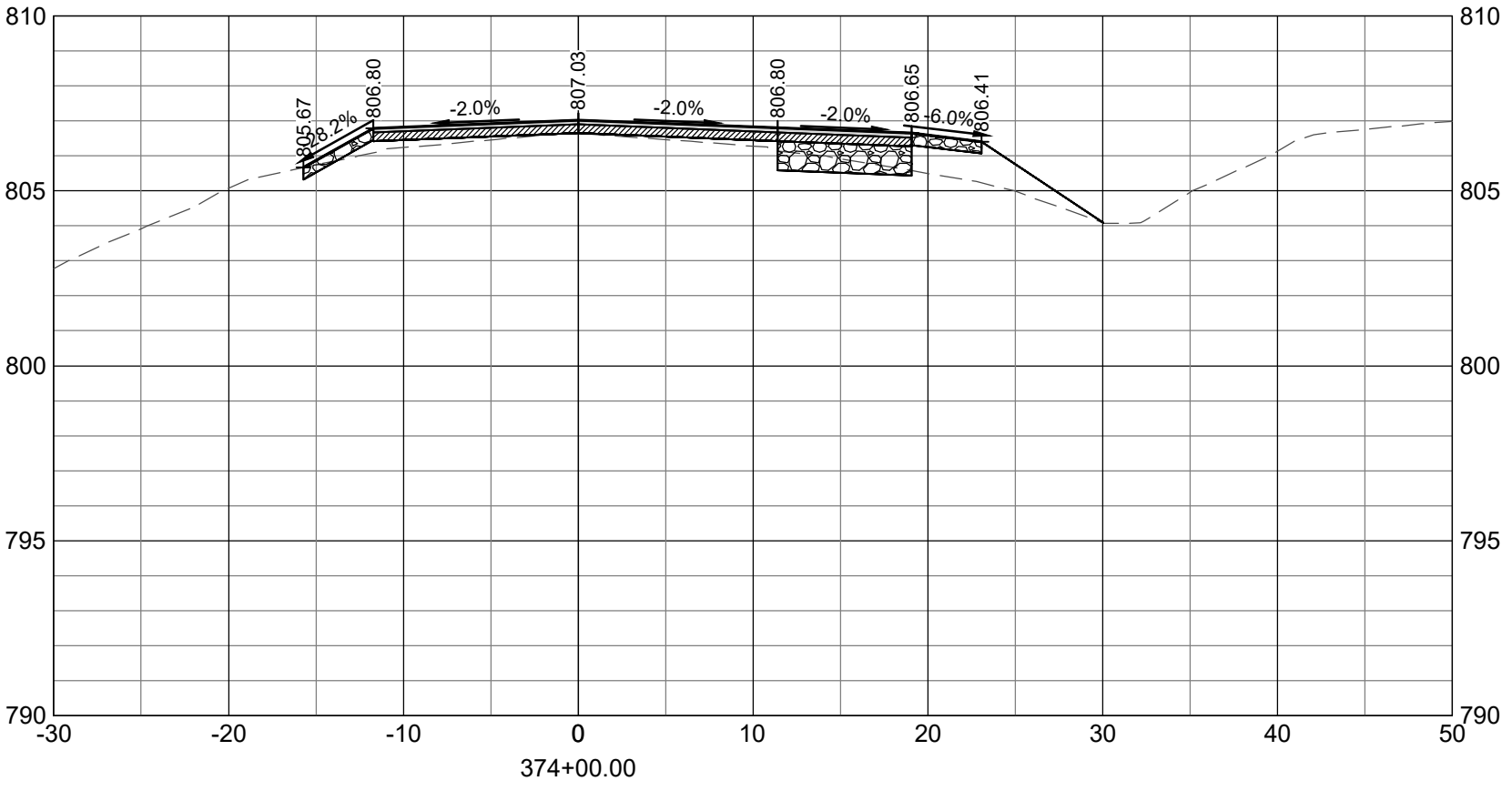
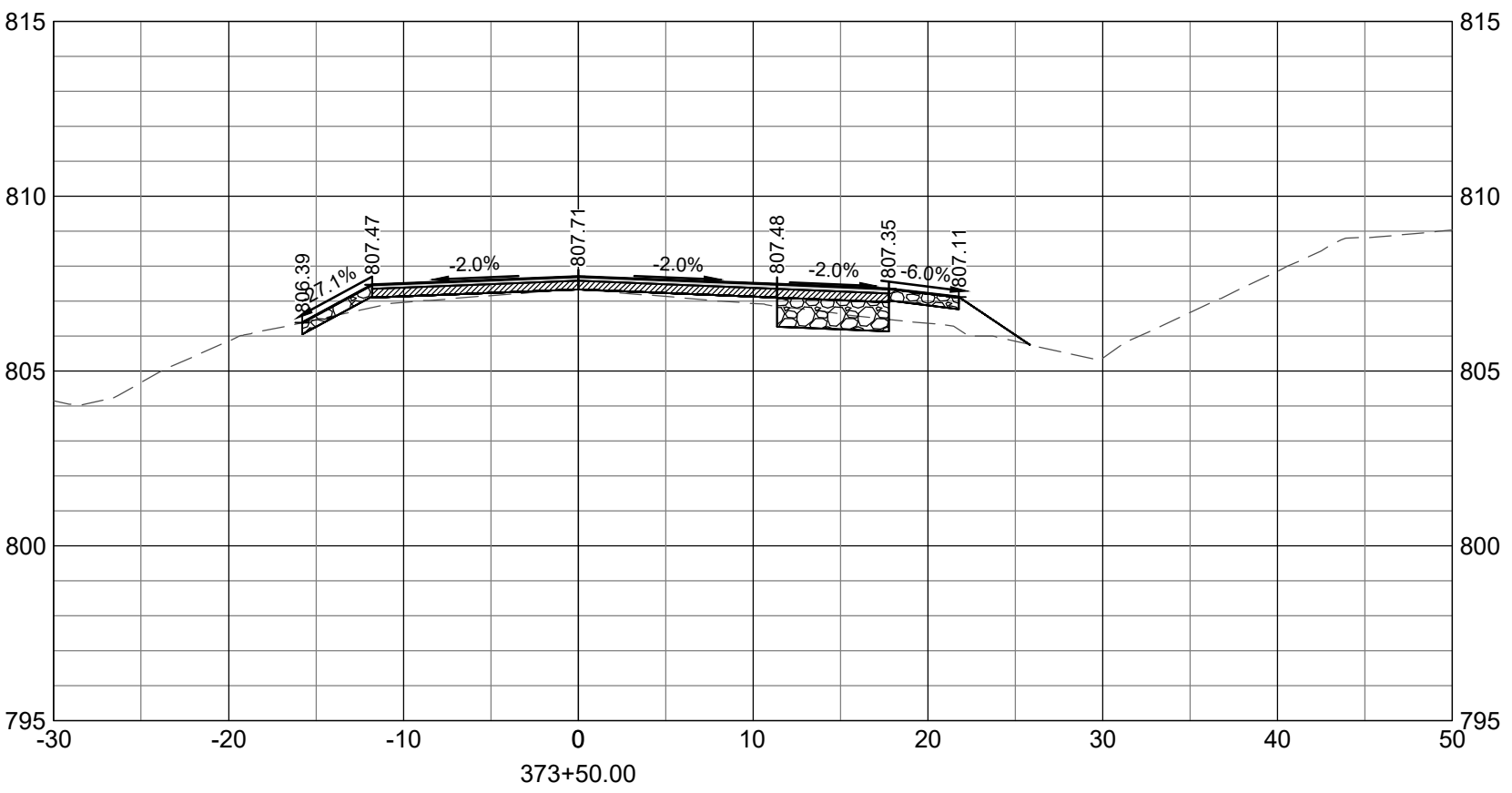
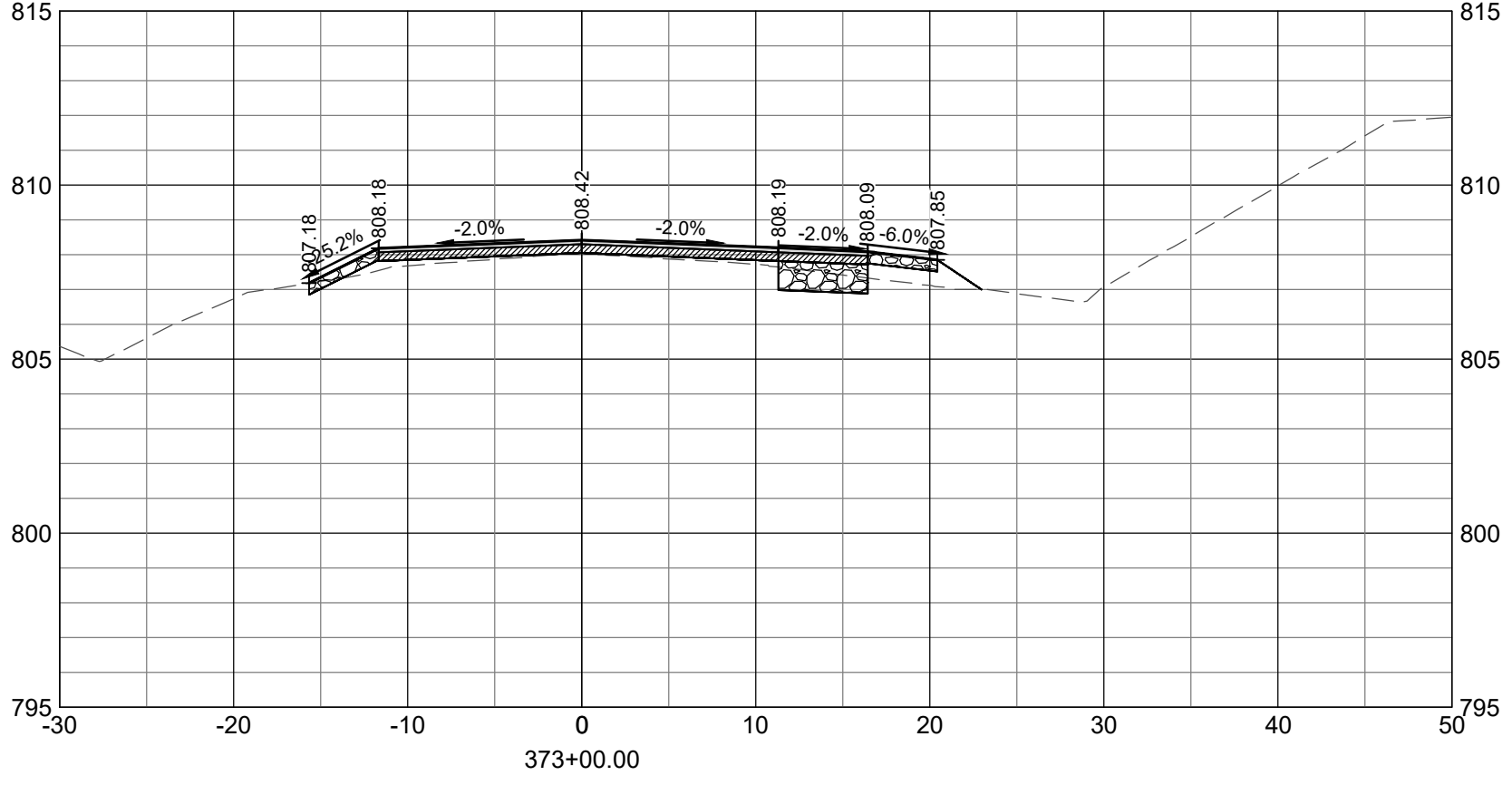
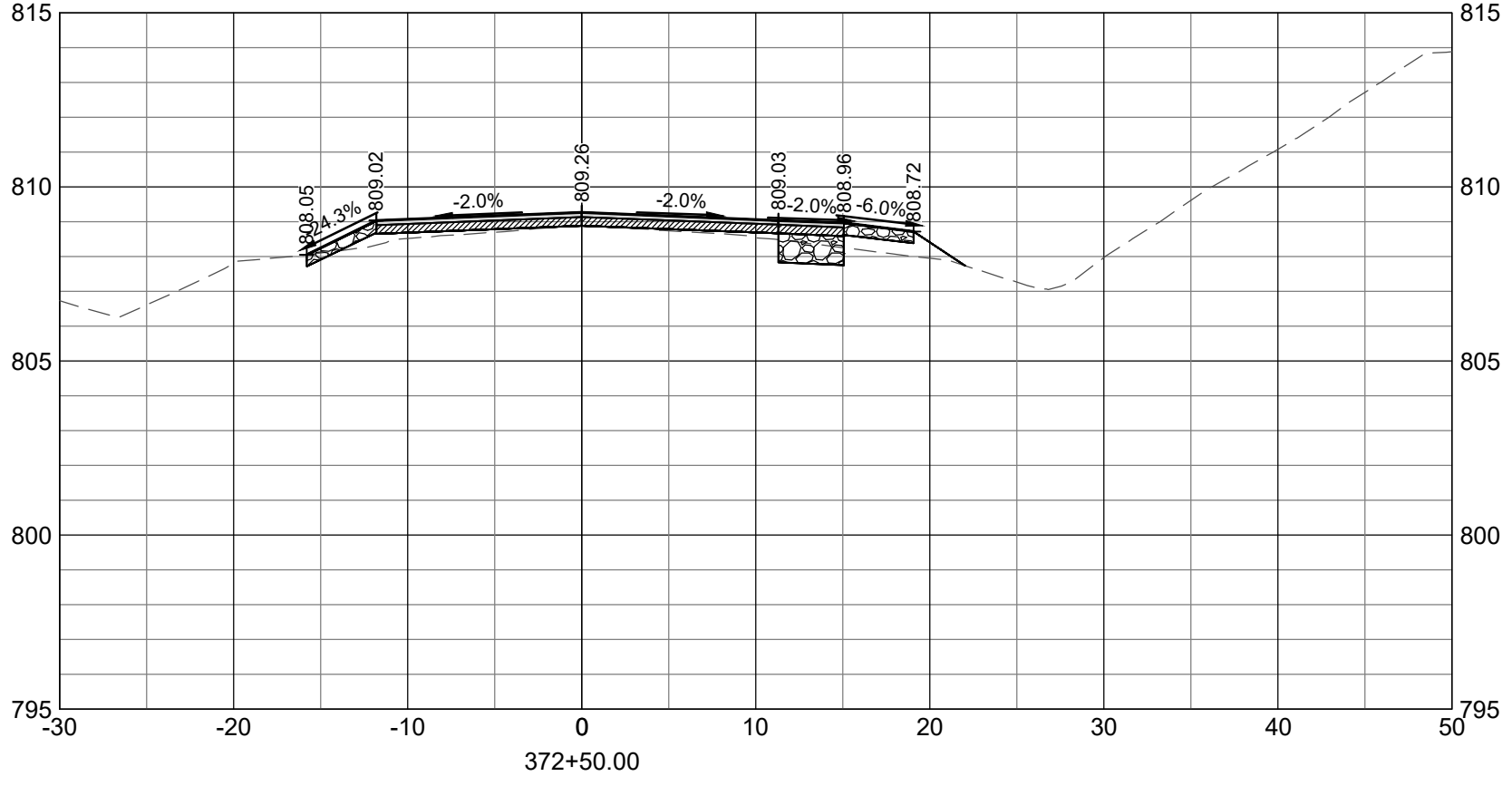
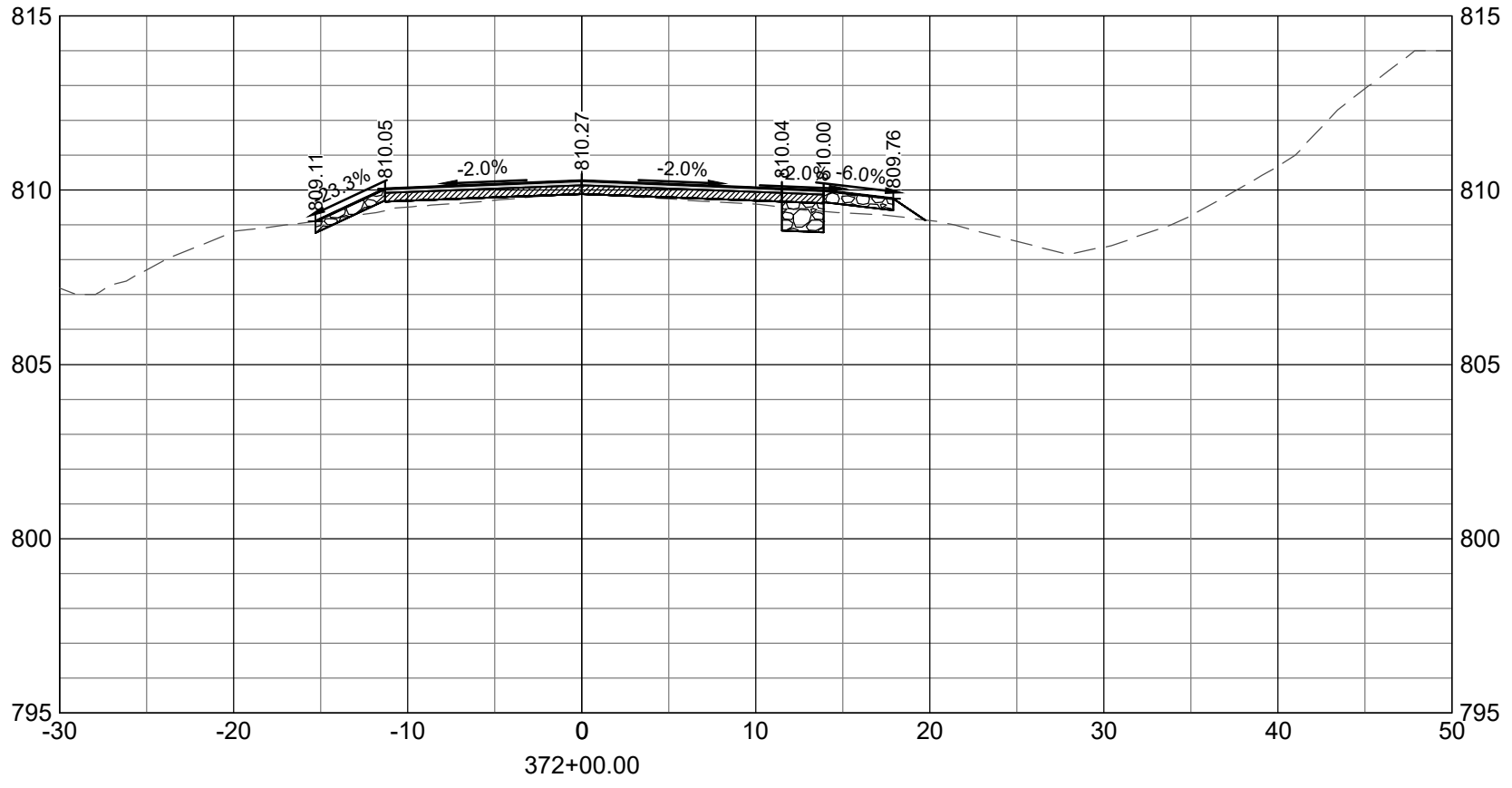
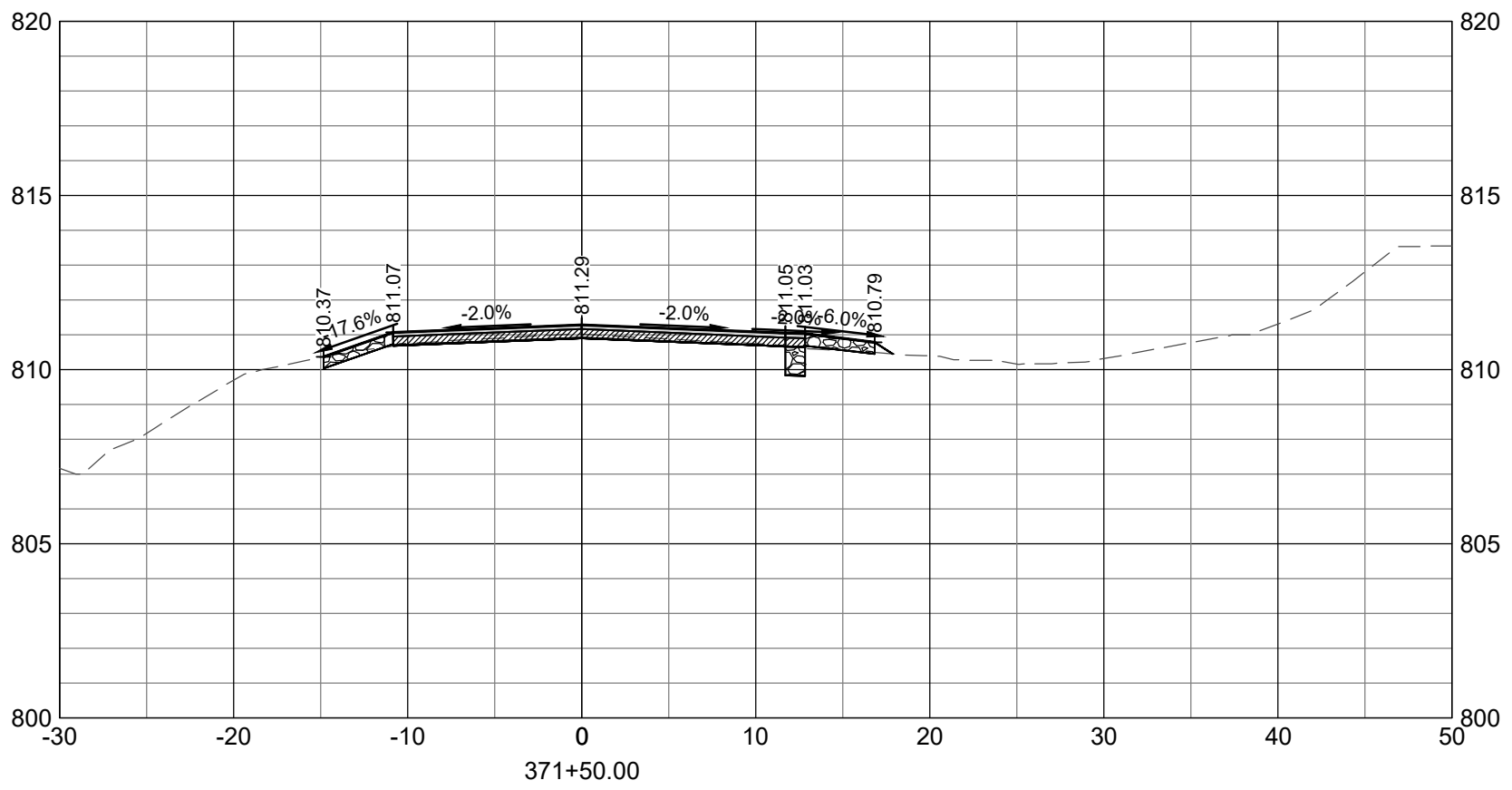
ROSCOE ROAD
CROSS SECTIONS
STA. 371+50 TO
377+00

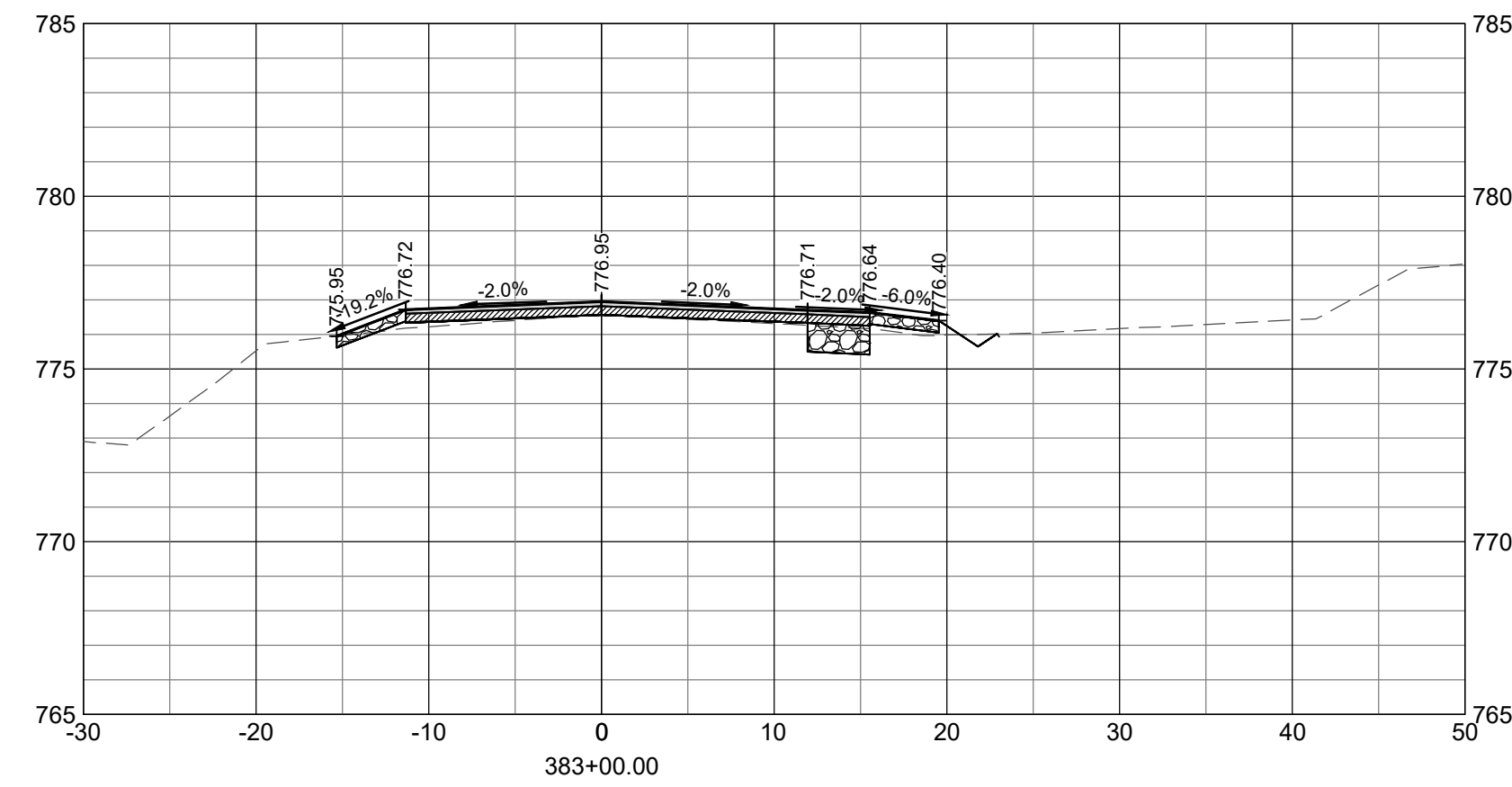
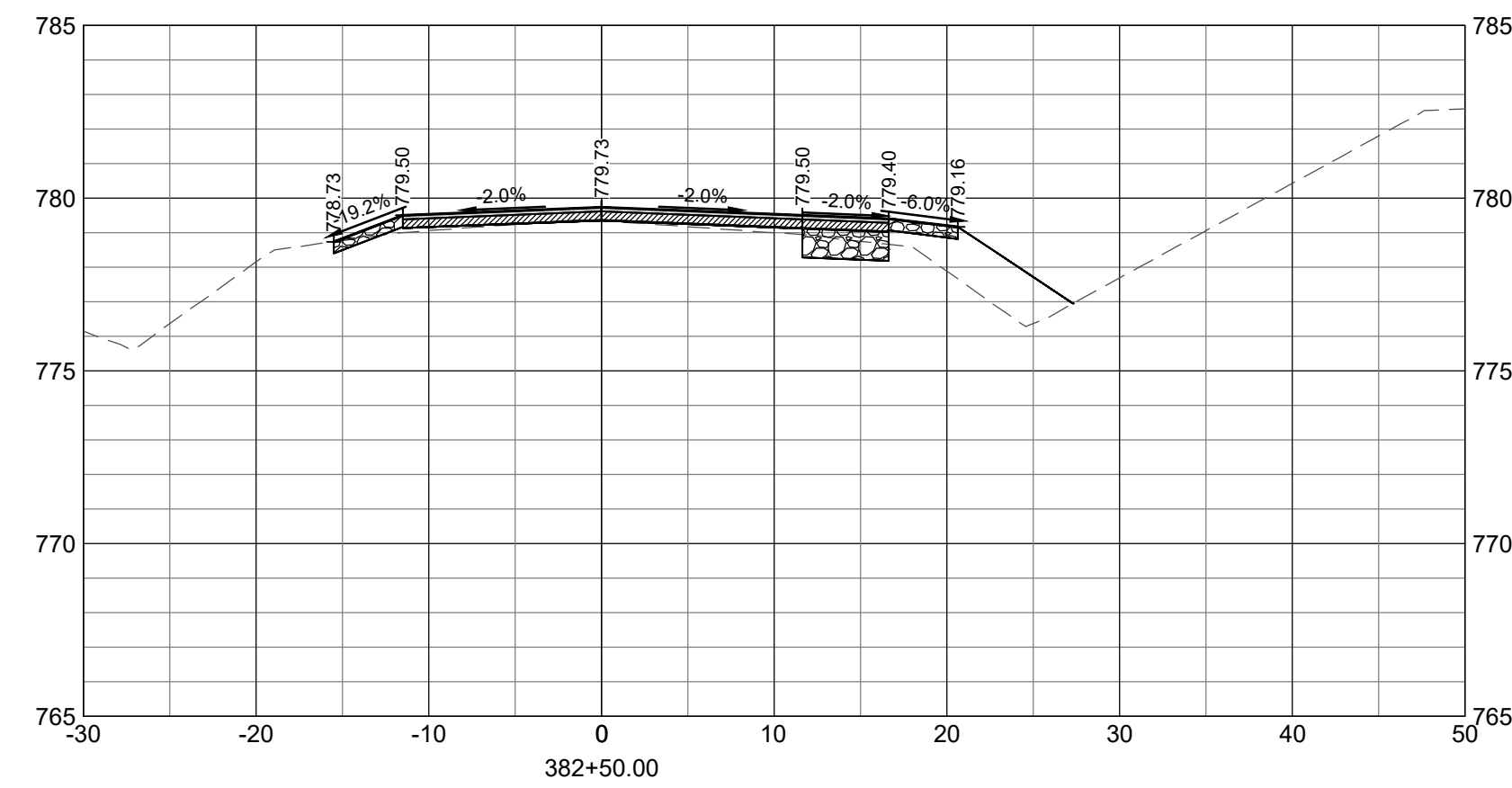
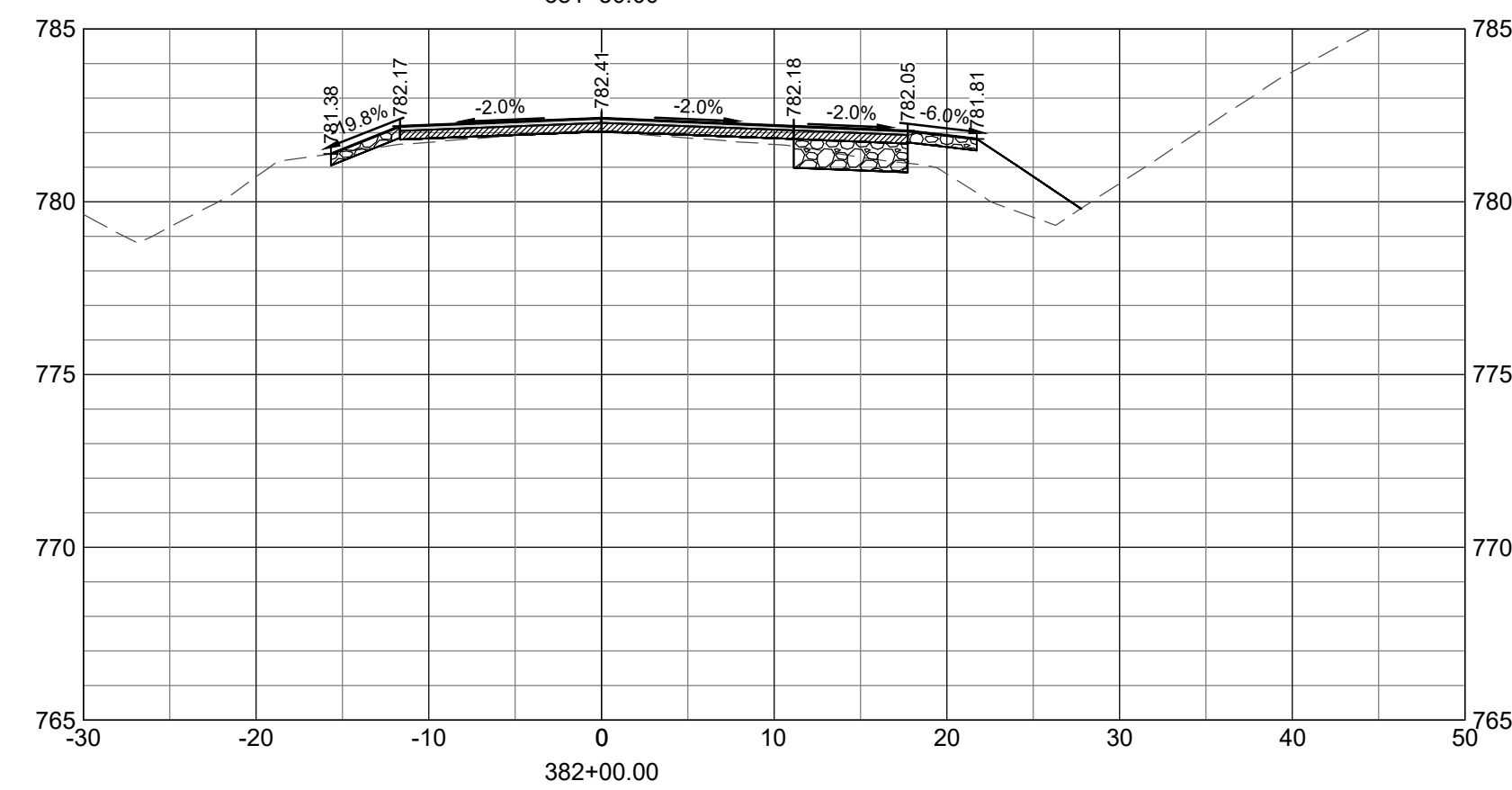
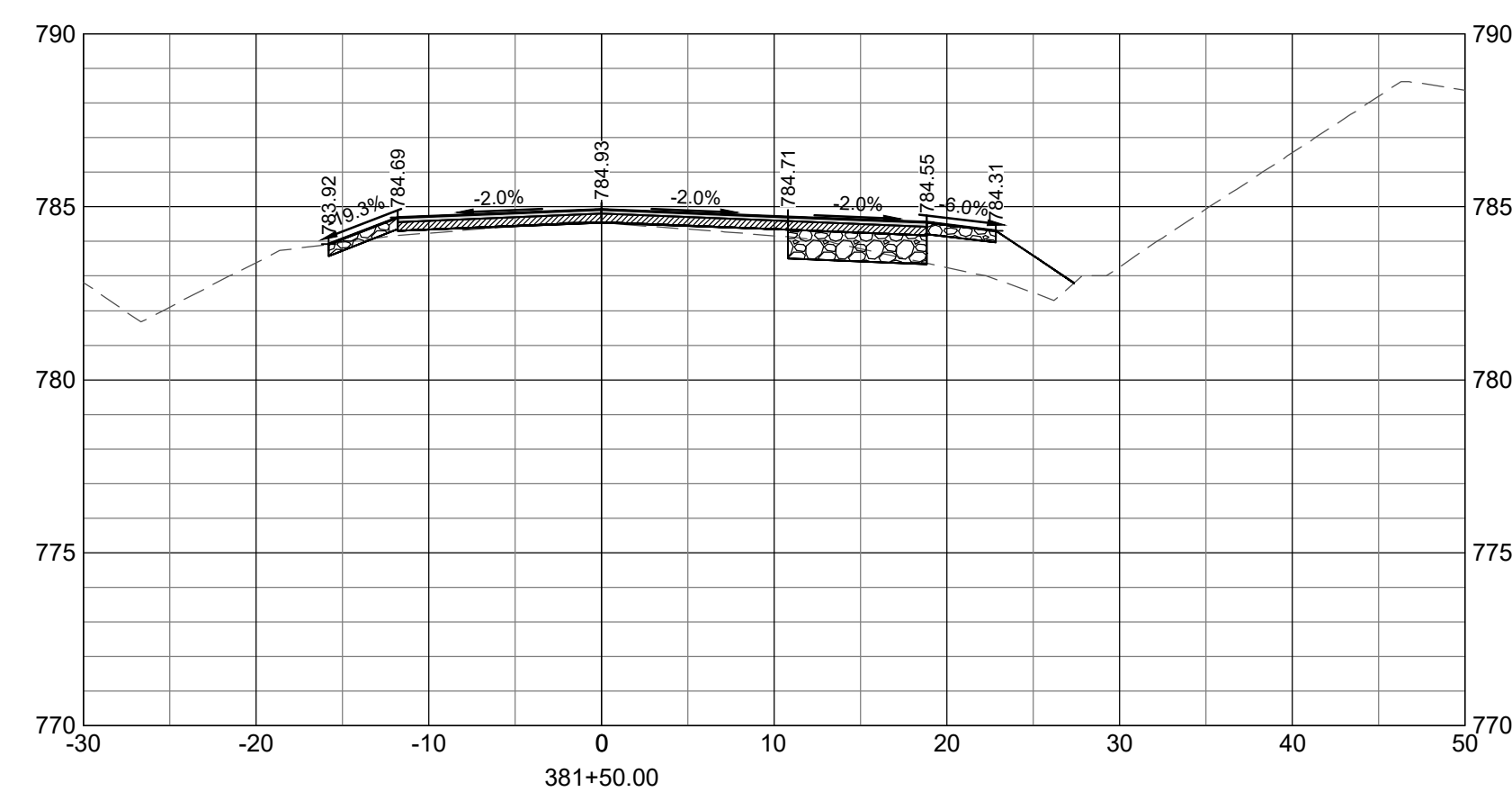
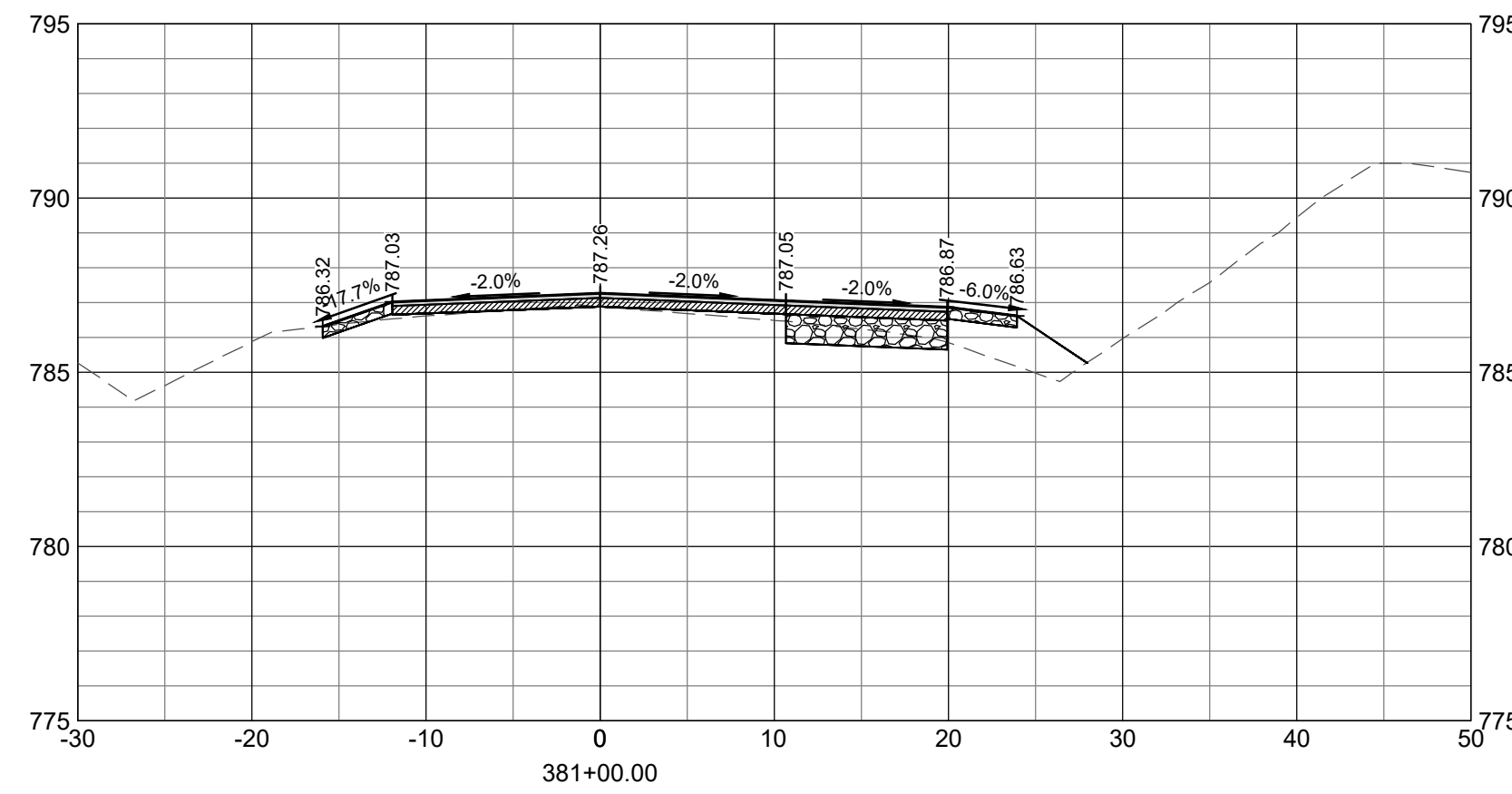
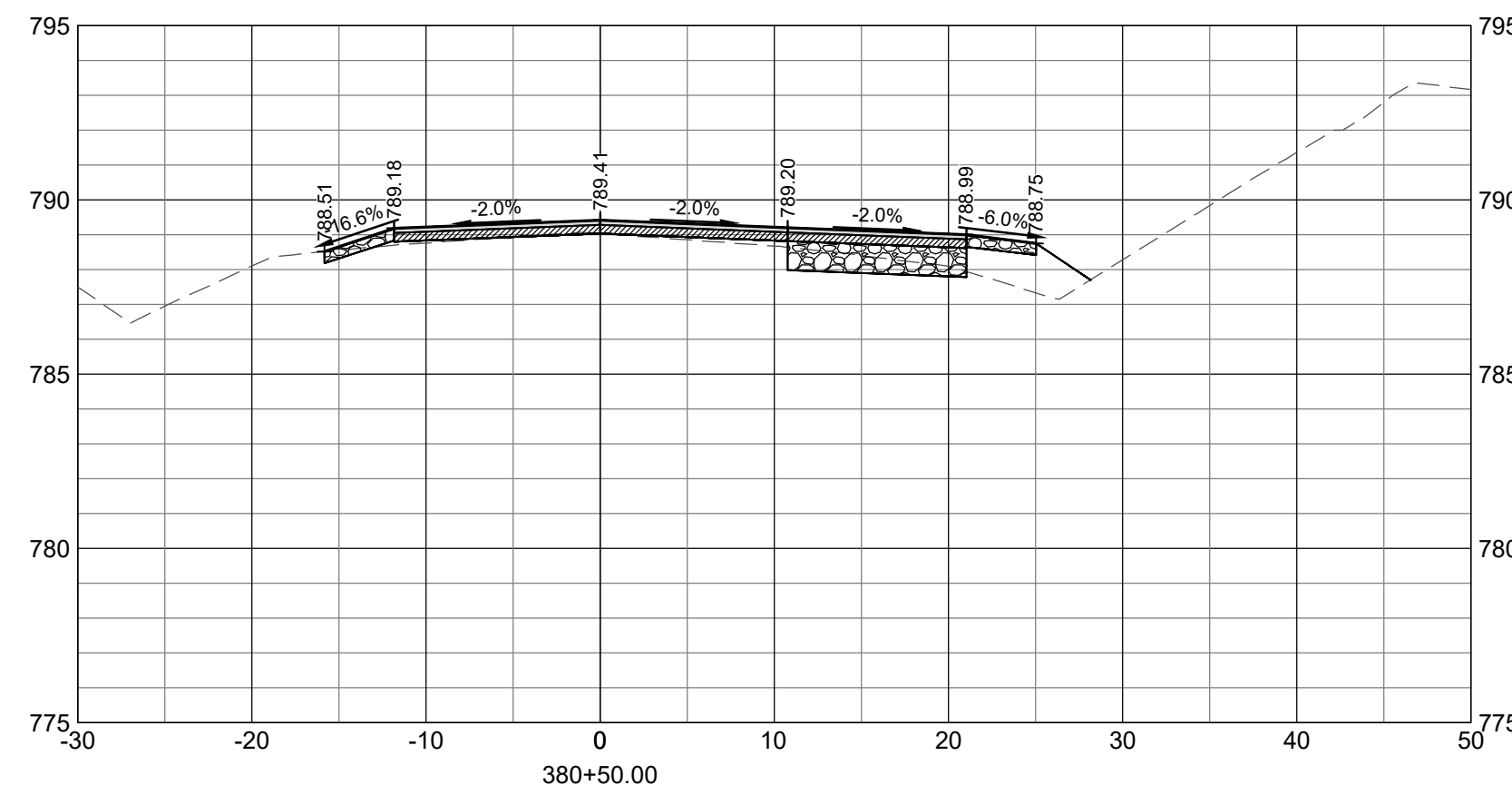
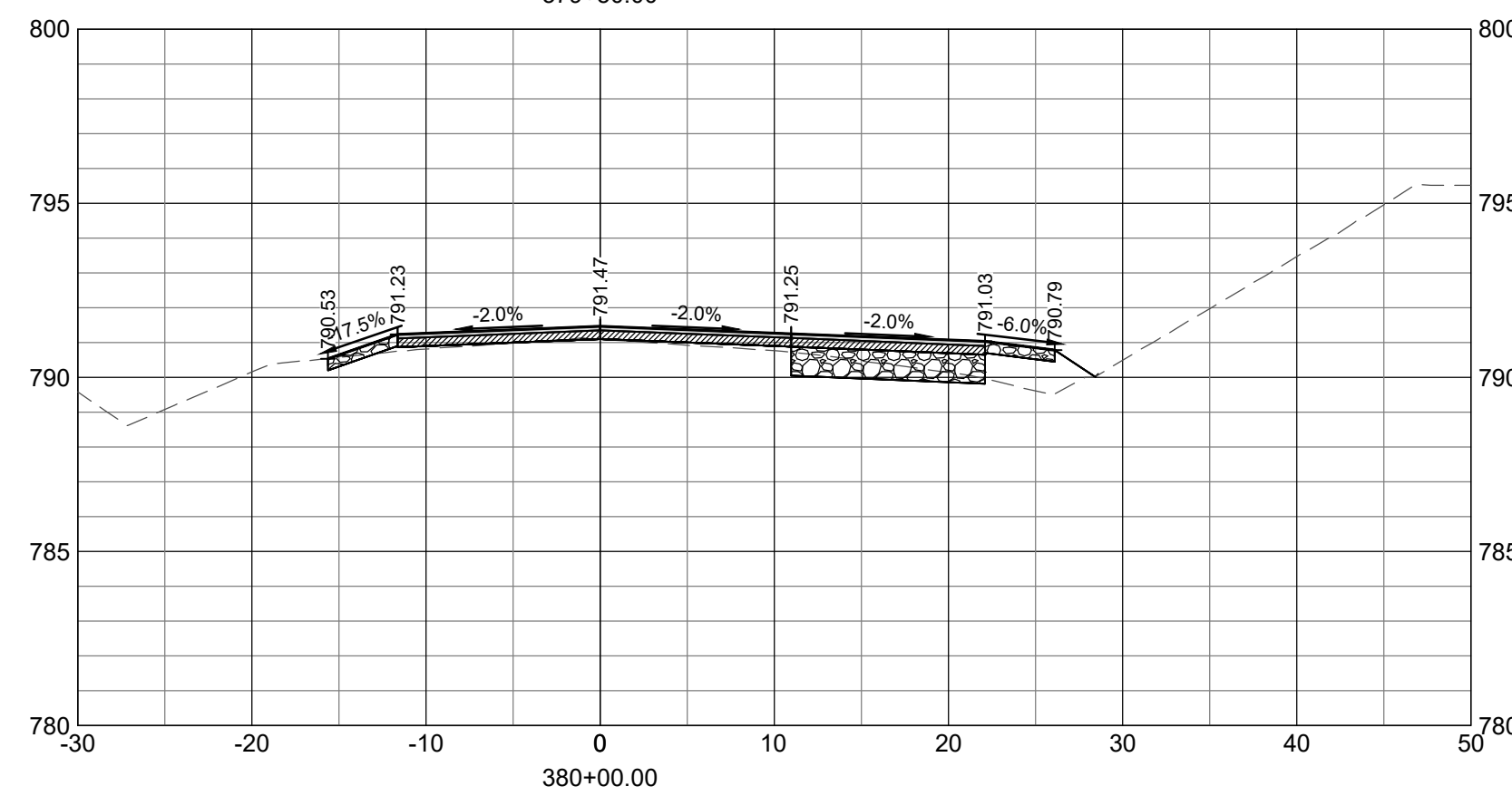
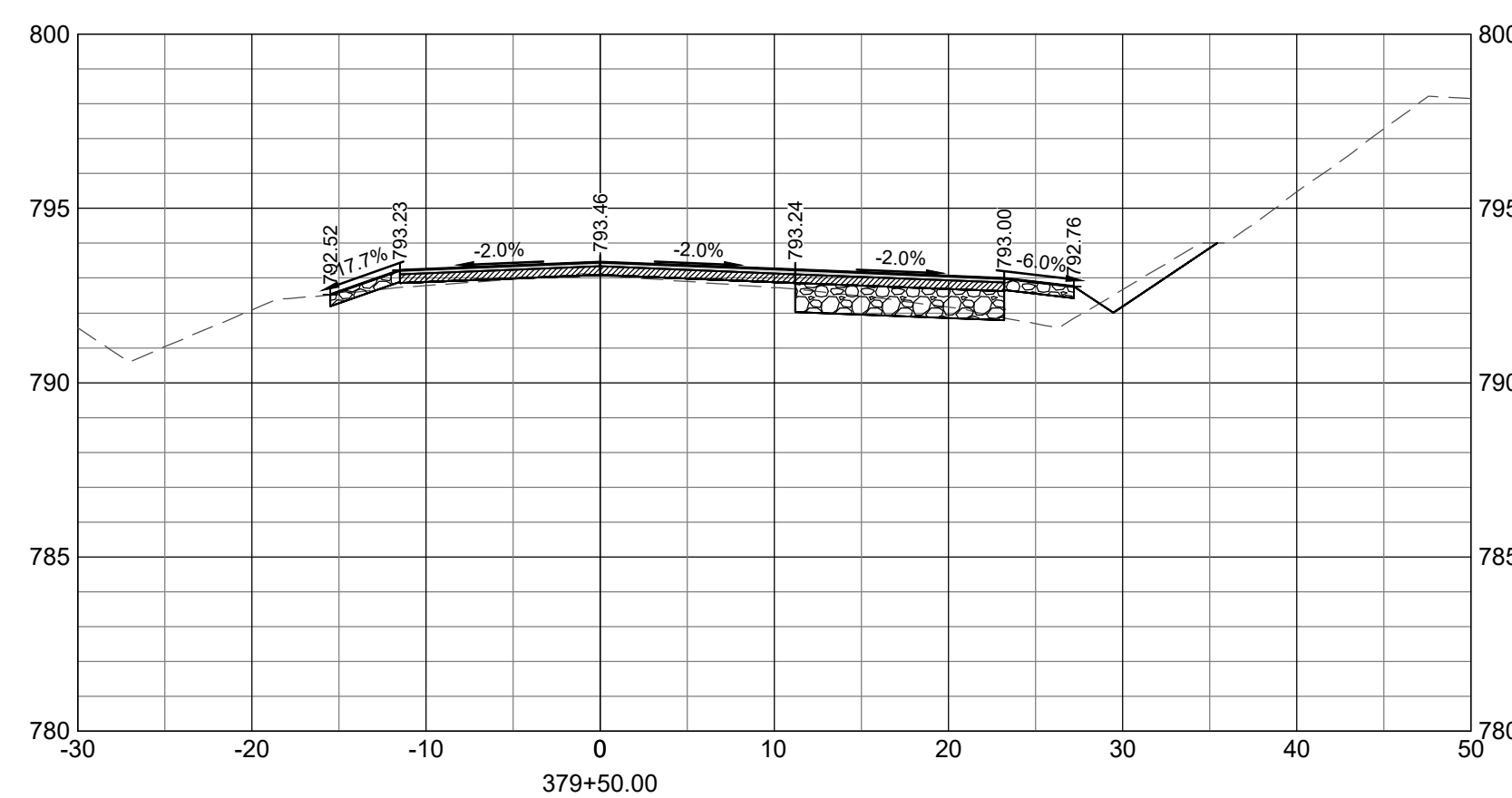
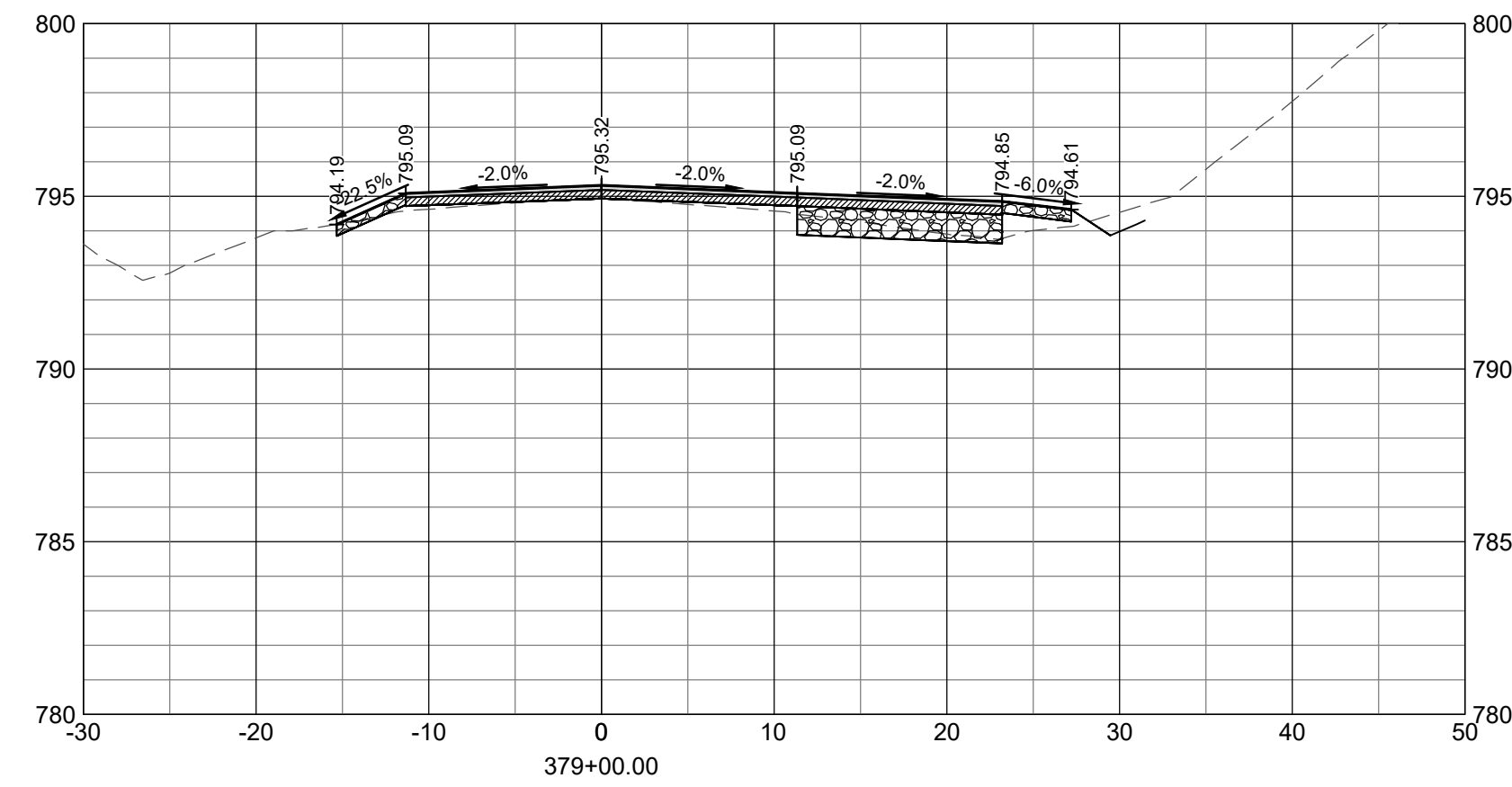
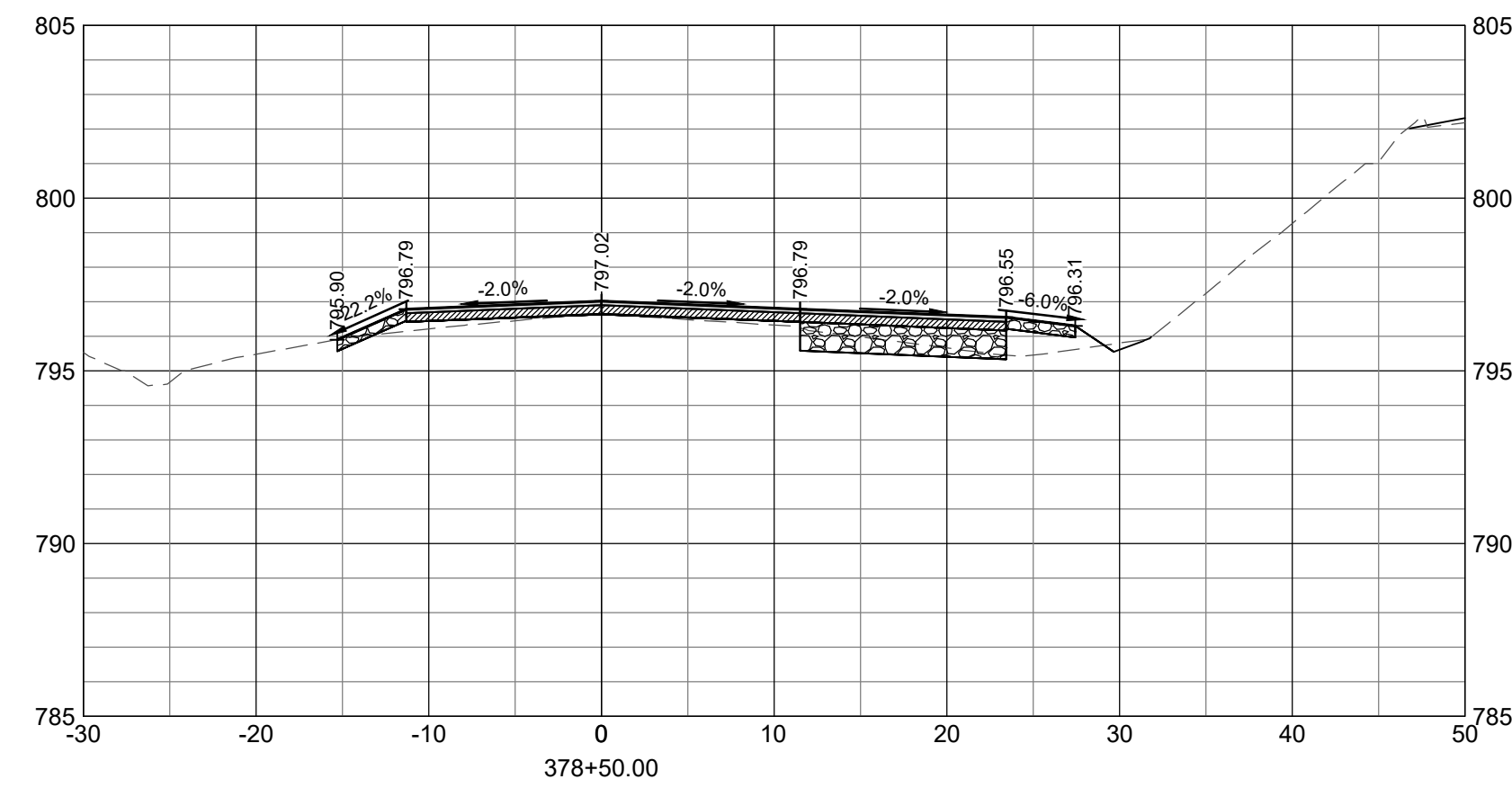
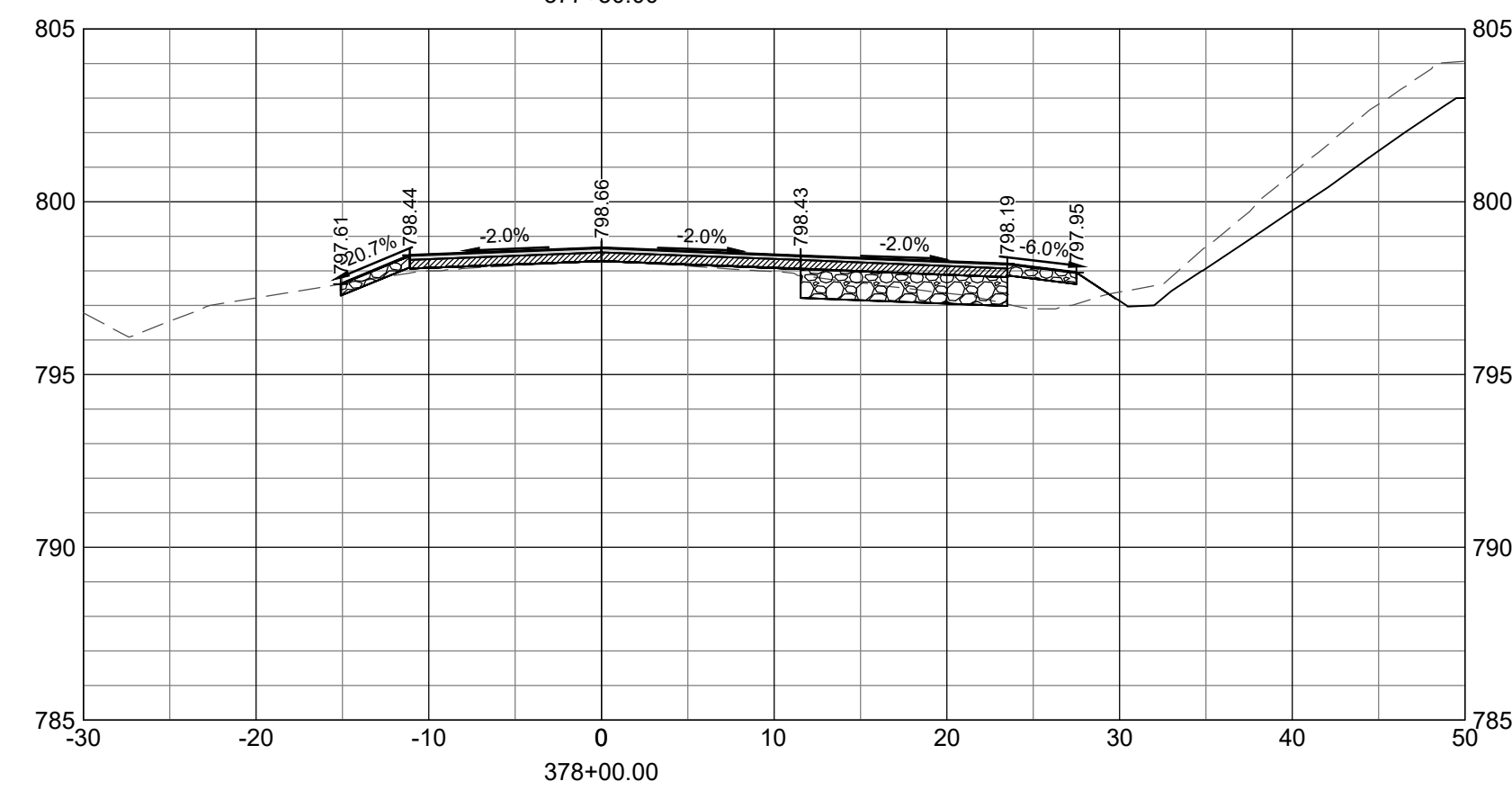
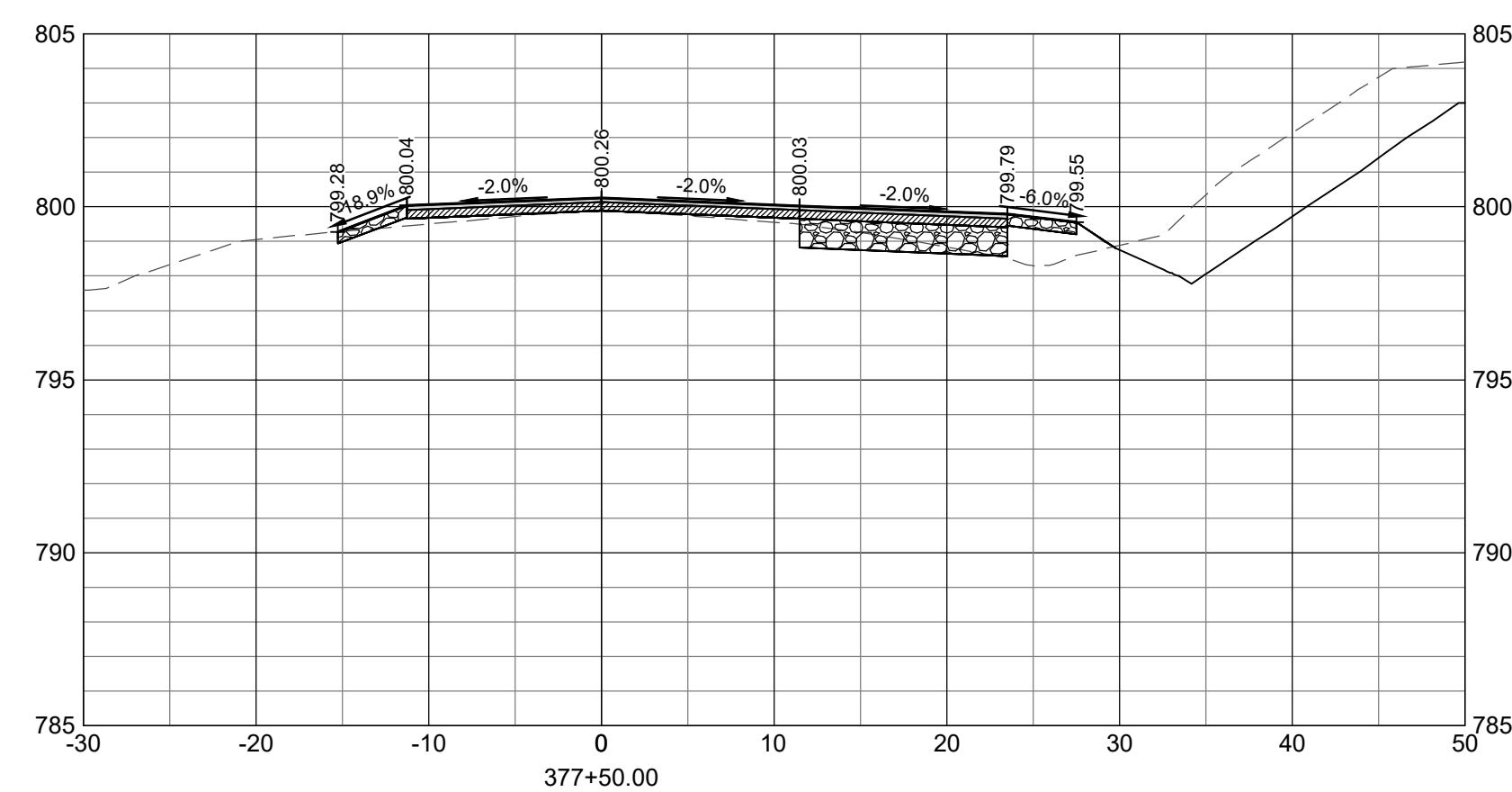
DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C17





PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

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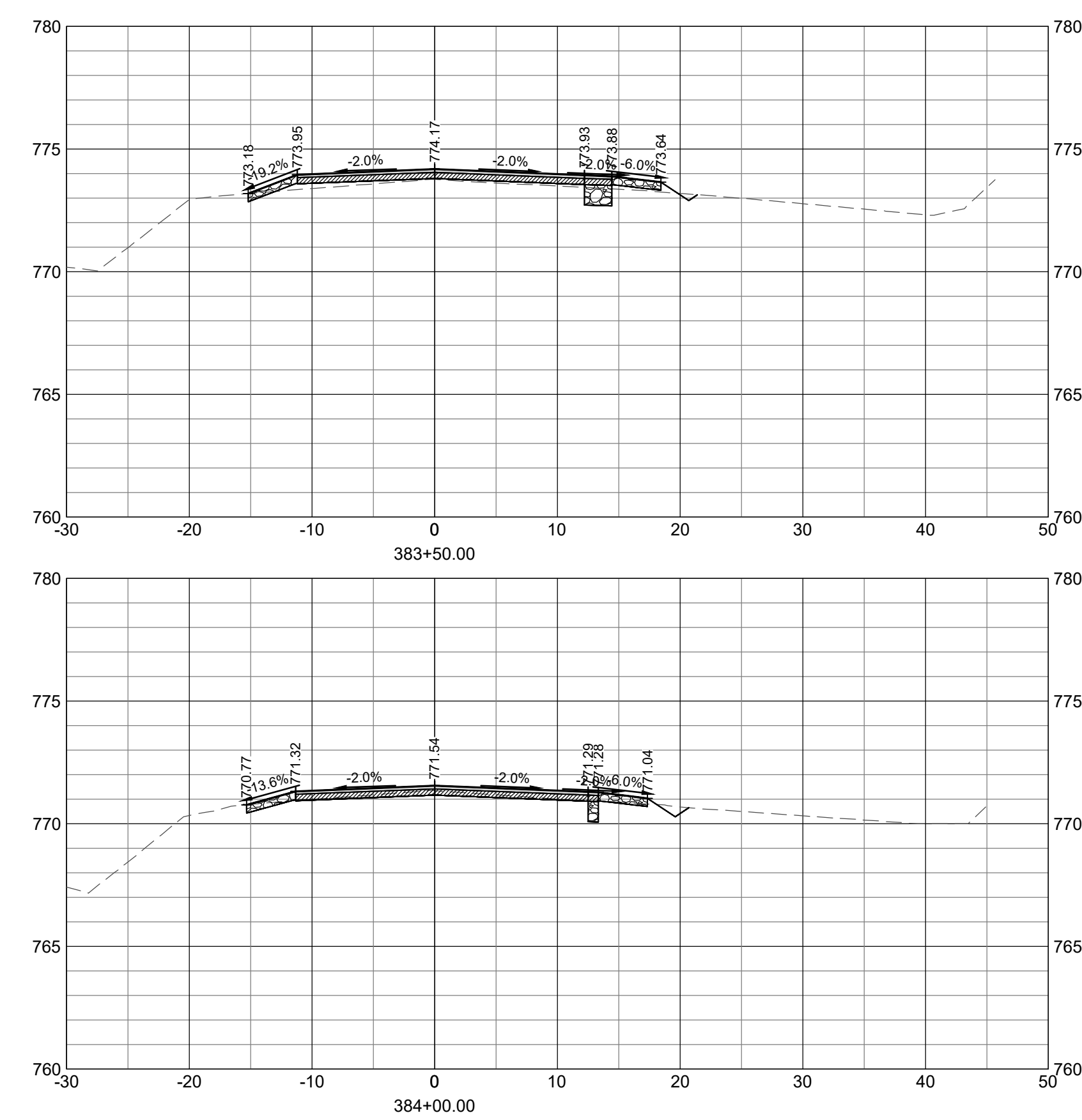
ROSCOE ROAD
CROSS SECTIONS
STA. 377+50 TO
383+00

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22012

C18



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HAWKS POINTE
PLAT 5

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SHEET TITLE

ROSCOE ROAD
CROSS SECTIONS
STA. 383+50 TO
384+00

DRAWN MJH

CHECKED JSL

PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C19

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
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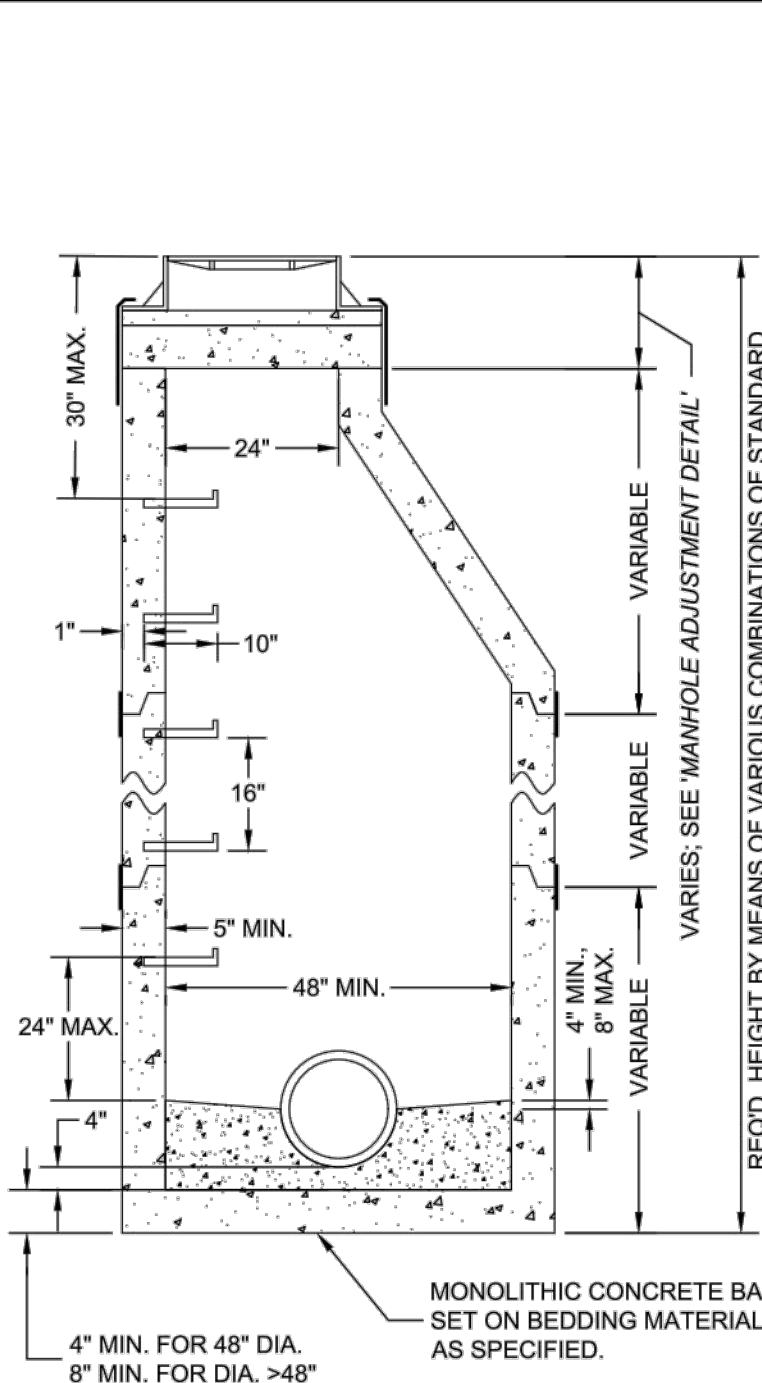
FRSA STANDARD DETAILS

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C20



STANDARD MANHOLE DETAIL
(*MANHOLE ADJUSTMENT DETAIL* SHALL APPLY)

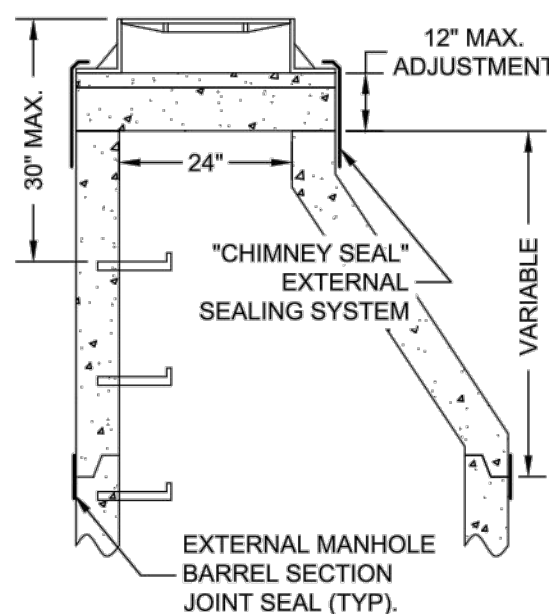
NOTES:

1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/4" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL)
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL, AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, AND SHALL BE ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED.

NOTES:

1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT, INCLUDING FRAME TO CONCRETE JOINT. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
8. MANHOLE FRAMES SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.

APPROVED FRAME & LID TABLE				
TYPE	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915-2101	R-1915-5016	---	---



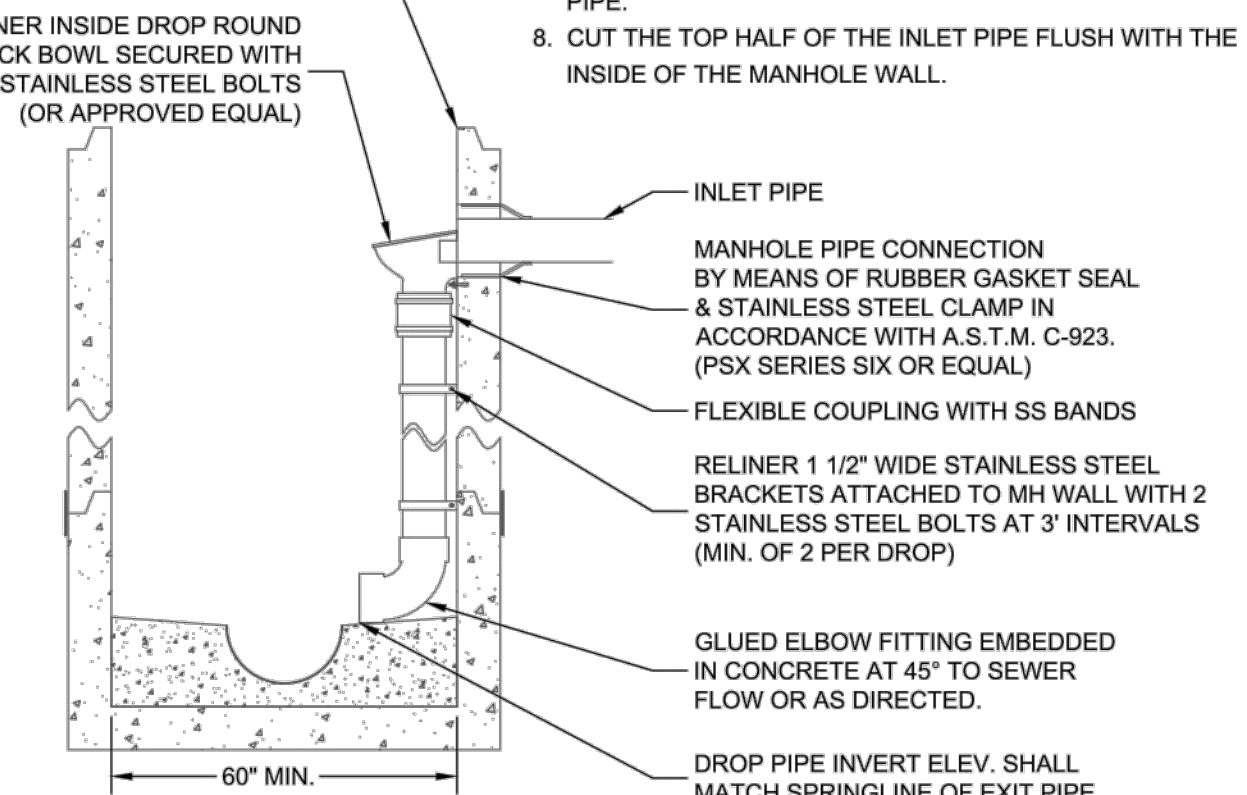
MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

DROP BOWL & DROP PIPE SIZING TABLE

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

* PER MFG. OR AS DIRECTED BY FRSA

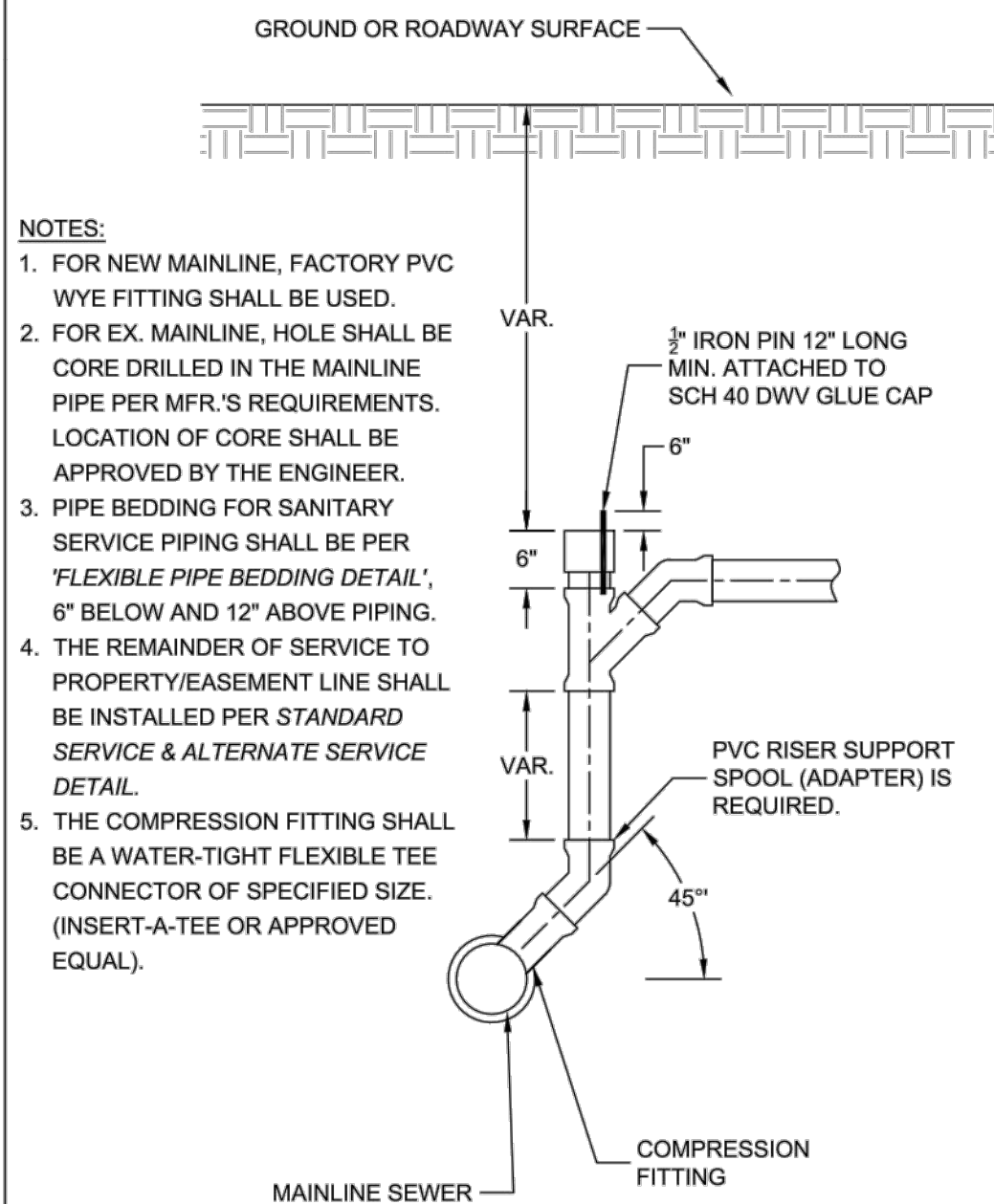
SEE 'STANDARD MANHOLE DETAIL' FOR MANHOLE REQUIREMENTS



INSIDE DROP CONNECTION DETAIL
(*STANDARD MANHOLE DETAIL* SHALL APPLY)

NOTES:

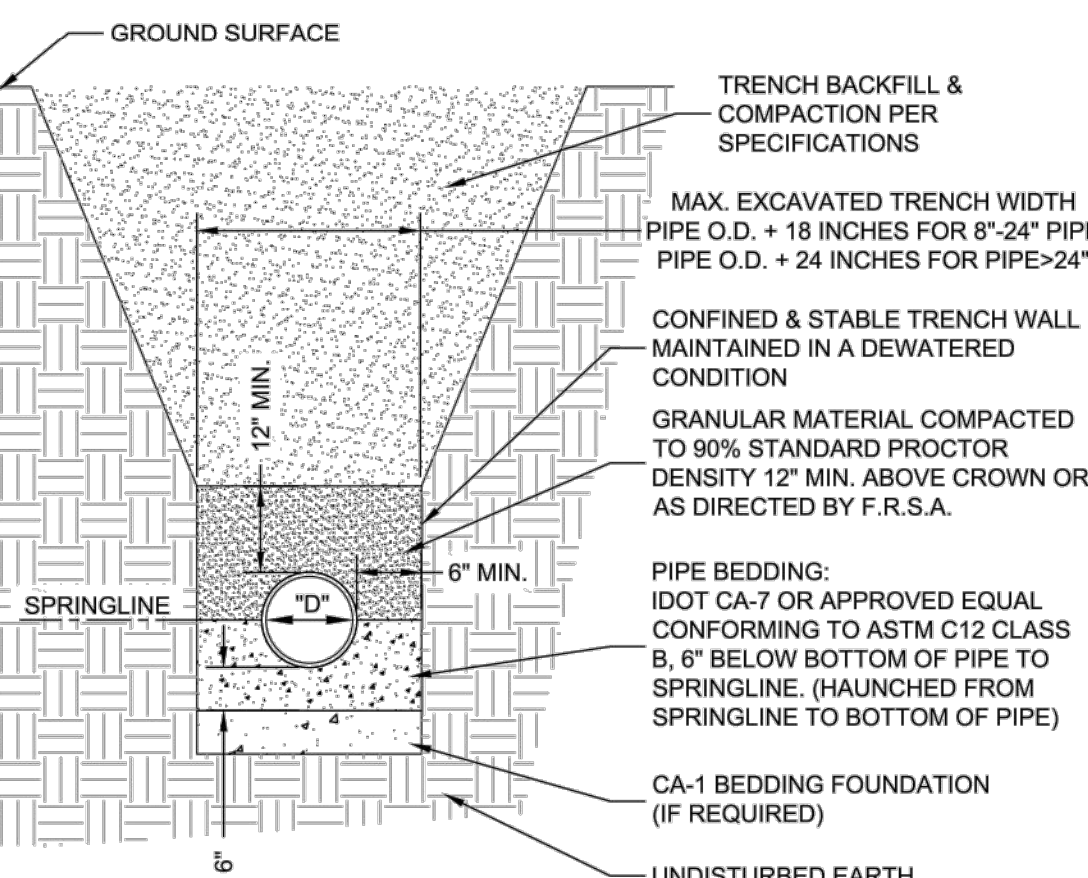
1. INSIDE DROP TYPE MANHOLES SHALL BE 5" MIN. INSIDE DIA.
2. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS MFG. BY RELINER-DURAN INC., OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
6. THE DROP BOWL SHALL BE PLACED AT A HEIGHT SO THAT THE FLOW LINE OF THE BOWL IS 2 INCHES BELOW THE INVERT OF THE INCOMING PIPE.
7. CUT A 1" DEEP BY 3" WIDE "V" NOTCH IN INVERT OF INLET PIPE.
8. CUT THE TOP HALF OF THE INLET PIPE FLUSH WITH THE INSIDE OF THE MANHOLE WALL.



VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

NOTES:

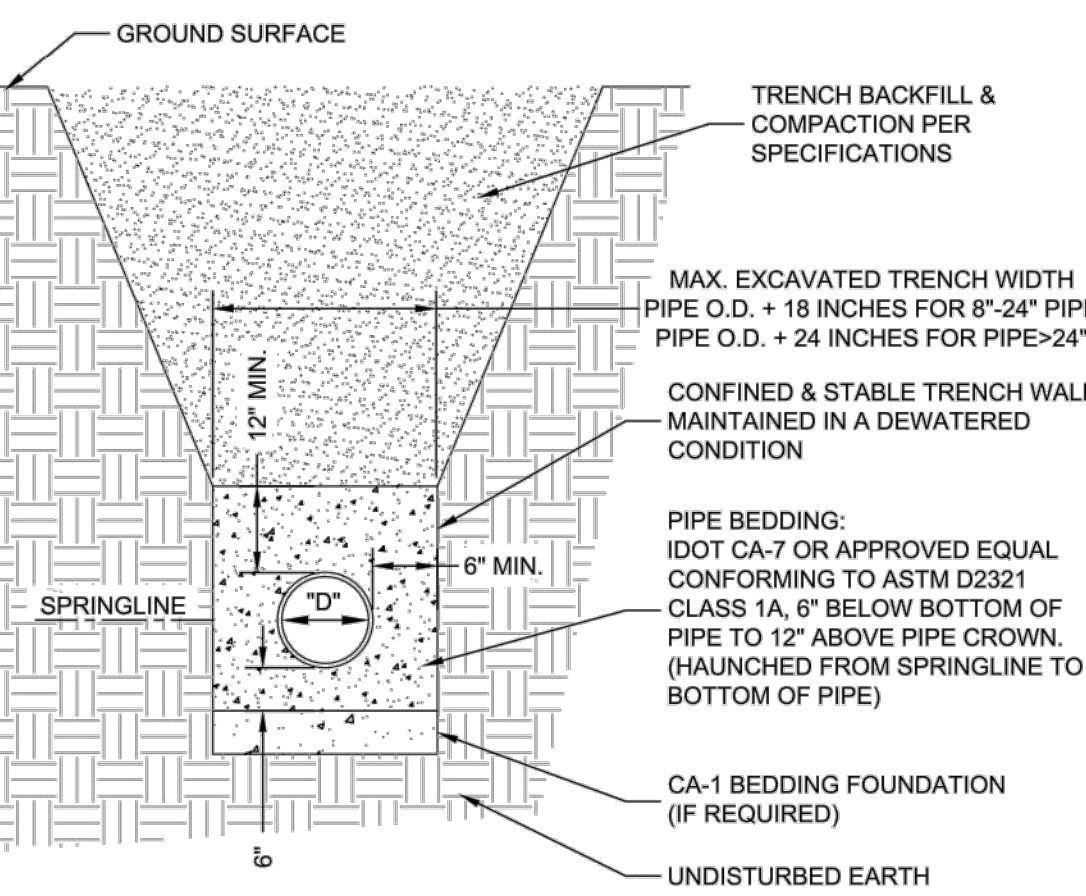
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



RIGID PIPE BEDDING DETAIL

NOTES:

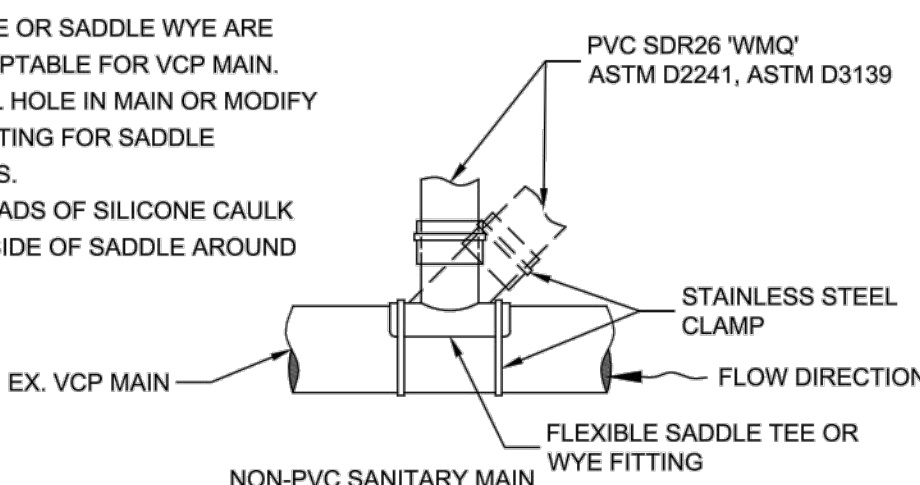
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



FLEXIBLE PIPE BEDDING DETAIL

NOTES:

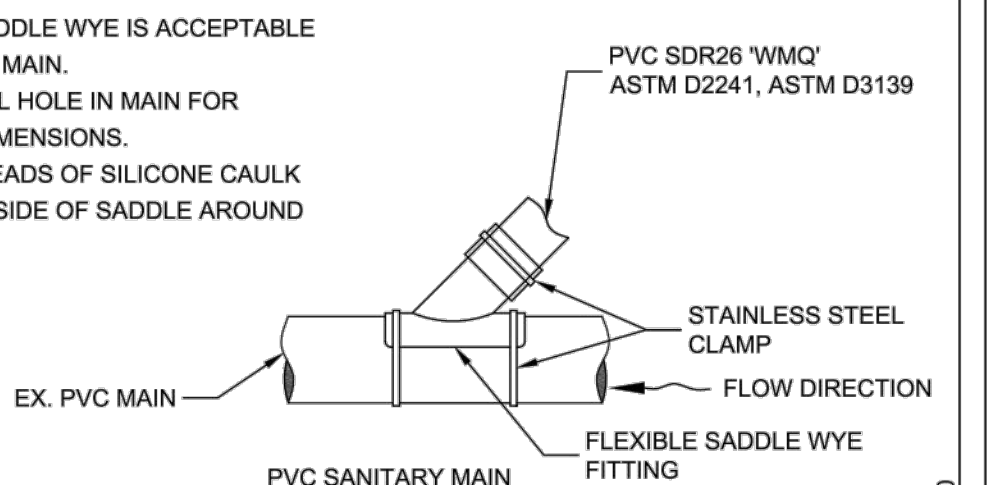
1. SADDLE TEE OR SADDLE WYE ARE BOTH ACCEPTABLE FOR VCP MAIN.
2. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



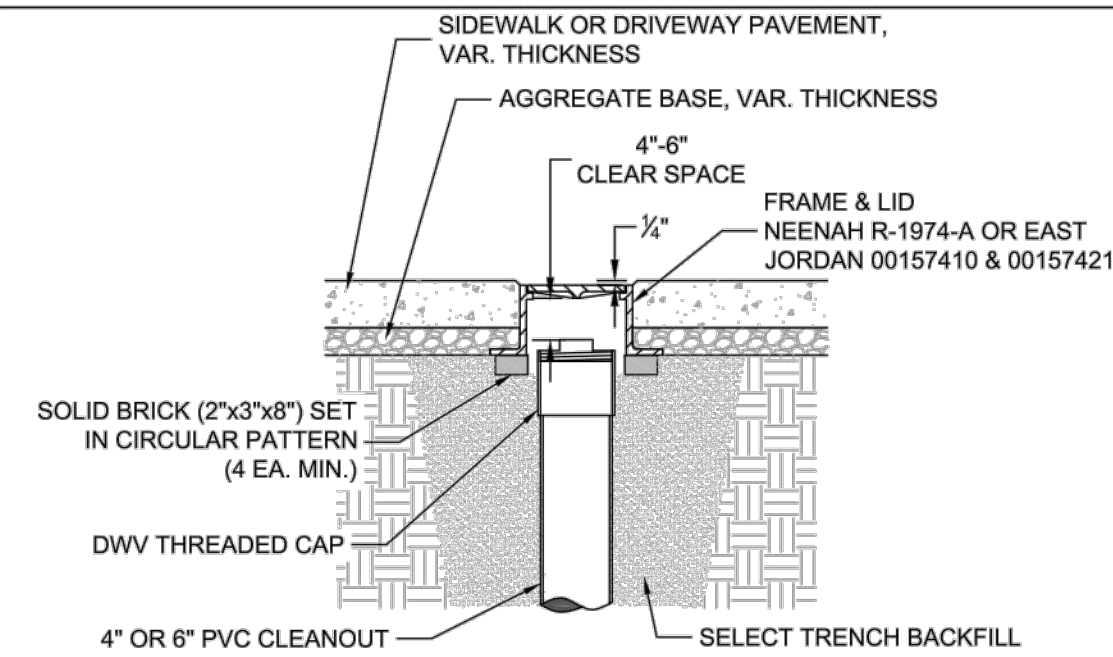
FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

NOTES:

1. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



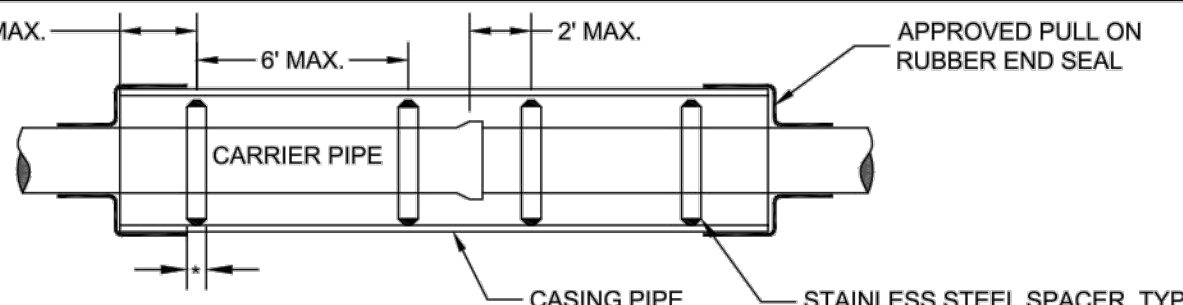
FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)



NOTES:

1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
6. THE FRAME SHALL BE SET 1/2" MIN. TO 3/8" MAX. BELOW FINAL PAVEMENT ELEVATION.

SERVICE CLEANOUT CASTING DETAIL



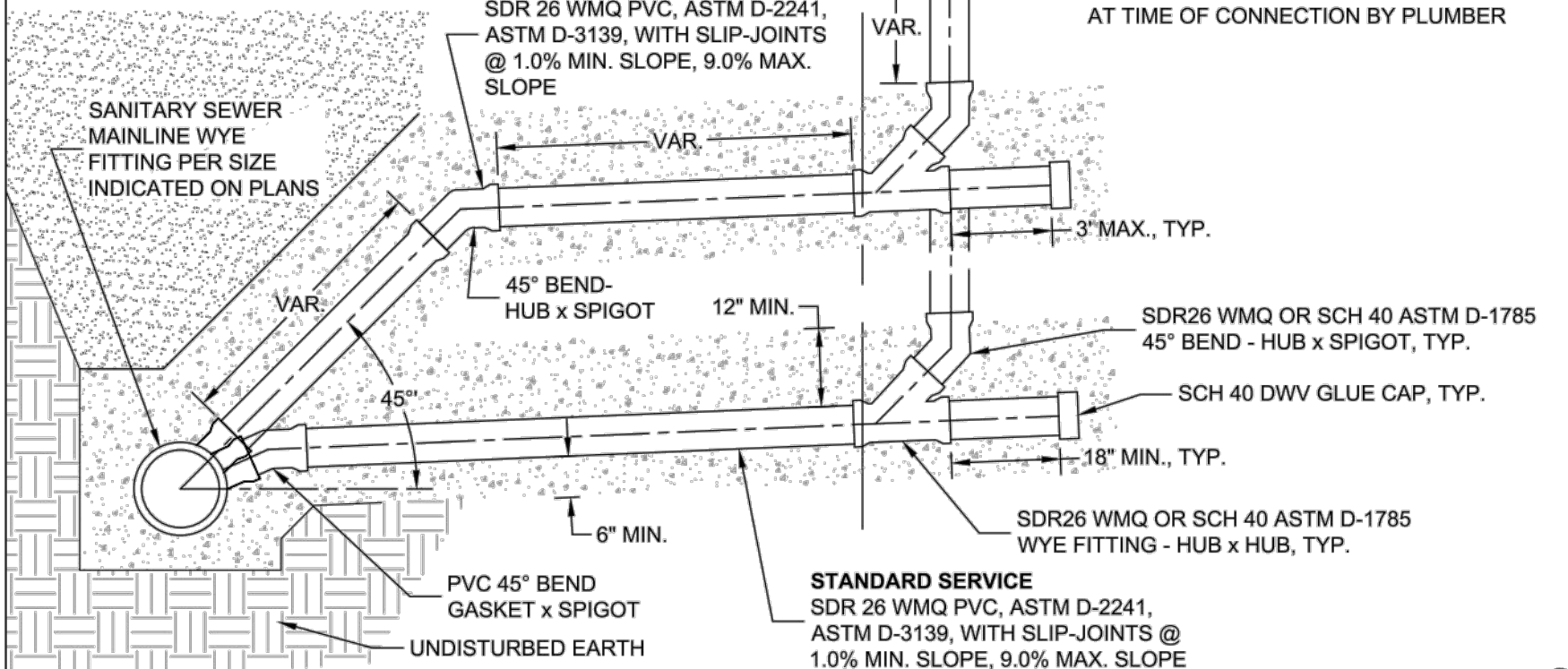
NOTES:

1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

NOTES:

1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER 'FLEXIBLE PIPE BEDDING DETAIL' OR 'RIGID PIPE BEDDING DETAIL'.
2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2685.
4. ALL SDR26 WMO PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.
7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.
8. CLEANOUT RISERS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS SHALL WILL REQUIRE A CLEANOUT FRAME & LID PER THE FRSA 'SERVICE CLEANOUT CASTING DETAIL'.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)



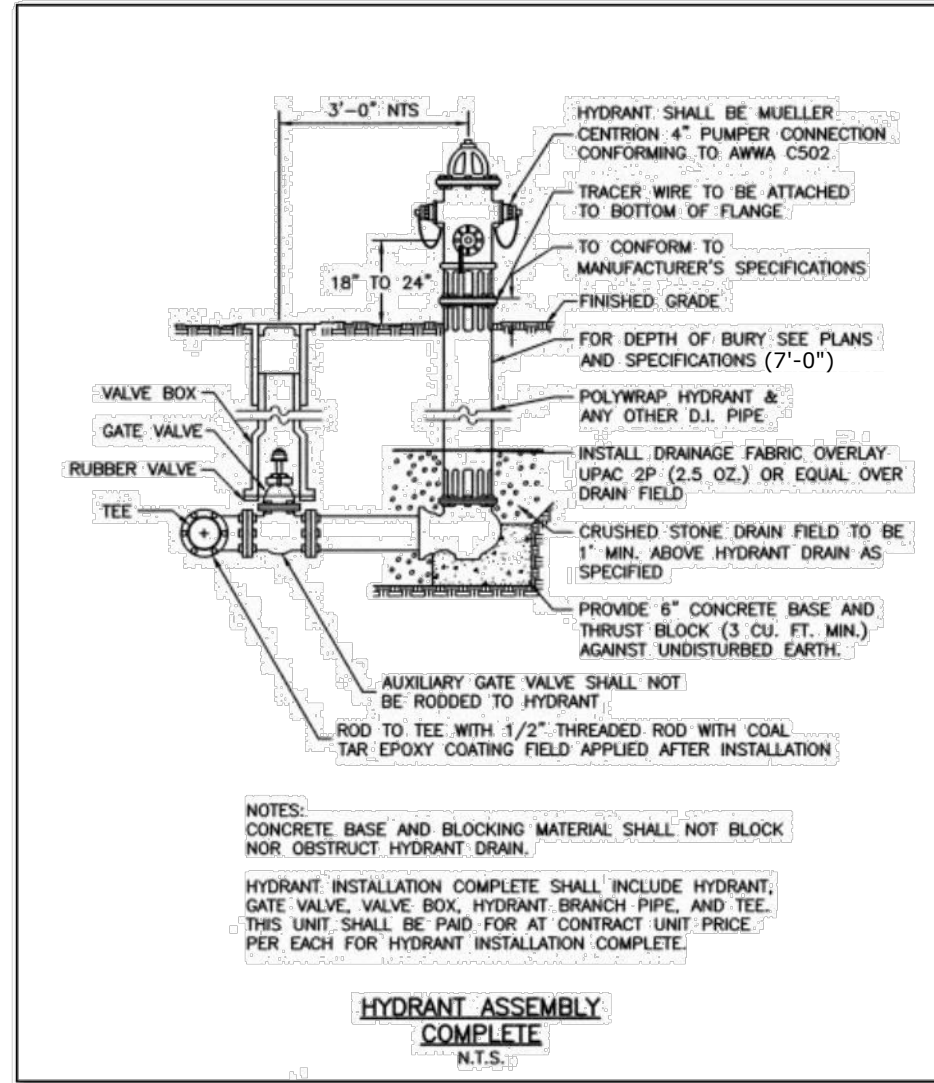
FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET

(NOT TO SCALE)

3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

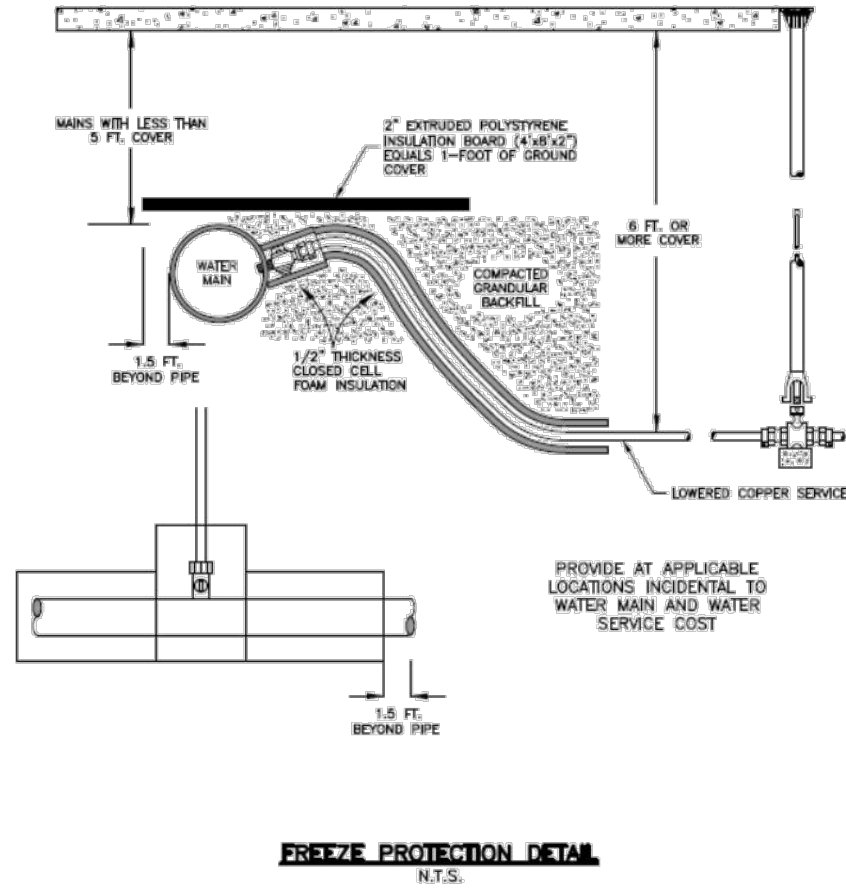
ISSUE
06/01/2022

5.03 Typical Standard Details
5.03.1 Fire Hydrant Installation



37

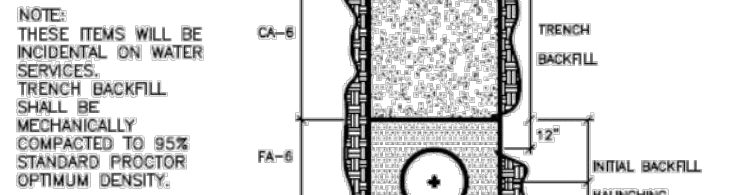
5.03.10 Freeze Protection Detail



46

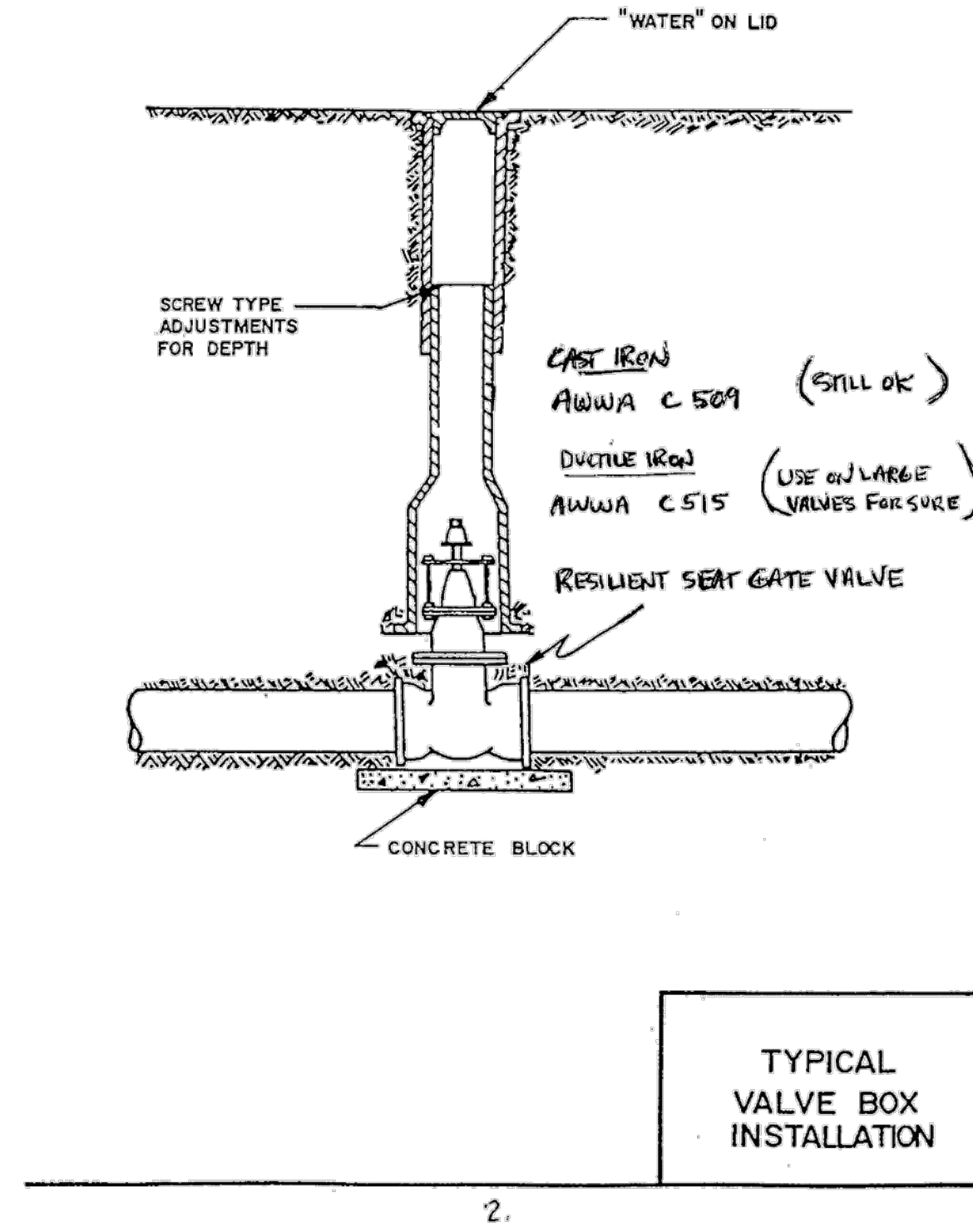
5.03.12 Trench Backfill and Select Foundation Material Pay Limit Schedule

- NOTES:
1. THE CONTRACTOR SHALL INSURE THAT ALL TRENCHING OPERATIONS CONFORM TO THE LATEST OSHA REGULATIONS.
 2. PIPE BEDDING MATERIAL AND GRANULAR BACKFILL MATERIAL SHALL BE THE SAME AS TRENCH BACKFILL MATERIAL.
 3. GRANULAR BACKFILL AND BEDDING MATERIAL SHALL BE INCIDENTAL TO THE CONTRACT.
 4. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED AT A MAXIMUM OF 12" INCREMENTS TO SEEK STANDARD PROCTOR OPTIMUM DENSITY.
 5. APPROVED EXCAVATED MATERIAL SHALL MEET THE REQUIREMENTS OF ARTICLE 1003.04 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. NO COMPENSATION WILL BE ALLOWED AS TRENCH BACKFILL FOR THE PORTION OF THE TRENCH BACKFILLED WITH EXCAVATED MATERIAL.
 6. AG-LIME (FA20/FA21) WILL NOT BE ALLOWED FOR TRENCH BACKFILL MATERIAL.
 7. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE SAND. TRENCH BACKFILL SHALL BE CA-6.

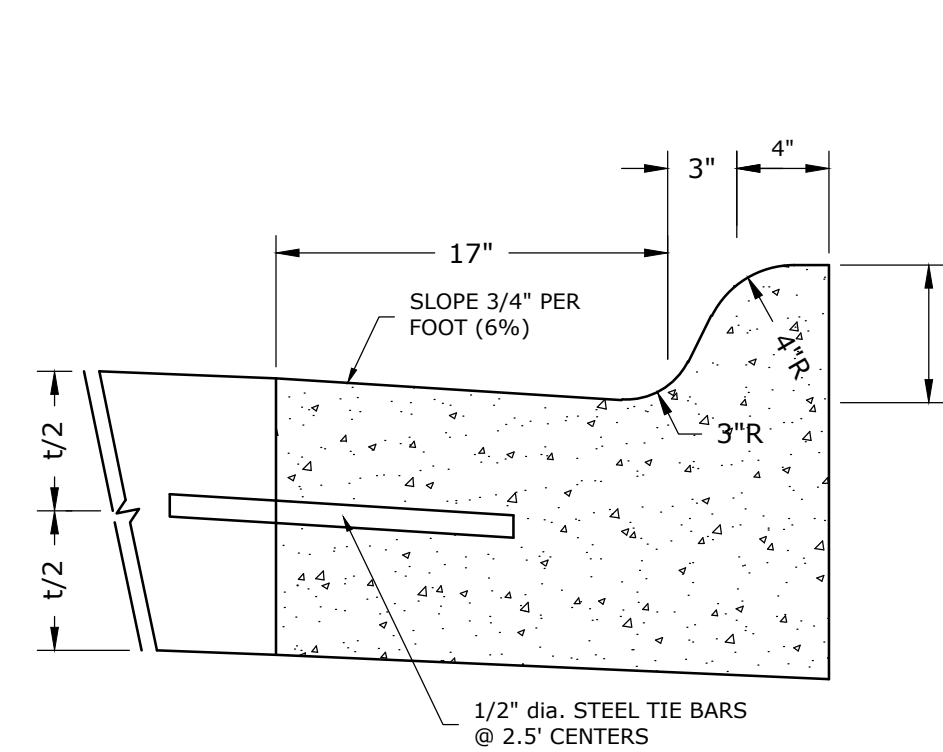


**TRENCH BACKFILL AND SELECT FOUNDATION
MATERIAL PAY LIMIT SCHEDULE**
N.T.S.

48



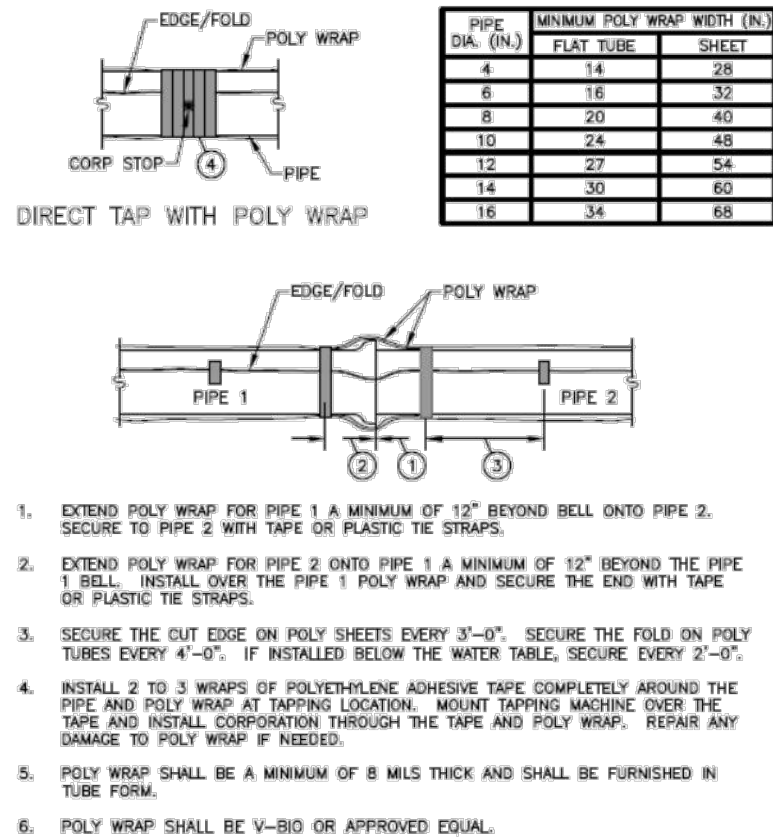
CONCRETE CURB & GUTTER, TYPE M-6.18 (MODIFIED)



t SHALL BE 9" MINIMUM WHEN ADJACENT TO FLEXIBLE PAVEMENT.

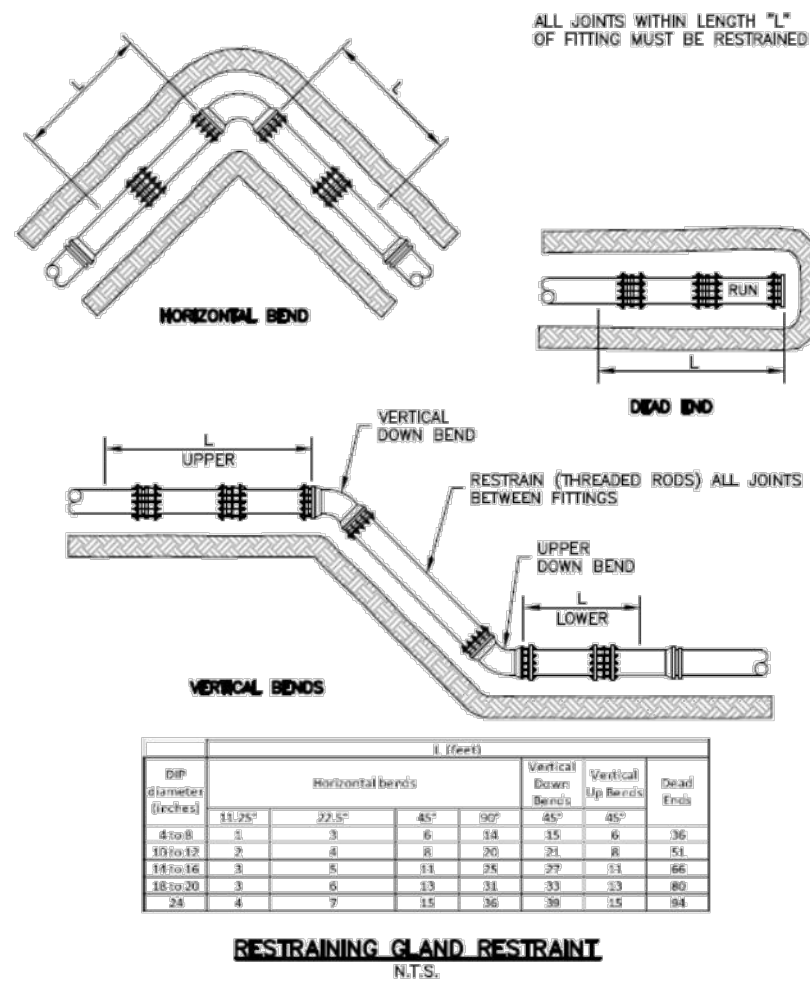
EXPANSION JOINTS AT 100' INTERVALS AND AT CONSTRUCTION JOINTS
INCLUDING
1" PREMOULDED JOINT FILLER AND 1" SMOOTH DOWELS (2).
CONSTRUCTION JOINTS AT 25' INTERVALS.

5.03.9 Polyethylene Encasement (Poly Wrap) Installation Detail



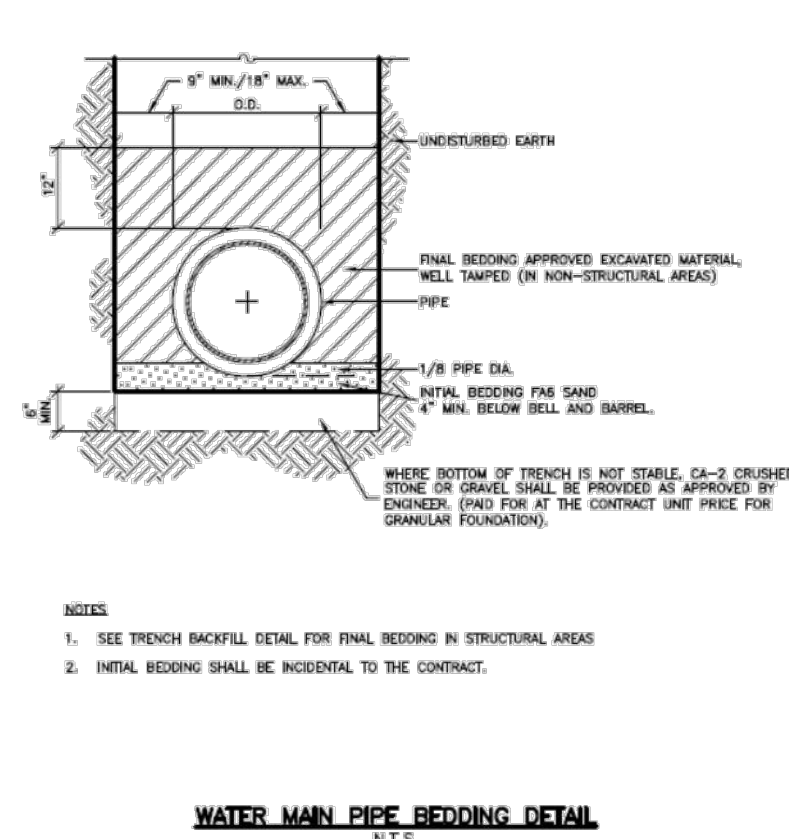
45

5.03.11 Restraining Gland Restraint



47

5.03.13 Water Main Pipe Bedding Detail



49

**ARC DESIGN
RESOURCES INC.**

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

**HAWKS POINTE
PLAT 5**

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

ITEM	DATE
1. AGENCY REVIEW	08-03-2022
2. AGENCY APPROVAL	09-29-2022
3. AGENCY APPROVAL	10-06-2022
4. AGENCY APPROVAL	11-16-2022
5.
6.
7.
8.
9.
10.
11.
12.

REVISIONS

ITEM	DATE
1.
2.
3.
4.
5.
6.

SHEET TITLE

DETAILS

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

C21

GENERAL NOTES:

SECTION 10000 - CONSTRUCTION MATERIALS AND METHODS NOT SHOWN ON THIS DRAWING SHALL BE IDENTICAL TO THE SPECIFICATIONS AND REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE LOCAL ORDINANCES.

TRACKING PAD SHALL BE INSTALLED IN ALL EXPOSED AREAS SHALL BE INSTALLED ON UNDISTURBED MATERIALS.

TRACKING PAD TO BE INSTALLED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EXPOSED POINT.

EXPOSED TRACKING PAD SHALL BE PROTECTED FROM DAMAGE. TRACKING PAD FILLINGS SHALL BE REMOVED AND LAYER OF COMBUSTIBLE COVERED UNDER THE TRACKING PAD.

COLLECT PIPE OR DRAIN PIPE USED TO DRAIN WATER FROM AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

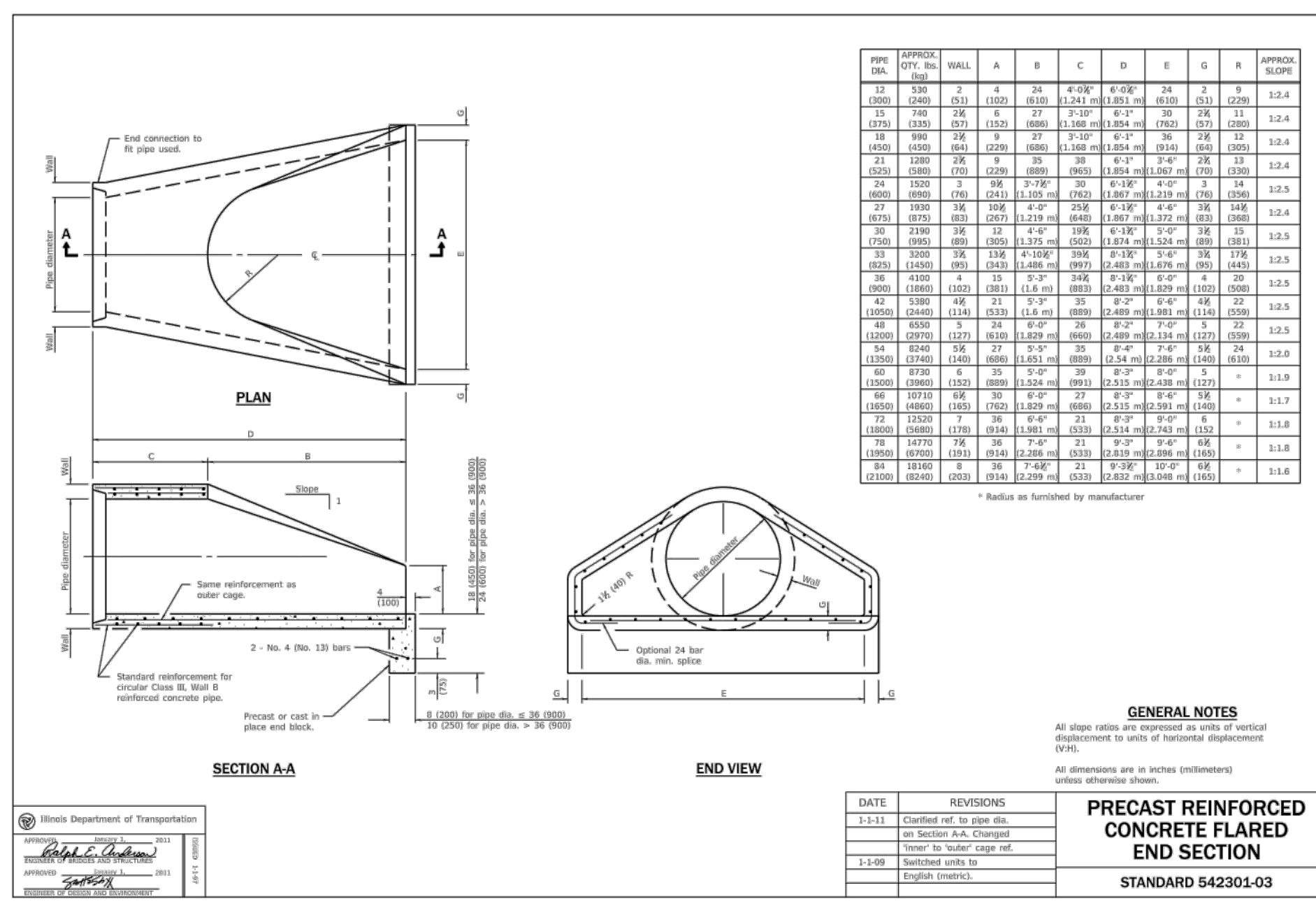
THE EDGE OF ADDITIONAL PAD TO DRAIN WATER BE NECESSARY, TO THE TRACKING PAD BE 10 FEET.

PLAN VIEW

SECTION A-A

SECTION B-B

TRACKING PAD



PLAN

24.00 MIN. 36.00 MIN.

36.00 MIN.

BROOM FINISH

MIN. 5.5x5.5 EXPANSION ANCHOR BOLT

4.00 2.00

CBU OUTLINE

1.00 1.00

SECTION

CBU PEDESTAL

5.31 5.00 MIN.

6X 4.00 MIN.

2.00

4.00 MIN.

6X 4.00 8.00 MIN.

BUILT-UP RUBBER PAD (WITH METAL PEDESTAL ONLY)

MATCH EXISTING GRADE IN PAVED AREAS

SLOPE SURFACE .25 INCH PER FOOT ON ALL SIDES FOR DRAINAGE

4 ROADS ON 14.00 CENTERS MAXIMUM EA. WAY

OPTIONAL COMPACT GRAVEL OR CRUSHED STONE (omit where solid rock occurs)

8.00 MIN.

MAX. FROST DEPTH

FINN UNDISTURBED SOIL OR WELL COMPACTED SOIL

NOTES:

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50-4.50 SLUMP IN ACCORDANCE WITH MD 101.
- REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
- EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
 - HILTI KWIK-BOLT® (www.us.hilti.com) 1-1/2" DIAMETER x 5-1/2" OVERALL LENGTH, CATALOG # 000-453-696
 - KB 12-512, STAINLESS STEEL, CATALOG # 020-656-744
 ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3-1/2".
- ITW RAMJET REDHEAD TRUSTLOK® (www.ramjet-redhead.com) GALVANIZED, 1/2" DIAMETER x 7" OVERALL LENGTH, CATALOG NUMBER WS-12700. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4-1/8".
- PAWL STUD (www.pawl.com) GALVANIZED, 1/2" DIAMETER x 5-1/2" OVERALL LENGTH, CATALOG NUMBER 7724. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4".

Details

CLUSTER BOX UNIT (CBU) INSTALLATION - SINGLE UNIT

CAD File: [./use/library/details/Ct-2-0e](#)

Scale: 1' = 1'-0"

UOPS SBL Issued: 10/1/2018
Last Revised: 10/27/2019

Doc. Ch. Sect. Para. Detail

G1 - 2 - 0(e)

FRONT VIEW

6" CLASS SI CONCRETE SLAB NO. 5 REINFORCEMENT BARS IN TOP ONLY AT 8" CTS

6'-0"

6'-0"

TOP OF CURB

1" PREFORMED EXPANSION JOINT FILLER

1 1/4" DOWELL BAR

4 1/2"

NO. 2 4'-0" NO. 1 6'-0"

FLOW OF GUTTER

6" CLASS SI CONCRETE FLOOR

NO. 4 BARS AT 12" CTS

3" SAND CUSHION

SECTION A-A

6" CLASS SI CONCRETE SLAB NO. 5 REINFORCEMENT BARS IN TOP ONLY

SLOPE TOP SLAB TO MATCH FINAL CONDITIONS

RIM ELEVATION

CURB AND GUTTER

E.P. (EDGE OF PAVEMENT) ELEVATION

4 1/2" OPENING

WEIR ELEV. 4'-0"

6"

POUR ADJUSTMENT WITH GUTTER

FACE OF CURB IN LINE WITH BACK OF CURB OPTIONAL CONSTRUCTION JOINT

INVERT ELEVATION

* THE WALL ADJUSTMENT SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS

TOP VIEW

30"

24"

3 1/2"

22"

23 3/4"

3/4"

BACK OF CURB

SHAPE FACE OF CURB TO MATCH INSIDE OF INLET

E.P. (EDGE OF PAVEMENT) ELEVATION

LID TO MATCH FACE OF CURB

**

NOTES

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLET SPECIAL NO. 3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 3 SHALL INCLUDE THE COST OF REINFORCEMENT BARS, FLOOR AND TOP SLABS, FURNISHING AND INSTALLING THE FRAME, LID, THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FT. ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

** WHEN INLET IS CONSTRUCTED IN RETURN THE TOP OF THE SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

LIGHT WEIGHT MANHOLE CASTING

30"

24"

3 1/2"

22"

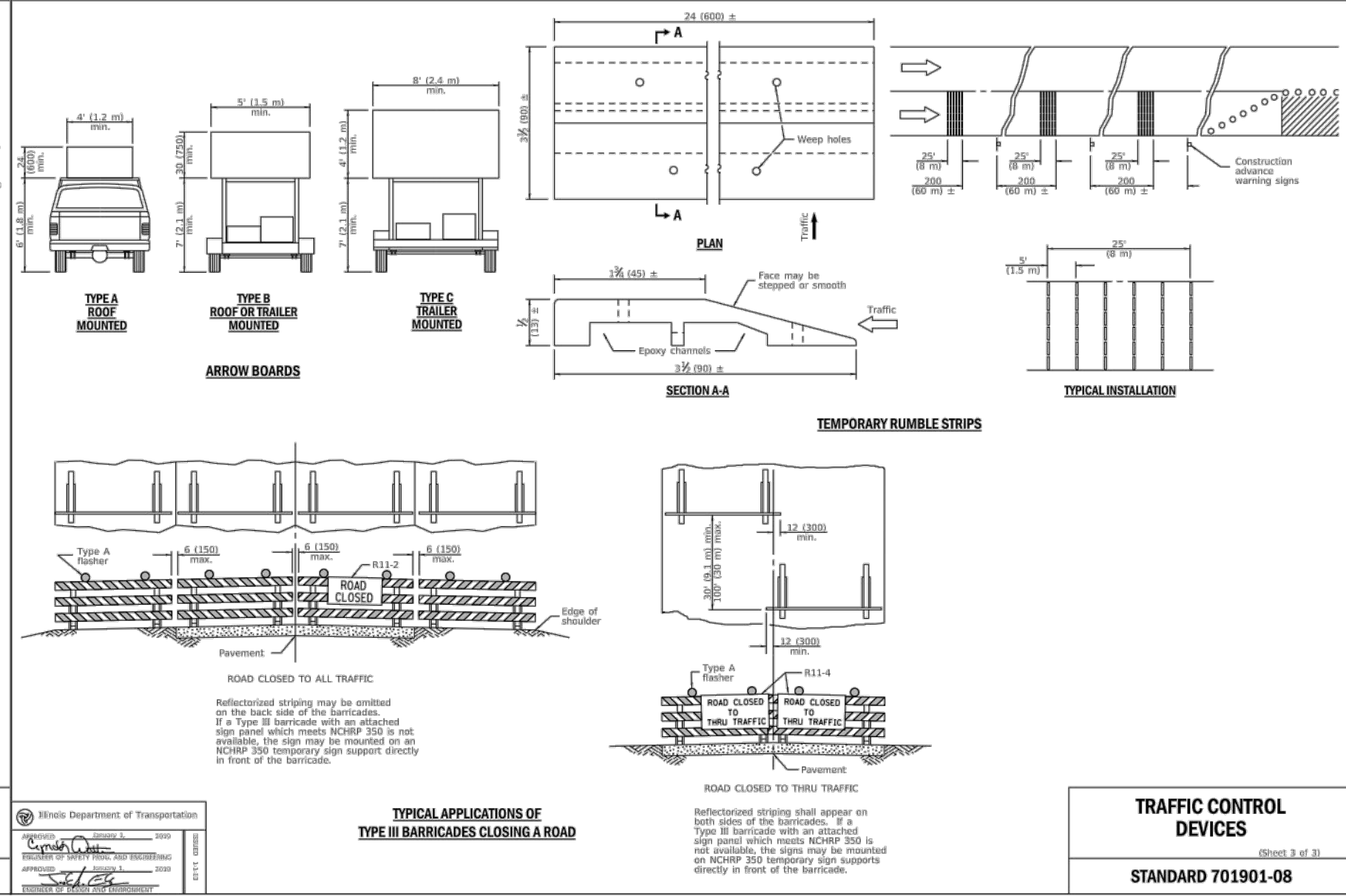
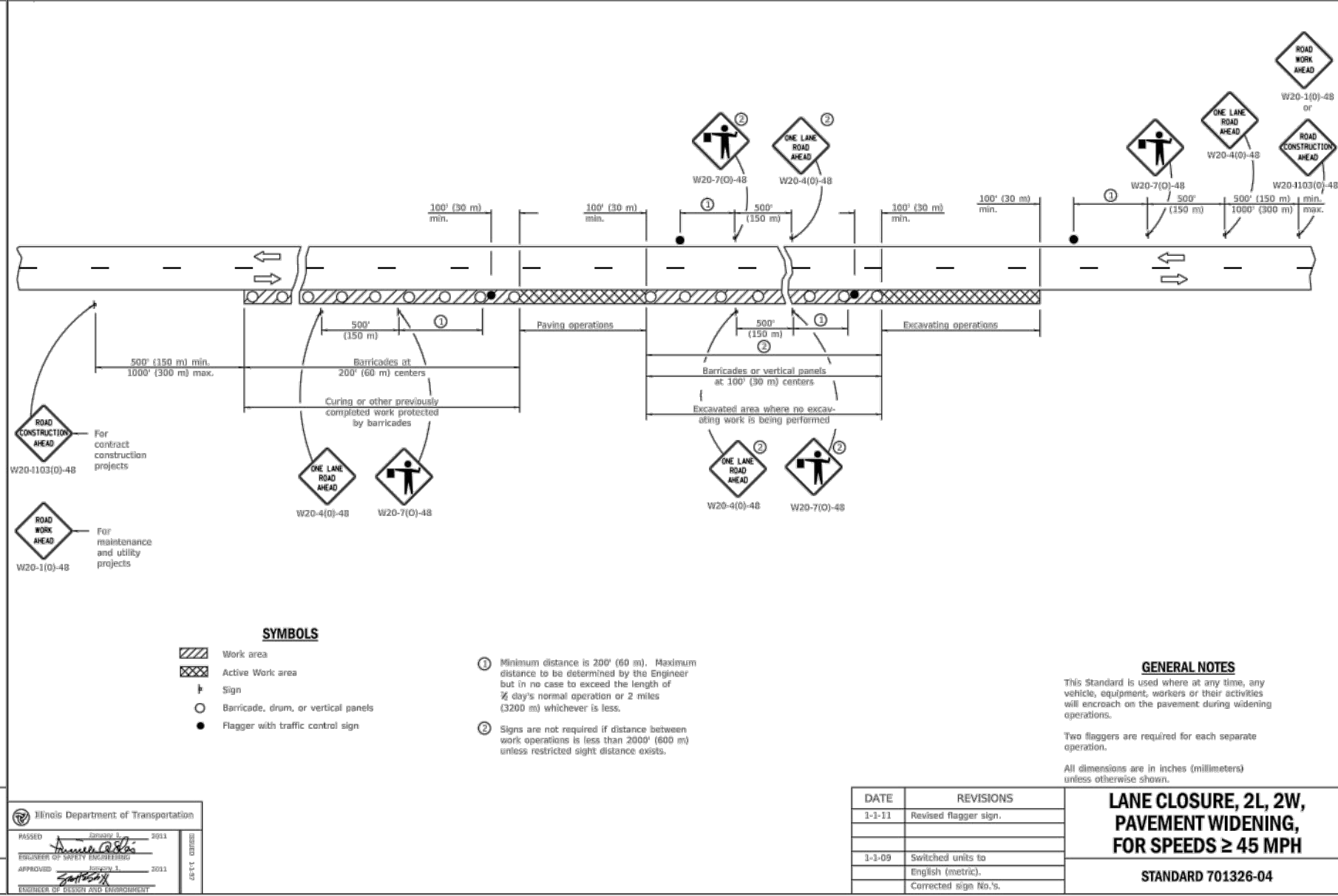
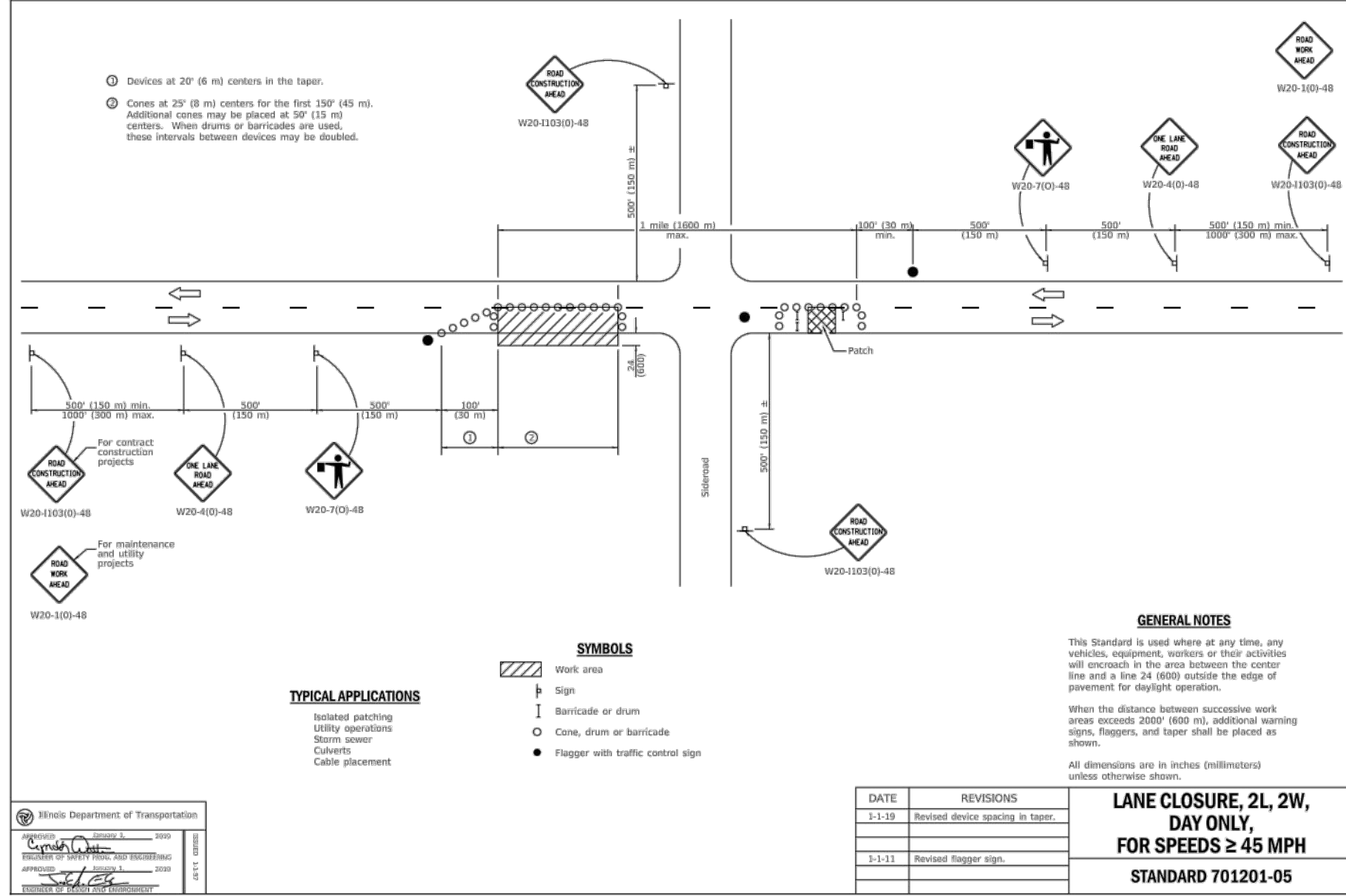
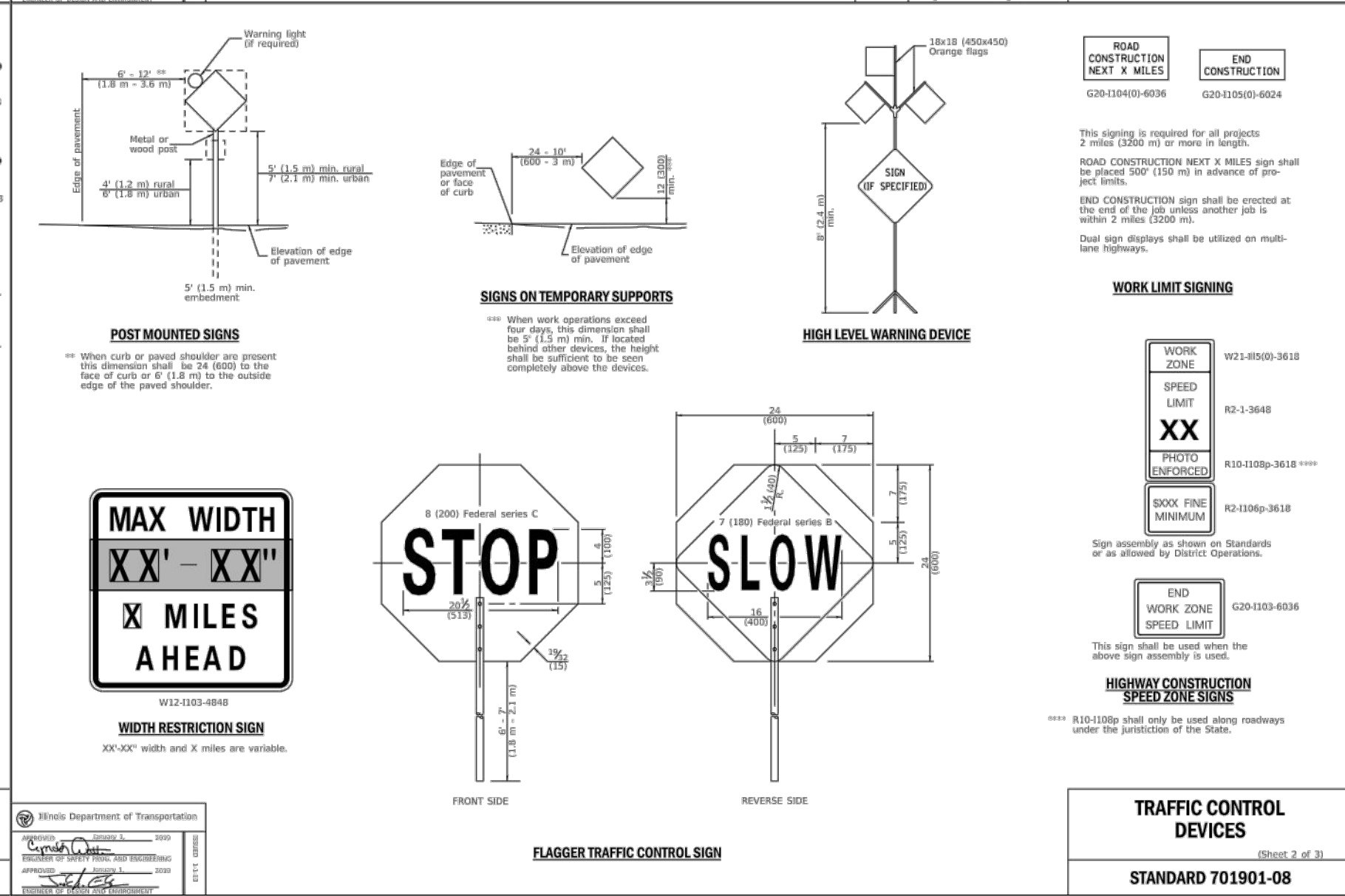
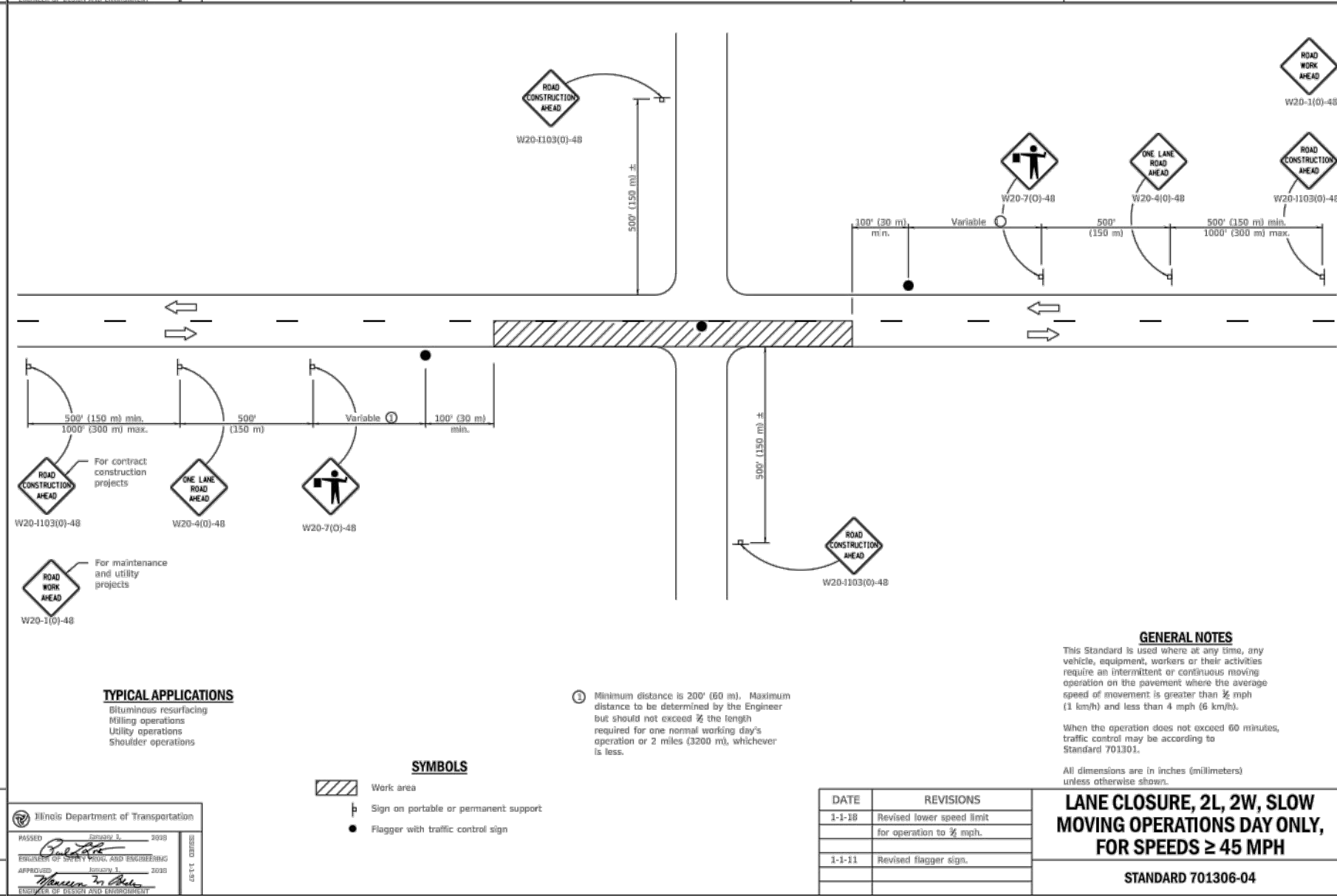
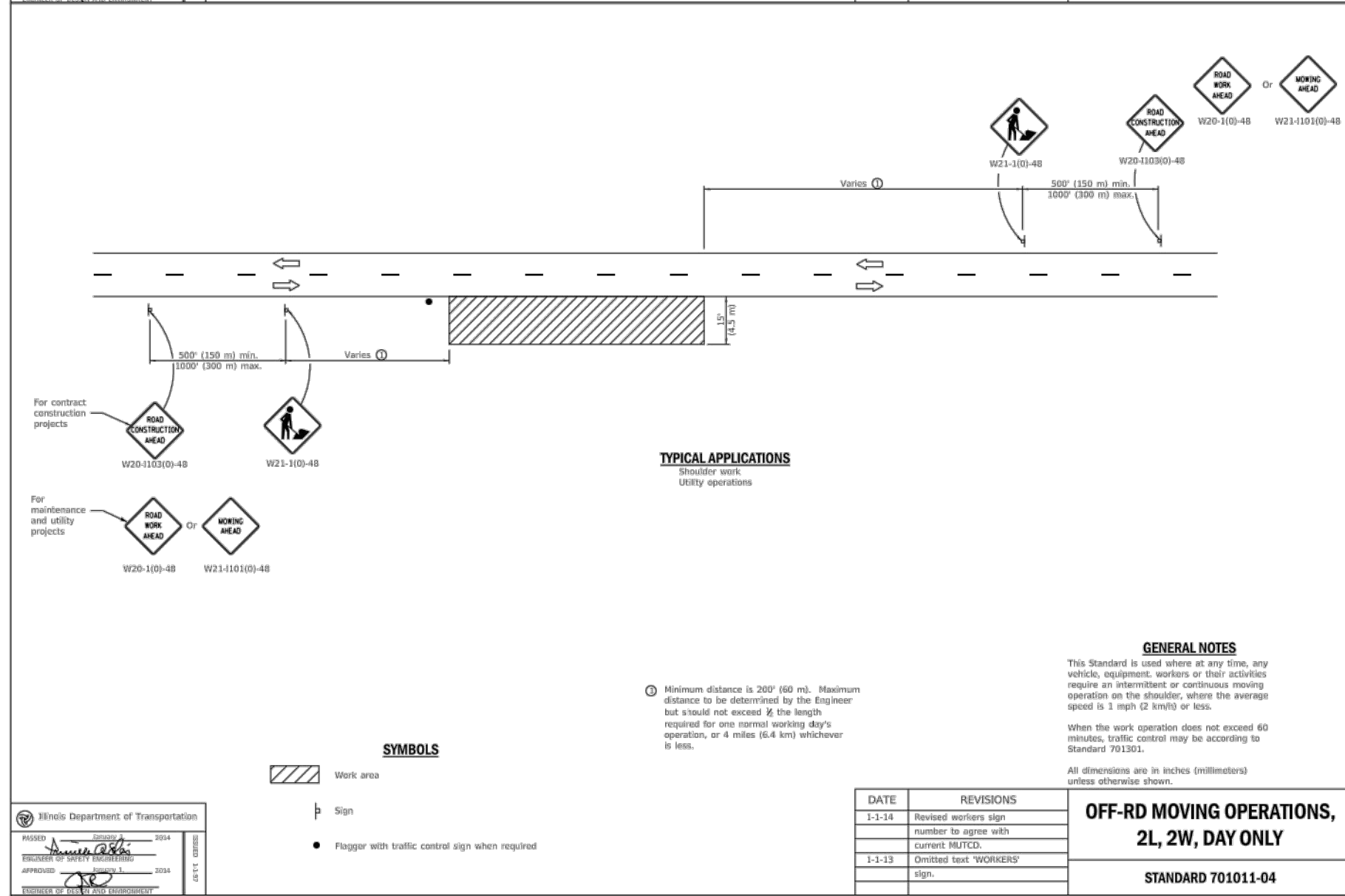
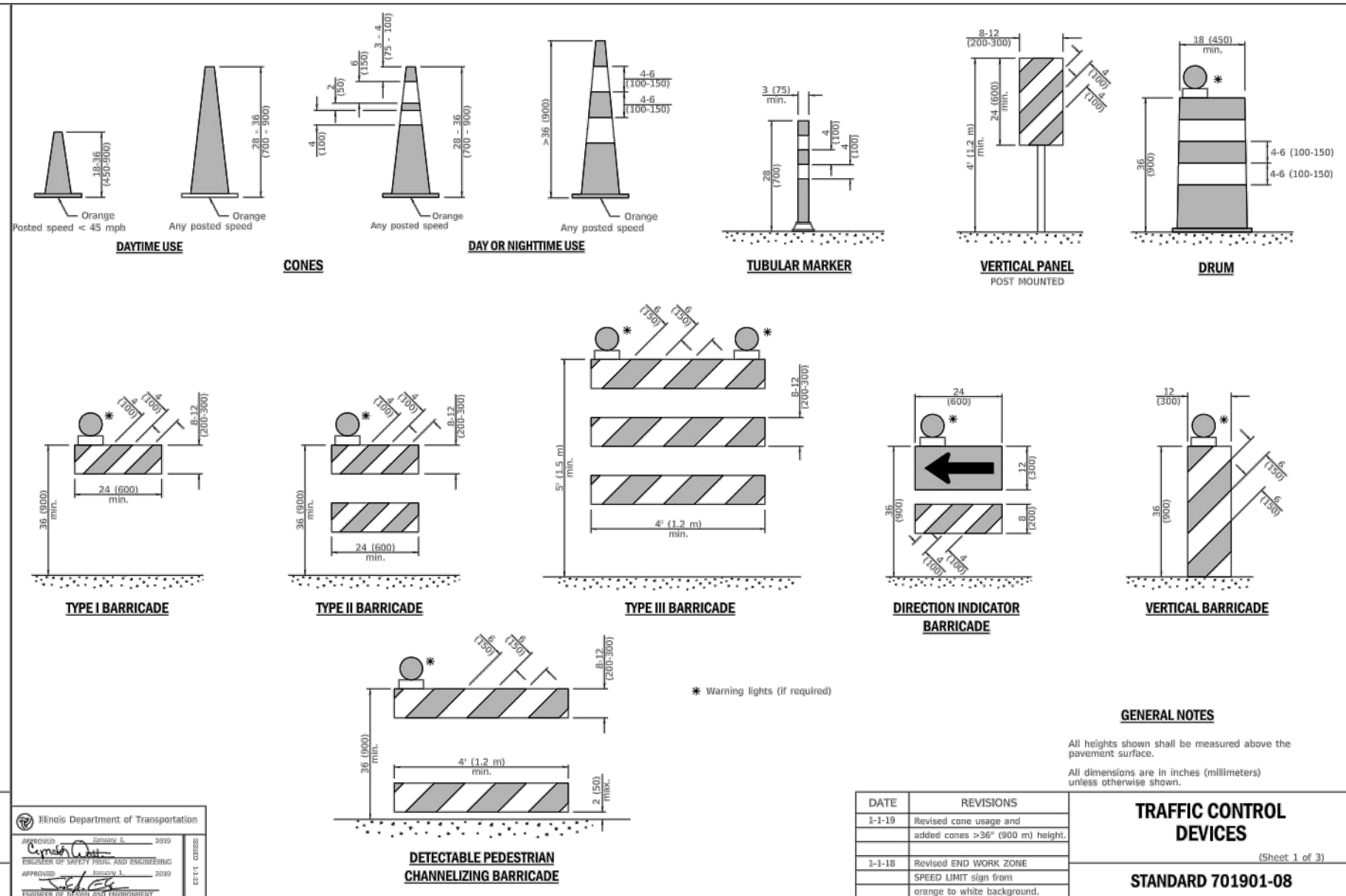
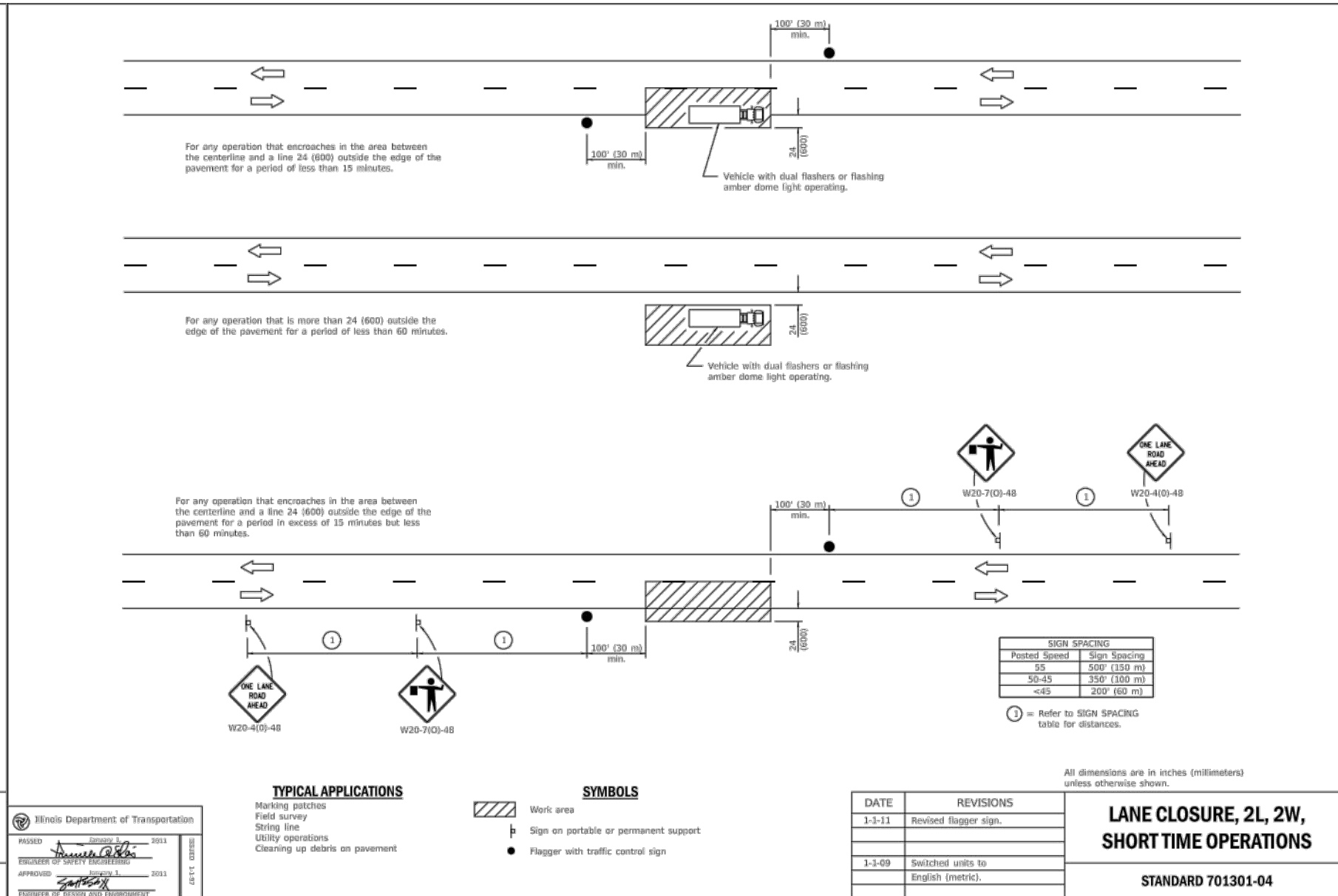
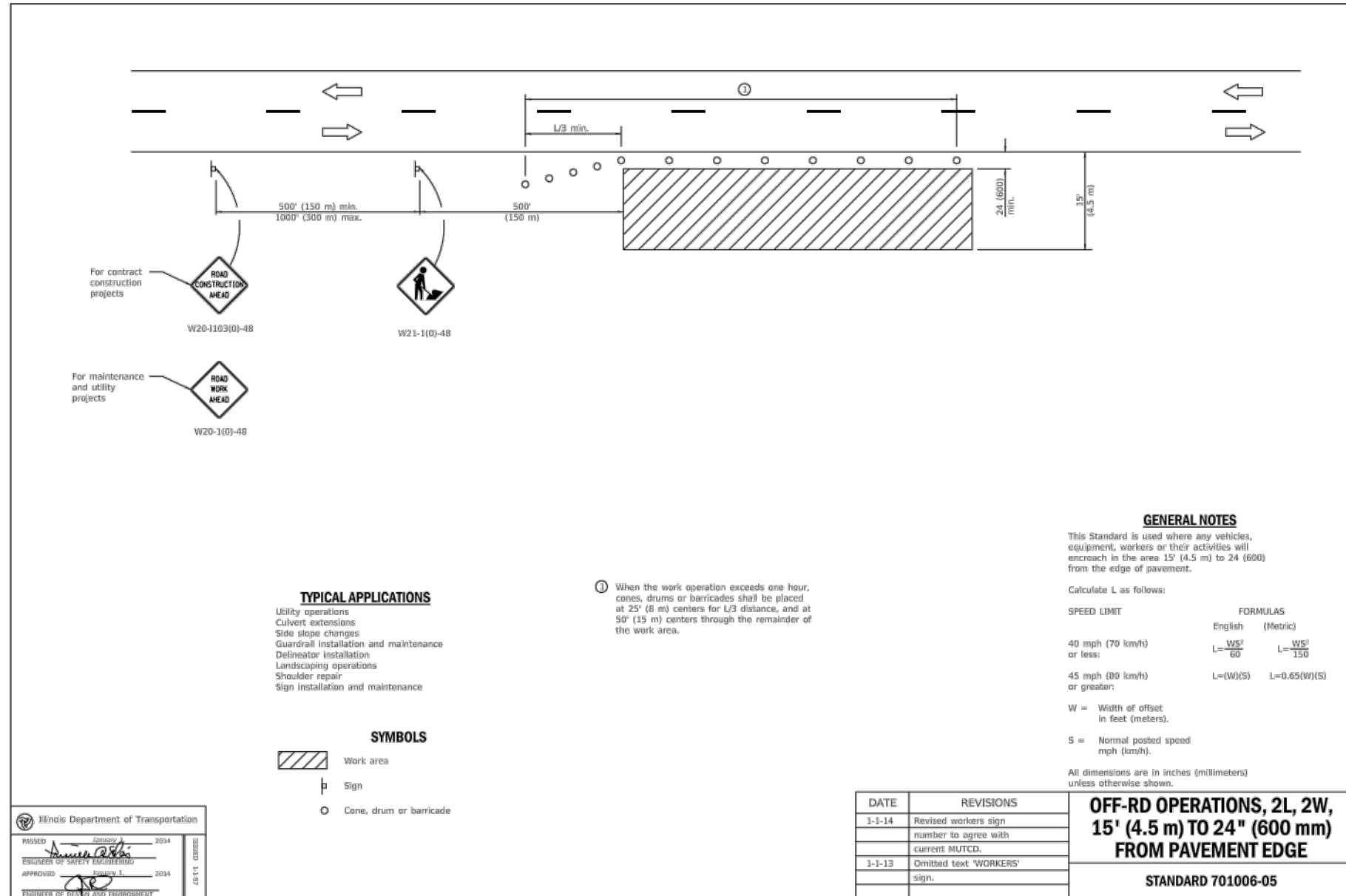
23 3/4"

3/4"

TOTAL WEIGHT 160 LBS.

The diagram illustrates a trench cross-section with the following layers and dimensions from top to bottom:

- GROUND SURFACE**: The top edge of the trench.
- MAXIMUM EXCAVATED TRENCH WIDTH**: The widest part of the trench.
- PIPE O.D. + 24" MAX**: The width of the trench at the pipe level.
- "O.D."**: The diameter of the pipe.
- FINAL BACKFILL**: The layer immediately surrounding the pipe, labeled "USE SUITABLE TRENCH BACKFILL MATERIAL WHEN UNDER PAVEMENT".
- INITIAL BACKFILL**: The layer below the final backfill, labeled "12" + 1/2 D".
- HAUNCHING**: The layer below the initial backfill, labeled "1/2 'D'".
- BEDDING**: The bottom layer, labeled "4" MIN."
- SPRINGLINE**: The bottom edge of the trench.



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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

1. AGENCY REVIEW	DATE
2. AGENCY APPROVAL	08-03-2022
3. AGENCY APPROVAL	09-29-2022
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5.
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REVISIONS

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SHEET TITLE

DETAILS

DRAWN MJH
CHECKED JSL
PM JSL

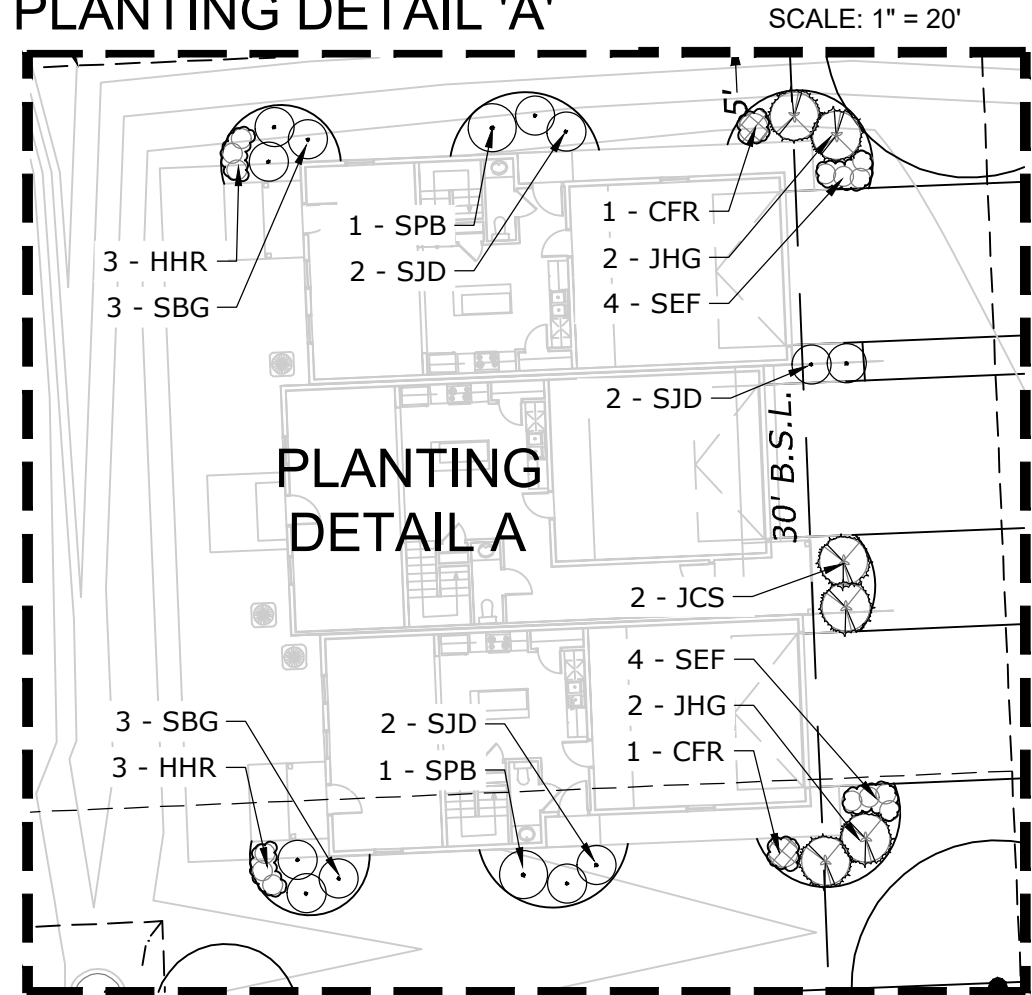
PROJECT NUMBER
SHEET NUMBER

22012

C23

TYPICAL BUILDING PLANTING DETAILS

PLANTING DETAIL 'A'

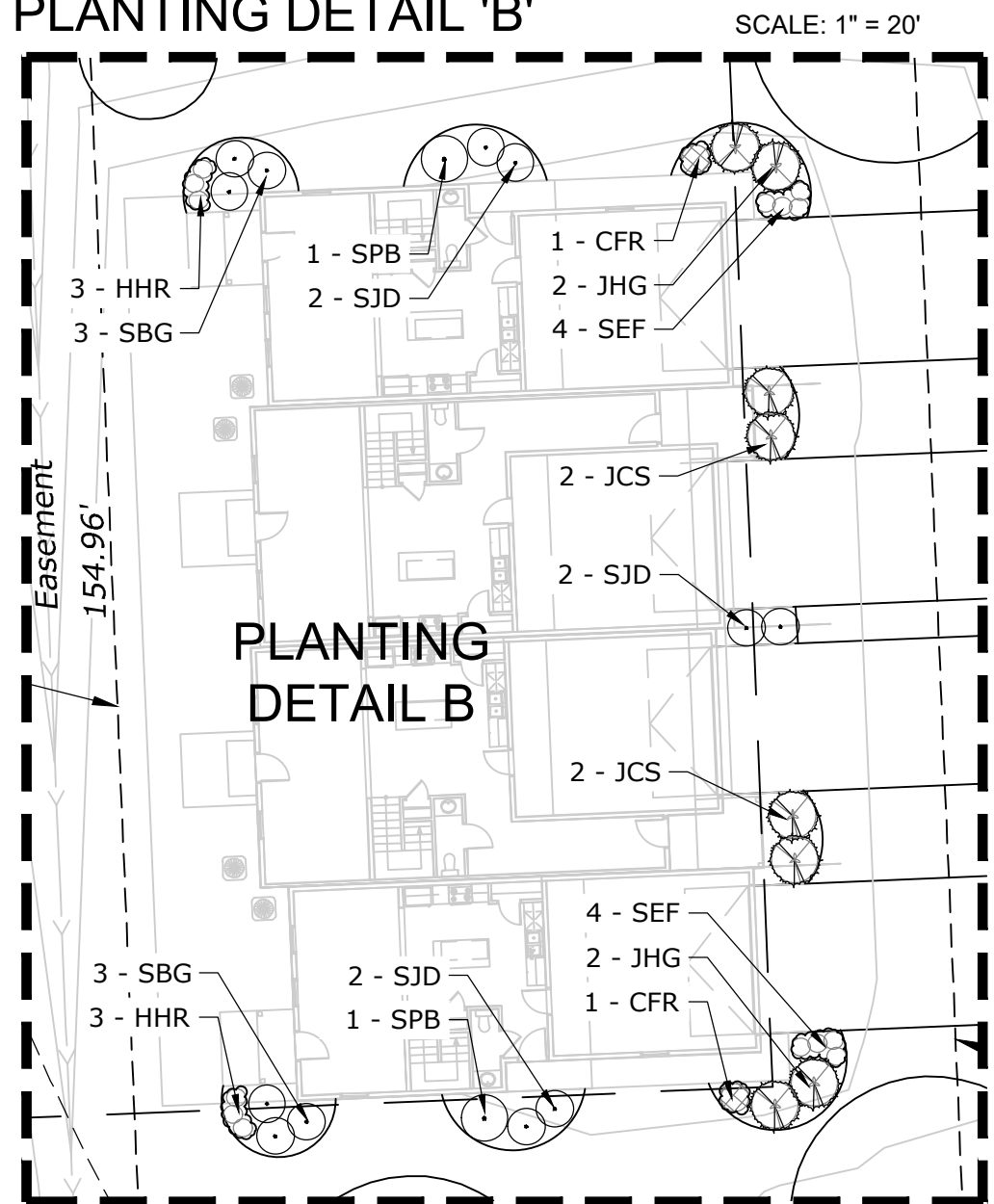


PLANT LIST - PLANTING DETAIL 'A'

OCCURS 3 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JCS	2	Juniperus chinensis x sargentii 'Viridis' GREEN SARGENT JUNIPER	5 GAL	EVERGREEN
JHG	4	Juniperus horizontalis 'Hagedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	6	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24" / 5 GAL	
SJD	6	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
CFR	2	Calamagrostis acutiflora 'Karl Forster' FEATHER REED GRASS	GAL	3'-0" O.C. - ORN. GRASS
HHR	6	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	8	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

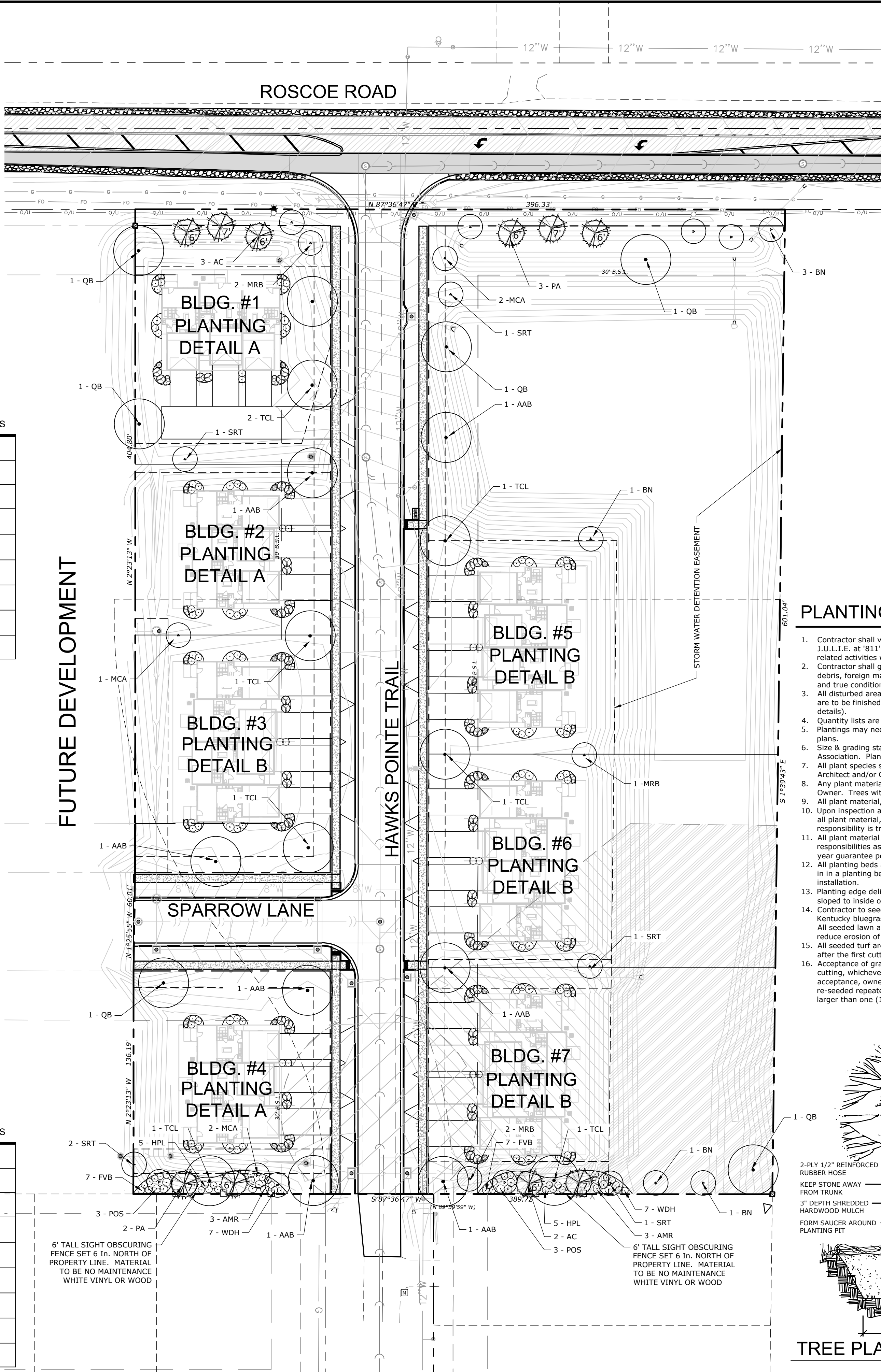
PLANTING DETAIL 'B'



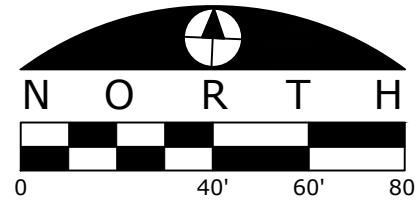
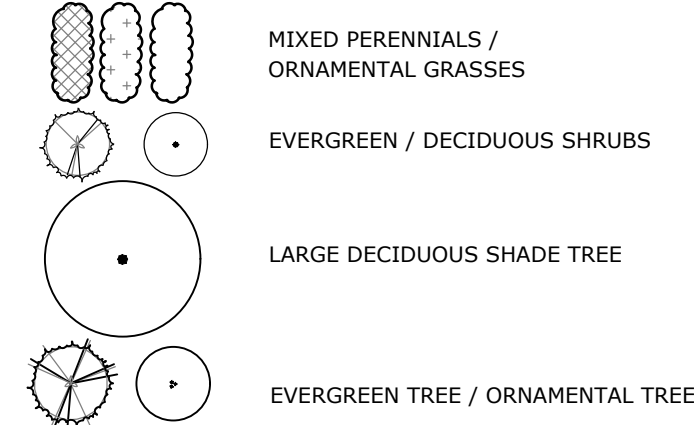
PLANT LIST - PLANTING DETAIL 'B'

OCCURS 4 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JCS	4	Juniperus chinensis x sargentii 'Viridis' GREEN SARGENT JUNIPER	5 GAL	EVERGREEN
JHG	4	Juniperus horizontalis 'Hagedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	6	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24" / 5 GAL	
SJD	6	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
CFR	2	Calamagrostis acutiflora 'Karl Forster' FEATHER REED GRASS	GAL	3'-0" O.C. - ORN. GRASS
HHR	6	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	8	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL



LEGEND

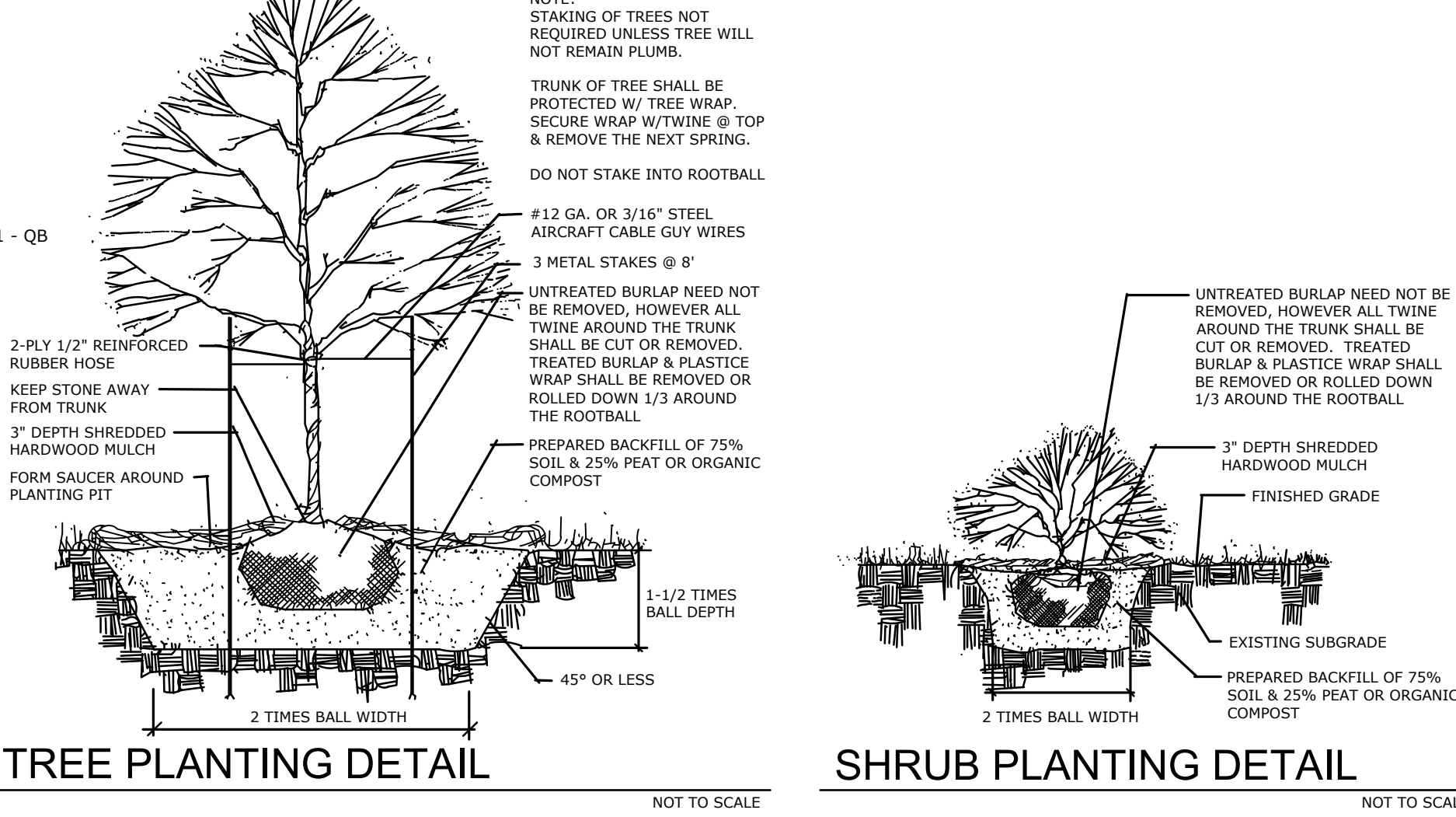


PLANT LIST - SITE TREES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
AAB	7	Acer freemanii 'Autumn Blaze' AUTUMN BLAZE MAPLE	2.5"	HYBRID RED MAPLE
AC	4 / 3	Abies concolor WHITE FIR	6' / 7'	EVERGREEN
BN	6	Betula nigra RIVER BIRCH	7"	MULTISTEM
MCA	5	Malus x 'Adirondack' ADIRONDACK CRABAPPLE	7"	MULTISTEM, UPRIGHT ORNAMENTAL
MRB	5	Malus x 'Red Baron' RED BARBON CRABAPPLE	7"	MULTISTEM, UPRIGHT ORNAMENTAL
PA	4 / 3	Picea abies NORWAY SPRUCE	6' / 7'	EVERGREEN
QB	6	Quercus bicolor SWAMP WHITE OAK	2.5"	
TCL	8	Tilia cordata LITTLE LEAF LINDEN	2.5"	
SRT	6	Syringa reticulata JAPANESE TREE LILAC	7"	MULTISTEM
AMR	6	Aronia melanocarpa RED CHOKEBERRY	30"	DECIDUOUS SHRUB
FVB	14	Forsythia viridissima 'Bronxensis' DWARF FORSYTHIA	18"	DECIDUOUS SHRUB
HPL	10	Hydrangea paniculata 'Limelight Prime' LIMELIGHT PRIME HYDRANGEA	24"	DECIDUOUS SHRUB
POS	6	Physocarpus opulifolia 'Summer Wine' SUMMER WINE PHYSOCARPUS	30"	DECIDUOUS SHRUB
WDH	14	Weigela x 'Dark Horse' DARK HORSE WEIGELA	18"	DECIDUOUS SHRUB

PLANTING NOTES

- Contractor shall verify locations of all underground utilities prior to beginning construction on his phase of work. Electric, gas, telephone, and cable television can be located by calling J.U.L.I.E. at '811'. For regional locating, contact "Digger's Hotline". Any damage or interruption of services shall be the responsibility of the contractor. Contractor to coordinate all related activities with other trades on the job and shall report any unacceptable job conditions to owner's representative prior to commencing work.
- Contractor shall grade entire site to correct surface irregularities in preparation for sod/seed. Roto-til, disc, drag, harrow or hand rake sub grade in all lawn areas and remove construction debris, foreign matter or stones larger than 2". Grading shall provide slopes which are smooth, continuous, free from depressions or ridges. Level, rake and roll as necessary to an even and true condition and obtain positive drainage in all areas. Finish grades shall meet the approval of owner prior to lawn installation.
- All disturbed areas should be brought to grade with "topsoil" to a depth of 6 inches in areas to be seeded or sodded, and 12 inches for all interior (curbed) landscape islands. All lawn areas are to be finished with mulch, straw mulch, seed, sod, etc. or as noted. All lawn areas to be watered until a healthy stand of grass is established. (See seed/sod notes for acceptance details).
- Quantity lists are supplied as a convenience; however, the contractor should verify all quantities. The drawings shall take precedence over the lists.
- Plantings may need to be adjusted in the field to accommodate utilities, easements, drainage ways, downspouts, etc.; however, quantities and sizes shall remain consistent with these plans.
- Size & grading standards of plant material shall conform to the latest addition of ANSI Z60.1 AMERICAN STANDARD OF NURSERY STOCK, by the American Nursery & Landscape Association. Plant material shall be nursery grown and be either balled and burlap or container grown.
- All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Landscape Architect and/or Owner.
- Any plant materials with damaged or crooked/disfigured leaders, bark abrasion, sun scald, insect damage, etc. are not acceptable and will be rejected by Landscape Architect and/or Owner. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump.
- All plant material, especially trees, must be sourced within a fifty (100) mile radius of the subject property or construction site.
- Upon inspection and acceptance of all landscape items by Landscape Architect and/or Owner the contractor shall assume maintenance responsibilities for a period of thirty (30) days, for all plant material, to include: watering, cultivating, weeding, pruning, mulching and spraying as necessary to keep plants free of insects and in a healthy, vigorous condition until responsibility is transferred to the owner (see below).
- All plant material shall be guaranteed for one (1) year after acceptance by landscape architect and/or owner. After the first thirty (30) days, the owner shall assume maintenance responsibilities as described (see above). Contractor shall replace without cost to owner any dead or unacceptable plants, as determined by the landscape architect at the end of one (1) year guarantee period. Contractor shall notify immediately, in writing, any concerns related to maintenance practices.
- All planting beds and tree saucers shall be mulched continuous with 3" depth shredded hardwood mulch, see planting details. All deciduous trees (shade / ornamental) that are not located in in a planting bed shall be mulched with a 3'-0" diameter circle. Evergreen trees and multi-stemmed ornamental trees shall be mulched to outer-most branches at the time of installation.
- Planting edge delineation at all planting bed lines and tree saucers shall require a minimum 4" depth "vee" shaped cultivated, spaded edge with a vertical face abutting all lawn areas and sloped to inside of plant bed continuous between lawn and mulched areas as indicated on plan.
- Contractor to seed all disturbed lawn areas. Seeded lawn to be a combination of bluegrass, perennial rye and red fescue with the suggested following analysis by weight: 30% rugby Kentucky bluegrass, 20% park Kentucky bluegrass, 20% creeping red fescue, 20% scalds hard fescue, and 10% perennial ryegrass. Seed to be applied at a rate of 4 lbs. per 1,000 s.f.. All seeded lawn areas shall be covered with straw mulch or erosion control netting, consisting of hand or machine application at a rate of 2 ton per acre. Mulch shall be compact enough to reduce erosion of seed and topsoil but loose enough to allow air to circulate. Install per Method 1, Section 251, of the Standard Specifications for Road and Bridge Construction.
- All seeded turf areas shall be fertilized at installation with 5-20-20 analysis, at a rate of 6 lbs. per 1,000 s.f.. A second application of 21-7-14 to be applied at rate of 6 lbs. per 1,000 s.f. after the first cutting. Acceptance and guarantee notes shall apply to all seeded areas.
- Acceptance of grading and seed shall be by landscape architect and/or owner. Contractor shall assume maintenance responsibilities for a minimum of sixty (60) days or until second cutting, whichever is longer. Maintenance shall include watering, weeding, re-seeding (wash-offs) and other operations necessary to keep lawn in a thriving condition. Upon final acceptance, owner shall assume all maintenance responsibilities. After lawn areas have germinated, areas which fail to show a uniform stand of grass for any reason whatsoever shall be re-seeded repeatedly until all areas are covered with a satisfactory stand of grass. Minimum acceptance of seeded lawn areas may include scattered bare or dead spots, none of which are larger than one (1) square foot and when combined do not exceed 2% of total lawn area.



ARC

DESIGN

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 5

HAWKS POINTE TRAIL
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR

1. AGENCY REVIEW	08-03-2022
2. AGENCY REVIEW	11-09-2022
3. AGENCY APPROVAL	10-06-2022
4. AGENCY APPROVAL	11-16-2022
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REVISIONS	DATE
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SHEET TITLE

LANDSCAPE PLAN

DRAWN MJH
CHECKED JSL
PM JSL

PROJECT NUMBER
SHEET NUMBER

22012

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