

**SPECIFICATIONS**  
**FOR**  
**GALENA RIVER CANOE AND KAYAK LAUNCH**

CITY OF GALENA  
101 GREEN STREET  
GALENA, IL 61036

**MARCH 2019**

**NOTE: Contractor must provide a written statement describing how the ramp will be installed.**

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**ADVERTISEMENT FOR BIDS**

**PROJECT:** **GALENA RIVER CANOE AND KAYAK LAUNCH**

**BID DATE:** **Tuesday 16 April 2019**

**BID TIME:** **10:00 A.M.**

**BIDS RECEIVED BY OWNER:** City of Galena  
101 Green Street, Galena, IL 61036

**BID OPENING:** Sealed bids will be publicly opened and read at City Hall,  
101 Green Street, Galena, Illinois.

**PROJECT DESCRIPTION:** Construction of canoe and kayak landing ramp, stairs, sidewalk, hand rail, parking lot improvements and associated landscaping.

**DOCUMENTS:** Plans, specifications, and bid forms may be obtained and inspected at the City of Galena, 101 Green Street, Galena, IL 61036. They are also available at [www.cityofgalena.org](http://www.cityofgalena.org) under Departments/Engineering/Bid Documents. All contractors who intend to bid the project, must inform the city engineer if they download bid documents so any addenda can be issued.

**CONDITIONS:** Bids will be on a total sum basis, segregated bids are not acceptable. Contractors for work under this Bid will obligate Contractor and subcontractors not to discriminate in employment practices. This project is being financed with funds from Illinois Department of Natural Resources "Boat Access Area Development" (BAAD) grant program. The city shall encourage "minority" business firms to submit bids on the approved project and also successful contract bidders to utilize minority businesses as sub-contractors for supplies, equipment, services and construction.

**BID SECURITY:** All bids must be accompanied by a bank draft, cashier's check, certified check, or bid bond payable to the City of Galena for 10 percent of the total amount of the bid.

**PREVAILING WAGE:** All work done under this contract is subject to all requirements of the Department of Labor, State of Illinois, and must pay the prevailing wage rate as determined by the Department of Labor and the Owner.

**DRUG FREE WORK PLACE** Contractors must comply with the Drug Free Workplace Act (Source: P.A. 86-1459).

This invitation is given and published pursuant to authorization and direction of the City of Galena. The City of Galena reserves the right to reject any or all Bids or to waive any informalities in the bidding.

By Order of City of Galena, Illinois  
Terry Renner, Honorable Mayor

## **INSTRUCTIONS TO BIDDERS**

### **1. Defined Terms**

Terms used in these Instructions to Bidders, which are defined in the standard General Conditions of the Construction Contract, have the meanings assigned to them in the General Conditions. The term "Bidder" means one who submits a Bid directly to the OWNER, as distinct from a sub-bidder, who submits a bid to a Bidder. The term "Successful Bidder" means the lowest, qualified, responsible, and responsive Bidder to whom OWNER (on the basis of OWNER'S evaluation as hereinafter provided) makes an award. The term "Bidding Documents" includes the Advertisement or Invitation to Bid, Instructions to Bidders, the Bid Form, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

### **2. Copies of Bidding Documents**

2.1 Complete sets of the Bidding Documents in the number and for the deposit sum, if any, stated in the Advertisement or Invitation to Bid may be obtained from the ENGINEER. The deposit will be refunded to document holders of record who return the Bidding Documents in good condition within thirty days after opening of Bids as stipulated by the Invitation to Bid.

2.2 Complete sets of Bidding Documents must be used in preparing Bids; neither OWNER nor ENGINEER assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.3 OWNER and ENGINEER in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids on the Work and do not confer a license or grant for any other use.

### **3. Qualifications of Bidders**

To demonstrate qualifications to perform the Work, each Bidder must be prepared to submit within five days of OWNER'S request written evidence, such as financial data, previous experience, present commitments and other such data as may be called for below or in the supplementary Instructions. Each Bid must contain evidence of Bidder's qualifications to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the contract.

### **4. Examination of Contract Documents and Site**

4.1 It is the responsibility of each Bidder before submitting a Bid, to (a) examine the Contract Documents thoroughly, (b) visit the site to become familiar with local conditions that may affect cost, progress, performance, or federal, state, and local Laws and Regulations that may affect cost, progress, performance, or furnishing of the Work, (c) study and carefully correlate Bidder's observations with the Contract Documents, and (d) notify ENGINEER of all conflicts, errors, or discrepancies in the Contract Documents.

4.2 Reference is made to the supplementary conditions for identification of:

4.2.1. Those reports of exploration and tests of subsurface conditions at the site which have been utilized by ENGINEER in preparation of the Contract Documents. Bidder may rely upon the accuracy of the technical data contained in such reports but not upon non-technical data, interpretations, or opinions contained therein or for the completeness thereof for the purpose of bidding or construction.

4.2.2. Those drawings of physical conditions in or relating to existing surface and subsurface conditions (except underground Facilities) which are at or contiguous to the site which have been utilized by ENGINEER in preparation of the Contract Documents. Bidder may rely upon the accuracy of the technical data contained in such drawings but not upon the completeness thereof for the purposes of bidding or construction.

OWNER will make copies of such reports and drawings available to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the technical data contained therein upon which Bidder is entitled to rely as provided in paragraphs 4.2.1 and 4.2.2 are incorporated therein by reference. Such technical data has been identified and established in the Supplementary Conditions.

4.3 Information and data reflected in the Contract Documents with respect to Underground Facilities at or contiguous to the site is based upon information and data furnished to OWNER and ENGINEER by owners of such Underground Facilities, and OWNER does not assume responsibility for the accuracy or completeness thereof unless it is expressly provided otherwise in the Supplementary Conditions.

4.4 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on subsurface conditions, Underground Facilities and other physical conditions, and possible changes in the Contract Documents due to differing conditions appear in paragraph 4.2 and 4.3 of the General Conditions.

4.5 Before submitting a Bid each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance, or furnishing of the Work and which Bidder deems necessary to determine its bid for performing and furnishing the Work in accordance with the time, price, and other terms and conditions of the Contract Documents.

4.6 On request in advance, OWNER will provide each Bidder access to the site to conduct such explorations and tests as each bidder deems necessary for submission of a Bid. Bidder shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.

4.7 The lands upon which the Work is to be performed, rights-of-way, and easements for access thereto and other lands designated for use by CONTRACTOR in performing the Work are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by CONTRACTOR. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by OWNER unless otherwise provided in the Contract Documents.

4.8 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, that without exception the Bid is premised upon performing and furnishing the Work required by the Contract Documents and such means, methods, techniques, sequences, or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

4.9 All enquiries and questions about the contract documents are to be made in writing, preferably by email, sent to Andy Lewis - City Engineer at: alewis@cityofgalena.org

## **5. Interpretations and Addenda**

5.1 All questions about the meaning or intent of the Contract Documents are to be directed to ENGINEER. Interpretations or clarifications considered necessary by ENGINEER in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by ENGINEER as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

5.2 Addenda may also be issued to modify the Bidding Documents as deemed advisable by OWNER or ENGINEER.

## **6. Bid Security**

Each Bid must be accompanied by Bid security made payable to OWNER in an amount of **ten percent** of the Bidder's maximum Bid price and in the form of a certified check or bank check or a Bid Bond (on form attached, if a form is prescribed) issued by a surety meeting the requirements of paragraph 5.1 of the General Conditions.

6.2 The Bid security of the successful Bidder will be retained until such Bidder has executed the Agreement and furnished the required contract security, whereupon the Bid security will be returned. If the successful Bidder fails to execute and deliver the Agreement and furnish the required contract security within fifteen days after the Notice of Award, OWNER may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security of other Bidders whom OWNER believes to have a reasonable chance of receiving the award may be retained by OWNER until the earlier of the seventh day after the Effective Date of the Agreement or the forty-sixth day after the Bid opening, whereupon Bid security furnished by such Bidders will be returned. Bid security with Bids, which are not competitive, will be returned within seven days after the Bid opening.

## **7. Contract Time**

The times for substantial Completion and final completion are set forth in the Agreement. It will be necessary for the successful Bidder to satisfy OWNER of Bidder's ability to achieve substantial completion and final completion within the times designated in the Agreement.

## **8. Liquidated Damages**

Provisions for liquidated damages, if any, are set forth in the Agreement.

## **9. Substitute or "Or-Equal" Items**

The Contract, if awarded, will be on the basis of materials and equipment described in the Drawings or specified in the specifications that a substitute or "or-equal" item of material or equipment may be furnished or used by CONTRACTOR if acceptable to ENGINEER, until after the Effective Date of the Agreement.

## **10. Subcontractors, Suppliers and Others**

10.1 If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, and other persons and organizations (including those who are to furnish the principal items of material and equipment) to be submitted to OWNER in advance of the specified date prior to the Effective Date of the Agreement, the apparent Successful Bidder, and any other Bidder so requested, shall within seven days after the Bid opening submit to OWNER a list of all such Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work for which such identification is required.

Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each Subcontractor, Supplier, person or organization if requested by OWNER. If OWNER after due investigation has reasonable objection to any proposed Subcontractor, Supplier, other person or organization, either may before the Notice of Award is given request the apparent Successful Bidder to submit an acceptable substitute without any change in Bid price.

If apparent Successful Bidder declines to make any such substitution, OWNER may award contract to the next lower Bidder that proposes to use acceptable Subcontractors, Suppliers, and other persons and organizations. The declining to make requested substitutions will not constitute grounds for sacrificing the Bid security of any Bidder. Any Subcontractor, Supplier, other person or organization listed and to whom OWNER does not make written objection prior to the giving of the Notice of Award will be deemed acceptable to OWNER subject to revocation of such acceptance after the Effective Date of the Agreement as provided in Paragraph 6.8.2 of the General Conditions.

10.2 In contracts where the Contract Price is on the basis of Cost-of-the-work Plus a Fee, the apparent Successful Bidder, prior to the Notice of Award, shall identify in writing to OWNER those portions of the Work that such Bidder proposes to subcontract and after the Notice of Award may only subcontract other portions of the Work with OWNER'S written consent.

10.3 No CONTRACTOR shall be required to employ any Subcontractor, Supplier, other person or organization against whom CONTRACTOR has reasonable objection.

## **11. Bid Form**

11.1 The Bid Form is included with the Bidding Documents; additional copies may be obtained from City of Galena.

11.2 All blanks on the Bid Form must be completed in ink or by a typewriter.

11.3 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

11.4 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

11.5 All names must be typed or printed below the signature.

11.6 The bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).

11.7 The address and telephone number for communications regarding the Bid must be shown.

## **12. Submission of Bids**

Bids shall be submitted at the time and place indicated in the Advertisement or Invitation to Bid and shall be enclosed in an opaque sealed envelope, marked with the Project title (and, if applicable, the designated portion of the project for which the Bid is submitted) and name and address of the Bidder and accompanied by the Bid security and other required documents. If the Bid is sent through the mail or other delivery system the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of it.

## **13. Modifications and Withdrawal of Bids**

13.1 Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids.

13.2 If, within twenty-four hours after Bids are opened, any Bidder files a duly signed, written notice with OWNER and promptly thereafter demonstrates to the reasonable satisfaction of OWNER that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid and the Bid security will be returned. Thereafter, that Bidder will be disqualified from further bidding on the Work to be provided under the Contract Documents.

## **14. Opening of Bids**

Bids will be opened and (unless obviously non-responsive) read aloud publicly. An abstract of the amounts of the base Bids and major alternates (if any) will be made available to Bidders after the opening of Bids.

## **15. Bids to Remain Subject to Acceptance**

All bids will remain subject to acceptance for forty-five days after the day of the Bid opening, but OWNER may, in its sole discretion, release any Bid and return the Bid security prior to that date.

## **16. Award of Contract**

16.1 OWNER reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder, and the right to disregard all non-conforming, non-responsive, unbalanced, or conditional Bids. Also, OWNER reserves the right to reject the Bid of any Bidder if OWNER believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by OWNER. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

16.2 In evaluating Bids, OWNER will consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.

16.3 OWNER may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work as to which the identity of Subcontractors, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. OWNER also may consider the operating costs, maintenance requirements, performance data, and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.

16.4 OWNER may conduct such investigations as OWNER deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, and other persons and organizations to perform and furnish the Work in accordance with the Contract Documents to OWNER'S satisfaction within the prescribed time.

16.5 If the contract is to be awarded, it will be awarded to the lowest Bidder whose evaluation by OWNER indicates to OWNER that the award will be in the best interests of the Project.

16.6 If the lowest Bid received exceeds the available funding, the OWNER reserves the right to negotiate the deduction of items necessary to meet funding limits with the lowest Bidder prior to award of contract.

16.7 If the contract is to be awarded, OWNER will give the Successful Bidder a Notice of Award within forty-five days after the day of the Bid opening.

## **17. Contract Security**

Paragraph 5.1 of the General Conditions and the Supplementary Conditions set forth OWNER'S requirements as to performance and payment bonds. When the Successful Bidder delivers the executed Agreement to OWNER, it must be accompanied by the required performance and payment Bonds.

**18. Signing of Agreement**

When OWNER gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement. Within fifteen days thereafter CONTRACTOR shall sign and deliver the required number of counterparts of the Agreement to OWNER with the required Bonds. Within ten days thereafter OWNER shall deliver one fully signed counterpart to CONTRACTOR.

**19. Sales and Use Taxes**

OWNER is exempt from Illinois State Sales and Use Taxes on materials and equipment to be incorporated in the Work (exemption No.E9996-1725-02). Said taxes shall not be included in the Contract Price. Refer to Supplementary Conditions SC-6.15 for additional information.

**20. Retainage**

Provisions concerning retainage and CONTRACTOR'S rights to deposit securities in lieu of retainage are set forth in the Agreement.

**21. Waivers of Lien**

CONTRACTORS shall hold OWNER safe and free from all claims and liens and shall deliver to the OWNER waivers of lien and CONTRACTOR'S affidavit, short form, embracing the labor and materials included in payments as requested by the Contractor.

**22. Prevailing Wage**

All work done under this Contract shall be subject to Illinois laws relating to Prevailing Wages and Illinois Preference to Citizens on Public Works and Arbitration. Burden for compliance with these laws rests with the contractor. Effective August 10, 2005 contractors and subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing records he or she knows to be false is a Class B misdemeanor. Refer also to Section 17 of General Requirements. Effective January 1, 2010, all contractors shall provide written notice to its subcontractors of their duty to comply with the prevailing wage rate. The contractor shall provide the City with verification of such notice.

**23. Drug Free Workplace**

All work done under this Contract must comply with the Drug Free Workplace Act (Source: P.A. 86-1459)

**24. IDNR Grant Requirements**

This project is being financed with funds from Illinois Department of Natural Resources "Open Spaces Lands Acquisition & Development" (OSLAD) grant program. The city shall encourage "minority" business firms to submit bids on the approved project and also successful contract bidders to utilize minority businesses as sub-contractors for supplies, equipment, services and construction.

**BID**

Project Identification: **GATEWAY PARK IMPROVEMENT PROJECT**

Contract Identification and Number: **NA**

This Bid is submitted to:

City of Galena  
101 Green Street  
Galena, IL 61036

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with owner in the form included in the Contract Documents to perform and furnish all work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to BIDDERS, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for forty-five days after the day of Bid opening. BIDDER WILL SIGN AND SUBMIT THE AGREEMENT with the Bonds and other documents required by the Bidding Requirements within fifteen days after the date of OWNER's Notice of Award.
3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement that;
  - a. BIDDER has examined copies of all the Bidding Documents and of the following Addenda (receipt of all which is hereby acknowledged):

Date	Number
_____	_____
  - b. BIDDER has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.
  - c. BIDDER has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions which are identified in the Supplementary Conditions as provided in paragraph 4.2 of the General Conditions, and accept the determination set forth in paragraph SC-4.2 of the Supplementary Conditions of the extent of the technical data contained in such reports and drawings upon which BIDDER is entitled to rely.
  - d. BIDDER has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, and studies (in addition to or to supplement those referred to in (c) above) which pertain to the subsurface or physical conditions at the site or otherwise may affect the Work as BIDDER considers necessary for the

performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of paragraph 4.2 of the General Conditions; and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by BIDDER for such purposes.

- e. BIDDER has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said Underground Facilities are or will be required by BIDDER in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of paragraph 4.3 of the General Conditions.
- f. BIDDER has correlated the results of all such observations, examinations, visits to the site, investigations, explorations, tests, data, reports and studies with the terms and conditions of the Contract Documents.
- g. BIDDER has given OWNER written notice of all conflicts, errors or discrepancies that he has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to BIDDER.
- h. The Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; BIDDER has not directly or indirectly induced or solicited any other BIDDER to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm, or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER.
- i. Bidder is familiar with and is satisfied as to all federal, state and local laws and Regulations that may affect cost, progress, performance and finishing the work.

4. Bidder will complete work for the costs indicated in the table as follows:

**PROJECT QUANTITIES**

**GALENA RIVER CANOE AND KAYAK LAUNCH - 2019**

<b>REF. NO.</b>	<b>BID ITEM DESCRIPTION</b>	<b>UNITS</b>	<b>TOTAL</b>	<b>UNIT PRICE</b>	<b>TOTAL COST</b>
1	CLEARING & GRUBBING	LS	1		
2	EXCAVATION	CY	1583		
3	TOPSOIL, THICKNESS 4 INCH (APPROX. 990 SY)	LS	1		
4	GRANULAR SUBBASE	TON	500		
5	CONCRETE STAIRS, AS PER PLAN	LS	1		
6	HANDRAIL, AS PER PLAN (GALVANIZED)	LF	13.2		
7	INLET - PRECAST UNIT	EA	1		
8	RCP CULVERT, 15"	LF	22.8		
9	RCP APRON, 15"	EA	1		
10	ENGINEERING FABRIC	SY	113		
11	STONE RIPRAP	TON	12		
12	HMA, 3 INCH THICK	TON	203		
13	CURB & GUTTER	LF	258		
14	PCC WALK, 6"	SY	114.1		
15	RAMP (INCLUDING TEMPORARY WORKS)	LS	1		
16	SLIDE RAIL	LS	1		
17	PAVEMENT MARKINGS, 4" *	LF	423		
18	PAVEMENT MARKINGS, 6" *	LF	65		
19	SIGN & POST, COMPLETE *	EA	1		
20	MULCH, HARDWOOD BARK	SY	40		
21	MULCH, STRAW	ACRE	0.18		
22	SEEDING AND FERTILIZING (CLASS 1B)	ACRE	0.18		
23	SILT FENCE	LF	227		
24	INLET PROTECTION	EA	1		
25	ORNAMENTAL GRASS, CLUMPS	EA	20		
26	MOBILIZATION	LS	1		
27	EROSION MOBILIZATION	EA	1		
28	CONCRETE TESTING	LS	1		
	<b>TOTAL BASE BID</b>				
	<b>ALTERNATES</b>				
A1	ROCK EXCAVATION	CF	500		
	<b>TOTAL ALTERNATES</b>				

**NOTES:**

- 1 \* LOCATION TO BE DECIDED BY CITY
- 2 CONTRACTOR MUST SUBMIT A STATEMENT EXPLAINING HOW THE RAMP WILL BE INSTALLED

All specific cash allowances are included in the price (s) set forth above and have been computed in accordance with paragraph 11.8 of the General Conditions.

5. BIDDER agrees that the Work will be substantially completed and completed and ready for final payment in accordance with paragraphs 14.13 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

6. The following document is attached to and made a condition of this Bid:

Required Bid security in the form of \_\_\_\_\_.

7. Communications concerning this Bid shall be addressed to the address of the BIDDER indicated below.

The following address:

\_\_\_\_\_  
\_\_\_\_\_

8. The terms used in this Bid which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents have the meanings assigned to them in the General Conditions.

Submitted on \_\_\_\_\_, 20 \_\_\_\_

Respectfully submitted:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
License Number  
(If Applicable)

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date

(SEAL if BID is by a corporation)

Attest: \_\_\_\_\_

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,

\_\_\_\_\_ as Principal and

\_\_\_\_\_ as Surety are

hereby held and firmly bound unto \_\_\_\_\_ as OWNER

in the penal sum of \_\_\_\_\_ for the

payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

The Condition of the above obligation is such that whereas

the Principal has submitted to \_\_\_\_\_

a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE,

- a. If said Bid shall be rejected, or
- b. If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims there under shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereunto affixed and these presents to be signed by their property officers, the day and year first set forth above.

\_\_\_\_\_ (Legal Seal)  
Principal

\_\_\_\_\_  
Surety

By: \_\_\_\_\_

**IMPORTANT:** Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

**STANDARD FORM OF AGREEMENT  
BETWEEN OWNER AND CONTRACTOR  
ON THE BASIS OF A STIPULATED PRICE**

THIS AGREEMENT is dated as of the ..... in the year **2019** by and between the CITY OF GALENA, Illinois (hereinafter called OWNER) and ..... (hereinafter called CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

**1. Work**

CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

**GALENA RIVER CANOE AND KAYAK LAUNCH**

The project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

**GALENA RIVER CANOE AND KAYAK LAUNCH**

**2. ENGINEER**

The project has been designed by City Engineer, City of Galena who is hereinafter called ENGINEER and who is to act as OWNER'S representative, assume all duties and responsibilities and have the rights and authority assigned to ENGINEER in the Contract Documents in condition with completion of the Work in accordance with the Contract Documents.

**3. Contract Time**

3.1 The Work will be substantially completed and completed and ready for final payment in accordance with paragraphs 14.13 of the General Conditions. **Substantial and final completion date will be 27 September 2019.**

3.2 Liquidated Damages. OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and the OWNER will suffer financial loss if the work is not completed within the times specified in paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER **two hundred dollars (\$200.00)** for each day that expires after the time specified in paragraph 3.1 for completion and readiness for final payment.

**4. Contract Price**

4.1 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents in current funds for the bid price of \$.....

**5. Payment Procedures**

CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by ENGINEER as provided in the General Conditions.

5.1 Progress Payment. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR’S Applications for Payment as recommended by ENGINEER, on or about the 25th day of each month during construction as provided below. All progress payments will be on the basis of the progress of the Work measured by the schedule of values established in paragraph 2.9 of the General Conditions (and in completed) or, in the event there is no schedule of values, as provided in the General Requirements.

5.1.1 Prior to Substantial Completion, progress payment will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as ENGINEER shall determine, or OWNER may withhold:

90% of Work completed. If Work has been 80% completed as determined by ENGINEER, and if the character and progress of the Work have been satisfactory to OWNER and ENGINEER, OWNER on recommendation of ENGINEER, may determine that as long as the character and progress of the Work remain satisfactory to them, there will be a reduction in the retainage on the remaining progress payments prior to Substantial Completion in an amount equal to 95% of the Work completed.

90% of materials and equipment not incorporated in the Work (but delivered, suitably stored and accompanied by documentation satisfactory to OWNER as provided in paragraph 14.2 of the General Conditions).

5.1.2 Upon Substantial Completion in an amount sufficient to increase total payment to CONTRACTOR to 95% of the Contract Price, less such amounts as ENGINEER shall determine, or OWNER may withhold, in accordance with paragraph 14.7 of the General Conditions.

5.2 Final Payment. Upon final completion and acceptance of the work in accordance with paragraph 14.13 of the General Conditions, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said paragraph 14.13.

**6. Interest**

All moneys not paid when due as provided in Article 14 of the General Conditions shall bear interest at the maximum rate allowed by law at the place of the Project.

## **7. CONTRACTOR Representations**

In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations.

7.1 CONTRACTOR has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

7.2 CONTRACTOR has studied carefully all reports of explorations and tests of subsurface conditions and drawings of physical condition which are identified in the Supplementary Conditions and accepts the determination of the extent of the technical data contained in such reports and drawings upon which CONTRACTOR is entitled to reply.

7.3 CONTRACTOR has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, reports and studies (in addition to or to supplement those referred to in paragraph 7.2 above which pertain to the subsurface or physical conditions at or contiguous to the site or otherwise may affect the cost, progress, performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of paragraph 4.2 of the General Conditions; and no additional examinations, investigations, explorations, tests, reports, studies or similar information or data are or will be required by CONTRACTOR for such purposes.

7.4 CONTRACTOR has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports, studies or similar information or data in respect of said Underground Facilities are or will be required by CONTRACTOR in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents.

7.5 CONTRACTOR has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

7.6 CONTRACTOR has given ENGINEER written notice of all conflicts, errors or discrepancies that he has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.

## **8. Contract Documents**

The Contract Documents which comprise the entire agreement between OWNER and CONTRACTOR concerning the Work consist of the following:

8.1 This Agreement.

8.2 Exhibits to this Agreement.

8.3 Performance and Payment Bonds.

- 8.4 Notice of Award.
- 8.5 Notice to Proceed.
- 8.6 General Requirements.
- 8.7 Supplementary Requirements
- 8.8 Specifications bearing the title:

**GALENA RIVER CANOE AND KAYAK LAUNCH**

- 8.9 Drawings, consisting of a cover sheet and sheets numbered 1, inclusive with each sheet bearing the following general title:

**GALENA RIVER CANOE AND KAYAK LAUNCH**

- 8.10 Addenda number N/A through N/A inclusive with each sheet bearing the following general title:

**N/A**

- 8.11 CONTRACTOR'S Bid and Bid Security.
- 8.12 Documentation submitted by CONTRACTOR prior to Notice of Award.
- 8.13 The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto: All Written Amendments and other documents amending, modifying, or supplementing the Contract Documents.
- 8.14 There are no Contract Documents other than those listed above in this Article 8. The Contract Documents may only be amended, modified or supplemented as provided in paragraphs 3.5 and 3.6 of the General Conditions.

**9. Miscellaneous**

- 9.1 Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.
- 9.2 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

9.3 OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this agreement in triplicate. One counterpart each has been delivered to OWNER, CONTRACTOR and ENGINEER. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or by ENGINEER on their behalf.

This Agreement will be effective on \_\_\_\_\_, 2019.

OWNER

CONTRACTOR

City of Galena

By \_\_\_\_\_

By \_\_\_\_\_

Mayor

(Corporate Seal)

(Corporate Seal)

Attest \_\_\_\_\_

Attest \_\_\_\_\_

Address for giving notices:

Address for giving notices:

City of Galena  
101 Green Street  
Galena, IL 61036

(If OWNER is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Agreement.)

License No. \_\_\_\_\_

Agent for service of process

\_\_\_\_\_

(If CONTRACTOR is a Corporation, attach evidence of authority to sign.)

**NOTICE OF AWARD**

Dated:

To:

Address:

OWNER'S Project No.:                   **NA**

Project:                                   **GALENA RIVER CANOE AND KAYAK LAUNCH**

Contract No:                           **N/A**

Contract For:                           **GALENA RIVER CANOE AND KAYAK LAUNCH**

\* \* \* \* \*

You are notified that your Bid dated ..... for the above Contract has been considered. You are the apparent successful bidder and have been awarded a contract for

**Base Bid**

(Indicate total work, alternates or sections of Work awarded)

The Contract Price of your contract is \$.....

Three copies of each of the proposed Contract Documents accompany this Notice of Award.

You must comply with the following conditions precedent within fifteen days of the date of this Notice of Award, that is by

1. You must deliver to the OWNER three fully executed counterparts of the Agreement.
2. You must deliver with the executed Agreement the Contract Security (Bonds as specified in the Instructions to Bidders (paragraph 17), General Conditions (paragraph 5.1), and Supplementary Conditions (paragraph SC-5.4)
3. List other conditions precedent: None.

Failure to comply with these conditions within the time specified will entitle OWNER to consider your bid abandoned, to annul this Notice of Award, and to declare your Bid Security forfeited.

Within ten days after you comply with those conditions, OWNER will return to you one fully signed counterpart of the Agreement.

City of Galena (Owner)

By: \_\_\_\_\_  
(Authorized Signature - Mayor)

Copy to ENGINEER  
(Use Certified Mail, Return Receipt Requested)

**NOTICE TO PROCEED**

Dated:

To:

Address:

OWNER'S Project No.: **NA**

Project: **GALENA RIVER CANOE AND KAYAK LAUNCH**

OWNER'S Contract No.: **N/A**

Contract for: **GALENA RIVER CANOE AND KAYAK LAUNCH**

\*\*\*\*\*

You are notified that the Contract Time under the above contract will commence to run on .....  
**2019**. By that date, you are to start performing your obligations under the Contract Documents. In accordance with Article 3 of the Agreement the dates of Substantial Completion and Final Completion are **27 September 2019**.

Before you may start any Work at the site, paragraph 2.7 of the General Conditions provides that you and OWNER must each deliver to the other (with copies to ENGINEER) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also before you may start any Work at the site, you must return two signed copies of this Notice to proceed to the ENGINEER of record.

\_\_\_\_\_  
(CONTRACTOR)

\_\_\_\_\_  
(Authorized signature)

\_\_\_\_\_  
(Title)

City of Galena

By \_\_\_\_\_  
(Authorized signature)

\_\_\_\_\_  
(Title)

## SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract (No. 1910-8, 1990 Edition) and other provisions of the Contract Documents as indicated below. All provisions which are not so amended or supplemental remain in full force and effect.

### SC-1

The terms used in these Supplementary Conditions which are defined in the Standard General Conditions of the Construction Contract (No. 1910-8, 1990 Edition) have the meanings assigned to them in the General Conditions.

### SC 5.4

The limits of liability for the insurance required by Paragraph 5.4 of the General Conditions shall provide the following coverage's for not less than the following amounts or greater where required by Laws and Regulations:

**5.4.1. and 5.4.2:** Workers' Compensation, etc., under Paragraphs 5.4.1 and 5.4.2 of the General Conditions:

(1)	State:	Statutory
(2)	Applicable Federal (e.g., Longshoreman's):	Statutory
(3)	Employer's Liability	Bodily Injury by Accident - \$1,000,000 Each Accident Bodily Injury by Disease - \$1,000,000 Each Employee Bodily Injury by Disease - \$1,000,000 Policy Limit

**5.4.3, 5.4.4, and 5.4.5:** Contractor's Liability Insurance under Paragraphs 5.4.3 through 5.4.5 of the General Conditions which shall also include completed operations and product liability coverage's:

(1)	General Aggregate (except products-completed operations)	\$3,000,000
(2)	Products-Completed Operations Aggregate	\$1,000,000
(3)	Personal and Advertising Injury (per person/organization)	\$1,000,000

(4)	Each Occurrence (bodily injury and property damage	\$1,000,000
(5)	Property Damage Liability insurance will provide explosion, collapse, and underground coverage's which applicable	Provide X, C, U Standard
(6)	Excess Liability:	
	General Aggregate	\$3,000,000
	Each Occurrence	\$1,000,000

**5.4.6: Automobile Liability:**

Combined Single Limit (bodily injury and property damage)	\$1,000,000 each accident
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**SC 5.6**

Delete Paragraph 5.6 of the General Conditions in its entirety and insert the following in its place.

5.6 CONTRACTOR shall purchase and maintain property insurance upon the Work at the site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in these Supplementary Conditions or required by Laws and Regulations). This insurance shall:

5.6.1 Include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and any other person or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;

5.6.2 Be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss and damage to the Work, temporary buildings, false work and Work in transit and shall insure against at least the following perils: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, and such other perils as may be specifically required by the Supplementary Conditions.

5.6.3 Include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

5.6.4 Cover materials and equipment in transit for incorporation in the Work or stored at the site or at another location that was agreed to in writing by OWNER prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by ENGINEER; and

5.6.5 Be maintained in effect until final payment is made unless otherwise agreed to in writing by OWNER, CONTRACTOR and ENGINEER with thirty days written notice to each other additional insured to whom a certificate of insurance has been issued.

The policies of insurance required to be purchased and maintained by CONTRACTOR in accordance with this paragraph 5.6 shall comply with the requirements of GC-5.8.

**5.7 The Contractor will indemnify and hold harmless the Illinois Department of Natural Resources and the City of Galena and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the Work, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property including the loss of use resulting there from; and is caused in whole or in part by any negligent or willful act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. NOTE: This above information to be included on the insurance certificate.**

Revised 1/14/2014

## **GENERAL REQUIREMENTS**

### **1. Drawings and Specifications**

1.1 The intent of the Drawings and Specifications is that the Contractor shall furnish all labor, materials, tools, equipment, and transportation necessary for the lawful and proper execution of the Work in accordance with the latest edition of the **“International Building Code”, “AIA Document A201”, “Standard General Conditions of the Construction Contract” and “City of Galena Specifications”** unless otherwise specified, and all incidental work necessary to complete the Project in an acceptable manner, ready for lawful use, occupancy or operation by the City of Galena.

1.2 Figure dimensions on Drawings shall govern over scale dimensions, and detailed Drawings shall govern over general Drawings. Any discrepancies found between the Drawings and Specifications and site conditions or any inconsistencies or ambiguities in the Drawings or Specifications shall be immediately reported to the City Engineer, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the Contractor's risk.

### **2. Materials, Services and Facilities**

2.1 It is understood that, except as otherwise specifically stated in the specifications, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the work within the specified time.

2.2 Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection.

2.3 Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.

2.4 Materials, supplies and equipment shall be in accordance with samples submitted by the Contractor and approved by the Engineer.

2.5 Materials, supplies or equipment to be incorporated into the Work shall not be purchased by the Contractor or the Subcontractor subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.

### **3. Inspection and Testing**

3.1 All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with generally accepted standards, and as may be further required and defined in the Contract Documents.

3.2 The Contractor shall provide at his expense the testing and inspection services required by this specification.

3.3 If the specifications, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any work to specifically be inspected, tested, or approved by someone other than the Contractor, the Contractor will give the Engineer timely notice of readiness. The Contractor will then furnish the Engineer the required certificates of inspection, testing or approval.

3.4 Inspections, tests or approvals by the Engineer or others shall not relieve the Contractor from his obligations to perform the Work in accordance with the requirements of the Contract Documents.

3.5 The City Engineer and his representatives will at all times have access to the Work. The Contractor will provide proper facilities for such access and observation of the work and also for any inspection, or testing thereof.

3.6 If any Work is covered contrary to the written instructions of the City Engineer it must, if requested by the City Engineer, be uncovered for his observation and replaced at the Contractor's expense.

3.7 If the City Engineer considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the City Engineer's request, will uncover, expose or otherwise make available for observation, inspection or testing as the City Engineer may require, that portion of the Work in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction. If, however, such Work is not found to be defective, the Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate Change Order shall be issued.

#### **4. Surveys, Permits, Regulations**

4.1 The Contractor shall hire, at his expense, a licensed surveyor to furnish all boundary surveys and establish all base line staking for locating all component parts of the Work together with a suitable number of bench marks adjacent to the Work.

4.2 From the information provided, unless otherwise specified, the Contractor shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pile locations and other working points, lines, elevations and cut sheets.

4.3 The Contractor shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction's, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

4.4 Permits and licenses of a temporary nature necessary for the prosecution of the Work shall be secured and paid for by the Contractor. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified. If the Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the City Engineer in writing, and any necessary changes shall be adjusted as provided in "Changes in the Work".

## **5. Protection of Work, Property and Persons**

5.1 The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Work and other persons who may be affected thereby, all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

5.2 The Contractor will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction. He will erect and maintain, as required by the conditions and progress of the Work, all necessary safeguards for safety and protection. He will notify owners of adjacent utilities when prosecution of the Work may affect them. The Contractor will remedy all damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by the Contractor, any subcontractor or anyone directly or indirectly employed by any of them or anyone for whose acts any of them be liable, except damage or loss attributable to the fault of the Contract Documents or to the acts or omissions of the Owner or the Engineer or anyone employed by either of them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of the Contractor.

5.3 In emergencies affecting the safety of persons or the work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the City Engineer or owner, shall act to prevent threatened damage, injury or loss. He will give the City Engineer prompt Written Notice of any significant changes in the Work or deviations from the specifications caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved, provided that such emergency did not arise in whole or in part as a result of any act or omission of Contractor, any of its Subcontractors or any of the persons directly or indirectly employed by any of them.

## **6. Supervision**

6.1 The Contractor will supervise and direct the work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The Contractor will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work.

## **7. Changes in the Work**

7.1 The City of Galena may at any time, as the need arises, order changes within the scope of the Work without invalidating the Agreement.

7.2 The City Engineer, also may at any time, by issuing a Field Order, make changes in the details of the Work. The Contractor shall proceed with the performance of any changes in the work so ordered by the Engineer.

## **8. Correction of Work**

8.1 The Contractor shall promptly remove from the premises all work rejected by the City Engineer for failure to comply with the Specifications, whether incorporated in the construction or not, and the Contractor shall promptly replace and re-execute the Work in accordance with the Specifications and without expense to the City of Galena and shall bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.

8.2 All removal and replacement Work shall be done at the Contractor's expense. If the Contractor does not take action to remove such rejected work within ten (10) days after receipt of Written Notice, the City of Galena may remove such Work and store the materials at the expense of the Contractor.

## **9. Insurance**

9.1 The Contractor shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from the Contractor's execution of the Work, whether such execution be by himself or by any Subcontractor or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable:

9.1.2 Claims under Worker's Compensation, disability benefit and other similar employee benefit acts;

9.1.3 Claims for damages because of bodily injury occupational sickness or disease, or death of his employees;

9.1.4 Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;

9.1.5 Claims for damages insured by usual personal injury liability coverage which are sustained: (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and

9.1.6 Claims for damages because of injury to or destruction of tangible property, including loss or use resulting there from.

9.2 Certificates of Insurance acceptable to the City of Galena shall be filed with the City of Galena prior to commencement of the Work. These Certificates shall contain a provision that coverage's afforded under the policies will not be canceled unless at least fifteen (15) days prior Written Notice has been given to the City of Galena.

9.3 The Contractor shall procure and maintain, at his own expense, during the Contract Time, liability insurance as hereinafter specified:

9.3.1 Contractor's General Public Liability and Property Damage Insurance including vehicle coverage issued to the Contractor and protecting him from all claims for personal injury, including death, and all claims for destruction of or damage to property, arising out of or in connection with any operations under the Contract Documents, whether such operations be by himself or by any Subcontractor under him, or anyone directly or indirectly employed by the Contractor or by a Subcontractor under him. Refer to Supplementary Conditions for written limits of liability.

9.4 The contractor shall procure and maintain, at his own expense during the Contract Time, in accordance with the provisions of the laws of the state in which the Work is performed, Workmen's compensation Insurance, including occupational disease provisions for all of his employees at the site of the Project and in case any Work is sublet, the Contractor shall require such Subcontractor similarly to provide Workmen's compensation Insurance, including occupational disease provisions for all of the latter employees unless such employees are covered by the protection afforded by the Contractor. In case any class of employees engaged in hazardous work under this contract at the site of the project is not protected under Workmen's Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate and suitable insurance for the protection of his employees not otherwise protected.

9.5 The contractor shall secure, if applicable, "All Risk" type Builder's Risk Insurance for Work to be performed. Unless specifically authorized by the Owner, the amount of such insurance shall not be less than the Contract Price totaled in the Bid. The policy shall cover not less than the losses due to fire, explosion, hail, lightning, vandalism, malicious mischief, wind, collapse, riot, aircraft, and smoke during the Contract Time, and until the Work is accepted by the City of Galena. The policy shall name as the insured the Contractor and the City of Galena

## **10. Indemnification**

**10.1 The Contractor will indemnify and hold harmless the Illinois Department of Natural Resources and the City of Galena and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the Work, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property including the loss of use resulting there from; and is caused in whole or in part by any negligent or willful act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. NOTE: This above information to be included on the insurance certificate.**

10.2 In any and all claims against the Owner or the Engineer, or any of their agents or employees, by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under Workmen's Compensation Acts, Disability Benefit Acts or other employee benefits acts.

10.3 The obligation of the Contractor under this paragraph shall not extend to the liability of the Engineer, his agents or employees arising out of the preparation or approval of maps, Drawings, opinions, reports, surveys, Change Orders, designs or Specifications.

## **11. Engineer's Authority**

11.1 The City Engineer shall act as the City of Galena's representative during the construction period. He shall decide questions which may arise as to quality and acceptability of materials furnished and Work performed. He shall interpret the intent of the Contract Documents in a fair and unbiased manner. The City Engineer will make visits to the site and determine if the Work is proceeding in accordance with the specifications.



## **12. Guarantee and Security**

12.1 The Contractor shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of Substantial Completion of the system that the completed system is free from all defects due to faulty materials or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments, or other Work that may be made necessary by such defects, the City of Galena may do so and charge the Contractor the cost thereby incurred.

12.2 A Performance Bond and a Payment Bond, each in the amount of one hundred percent (100%) of the contract price, with a corporate surety approved by the City of Galena, will be required for the faithful performance of the Contract. Attorneys-in-fact who sign Bid Bonds or Payment Bonds and Performance Bonds must file with each Bond a certified and effective dated copy of their power of attorney. Contractor shall guarantee the work for a period of one (1) year from date of final acceptance of the Work and the Performance Bond furnished by Contractor shall run for a like period.

12.3 The Performance Bond and Payment Bond shall be executed prior to construction in penal sums equal to the amount of the Contract Price, conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions and agreements of the specifications and upon the prompt payment by the Contractor to all persons supplying labor and materials in the prosecution of the Work provided by the Contract Documents. Such Bonds shall be executed by the Contractor and a corporate bonding company licensed to transact business in the state in which the Work is to be performed and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570, in the amount of the bonds supplied by such surety to not exceed the maximum amount shown for such surety in such publications. The expense of these Bonds shall be borne by the Contractor.

## **13. Barricades**

13.1 The Contractor shall erect barricades as required to protect traffic during the course of work in or along the traveled portion of a street, alley or highway. Approval for placement of barricades shall be obtained from the appropriate authority.

## **14. Periodic and Final Cleanup**

14.1 From time to time or as may be ordered by the City Engineer and immediately after completion of the Work, the Contractor shall at his own expense clean up and remove all refuse and unused materials of any kind resulting from the Work. Upon failure to do so within five (5) working days after receipt of written request from the Owner, the Work may be done by the Owner and the cost thereof be charged to the Contractor. Upon completion of the Work, the Contractor shall remove all his equipment and put the area of the Work in a neat and clean condition and do all other cleaning required to complete the Work in a workmanlike manner, ready for use and satisfactory to the City Engineer and City of Galena.

## **15. Final Inspection**

15.1 A meeting at the job site shall be arranged by the City Engineer for the purpose of Final Inspection. The Contractor's representative(s) in charge of overall field supervision will be required to attend. The purpose of the meeting shall be to determine whether the project is completed to the satisfaction of all parties. Any unsatisfactory items shall be documented in a letter to the Contractor for action. At this time the City of Galena will determine if the said alley will be open, as well as whether the issuance of the Building Occupancy permit will be approved.

## **16. Additional Work**

16.1 All additional work to be in accordance with latest edition of IDOT Standard Specification for Road and Bridge Construction detailed in Section 109. No additional work can be completed without authorization from the City Engineer. Contractor will inform City immediately or within 24 hours of any proposed change to the contract. Payment method will be agreed before additional work is completed and be based on unit prices, agreed lump sum or force account with hours agreed immediately or within 24 hours of proposed work. Force Account Form (see example) detailing the hours for labor and equipment is to be completed and submitted to City for approval within 24 hours of the proposed work being identified. When force account work is completed a breakdown of the labor, equipment and materials costs described in Section 109.04 is to be submitted to the City. No payment for the force account work will be authorized until the breakdown sheet is received and approved.

Revised 4/10/2014

## **SPECIAL PROVISIONS TO SPECIFICATIONS**

These specifications supplement the latest editions of “Standard Specifications for Water and Sewer Construction in Illinois”, “IDOT Standard Specifications for Road and Bridge Works” and “Standard General Conditions of the Construction Contract”.

### **TRAFFIC CONTROL**

Contractor shall provide and include for all traffic controls including: signage, barricades, cones, hazard warning lights and traffic control lights to allow safe working during day and night. All traffic control will be in accordance with IDOT Standard Specifications latest edition.

### **TURF RESTORATION**

This item is to include for provision of minimum of 4 inches of topsoil, grass seed, fertilizer and straw mulch. If sufficient topsoil is not recovered from the work site it will be the contractor’s responsibility to provide additional topsoil at no extra cost for this item. If the cost item is per ton contractor is to provide weight tickets indicating exact quantity of top soil delivered to the site.

### **EROSION CONTROL**

All erosion control is to comply with details indicated in the plans and specifications and also to standards required by Illinois EPA Storm Water Pollution Prevention Plan (SWPPP), if required. Contractor is to be responsible, unless otherwise noted in the contract, for completing SWPPP and all related documentation, including but not limited to Notice of Intent, Daily Inspection Reports, Notice of Completion and all related fees.

### **ADDITIONAL WORK**

All additional work to be in accordance with latest edition of IDOT Standard Specification for Road and Bridge Construction detailed in Section 109. No additional work can be completed without authorization from the City Engineer. Contractor will inform City immediately or within 24 hours of any proposed change to the contract. Payment will be agreed before additional work is completed and be based on unit prices, agreed lump sum or force account with hours agreed immediately or within 24 hours of proposed work. Force Account Form (see example) detailing the hours for labor and equipment is to be completed and submitted to City for approval within 24 hours of the proposed work being identified. When force account work is completed a breakdown of the labor, equipment and materials costs described in Section 109.04 is to be submitted to the City. No payment for the force account work will be authorized until the breakdown sheet is received and approved.

### **GRANULAR AGGREGATE BASE MATERIAL**

When aggregate base material is measured in linear feet, square feet or tons the contractor will be required to supply ‘weigh tickets’ for all material delivered to site. At the completion of the project these will be totaled and then converted to a volume measurement in cubic yards. The conversion factor of 1.92 will be used to convert between volume and weight. For example, one ton of aggregate base is equal to 1.92 cubic yards. For measurement and payment purposes any quantity will be converted to volume and then tons. This calculation will determine if the correct depth of aggregate material has been placed. If it is found the contract quantity has not been installed, then the payment amount will be adjusted accordingly to reflect the true tonnage of material that was installed. As an example, if the contract amount was for 500 linear feet of granular material 5 feet wide and 6 inches thick, this gives a volume of 46.3 cubic yards or 88.9 tons. If it is found the contractor has only installed 75 tons of material,

then the payment amount will be adjusted to match this tonnage. Conversely, if the contractor installs a greater tonnage than that in the design quantities they will only be paid for the design quantity.

**GENERAL NOTES:**

1. **Contractor must provide a written statement describing how the ramp will be installed.**
2. **Contractor will be responsible for Quality Control (QC) testing of concrete in accordance with IDOT Road and Bridge Standard Specifications. City will complete Quality Assurance (QA) testing.**
3. Unit cost for all new or replacement construction items will include for adjustment of all utilities, including adjusting valve boxes and other utility covers.
4. Unit cost for all new or replacement construction items will include for removal and disposal of all excavated material and site clearance of trees, vegetation and other debris.
5. New construction will match construction of existing surfaces on either side of area to be replaced. Unit cost will include for all saw-cutting of hard surfaces to allow construction to adjacent surfaces.
6. Unit cost for 5 inch thick sidewalk will include for minimum of 4 inch thick aggregate base and for 7 inch thick sidewalk base will be 6 inch thick aggregate base, with expansion material at start and finish and troweled control joints to match existing joints.
7. Unit cost for sidewalk will include for placing expansion material around power poles and other features.
8. Unit cost for excavation will include for all excavation and filling operations as indicated on the drawings. If there is the need for additional fill material or disposal of excess excavated material it will be responsibility of the contractor to include these items in the unit cost.
9. Unit cost for pipe end section will include excavation to install in accordance with manufacturers specifications.
10. Unit cost for curb/gutter and sidewalk will include for placing closed cell plastic expansion material to adjacent sidewalk, junction with curb/gutter and building property wall-
11. All steel reinforcement to be epoxy coated.
12. All concrete surfaces to be sealed with two coats of high-solids sealer. Contractor to confirm details of sealer to be proposed.
13. Contractor is to include all traffic management and control in their unit prices.
14. All ground disturbed during construction will be reinstated to its former condition.
15. Contractor is responsible for coordinating with all utilities regarding underground and overhead cables.
16. Construction staking will be completed once by IIW Engineers. If stakes are removed/damaged by the contractor it will be their responsibility to reinstate the stakes.
17. Borehole information and exploratory excavation from this location indicates there is no rock in the vicinity of the proposed excavation for relocating the watermain. If rock is encountered it will be paid for as additional work.
18. **Contractor must provide an insurance certificate when bid is awarded which complies with all requirements specified in Supplementary Conditions, including Builders Risk coverage. NOTE: These insurance requirements have recently been updated with increased coverage.**
19. Refer also to all construction specifications listed in drawings and specification section of General Requirements.
20. **All enquiries and questions about the contract documents are to be in writing, preferably by email, sent to Andy Lewis - City Engineer at: [alewis@cityofgalena.org](mailto:alewis@cityofgalena.org)**

## **SPECIFICATIONS**

### **1.0 Not used**

### **2.0 Not used**

### **3.0 AGGREGATE BASE COURSE**

Crushed aggregate base course shall consist of crushed stone or crushed gravel and be furnished in accordance with Section 1004 of the Standard Specifications for Road and Bridge Construction. Crushed aggregate base course shall conform to Gradation CA-6. Open graded base course shall conform to Gradation CA-11.

Base course shall be measured for payment in the street to 6 inches behind the curbs. Aggregate for base course for sidewalks and driveway aprons shall be considered incidental to the unit price bid for sidewalk or driveway aprons.

### **4.0 PORTLAND CEMENT CONCRETE PAVEMENT**

All concrete shall conform to the requirements as called for in Section 1020 of the Standard Specifications for Road and Bridge Construction, unless otherwise specified. All concrete shall be normal set air entrained concrete with water reducing agent, Grade PV capable of producing a minimum compressive strength of 3,000 psi in 3 days.

As soon after finishing operations as the free water has disappeared, the concrete surface shall be sealed by spraying on it a uniform coating of curing material in such a manner as to provide a continuous water impermeable film on the entire concrete surface.

Liquid curing compounds shall conform to the requirements of the Standard Specifications for Liquid Membrane-Forming Compounds for Curing Concrete, AASHTO Designation M148, Type 2, White Pigmented.

The material shall be applied to form a uniform coverage at the rate of not less than 1/2 gallon per 100 square feet of surface area.

Within 30 minutes after the forms have been removed, the edges of the concrete shall be coated with the curing compound, applied at the same rate as on the finished surface.

CONTRACTOR shall erect and maintain suitable barricades to protect the new concrete. Where it is necessary to provide for pedestrian traffic, the CONTRACTOR shall, at his own cost, construct adequate crossings as shown on the drawings or as specified. Crossing construction shall be such that no load is transmitted to the new concrete.

Any part of the work damaged or vandalized prior to final acceptance shall be repaired or replaced at the expense of CONTRACTOR.

Pedestrian traffic shall not be permitted over new concrete prior to 72 hours after application of curing material. Vehicular traffic shall not be permitted over newly placed concrete until a minimum compressive strength of 3,000 psi has been achieved.

When the atmospheric temperature exceeds 80°F during concrete placement, this section and ACI 305 shall apply in addition to all other sections of the specifications.

The temperature of the delivered concrete shall not exceed 85°F.

Care shall be exercised to keep mixing time and elapse time between mixing and placement at a minimum. Ready-mix trucks shall be dispatched in a timely manner to avoid delay in concrete placement, and the work shall be organized to use the concrete promptly after arrival at the job site.

The subgrade, forms, and reinforcing shall be sprinkled with cool water just prior to placement of concrete. Prior to placing concrete, there shall be no standing water or puddles on the subgrade.

If approved by ENGINEER, an admixture for retarding the setting of the concrete may be used.

Concrete shall be thoroughly tamped to remove all voids. The exposed surface shall be thoroughly troweled and finished with a brush at right angles to vehicular or pedestrian traffic. Handicap ramps shall be provided with detectable warning plates. All edges shall be rounded with a 1/4-inch radius edger. Honeycombed areas shall be pointed and rubbed with mortar to provide void-free surface.

Before final finishing, a 10-foot straight edge shall be used to check the surface. Any areas showing a variation of more than 1/4 inch from the straight edge shall be corrected. Final finishing shall be delayed a sufficient time so that excess water and grout will not be brought to the surface.

The cost for removal of existing concrete curb and gutter, sidewalk, driveway, and pavement shall be paid for according to the unit price bid for these items. Where a unit price is not provided for, the cost for these removals shall be included in the price Bid for adjacent street and utility construction.

Tie bars shall be installed where concrete pavement is to be installed adjacent to new curb and gutter. Tie bars shall be epoxy coated Grade 400 in accordance with Section 1006.10 of the Standard Specifications. Cost for tie bars installed in new curb and gutter shall be included in the unit price bid for Curb and Gutter. Tie bars installed in existing curb and gutter will be paid for according to the unit price bid.

Where shown on the drawings, concrete pavement shall be colored. Coloring admixture shall conform to ASTM C979, synthetic mineral-oxide pigments, or colored water reducing admixtures; color stable, non-fading, and resistant to lime and other alkalis. CONTRACTOR shall provide sample color panel prior to construction for comparison with existing.

Color shall be introduced after the water and aggregate has been added to the concrete mix. Follow manufacturer's instructions.

Protect all adjoining surfaces from colored concrete and sealer with polyethylene as a minimum. Immediately following placing of concrete, apply a light broom finish to roadway and crosswalk paving areas in a perpendicular direction of traffic, or broadcast one light application of colored hardener to concrete surface to achieve a sandpaper look.

Apply clear sealer for colored pavements. Apply two coats in continuous operations according to manufacturer's written instructions. Allow first coat to dry before applying second coat.

All costs including labor, material, and other miscellaneous work associated with colored pavement shall be included in the unit price bid for 9-IN Colored Concrete Pavement.

#### **5.0 REMOVAL OF EXISTING PAVEMENT AND APPURTENANCES**

This work shall consist of removing curb and gutter, crosswalk, driveway and sidewalk pavement at locations as shown on plans or requested by ENGINEER. The work shall be performed according to Sections 406, 423, and 440. The pavement shall be saw-cut at the removal limits. The sawcuts shall be full depth and lines shall be straight and as close to perpendicular to traffic flow as possible. Removal shall include excavating enough earth or aggregate below the existing pavement to a depth that will permit construction of a full depth pavement.

#### **6.0 REINFORCEMENT**

Reinforcing bars shall comply with ASTM A 615, Grade 60. Steel wire shall comply with ASTM A 82. Welded wire fabric shall comply with ASTM A 185.

Reinforcing shall be bent cold in shop and all bends shall conform to ACI standards.

Heating of reinforcement will not be permitted, and reinforcement shall not be bent or straightened in any manner that will injure the steel. Fabrication tolerances shall comply with CRSI Manual. Unless otherwise shown on the plans, all end hook dimensions shall conform with "ACI Standard Hooks."

#### **7.0 CONCRETE**

All cement used shall be Portland Cement Type 1 conforming to requirements of ASTM C150. The aggregate shall be well graded from coarse to fine. The maximum size aggregate shall be 1-1/2 inch for concrete pours thicker than 10 inches and 3/4-inch for pours 4 inches to 10 inches thick. All aggregate shall meet the requirements of ASTM C33. Water shall be clean and free from injurious amounts of oil, alkali, and organic matter.

Concrete shall have a 28-day minimum compressive strength of 4,000 psi, minimum cement content of six sacks per cubic yard, and a maximum of 5.5 gallons of total water per sack. The slump of the concrete shall be within the range of 2 to 3-1/2 inches. An air-entraining admixture conforming to ASTM C260, equal to "Darex", shall be used in all concrete to obtain 4% to 7% air content. A water reducer meeting ASTM C494 Type A requirements shall be included in the mix. Mixes shall be designed in accordance with ACI 211.1.

#### **8.0 JOINT FILLER**

Expansion joints shall have standard 1/2-inch closed cell foam expansion joint filler or equal; meeting ASTM D1752 -Type II. Exceptions to this are expansion joints in exterior concrete walks, and between concrete walks and other structures which shall be Sonneborn SL-1 or equal.

#### **9.0 REINFORCEMENT**

Comply with the specified standards for details and methods of placing reinforcement and supports. Clean reinforcement to remove loose rust, mill scale, earth, and other materials which reduce or destroy bond with concrete.

Splices in reinforcement shall be avoided wherever possible. Splices shall be Class B, Category 1 in accordance with ACI 318. Welded wire fabric shall be lapped at least one full mesh.

After reinforcement is placed, and before placing concrete over it, ENGINEER shall be allowed sufficient time to observe the reinforcing. All reinforcing must be securely positioned prior to placing concrete.

Minimum Reinforcing: Where reinforcing is not shown, provide a minimum of No. 4 at 8-inch centers each way in members 10 inches or less in thickness and No. 5 at 12-inch centers each way in each face in members greater than 10 inches thick.

#### **10.0 PLACEMENT OF CONCRETE**

Before placing concrete, all equipment, forms, ground, reinforcements, and other surfaces with which the concrete will come in contact are to be thoroughly cleaned of all debris, ice, and water. Ground shall be wetted prior to placement of concrete on it.

Ready mixed concrete shall be batched, mixed, and delivered in accordance with ASTM C94 and ACI 304.

Concrete shall be deposited in approximately horizontal layers not to exceed 18 inches in thickness. Each layer shall be well worked into the preceding layer while both layers are still soft. All concrete shall be compacted with mechanical vibration equipment.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to handling or flowing. The maximum allowable lateral movement of the concrete after being deposited is three feet. When concrete placement is started, it shall be carried on as a continuous operation until the placing of the section or panel is completed.

When atmospheric temperature exceeds 80°F during concrete placement, the provisions of ACI 305 shall be followed.

Cold weather concreting shall conform to all requirements of ACI 306.1. Cold weather is defined as a period when, for more than three successive days, the average daily temperature drops below 40°F. The average daily temperature is the average of the highest and lowest temperature during the period from midnight to midnight. When temperatures above 50°F occur during more than half of any 24 hour period, the period will no longer be regarded as cold weather.

After the curing period, the temperature of the concrete shall be reduced uniformly at a rate not to exceed 20°F per 24 hours. The use of salt or other chemical admixtures for the prevention of freezing is prohibited.

The top surfaces of floor slabs shall be screeded, floated, and then steel troweled to a smooth, dense finish. Exterior slabs shall then be broomed. All concrete surfaces shall have all fins, burrs, etc. removed by grinding, wire brushed, or tapping off with a hammer as required to be left in a smooth condition.

**CONTRACTOR shall complete concrete testing in accordance with IDOT Standard Specifications for Road and Bridge Works, IL modified AASHTO, ASTM IL test procedure R60 or T119.** In no case shall a given concrete mix be represented by less than four cylinders for the entire job. A slump test conforming to ASTM C143 shall be performed for each pair of cylinders. An air test conforming to ASTM C231 (pressure method) shall be made for each pair of cylinders. All costs of additional testing and sampling of fresh or hardened concrete needed because of suspected or actual violation of the specifications shall be borne by CONTRACTOR. Acceptance of cast-in-place concrete will be based on performance of material tests to those specified. Concrete not meeting the specified range of slump

and/or air will be rejected at the site. Concrete not meeting compressive strength requirements as demonstrated by test cylinders may be subject to removal or reduction in payment. ENGINEER shall receive a copy of the test results. All concrete testing costs shall be borne by CONTRACTOR.

When placing new concrete adjacent to existing concrete, the existing concrete shall be thoroughly roughened, cleaned and saturated with water 24 hours before pouring new concrete. Existing concrete is defined as concrete more than six months old. At time of new pour, remove any standing water and a bonding agent equal to THOROBOND by Standard Dry Wall Products, Inc., Sonocrete by Sonneborn Contech Co., or equal shall be applied in accordance with manufacturer's recommendations.

When patching existing concrete, remove poor concrete until firm hard concrete is exposed, roughen and clean surface of the existing concrete and clean any exposed reinforcing bars, and pour new concrete. Concrete finish to match existing concrete. New concrete shall be 4,000 psi 28-day strength mixed with ACRYL 60 by Standard Dry Wall Products, Inc., Sonocrete by Sonneborn Contech Co., or equal, mixed according to manufacturer's instructions. Concrete shall not be air entrained when patching concrete.

#### **11.0 SEALING**

**All concrete surfaces to be sealed with two coats of high-solids sealer: first coat to be Sil-Act ATS 190 LV and second coat to be Diamond Clear (Euclid Chemical) or equal. Contractor to provide specification sheet.**

At completion of project, clean surface thoroughly with detergent and rinse. Apply a second coat of sealer in accordance with manufacturer's instructions.

If detergent and rinse does not remove all dirt and staining, acid etch or shot blast surface to obtain clean and uniform surface. Apply two coats of sealer following manufacturer's directions.

CONTRACTOR is responsible for protection of floor slabs from staining or other damage during the construction period.

#### **12.0 TRAFFIC CONTROL**

Contractor shall provide all traffic controls including: signage, barricades, cones, hazard warning lights, flaggers and traffic control lights, to allow safe working during day and night. All traffic control to be in accordance with IDOT Standard Specifications latest edition.

## CITY OF GALENA WORK CHANGE DIRECTIVE

**THIS FORM MUST BE COMPLETED ON SAME DAY AS WORK IS AGREED AND/OR COMPLETED**

**WORKS ORDER # .....**

**DATE: .....**

**PROJECT NAME: .....**

**CONTRACTOR: .....**

**CONTRACTOR'S REPRESENTATIVE: .....**

**DESCRIPTION OF EXTRA WORK:**

**METHOD OF PAYMENT:**

PAYMENT METHOD	CHECK ONE	PAYMENT DETAILS (UNIT COSTS, AMOUNT)
UNIT PRICES		
LUMP SUM		
FORCE ACCOUNT		USE EXTRA WORK ORDER / TIME AND MATERIAL RECORD FORM PER IDOT STANDARD SPECIFICATIONS

**ESTIMATED/AGREED CHANGE IN CONTRACT PRICE AND CONTRACT TIME:**

CONTRACT PRICE: \$ .....

CONTRACT TIME (DAYS): .....

**COMMENTS – ADDITIONAL INFORMATION:**

CITY OF GALENA REPRESENTATIVE:

.....City Engineer  
Signature and Title

CONTRACTORS REPRESENTATIVE

.....  
Signature and Title

WCR 2/26/10

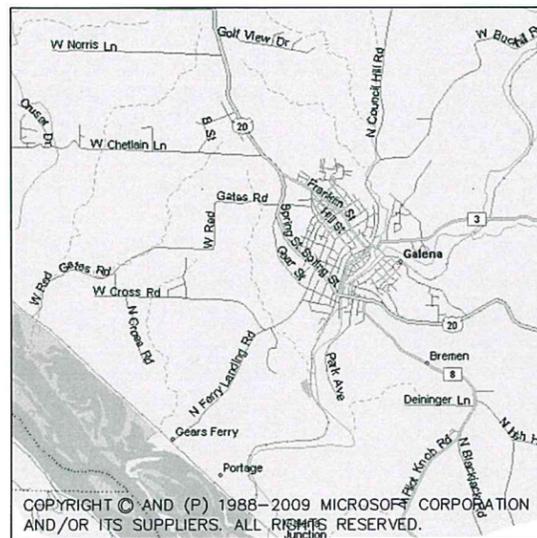
# GALENA RIVER CANOE AND KAYAK LAUNCH - 2015 CITY OF GALENA, ILLINOIS

## ILLINOIS DNR BOAT ACCESS AREA PROJECT BA 14-270

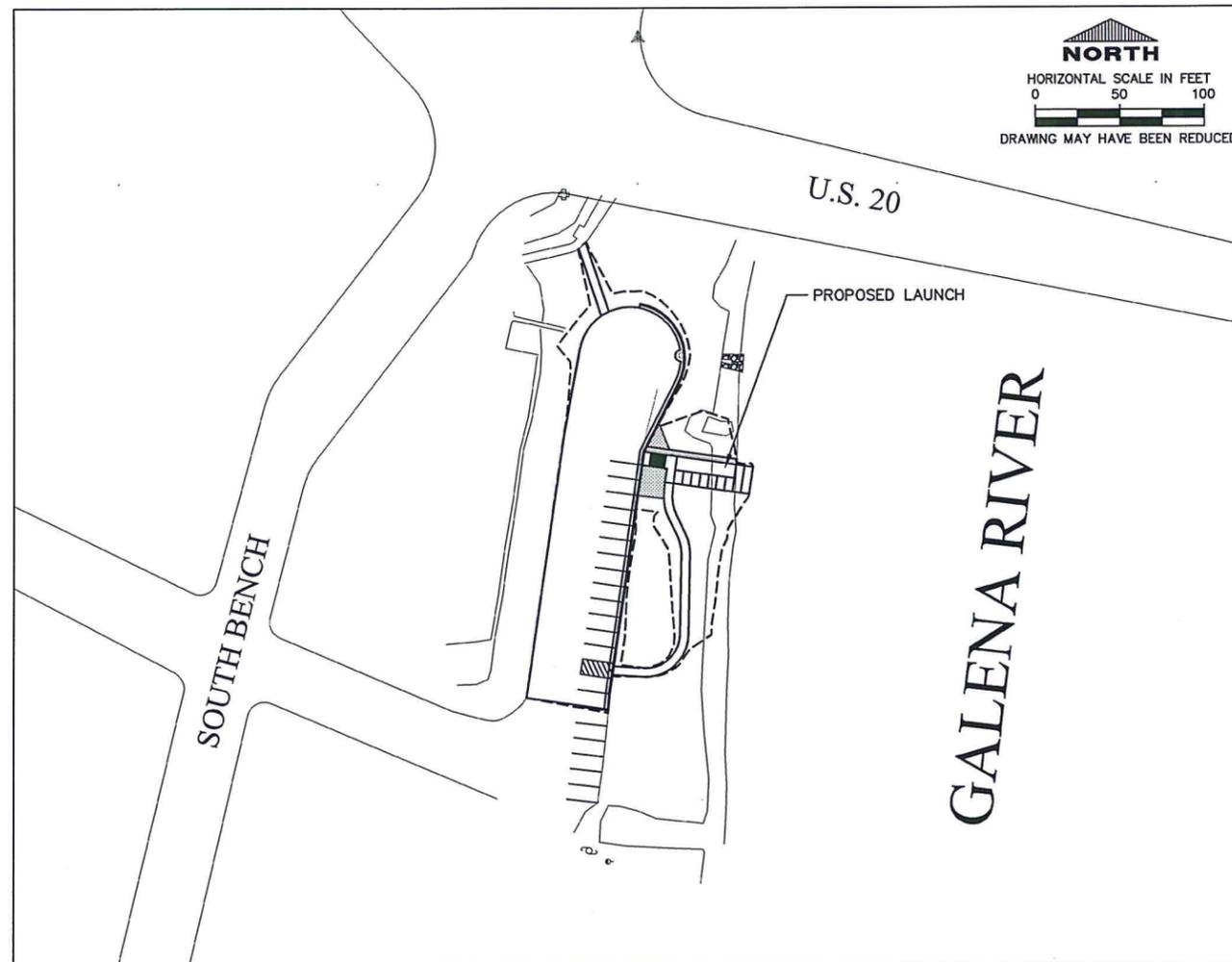
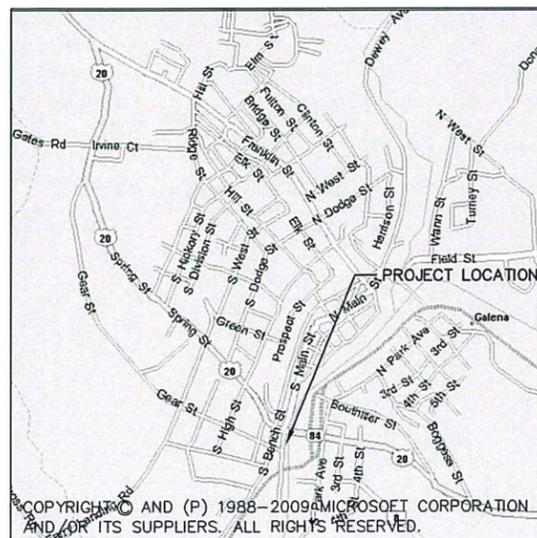
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PROJECT VICINITY



PROJECT LOCATION



PROJECT OVERVIEW

Sheet List Table

Sheet Number	Sheet Title
G1.01	COVER SHEET
G1.02	CIVIL ABBREVIATIONS, LEGEND & SURVEY
G1.03	QUANTITIES & REFERENCE NOTES
C2.01	EROSION CONTROL DETAILS
C2.10	EROSION CONTROL & GRADING PLAN
C6.01	PAVING & STORM DETAILS
C6.02	PAVING & STORM DETAILS
C6.03	STAIRS & RAILING DETAILS
C6.04	CANOE & KAYAK SLIDE
C6.10	SITE LAYOUT PLAN
C6.11	LAUNCH & STEP LAYOUT
C11.01	CROSS SECTIONS
C11.02	CROSS SECTIONS



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS

FOR IIW, P.C.  
PROFESSIONAL DESIGN FIRM LICENSE #184-000951

DENNIS F. WAUGH DATE 11/30/2015  
62-38659 RENEWAL DATE  
REG. #

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:  
INDEX ON THIS SHEET

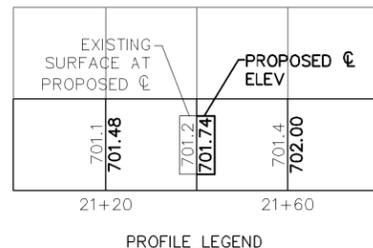
Project Description  
GENERAL COVER SHEET  
GALENA RIVER  
CANOE AND KAYAK LAUNCH - 2015  
CITY OF GALENA, ILLINOIS  
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Rev	Description	Date	By

Sheet No: **G1.01**  
Project No: 15033

## ABBREVIATIONS

Δ	CENTRAL ANGLE	FD	FLOOR DRAIN	R	RADIUS
A/C	AIR CONDITIONING(ER)	FDN	FOUNDATION	R&R	REMOVE & REPLACE
AC	ACRES	F.E.	FIELD ENTRANCE	R&S	REMOVE & SALVAGE
A.F.F.	ABOVE FINISHED FLOOR	FES	FLARED END SECTION	RCB	REINFORCED CONCRETE BOX
AGG	AGGREGATE	F-F	FACE TO FACE	RCP	REINFORCED CONCRETE PIPE
AOH	ARROW ON HYDRANT	FFE	FINISH FLOOR ELEVATION	RD	ROAD
ARCH	ARCHITECTURAL	FG	FORM GRADE	REBAR	REINFORCING BAR
ASPH	ASPHALT	FIN GR	FINISHED GRADE	REF	REFERENCE
AVG	AVERAGE	FL	FLOWLINE	REINF	REINFORCING/REINFORCED
		FLG	FLANGE	REV	REVISION
		FLR	FLOOR	RIM	RIM ELEVATION
B-B	B/C - B/C	FM	FORCE MAIN	ROW	RIGHT OF WAY
B/C	BACK OF CURB	FND	FOUND	RP	RADIUS POINT
B/DITCH	BOTTOM OF DITCH	FT	FOOT/FEET	RS	RESILIENT SEAT
BFP	BACKFLOW PREVENTOR	FTG	FOOTING	RT	RIGHT
B/L	BASE LINE	FUT	FUTURE		
B/S	BOTTOM OF SLOPE	FV	FIELD VERIFY		
BLDG	BUILDING			S	SOUTH
B.M.	BENCH MARK	G	GUTTER	S=	SUPERELEVATION
BOP	BEGINNING OF PROJECT	GC	GENERAL CONTRACTOR	SAN	SANITARY
BOT	BOTTOM	GALV	GALVANIZED	SANS	SANITARY SEWER
BSMT	BASEMENT	GND	GROUND	SB	SOIL BORING
BV	BUTTERFLY VALVE	GRN	GRANULAR	SCH	SCHEDULE
		GRD	GRADE	SD	SUB DRAIN
		GV	GATE VALVE	SEC	SECTION
C&G	CURB AND GUTTER			SE'LY	SOUTHEASTERLY
CATV	CABLE TELEVISION			SF	SQUARE FOOT
CB	CATCH BASIN	HMA	HOT MIX ASPHALT	S.F.D.	STEP FOOTING DOWN
C-C	CENTER TO CENTER	HORIZ	HORIZONTAL	SHT	SHEET
CF	CUBIC FEET	HPT	HIGH POINT	SIG.	SIGNAL
CH	CHORD	HYD	HYDRANT	SIM.	SIMILAR
CH BRG	CHORD BEARING			S'LY	SOUTHERLY
CIP	CAST IRON PIPE	ID	INSIDE DIA/INSIDE DIM	SOG	SLAB ON GRADE
C-I-P	CAST-IN-PLACE	IE	INVERT ELEVATION	SPEC	SPECIFICATION
CISP	CAST IRON SOIL PIPE	IMP	IMPROVEMENTS	SS	STAINLESS STEEL
CJ	CONTROL JOINT	IN	INCHES	ST	STREET
CL OR CL	CENTERLINE	INV	INVERT	STA	STATION
CLR	CLEAR	IP	IRON PIPE	STD	STANDARD
CMP	CORRUGATED METAL PIPE			STL	STEEL
CMU	CONCRETE MASONRY UNIT	JB	JUNCTION BOX	STM	STORM
CO	CLEAN OUT	JT	JOINT/JOINT LENGTH	STMS	STORM SEWER
COL	COLUMN			SW'LY	SOUTHWESTERLY
COMP	COMPACTED	K	RATE OF VERT CURVATURE	SY	SQUARE YARD
CONC	CONCRETE				
CONN	CONNECTION	L	LENGTH OF CURVE	T	TANGENT LENGTH
CONST	CONSTRUCTION	LAT	LATERAL	T/B	TOP OF BANK
CONT	CONTINUOUS	LF	LINEAL FOOT	T/DITCH	TOP OF DITCH
COR	CORNER	LONG	LONGITUDINAL	T/C	TOP OF CURB
CP	CONTROL POINT	LP	LIGHT POLE	T/GRAV	TOP OF GRAVEL
CPE	CORRUGATED POLYETHYLENE PIPE	LPT	LOW POINT	T/WALL	TOP OF WALL
CRST	CRUSHED STONE	LT	LEFT	T/P	TOP OF PAVEMENT
CSP	CORRUGATED STEEL PIPE			T/S	TOP OF SLOPE
CTRD	CENTERED	MAX	MAXIMUM	T/SUB	TOP OF SUBGRADE
CTR	CENTER	ME	MATCH EXISTING	T/W	TOP OF WALK
CULT	CULTIVATED	MH	MANHOLE	T & B	TOP AND BOTTOM
CV	CHECK VALVE	MIN	MINIMUM	T.O.B.	TOP OF BEAM
CY	CUBIC YARD	MISC	MISCELLANEOUS	T.O.B.L.	TOP OF BRICK LEDGE
		MON	MONUMENT	T.O.C.	TOP OF CONCRETE
				T.O.E.F.	TOP OF EXISTING FOOTING
D	DEGREE OF CURVE	N	NORTH	T.O.F.	TOP OF FOOTING
DIA (φ)	DIAMETER	N/A	NOT APPLICABLE	T.O.M.	TOP OF MASONRY
DIP	DUCTILE IRON PIPE	NE'LY	NORTHEASTERLY	T.O.P.	TOP OF PIER
DN	DOWN	N'LY	NORTHERLY	T.O.S.	TOP OF STEEL
DRWY	DRIVEWAY	NO/#	NUMBER	TCE	TEMP CONSTRUCTION EASEMENT
DS	DOWNSPOUT	NIC	NOT IN CONTRACT	TEL	TELEPHONE
DWG(S)	DRAWING(S)	NTS	NOT TO SCALE	TEMP	TEMPORARY
DWL(S)	DOWEL(S)	NW'LY	NORTHWESTERLY	THK	THICK / THICKNESS
		OC	ON CENTER	TWP	TOWNSHIP
		OD	OUTSIDE DIAMETER	TYP	TYPICAL
E	EAST			U	UTILITY
E'LY	EASTERLY	PC	POINT OF CURVE	UAC	USE AS CONSTRUCTED
EA	EACH	PERF	PERFORATED	UE	UTILITY EASEMENT
EJ	EXPANSION JOINT	PI	POINT OF INTERSECTION	UL	UNDERWRITERS LABORATORIES, INC.
EL	ELEVATION	P/L	PROPERTY LINE	ULFM	UNDERWRITERS LABORATORIES FACTORY MUTUAL
ELEC	ELECTRICAL	PM	PRINCIPAL MERIDIAN	UNO	UNLESS NOTED OTHERWISE
ELEV	ELEVATOR	POB	POINT OF BEGINNING		
EMBED	EMBEDMENT	POC	POINT OF CURVE	VAR	VARIES
ENGR	ENGINEER	POT	POINT OF TANGENT	VC	VERTICAL CURVE
ENTR	ENTRANCE	PRC	POINT OF REVERSE CURVE	VCP	VITRIFIED CLAY PIPE
EOP	END OF PROJECT	PRELIM	PRELIMINARY	VER	VERIFY
EOR	END OF RADIUS	PROP	PROPOSED	VERT	VERTICAL
E/P	EDGE OF PAVEMENT	PRV	PRESSURE REDUCING VALVE	VOL	VOLUME
EQ	EQUAL	PT	POINT OF TANGENCY	VPC	VERT POINT OF CURVE
E/S	EDGE OF SHOULDER	PVC	POLYVINYL CHLORIDE	VPI	VERT POINT OF INTERSECTION
ESMT	EASEMENT	PVMT	PAVEMENT	VPT	VERT POINT OF TANGENCY
EST	ESTIMATE				
EX	EXISTING	QTY	QUANTITY		
EXC	EXCAVATE/EXCAVATION			W	WEST
EXP	EXPANSION			W/	WITH
EXT	EXTERIOR			W'LY	WESTERLY
EXTD	EXTEND			WM	WATER MAIN
EW	EACH WAY			W/O	WITHOUT
				W.P.	WORKING POINT
				WD	WOOD
				WSO	WATER SHUT OFF
				WV	WATER VALVE
				WWF	WELDED WIRE FABRIC
				YD	YARD



PROFILE LEGEND

## LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
---	---	⊠	CATCH BASIN
---	---	⊙	AREA INTAKE
---	---	⊕	STORM MANHOLE
---	---	⊗	SANITARY MANHOLE
---	---	⊖	UTILITY MANHOLE
---	---	⊙	WATER VALVE MANHOLE
---	---	⊗	FIRE HYDRANT
---	---	⊗	WATER SHUT OFF
---	---	⊗	WATER VALVE
---	---	⊗	YARD HYDRANT
---	---	⊗	GAS VALVE
---	---	⊗	SIGN
---	---	⊗	UTILITY POLE
---	---	⊗	UTILITY POLE WITH LIGHT
---	---	⊗	TRAFFIC SIGNAL POLE
---	---	⊗	GUY ANCHOR
---	---	⊗	LIGHT POLE
---	---	⊗	UTILITY PEDESTAL
---	---	⊗	WELL
---	---	⊗	MAILBOX
---	---	⊗	WATER LEVEL
---	---	⊗	BOLLARD
---	---	⊗	SOIL BORING
---	---	⊗	POST INDICATOR VALVE
---	---	⊗	DECIDUOUS TREE W/ TRUNK DIA.
---	---	⊗	CONIFEROUS TREE W/ TRUNK DIA.
---	---	⊗	SHRUB OR BUSH

### SURVEY

- FOUND REBAR
- FOUND IRON PIPE
- SET REBAR

### SURVEY INFORMATION

HORIZONTAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
461	2092172.92	2225054.29	609.11	CONTROL POINT REBAR 5/8X24
462	2091934.32	2225119.90	600.72	CONTROL POINT REBAR 5/8X24
463	2092256.35	2225038.17	615.02	CONTROL POINT CUT X
464	2092080.72	2225263.22	598.09	CONTROL POINT SPIKE BRIDGESPIKE

BENCHMARKS		
BENCH MARK #	ELEVATION	DESCRIPTION
10000	611.37	B.M.1 XLP BASE UUL
10001	605.53	B.M.2 MAG NAIL PPOLE



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## GENERAL ABBREVIATIONS, LEGEND AND SURVEY INFORMATION

GALENA RIVER  
CANOE AND KAYAK LAUNCH - 2015  
CITY OF GALENA, ILLINOIS

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Drawing Issue Information	Project Mgr: JPN	Drawn By: .	Issued For Construction: .	Date
Project Mgr: JPN	Issued For Bidding: .	Issued For Construction: .	Issued For Construction: .	Date
Sheet No:				Rev

G1.02

Project No: 15033



**EROSION CONTROL LEGEND**  
**TEMPORARY**      **PERMANENT**

→ TD →	DIVERSION		SURFACE ROUGHENING
	CONSTRUCTION ENTRANCE	— CD — CD	CHECK DAM
	SEEDING	— SC — SC	STONE CHECK
	MULCHING		LEVEL SPREADER
— CRS —	CONSTRUCTION ROAD STABILIZATION		VEG STREAMBANK STABILIZATION
	STREAM CROSSING		STRUCT STREAMBANK STABILIZATION
	ROCK DAM		SOD DROP INLET PROTECTION
	SEDIMENT TRAP	→ SD →	SLOPE DRAINS
	INLET PROTECTION		RIPRAP LINED CHANNELS
	LEVEL SPREADER		GRASS LINED CHANNELS (— MATERIAL REQ'D)
	DUST CONTROL		SEDIMENT BASIN
— SF —	SILT FENCE	— PD —	DIVERSION
			TOPSOILING
			SEEDING
			SODDING
			OUTLET PROTECTION
			SEED, FERTILIZE AND MULCH
			REVTMENT SLOPE PROTECTION

NOTE:  
 PERMANENT MAY BE USED AS TEMPORARY, TEMPORARY SHALL NOT BE USED AS PERMANENT.

**6 EROSION CONTROL LEGEND**  
 C2.01 NOT TO SCALE

**TEMPORARY CONTROLS**

**CONSTRUCTION ACTIVITY<sup>1</sup>**  
 CONSTRUCTION ACCESS, CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS.  
**SEDIMENT TRAPS AND BARRIERS, BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION.**  
**RUNOFF CONTROL, DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.**  
**RUNOFF CONVEYANCE SYSTEM, STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.**  
**LAND CLEARING AND GRADING, SITE PREPARATION-- CUTTING, FILLING AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING.**

**PERMANENT CONTROLS**

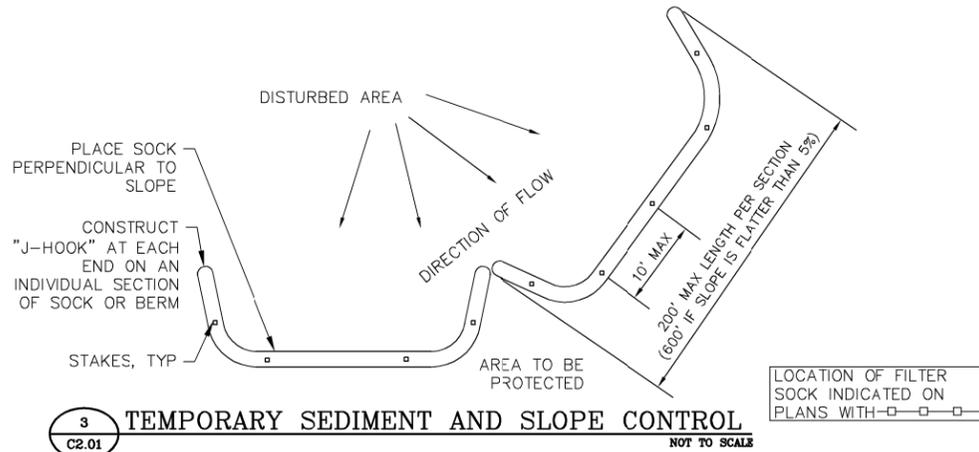
**SURFACE STABILIZATION, TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.**  
**BUILDING CONSTRUCTION, BUILDINGS, UTILITIES, PAVING.**  
**LANDSCAPING AND FINAL STABILIZATION, TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.**

<sup>1</sup> MAINTENANCE, (1) MAINTENANCE INSPECTIONS SHOULD BE PERFORMED WEEKLY, OR AFTER EACH " " RAINFALL, AND (2) AFTER PERIODS OF RAINFALL, MAINTENANCE REPAIRS SHOULD BE MADE IMMEDIATELY.

**SCHEDULE CONSIDERATION**

FIRST LAND-DISTURBING ACTIVITY--STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.  
 INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.  
 INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.  
 WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.  
 BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.  
 APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.  
 INSTALL NECESSARY EROSION AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE. LAST CONSTRUCTION PHASE--STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.

**16 EROSION CONTROL NOTES**  
 C2.01 NOT TO SCALE



**GENERAL NOTES:**

- PROTECTION SHOWN IS TYPICAL FOR SLOPES FLATTER THAN 3:1. FOR STEEPER SLOPES INCREASE SIZE AS DIRECTED BY THE ENGINEER.
- FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, KNITTED MESH NETTING WITH 3/8 INCH OPENINGS, CONSTRUCTED OF A 5 MIL THICKNESS PHOTODEGRADABLE 8" MINIMUM DIAMETER HDPE.
- FOR INLET PROTECTION USE A CONTINUOUS TUBULAR KNITTED MESH NETTING WITH 3/8 INCH OPENINGS, CONSTRUCTED OF 500 DENIER POLYPROPYLENE.
- FILTER MATERIAL FOR USE IN SOCK AS SPECIFIED:
  - USE MATERIAL DERIVED FROM WOOD, BARK, OR OTHER NON-TOXIC VEGETATIVE FEEDSTOCKS.
  - USE MATERIALS WITH NO VISIBLE ADMIXTURE OF REFUSE OR OTHER PHYSICAL CONTAMINANTS, NOR ANY MATERIAL TOXIC TO PLANT GROWTH.
  - USE MATERIALS MEETING THE FOLLOWING PARTICLE SIZES: 100% PASSING THE 2" SIEVE SIZE, 90-100% PASSING THE 1" SIEVE SIZE, AND 0-30% PASSING THE 3/8" SIEVE SIZE.
  - THE TARGET FLOW RATE OF IN-PLACE MATERIAL IS 10 GAL/MIN/LF.

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**EROSION CONTROL DETAILS**

GALENA RIVER CANOE AND KAYAK LAUNCH - 2015 CITY OF GALENA, ILLINOIS

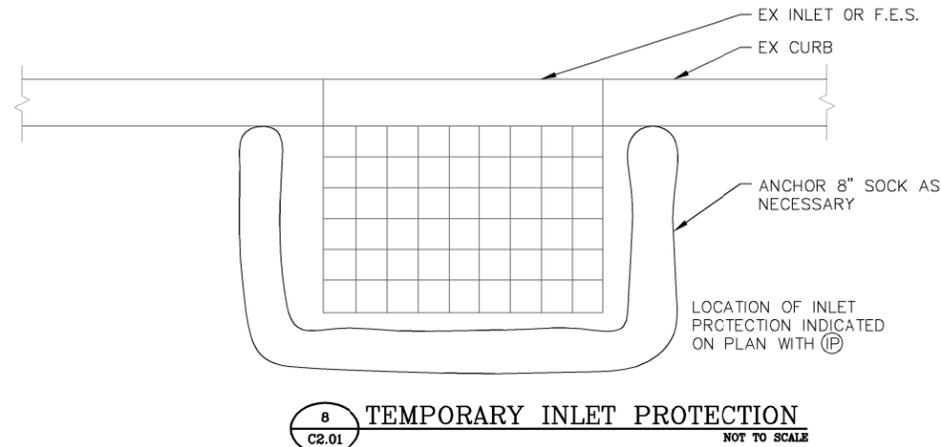
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Drawing Issue Information		Project Description	
Project Mgr: JPN	Issued For Bidding:	Project: 2015	LAUNCH - 2015
Drawn By: CANOE AND KAYAK LAUNCH	Issued For Construction:		
Rev	Description	Date	By

Sheet No:

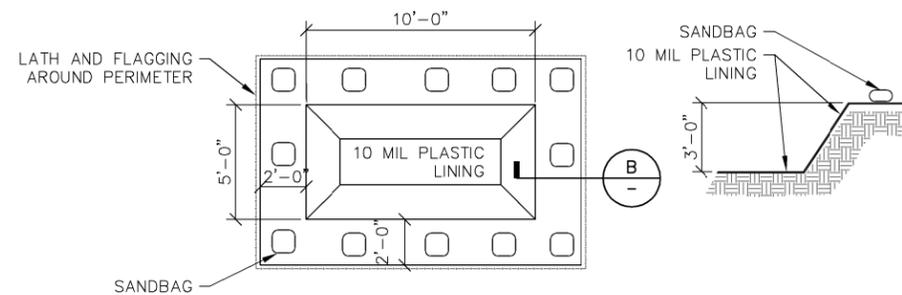
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Project No: 15033



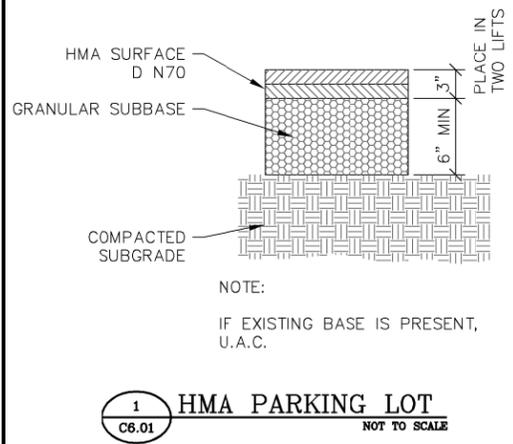
**NOTES:**

- WASHOUT FACILITY SHALL NOT BE LOCATED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR WATERBODIES.
- WASHOUT FACILITIES MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED ONCE THE FACILITY IS 75% FULL. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. IF THE FACILITY IS TO BE REUSED, LINE THE STRUCTURE WITH NEW 10 MIL POLYETHYLENE SHEETING FREE OF HOLES OR TEARS.
- A SIGN SHALL BE POSTED ADJACENT TO THE FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS OF THE FACILITY OR THE JOB SITE SUPERINTENDENT SHALL ENSURE THAT CONCRETE EQUIPMENT OPERATORS USE THE WASHOUT FACILITY.
- IF NECESSARY, A CRUSHED STONE PATH SHALL BE CONSTRUCTED TO PROVIDE EASE OF ACCESS FOR EQUIPMENT.
- WHEN THE FACILITY IS NO LONGER REQUIRED, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF, THE MATERIALS USED TO CONSTRUCT THE FACILITY SHALL BE REMOVED, AND THE HOLE BACKFILLED AND THE SURROUNDING AREA REPAIRED.

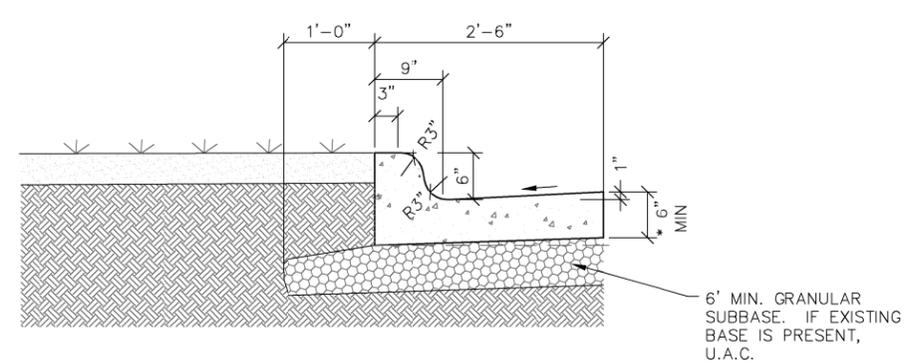


**18 TEMPORARY CONCRETE WASHOUT**  
 C2.01 NOT TO SCALE

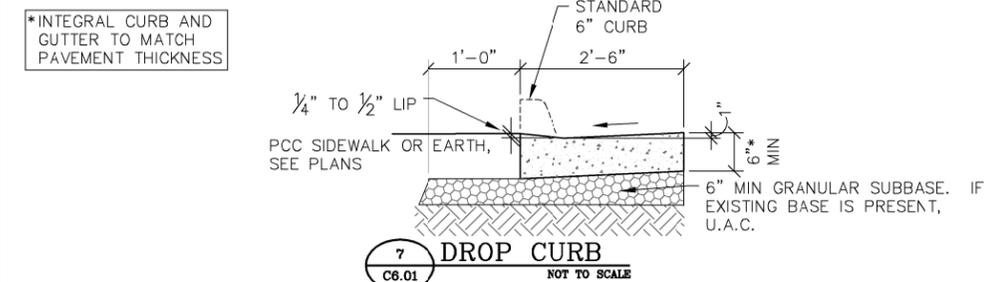




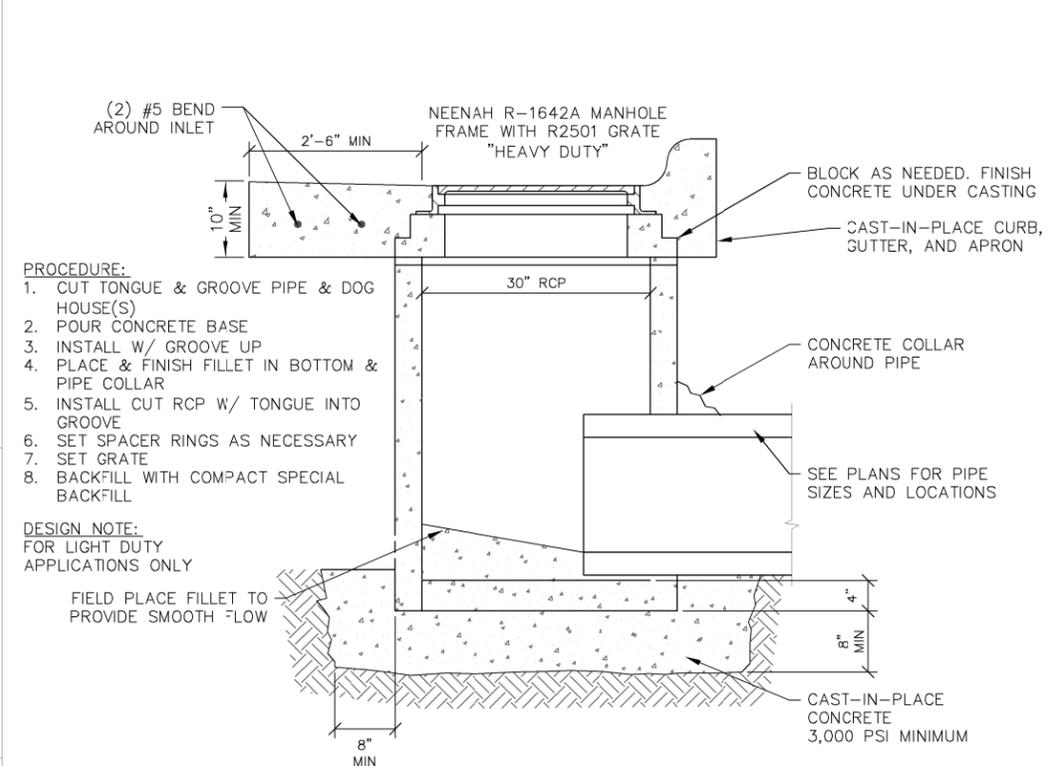
**1 HMA PARKING LOT**  
C6.01 NOT TO SCALE



**2 STANDARD CURB AND GUTTER**  
C6.01 NOT TO SCALE

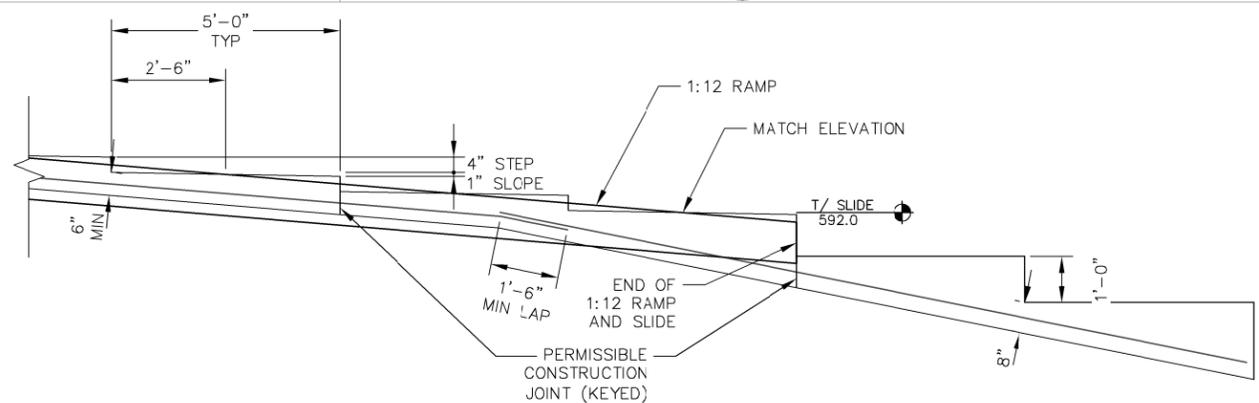


**7 DROP CURB**  
C6.01 NOT TO SCALE



**9 30" RCP AREA INLET**  
C6.01 NOT TO SCALE

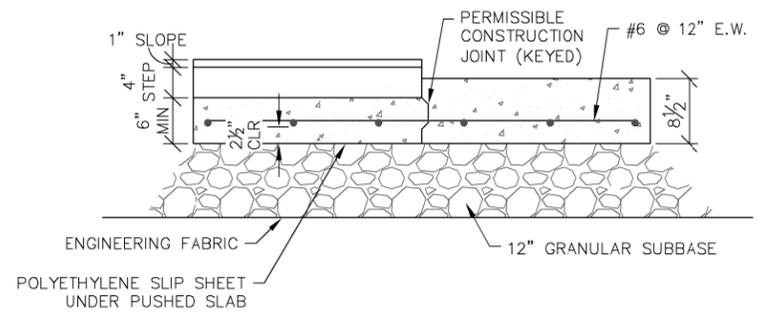
- PROCEDURE:**
- CUT TONGUE & GROOVE PIPE & DOG HOUSE(S)
  - POUR CONCRETE BASE
  - INSTALL W/ GROOVE UP
  - PLACE & FINISH FILLET IN BOTTOM & PIPE COLLAR
  - INSTALL CUT RCP W/ TONGUE INTO GROOVE
  - SET SPACER RINGS AS NECESSARY
  - SET GRATE
  - BACKFILL WITH COMPACT SPECIAL BACKFILL
- DESIGN NOTE:**  
FOR LIGHT DUTY APPLICATIONS ONLY



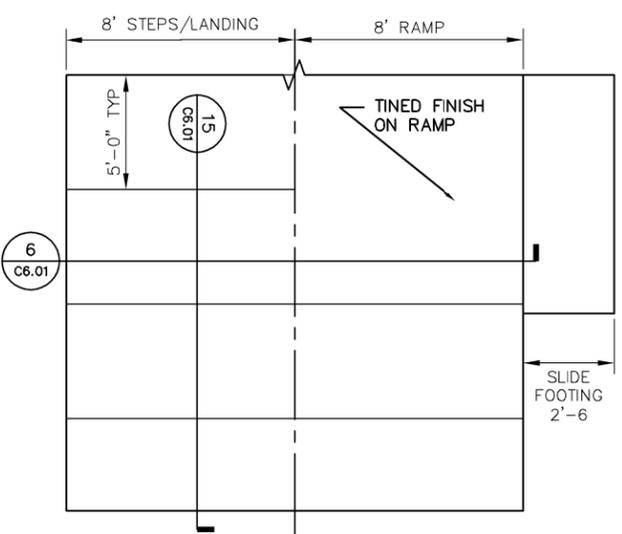
**15 TYPICAL RAMP STEPS SECTION**  
C6.01 NOT TO SCALE

ALL RAMP REINF. TO BE EPOXY COATED

RAMP TO BE CONSTRUCTED IN DEWATERED EXCAVATION. PRECASTING AND PUSHING BOTTOM SECTION WILL BE CONSIDERED IF ADEQUATE DEWATERING CANNOT BE ACCOMPLISHED



**6 TYPICAL RAMP SECTION**  
C6.01 NOT TO SCALE



**16 KAYAK/CANOE LAUNCH RAMP - PLAN VIEW**  
C6.01 NOT TO SCALE

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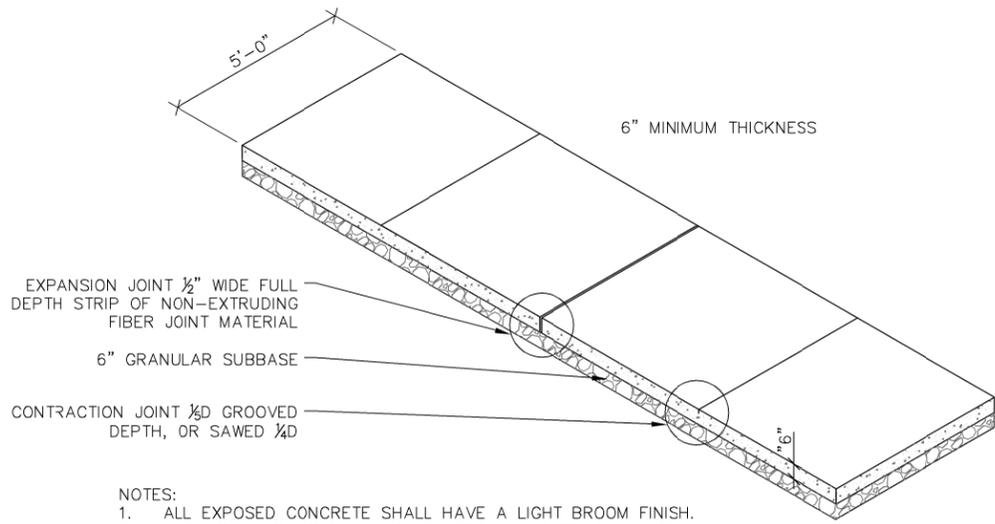
**PAVING & STORM  
DETAILS**

GALENA RIVER  
CANOE AND KAYAK LAUNCH - 2015  
CITY OF GALENA, ILLINOIS

Project Description:  
CANOE AND KAYAK LAUNCH - 2015

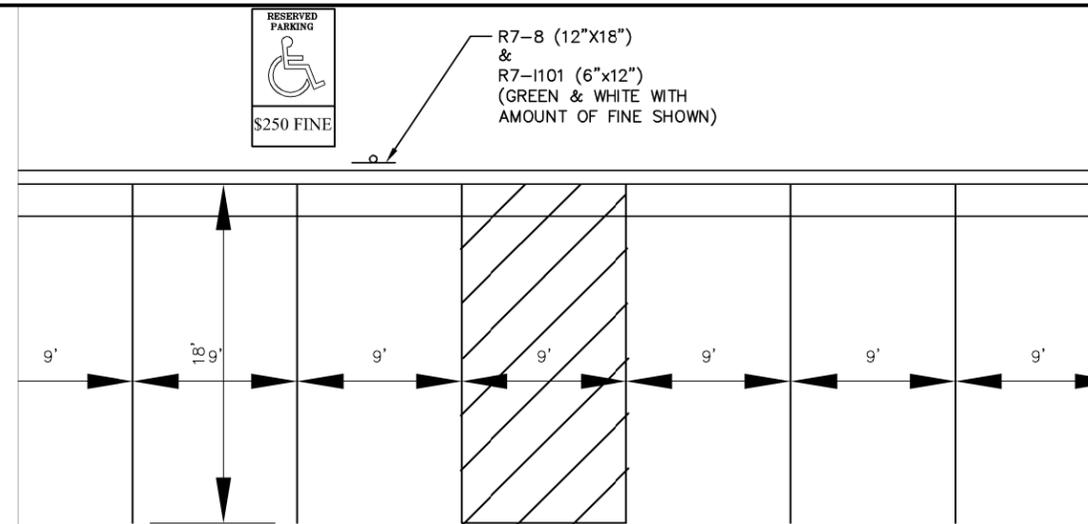
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Sheet No: **C6.01**  
Project No: 15033



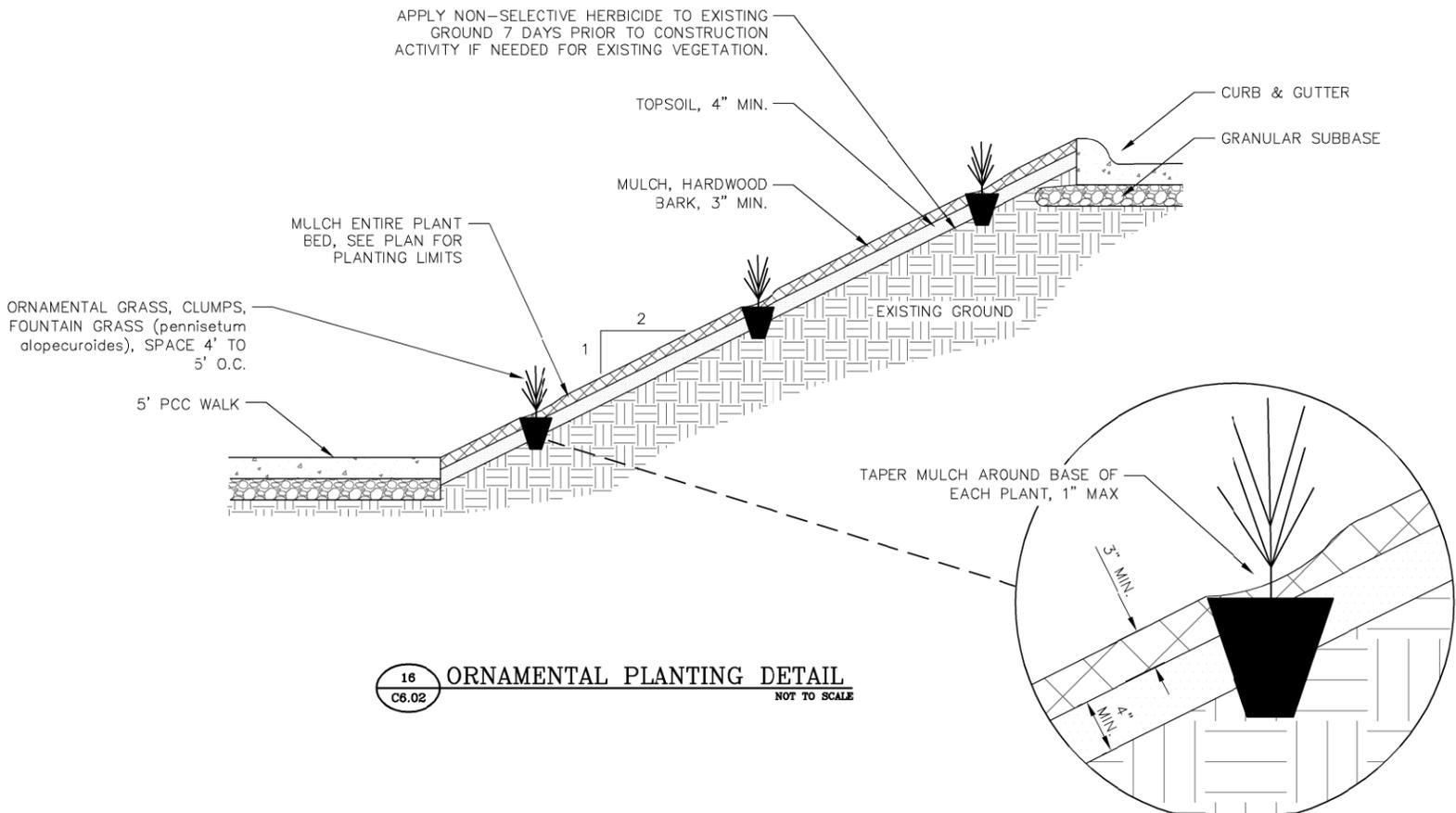
- NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
  2. EXPANSION JOINTS SHALL BE PLACED AT ABUTTING WALKS, DRIVEWAYS, CURBS, FOUNDATIONS OR OTHER FIXTURES.
  3. EXPANSION JOINTS MAXIMUM SPACING SHALL BE 100 FEET.
  4. CONTRACTION JOINT SPACING TYPICALLY EQUAL TO SIDEWALK WIDTH.
  5. CROSS SLOPE TYPICAL  $\frac{1}{4}$ " PER FOOT.

**6** TYPICAL SIDEWALK  
C6.02 NOT TO SCALE



- NOTES:
- WHITE, 4" PAINTED PAVEMENT MARKINGS.
  - INSTALL LOADING/UNLOADING ZONE BETWEEN ACCESSIBLE SPACES BY PAINTING 6" WHITE LINES AT 45 DEGREE ANGLE, 3' APART.

**9** TYPICAL PARKING LOT MARKING  
C6.02 NOT TO SCALE



**16** ORNAMENTAL PLANTING DETAIL  
C6.02 NOT TO SCALE

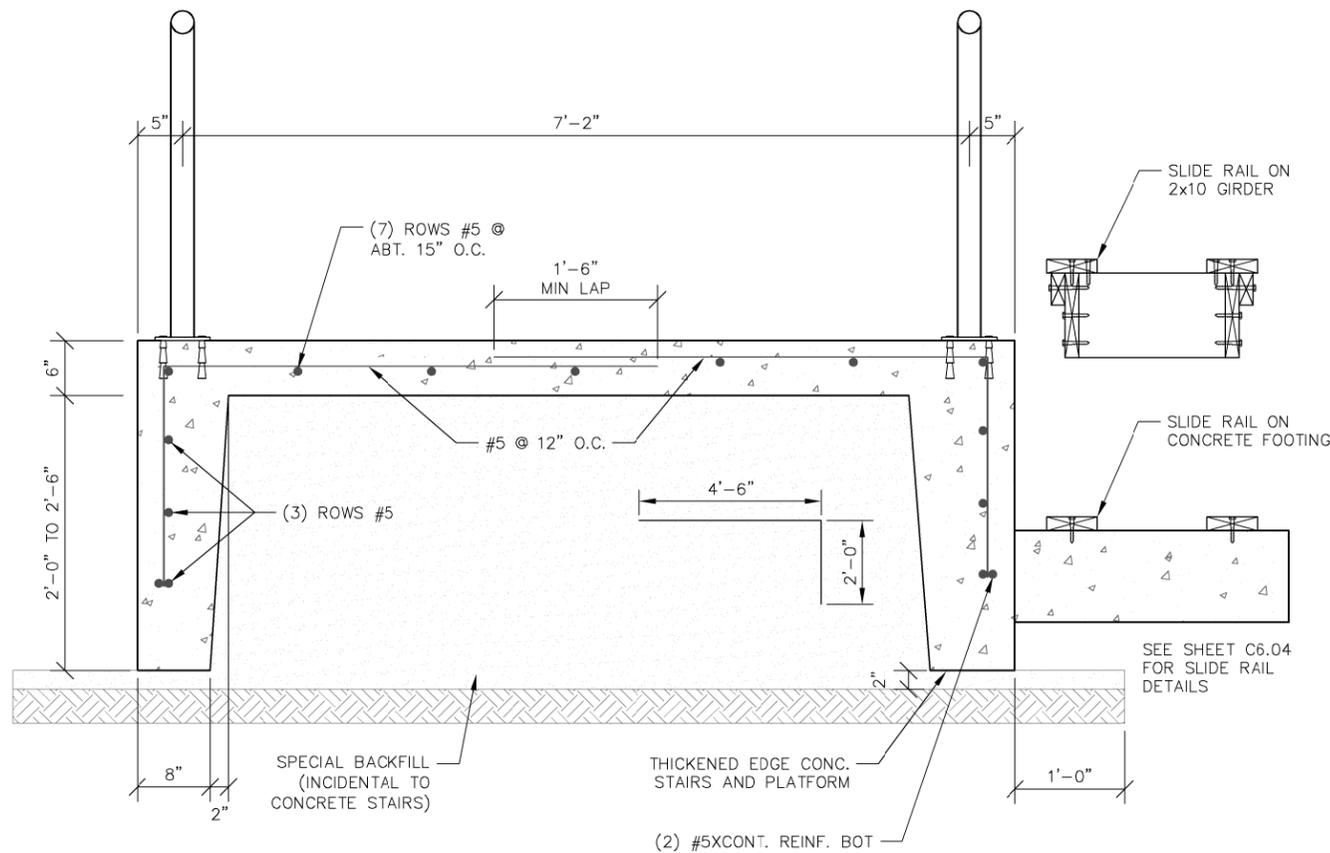
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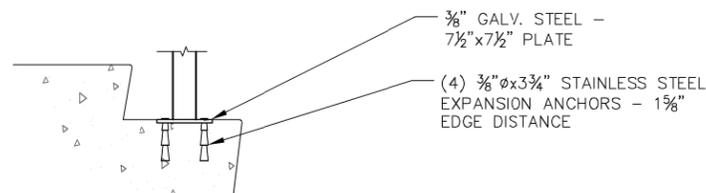
**PAVING & STORM  
DETAILS**  
GALENA RIVER  
CANOE AND KAYAK LAUNCH - 2015  
CITY OF GALENA, ILLINOIS  
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Rev	Date	By	Description

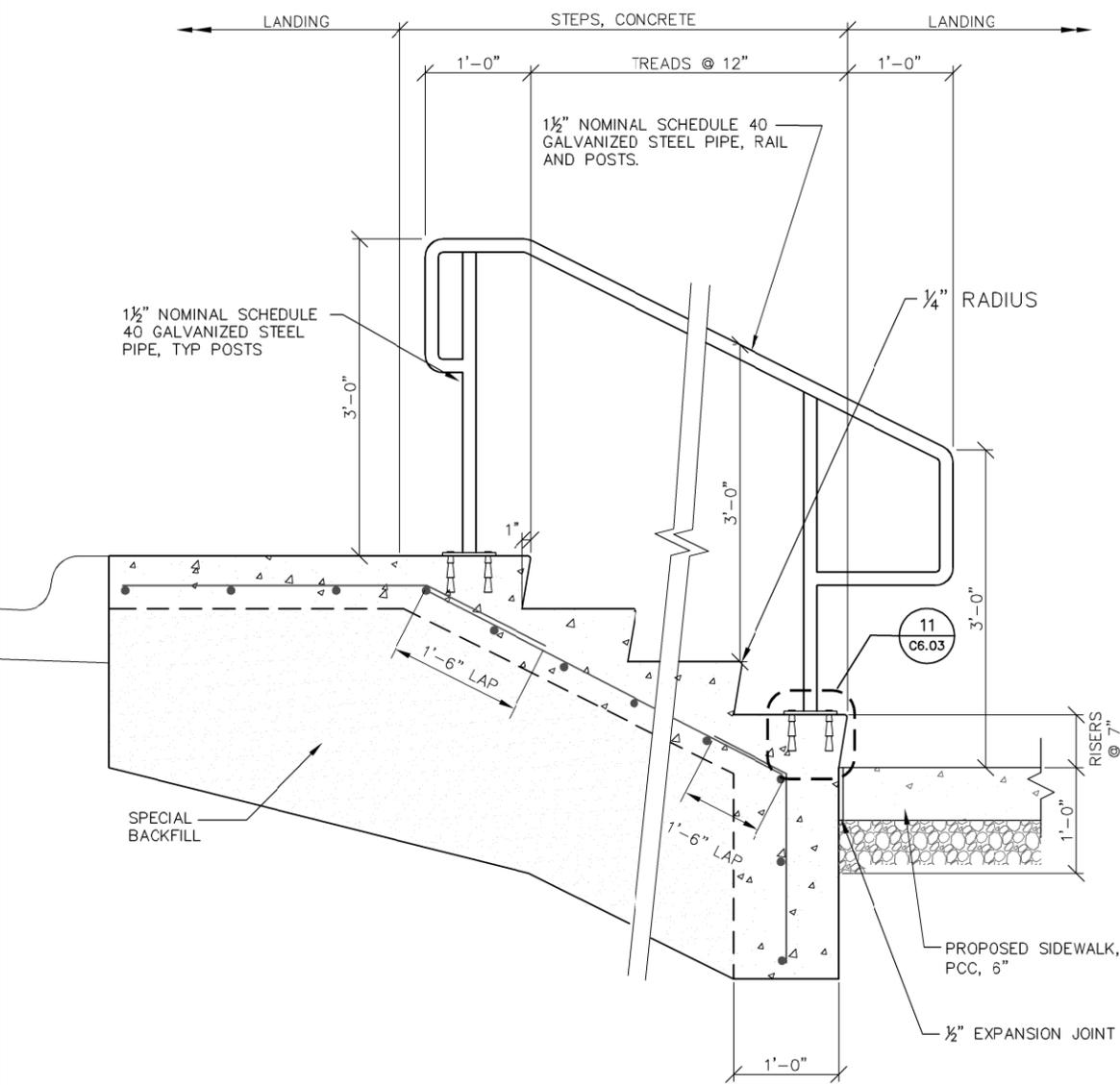
Sheet No: **C6.02**  
Project No: 15033



**6 STAIR SECTION**  
 C6.03 TYP. SECTION NOT TO SCALE



**11 POST DETAIL**  
 C6.03 NOT TO SCALE



**14 STAIR ELEVATION**  
 C6.03 NOT TO SCALE

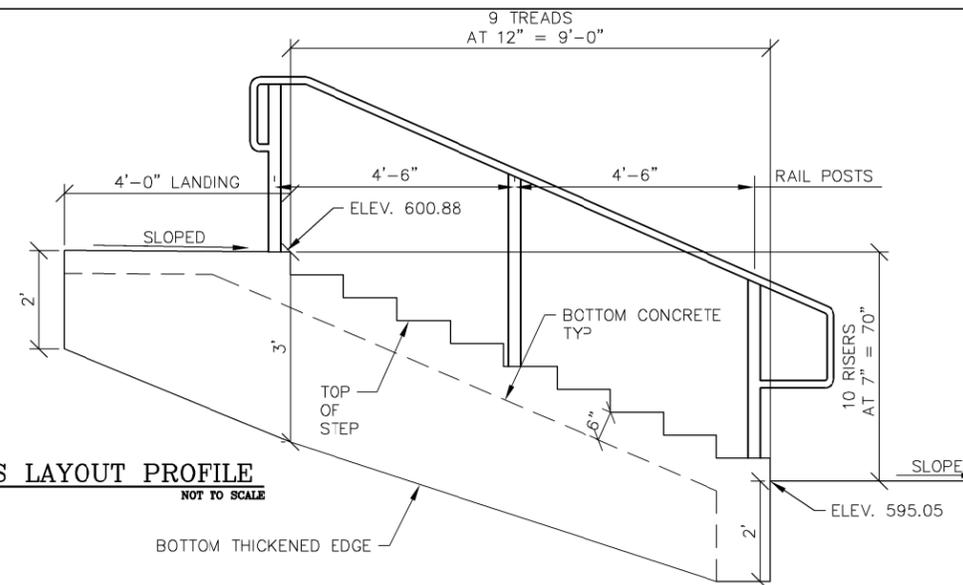
**RAILING NOTES:**

THE STEEL PIPE RAILING IS TO BE BID ON LINEAL FOOT BASIS MEASURED END TO END OF RAIL. THE PRICE BID FOR "ORNAMENTAL METAL RAILING" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, INCLUDING ANCHOR BOLTS AND SHIMS, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

THE MATERIAL FOR TUBE RAILS, POSTS AND SPLICE TUBES SHALL BE STANDARD STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, TYPE E OR S, GRADE B. BASE PLATES AND SHIMS SHALL MEET THE REQUIREMENTS OF ASTM A-36 AND SHALL BE GALVANIZED, AFTER FABRICATION, IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A-123.

END OF RAIL SECTIONS ARE TO BE SAWED OR MILLED. ALL CUT ENDS ARE TO BE TRUE, SMOOTH, AND FREE OF BURRS OR RAGGED EDGES. ALL CORNERS TO BE MITERED JOINTS. NO PAINTING WILL BE REQUIRED.

THE STUD CONCRETE ANCHORS SHALL BE STAINLESS STEEL AND HAVE A MINIMUM PULL OUT STRENGTH OF 3,000 POUNDS BASED ON 4,000 PSI CONCRETE.

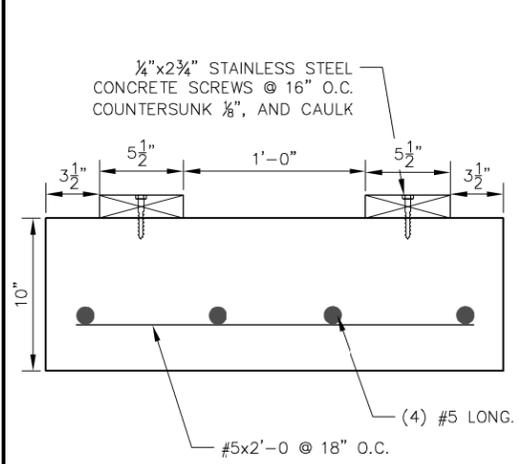
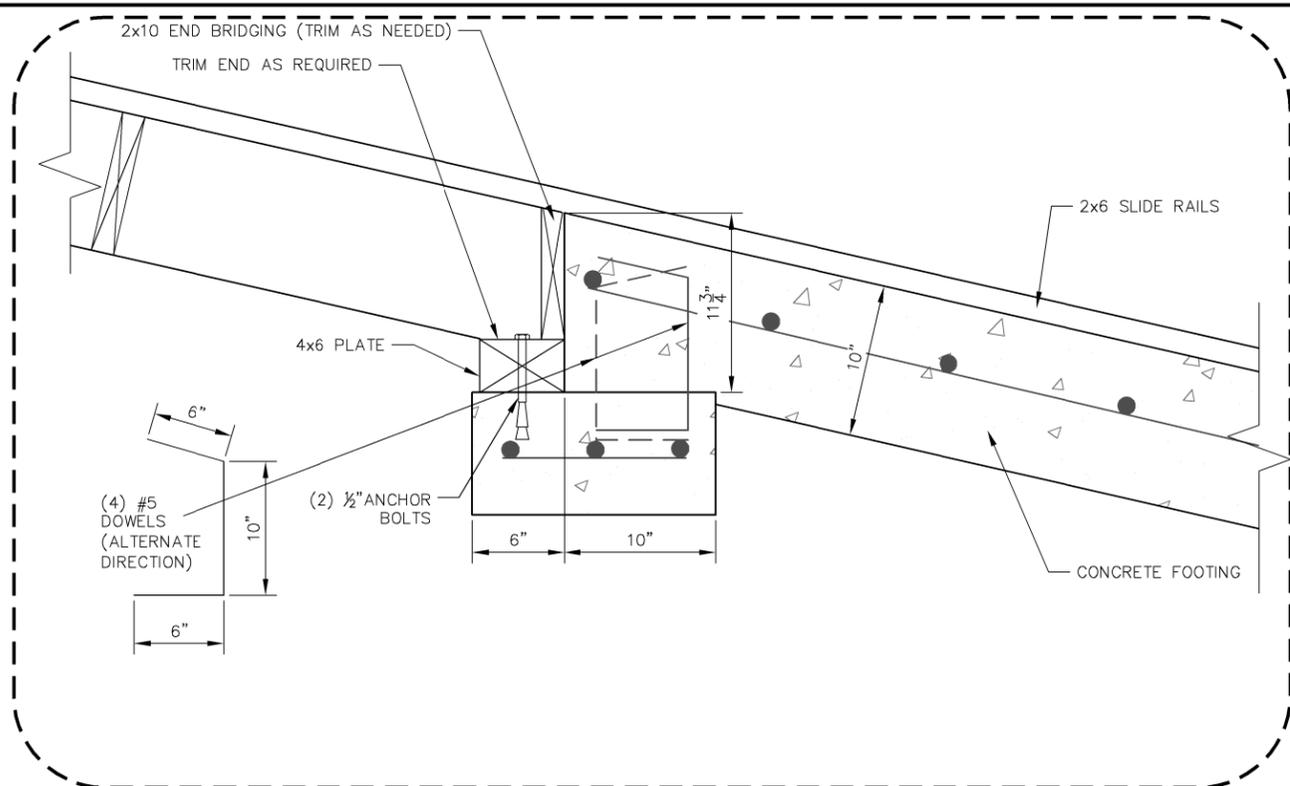
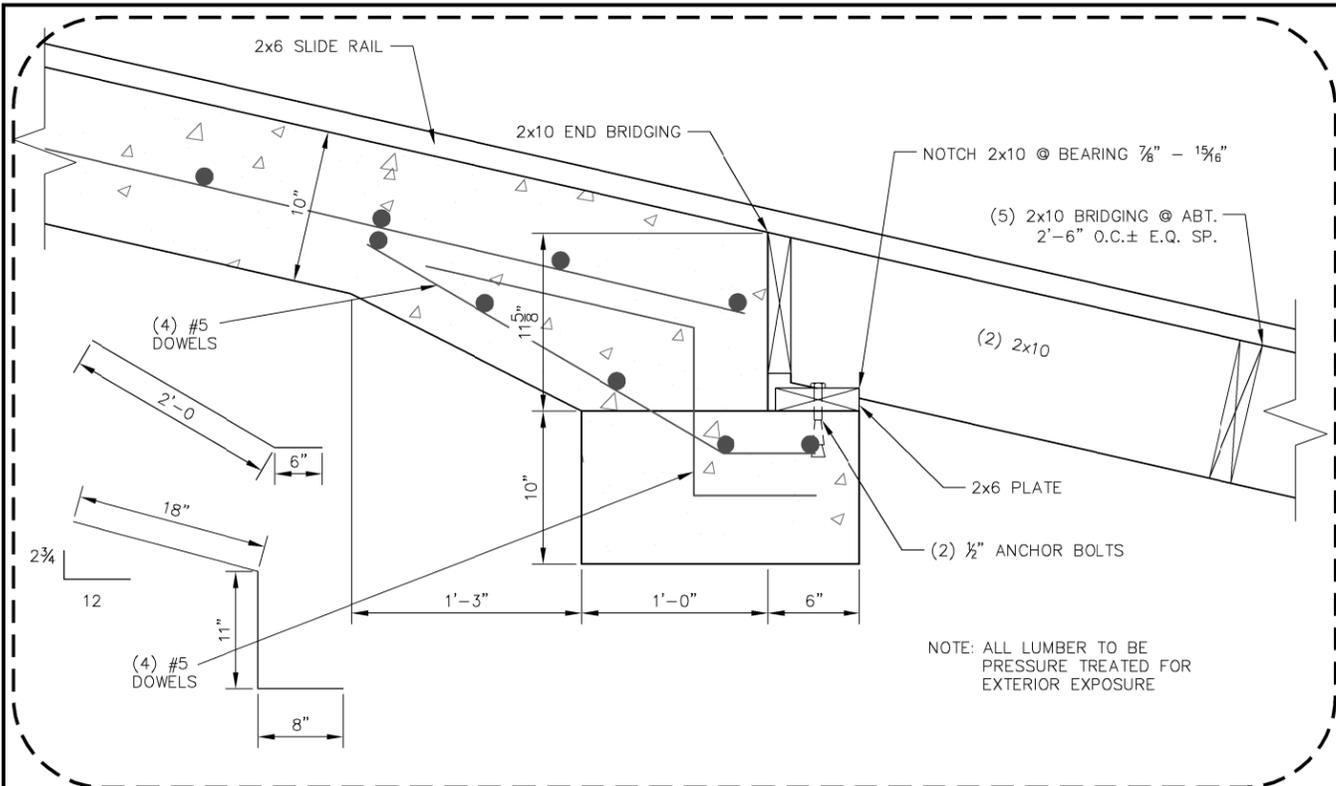


**18 STAIRS LAYOUT PROFILE**  
 C6.03 NOT TO SCALE

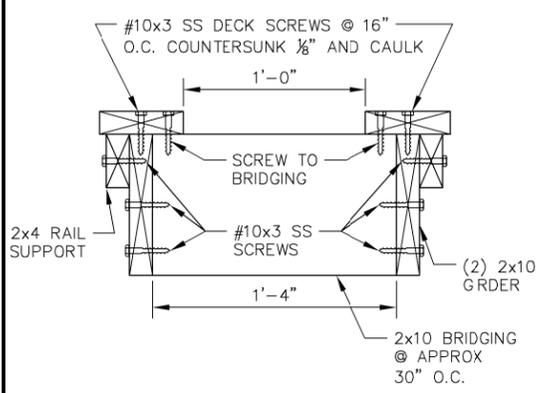
Project Description: CANOE AND KAYAK LAUNCH - 2015

Rev	Date	By	Description

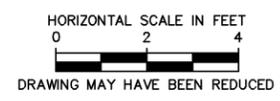
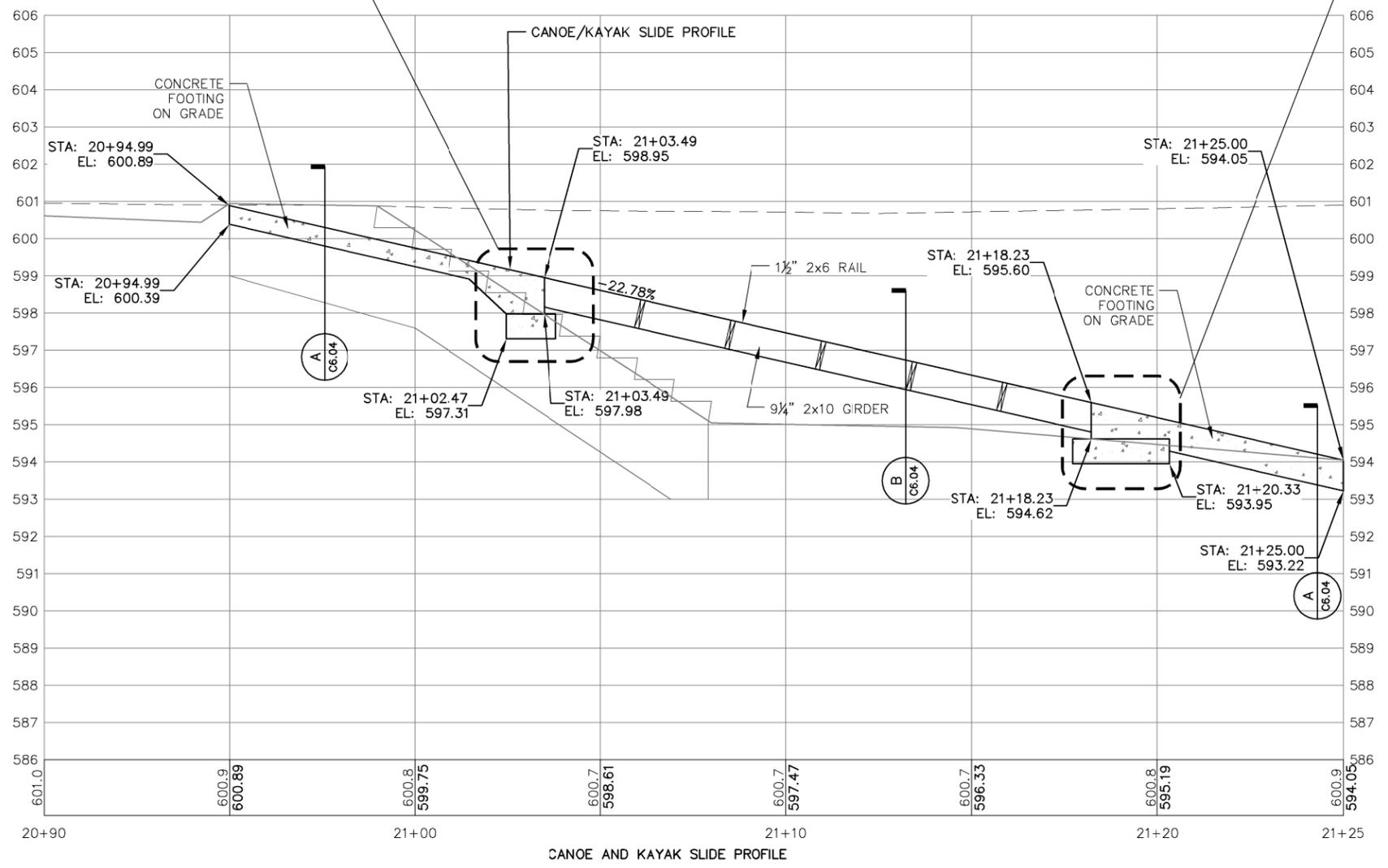
Drawing Issue Information  
 Project Mgr: JPN  
 Issued For Bidding: ..  
 Drawn By: CANOE AND KAYAK LAUNCH - 2015  
 Issued For Construction: ..



**A**  
C6.04  
**KAYAK SLIDE AT GRADE**  
NOT TO SCALE



**B**  
C6.04  
**KAYAK SLIDE ABOVE GRADE**  
NOT TO SCALE



**CANOE & KAYAK SLIDE  
PROFILE AND DETAILS**

GALENA RIVER  
CANOE AND KAYAK LAUNCH - 2015  
CITY OF GALENA, ILLINOIS

Rev	Description	Date	By

**SITE LAYOUT PLAN**

GALENA RIVER  
 CANOE AND KAYAK LAUNCH - 2015  
 CITY OF GALENA, ILLINOIS

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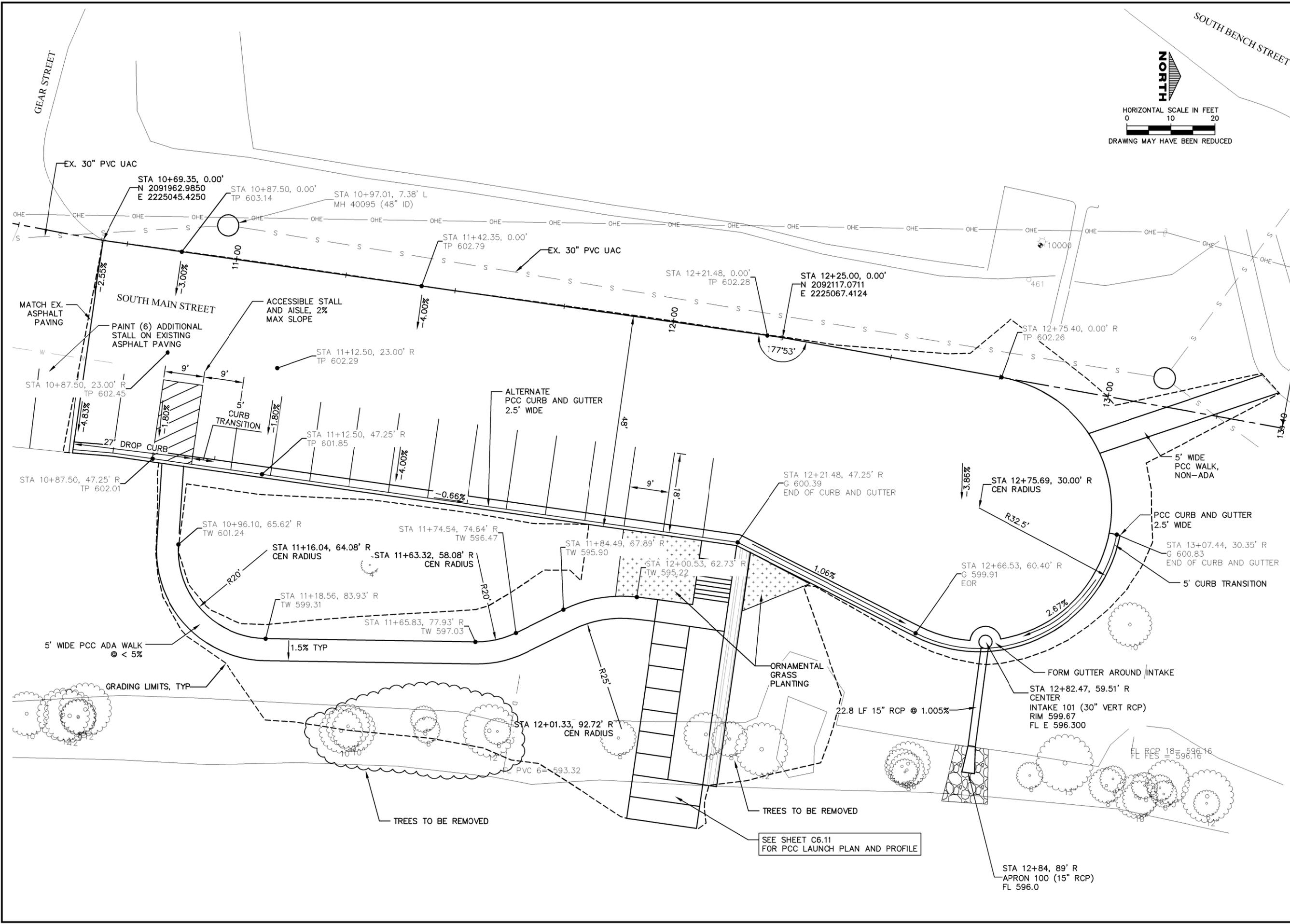
Project Description

Rev	Date	Description

Sheet No:

**C6.10**

Project No: 15033



SEE SHEET C6.11  
 FOR PCC LAUNCH PLAN AND PROFILE

STA 12+84, 89' R  
 APRON 100 (15" RCP)  
 FL 596.0

STA 12+82.47, 59.51' R  
 CENTER  
 INTAKE 101 (30" VERT RCP)  
 RIM 599.67  
 FL E 596.300

22.8 LF 15" RCP @ 1.005%

FL RCP 18" = 596.16  
 FL PES = 596.16

ORNAMENTAL  
 GRASS  
 PLANTING

TREES TO BE REMOVED

TREES TO BE REMOVED

GRADING LIMITS, TYP

5' WIDE PCC ADA WALK  
 @ < 5%

1.5% TYP

STA 10+96.10, 65.62' R  
 TW 601.24

STA 11+16.04, 64.08' R  
 CEN RADIUS

STA 11+63.32, 58.08' R  
 CEN RADIUS

STA 11+18.56, 83.93' R  
 TW 599.31

STA 11+65.83, 77.93' R  
 TW 597.03

STA 11+74.54, 74.64' R  
 TW 596.47

STA 11+84.49, 67.89' R  
 TW 595.90

STA 12+00.53, 62.73' R  
 TW 595.22

STA 12+21.48, 47.25' R  
 G 600.39  
 END OF CURB AND GUTTER

STA 12+75.69, 30.00' R  
 CEN RADIUS

PCC CURB AND GUTTER  
 2.5' WIDE

STA 13+07.44, 30.35' R  
 G 600.83  
 END OF CURB AND GUTTER

5' CURB TRANSITION

5' WIDE  
 PCC WALK,  
 NON-ADA

ALTERNATE  
 PCC CURB AND GUTTER  
 2.5' WIDE

STA 11+12.50, 23.00' R  
 TP 602.29

STA 11+12.50, 47.25' R  
 TP 601.85

STA 11+42.35, 0.00'  
 TP 602.79

STA 12+25.00, 0.00'  
 N 2092117.0711  
 E 2225067.4124

STA 12+21.48, 0.00'  
 TP 602.28

STA 12+75.40, 0.00' R  
 TP 602.26

SOUTH MAIN STREET

PAINT (6) ADDITIONAL  
 STALL ON EXISTING  
 ASPHALT PAVING

ACCESSIBLE STALL  
 AND AISLE, 2%  
 MAX SLOPE

5' CURB  
 TRANSITION

27' DROP CURB

4.83%

STA 10+87.50, 47.25' R  
 TP 602.01

4.83%

1.80%

9'

9'

4.00%

4.00%

4.00%

4.00%

4.00%

4.00%

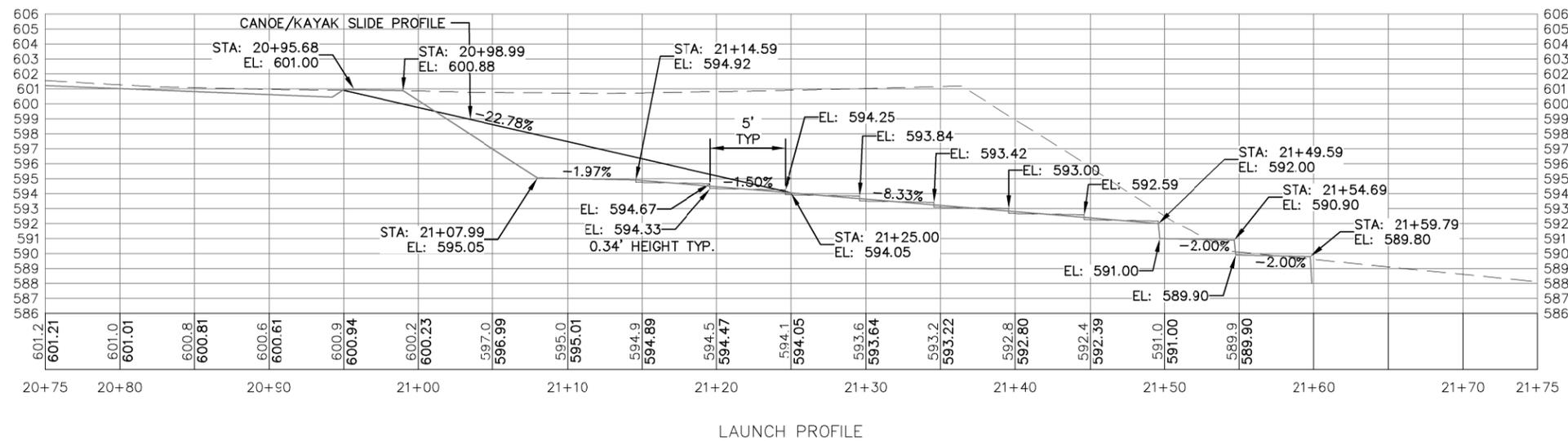
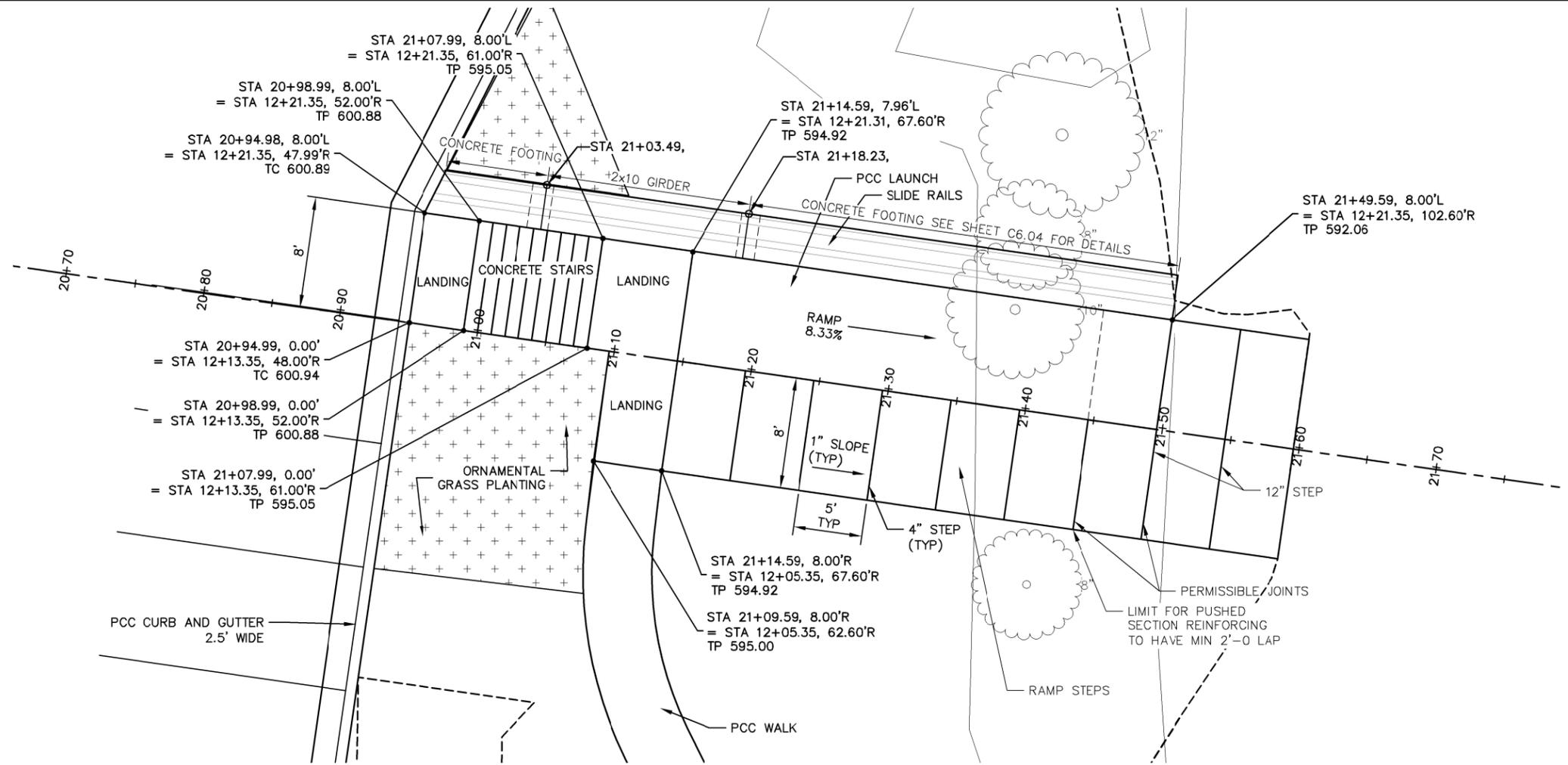
4.00%

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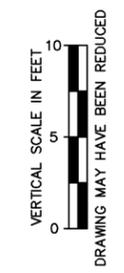
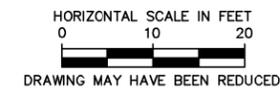
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LAUNCH & STEP LAYOUT  
 LAUNCH-STEP LAYOUT

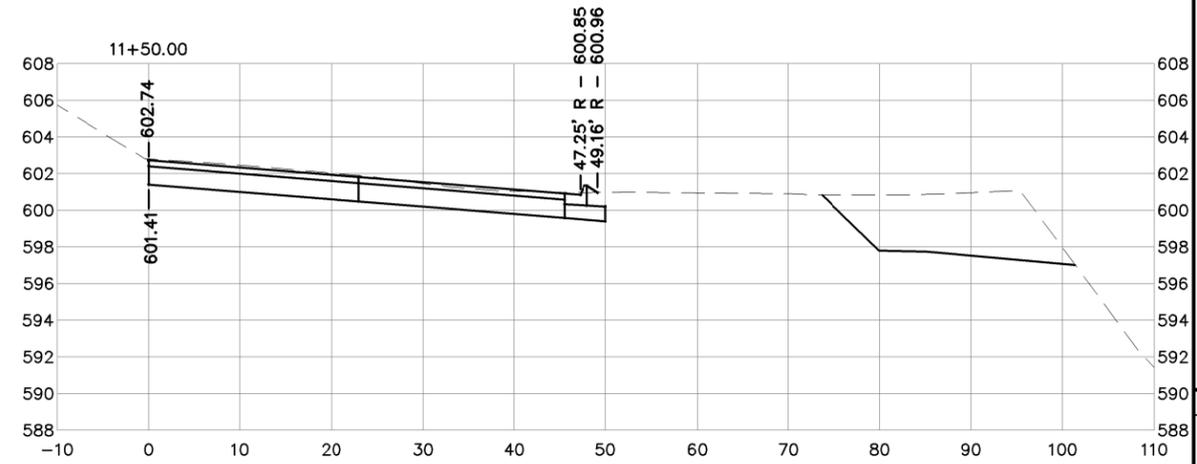
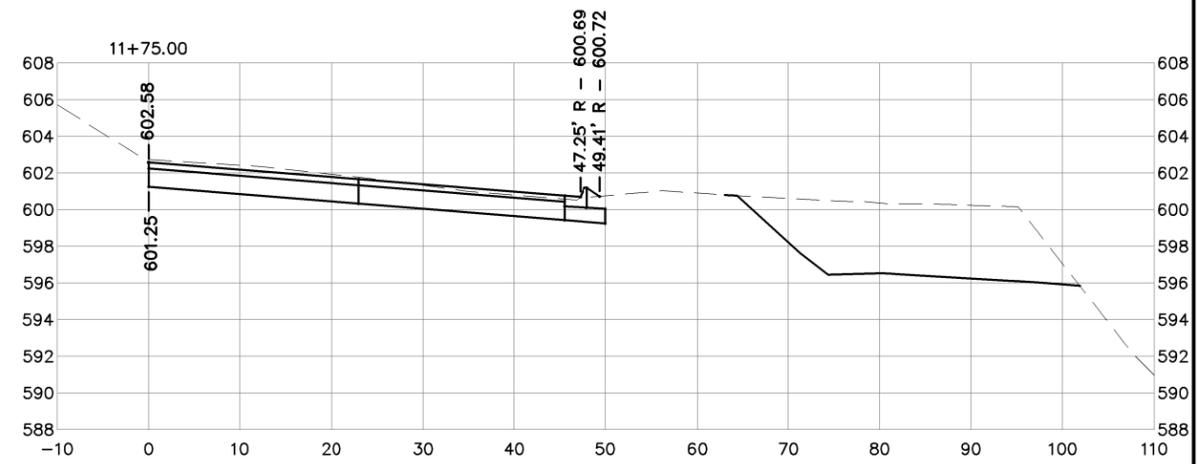
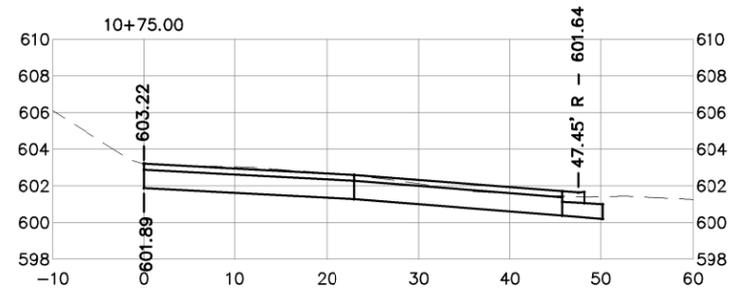
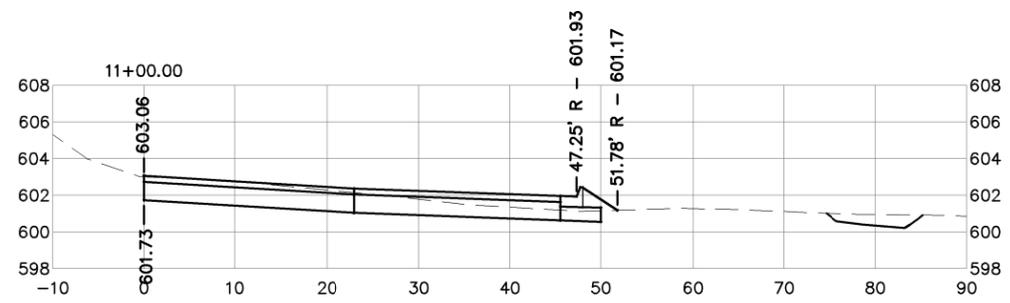
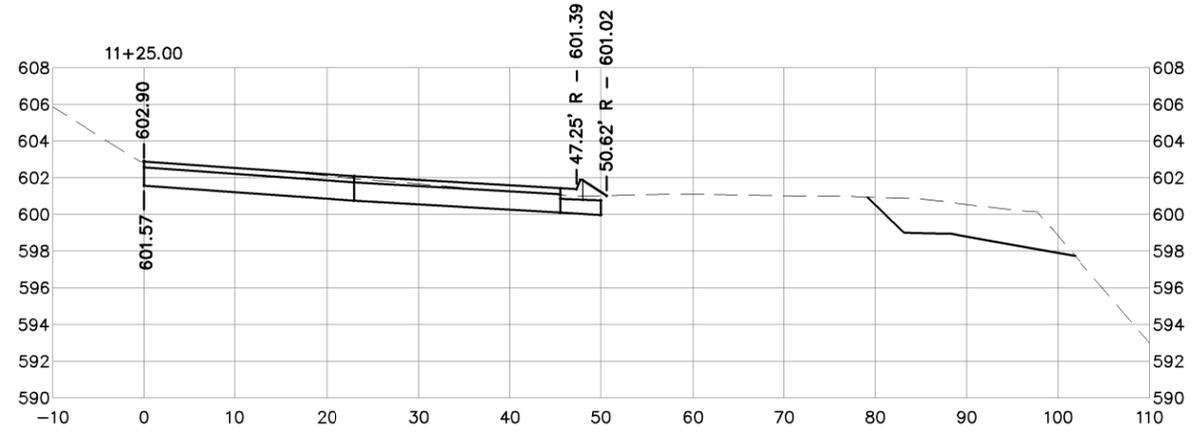
GALENA RIVER  
 CANOE AND KAYAK LAUNCH - 2015  
 CITY OF GALENA, ILLINOIS

Rev	Description	Date	By

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CROSS SECTIONS

SHEET TITLE 3  
 GALENA RIVER  
 CANOE AND KAYAK LAUNCH - 2015  
 CITY OF GALENA, ILLINOIS

Project Description

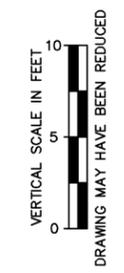
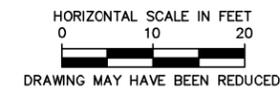
Rev	Description	Date	By

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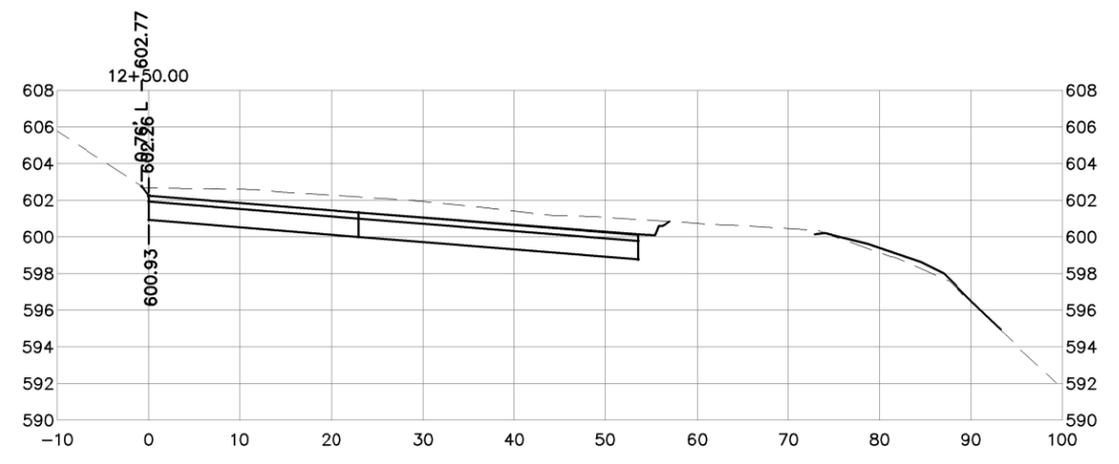
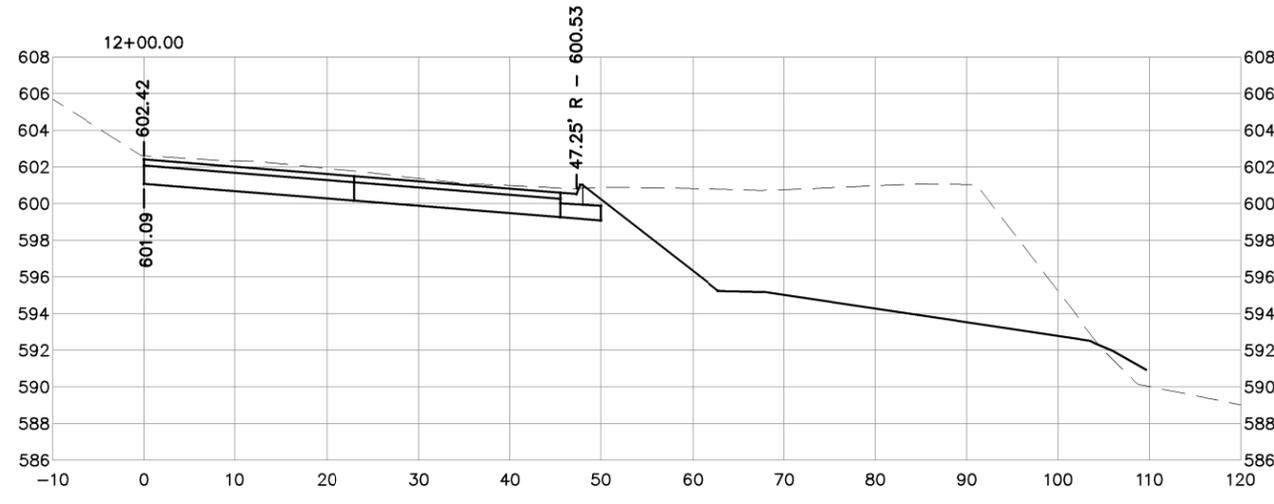
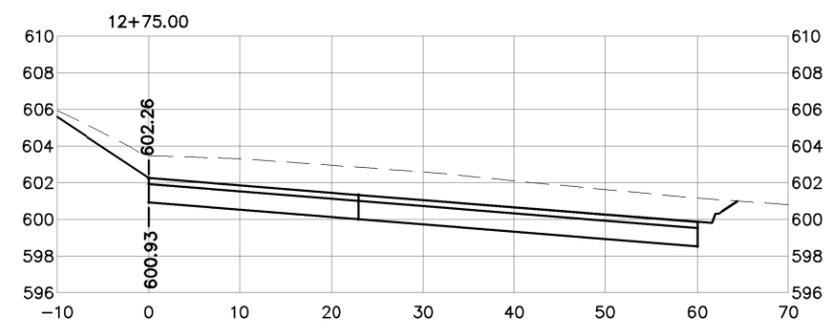
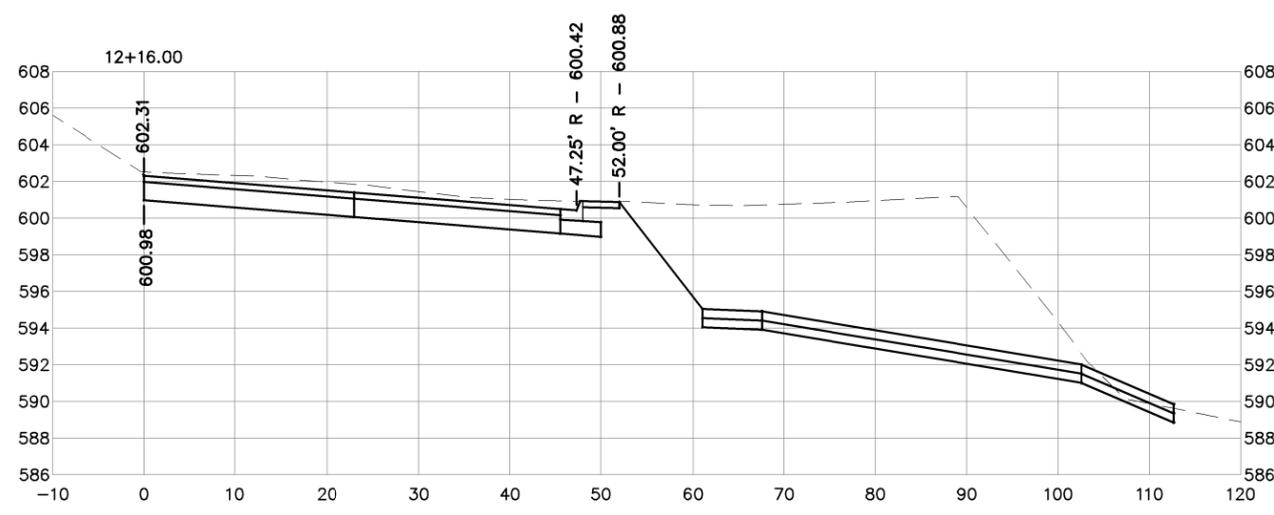
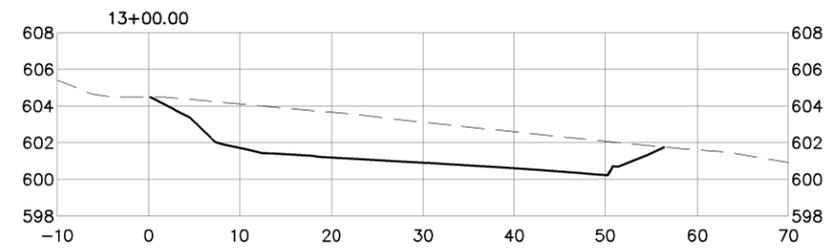
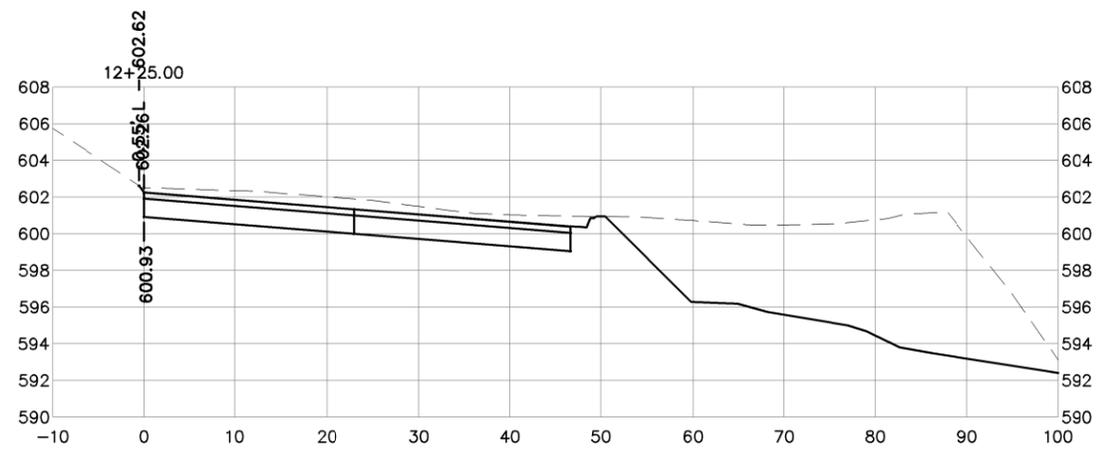
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Project Description

Rev	Description	Date	By

Sheet No:

**C11.02**

Project No: 15033

Drawing Issue Information

Project Mgr: JPN  
 Issued For Bidding: ..  
 Drawn By: ..  
 Issued For Construction: ..