

ADDENDUM NO. 3

Project:

VOL. 1 & 2

REYNOLDSBURG CITY SCHOOLS
L.F.O. ATHLETIC & ECO LAB PROJECTS

7244 East Main Street
Reynoldsburg, OH 43068

REYNOLDSBURG CITY SCHOOLS
REYNOLDSBURG, OHIO

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Addendum No. 3:

PART 1 - PROJECT MANUAL
PART 2 – DRAWINGS
PART 3 - ATTACHMENTS

Total Number of Pages: 34

Date: **March 31, 2011**

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect under the Laws of the State of Ohio:

Moody Nolan, Inc.
300 Spruce St. Suite 300
Columbus, OH 43215
(614) 461-4664
(614) 280-8881
Brent Wilcox, Project Manager

TO: ALL PLANHOLDERS OF RECORD

Addendum No. 3 to the Drawings and Project Manual, dated **March 17, 2011**, for **L.F.O. ATHLETIC & ECO LAB PROJECTS**, Reynoldsburg City Schools, 7244 East Main Street, Reynoldsburg, Ohio 43068; as prepared by Moody Nolan, Inc., 300 Spruce St. Suite 300, Columbus, OH 43215.

This Addendum shall hereby be done and become part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each Bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum.

PART 1 - PROJECT MANUAL:

Item 1-1 **SPECIFICATIONS DIVISIONS 0-13: SECTION 08 33 13, COILING COUNTER DOOR**
REVISE: Part 2.01C

Description: Non-label self-contained counter shutter. Face-of-wall mounting, size indicated.

1. Operation: Manual push-up.
2. Curtain: 20 gage stainless steel, flat-faced interlocking slats fitted with endlocks to hold curtain in place.
3. Guides: Extruded aluminum. Extend above to head as support for Hood.
4. Bottom Bar: Provided with lift handle, two slide bolt locks and continuous vinyl countertop seal.
5. Counterbalance: Manufacturer's standard adjustable helical torsion spring, mounted around steel shaft in barrel.
6. Finish: Satin.

Item 1-2 **SPECIFICATIONS DIVISIONS 21-33:SECTION 31 25 00 EROSION AND SEDIMENT CONTROL**

ADD: Part 1 GENERAL

"E. Provide goose exclusion fencing at eco-lab"

Item 1-3 **SPECIFICATIONS DIVISIONS 21-33:SECTION 31 25 00 EROSION AND SEDIMENT CONTROL**

ADD: Part 2 PRODUCTS
2.06 ECOLAB WATER CONTROL STRUCTURE

“A. Inline water control structure by Agri-Drain”

Item 1-4 SPECIFICATIONS DIVISIONS 21-33:SECTION 31 25 00 EROSION AND SEDIMENT CONTROL

ADD: Part 3 EXECUTION

“3.05 GOOSE EXCLUSION FENCING

- A. Physical barriers should be installed immediately after planting of the wetland. It is best if the barrier is left up until vegetation has matured and reached six to 12 inches in height.
- B. Multiple lengths of fence will be installed stretching from one end of the site to the other. The fence rows should be ten feet apart.
- C. Fence posts shall be three to four-foot long sections of rebar, fiberglass, or wooden stakes. Fencing material shall be snow fence, safety fence, bird netting, or fishing line or thin wire.
- D. Posts shall be spaced five feet apart and shall be driven six inches into the ground.
- E. Fencing material shall be attached to the posts with zip ties at four inches above the ground and again at the top of the fencing material. If fishing line or thin wire is used, three strands shall be strung between the posts spaced four inches, eight inches, and 12 inches above the ground.
- F. Keep the strands tight. If the line is allowed to sag (as is common with fishing line), the geese will walk through or over it.
- G. Do not leave any openings in the barrier or the geese will walk through the opening.”

Item 1-5 SPECIFICATIONS DIVISIONS 21-33:SECTION 31 25 00 EROSION AND SEDIMENT CONTROL

ADD: Part 3 EXECUTION

3.05 INSTALLATION-WATER CONTROL DEVICE

“D. Leave all boards in place for later adjustment”

PART 2 - DRAWINGS:

Item 2-1 General – Livingston Ave.

- a. All site fencing and gates are in this contract, including fencing and gates within the Bleacher Contractor work limits.
- b. Remove Item 2-11 from Addendum No. 2, that references to add coded note 7 to existing building on northeast side of track, this building is not being removed.

Item 2-2 General – Livingston Ave. and Baldwin Ave. Sites **Electrical** General Note

If building alternate(s) are accepted - where 480V power is provided, adjacent to building(s), provide the following:

- a. 60 amp disconnect at 480 volt 40-50 amp 15 KVA transformer for 175 amp available service to new building(s).

- Item 2-3 Drawing CI0.2
REVISE Coded Note 3 to: Existing Trailers to be removed by others. Coordinate removal with C.M.
- Item 2-4 Drawing CI1.3
ADD fence connection between the two existing fences, see sketch C-SK01.
- Item 2-5 Drawing CI1.4
REVISE Alternate Bid text, see sketch C-SK02.
- Item 2-6 Drawing CI1.5
ADD fence and gates, add Coded Notes 4 & 5, revise Coded Note 2. See sketch C-SK03.
- Item 2-7 Drawing CI1.6
ADD new drawing Signage Plan
- Item 2-8 Drawing CI2.1
ADD basin overflow weir callouts and details, see sketches C-SK07 & C-SK08.
- Item 2-9 Drawing CI3.1
ADD pavement repair areas, add Coded Note 8, revise Coded Note 1. See sketches C-SK04 & C-SK05.
- Item 2-10 Drawing CI5.3
REVISE Detail 15 Release Structure, see sketch C-SK06.
- Item 2-11 Drawing Cs1.2
REVISE location and size of Pipe Double Swing Gate, see sketch C-SK13.
- Item 2-12 Drawing Cs1.3
REMOVE coded note 7 callout from softball plan. Revise Tennis Court Surface to By Owner. Revise Coded Note 9. See sketch C-SK11.
- Item 2-13 Drawing Cs2.1
REISSUE sheet.
- Item 2-14 Drawing Cs2.1
Coded note 3
DELETE "Rated for 40 to 50 GPM @"
ADD "See specifications for pump sizing"
- Item 2-15 Drawing Cs2.2
ADD riparian vernal pool, see sketch C-SK12.
ADD topsoil stockpile and spoil area, see sketch C-SK15.
- Item 2-16 Drawing Cs4.1
a. **ADD** Pipe Gate Detail, see sketch C-SK14.
b. **REVISE** Detail 7 Quick Coupler Detail, see sketch C-SK16.

PART 3 - CLARIFICATIONS:

The following questions / RFI's have been received. The responses in italics follow the original question/RFI:

- 1) Contractor Question; Can you clarify the fencing requirements for our scope in particular sheet CI 1.2?

All site fencing and gates are in this contract, including fencing and gates within the Bleacher Contractor work limits.

- 2) Contractor Question; The bleacher contractor work and what is required of us with regards to the fencing is confusing. In one area the fence would start on our side of the line then enter the bleacher contractor work limits and then re-enter our work area. I wouldn't imagine that this is the intent?

All site fencing and gates are in this contract, including fencing and gates within the Bleacher Contractor work limits.

- 3) On pg. CI3.1 Manhole #1 is shown over an existing 18" pipes and is called out a MH5. is this to be a Doghouse Style Manhole?

Yes.

- 4) Are we responsible for removing the trailers shown on drawing C10.2 (volume 1)? Are we responsible for the fence shown at the bottom of sheet CS1.1 and extending onto sheet CS1.2? (Volume 1) Please clarify what is required for the base under the prefab buildings? Concrete, stone?

Trailers will be removed by others. Yes, for fencing shown on Cs1.1 and Cs1.2. Base under buildings per manufacturer for selected building type.

- 5) After speaking to the specified suppliers of the pre-fabricated buildings for the Reynoldsburg Athletic and Eco Lab project, we have found that lead times can be as long as 90 days. The Romtec building will be 6-8 weeks, and the CXT building will be at least 90 days. This presents a potential scheduling issue with the current project dates. Notice to proceed is on 4/20/11 and maximum schedule duration is only 90 days. Please advise.

The milestone dates in the contract documents will not be changed. However once under contract and if the owner decides to select the alternate, the completion date for the (2) prefabricated/pre-engineered buildings will be modified accordingly . The contractor is still responsible for completing all other work as stated in the contract documents by the specified milestones.

PART 4 - ATTACHMENTS:

Sketches (8 ½ x 11):

C-SK01
C-SK02
C-SK03
C-SK04
C-SK05
C-SK06
C-SK07
C-SK08
C-SK11
C-SK12
C-SK13
C-SK14
C-SK15
C-SK16

Full Sheets:

CI1.6,
Cs2.1
C1.10
C1.20

Specification Sections:

32 80 00 Irrigation Systems
33 21 00 Water Supply Well

**SECTION 32 80 00
IRRIGATION SYSTEMS**

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section Includes:

1. Pipe and fittings.
2. Cam-Lock Fittings.
3. Control system and connection to electrical supply.
4. Trenching, installation of system and connection to water source; testing and backfilling.
5. Water Wheel
6. Pump, Sled, and Pressure Tank

1.2 SYSTEM DESCRIPTION

A. Design Requirements:

1. Complete irrigation system including trenching and backfilling for all pipes, valves and drain pits, providing pipes, fittings, valves, controllers, electric wiring, and necessary specialties and accessories.
2. Sleeves beneath parking areas, walkways, roads, and driveways where required.

1.3 PROJECT CONDITIONS

A. Existing Utilities:

1. Locate and identifying existing utilities. Notify Construction Manager of any conflicts which affect the approved irrigation layout.

B. Obstructions Below Grade:

1. If obstructions such as rock or underground construction work are encountered in any irrigation excavation work, alternate locations will be selected. Where locations cannot be changed, remove obstruction. The obstruction shall be removed to a depth of not less than 3 feet below grade.

C. Damage by Leaks:

1. Be responsible for damages to the grounds, plants, walks, roads, building piping system, electrical systems, and their equipment and contents caused by leaks in piping systems being installed or having been installed. Repair damages so caused at no additional cost.

1.4 WARRANTY

- A. Repair any settling of backfilled trenches which may occur during the warranty period.
- B. Restore and all damaged plantings, paving, or improvements within the warranty period.
- C. Materials and equipment shall be warranted in writing against defects in materials and workmanship by the respective manufacturers. All installation work shall be guaranteed for two years after final acceptance.
- D. No claims under warranty shall be considered for materials damaged or destroyed by vandals or damages caused by unauthorized operation of the system.

1.5 MAINTENANCE TOOLS

- A. Provide 2 five foot keys for operation of gate valves.

PART 2 - PRODUCTS

2.1 PIPE AND PIPE FITTINGS

- A. Irrigation Mains:
 - 1. Pipe: ASTM D 1784, PVC Class-200, SDR-21, 260 psi maximum.
 - 2. Joint: ASTM D 2241 bell end type.
 - 3. Fittings: Schedule 40, ASTM D 2466 solvent cement type.

2.2 VALVES

- A. Gate Valves:
 - 1. 2 1/2 Inch and Smaller: Type 1, class 150 psi, threaded ends.

2.5 WATER WHEEL

- A. Water Wheel: Water wheel shall be Kipco Model T-180 with Sime Hydra Sprinkler. Water wheel to be delivered to the owner at the completion of project.

2.6 VALVE BOXES

- A. Valve Boxes: Subject to compliance with requirements, manufacturers offering specified items which may be incorporated in the work include the following.
 - 1. Ametek, Plymouth Products Division, Sheboygan, WI (414) 457-9435, Superflexon Valve Box "No. 10-170-001" with cover No. "10-173-004", with pentagon (1) locking device.
- B. Product Requirements: Product options and substitutions. Substitutions: Permitted.

2.7 CAM LOCK FITTINGS

- A. Cam Lock Fittings: Supply Cam Lock fittings for s
- B. Mount quick coupling valves on 1 ½" inch galvanized triple swing joints. All swing joints are to be assembled using two to three wraps of Teflon tape.

2.8 PUMP AND PUMP SLED

- A. Sled mounted submersible pump.
 - 1. Pump sized to provide 70 GPM @ 130 psi.

2.9 PUMP CONTROL

- A. Post Mounted Pump Control Panel
 - 1. Lockable Stainless Steel NEMA 4X Enclosure

3.0 PRESSURE TANK

- A. Pressure Tank
 - 1. Sized to match supplied pump.
 - 2. Rated for outdoor use.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Layout and stake locations of system components.
- B. Review layout requirements with other affected work. Coordinate locations of sleeves under paving to accommodate system.

3.2 INSTALLATION

- A. Sequencing:

1. Install sleeves under roads & pavement prior to commencement of paving.
 2. Install sprinkler system after completion of site grading.
- B. Minimum Cover Below Finished Grade:
1. Mains: Not less than 24 inches.
- C. Trench Width: Not less than 6 inches.
- D. Install underground piping so that it is not in contact with concrete, existing piping or other hard objects. Provide a minimum clearance of 2 inches between piping and hard object.
- E. Thrust Blocks: Concrete thrust blocks shall be provided on the thrust side of mains.
- F. Backfill: Excavation and Fill.
1. Material shall not contain brick, rock, lumber or organic materials subject to decomposing.
 2. Trenches, after backfilling, shall be water filled and settled to prevent after settling.
 3. Level with finished grade.
 4. After backfilling and water settling, soil, around pop-up heads shall be tamped and heads left level with grade and plumb.
- G. Piping Installation:
1. Install plastic pipe in a manner to provide for expansion and contraction.
 2. Cut plastic pipe with a hand saw. Ensure a square cut. Remove burrs at cut ends prior to installation.
 3. Plastic to plastic joints shall be solvent-welded. Solvent compatible with pipe and able to withstand specified pressure requirements.
 4. Solvent Welded Joints:
 - a. Thoroughly clean pipe and fitting with all purpose primer/cleaner and clean dry cloth.
 - b. Apply a uniform coat of solvent to the outside of the pipe.
 - c. Apply solvent to the fitting.
 - d. Re-apply a light coat of solvent to the pipe and quickly insert into the fitting.
 - e. Give the pipe or fitting a quarter turn to ensure even distribution of the solvent and make sure the pipe is inserted to the full depth of the fitting socket.
 - f. Hold in position for 15 seconds.
 - g. Wipe off excess solvent that appears at the outer shoulder of the fitting.

- h. Allow joints to set at least 24 hours before pressure is applied to the system.

H. Valves:

- 1. Manual Valves: Install manual valves in a valve box extending from grade to valve body, with minimum of 4 inch cover measured from grade to top of valve stem.

I. Quick Coupler/Cam Lock:

- 1. Install plumb to within 1/16 inch.

3.3 FIELD QUALITY CONTROL

A. Quality Control: Field testing and inspection.

B. Inspection:

- 1. Trenching.
- 2. Pressure supply line installation and testing.

C. Testing and Flushing

1. Flushing:

- a. After all piping, risers, and valves are in place and connected, but prior to installation of yard hydrant assemblies, and hose valves, thoroughly flush piping system under a full head of water.
- b. Maintain flushing for 3 minutes though furthestmost valve.

2. Testing:

- a. Test all pressure lines under hydrostatic pressure of 150 pounds per square inch. Prove water tightness.
- b. Testing of pressure main lines shall occur prior to installation of electric control valves.
- c. Sustain pressure in lines for not less than 2 hours. If leaks develop, replace joints and repeat test until entire system has been accepted.
- d. Furnish force pump and accessory test equipment.

3.4 SYSTEM OPERATION AND ACCEPTANCE

A. Operation:

- 1. Operate the completed system for the Construction Manager inspection.

B. Instruction:

1. Instruct Reynoldsburg Schools personnel in complete operation and maintenance of the irrigation system including winterization of system.

END OF SECTION

SECTION 33 21 00

WATER SUPPLY WELL

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Work Included: Work of this section includes, but is not limited to:
 - 1. Water Well
 - 2. Obtain and pay for plumbing permits, inspection fees, and other governmental fees applicable. File necessary drawings and specifications.
 - 3. Comply with Ohio EPA and Ohio Division of Natural Resources minimum standards.

1.02 RELATED SECTIONS

- A. Excavation and Backfill: Section 31 30 00.
- B. Cast-In-Place Concrete: Section 03 30 00.

1.03 REFERENCED STANDARDS

- A. Ohio Division of Natural Resources "Technical Guidance for Well Construction and Groundwater Protection"
 - 1. Coordinate work of this Division with all Civil, and Electrical Drawings.

1.04 Contractor Qualifications

- A. Contractor shall be a licensed well driller familiar with the local area.

1.05 PERMITS

- A. Department of Health
 - 1. Permits: The contractor is responsible for obtaining the required permitting from the local health department for installation of the well and related appurtenances.
 - 2. Fees: The contractor is responsible for permitting fees associated with well and water service installation.

1.06 SUBMITTALS

- A. Conform completely to the requirements of the General Conditions and Section 01 33 23.
- B. Reference Standards
- C. Special Guarantees and Warranties
- D. Installer Certification
- E. Material Certification
- F. Test Reports: Provide 2 copies of test reports certified by an independent testing agency.
- G. As-Built Drawings: Indicate deviations from original Construction Documents. Include all buried, concealed utility services, dimensioned from a fixed control point, including depth of bury.
- H. Manufacturer's Product Data: Submit for the following:
 - 1. Casing Pipe
 - 2. Pump
 - 3. Pipe and Appurtenances
 - 4. Pond Level Sensor/Pump Control

1.07 DELIVERY, STORAGE AND HANDLING

- A. Conform to the manufacturer's recommendations and instructions.
- B. Defective Materials
 - 1. Examine piping, fittings and specials to be installed and reject those which are defective or in poor condition.
 - 2. Remove all items which are found to be defective after installation.

1.08 CAPACITY REQUIREMENT

- A. Water Flow = 50 GPM Max Flow

PART 2 PRODUCTS

2.01 WELL CASING

- A. Steel Casing
 - 1. Min. wall thickness .188 in.
 - 2. Meet ASTM standards A53, A106, or A589 and API Specification 5C

- B PVC Casing
 - 1. Min. wall thickness equivalent to SDR 21
 - 2. Meet ANSI/NSF Standard 14
 - C Joints
 - 1. Structurally sound, uniform, and water tight
 - D Liners
 - 1. Watertight per NSF Standard 61
 - 2. SDR 26 Minimum
 - E. Grout
 - 1. Bentonite or Neat Cement meeting ANSI/NSF Standard 61
- 2.02 PUMP
- A. Of sufficient size to supply required water demand.
- 2.03 SENSOR AND CONTROL
- A. Pond level sensor and well pump control as required to maintain pond water level. Pond fill activation level=1053.0, Off level=1056.0. Final setting of level controls to be coordinated with architect.

PART 3 EXECUTION

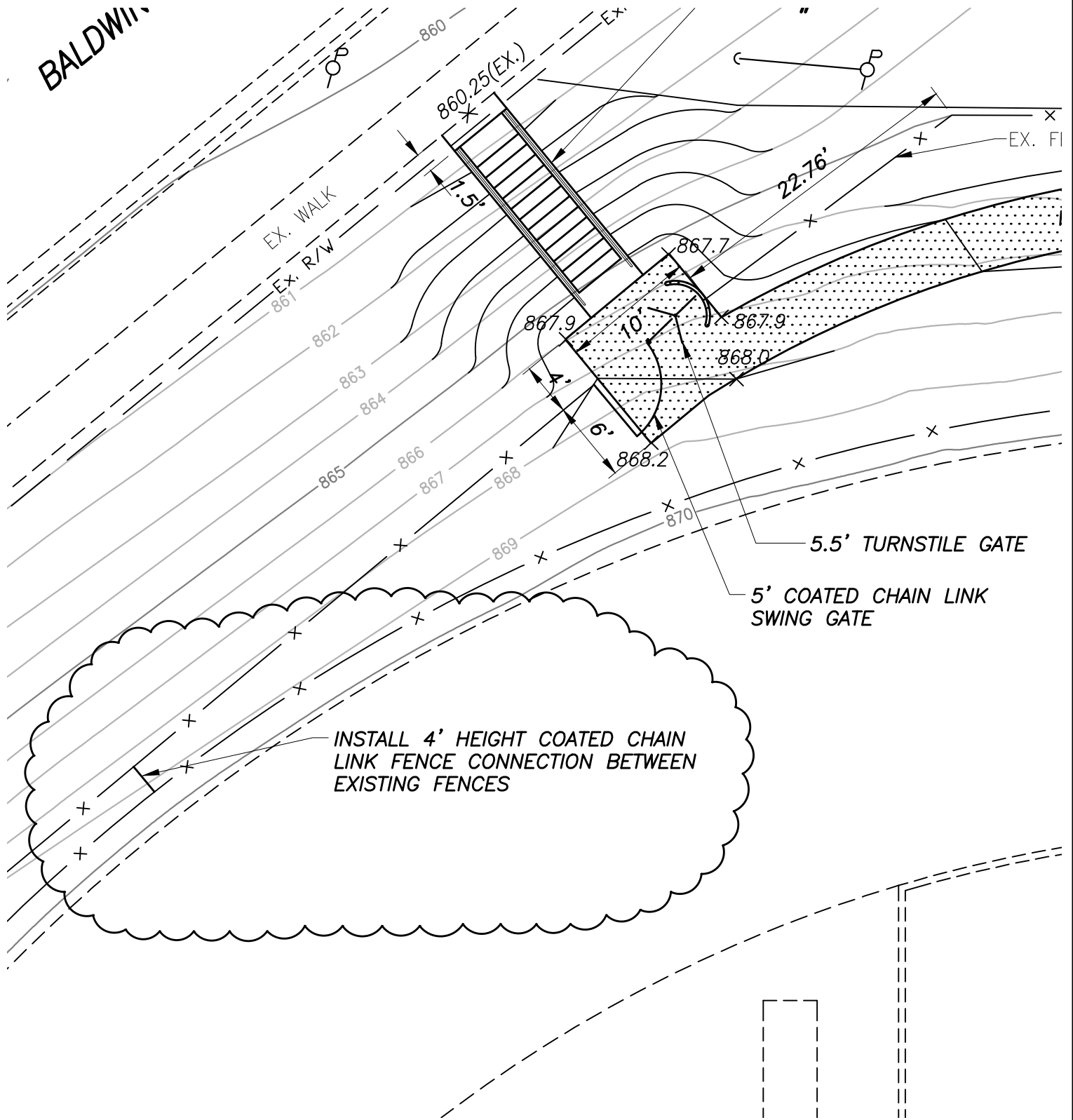
- 3.01 Well Drilling and Installation
- A. Locate new well as indicated on plans.
 - B. Install well, casing, lines, and required pumps and controls.

PART 4 TESTING AND DISINFECTION

- 4.01 TESTING
- A. General: The following tests are minimum requirements:
 - 1. Provide all materials and equipment necessary to perform tests.
 - B. Capacity
 - 1. ODNR Approved Method

END OF SECTION

BALDWIN



INSTALL 4' HEIGHT COATED CHAIN
LINK FENCE CONNECTION BETWEEN
EXISTING FENCES

5.5' TURNSTILE GATE

5' COATED CHAIN LINK
SWING GATE

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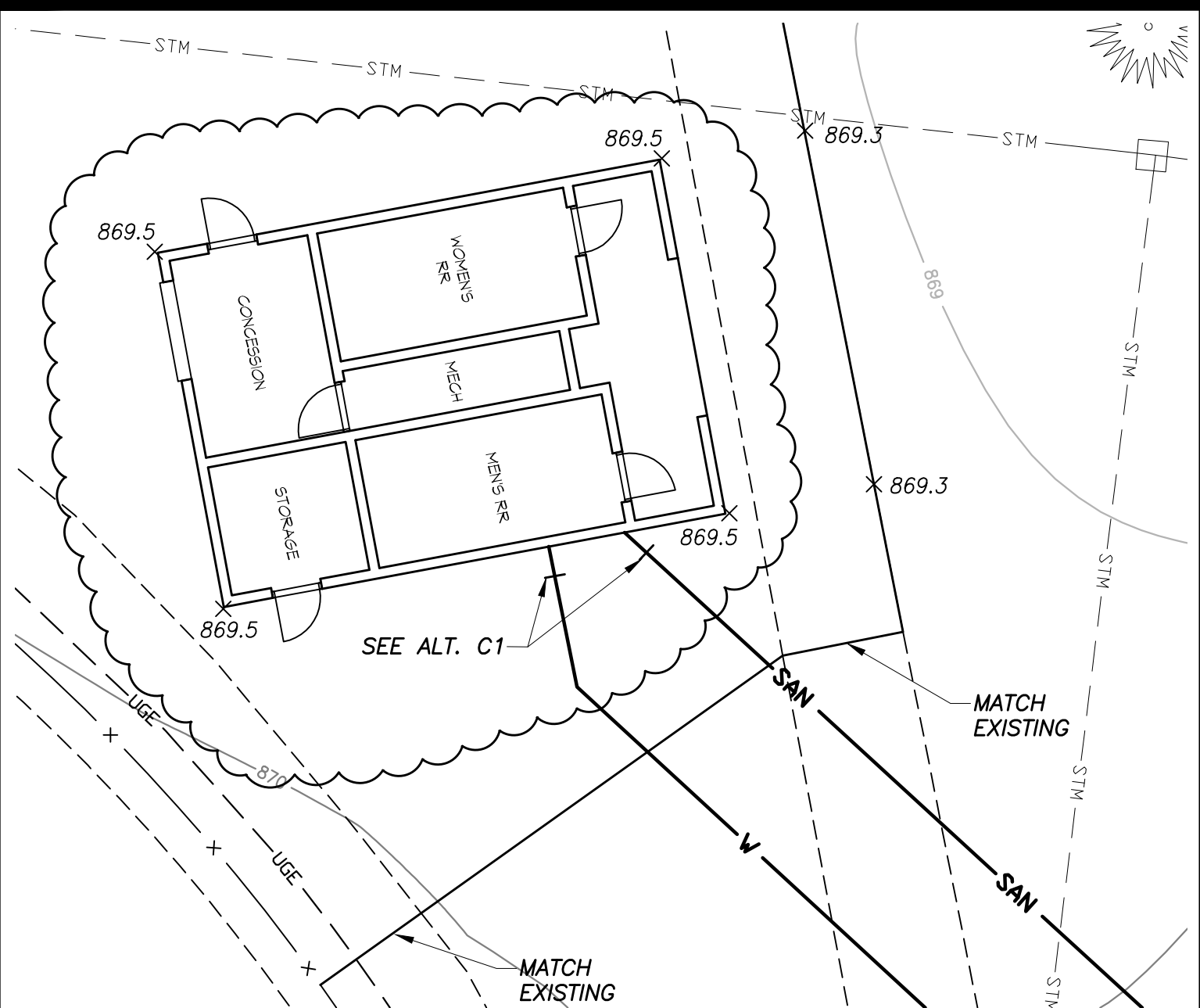
6899 E. Livingston Avenue
Reynoldsburg, Ohio 43068

ISSUED WITH ADDENDUM 3	SHEET REVISED C11.3
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SKETCH NUMBER

C-SK01

PROJ# 08177.1	DRAWN BY MAB	DATE 3/30/11
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SEE ALT. C1

MATCH EXISTING

MATCH EXISTING

- ALTERNATE BID:**
- A1 - 26'-0"x31'-0" PRE-FABRICATED BUILDING
 - A2 - 26'-0"x34'-6" PRE-FABRICATED BUILDING
 - B1 - 26'-0"x31'-0" SIERRA III PRE-ENGINEERED BUILDING
 - B1 - 26'-0"x34'-6" SIERRA IV PRE-ENGINEERED BUILDING
 - C1 - PROVIDE LABOR AND MATERIAL FOR CONCRETE PAVING WITH AGGREGATE BASE IN UNFILLED BUILDING AREA TO MATCH ADJACENT. CAP PROPOSED WATER AND SANITARY.

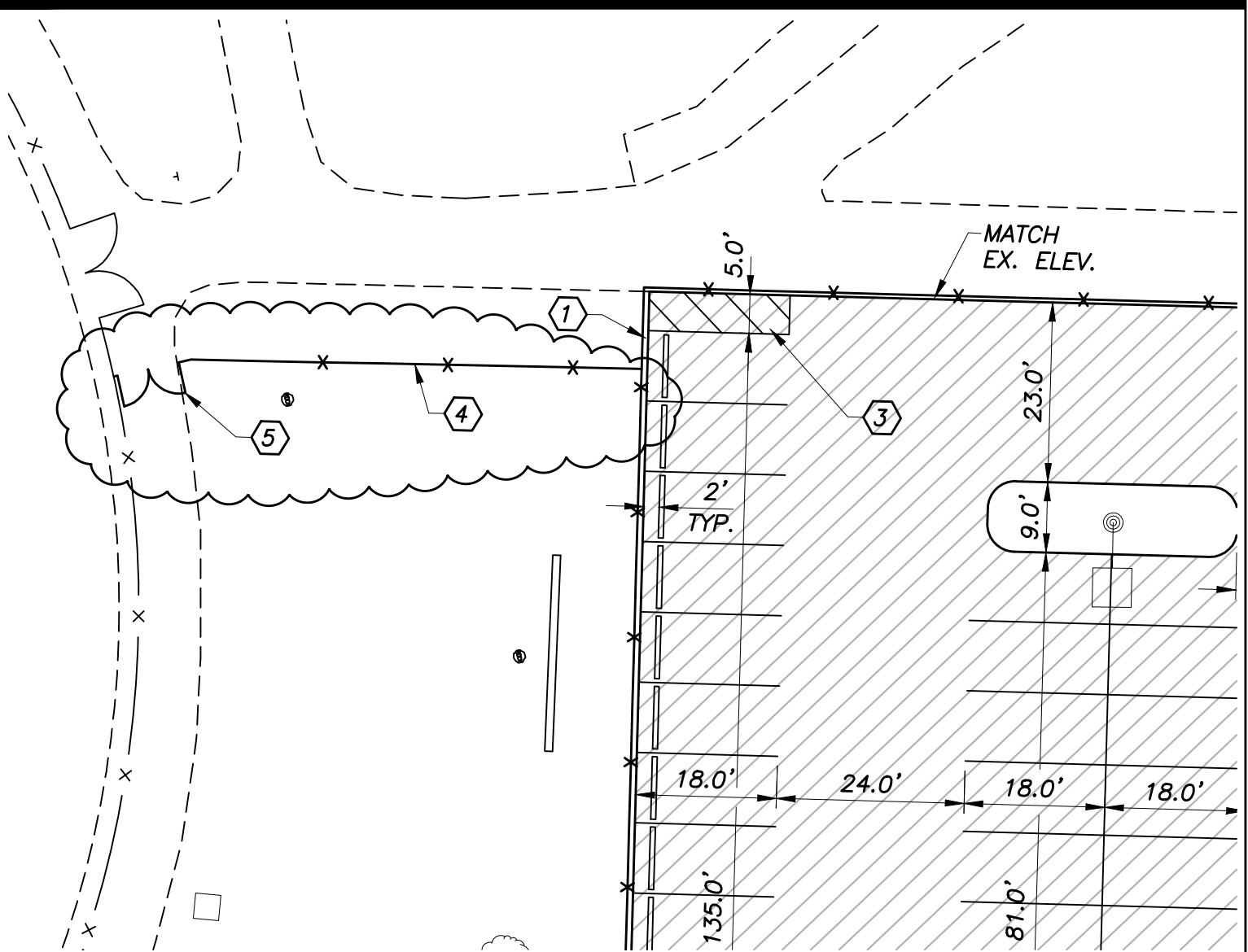
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ISSUED WITH ADDENDUM 3	SHEET REVISED C11.4
SKETCH NUMBER C-SK02	
PROJ # 081TT.I	DRAWN BY MAB
DATE 3/30/11	



CODED NOTES

- ① 6' HEIGHT COATED CHAIN LINK FENCE
- ② 10' HEIGHT GREEN COATED CHAIN LINK FENCE
- ③ TRANSVERSE LINE, 4" WHITE, 3' SPACING FOR CROSSWALKS AND ISLANDS
- ④ 4' HEIGHT COATED CHAIN LINK FENCE
- ⑤ 4' COATED CHAIN LINK DOUBLE SWING GATE

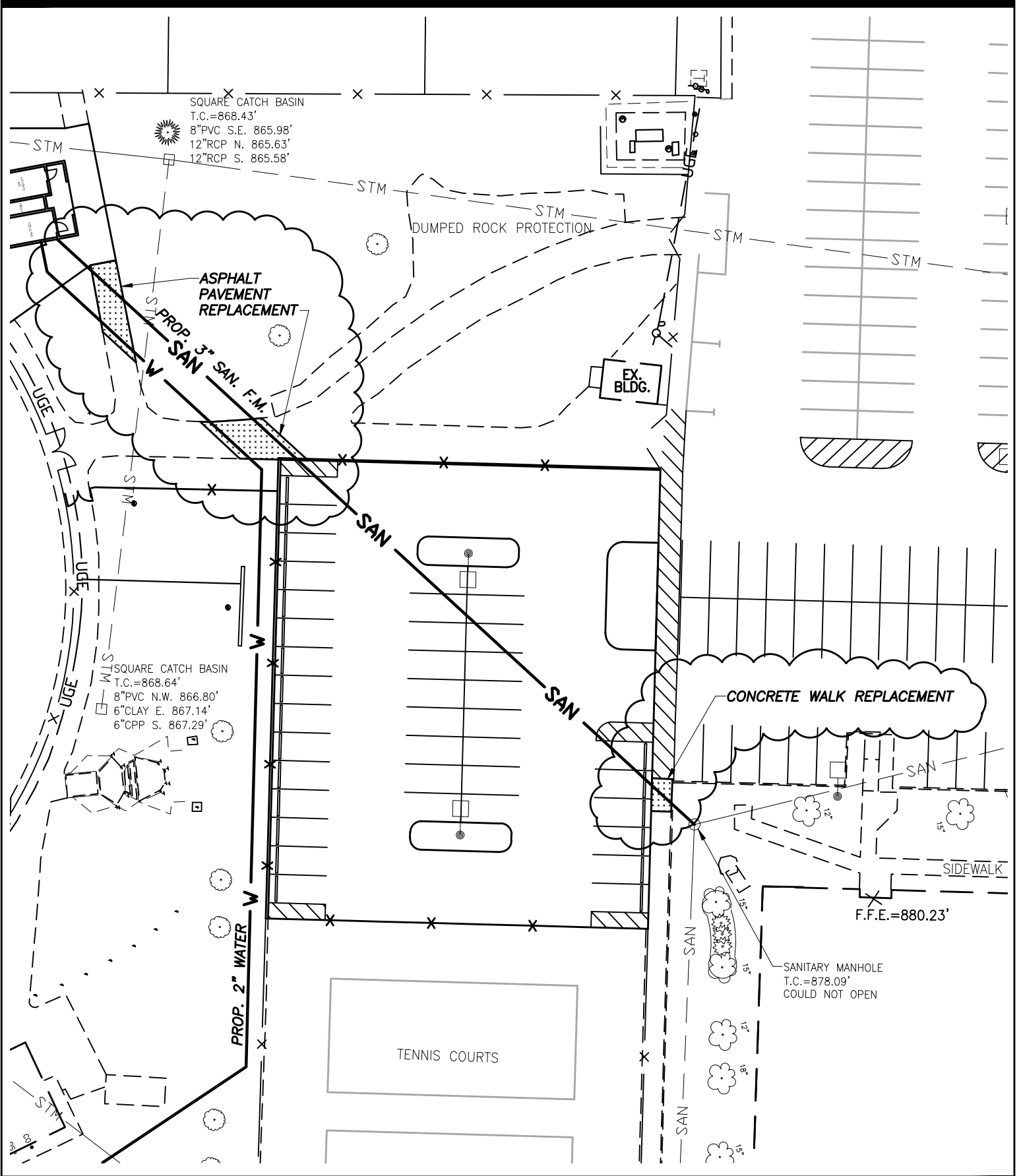
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ISSUED WITH ADDENDUM 3	SHEET REVISED C11.5
SKETCH NUMBER C-SK03	
PROJ# 081TT.1	DRAWN BY MAB
DATE 3/30/11	



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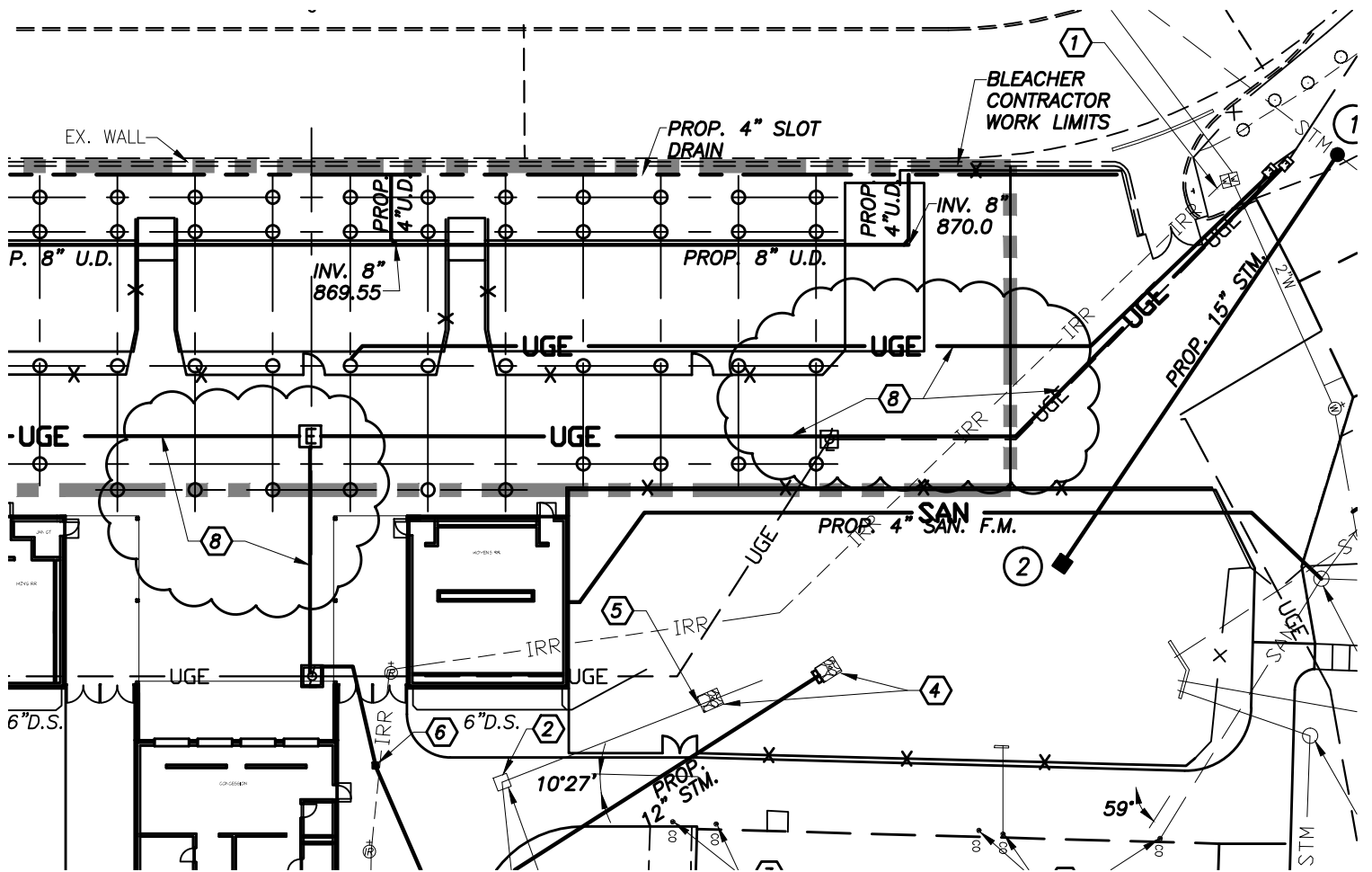
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ISSUED WITH ADDENDUM 3	SHEET REVISED CI3.1
SKETCH NUMBER C-SK04	
PROJ # 08177.1	DRAWN BY MAB
DATE 3/30/11	



CODED NOTES

- ① STARTING POINT FOR PRACTICE FIELD IRRIGATION SYSTEM. RE-ROUTE IRRIGATION TO PRACTICE FIELD SOUTH OF THE NEW PARKING LOT & INTO NEW STORAGE ROOM, PROVIDE ALL NECESSARY PIPING AND FITTINGS.
- ② EXISTING CATCH BASIN TO BE ADJUSTED TO GRADE, NEW T.C. ELEV. 874.7
- ③ EXISTING CLEANOUTS TO BE ADJUSTED TO GRADE, PROVIDE NEW FRAME AND LID AS NEEDED.
- ④ 5'x4'x18" ROCK CHANNEL PROTECTION, TYPE C WITH FILTER.
- ⑤ REMOVE EXISTING 12" STORM PIPE BACK TO PROPOSED GRADE 872.6
- ⑥ DRAIN BASIN T.C. = 873.75
4" W & 6" E INV. = 872.0
- ⑦ EXISTING 8" STORM TO BE ABANDONED.
- ⑧ PROPOSED UNDERGROUND ELECTRIC BY OTHERS.

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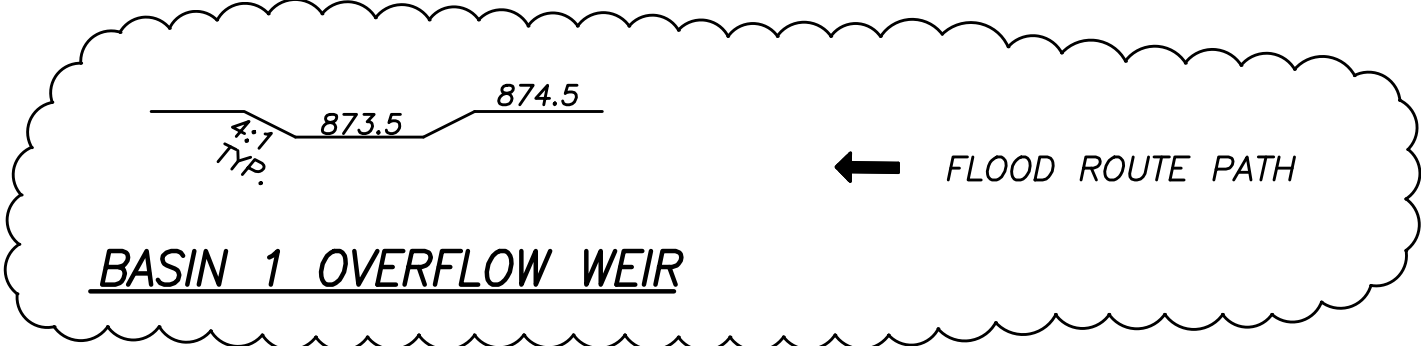
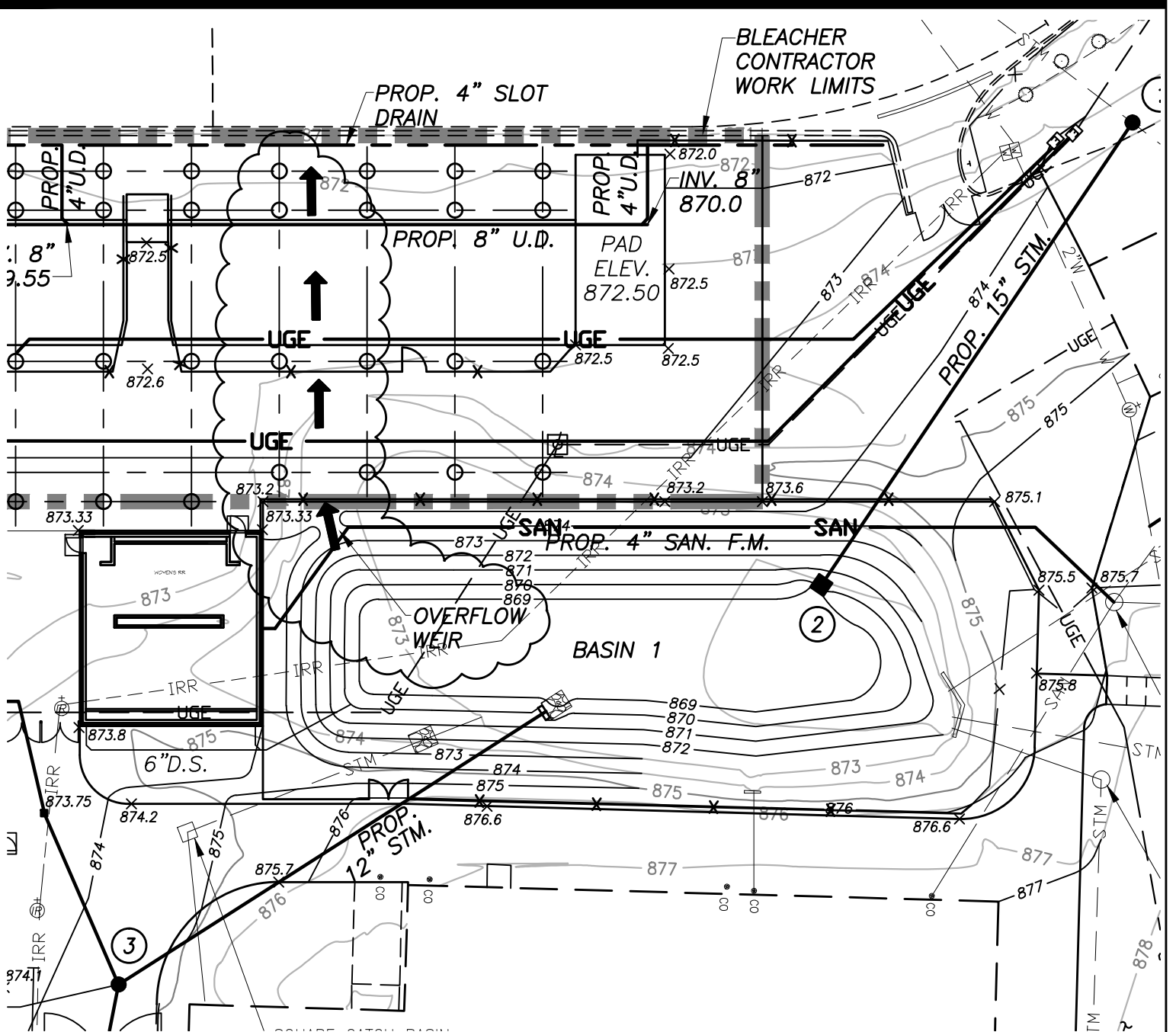
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ISSUED WITH ADDENDUM 3	SHEET REVISED CI3.1
SKETCH NUMBER C-SK05	
PROJ # 08177.1	DRAWN BY MAB
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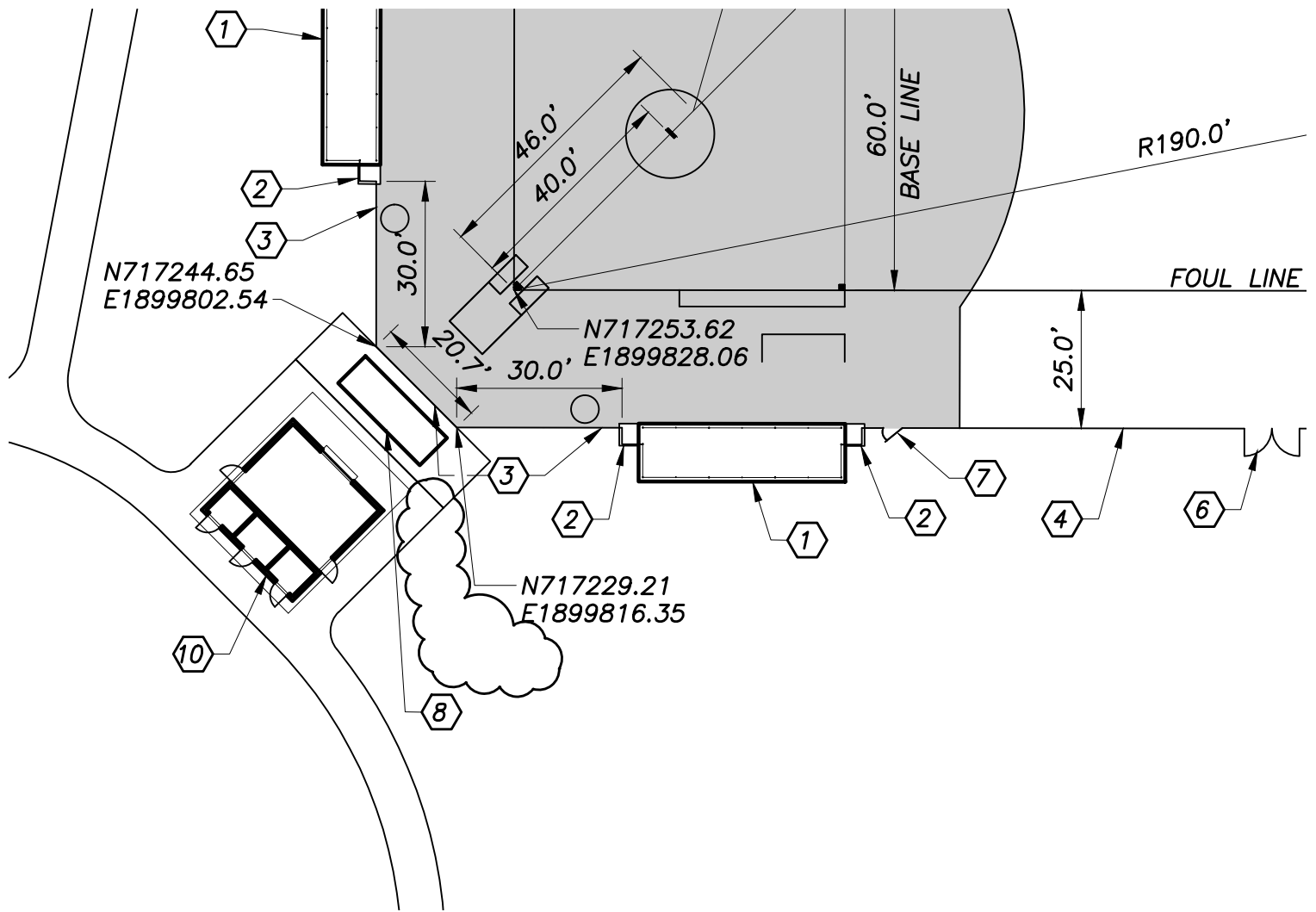
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ISSUED WITH ADDENDUM 3	SHEET REVISED CI2.1
SKETCH NUMBER C-SK07	
PROJ# 081TT.1	DRAWN BY MAB
DATE 3/30/11	



LEGEND



INFIELD SOIL MIX, SEE SPECIFICATIONS



TENNIS COURT SURFACE, BY OWNER

- ⑤ 3' COATED CHAIN LINK DOUBLE SWING GATE
- ⑥ 5' COATED CHAIN LINK DOUBLE SWING GATE
- ⑦ 3' COATED CHAIN LINK SINGLE SWING GATE
- ⑧ BLEACHERS, SEE ARCHITECTURAL PLANS, SHEET Af1.1
- ⑨ 10' GREEN COATED CHAIN LINK FENCE, POSTS TO BE CORE DRILLED
- ⑩ CONCESSION BUILDING, SEE ARCHITECTURAL PLANS, SHEET Ad1.1

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NEW SUMMIT ROAD L.F.O.
ATHLETIC & ECO LAB PROJECTS
REYNOLDSBURG CITY SCHOOLS

8579 Summit Road
Reynoldsburg, Ohio 43068

ISSUED WITH
ADDENDUM 3

SHEET REVISED
Cs1.3

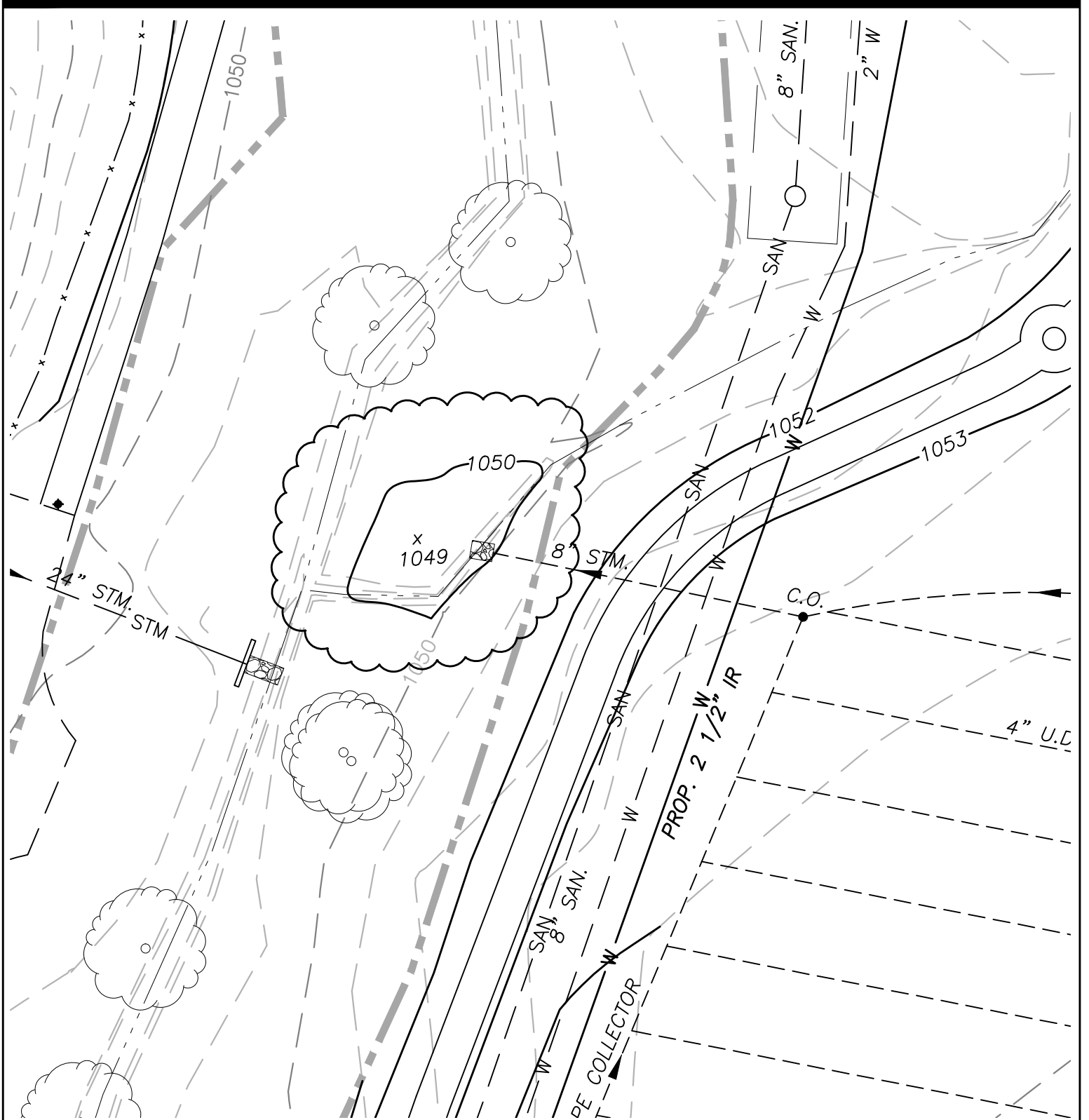
SKETCH NUMBER

C-SK11

PROJ #
081TT.3

DRAWN BY
MAB

DATE
3/30/11



MOODY·NOLAN, INC.

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300 Spruce Street
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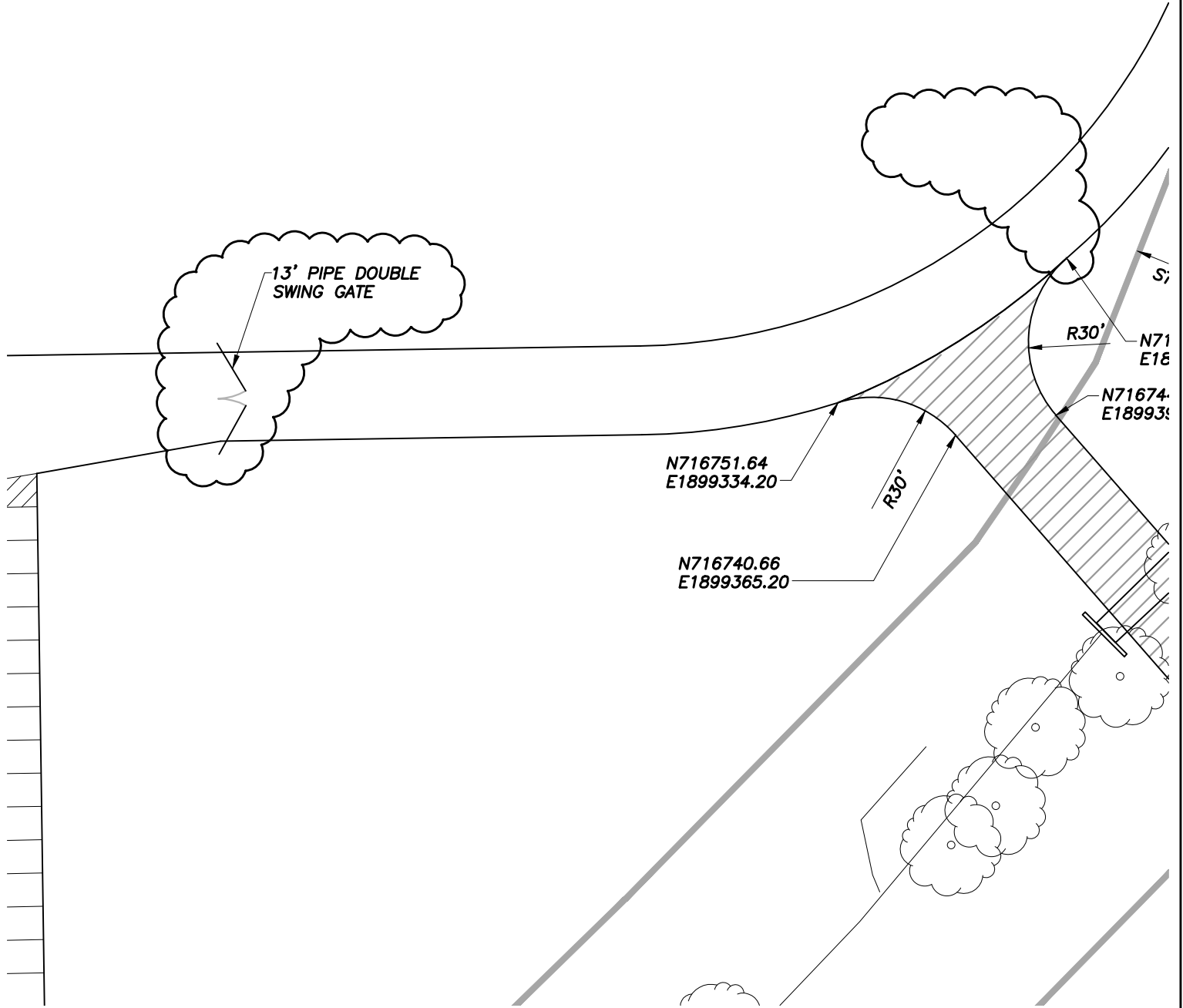
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ISSUED WITH ADDENDUM 3	SHEET REVISED Cs2.2
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SKETCH NUMBER C-SK12

PROJ# 08177.3	DRAWN BY MAB	DATE 3/30/11
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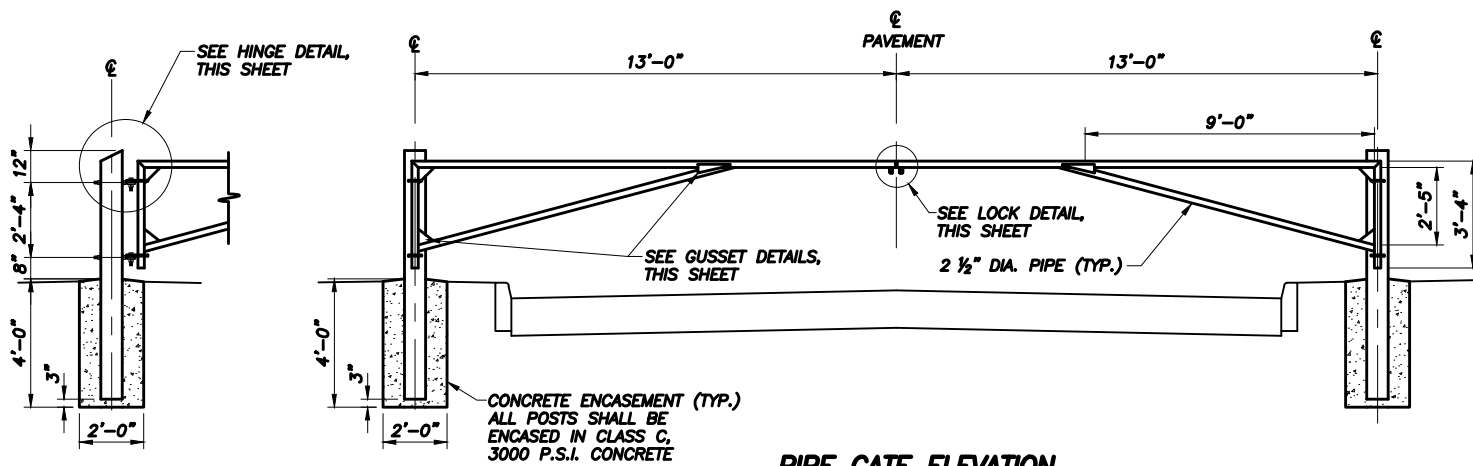
8579 Summit Road
Reynoldsburg, Ohio 43068

ISSUED WITH ADDENDUM 3	SHEET REVISED Cs1.2
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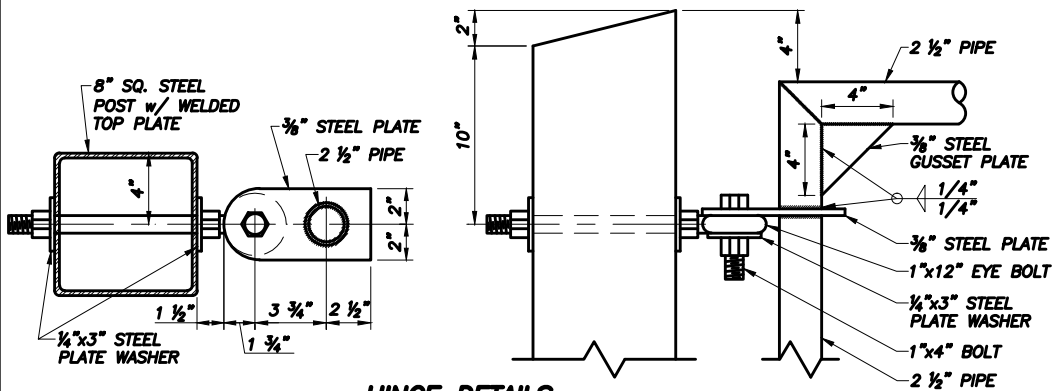
SKETCH NUMBER

C-SK13

PROJ # 08177.3	DRAWN BY MAB	DATE 3/30/11
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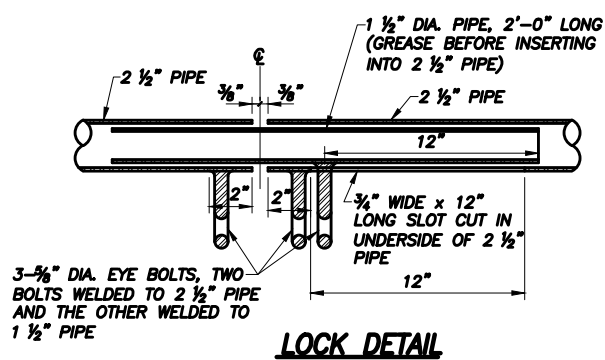
PIPE GATE ELEVATION



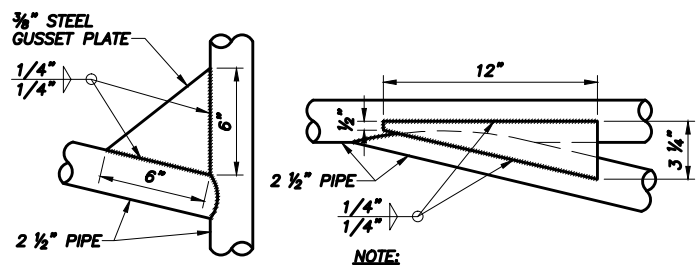
HINGE DETAILS

NOTES:

1. GATE POSTS SHALL BE LOCATED PER PLAN
2. ALL PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL
3. ASSEMBLED GATE PANELS SHALL BE HOT-DIP GALVANIZED PRIOR TO INSTALLATION
4. ALL HARDWARE SHALL BE GALVANIZED
5. PADLOCK TO BE PROVIDED BY OWNER
6. REFLECTORS TO BE PROVIDED BY OWNER AND INSTALLED ON PIPE GATES BY CONTRACTOR (2 PER GATE PANEL)



LOCK DETAIL



GUSSET DETAILS

PIPE GATE DETAIL

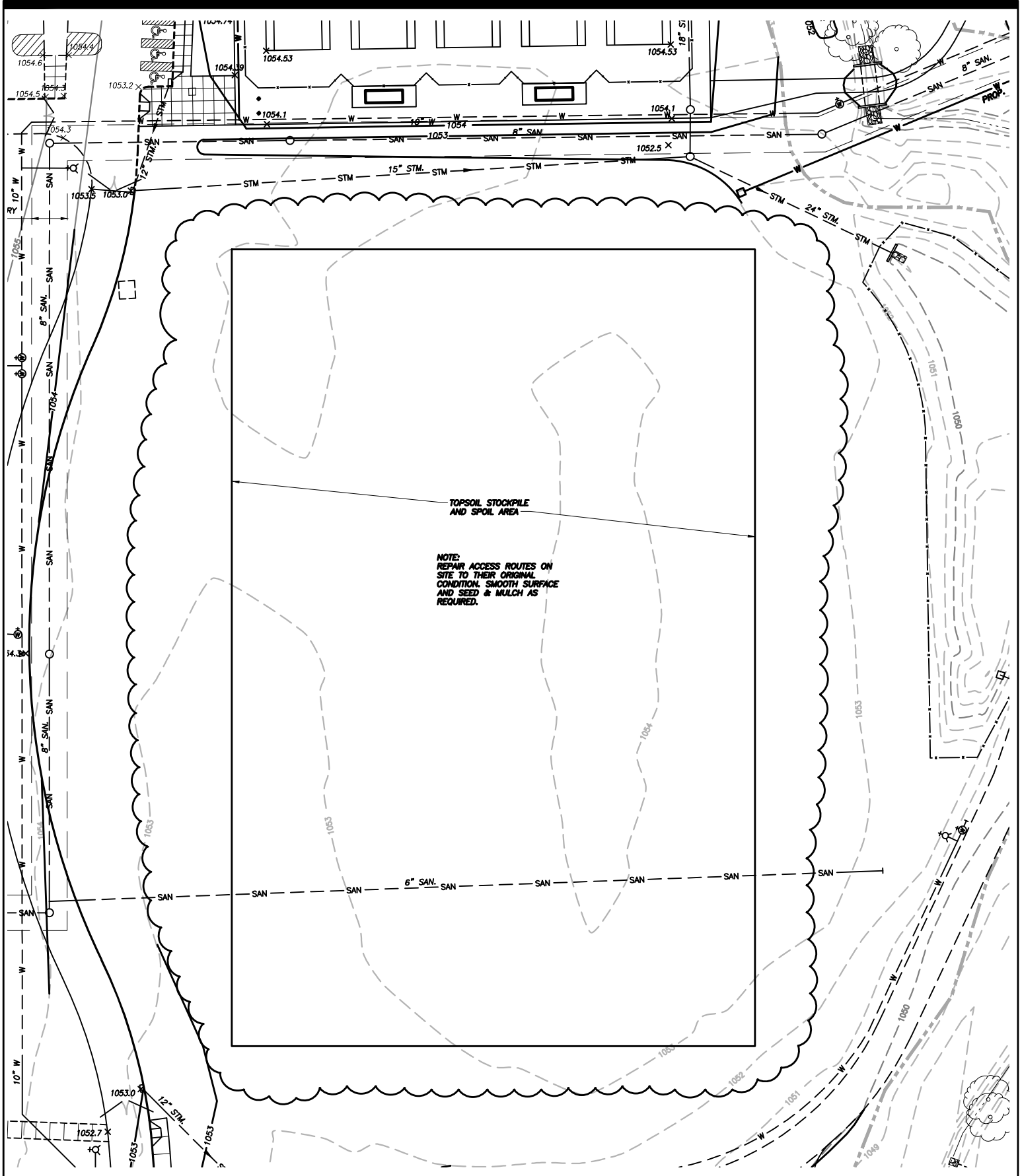
NO SCALE

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ISSUED WITH ADDENDUM 3	SHEET REVISED Cs4.1
SKETCH NUMBER C-SK14	
PROJ # 081TT.3	DRAWN BY MAB
DATE 3/30/11	



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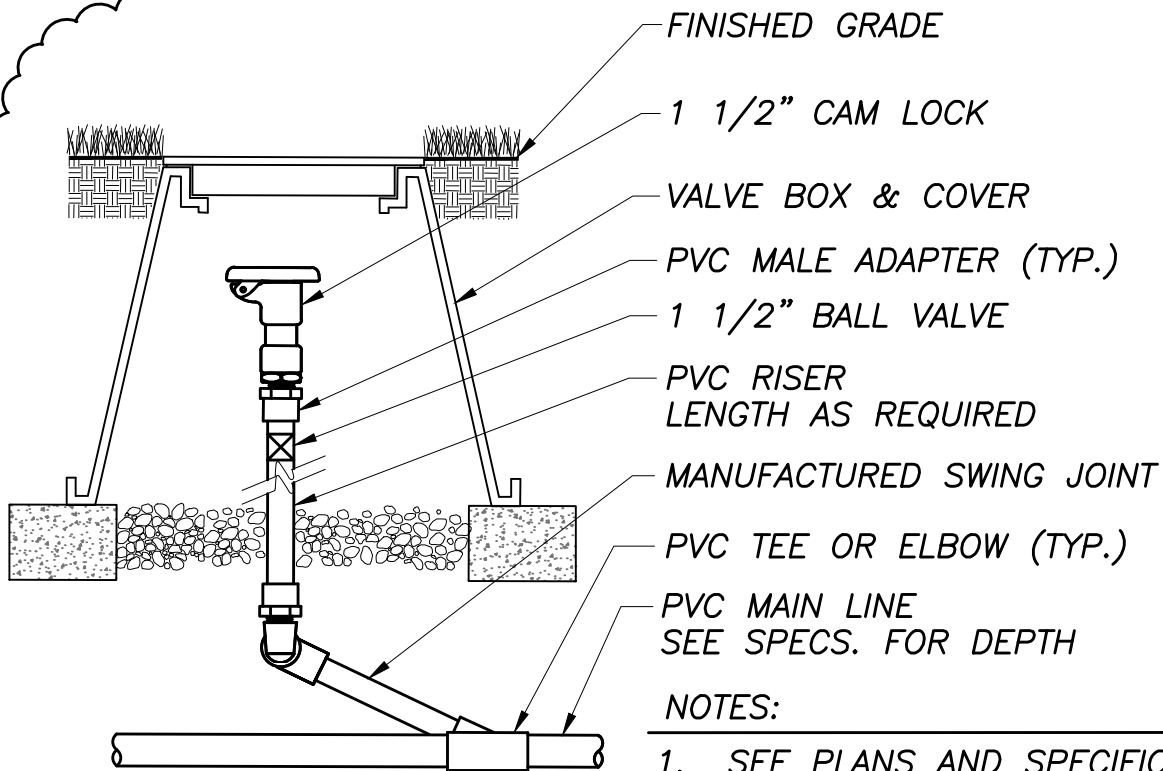
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ISSUED WITH ADDENDUM 3	SHEET REVISED Cs2.1 & Cs2.2
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SKETCH NUMBER

C-SK15

PROJ # 081T7.3	DRAWN BY MAB	DATE 3/30/11
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NOTES:

1. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION NOTES.
2. CONTRACTOR TO PROVIDE KIFCO T180 WATER WHEEL w/ SIME HYDRA SPRINKLER AND ALL REQUIRED FITTING, SEE SPECIFICATIONS.

7 1 1/2" QUICK COUPLER VALVE & BOX
NO SCALE

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ISSUED WITH SHEET REVISED
ADDENDUM 3 Cs4.1

SKETCH NUMBER

C-SK16

PROJ# DRAWN BY DATE
081T7.3 MAB 3/30/11