

McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS
8900 US Hwy 14, Crystal Lake



SHEET INDEX

Sheet Number	Sheet Title
	CIVIL SITEWORK
C-01	COVER
C-02	GENERAL NOTES
C-03	OVERALL CAMPUS SITE PLAN
C-04	DETAIL SITE PLAN PARKING LOT A
C-05	EROSION CONTROL AND DEMOLITION PLAN FOR LOT A, CULVERT, & POND
C-06	GRADING PLAN POND AND CULVERTS
C-07	GRADING PLAN PARKING LOT A
C-08	GRADING AND STORM SEWER TAGS
C-09	EROSION CONTROL SPECIFICATIONS
C-10	EROSION CONTROL DETAILS
C-11	EROSION CONTROL DETAILS
C-12	STANDARD CONSTRUCTION DETAILS
C-13	STANDARD CONSTRUCTION DETAILS
C-14	STANDARD CONSTRUCTION DETAILS
C-15	STANDARD CONSTRUCTION DETAILS
	LANDSCAPING
L-01	OVERALL SITE PLAN
L-02	TREE PRESERVATION PLAN
L-03	TREE PRESERVATION PLAN
L-04	LANDSCAPE PLAN
L-05	LANDSCAPE PLAN
L-06	LANDSCAPE PLAN
L-07	PLANT LIST & GENERAL NOTES
L-08	DETAILS
L-09	DETAILS
	ELECTRICAL
E000	ELECTRICAL COVER SHEET
ED100	ELECTRICAL SITE PLAN DEMOLITION
E100	ELECTRICAL SITE PLAN - LIGHTING
E101	ELECTRICAL SITE PLAN - PHOTOMETRIC
E200	ENLARGED ELECTRICAL ROOM AND WIRING DETAILS
E300	ELECTRICAL DETAILS

OWNER:
McHENRY COUNTY COLLEGE
8900 U.S. HIGHWAY 14
CRYSTAL LAKE, ILLINOIS 60012
PHONE: (815) 455-8564
DIRECTOR OF FACILITY CONTRACTS AND PROJECTS
MR. TODD WHELAND

ENGINEER / SURVEYOR:
HR GREEN, INC.
420 NORTH FRONT STREET, SUITE 100
McHENRY IL 60050
PHONE: (815) 385-1778
JOSEPH F. VAVRINA, P.E. - PROJECT MANAGER
DOUG STALKER - PROJECT SURVEYOR

UTILITY CONFLICTS:		
UTILITY SERVICE	CONTACT	TELEPHONE #
WATER SERVICE:	CITY OF CRYSTAL LAKE, ENGINEERING DIVISION	(815) 459-2020
	100 WEST WOODSTOCK STREET	
	CRYSTAL LAKE, IL 60014	
	MR. VICTOR RAMIREZ	
SANITARY SERVICE:	CITY OF CRYSTAL LAKE, ENGINEERING DIVISION	(815) 459-2020
	100 WEST WOODSTOCK STREET	
	CRYSTAL LAKE, IL 60014	
	MR. VICTOR RAMIREZ	
STORM DRAINAGE:	CITY OF CRYSTAL LAKE, ENGINEERING DIVISION	(815) 356-3605
	100 WEST WOODSTOCK STREET	
	CRYSTAL LAKE, IL 60014	
	MRS. ABIGAIL WILGREEN	
ELECTRIC SERVICE:	COMMONWEALTH EDISON	(847) 608-2382
	350 S. 2ND STREET	
	ELGIN, IL 60123	
	MR. JAYVEE ROLDAN	
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	222 WEST JACKSON STREET	
	WOODSTOCK, IL 60098	
	MR. STEVEN JONES	
GAS SERVICE:	NICOR	(847) 598-4005
	300 WEST TERRA COTTA AVENUE	
	CRYSTAL LAKE, IL 60014	
	MR. TIM HENEGHAN	
ROADWAY AUTHORITY:	ILLINOIS DEPARTMENT OF TRANSPORTATION	(847) 705-4143
	201 WEST CENTER COURT	
	SCHAUMBURG, IL 60196	
	MR. TOMAS GALLENBACH	


SITE BENCHMARKS:

SITE BENCHMARK #1:
CHISELED SQUARE ON TOP OF CONCRETE TRAFFIC CONTROLLER BASE.
LOCATED AT THE SOUTHEASTERN CORNER OF THE INTERSECTION OF
THE MAIN ACCESS DRIVE AND U.S. HIGHWAY 14
ELEVATION=922.53 (NAVD88)

SITE BENCHMARK #2:
CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE. LOCATED
JUST SOUTHEASTERLY FROM MAIN ENTRANCE OF THE BUILDING
ELEVATION=920.01 (NAVD88)

SITE BENCHMARK #3:
CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE. ON THE
LAST LIGHT POLE BASE OFF OF THE MAIN ACCESS ROAD OF THE MAIN
SOUTHEASTERLY PARKING LOT.
ELEVATION=921.43 (NAVD88)

Dial 811 or 1-800-892-0123



Know what's below.
Call before you dig.

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WITH THE FOLLOWING:
COUNTY **McHenry**
CITY--TOWNSHIP *City of Crystal Lake, Dorr*
SEC. & 1/4 SEC. NO.# SW 1/4 OF SEC-25-T-44N.-7E
48 hours before you dig
(Excluding Sat., Sun. & Holidays)

NOTE:

- HR GREEN, INC. IS TO BE NOTIFIED 3 DAYS PRIOR TO CONSTRUCTION START.
- HR GREEN, INC. SHALL BE INCLUDED IN ALL PRE-CONSTRUCTION MEETINGS.
- PLANS WERE PREPARED WITH THE INTENT THAT HR GREEN, INC. WILL DO ALL CONSTRUCTION STAKING.
- ANY DISCREPANCIES ON THIS PLAN SET MUST BE NOTED AND HR GREEN, INC. NOTIFIED PRIOR TO ACTUAL CONSTRUCTION.

420 N. FRONT STREET, SUITE 100 | McHENRY, IL 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com



BID ONLY

SPECIFICATIONS & GENERAL NOTES

All items of this project shall be governed by specifications included in the documents listed below:

- A. "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adopted by said department (latest revision).
- B. "Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (latest revision date).
- C. "Standards and Specifications for Soil Erosion and Sediment Control" (latest revision).
- D. "Standard Specifications for Water and Sewer Main Construction in Illinois" (latest revision).

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

1. SCOPE OF WORK. The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as "McHENRY COUNTY COLLEGE PARKING LOT A RECONSTRUCTION."

2. CONSTRUCTION OF UNDERGROUND UTILITIES

- A. Excavation: Where working conditions and right-of-way permit, pipe line trenches with sloping sides may be used.

The slopes shall not extend below the top of the pipe, and trench excavations below this point shall be made with vertical sides with widths not exceeding those specified herein for the various sizes of pipe.

Open-cut trenches shall be sheeted and braced as required by the governing State and Federal laws and municipal ordinances, and as may be necessary to protect life, property, or the work.

Where firm foundation is not encountered at the grade established due to unsuitable soil, all such unsuitable material shall be removed and replaced with approved compacted granular material.

- B. Width of trench: See trench detail.

- C. Removal of water: Contractors shall, at all times during construction, provide and maintain ample means and devices with which to remove and properly dispose of all water entering the excavations. No sanitary sewer shall be used for disposal of trench water, unless specifically approved by the Engineer and then only if the trench water does not ultimately arrive at existing pumping or sewage treatment facilities.

- D. Bedding of pipe: All pipe shall be installed on a bed of approved, compacted granular material unless otherwise approved by the City Engineer. The bedding and backfilling of excavated materials shall be cleared with City first and be installed as per typical trench backfill detail.

- E. Special backfill: Whenever the excavation is in existing or proposed street, parking areas, driveways, or other paved areas, the trench shall be backfilled with approved selected granular material, compacted in place. The top 12" of the backfill shall be filled with road gravel or crushed stone and maintained as a temporary surface for the normal use of the area. Special backfill shall meet the requirements of the detail UG-03 found on Sheet C-16. Note: Excavated materials may be used if approved by the City Engineer.

- F. Restoration of drainage: As soon as possible after backfilling the trench, all ditching, grading and shaping necessary to restore the original drainage in the area of work shall be completed. Culverts removed during the course of the work shall be replaced as soon as practicable.

Adequate temporary drainage facilities shall be provided during construction.

- G. Utilities: The Contractor shall notify all utilities prior to the installation of any pipe lines. Where conflict exists between underground utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until such changes are approved by the City Engineer in writing.

3. The subgrade shall be free of unsuitable material and shall be prepared in accordance with the recommendations noted in the geotechnical report prepared by Midland Standard Engineering and Testing, INC., dated October 23, 2013 for this project. Testing for compaction shall be the responsibility of the contractor. The City of Crystal Lake will require a proof-roll test if warranted by final soil compaction. This also applies to the parking lot and aisle subgrade and also upon gravel placement. All topsoil and any organic materials must be removed.

4. Easements for the existing utilities, both public and private, and utilities within public rights-of-way are shown on the plans according to available records. The Contractor shall be responsible for determining the field of these utility lines and their protection from damage due to construction operations. If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer so that the conflict may be resolved.

5. Contractor shall be responsible for securing all Permits including municipal permits.

6. INSPECTION. All improvements shall be subject to inspection by a duly authorized and qualified City inspector both during the course of construction and after construction is complete. The inspector shall have authority over materials of construction, methods of construction and workmanship to insure compliance with working drawings and specifications. The Contractor shall provide for reasonable tests and proof of quality of materials as requested by the Inspector. Inspector shall have forty-eight (48) hours notice prior to construction.

7. Wherever a sewer crosses under a water main, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18". Furthermore, a minimum horizontal distance of 10' between sanitary sewers and water mains shall be maintained. If either the vertical or horizontal distances described above cannot be maintained, or the sewer crosses above the water main, the sewer pipe shall be pipe of water main type quality and water main quality joints, or the water main shall be encased in a steel sleeve for a perpendicular distance of 10' on each side of the sewer.

8. STORM SEWER MATERIAL

Storm sewers shall be of reinforced concrete pipe conforming to ASTM C76 minimum Class III with O-rings conforming to ASTM C443. All inlet connections shall be concrete sewer pipe. ASTM C14 for extra strength pipe. All Storm Sewers denoted as PVC Storm Sewer shall conform to ASTM D 3034, Type PSW for sizes 10"-15" and ASTM E-678-B9 for sizes 18"-36" Minimum acceptable SDR shall be 35. The pipe shall be made of PVC plastic having a minimum cell classification of 12454-C, and shall be have a minimum pipe stiffness of forty-six (46) lbs. per inch per inch (317 kpa). Joints for PVC pipe should be the Integral Bell Gasket type with elastomeric gaskets complying with ASTM F-417 and ASTM D-3212. All inlet connections shall be concrete sewer pipe, ASTM C14 for extra strength pipe.

9. Storm Sewer Manholes and Catch Basins

- A. Manholes and catch basins shall have precast reinforced concrete barrel sections conforming to ASTM C478 with preformed bituminous joint and with integral precast-in-place bottoms. Precast slab bottoms may be used for manholes to be built in existing storm sewerage system lines.

- B. No more than two precast concrete adjusting rings shall be allowed for a maximum height adjustment of eight inches. All structures shall be wrapped with fabric around the frame, adjusting rings, and down six inches onto the structure.

- C. Each manhole shall have a poured Class SI concrete bench carefully shaped to drain to the outlet pipe.

14. Inlets

- A. Inlets shall be constructed of precast reinforced concrete conforming to ASTM C478 with "O"-ring or preformed bituminous joints and with precast-in-place bottom. Inlets shall have a wall thickness of no less than four inches.

- B. No more than two precast concrete adjusting rings shall be allowed for a maximum height adjustment of eight inches. All structures shall be wrapped with fabric around the frame, adjusting rings, and down six inches onto the structure.

- C. A Class SI concrete bench shall be poured in the bottom of each inlet and shaped to drain to the outlet pipe. The fall across the inlet shall be no less than four inches.

15. STORM SEWER FRAMES AND LIDS. All frames not falling in the flow line of the curb and gutter shall be Veneah 1712 or as noted on the plans with a 1" pickhole and the word "Storm" cast in the lid. All curb inlets, and catch basins in gutter lines shall be Veneah R-3281 Frame and Grate, or as noted on plans, with ENVRO logo where Type B-6.12 curb and gutter is specified. All storm sewer grates shall have the ENVRO Logo on them. All bituminous joining compound for manholes and catch basins shall be RAM-NEK or E-2 STICK.

16. PROTECTION OF WATER MAIN AND WATER SERVICE LINES. Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

- A. Water Service Lines

1. Horizontal Separation

- a. Water mains shall be laid at least 10' horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.

- b. Water mains may be laid closer than 10' to a sewer line when:

- (1) Local conditions present a lateral separation of 10';
- (2) The water main invert is at least 18" above the crown of the sewer; and
- (3) The water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer with a minimum vertical separation of 18".

- c. Both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting the requirements of Section 653.111 when it is impossible to meet (a) or (b) above. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling.

2. Vertical Separation.

- a. A water main shall be laid so that its invert is 18" above the crown of the drain or sewer whenever water mains cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the water main located within 10' horizontally of any sewer or drain crossed. A length of water main pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.

- b. Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting requirements of Section 653.111 when:

- (1) It is impossible to obtain the proper vertical separation as described in (a) above; and
- (2) The water main passes under a sewer or drain.

- c. A vertical separation of 18" between the invert of the sewer or drain and the crown of the water main shall be maintained where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the water main.

- d. Construction shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least 10'.

- B. Special Conditions. Alternate solutions shall be presented to the Agency when extreme topographical, geological or existing structural conditions make strict compliance with (A) and (B) above technically and economically impractical. Alternate solutions will be approved provided water-tight construction structurally equivalent to approved water main material is proposed.

17. The Contractor may not remove any material from the site except as directed by the Owner or Engineer in the case of excess material.

18. EROSION CONTROL.

It shall be the Contractor's responsibility to properly control erosion on the jobsite. Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contractor. The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for clean-up of paved surfaces within and adjacent to the project on a timely basis and/or at the direction of the City Engineer.

19. TOPSOIL PLACEMENT.

Contractor shall place stockpiled topsoil or imported material on all disturbed areas with 6" topsoil raked smooth to be ready for landscaping (seeding, sod, etc.).

20. BITUMINOUS CONCRETE. Refer to pavement sections on this sheets C-16 AND C-19 for type and thickness

21. The Engineer and City of Crystal Lake Engineering Department shall be notified if, during construction, any buried field tiles are exposed or disturbed. The Contractor shall reconnect said field tiles if deemed necessary.

22. Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. The "Department" shall be deemed to mean HR Green, Inc. The Contractor shall include HR Green, Inc., the City of Crystal Lake and it's Agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer. All costs for insurance shall be considered incidental to the contract.

23. All handicapped parking signs must have a \$250.00 fine sign attached.

24. Lighting shall be constructed as per the electrical plan, done under separate contract by Electrical Consultant. All conduit shall be placed outside of any municipal easements except for authorized 90' crossings.

25. The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. See City Standard Traffic Control detail for lane closures of public roads.

26. The Engineer shall be responsible for the following:

- A. To visit the construction site in order to better carry out the duties and responsibilities assigned by the Owner and undertaken by the Engineer; and

- B. The Engineer shall not, during such visits or as a result of such observations of the Contractor's work in progress, supervise, direct, have control over the Contractor's work, nor shall the Engineer have the authority over the responsibility for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor, for safety precautions and programs incidental to the work of the Contractor, or for any failure of the Contractor to comply with laws, rules, regulations, ordinances, codes or orders applicable to the Contractor furnishing and performing his work. Accordingly, the Engineer can neither guarantee the performance of the construction contracts by the Contractor nor assume responsibility for the Contractor's failure to furnish and perform his work in accordance with the Contract Documents.

27. No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting their work with the actual conditions at the job site. In addition, the Contractor must verify the Engineer's line and grade stakes. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense.

In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the Engineer shall be final and conclusive.

28. The Contractor shall indemnify and hold harmless the City, City's Engineers their agents and it's employees, HR Green, Inc. and Child-R-A, Inc. from and against all claims, damages, losses and expenses, including attorney's fees arising out of or resulting from the performance of the Contractor's work. In any and all claims against the City or its employees, by any employee of the Contractor, or anyone directly or indirectly employed by the Contractor, or anyone for whose acts the Contractor may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount of damages, waiver of subrogation compensation or benefits payable by or for the Contractor under Workmen's Compensation acts, disability benefit acts or other employee benefit acts.

29. Sawing of removal items as noted on the plans, specified in Section 440 of the Standard Specifications, or as required by the engineer, shall be considered incidental to the cost of the item being removed, and no extra compensation will be allowed, unless otherwise specified.

30. SIGN PANEL - TYPE 1, METAL POST - TYPE B. This work shall consist of furnishing and installing Type 1 sign panels on U-channel, and bracket away sign supports as indicated on the plans. Sign assemblies shall meet the requirements of Standard Specifications for Traffic Control Items.

Installation of sign assemblies shall be as specified on the plans, in accordance with the Illinois Manual on Uniform Traffic Control Devices and as directed by the Engineer.

Furnishing, fabricating and installing sign assemblies will be paid for at the contract unit price per square foot for Sign Panel - Type 1 which price will be payment in full for all labor and material necessary to fabricate and install each sign assembly specified on the plans. The posts, including

the break away assembly, shall be paid for at the unit price per foot for Metal Post - Type B.

31. PROTECTIVE COAT. This work shall be in accordance with Section 420 of the Standard Specifications insofar as applicable with the following revision.

The protective coat shall be applied to all exposed surfaces of Combination Concrete Curb and Gutter, Concrete Median and Concrete Corrugated Median.

This work will be paid for at the contract unit price per square yard for Protective Coat.

32. COMBINATION CONCRETE CURB AND GUTTER. Concrete curb, concrete gutter and combination concrete curb and gutter shall be constructed, measured and paid for in accordance with Section 606 of the Standard Specifications except as follows:

Revise the last sentence of the second paragraph of Article 606.07 to read as follows: "The traverse joints shall be contraction joints spaced on 12-foot centers."

Any City requirements regarding expansion & contraction joints shall govern construction.

33. A performance guarantee shall be required (letter of credit) for all public utilities. Also, a two year maintenance bond shall be established upon completion of work.

34. All pavement markings on main access drives, approaches and parking lot shall be painted with two (2) coats of WHITE SHERWIN WILLIAMS "PROMAR TRAFFIC MARKING."

Pavement Striping: All proposed pavement striping to be paint.

All Handicap striping shall be yellow.

35. All curb & gutter crossings over trench locations shall be reinforced with 2-#4 rebar extended 2' beyond each side of trench

36. Where storm sewer is located above the water main, the reinforced concrete pipe shall have O-rings to provide a water tight seal and to create a water quality pipe.

37. CURB RAMPS

All sidewalks shall be installed to accommodate the handicapped. A Type "A" ramp shall be installed in accordance with I.D.O.T. Standard Detail #24001-001, or the detail shown on the plan. Color of truncated domes shall be contrasting with the adjacent surface. Contractor to coordinate color with owner prior to ordering truncated dome panels.

38. CONCRETE PAVEMENT. The contractor will need to provide a grid spacing layout for approval by the engineer.

The curing requirements should follow Section 1022.01, (b) with fugitive dye as noted in the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition. Sealers should follow Section 1026 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition.

Joint sealing shall follow Section 1058 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition.

The concrete curb shall be tied to the concrete pavement. Use No. 6, 30" long bar at 48" O.C. Alternatively the curb can be poured monolithically with the concrete pavement.

39. SIDEWALKS. Unless otherwise shown on the plans, the proposed sidewalks in front of the site shall be constructed when the site work is substantially complete.

ALL PUBLIC AND PRIVATE SIDEWALKS SHALL BE CONSTRUCTED WITH A MAXIMUM RUNNING SLOPE OF NO GREATER THAN 1:20 (FT/FT) - 5% GRADIENT

All materials shall meet the requirements of the "Standard Specifications for Road and Bridge Construction" of the Illinois Department of Transportation. Concrete shall be at least a six (6) bag mix, 4% to 6% air entrained, and shall have a slump of no less than two (2") inches nor more than four (4") inches. Fiberglass reinforced additives shall be used on all sidewalks extending through driveways. Sidewalks shall be placed on a minimum of four (4") inches of CA-6 crushed stone or Grade 9 compactable crushed stone. Driveway crossings for sidewalks shall be 6" P.C.C. with (4") inches of CA-6 crushed stone or Grade 9 compactable crushed stone.

Pre-molded bituminous expansion joints one-half (1/2") inch thick shall be placed every 50 feet minimum and one-half (1/2") inch thick between the sidewalk and all structures, which extend through the sidewalk. Control joints shall be on five (5') foot centers.

The side edges of the sidewalk shall have rounded edges and the surface shall be "broom" finished.

Protection and Curing: All exposed surfaces of concrete shall be protected against rain. The concrete shall be cured for a minimum period of three days after placing by one of the following methods:

Wet burlap

Impervious paper

Membrane curing compound

When the temperature of the air is expected to drop below 40 degrees F. within 24 hours placing the concrete shall be protected with nine inches of loose, dry straw and a layer of burlap other acceptable material, for a period of at least five days.

40. The concrete sealer, in addition to conforming with the referenced Standard Specification section, shall be selected from the current IDOT approved product list for Plural Component Concrete Sealers, or equal. The concrete sealer must dry to a clear finish. All exterior concrete surfaces as well as the adjacent block retaining wall shall be sealed. The contractor shall provide documentation from the sealant provider, segmental block wall supplier and concrete pavement supplier noting the sealer is compatible with all exterior concrete surfaces that it is to be applied to. Contractor to also provide cut sheets of the desired sealer to the engineer for approval prior to ordering.

41. All surplus soil that will need to be hauled and disposed of offsite will need to be certified that it is not contaminated as defined under 415 ILCS 5/3.160 and any fees, taxes, surcharges charged by or through the operator(s) of clean construction or demolition debris (CCDD) or uncontaminated soil fill operations for the acceptance of uncontaminated soil shall be paid for by the contractor and those fees included in their bid price.

42. It is the intent to recycle the bituminous grindings and existing parking lot aggregate base for re-use as structural fill and/or aggregate base course. Contractor to coordinate with on-site geo-technical engineer to verify usability of re-use material as aggregate base course.

SPECIFIC PROJECT NOTES:

- Construction Staking will be performed by HR Green, Inc.
- Geotechnical testing will be coordinated by the contractor with Midland Standard Engineering & Testing and paid for by McHenry County College.
- Paint top of curb along building with yellow paint. Paint shall be Yellow Sherwin Williams "Promar Traffic Marking".
- All Bituminous millings shall be salvaged and used as structural fill below the aggregate base course for Parking Lots A. An average thickness of 4" was assumed for determining the volume of approximately 2,000 cubic yards.
- The existing aggregate base course has an average thickness of approximately 9". All aggregate within the existing parking lot limits shall be salvaged and will be identified as select aggregate. The select aggregate base course free of soil can be reused as the aggregate base course for Parking Lot A. The existing aggregate shall be placed on top of the bituminous millings which are also used as the structural fill. There will be approximately 4,500 cubic yards of select existing aggregate base material. The select existing aggregate base material and bituminous millings will be placed and compacted. A proof roll will be required to ensure that the materials have adequate stability as the proposed base course for the new bituminous pavement.
- Any remaining select existing aggregate base material which is free of soil can be utilized as aggregate base material under the concrete sidewalk and/or as trench backfill for the various underground utilities. The existing aggregate base material shall be compacted to 95% standard proctor.
- Any suitable structural material excavated within the project (including trench spoils) that is used to fill areas beneath the new pavement shall be placed below the bituminous millings. Placement and compaction of this material shall be included in the cost for Earth Excavation.
- The Earth Excavation quantity in the contract includes all unsuitable non-structural cut. This material shall be used in the berm and within the parking lot islands.
- The cost to backfill of the curbs and islands shall be included in either the cost for Earth Excavation or Import Onsite Material.
- Any additional material needed for the proposed berm shall be imported from the existing on-site stockpile. Surplus material may be placed on the stockpile with approval from the Engineer. See Sheet C-03 for stockpile location.

TAG EXPLANATION LEGEND:

EXAMPLE 1 (SANITARY & STORM MANHOLES):

SAN MAN TA 4" DIA TIF CL = PROPOSED SANITARY MANHOLE, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID

EXAMPLE 2 (STORM SEWER, SANITARY SEWER, WATERMAIN):

120 LIN FT SAN SEWER MAIN 6" = PROPOSED 120 LINEAL FEET SANITARY SEWER 6"

CB TA 4" DIA T11 F&G =

EXAMPLE 3 (STORM CATCH BASINS):

PRC CONC FES 15 =

EXAMPLE 4 (STORM FLARED END SECTIONS):

PROPOSED PRECAST CONCRETE FLARED END SECTION 15"

SYMBOL LEGEND

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN/INLET	⊙	⊙
INLET	□	□
FLARED END SECTION	▷	▷
DRY WELL	⊙	⊙
VALVE VAULT	⊙	⊙
FIRE HYDRANT	▼	▼
LIGHT POLE	✱	✱
STREET SIGN	+	+
REGULATORY SIGN	+	+
UTILITY BOX	⊙	⊙
UTILITY POLE	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
STORM SEWER	—	—
SANITARY SEWER	—	—
CULVERT	-----	-----
WATER MAIN	—	—
WATER MAIN ENCASEMENT	—	—
SANITARY FORCE MAIN	—	—
STORM UNDERDRAIN	—	—
ELECTRIC LINE	—	—
TELEPHONE LINE	—	—
Gas LINE	—	—
CABLE TV LINE	—	—
TREE LINE	—	—
TREE	⊙	⊙
CONTOURS	—	—
FENCE	—	—
STONE RIP RAP	—	—
EROSION CONTROL FENCE (QUANTITY SPECIFIED PER PLANTS)	—	—
DRAINAGE DIRECTION ARROW	—	—
10-100 YEAR OVERFLOW DIRECTION ARROW	—	—

THE SPECIFICATIONS ON THIS SHEET ARE IN CONJUNCTION WITH THE SPECIFICATIONS OUTLINED IN THE PROJECT MANUAL. THE INTENT IS FOR THE SPECIFICATIONS TO WORK TOGETHER AND IF AN DISCREPANCIES ARISE BETWEEN SPECIFICATION THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ENGINEER. FINAL DETERMINATION AS TO WHICH SPECIFICATION WILL PREVAIL WILL BE DETERMINED BY THE ENGINEER.

BID ONLY

DRAWN BY: CWF
APPROVED: JFV
JOB DATE: 2016
JOB NUMBER: 86150398
CAD DATE: 3/9/2016 1:24:18 PM
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BAR IS ONE INCH ON OFFICIAL DRAWINGS.
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



ILLINOIS DESIGN FIRM # 184-001322
420 N. FRONT STREET, SUITE 100
McHENRY, ILLINOIS 60050
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McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS

CIVIL SITEWORK
GENERAL NOTES

SHEET NO.

C-02



OVERALL IMPROVEMENT AREA

- PARKING LOT A EXISTING IMPERVIOUS AREA BEING REMOVED (170,168 SF.)
- PARKING LOT A PROPOSED IMPERVIOUS AREA (162,658 SF.)
- TOTAL AREA OF DISTURBANCE (261,400± SF. OR 6.0 AC.)

DRAWN BY: CWF JOB DATE: 2016
APPROVED: JFV JOB NUMBER: 86150398
CAD DATE: 3/9/2016 1:46:19 PM
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BAR IS ONE INCH ON
OFFICIAL DRAWINGS,
0" = 1"
IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

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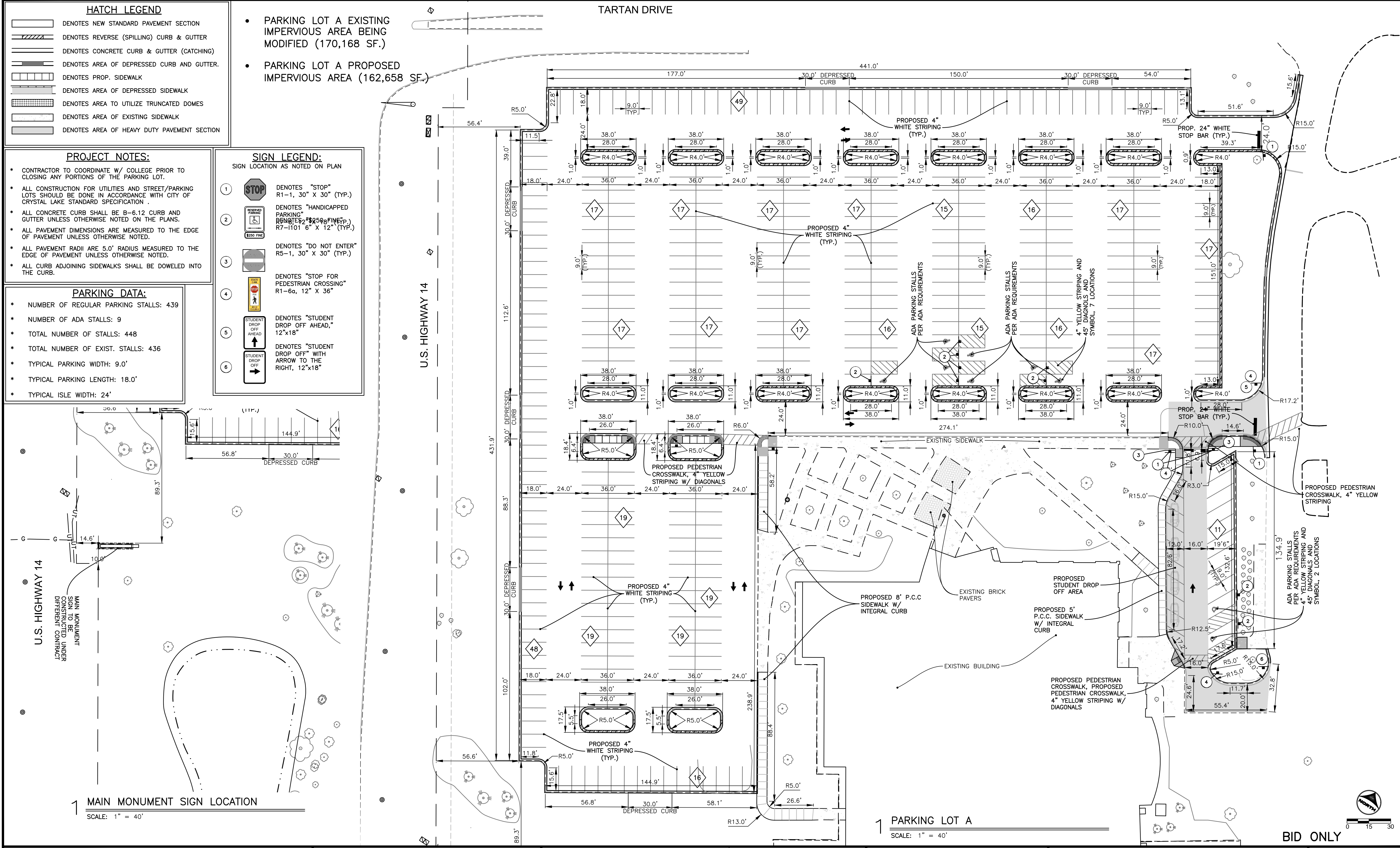
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McHenry County College

McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS

CIVIL SITEWORK
OVERALL CAMPUS SITE PLAN

SHEET NO.
C-03



HATCH LEGEND

- DENOTES NEW STANDARD PAVEMENT SECTION
- DENOTES REVERSE (SPILLING) CURB & GUTTER
- DENOTES CONCRETE CURB & GUTTER (CATCHING)
- DENOTES AREA OF DEPRESSED CURB AND GUTTER.
- DENOTES PROP. SIDEWALK
- DENOTES AREA OF DEPRESSED SIDEWALK
- DENOTES AREA TO UTILIZE TRUNCATED DOMES
- DENOTES AREA OF EXISTING SIDEWALK
- DENOTES AREA OF HEAVY DUTY PAVEMENT SECTION

PROJECT NOTES:

- * CONTRACTOR TO COORDINATE W/ COLLEGE PRIOR TO CLOSING ANY PORTIONS OF THE PARKING LOT.
- * ALL CONSTRUCTION FOR UTILITIES AND STREET/PARKING LOTS SHOULD BE DONE IN ACCORDANCE WITH CITY OF CRYSTAL LAKE STANDARD SPECIFICATION
- * ALL CONCRETE CURB SHALL BE 8-6.12 CURB AND GUTTER UNLESS OTHERWISE NOTED ON THE PLANS.
- * ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- * ALL PAVEMENT RADII ARE 5.0' RADIUS MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- * ALL CURB ADJOINING SIDEWALKS SHALL BE DOWELED INTO THE CURB.

PARKING DATA:

- * NUMBER OF REGULAR PARKING STALLS: 439
- * NUMBER OF ADA STALLS: 9
- * TOTAL NUMBER OF STALLS: 448
- * TOTAL NUMBER OF EXIST. STALLS: 436
- * TYPICAL PARKING WIDTH: 9.0'
- * TYPICAL PARKING LENGTH: 18.0'
- * TYPICAL ISLE WIDTH: 24'

SIGN LEGEND:
SIGN LOCATION AS NOTED ON PLAN

- 1 STOP DENOTES "STOP" R1-1, 30" X 30" (TYP.)
- 2 HANDICAPPED PARKING DENOTES "HANDICAPPED PARKING" R7-1101 6" X 12" (TYP.)
- 3 DO NOT ENTER DENOTES "DO NOT ENTER" R5-1, 30" X 30" (TYP.)
- 4 STOP FOR PEDESTRIAN CROSSING DENOTES "STOP FOR PEDESTRIAN CROSSING" R1-6d, 12" X 36"
- 5 STUDENT DROP OFF AHEAD DENOTES "STUDENT DROP OFF AHEAD," 12"x18"
- 6 STUDENT DROP OFF DENOTES "STUDENT DROP OFF" WITH ARROW TO THE RIGHT, 12"x18"

1 MAIN MONUMENT SIGN LOCATION
SCALE: 1" = 40'