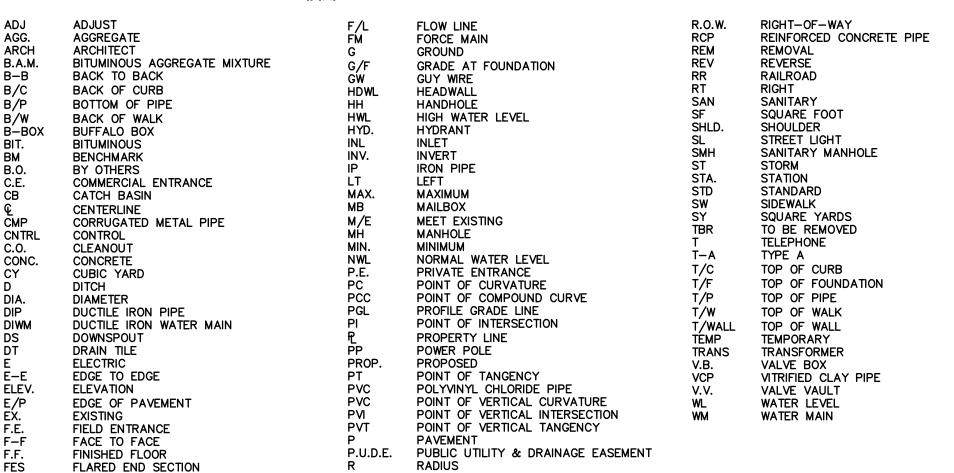
# OAKTON COMMUNITY COLLEGE COURTYARD REHABILITATION

1600 EAST GOLF ROAD DES PLAINES, ILLINOIS

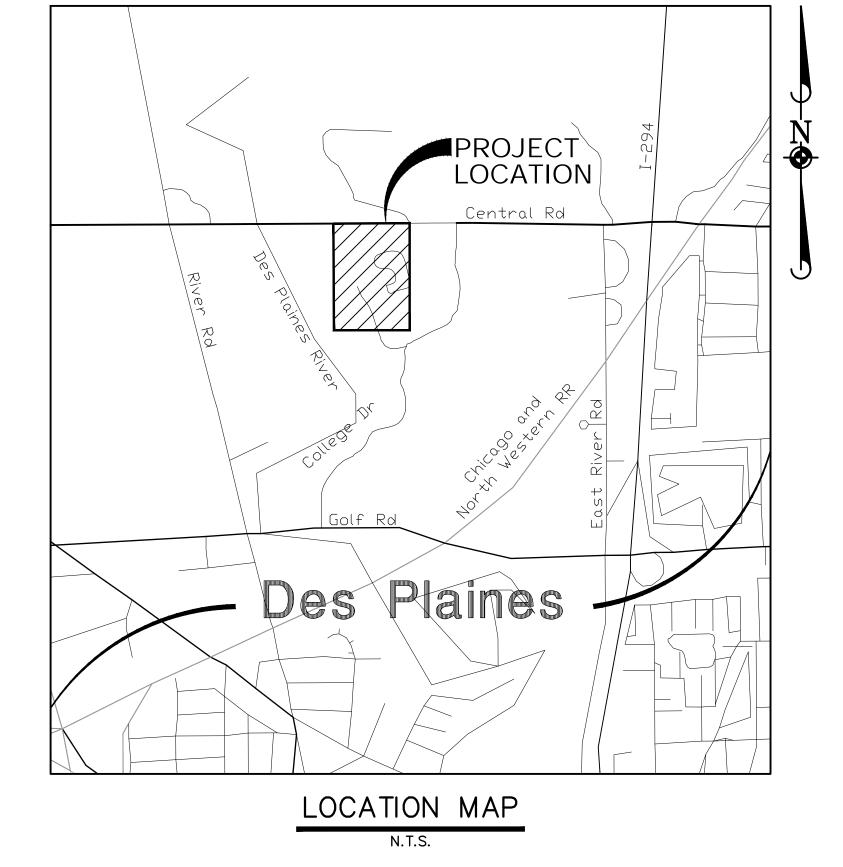
## STANDARD SYMBOLS



# ABBREVIATIONS



Civil Engineers • Surveyors • Water Resources Engineers • Water & Wastewater Engineers • Construction Managers • Environmental Scientists • Landscape Architects • Planners



OWNER/CLIENT: OAKTON COMMUNITY COLLEGE 1600 E. GOLF ROAD DES PLAINES, ILLINOIS (847) 635-1600 CONTACT: RICHARD SCHWASS SENIOR MANAGER OF CAMPUS FACILITIES



### INDEX OF SHEETS

### SHEET NO. DESCRIPTION

- TITLE SHEET
- EXISTING CONDITIONS AND DEMOLITION PLAN
- SITE DIMENSIONAL AND PAVING PLAN
- GRADING AND UTILITY PLAN
- CONSTRUCTION DETAILS
- CONSTRUCTION SPECIFICATIONS
- PLANT REMOVAL AND PROTECTION
- PLANTING PLAN
- PLANT SCHEDULE
- LANDSCAPE DETAILS
- ELECTRICAL SITE PLANS UPPER COURTYARD
- ARCHITECTURAL AND ELETRICAL PLANS LOWER COURTYARD

### **NOTES:**

- 1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A FIELD SURVEY COMPLETED BY MANHARD CONSULTING, LTD. ON APRIL 14, 2022. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS
- 2. CITY OF DES PLAINES NOTES AND PLAN DETAILS SUPERCEDE ALL OTHERS.
- 3. CONTRACTOR TO FIELD VERIFY ALL HANDICAP ACCESSIBLE STALLS AND HANDICAP ACCESSIBLE ROUTES ARE IN CONFORMANCE WITH ALL ADA REQUIREMENTS & GUIDELINES PRIOR TO COMMENCEMENT OF WORK ON SITE. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.

### **BENCHMARKS:**

### REFERENCE BENCHMARK:

CITY OF DES PLAINES BENCHMARK#65: CHISELED SQUARE ON TOP OF HEADWALL ON THE SOUTH SIDE OF CENTRAL ROAD AND THE WEST SIDE OF DES PLAINES RIVER.

ELEVATION=639.60 DATUM=NAVD88

### SITE BENCHMARK 10:

CUT SQUARE ON THE WEST SIDE OF A CONCRETE LIGHT POLE BASE AT THE NORTHEAST ENTRANCE TO PRESIDENT'S COURTYARD IN THE MAIN BUILDING AT OAKTON COMMUNITY COLLEGE. APPROXIMATELY 17 FEET EAST OF THE NORTHWEST BUILDING CORNER OF THE ENTRANCE AND APPROXIMATELY 28 FEET NORTHWEST OF THE SOUTHEAST BUILDING CORNER OF THE ENTRANCE.

ELEVATION=637.38 DATUM=NAVD88

### SITE BENCHMARK 11:

NORTHWEST FLANGE BOLT ON A FIRE HYDRANT ON THE NORTH SIDE OF THE MAIN BUILDING AT OAKTON COMMUNITY COLLEGE. APPROXIMATELY 200 FEET EAST OF THE NORTHEAST ENTRANCE TO PRESIDENT'S COURTYARD AND APPROXIMATELY 15 FEET SOUTHEAST OF THE SOUTHEAST EDGE OF WATER OF OAKTON LAKE.

ELEVATION=634.24 DATUM=NAVD88

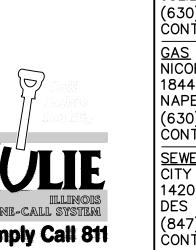
### SITE BENCHMARK 12:

SOUTH ARROW BOLT ON A FIRE HYDRANT NEAR THE NORTHEAST CORNER OF THE MAIN BUILDING AT OAKTON COMMUNITY COLLEGE, APPROXIMATELY 125 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE MARGARET BURKE LEE SCIENCE AND HEALTH CAREERS CENTER BUILDING AND APPROXIMATELY 40 FEET SOUTHEAST OF THE SOUTHEAST EDGE OF WATER OF OAKTON

ELEVATION=637.61 DATUM=NAVD88



<u>UTILITY CONTACTS</u>						
ELECTRIC COMED 4712 REILAND DRIVE JOLIET, IL 60433 (630) 576-7094 CONTACT:	WATER CITY OF DES PLAINES 1420 MINER STREET DES PLAINES, IL 60016 (847) 391-5390 CONTACT: TIM OAKLEY					
GAS NICOR GAS 1844 FERRY ROAD NAPERVILLE, IL 60563 (630) 388-3830 CONTACT: CONSTANCE LANE	TELEPHONE AT&T 65 N. WEBSTER ST JOLIET, IL 60431 (770) 750-6181 CONTACT: JIM EVERETT					
SEWER CITY OF DES PLAINES 1420 MINER STREET DES PLAINES, IL 60016 (847) 391-5390 CONTACT: TIM OAKLEY	CABLE COMCAST 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 (630) 600-6346 CONTACT: MARTHA GIERAS					



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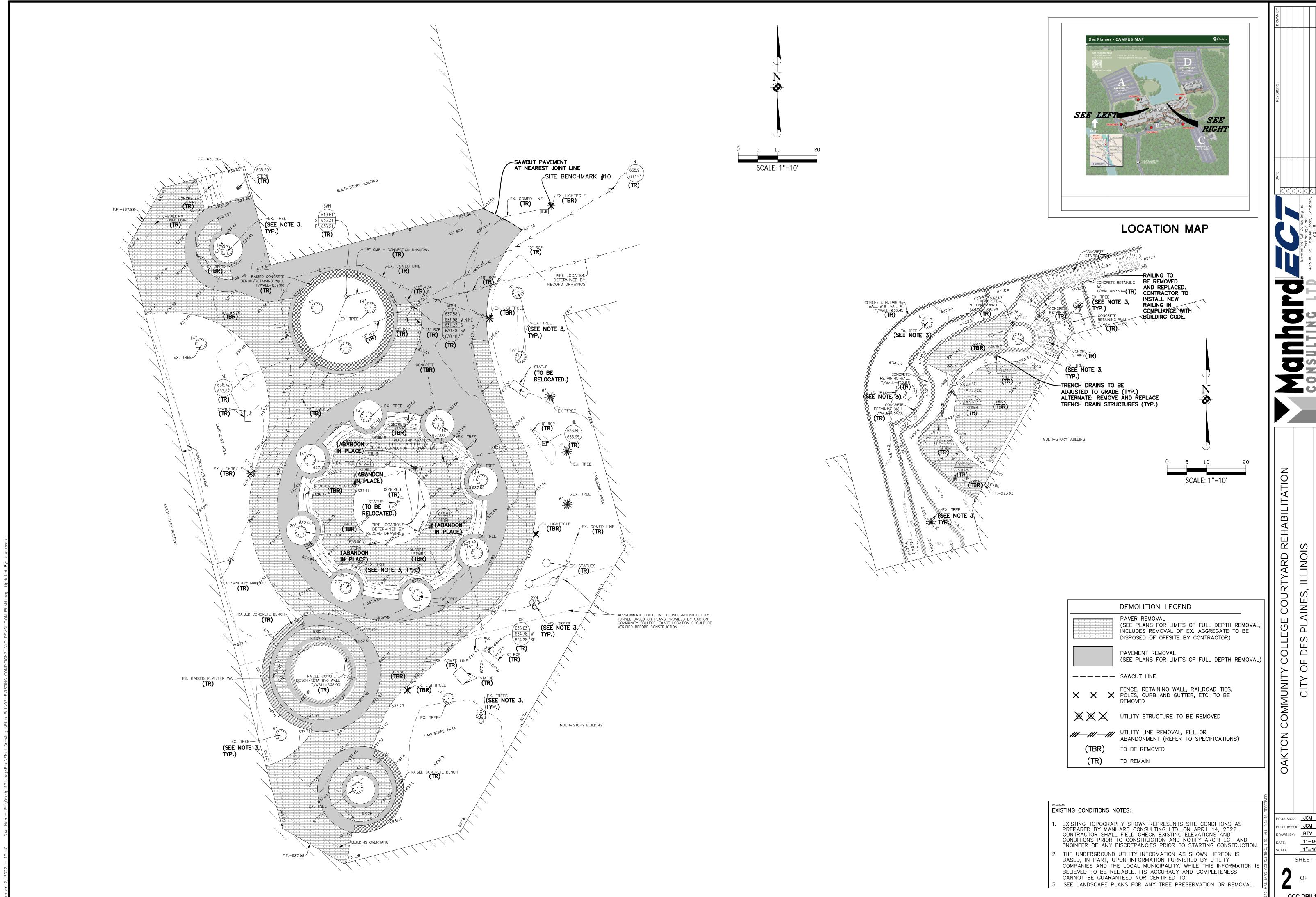
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11-04-22 SHEET

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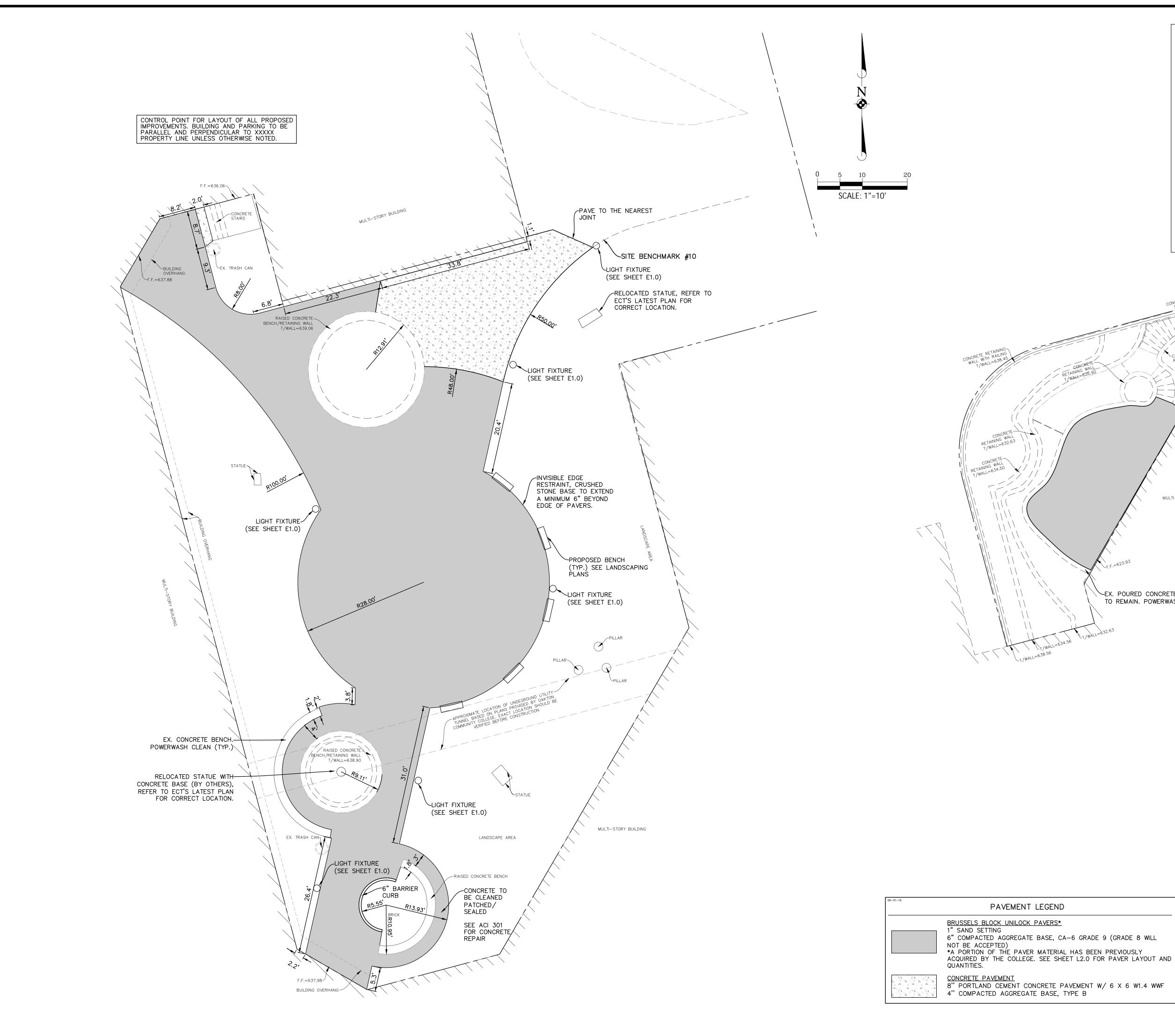
MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

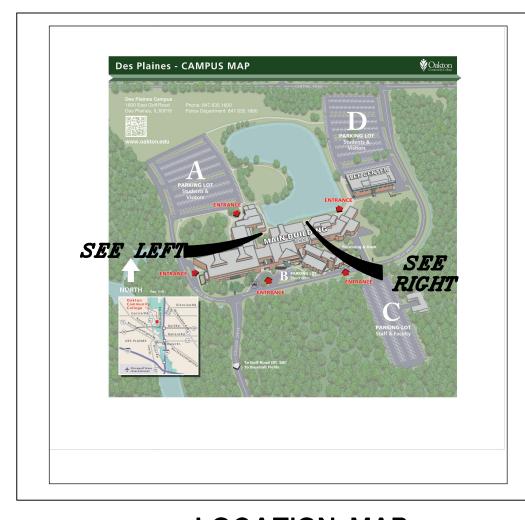


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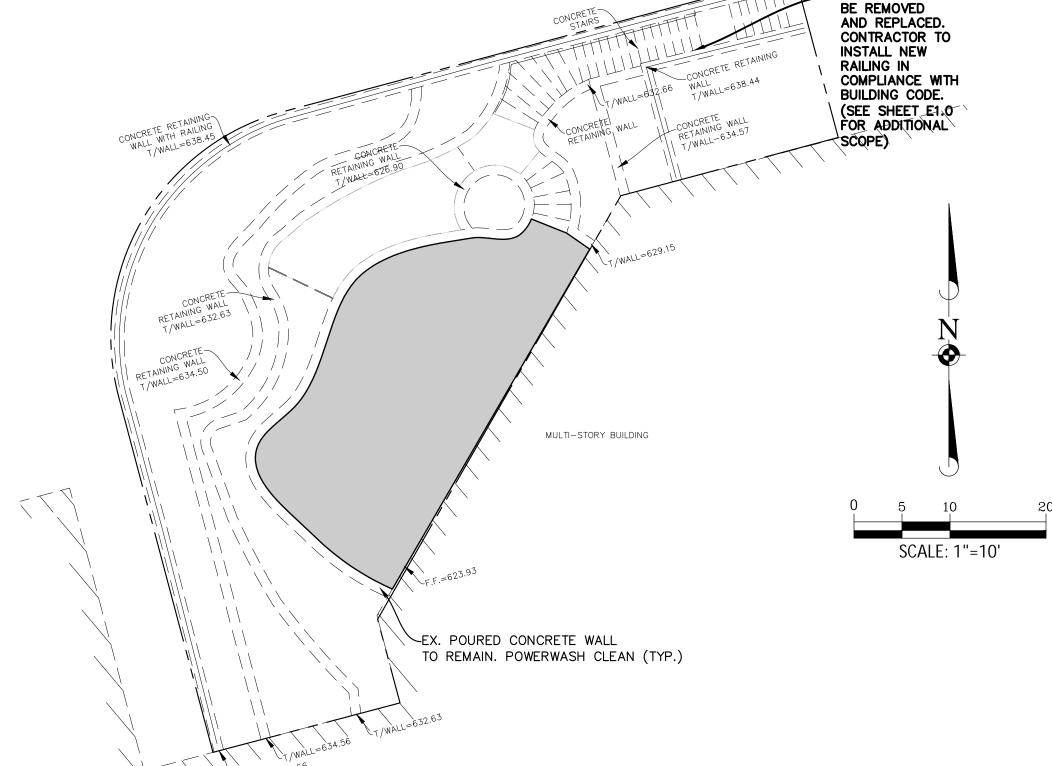
1"=10' SHEET





### **LOCATION MAP**

-RAILING TO



### SITE DIMENSIONAL AND PAVING NOTES:

- ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
- ALL PROPOSED CURB AND SHALL BE B6.12 UNLESS OTHERWISE NOTED. FINISH ALL EXPOSED BACK FACES WITH A RUBBED FACES IMMEDIATELY AFTER REMOVING FORMS.
- ALL CURB RADII SHALL BE 3' MEASURED TO FACE OF CURB UNLESS NOTED OTHERWISE.
- 4. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2-#6 BARS x 18" LONG DOWELED INTO
- BUILDING DIMENSIONS AND ADJACENT PARKING HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. BUILDING DIMENSIONS SHOWN SHOULD NOT BE USED FOR CONSTRUCTION LAYOUT OF BUILDING.
- IMPROVEMENTS ADJACENT TO BUILDING, IF SHOWN, SUCH AS TRUCK DOCK, RETAINING WALLS, SIDEWALKS, CURBING, FENCES, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, AND TRANSFORMERS ETC. HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
- LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DOORWAY. CONTRACTOR TO VERIFY ACTUAL BUILDING PLAN LOCATIONS WITH ARCHITECT/DEVELOPER PRIOR TO CONSTRUCTING THE SIDEWALKS.
- ALL ROADWAY AND PARKING LOT SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
- SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
- 10. PROVIDE DEPRESSED CURB AND RAMP AT ALL HANDICAP ACCESSIBLE SIDEWALK AND PATH LOCATIONS PER FEDERAL AND STATE STANDARDS.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
- (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.

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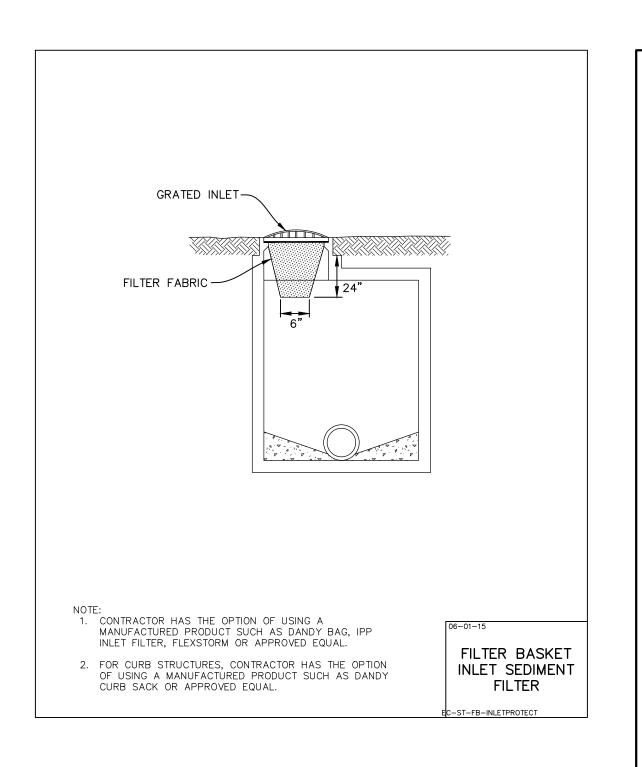
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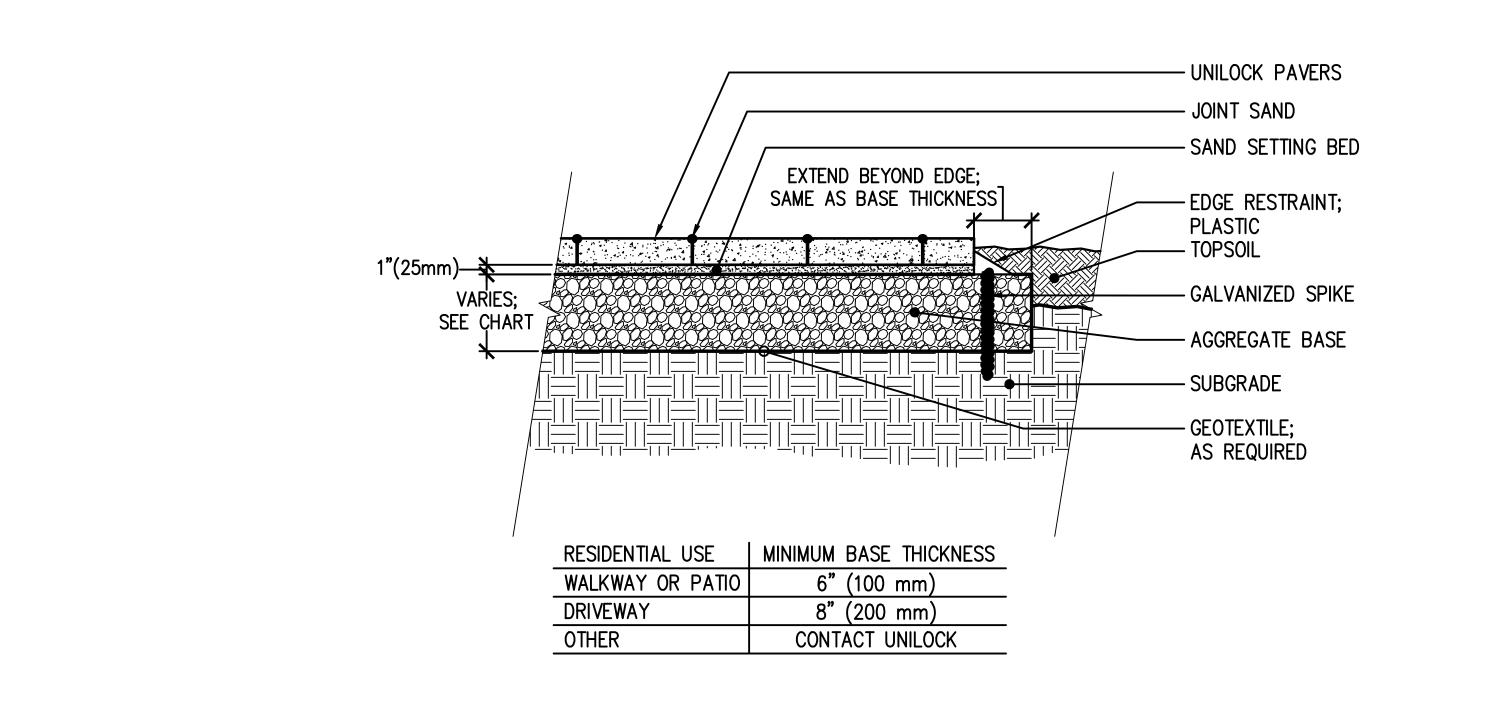
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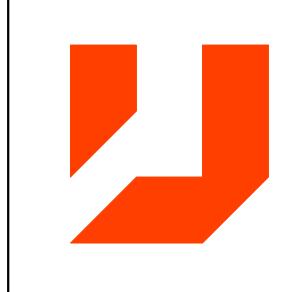
11-04-22 \_1"=XX'

SHEET OCC.DPIL13

TEMPORARY STORM INLET PROTECTION







# RESIDENTIAL APPLICATION PAVER DETAIL

CREATED:	MARCH 1, 2011
REVISED:	MARCH 6, 2014
FILE NAME:	CS-1-PAVER.DWG

# NOTES:

This cross section is intended for preliminary design purposes only. Confirm site conditions and consult with a qualified design professional or installer prior to installation.

# CROSS SECTION

PAVERS ON GRANULAR BASE WITH EDGE RESTRAINT



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> OAKTON COMMUNITY COLLEGE COURTYARD REHABILITATIO CITY OF DES PLAINES, ILLINOIS

PROJ. MGR.: JCM PROJ. ASSOC.: JCM

PRAWN BY: BTV

11-04-22

1"=XX'

### GENERAL CONDITIONS

CONTRACTOR acknowledges and agrees that the use and reliance of these Plans and Specifications is sufficient consideration for CONTRACTOR'S covenants stated herein

### **DEFINITION OF TERMS**

a. "CLIENT" shall mean Oakton Community College, which is the person or entity with whom Manhard Consulting, Ltd. has contracted with to prepare Civil Engineering PLANS and SPECIFICATIONS.

- b. "ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project.
- c. "PLANS and SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of
- the contract documents for the subject project
- d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS.
- e. "JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit and/or review is required for any aspect of the subject project.

### **INTENT OF THE PLANS AND SPECIFICATIONS**

The intent of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials, equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely determined so as to include minor items obviously required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component part. It is not intended, however, that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be supplied unless distinctly so noted. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

### INTERPRETATION OF PLANS AND SPECIFICATIONS

- a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and binding on all parties
- b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction.
- c. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omissions in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions are discovered.

### **GOVERNING BODIES**

All works herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CLIENT and/or the CONTRACTOR shall immediately notify the ENGINEER in writing.

#### LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities and utilities (including but not limited to water mains, sanitary sewers, storm sewers, electric, telephone, gas and cable TV lines), such information represents only the opinion of the ENGINEER as to the approximate location and elevation of such facilities and utilities. At the locations wherein detailed positions of these facilities and utilities become necessary to the new construction, including all points of connection, the CONTRACTOR shall furnish all labor and tools to verify or definitely establish the horizontal location, elevation, size and material (if appropriate) of the facilities and utilities. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to construction if any discrepancies in existing utility information or conflicts with existing utilities exist. The ENGINEER assumes no responsibility whatever with respect to the sufficiency or accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground facilities and utilities, nor the manner in which they are removed or adjusted.

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intent to begin construction and to verify the actual location of all such facilities and utilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or adjusting these facilities

**UNSUITABLE SOILS** The PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CLIENT or CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvement according to the line and grades shown on the PLANS.

#### All trees that are not to be removed shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT. NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., water, sewer, electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location and elevation of underground pipes, conduits or cables

TRAFFIC CONTROL The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, require the CONTRACTOR to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. Emergency vehicle access shall be maintained at all times. Unless authorized by the CLIENT or CLIENT's construction representative, all existing access points shall be maintained at all times by the CONTRACTOR. The need for traffic control shall be anticipated by the CLIENT.

**PROTECTION OF TREES** 

adjoining or crossing proposed construction.

The CONTRACTOR, his agents and employees and their employees and all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work area specified by the Client. The CONTRACTOR shall be solely liable for damage caused by him or his agents and employees and their equipment, machinery and vehicles on adjacent property or areas outside designated work areas.

It shall be the responsibility of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of this contract. It is expressly understood that all work and costs connected with the maintenance of these utility poles, their temporary relocations, etc., shall be the responsibility of the CLIENT or the CONTRACTOR. RESTORATION

It is the intent of these SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work, both inside and outside the Project, or when so directed by the CLIENT so that these areas will be restored as nearly as possible to their original condition o better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drain tiles, water mains, etc.

The CONTRACTOR shall at all times keep the premises free from accumulations of waste material or rubbish caused by his employees or work, and at the completion of the work he shall remove all his rubbish, tools, scaffolding and surplus materials and shall leave his work "broom clean" or its equivalent, unless more exactly specified.

### **ROAD CLEANING**

CLEANING UP

The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall immediately remove said mud and/or debris.

### **SAFETY AND PROTECTION**

The CONTRACTOR shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. The CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR's duties and responsibilities for safety and for protection of the work shall continue until such time as all work is completed and the CLIENT has notified CONTRACTOR that the work is acceptable. The duties of the ENGINEER do not include review of the adequacy of either the CONTRACTOR's or the general public's safety in, on, or near the construction site. HOLD HARMLESS

To the fullest extent permitted by law, any CONTRACTOR; material supplier or other entity by use of these plans and specifications hereby waives any right of contribution and agrees to indemnify, defend, save and hold harmless the CLIENT and ENGINEER and its agents, employees and consultants from and against all manner of claims, causes, causes of action, damages, losses and expenses, including but not limited to, attorneys' fees arising out of, resulting from or in connection with the performance of any work, pursuant to or with respect to these plans and specifications. However, this indemnity shall not be construed to indemnify ENGINEER, its consultants, agents or employees against its own negligence.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage occurring by reason of the failure of or use or misuse of any hoist, riggings, blocking, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished or loaned by any part or entity, including any contractor; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity; (3) costs for time expended by the indemnified party and its employees, at its usual rates plus costs or travel, long

distance telephone and reproduction of documents and (4) consequential damages. In any and all claims against the CLIENT or ENGINEER or any of their agents or employees and consultants by any party, including any employee of the CONTRACTOR or any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount of type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts or any insurance

### maintained by CONTRACTOR or any Subcontractor or any other party.

Any party using or relying on these plans, including any contractor, material supplier, or other entity shall obtain, (prior to commencing any work) general public liability insurance insuring against all damages and claims for any bodily injuries, death or property damage arising out of any work, including the construction work provided for in these plans, and shall name the CLIENT and ENGINEER and its consultants, agents and representatives as additional insureds under such insurance policy; provided that any party using or relying on these plans having obligations to maintain specific insurance by reason of any agreement with CLIENT or any CONTRACTOR or ENGINEER shall provide evidence and certificates of insurance as required by such contract or agreement. Such insurance must contain a clause stating that the insurance is primary coverage for ENGINEER and ENGINEER's other applicable coverage is considered secondary. Such insurance shall not limit any liability of any party providing work or services or providing materials.

### THIRD PARTY BENEFICIARY

Manhard Consulting, Ltd., the ENGINEER, is intended to be a third party beneficiary of this willing agreement and requirement. Note: These Specifications are for Northern Illinois.

services. The CONTRACTOR is responsible for paying for all fees and charges.

will be the responsibility of the CONTRACTOR and no extra compensation will be provided.

I. DEMOLITION The CONTRACTOR shall coordinate with respective utility companies prior to the removal and/or relocation of utilities. The CONTRACTOR shall coordinate with the utility company concerning portions of work which may be performed by the Utility Company's forces and any fees which are to be paid to the utility company for their

**DETAILED SPECIFICATIONS** 

Should removal and/or relocation activities damage features indicated to remain, the CONTRACTOR shall provide new materials/structures in accordance with the contract documents. Except for materials designed to be relocated on this plan, all other construction materials shall be new.

Prior to demolition occurring, all erosion control devices are to be installed. All existing utility lines and conduits located under proposed buildings shall be removed and properly backfilled. All utility lines and conduits located under drives, on-site

roads, parking lots or sidewalks shall be filled with a flowable backfill and end plugged. All existing structures shall be removed. All existing utility lines located under landscape areas shall be left in place and plugged at all structures. The CONTRACTOR is responsible for demolition, removal and disposal (in a location approved by all JURISDICTIONAL GOVERNING ENTITIES) of all structures, pads,

walls, flumes, foundations, road, parking lots, drives, drainage structures, utilities, etc., such that the improvements shown on these plans can be constructed. All demolition work shall be in accordance with all applicable federal, state and local requirements. All facilities to be removed shall be undercut to suitable material and brought to grade with suitable compacted fill material per the specifications. The CONTRACTOR is responsible for obtaining all permits required for demolition and disposal.

Electrical, telephone, cable, water, fiber optic cable and/or gas lines needing to be removed shall be coordinated by the CONTRACTOR with the affected utility company. CONTRACTOR must protect the public at all times with fencing, barricades, enclosures, and other appropriate best management practices.

responsible for any required water main shut offs with the JURISDICTIONAL GOVERNING ENTITY during construction. Any costs associated with water main shut offs

Continuous access shall be maintained for surrounding properties at all times during demolition All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by emergency vehicles.

The CONTRACTOR shall coordinate water main work with the Fire Department and the JURISDICTIONAL GOVERNING ENTITY to plan the proposed improvements and to ensure adequate fire protection is available to the facility and site throughout this specific work and through all phases of construction. CONTRACTOR shall be

control procedures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation

The locations of all existing utilities shown on this plan have been determined from the best information available and are given for the convenience of the CONTRACTOR and are not to be interpreted as the exact location, or as the only obstacles that may occur on the site. The ENGINEER assumes no responsibility for their accuracy. Prior to the start of any demolition activity, the CONTRACTOR shall notify the utility companies for location of existing utilities and shall verify existing conditions and proceed with caution around any anticipated features

CONTRACTOR shall maintain all existing parking areas, sidewalks, drives, etc. clear and free from any construction activity and/or material to ensure easy and safe

CONTRACTOR may limit saw-cut and pavement removal to only those areas where it is required as shown on these construction plans, however if any damage is

the Illinois Water Well Construction Code, Department of Public Health, and all applicable local rules and regulations. CONTRACTOR is responsible for obtaining all

Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with

Voids left by any item removed under any proposed building, pavement, walk, etc. or within 24" thereof shall be filled and compacted with suitable materials by the

Any material containing asbestos found within existing structures shall be removed from the site and disposed of off-site by the CONTRACTOR in accordance with

CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust

The CONTRACTOR shall be responsible for the disconnection of utility services to the existing buildings prior to demolition of the buildings.

JURISDICTIONAL GOVERNING ENTITY regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of

with the facility manager to minimize disturbance and inconvenience to facility operations.

permits required by JURISDICTIONAL GOVERNMENTAL ENTITIES for abandoning existing wells.

incurred on any of the surrounding pavement, etc. the CONTRACTOR shall be responsible for ITS removal and repair

pedestrian and vehicular traffic to and from the site. CONTRACTOR shall coordinate/phase all construction activity within proximity of the building and utility interruptions

Any existing wells encountered shall be exposed and sealed 3' below proposed finish grade by the CONTRACTOR in accordance with Section 920.120 (latest edition) of

The CONTRACTOR is responsible for removing the existing irrigation system in the areas of proposed improvements. The contractor shall cap the existing irrigation system to remain such that the remaining system shall continue to function properly. The parking lot shall be completed in sections such that it does not interrupt the facility operations. The CONTRACTOR shall coordinate with the construction manager

### **II.EARTHWORK**

for work to be performed.

by the CONTRACTOR.

CONTRACTOR.

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition except as modified below.

Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location between borings. The CONTRACTOR is required to make its own borings, explorations and observations to determine soil and groundwater conditions.

### **EARTHWORK CALCULATIONS AND CROSS SECTIONS**

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENGINEER are for information only and are provided without any quarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes. The ENGINEER makes no representation or guarantee regarding earthwork quantities or that the earthwork for this project will balance due to the varying field conditions, changing soil types, allowable construction to tolerances and construction methods that are beyond the control of the ENGINEER. CLEARING, GRUBBING AND TREE REMOVAL

The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from damage. \*TOPSOIL STRIPPING

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavements areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in stockpiles in locations as designated by the CLIENT. Existing topsoil should not be stripped from future planting areas

Upon completion of roadway and/or parking lot improvements and installation of underground utilities a minimum of six inches (6") of topsoil shall be respread over all unpaved areas which have been disturbed by earthwork construction, except building pads and other designated areas, which shall be kept free from

### Upon completion of topsoil respread, the CONTRACTOR shall apply seed and fertilizer to all respread areas in accordance with IDOT standards or as designated on landscape drawings and specifications provided by the CLIENT.

Upon completion of topsoil respread, the CONTRACTOR shall install sod to all areas designated on the plans or as designated on the landscape drawings

#### and specifications provided by the CLIENT **EXCAVATION AND EMBANKMENT**

SEEDING

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS. All suitable excavated materials shall be hauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment.

Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches; handling of sewer spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of the roads, building pads and parking lots within the work limits to lines & grades shown on the plans. He shall be responsible for obtaining compaction in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report or are approved by the CLIENT, and to use any method

oved by the CLIEN	Γ necessary to obt	ain this compact	on (i.e., soil fabric or any un	dercutting that may be require	ed).
	Percent				
	Compaction	Pavement &			
Type Material	Standard	Floor Slabs	Grass Areas		
Sandy Soils	Modified Proctor	95%	90%		

Clayey Soils Standard Proctor 95% The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if moisture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site.

### For purposes of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer:

- Any soil whose optimum moisture content exceeds 25%.
- 2. Any cohesive soil with an unconfined compressive strength of 1.5 tons per square foot or less.
- 3. Any soil whose silt content exceeds 60% by weight

Sedimentation Control ordinances and the PLANS

4. Any soil whose maximum density is less than 100 pounds per cubic foot. 5. Any soil containing organic, deleterious, or hazardous material.

Upon completion of excavation and shaping of the water retention areas intended to maintain a permanent pool of water, all silt seams and granular or sandy soils shall be removed to a minimum depth of three feet below the subgrade and replaced with an impermeable clay liner, including adjacent to and under storm sewer inlets and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes and compaction thereof such that the lakes will maintain the proposed normal water level and that leakage does not exceed ½ inch per week. Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in

construction of the embankments. The CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the JURISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in washed gravel or open storm sewer joints wrapped with fabric, the CONTRACTOR shall install the same.

During excavation and embankment, grades may be adjusted to achieve an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the CLIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise CLIENT if he pelieves that the earthwork will not balance

It is the intent of these PLANS that storm waters falling on the site be diverted into sedimentation / lake / detention basins during construction. The CONTRACTOR shall construct and maintain any temporary ditches or swales that are necessary to accomplish this prior to beginning mass excavation. **EROSION CONTROL** Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and

UNDERCUTTING DURING EARTHWORK If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the

### subgrade does not meet the standards set forth above, the CLIENT may require undercutting. The following items may be required at the CLIENT's option, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY:

(1) GEOTEXTILE FABRIC Geotextile fabric or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY where proper compaction of embankments over existing soft soils is not possible. Geotextile fabric shall meet the material specifications of and shall be installed in accordance with the above standards.

(2) EROSION CONTROL BLANKET Erosion control blanket or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY for the stabilization of disturbed areas. Erosion control blanket shall meet the material specifications of and

### shall be installed in accordance with the above standards, the Illinois Urban Manual and/or the details shown on the PLANS. III.UNDERGROUND IMPROVEMENTS

### A. GENERAL

All underground improvements shall be constructed and tested in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition. In the event of conflicting

### guidelines, the more restrictive shall govern.

Selected Granular Backfill shall be required for all sewer and water main trenches lying under existing or proposed streets, driveways, parking lots and within 24" thereof, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards. MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

All Manholes, Catch Basins, Inlets, and Valve Vaults shall be constructed of reinforced precast concrete ring construction with tongue and groove joints in conformance with the latest revision of ASTM designation C-478. All joints between sections and frames (except sanitary manholes, see Section IIIB Manholes, below) shall be sealed with mastic type bituminous jointing compound. CONTRACTOR shall remove all excess mastic on inside of structure and butter joints with mortar. Manholes are to have offset cones except that no cone shall be used on storm manholes 6'-0" deep or less in which case a reinforced concrete flat top section shall be used, and Valve Vaults shall have concentric cones. Only concrete adjustment rings will be permitted where necessary and shall be limited to two adjustment rings totaling not more than 8" in height. All manholes and catch basin steps shall be copolymen polypropylene with continuous ½" steel reinforcement as manufactured by MA Industries, or approved equal.

### AUGER/BORING AND CASING

Casing pipe shall be welded steel pipe, installed where shown on the PLANS. The carrier pipe shall be securely blocked and banded and sanitary and storm sewers shall maintain the specified gradient. Upon installing the carrier pipe the ends shall be sealed with hydraulic cement **AUGER (OPEN BORE)** 

The CONTRACTOR shall auger (open bore) where noted on PLANS.

HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

Horizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois Section 41-2.01A and 41-2.01B and Standard Drawing 18, 19, 20, 21, 22, 23 and 24.

#### STRUCTURE ADJUSTMENTS Structures shall be adjusted to the finished grade as shown on PLANS.

B. \*SANITARY SEWERS AND APPURTENANCES - INTENTIONALLY OMITTED

### C. WATER MAINS AND APPURTENANCES

#### WATER MAIN PIPE (3" AND LARGER) Water main pipe shall conform to the following:

- (1) Ductile iron pipe shall be per ANSI/AWWA C151/A21.51, Thickness Class 52, minimum 150 psi working pressure, cement lined in accordance with ANSI/AWWA C104/A21.4, with "push on" type ioints.(2)
- (2) Polyvinyl Chloride Pipe (PVC) conforming to the latest revision of ANSI/AWWA C900 (4-inch thru 12-inch) or ANSI/AWWA C905 (14-inch thru 48-inch) with a pressure rating of 235 psi, SDR 18 in accordance with ASTM D2241. Joints shall be pressure rated in accordance with ASTM D3139 with elastomeric seals in accordance with ASTM F477.

Installation shall be in accordance with ANSI/AWWA C600 (Ductile Iron) or ANSI/AWWA C605 (PVC). All water main shall have mechanical joint cast iron or ductile iron fittings in accordance with ANSI/AWWA C110/A21.10 or compact ductile iron fittings in accordance with ANSI/AWWA C153/A21.53 with 250 psi working pressure

Poured or monolithic concrete thrust blocks are required to brace all tees, plugs, caps, and bends of 11 1/4 degree deflection or greater. Minimum cover for all water mains, including services, shall be 5'-6" from the finished grade. Water main shall include bedding and backfilling.

#### All valves shall be resilient wedge gate valves conforming to the latest revision of ANSI/AWWA C515, with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves conforming to ANSI/AWWA C504 shall be constructed on all water mains 16" diameter and larger. Valves shall be non-rising stem and shall close by turning clockwise.

VALVE VAULTS Valve vaults shall be constructed in conformance with Section IIIA Manholes, etc. above. Frame and lids shall be as approved by the JURISDICTIONAL GOVERNING ENTITY and shall be imprinted "WATER"

VALVE BOXES Valve boxes shall be constructed in conformance with the standard detail. Valve boxes shall be cast iron extension screw type having lids imprinted with the letters "WATER".

### FIRE HYDRANTS

WATER VALVES

Fire Hydrants shall be per JURISDICTIONAL GOVERNING ENTITY requirements. All fire hydrants shall be located as shown on the PLANS and shall be painted in a manner acceptable to the JURISDICTIONAL GOVERNING ENTITY after installation and shall be adjusted to final grade.

TAP, STOPS AND BOX The CONTRACTOR shall determine from the JURISDICTIONAL GOVERNING ENTITY as to the exact style, type, and manufacture of corporation stops, ground key stops and services boxes preferred by the JURISDICTIONAL GOVERNING ENTITY and shall furnish same.

Water services shall be type K copper size as shown on PLANS, and constructed where shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted blue. The CONTRACTOR shall keep accurate records of tap locations and service box locations, as well as the service lengths and furnish same to CLIENT. Water services shall include bedding and backfilling.

Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples collected at sampling taps on at least two consecutive days following disinfection of the mains and copies of the said report submitted to the JURISDICTIONAL GOVERNING ENTITY and the CLIENT.

### PRESSURE TEST

Allowable leakage, test pressure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY.

### PRESSURE CONNECTION TO EXISTING WATER MAIN

SMALL WATER SERVICES (2" DIAMETER OR LESS)

The CONTRACTOR shall maintain system pressure on existing water main at all times. Existing water main shall be located and material excavated, and valve basin slab and main supports installed. The existing water main shall be cleaned and the exterior disinfected prior to installing the tapping tee (material to conform to AWWA C110). The tapping valve shall be installed (valve to conform to AWWA C500) and the pressure tap completed in accordance with the detail on the plans. Valve shall be constructed in conformance with the detail. Payment for pressure connection to existing water main shall include disinfection, tapping valve and tee, valve vault, frame and lid, bedding, and trench backfill.

#### DRY CONNECTION TO EXISTING WATER MAIN

A dry connection to existing water main shall include a connection to an existing water main stub where shown on the PLANS. The CONTRACTOR shall obtain approval of the JURISDICTIONAL GOVERNING ENTITY to shut down any main, including submittal of a schedule of the time of shut off and the time the line will be returned to service. All mains shut down that are opened to atmosphere must be disinfected prior to returning main into service. POLYETHYLENE ENCASEMENT (FOR DUCTILE IRON WATER MAIN ONLY)

The CLIENT, or JURISDICTIONAL GOVERNING ENTITY may request that portions of the water main be enclosed in a polyethylene encasement in accordance with ANSI/AWWA C105/A21.5 should soil conditions so warrant its use.

### Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on

TRACER WIRE n valves when installing PVC pipe exceeds 1,000', tracer wire stations will be required for ci be Rhino TriView Flex Tracing Wire Stations or approved equal. In paved areas, they will be Valvco Tracer Wire Access Box for H2O loading or approved equal For open cut construction, using PVC pipe, a continuous, insulated, 12 gauge copper wire suitable for direct burial shall be taped on top of all piping to provide for locating following construction. This wire shall be securely terminated inside every valve yault on stainless steel hardware with an exposed lead of at least 12". A mechanically secure and soldered connection shall be provided for all wire splices. Where construction is by directional drilling or similar trenchless technology the tracer wire shall be 3/16" 7x19 PVC coated stainless steel aircraft cable with minimum breaking strength of 3,700 lbs (Lexco, Chicago, IL). Or Trace-Safe water blocking tracerwire RT series 19 gauge conductor (RT 1802W water, RT 1803W sewer).

### Before final approval of any water main, there will be a monitored tracer wire continuity test in order to confirm proper installation of any tracer wire

### D. STORM SEWERS AND APPURTENANCES

FOUNDATION, BEDDING AND HAUNCHING

STORM SEWER PIPE

- Storm sewer pipe shall conform to the following: (1) Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation C76 with C443 flexible gasket joints, except that bituminous mastic joints may be used in grass areas.
- (2) Polyvinyl Chloride (PVC) Pipe: ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 36-inch), rated SDR 35, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall be flexible elastomeric seals conforming to ASTM D3212.
- (3) Ductile Iron Pipe (DIP) shall conform to ANSI/AWWA C151/21.5, Class 50 cement lined with push on type joints conforming to ANSI/AWWA (4) Spiral Rib Metal Pipe Type 1R: 18-inch diameter and greater. Pipe ends shall be re-corrugated and installed with semi-corrugated Hugger type

brands and "O" ring gaskets. (Only permitted with Municipality approval and/or when specifically indicated on PLANS)

- (5) High Density Polyethylene Pipe (HDPE) Smooth Interior, AASHTO Designation M252 and M294, maximum diameter of 48 inches. Pipe joints and fittings shall be watertight gasketed joints. No band seals will be allowed. (Only permitted in landscape areas with Municipality Approval and/or when specifically indicated on PLANS). (6) Polypropylene (PP) Pipe shall have a smooth interior and annular exterior corrugations and shall meet or exceed ASTM F2881 and AASHTO M330.
- Pipe shall be joined with a gasketed integral bell & spigot joint meeting the requirements of ASTM F2881. PP Pipe shall be watertight according to the requirements of ASTM D3212. Spigots shall have gaskets meeting the requirements of ASTM F477. (Only permitted with Municipality Approval and\or when specifically indicated on PLANS.) (7) Polyvinyl Chloride (PVC) large diameter closed profile gravity sewer pipe, UNI-B-9: ASTM F794. (Only permitted with Municipality Approval and/or
- (8) Corrugated Steel (Metal) Pipe (CSP or CMP), ASTM A760, 16 gauge unless noted on PLANS. Corrugated steel pipe may be round pipe, arch pipe, or slotted drainpipe as indicated on PLANS. Slotted drainpipe shall have 1.75 inches wide drain waterway openings and 6 inches minimum height drain guide. (Only permitted with Municipality approval and/or when specifically indicated on PLANS).

Precast tees, bends, and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY.

### Storm sewer shall include bedding and trench backfill.

FOUNDATION, BEDDING AND HAUNCHING

CONNECTION FOR STORM SERVICE TO STORM MAIN

when specifically indicated on PLANS)

MANHOLES, INLETS & CATCH BASINS Manholes, Inlets and Catch Basins shall be constructed in conformance with Section IIIA Manholes, etc. above. The space between connecting pipes and the wall of the manhole shall be completely filled with non-shrink hydraulic cement mortar. Frames and lids shall be Neenah or approved equal unless specified otherwise on the PLANS. All frames and grates shall be provided such that the flange fully covers the opening plus 2" of the structure as a minimum. \* Provide "Vane" Type frame & grate for all structures located in curb where gradient exceed 2.0%. Manholes shall include steps, frame & grate, bedding and trench

#### FLARED END SECTION Flared end sections shall be pre-cast reinforced concrete flared end section with an end block cast separate as per the Illinois Department of Transportation Standard 542301 and shall be installed where shown on the PLANS. All flared end sections for storm sewers 12" in diameter and larger shall be installed with

a grating per Standard 542311 and/or as detailed on the PLANS. Work shall include end block.

### Stone rip rap consisting of pieces of "A" quality stone 4" to 8" in diameter shall be furnished and installed in accordance with IDOT Specifications and shall be placed where shown on the plans, to a minimum thickness of 12" and a width as indicated on the plans. Broken concrete or concrete blocks will not be

UNDERDRAINS Pipe underdrains shall be corrugated flexible plastic pipe conforming to AASHTO Designation M252 perforated corrugated polyethylene pipe (PE) with a smooth interior of the diameter indicated on the PLANS and wrapped in a soil filter fabric supplied and installed by the CONTRACTOR. Perforations may be

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on

circular or slotted, but shall provide a minimum inlet area of 1.0 square inch per 2.0 linear feet of pipe. CONTRACTOR shall submit fabric and pipe catalogue

Specifications for approval by the CLIENT. CONTRACTOR shall bed and backfill the underdrain in one of the following IDOT gradations of aggregate (CA-5,

Connections of storm sewer services to storm sewer mains should be made with manufactured tees when available. Availability of manufactured tees will be a

function of the storm sewer material and pipe diameter size of the service sewer and main. If manufactured tees are not reasonably available, connections

### CA-7, CA-11, CA-14 or CA-15). **MISCELLANEOUS**

(1) All existing field drainage tile or storm sewers encountered or damaged during construction shall either be restored to their original condition, properly rerouted and/or connected to the storm sewer system. (2) Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or drainage tile shall not be connected to the sanitary sewer.

IV. ROADWAY AND PARKING LOT IMPROVEMENTS

Work shall be completed in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition (hereinafter referred to collectively as the "Standard Specifications") except as modified below and except that payment will be defined as detailed in the contract documents between the CLIENT and the CONTRACTOR. Supplementing the Standard Specifications shall be the applicable sections of the latest editions of the "Supplemental Specifications and Recurring Special Provisions", the "Manual on Uniform Traffic Control Devices for Streets and Highways" and the Illinois Supplement thereto, (hereinafter referred to collectively as the "MUTCD"). Any references to "ENGINEER" in the "Standard Specifications" shall be interpreted as the CLIENT or CLIENT's Construction Representative.

should be made in accordance with manufacturer's recommendations for all storm sewer other than concrete pipe. For concrete pipe connections without

service sewer shall be cut flush with the inside wall of the sewer main and not extend into the inside flow area of the main or otherwise impede flow.

manufactured tees the storm sewer main shall be machine cored and the service sewer connected using non-shrink grout for the void between pipes. The

### SUBGRADE PREPARATION

The CONTRACTOR shall be responsible for all subgrade compaction and preparation to the lines and grades shown on the plans.

### AGGREGATE BASE COURSE TYPE 'B'

Aggregate Base Course Type B shall be limited to CA-6 or CA-10 gradation. Aggregate base courses shall be proof rolled as outlined below. PROOF ROLL

The CONTRACTOR shall proof roll the subgrade with either a 2-axle truck loaded to 27,000 lbs. Or a 3-axle truck loaded to 45,000 lbs. or as specified by the JURISDICTIONAL GOVERNING ENTITY. The CLIENT and JURISDICTIONAL GOVERNING ENTITY shall observe and approve the proof rolling of the subgrade and the base course. Proof rolling tolerances shall be a maximum deflection of 1" for the subgrade and ½" for the base course. The above criteria is intended as a maximum deflection standard and that proof rolling of a majority of the area will have less deflection than specified above. In any case of deficiency, the subgrade and/or base course shall be repaired and retested before proceeding with the pavement construction.

Pavement subgrade material shall not be removed, placed or disturbed after proof roll testing has been completed prior to the pavement construction. Additional testing will be required if the pavement subgrade is disturbed and/or material is removed from or placed on the pavement subgrade after proof

### Trucks or heavy equipment shall not travel on any pavement subgrade after final testing prior to pavement construction.

HMA Base Course shall meet the requirements of IDOT or N50 mix design as indicated and shown on the plans. The maximum amount of recycled asphalt pavement allowed shall be 30% in a N30 mix design and 25% in a N50 mix design.

### HOT-MIX ASPHALT BINDER AND SURFACE COURSE

HMA binder and surface courses, shall be constructed to the compacted thickness as shown on the PLANS. The base course shall be cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. The surface course shall be placed after the base and courses have gone through one winter season, or as directed by the CLIENT. Before applying the surface course, the binder course shall be thoroughly cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY Prior to the placement of the surface course, the JURISDICTIONAL GOVERNING ENTITY shall examine the completed pavement, including curb and gutter, and all failures shall be corrected by the CONTRACTOR.

### CONCRETE PAVEMENTS

**HOT-MIX ASPHALT BASE COURSE** 

Concrete pavements shall be constructed in accordance with American Concrete Institute Standard ACI330R-08 and as shown on the PLANS. Slabs and driveway aprons shall be constructed with 6" x 6" - W1.4 x W1.4 welded wire fabric positioned on steel chair supports. Placing fabric during the concrete pouring operation will not be allowed

Sawing of joints shall commence as soon as the concrete has cured and hardened sufficiently to permit sawing without excessive raveling, but no later than eight hours after the concrete has been placed. All joints shall be sawed to a depth equal to 1/3 of the pavement thickness before uncontrolled shrinkage cracking take place. If necessary, the sawing operation shall occur during the day or at night, regardless of weekends, holidays or weather conditions. The CONTRACTOR shall be aware of jurisdictional noise ordinances and holiday restrictions for scheduling purposes.

The CONTRACTOR is responsible to guard fresh concrete until it sets and hardens sufficiently to prevent people from writing, walking, riding bicycles or otherwise permanently marking, defacing or causing depressions of any type in the concrete. Any concrete so marked will be removed and replaced by the CONTRACTOR at the CONTRACTOR's expense. The CONTRACTOR shall protect the pavement against all traffic, including that of their own employees or other workers, until test specimens have attained

### the specified strength.

All sidewalks shall be IDOT Class SI concrete, on aggregate base as shown on the detail. A 3/4" expansion joint shall be provided when meeting existing **CURB AND GUTTER** 

#### Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb and gutter. All contraction and expansion joints shall be constructed as per the detail.

CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT The CONTRACTOR shall saw cut and remove the existing concrete curb where shown on the PLANS and install a curb of similar cross section and pavement to that removed (or depressed curb and gutter if shown on the PLANS). Upon completion of the curb and gutter any voids between the existing pavement and the new curb shall be filled with concrete to within 2" of the final surface, which is to be filled with bituminous pavement. The area behind the curb shall be filled and compacted with embankment material within 6" of the top of the new curb. The CONTRACTOR shall then restore the remaining 6" to its original condition (i.e., sod, gravel, topsoil). Where proposed curb connects to an existing curb, the existing curb shall be saw cut and then two 18" long x 3/4" (#6) dowel bars shall be drilled and installed 9" into the existing and proposed curb. Bars shall be installed in a location similar to the expansion joint in the curb. FRAME ADJUSTMENTS

The road contractor shall be responsible for making final adjustments and the setting on a bituminous mastic jointing compound all castings located in the roadway, sidewalks, and parking areas prior to construction of any curbing, sidewalk, or final surface. Any structures that need to be lowered, or raised in excess of 4" shall be completed and the work backcharged against the underground contractor. This Contractor shall also be responsible for cleaning all of the above structures immediately upon completion of his phase of work. This work shall be incidental to the cost of the pavement.

#### The CONTRACTOR shall furnish and apply painted marking lines, letters & symbols of the patterns, sizes and colors where shown on the PLANS. Paint pavement marking shall be applied in accordance with the IDOT Standard Specifications. **PAVEMENT MARKING - THERMOPLASTIC**

The CONTRACTOR shall furnish and apply extruded thermoplastic pavement marking lines, letters and symbols of the patterns, sizes and colors where shown on the PLANS. Thermoplastic pavement marking shall be installed in accordance with the IDOT Standard Specifications. **QUALITY CONTROL** 

The CONTRACTOR shall provide all testing necessary to ensure improvements are in accordance with the project specifications and provide testing

#### documentation that specifications were met \*UNIT PAVING See Bid Package for paver specifications.

PAVEMENT MARKING - PAINT

KKKKKK Concrete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be thickened to a minimum of 6" at all driveways.

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PROJ. MGR.: JCM PROJ. ASSOC.: JCM

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS AND THE VILLAGE SPECIFICATIONS THE VILLAGE SPECIFICATIONS TAKE PRECEDENCE.

S Ō CITY

11-04-22 N.T.S SCALE: SHEET

### PLANT REMOVAL PROCEDURES:

- INSTALL PLANT PROTECTION FENCING AND FOLLOW PLANT PROTECTION PROCEDURES IN 015639.
- TRANSPLANT BUXUS X 'GREEN MOUNTAIN' TO LOCATIONS SHOWN ON
- THE PLANS. REMOVE ALL LARGE WOODY PLANT MATERIAL WITHIN THE PROJECT AREA
- NOT OTHERWISE INDICATED FOR PRESERVATION OR TRANSPLANTING. • CUT OUT STUMPS OF REMOVED WOODY VEGETATION TO A DEPTH OF 18 INCHES BELOW FINISHED GRADE. REMOVE AND DISPOSE OF WOOD CHIPPINGS OFF SITE AND REPLACE WITH IMPORTED TOPSOIL PER SPECIFICATION 329300. ONLY HAND METHODS FOR REMOVAL OF TREES
- AND STUMPS WITHIN PLANT PROTECTION ZONE WILL BE PERMITTED. REMOVE SHRUBS NOT OTHERWISE INDICATED FOR PRESERVATION. DIG OUT ROOT MASS TO A DEPTH OF 18 INCHES. REPLACE HOLE WITH IMPORTED TOPSOIL PER 329300.
- APPLY NON-SELECTIVE HERBICIDE (GLYOPHOSATE) TO EXISTING HERBACEOUS VEGETATION WITHIN THE PROJECT AREA NOT OTHERWISE INDICATED FOR PRESERVATION OR TRANSPLANTING. SPECIES TO BE HERBICIDED INCLUDE: VINCA MINOR (PERIWINKLE), AEGOPODIUM PODAGRARIA (GOUTWEED/GROUND ELDER), SEEDLING-SIZED HIBISCUS SYRIACUS (ROSE OF SHARON). REFER TO SPECIFICATION 311000.

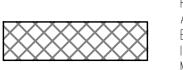
### <u>LEGEND</u>

REMOVE TREE AND GRIND STUMP

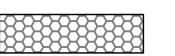
RELOCATE BUXUS X 'GREEN MOUNTAIN',

REMOVE AND GRIND STUMP

SEE PLANTING PLAN PLANT/SOIL PROTECTION FENCE AND LIMIT OF PLANT PROTECTION ZONE. SEE E/L3.0 AND SPECIFICATION 015639



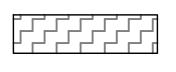
PAVEMENT REMOVAL FOR NEW PLANTING AREA. AFTER REMOVING PAVING AND AGGREGATE BASE, SCARIFY SUBGRADE TO A DEPTH OF 6 INCHES AND INSTALL IMPORTED TOPSOIL TO A MINIMUM DEPTH OF 12 INCHES. LIGHTLY COMPACT AND WATER DOWN BEFORE INSTALLING NEW PLANT MATERIAL, TYP.



AMEND EXISTING TOPSOIL WITH 4 INCHES OF COMPOST. PLACE COMPOST DIRECTLY ON TOP OF EXISTING SOIL AND INTEGRATE WITH A POWERED CULTIVATOR TO A TOTAL DEPTH OF 8 INCHES. FINISHED GRADE OF SOIL AFTER PLANTING AND PRIOR TO MULCHING SHALL BE 3 INCHES BELOW TOP OF RETAINING WALL.



PRESERVE AND PROTECT EXISTING VEGETATION



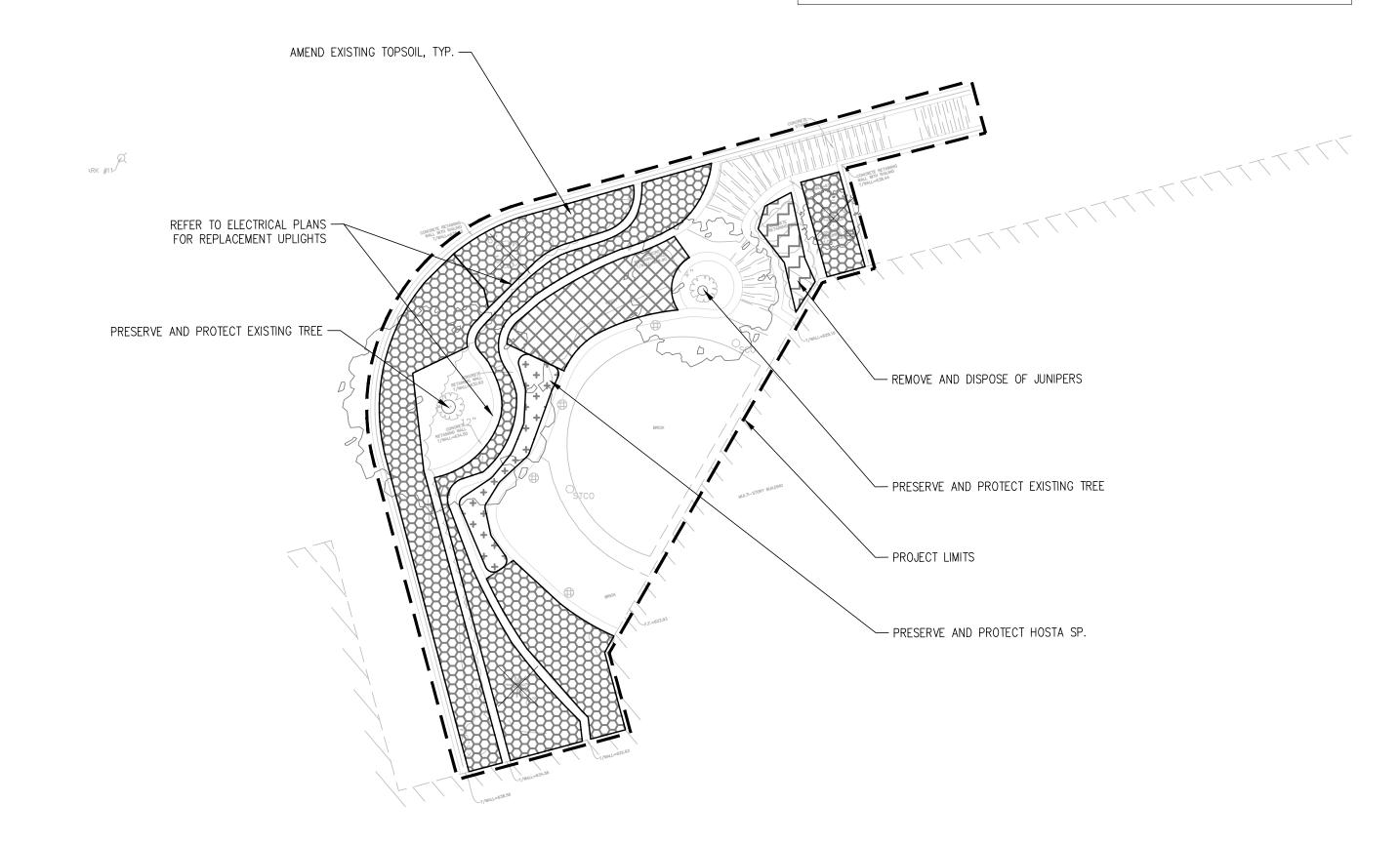
CLEAR AND GRUB WOODY VEGETATION, SEE SPECIFICATION 311000

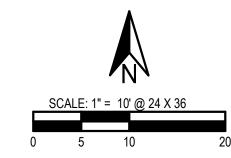
PROJECT LIMITS

6. REMOVE AND DISPOSE OF STEEL EDGING WITHIN LIMITS OF WORK

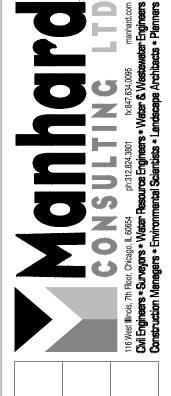
NOTES:

1. REFER TO SHEET 2 FOR SITE DEMOLITION. 2. REFER TO SPECIFICATION 015639 "TEMPORARY TREE AND PLANT PROTECTION". 3. REFER TO SPECIFICATION 311000 "SITE CLEARING". 4. PREPARE A TREE PRUNING SCHEDULE FOR ALL TREES TO REMAIN WITHIN THE PROJECT ARE PER SPECIFICATION 015639. 5. INSTALL GATES WITHIN PLANT PROTECTION FENCE PER SPECIFICATION 015639 AS NEEDED TO ACCESS AREAS DURING PLANTING OPERATIONS.









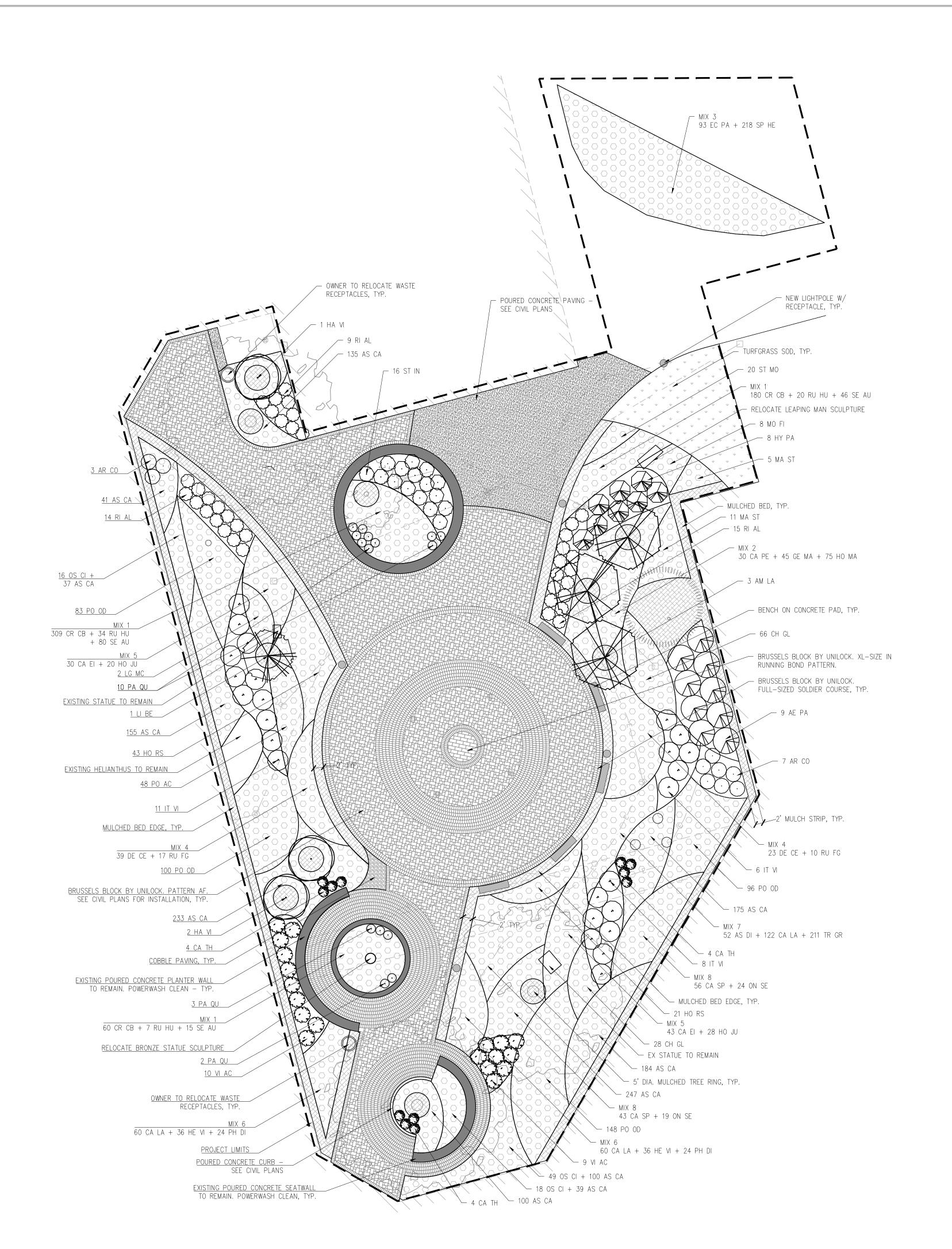
REHABILITATIO

AND

COMMUNIT OAKTON

PROJ. MGR.: JAC DRAWN BY: BEP/IB 10-27-22 \_1"=10' SCALE:

SHEET



### GENERAL PLANTING NOTES

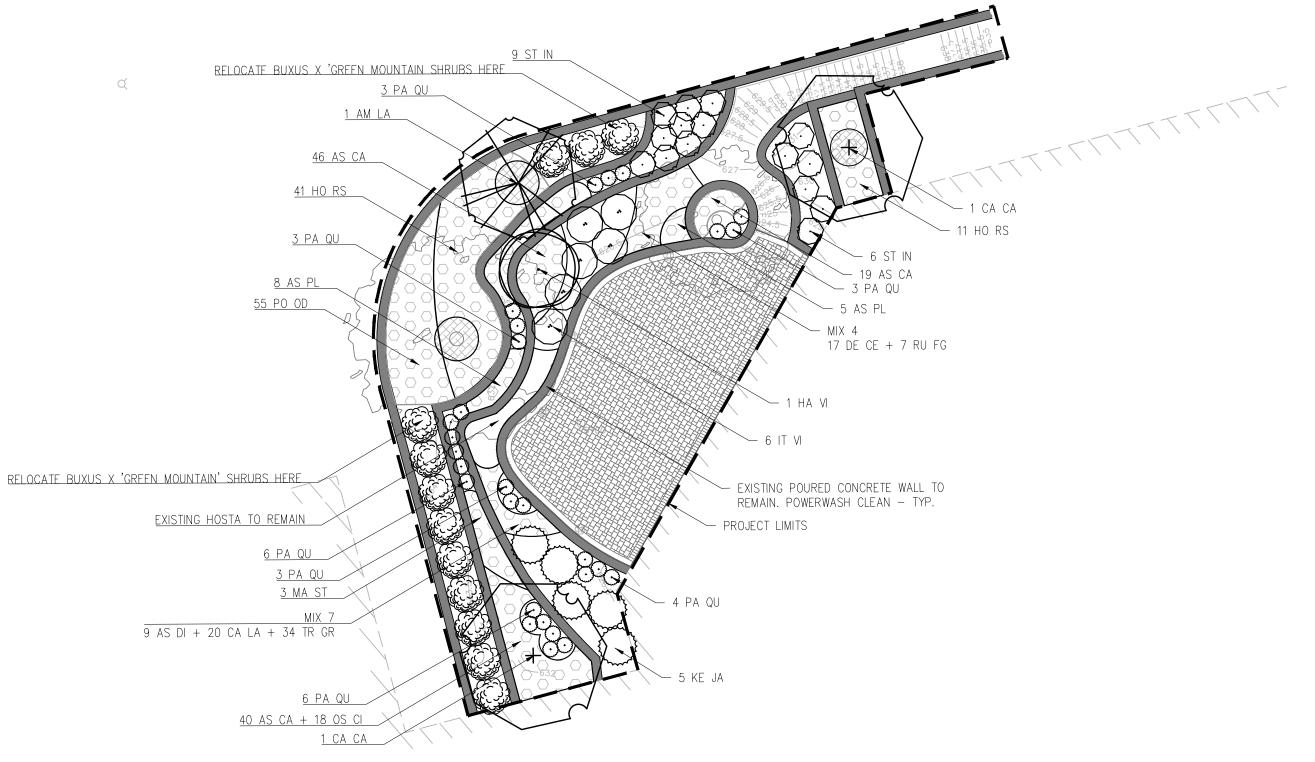
- 1. CONTRACTOR SHALL PROVIDE FRESH TOPSOIL OR AMEND EXISTING TOPSOIL AS INDICATED ON SHEET
- 2. PRIOR TO CONSTRUCTION THE INSTALLER SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION.
- 3. CONTRACTOR TO PROVIDE ALL PLANT MATERIAL AND ACCESSORIES.
- 4. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE/REPLACEMENT OF INSTALLED PLANTS PER THE SPECIFICATIONS. SECTION 329300 INCLUDES A WARRANTY/MAINTENANCE PERIOD OF: 4.1. ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION FOR TURFGRASS;
- 4.2. ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION FOR WOODY TREES AND SHRUBS;
- 4.3. AND TWO YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION FOR HERBACEOUS PERENNIALS
- 5. MAINTENANCE DURING THE WARRANTY/MAINTENANCE PERIOD INCLUDES, BUT IS NOT LIMITED TO: WATERING, HERBICIDE APPLICATIONS, MULCHING, PRUNING, MOWING, AND FERTILIZING.
- 6. NOTE THAT PLANT LIST QUANTITIES ARE FOR THE INSTALLER'S CONVENIENCE ONLY. INSTALLER SHALL VERIFY ALL QUANTITIES.
- 7. ALL PLANTED MATERIAL SIZES AND MEASUREMENTS, INCLUDING TRUNK, HEAD AND SPREAD SIZES, CONTAINER AND ROOT BALL SIZES, QUALITY AND CONDITION SHALL CONFORM TO THE STANDARD SET FORTH IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK."
- 8. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- 9. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT
- 10. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL-HEADED AND MEET ALL REQUIREMENTS
- 11. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER BEFORE, DURING AND AFTER INSTALLATION.
- 12. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS OR WRITTEN SPECIFICATIONS.
- 13. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED. 14. PRIOR TO MULCHING APPLY A PRE-EMERGENT HERBICIDE (APPROVED BY LANDSCAPE ARCHITECT AND OWNER) AS RECOMMENDED BY THE MANUFACTURER TO PREVENT RECURRING WEED AND GRASS
- 15. ALL TREES IN LEAF AFTER BEING DUG AT THE NURSERY SOURCE SHALL BE ACCLIMATED FOR TWO (2) WEEKS MINIMUM UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- 16. ALL LARGE PIECES OF STONE AND CONCRETE RESIDUE OVER 1" IN DIAMETER ARE TO BE REMOVED FROM PLANTING BEDS TO A 18" DEPTH AND REPLACED WITH CLEAN TOPSOIL.

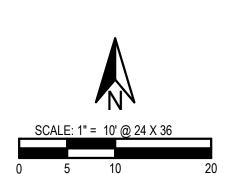
# <u>LEGEND</u> PROJECT LIMITS PROPOSED SMALL TREE. SEE A/L3.00 PROPOSED LARGE SHRUB. SEE B/L3.00 PROPOSED MEDIUM SHRUB. SEE B/L3.00 $\bigcirc\bigcirc\bigcirc\bigcirc$ PROPOSED SMALL SHRUB OR LARGE PERENNIAL. SEE C/L3.00 EXISTING SHADE TREE EXISTING EVERGREEN TREE TRANSPLANTED SHRUB. SEE SPEC 329300, 3.10 SMALL PERENNIALS MULCH BED TURFGRASS SOD

COBBLE PAVING. SEE D/L3.00

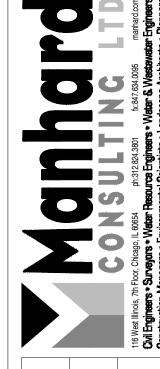
### NOTES

- 1. REFER TO CIVIL SHEETS FOR PAVING AND CURB LAYOUT, GRADING, DRAINAGE, AND RELATED DETAILS
- 2. REFER TO CIVIL SHEETS FOR BASES FOR RELOCATED SCULPTURE
- 3. REFER TO ELECTRICAL SHEETS FOR NEW LIGHTPOLES AND ELECTRICAL SERVICE.
- 4. REFER TO SPECIFICATION 329300 "EXTERIOR PLANTINGS" FOR PLANTS, SOIL, AND MULCH INSTALLATION AND MAINTENANCE.
- 5. REFER TO SPECIFICATION 129300 "SITE FURNISHINGS" FOR BENCHES.
- 6. CONTRACTOR SHALL STAKE ALL TREE/SRHUB LOCATIONS AND LAYOUT ALL HERBACEOUS PLANTING AREAS FOR REVIEW AND ACCEPTANCE BY LANDSCAPE ARCHITECT PRIOR TO PLANTING PER 329300, PART 3.4.
- 7. REFER TO CIVIL SHEETS FOR INSTALLATION OF UNIT PAVERS. CONTRACTOR SHALL FOLLOW PATTERNS SHOWN ON THIS SHEET.
- 7.1. PLANS REQUIRE THE FOLLOWING QUANTITY OF PAVERS APPROXIMATELY:
- 7.1.1. 2,772 SF OF HALF-SIZED BRUSSELS PAVERS
- 7.1.2. 1,981 SF OF STANDARD-SIZED BRUSSELS PAVERS
- 7.2. OWNER WILL SUPPLY CONTRACTOR WITH APPROXIMATELY 2,024 SQUARE FEET OF HALF-SIZE BRUSSELS PAVERS AND 2,942 SQUARE FEET OF STANDARD SIZE BRUSSELS PAVERS. CONTRACTOR MAY SAWCUT STANDARD SIZE UNITS IN HALF TO MAKE ADDITIONAL HALF-SIZED UNITS.
- 7.2.1. CONTRACTOR SHALL CONFIRM ALL REQUIRED QUANTITIES AND PROVIDE ADDITIONAL PAVERS AS NEEDED TO COMPLETE THE WORK.









REHABILITATIO ILLINOIS

CITY

COMMUNIT

OAKTON

PROJ. MGR.: JAC DRAWN BY: BEP/IB 10-27-22

1"=10'

SMALL	TRFFS						
Quantity		Scientific Name	Common Name	Spacing	Container	Size	Comments
4	AM LA	Amelanchier laevis	Allegheny Serviceberry	NA NA	B&B	8' HT	MULTI-STEM
2	CA CA	Carpinus caroliniana	Blue Beech	NA	B&B	8' HT	MULTI-STEM
4	HA VI	Hamamelis Virginiana	Witch Hazel	NA	B&B	8' HT	MULTI-STEM
SHRUB							
Quantity		Scientific Name	Common Name	Spacing	Container	Size	Comments
9	AE PA	Aesculus parviflora	Bottlebrush Buckeye	5' O.C.	CONT	5 GAL	
8	HY PA	Hydrangea paniculata 'Little Lime'	Little Lime Hydrangea	4' O.C.	CONT	3 GAL	
31	IT VI	Itea virginica 'Henry's Garnet'	Henry's Garnet Virginia Sweetspire	4' O.C.	CONT	4 GAL	
5	KE JA	Kerria japonica	Japanese Rose	4' O.C.	CONT	5 GAL	
1	LIBE	Lindera benzoin	Spicebush	NA	B&B	5' HT.	
38	RIAL	Ribes alpinum 'Green Mound'	Green Mound Mountain Currant	32" O.C.	CONT	3 GAL	
31	ST IN	Sephenandra incisa 'Crispa'	Lace Shrub	3' O.C.	CONT	3 GAL	
19	VI AC	Viburnum acerifolium	Mapleleaf Viburnum	3' O.C.	B&B	4' HT	
PERENI	VIALS						
Quantity	Symbol	Scientific Name	Common Name	Spacing	Container	Size	Comments
10	AR CO	Aralia cordata 'Sun King'	Golden Japanese Spikenard	36" O.C.	CONT	1 GAL	
1549	AS CA	Asarum canadense	Wild Ginger	12" O.C.	CONT	1 PT	
12	CA TH	Caulophyllum thalictroides	Blue Cohosh	18" O.C.	CONT	1 GAL	
94	CH GL	Chelone glabra	Turtlehead	18" O.C.	CONT	1 GAL	
116	HO RS	Hosta 'Royal Standard'	Royal Standard Hosta	24" O.C.	CONT	1 GAL	
7	LG MC	Ligularia 'Britt-Marie Crawford'	Leopard Plant	36" O.C.	CONT	1 GAL	
8	MO FI	Monarda fistulosa	Bee Balm	32" O.C.	CONT	1 GAL	
482	PO OD	Polygonatum odoratum var. pluriflorum 'Variegatum'	Variegated Solomon's Seal	18" O.C.	CONT	1 QT	
20	ST MO	Stachys monieri 'Hummelo'	Betony	18" O.C.	CONT	1 GAL	
FERNS							
Quantity	Symbol	Scientific Name	Common Name	Spacing	Container	Size	Comments
13	AS PL	Asplenium platyneuron	Ebony Spleenwort	18" O.C.	CONT	1 PT	
19	MA ST	Matteuccia struthiopteris	Ostritch Fern	36" O.C.	CONT	1 PT	
90	OS CI	Osmundastrum cinnamomeum	Cinnamon Fern	18" O.C.	CONT	1 PT	
48	PO AC	Polystichum acrostichoides	Christmas Fern	18" O.C.	CONT	1 PT	
VINES							
Quantity	Symbol	Scientific Name	Common Name	Spacing	Container	Size	Comments
43	PA QU	Parthenocissus quinquefolia	Virgina Creeper	18" O.C.	CONT	1 QT	

	Mixes							
Mix 1								
Quantity		Scientific Name	Common Name	% of Planted Area		Container		Comments
549	CR CB	Crocus chrysanthus 'Cream Beauty'	Cream Beauty Crocus		6" O.C.	BULB	TOP SIZE	INTERPLANT BETWEEN RU HU AND SE
61	RU HU	Ruellia humilis	Prairie Petunia	0.3	18" O.C.	CONT	1 QT	
141	SE AU	Sesleria autumnalis	Autumn Moor Grass	0.7	18" O.C.	CONT	2 QT	
Mix 2								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
30	CAPE	Carex pennsylvanica	Penn Sedge	0.2	18" O.C.	CONT	1 QT	
45	GE MA	Geranium maculatum	Wlld Geranium	0.3	18" O.C.	CONT	1 QT	
75	НО МА	Hosta 'May'	May Hosta	0.5	18" O.C.	CONT	1 QT	
Mix 3								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
93	EC PA	Echinacea pallida	Pale Purple Coneflower	0.3	18" O.C.	CONT	1 QT	
218	SP HE	Sporobolus heterolepis	Prairie Dropseed	0.7	18" O.C.	CONT	1 QT	
Mix 4								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
79	DE CE	Deschampsia cespitosa 'Goldtau'	Goldtau Tufted Hair Grass		18" O.C.	CONT	1 QT	
34	RU FG	Rudbeckia fulgida v. fulgida	Black-eyed Susan	0.3	18" O.C.	CONT	1 QT	
Mix 5								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
73	CAEI	Carex elata 'Aurea'	Bowles Golden Sedge	0.6	18" O.C.	CONT	1 QT	
48	HO JU	Hosta tardiana 'June'	June Hosta	0.4	18" O.C.	CONT	1 QT	
Mix 6								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
121	CALA	Carex laxiculmis 'Hobb' BUNNY BLUE	Bunny Blue Claucous Woodland Sedge	0.5	12" O.C.	CONT	1 PT	
72	HE VI	Heuchera villosa	Hairy Allum root	0.3	12" O.C.	CONT	1 PT	
48	PH DI	Phlox divaricata	Woodland Phlox	0.2	12" O.C.	CONT	1 PT	
Mix 7								
Quantity	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
61	AS DI	Aster divaricatus	White Wood Aster		12" O.C.	CONT	1 PT	
142	CALA	Carex laxiculmis 'Hobb' BUNNY BLUE	Bunny Blue Claucous Woodland Sedge		12" O.C.	CONT	1 PT	
245	TR GR	Trillium grandiflorum	White Wake Robin		6" O.C.	CONT	1 PT	INTERPLANT BETWEEN AS DI AND CA LA
Mix 8								
	Symbol	Scientific Name	Common Name	% of Planted Area	Spacing	Container	Size	Comments
	CASP	Carex sprengelii	Long Beaked Sedge		18" O.C.	CONT	1 QT	
	ON SE	Onoclea sensibiis	Sensitive Fern		18" O.C.	CONT	1 QT	+





CITY OF DES PLAINES, ILLINOIS PLANT SCHEDULE

OAKTON COMMUNITY COLLEGE COURTYARD REHABILITATIO

 PROJ. MGR.:
 JAC

 PROJ. ASSOC.:
 JAC

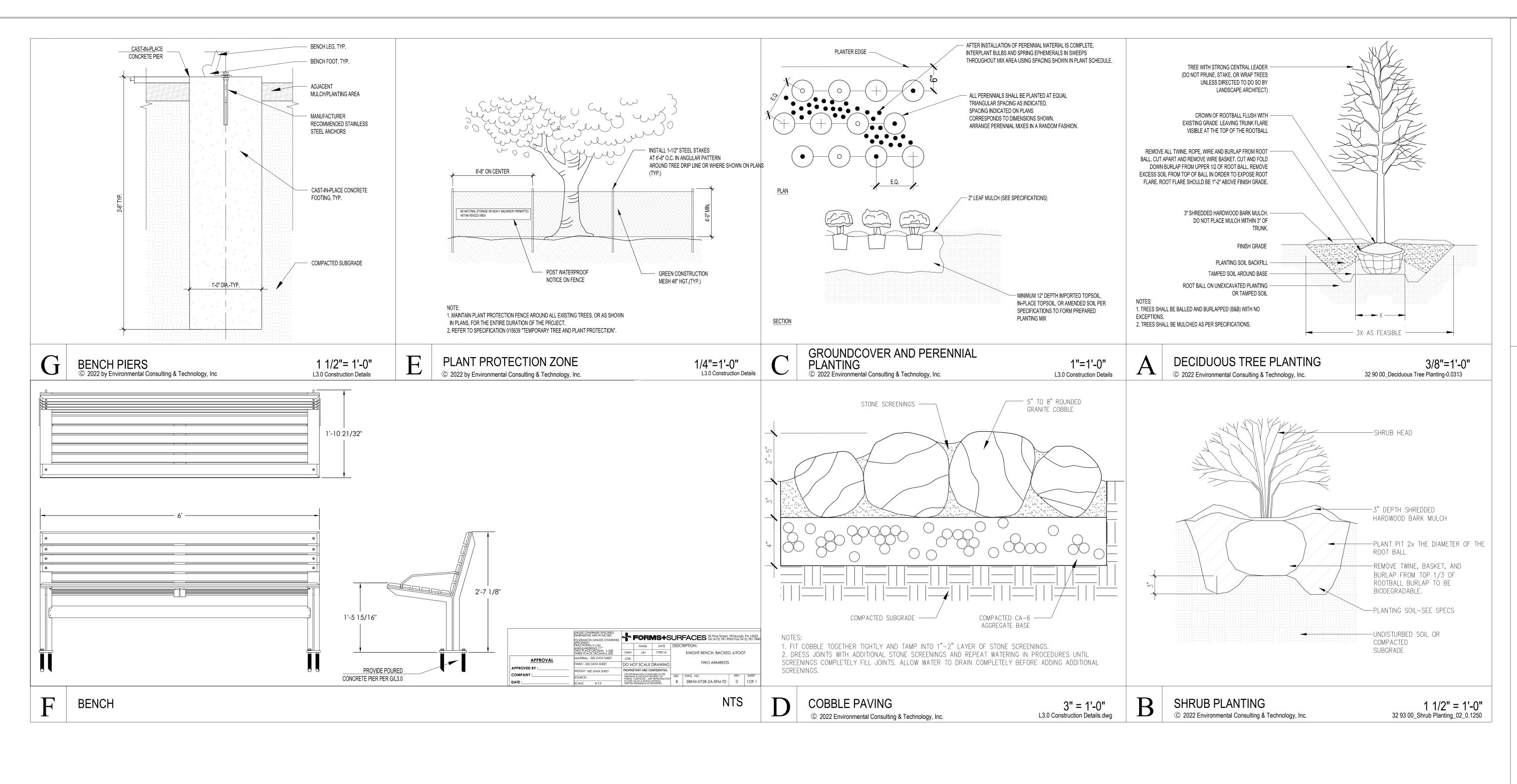
 DRAWN BY:
 BEP/IB

 DATE:
 10-27-22

 SCALE:
 1"=10"

SHEET

**L2.1** 

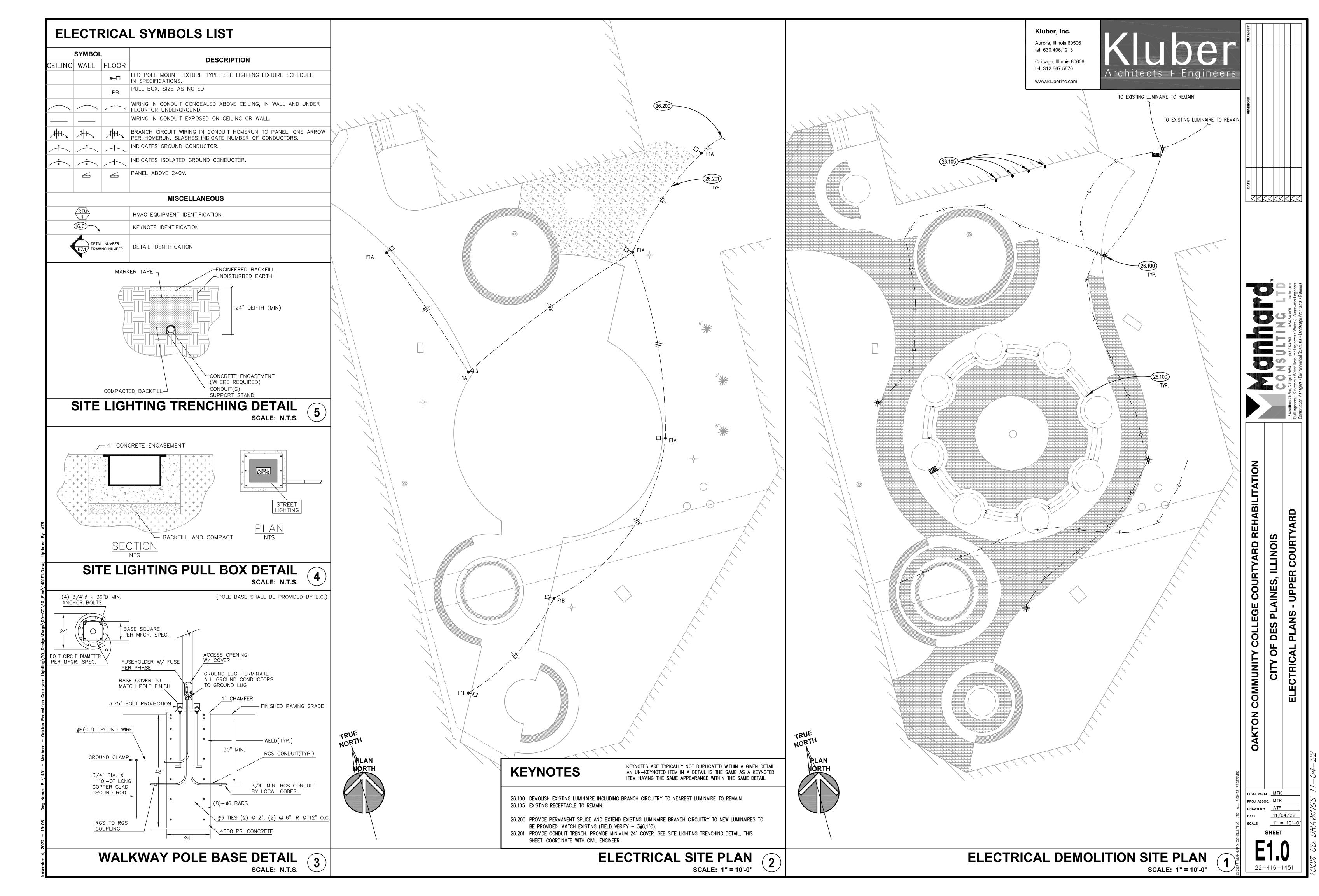


COURTYARD REHABILITATIO ILLINOIS CITY OF DES PLAINES, DETAILS COMMUNITY COLLEGE OAKTON

LANDSCAPE

PROJ. MGR.: JAC PROJ. ASSOC.: JAC DRAWN BY: BEP/IB 10-27-22 **SCALE**: 1"=10'

SHEET



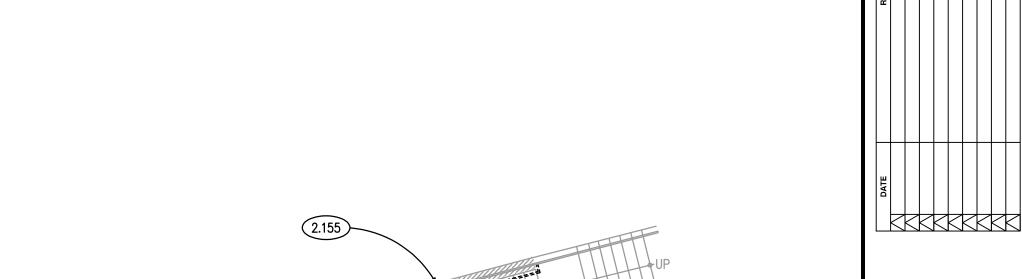
P:∖1451 - Manhard - Oakton Pedestrian Courtyard Lighting∖30\_Design\Dwgs\DD-CD\60\_Elec∖1451E1.0.dwg, 11/4/2022 3

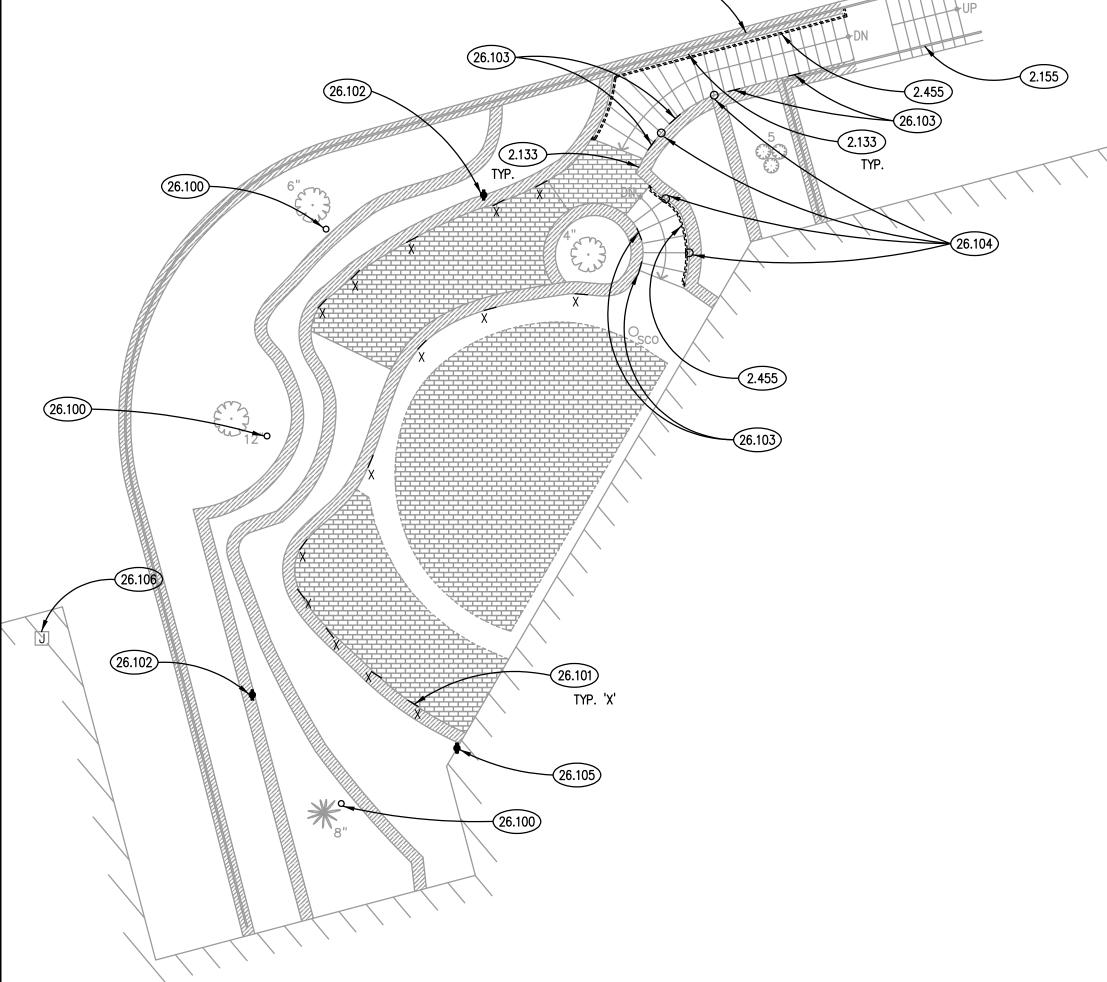
- 2.155 EXISTING PAINTED STEEL PIPE GUARD RAIL TO REMAIN.
- 2.133 EXISTING CAST-IN-PLACE CONCRETE RETAINING WALL.
- 2.455 REMOVE EXISTING STEEL PIPE HANDRAIL AND SUPPORT BRACKETS; EXTRACT EXISTING BRACKET SUPPORT ANCHORS AND FILL ANCHOR HOLES WITH NON-SHRINK, NON-METALLIC CEMENT GROUT IN COLOR TO MATCH EXISTING CONCRETE.
- 5.521 PIPE RAILING: HANDRAIL; 1-1/4" (NOM.) PLAIN STEEL SCHEDULE 40 PIPE; SET 2'-10" ABOVE ADJACENT WALKING SURFACE AND 2'-10" ABOVE SLOPED LINE CONNECTING NOSINGS OF STAIRS; FABRICATE AND INSTALL HANDRAIL SUCH THAT THERE IS A MINIMUM OF 1-1/2" CLEAR BETWEEN HANDRAIL AND EXISTING CONCRETE WALLS AND GUARDS; LOCATE SUPPORTS NOT MORE THAN 4'-0" O.C.; SHOP-PRIME FOR FIELD PAINTING; FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PREPARATION OF SHOP DRAWINGS.
- 5.522 PIPE RAILING SUPPORT: 1-1/4" (NOM.) PLAIN STEEL SCHEDULE 40 PIPE; CORE AND SET 6" (MIN.) INTO EXISTING CONCRETE SLAB/STAIR USING NON-SHRINK, NON-METALLIC GROUT; SHOP PRIME FOR FIELD PAINTING.
- 5.523 PIPE RAILING SUPPORT: 3/4" PLAIN STEEL BAR BENT TO "L" SHAPE; WELD TO HANDRAIL AND EXISTING GUARD RAIL POST; SHOP-PRIME FOR FIELD PAINTING.
- 5.524 PIPE RAILING SUPPORT: 3/4" PLAIN STEEL BAR BENT TO "L" SHAPE AND WELDED TO HANDRAIL AND 3" DIA. X 1/4" THICK PLAIN STEEL MOUNTING FLANGE PLATE WITH 3 HOLES; SHOP-PRIME FOR FIELD PAINTING; SURFACE-MOUNT TO FACE OF EXISTING CONCRETE USING 3/8" GALVANIZED STEEL EXPANSION ANCHORS.
- 5.529 PIPE RAILING ASSEMBLY: RETURN AND WELD END OF NEW HANDRAIL TO EXISTING GUARD RAIL POST.
- 9.911 PAINT HANDRAIL, MOUNTING BRACKETS AND MOUNTING POSTS; COLOR TO MATCH EXISTING GUARD RAIL; BLEND NEW PAINT INTO EXISTING AT WELD POINTS ON EXISTING GUARD RAIL.
- 26.100 DEMOLISH EXISTING LUMINAIRE INCLUDING BRANCH CIRCUITRY TO NEAREST LUMINAIRE TO REMAIN.
- 26.101 EXISTING STEP LIGHTING TO REMAIN (ABANDON IN PLACE).
- 26.102 EXISTING RECEPTACLE TO BE REMOVED.
- 26.103 EXISTING STEP LIGHTING TO REMAIN (ABANDON IN PLACE). PROVIDE NEW LOUVERED COVER PLATE. MATCH EXISTING. FINISH: SILVER. NOMINAL SIZE: 10 3/8" X 5 3/4".
- 26.104 EXISTING SURFACE MOUNTED STEP LIGHTING TO BE DEMOLISHED.
- 26.105 EXISTING RECEPTACLE TO REMAIN.
- 26.106 NOMINAL LOCATION OF EXISTING SITE LIGHTING HOMERUN ACCORDING TO EXISTING RECORD DRAWINGS.
- 26.201 PROVIDE CONDUIT TRENCH. PROVIDE MINIMUM 24" COVER. SEE SITE LIGHTING TRENCHING DETAIL, THIS
- SHEET. COORDINATE WITH CIVIL ENGINEER. 26.202 PROVIDE HELICAL PILE POLE FOUNDATION AT GRADE. NOMINAL SHAFT SIZE 6-5/8", LENGTH 60".
- 26.203 FIELD LOCATE EXISTING SITE LIGHTING HOMERUN. PROVIDE PERMANENT SPLICE AND EXTEND BRANCH CIRCUITRY TO NEW LIGHTING TO BE INSTALLED.

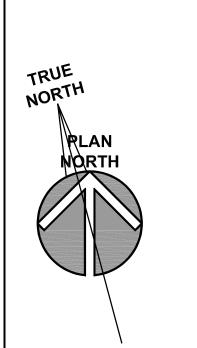


Kluber, Inc. Aurora, Illinois 60506 tel. 630.406.1213 Chicago, Illinois 60606 tel. 312.667.5670 www.kluberinc.com









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2.133

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ARCHITECTURAL & ELECTRICAL PLAN SCALE: 1/8" = 1'-0"

**ARCHITECTURAL & ELECTRICAL DEMOLITION PLAN** 

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

22-416-1451

OAKTON COMMUNITY COLLEGE COURTYARD REHABILITATIO