Coffman Park Platform Tennis

6565 Commerce Pkwy, Dublin, OH 43017

2018

City of Dublin
OHIO, USA
Approved for Construction
BPS.18-41952.COM.COM_EPR.5700.47147
04/30/18

DATE: March 20, 2018

PROJECT NO. 17055

Bid Document Submittal
Site Improvement Package

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PROJECT DESCRIPTION:

BASE BID:
COFFMAN PARK PLATFORM TENNIS - LUMP SUM BID FOR ALL TRADES, LABOR, EXPERTISE, MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, SHIPPING, SERVICES AND APPURTENANCES NECESSARY TO FURNISH AND CONSTRUCT ALL WORK AS PER PLANS AND SPECIFICATIONS IDENTIFIED AS COFFMAN PARK PLATFORM TENNIS COURTS, POURED-IN-PLACE PAVING AND BENCH CONCRETE PADS, BENCH INSTALLATION, GRADING AND DRAINAGE, PLANTING, LIGHTING, AND FENCING.

PREPARED FOR

Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016
PH: 614.761.6520

PREPARED BY

POD design

Columbus
100 Northwoods Blvd
Suite A
Columbus, Ohio 43235
p 614.255.3399

Cincinnati
10816 Millington Court
Suite 118
Cincinnati, Ohio 45242
p 614.360.3066

PODdesign.net

POINT ONE DESIGN LTD.

2800 Corporate Exchange Dr.
Suite 270
Columbus, Ohio 43231
p 614.540.3500

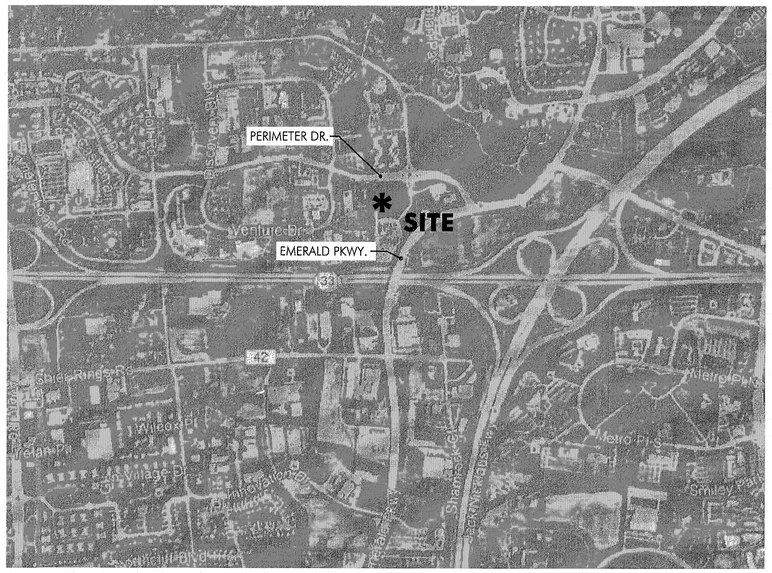
Standard Drawing Index

City of Dublin, 2017 Edition:

City of Columbus:

ODOT:
ODOT SCD DM-4.4

VICINITY MAP



SCALE: 1" = 1000'

NORTH

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN CONSULTANT PREPARING THE PLANS.

APPROVED:

CITY ENGINEER, CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

4.26.2018
DATE

DIRECTOR OF LAND USE & LONG RANGE PLANNING, CITY OF DUBLIN, OHIO
VINCENT A. PAPSIDERO, FAICP

4.27.18
DATE

BENCHMARK DATA – Horizontal NAD 83,
Ohio State Plane Coordinate System – South Zone
Vertical NAVD 88

TBM#1 – PK NAIL IN PARKING LOT
ELEVATION 882.14
NORTHING 767718.551
EASTING 1790130.931
TBM#2 – PK NAIL IN ASPHALT
ELEVATION 892.14
NORTHING 767626.828
EASTING 1789151.482
TBM#3 – PK NAIL IN SIDEWALK
ELEVATION 886.01
NORTHING 766005.120
EASTING 1790125.732

STATE OF OHIO
STEPHEN KOLWICZ
936
REGISTERED
LANDSCAPE ARCHITECT

18-023-CIP

2 WORKING DAYS BEFORE YOU DIG
OHIO UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-362-2764

GENERAL NOTES:

1. City of Columbus and Ohio Department of Transportation Construction and Material Specifications, current editions, and any supplements thereto (hereafter referred to as Standard Specifications), shall govern all construction items unless otherwise noted. If a conflict between specifications is found, the more strict specification will apply as decided by the City Engineer. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted.

2. The City Engineer will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The City Engineer will not be responsible for safety on the work site, or for failure by the Contractor to perform work according to contract documents.

3. The Developer or Contractor shall be responsible to obtain all necessary permits including but not limited to Ohio EPA Permits to Install (PTI) and Notices of Intent (NOI), Building Permits, etc.

4. The Contractor shall notify the City of Dublin Division of Engineering in writing at least 3 working days prior to beginning construction.

5. The Contractor shall be solely responsible for complying with all federal, state and local safety requirements including the Occupational Safety and Health Act of 1970. The Contractor shall exercise precaution always for the protection of persons (including employees) and property. It shall also be the sole responsibility of the Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.146.

6. Following completion of construction of the site improvements and before requesting occupancy, a proof survey shall be provided to the Division of Engineering that documents "as-built" elevations, dimensions, slopes and alignments of all elements of this project. The proof survey shall be prepared, signed and submitted by the Professional Engineer who sealed the constructions drawings.

7. The Contractor shall restrict construction activity to public right-of-way and areas defined as permanent and/or temporary construction easements, unless otherwise authorized by the City Engineer.

8. The Contractor shall carefully preserve benchmarks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the Contractor shall be responsible for restorations. Resetting of markers shall be performed by an Ohio Professional Surveyor as approved by the City Engineer.

9. Non-rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the City Engineer.

10. The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or watercourses that are disturbed by construction shall be restored to the grades and cross-sections that existed before construction.

11. Tracking or spilling mud, dirt or debris upon streets, residential or commercial drives, sidewalks or bike paths is prohibited according to Section 97.38 of the Dublin Code of Ordinances. Any such occurrence shall be cleaned up immediately by the Contractor at no cost to the City. If the Contractor fails to remove said mud, dirt, debris, or spillage, the City reserves the right to remove these materials and clean affected areas, the cost of which shall be the responsibility of the Contractor.

12. Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) is not permitted.

13. All signs, landscaping, structures or other appurtenances within right-of-way disturbed or damaged during construction shall be replaced or repaired to the satisfaction of the City Engineer. The cost of this work shall be the responsibility of the Contractor.

14. All field tile broken or encountered during excavation shall be replaced or repaired and connected to the public storm sewer system as directed by the City Engineer. The cost of this work shall be the responsibility of the Contractor.

15. All precast concrete products shall be inspected at the location of manufacture. Approved precast concrete products will be stamped or have such identification noting that inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspection shall not be approved for installation.

16. Backfill within a 1:1 influence line of existing structures (houses, garages, etc.) or public infrastructure (pavement, curbs, sidewalks, bike paths, etc.) shall be compacted granular backfill according to Item 912 of the Standard Specifications or Flowable CDF, Type II according to Item 613. Item 911 of the Standard Specifications shall be used elsewhere.

17. The Contractor shall submit a copy of the approved construction drawings and a list of proposed precast concrete product manufacturers to the City of Columbus Construction Inspection Division before commencing construction.

Send the information to the following address:
Construction Inspection Division
City of Columbus
1800 East 17th Avenue
Columbus, Ohio 43219

Send a copy of the transmittal letter to the following address:
Division of Engineering
City of Dublin
5800 Shier Rings Road
Dublin, Ohio 43016

18. All trenches within public right-of-way shall be backfilled according to the approved construction drawings or securely plated during nonworking hours. Trenches outside these areas shall be backfilled or shall be protected by approved temporary fencing or barricades during nonworking hours clean up shall follow closely behind the trenching operation.

19. All trees within the construction area not specifically designated for removal shall be preserved, whether shown or not shown on the approved construction drawings. Trees to be preserved shall be protected with high visibility fencing placed a minimum 15 feet from the tree trunk. Trees 6 – inches or greater at DBH (Diameter Breast Height) must be protected with fencing placed at the critical root zone or 15 feet, whichever is greater. Trees not indicated on the approved construction drawings for removal may not be removed without prior approval of the Division of Engineering.

20. Conduit must be directionally bored across streets instead of open cut, unless specifically approved by the City Engineer. Use of pneumatic air ram devices is not permitted. Permits to construct in the right-of-way of existing streets must be obtained from the City of Dublin Division of Engineering before commencing construction. Should open cutting of existing pavement be permitted, Controlled Density Backfill (Type II) shall be used in place of compacted granular backfill, according to Item 613 of the Standard Specifications.

21. The Contractor shall be responsible for the condition of trenches within the right-of-way and public easements for a period of one year from the final acceptance of the work, and shall make any necessary repairs at no cost to the City.

22. Pavements shall be cut in neat, straight lines the full depth of the existing pavement, or as required by the City Engineer. Pavement replacement shall be conducted according to City of Columbus Standard Drawing 1441 Dr. A and applicable City of Dublin standard drawings. The replacement of driveways, handicapped ramps, sidewalks, bike paths, parking lot pavement, etc. shall be provided according to the approved construction drawings and City of Dublin standard construction drawings.

23. Tree trimming within the construction zone is to be completed by a certified Arborist. At the completion of the project, the Arborist is to return and trim any broken branches as needed.

24. Any modification to the work shown on drawings must have prior written approval by the City Engineer, City of Dublin.

25. All inlets shall be channelized.

26. Park areas shall be fine-graded and seeded with the following mixture:

Improved Kentucky Bluegrass: 40% of weight (2 varieties in equal parts)
Improved Perennial Rye: 60% of weight (2 varieties in equal parts)
Germination Rate: 85%
Application Rate: 7 lbs per 1000 sq ft or as directed by the Division of Parks and Recreation, City of Dublin, Ohio.

27. Traffic control and other regulatory signs shall be Type S with a square post anchor base installation and meet all requirements of ODOT TC-41.20 and applicable City of Dublin specifications.

28. Street signs shall meet all City of Dublin specifications with lettering colored in white displayed over a brown background. Sign tubing shall be brown in color and conform with the Type S, square post anchor base installation requirements of ODOT TC-41.20.

UTILITIES

1. The following utilities are known to be located within the limits of this project:

AT&T - Communications	1-800-288-2020
AEP - Electric Service	1-866-258-3782
Columbia Gas - Gas Service	1-800-344-4077
City of Dublin - Storm Service	1-614-410-4750

2. The Contractor shall give notice of intent to construct to Ohio Utilities Protection Service (telephone number 800-362-2764), Producer's Underground Protection Service (telephone number 614-587-0486), and to owners of underground utilities that are not members of a registered underground protection service. Notice shall be given at least 2 working days before start of construction.

3. The identity and locations of existing underground utilities in the construction area have been shown on the approved construction drawings as accurately as provided by the owner of the underground utility. The City of Dublin and the City Engineer assumes no responsibility for the accuracy or depths of underground facilities shown on the approved construction drawings. If damage is caused, the Contractor shall be responsible for repair of the same and for any resulting contingent damage.

4. Location, support, protection and restoration of all existing utilities and appurtenances, whether shown or not shown on the approved construction drawings, shall be the responsibility of the Contractor.

5. When unknown or incorrectly located underground utilities are encountered during construction, the Contractor shall immediately notify the owner and the City Engineer.

6. Public street lighting may be in the vicinity of this project. Contact the City of Dublin, Division of Engineering at 410-4637, two days prior to beginning work.

TRAFFIC CONTROL

1. Traffic control shall be furnished, erected, maintained, and removed by the Contractor according to Ohio Manual of Uniform Traffic Control Devices (OMUTCD), current edition.

2. All traffic lanes of public roadways shall be fully open to traffic from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM unless authorized differently by the City Engineer. At all other hours the Contractor shall maintain minimum one-lane two-way traffic. Uniformed, off-duty police officers shall replace flagmen designated by the OMUTCD, and shall be present whenever one-lane, two-way traffic control is in effect. Police cruisers may be required as directed by the City Engineer.

3. If the City Engineer determines that the Contractor is not providing proper provisions for traffic control, the City Engineer shall assign uniformed, off-duty police officers to the project at no cost to the City.

4. Steady-burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night.

5. Access from public roadways to all adjoining properties for existing residents or businesses shall be maintained throughout the duration of the project for mail, public water and sanitary sewer service, and emergency vehicles. The Contractor shall provide a traffic control plan detailing the proposed maintenance of traffic procedures. The traffic control plan must incorporate any traffic control details contained herein. The traffic control plan proposed by the Contractor must be approved by the City Engineer prior to construction.

EROSION AND SEDIMENT CONTROL

1. The Contractor or Developer is responsible for submitting a Notice of Intent (NOI) to be reviewed and approved by the Ohio EPA. The NOI must be submitted to OEPA 45 days prior to the start of construction and may entitle coverage under the Ohio EPA General Permit for Stormwater Discharges associated with construction activity. A project location map must be submitted with the NOI. A sediment and erosion control plan must be submitted to the City Engineer for approval if a sediment and erosion control plan has not already been included with the approved construction drawings. This plan must be made available at the project site at all times. The design of erosion control systems shall follow the requirements of Ohio EPA, Item 207 of Ohio Department of Transportation Standard Specifications, and the City Engineer. An individual NPDES Stormwater Discharge Permit may be required. The Contractor shall be considered the permittee.

2. The Contractor shall provide sediment control at all points where storm water runoff leaves the project, including waterways, overland sheet flow, and storm sewers.

3. Accepted methods of providing erosion/sediment control include but are not limited to: sediment basins, silt filter fence, aggregate check dams, and temporary ground cover. Hay or straw bales are not permitted.

4. The Contractor shall provide adequate drainage of the work area at all times consistent with erosion control practices.

5. Disturbed areas that will remain unworked for 30 days or more shall be seeded or protected within seven calendar days of the disturbance. Other sediment controls that are installed shall be maintained until vegetative growth has been established. The Contractor shall be responsible for the removal of all temporary sediment devices at the conclusion of construction but not before growth of permanent ground cover.

BLASTING (If Permitted)

1. The Contractor must obtain a blasting permit from Washington Township Fire Department prior to blasting for rock excavation. The Contractor shall submit blasting reports upon completion of blasting to the City Engineer, the Owner, and the Owner's engineer. Top of rock elevations shall be shown on "as-built" construction drawings.

SANITARY SEWERS

1. Connections to the sanitary sewer will be permitted upon receiving an OEPA Permit to Install (PTI), and upon receiving a satisfactory letter from the design engineer stating that the project has been constructed as per the plans, and all of the conditions of the PTI have been met. The developer is responsible for obtaining all required Ohio EPA approvals and paying review fees.

2. Sanitary sewage collection systems shall be constructed in accordance with the rules, regulations, standards and specifications of the City of Dublin, Ohio EPA, Ohio Department of Health and the current edition of the Great Lakes-Upper Mississippi River Board (Ten States) - Recommended Standards for Wastewater Facilities.

3. The minimum requirements for sanitary sewer pipe with diameters 15 inches and smaller shall be reinforced concrete pipe ASTM C76 Class 3, or PVC sewer pipe ASTM D3034, SDR 35. Pipe for 6-inch diameter house service lines shall be PVC pipe ASTM D3034, SDR 35. PVC pipe shall not be used at depths greater than 28 feet. Pipe materials and related structures shall be shop tested in accordance with City of Columbus Construction Inspection Division quality control requirements.

4. The minimum requirements for sanitary sewer pipes with diameters greater than 15 inches shall be reinforced concrete pipe ASTM C76 with Class designation specified in the approved construction drawings.

5. All in-line wye and tee connections in concrete sewers, 18-inch diameter and larger, shall be either Kor-N-Tee or Kor-N-Seal connections conforming to the manufacturer's recommendations.

6. Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 613, Type II of the Standard Specifications as directed by the City Engineer.

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OHIO, USA

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POD design

Columbus
100 Northwoods Blvd, Ste A
Columbus, Ohio 43235
p 614.255.3399

Cincinnati
10816 Millington Court, Ste 118
Cincinnati, Ohio 45242
p 614.360.3066

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Project Name

Coffman Park Platform Tennis

6565 Commerce Pkwy.
Dublin, Ohio 43017

Prepared For

Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

Project Info

Project #	17055
Date	03/20/18
By	GB/JD
Scale	As Noted

Revisions

Sheet Title

GENERAL NOTES

Sheet #

L0.0

GENERAL NOTES: (CONTINUED)

7. All manhole lids shall be provided with continuous self-sealing gaskets. The approved construction drawings shall show where bolt-down lids are required. Sanitary sewer manholes shall be precast concrete or as approved by the City Engineer and conform to the City of Dublin sanitary manhole standard drawing. Manhole lids shall include City of Dublin logo.

8. All PVC sewer pipes shall be deflection tested no less than 60 days after completion of backfilling operations. All other requirements shall be according to Item 901.21 of the Standard Specifications.

9. Temporary bulkheads shall be placed in pipes at locations shown on the approved construction drawings and shall remain in place until the Permit to Install (PTI) has been issued by the OEPA and the sewers have been approved for use by the City Engineer. The cost for furnishing, installing, maintaining, and removing bulkheads shall be included in the contract unit bid price for the various sanitary sewer items.

10. All sanitary sewers including sanitary sewer service lines shall be subjected to and pass infiltration or exfiltration tests according to Item 901 of the Standard Specifications and must be approved for use by the City Engineer before any service connections are tapped into sewers.

11. For sanitary sewer infiltration, leakage through joints shall not exceed 100 gallons per inch of tributary sewer diameter per 24 hours per mile of length or the computed equivalent. All sanitary sewers shall be tested.

12. At the determination of the City Engineer, the Contractor may be required to perform a TV inspection of the sanitary sewer system prior to final acceptance by the City. This work shall be completed by the Contractor at his expense.

13. Visible leaks or other defects observed or discovered during TV inspection shall be repaired to the satisfaction of the Engineer.

14. Roof drains, foundation drains, field tile or other clean water connections to the sanitary sewer system are strictly prohibited according to Section 51.23 of the Dublin Code of Ordinances.

15. All water lines shall be located at least 10 feet horizontally and 18 inches vertically, from sanitary sewers and storm sewers, to the greatest extent practicable. Where sanitary sewers cross water mains or other sewers or other utilities, trench backfill shall be placed between the pipes crossing and shall be compacted granular material according to Item 912 of the Standard Specifications. In the event that a water line must cross within 18 inches of a sanitary sewer, the sanitary sewer shall be concrete encased or consist of ductile iron pipe material.

16. Service risers shall be installed where the depth from wyes to proposed ground elevation exceeds 10 feet. Tops of risers shall be no less than 9 feet below proposed ground elevation if basement service is intended.

17. Where service risers are not installed, a minimum 5-foot length of sanitary sewer service pipe of the same size as the wye opening shall be installed.

18. The Contractor shall furnish and place, as directed, approved wye poles made of 2 inches x 2 inches lumber at all wye locations, ends of extended services, or at the end of each riser where risers are required. Wye poles shall be visible before acceptance by the City. The cost of these poles shall be included in the contract unit price for the various sewer items.

19. Existing sanitary sewer flows shall be maintained at all times. Costs for pumping and bypassing shall be included in the Contractor's unit price bid for the related items.

20. The Contractor shall furnish all material, equipment, and labor to make connections to existing manholes. The sewer pipe to manhole connections for all sanitary sewers shall be flexible and watertight. All holes shall be neatly cored. The sewer pipe barrel at the springline shall not extend more than 1 inch beyond the inside face of the manhole. To maintain flexibility in the connection, a 1-inch space shall be left between the end of the pipe inside the manhole and the concrete channel; this space shall be filled with a waterproof flexible joint filler. Any metal that is used shall be Type 300 Series Stainless Steel. The connection may be any of the following types:

A. Rubber sleeve with stainless steel banding.
1) Kor-N-Seal as manufactured by National Pollution Control Systems, Inc.
2) Lock Joint Flexible Manhole Sleeve as manufactured by Interpace Corporation.
3) Or equal as approved by the City Engineer.
B. Rubber gasket compression.
1) Press Wedge II as manufactured by Press-Seal Gasket Corporation.
2) Dura Seal III as manufactured by Dura Tech, Inc.
3) Link-Seal as manufactured by Thunderline Corporation.
4) Or equal as approved by the City Engineer.

The cost for this work along with a new channelized base for the manhole shall be included in the unit bid price for the related items of work.

WATER LINE

1. All water line materials shall be provided and installed according to current specifications of the City of Columbus Division of Water.

2. All public water pipe with a diameter 3 inches to 8 inches shall be Ductile Iron, Class 53. Public water pipe 12 inches in diameter or larger shall be Ductile Iron, Class 54. Public water pipe 20 inches in diameter or larger may be prestressed concrete pipe. Private water pipe shall meet the approval of the City of Columbus Division of Water prior to approval of the construction drawings.

3. Only fire hydrants conforming to City of Columbus standards will be approved for use.

4. Public water lines shall be disinfected by the City of Columbus Division of Water. Requests for water line chlorination shall be made through the City of Dublin Division of Engineering. The cost for chlorination shall be paid for by the Contractor.

5. All water lines shall be disinfected according to Item 801.13 of the Standard specifications. Special attention is directed to applicable sections of American Water Works Association specification C-651, particularly for flushing (Section 5) and for chlorinating valves and fire hydrants (Section 7). Pressure testing shall be performed in accordance with Section 801.12 of the City of Columbus Construction and Material Specifications. When water lines are ready for disinfection, the City of Dublin shall submit two (2) sets of "as-built" plans, and a letter stating that the water lines have been pressure tested and need to be disinfected, to the City of Columbus, Division of Water. The Contractor shall be responsible for all costs associated with the disinfection of all water lines construction per this plan. Pressure testing shall be performed in accordance with Section 801.12 of the City of Columbus Construction and Material Specifications.

6. The Contractor shall paint all fire hydrants according to City of Dublin standards. The cost of painting fire hydrants shall be included in the contract unit price for fire hydrants.

7. No water taps or service connections (e.g., to curb stops or meter pits) may be issued until adjacent public water lines serving the construction site have been disinfected by the City of Columbus Division of Water and have been accepted by the City Engineer. A tap permit for each water service must be obtained from the City of Dublin and the City of Columbus Division of Water before making any taps into public water lines.

8. The Contractor shall notify the City of Columbus Division of Water at 645-7788 and the City of Dublin Division of Engineering at least 24 hours before tapping into existing water lines.

9. All water main stationing shall be based on street centerline stationing.

10. All bends, joint deflections and fittings shall be backed with concrete per City of Columbus standards.

11. The Contractor shall give written notice to all affected property owners at least 1 working day but not more than 3 working days prior to any temporary interruption of water service. Interruption of water service shall be minimized and must be approved by the City Engineer.

12. Water meters shall be installed inside proposed structures unless a meter pit installation is approved by the City of Columbus Division of Water. Meter pits must conform to standard drawings L-7103, A&B for 5/8" through 1" meters or L-6317, A, B, C&D for 1-1/2" or larger meters.

13. Water lines to be installed in embankment areas shall be placed after the embankment has been placed and compacted according to the Standard Specifications.

14. Curb stop boxes shall be located at least 1 foot inside the right-of-way and set at finished grade.

15. If the top of the operating nut of any valve is greater than 36 inches below finished grade, an extension stem shall be furnished to bring the top of the operating nut to within 24 inches of finished grade elevation.

16. All water lines shall be placed at a minimum depth of 4 feet measured from top of finished grade to top of water line. Water lines shall be set deeper at all points where necessary to clear existing or proposed utility lines or other underground restrictions by a minimum of 18 inches.

17. Two ¾ inch taps shall be installed within 2 feet of the end of the line on all dead-end water lines.

STORM SEWER

1. All storm water detention and retention areas and major flood routing swales shall be constructed to finish grade and hydro-seeded and hydro-mulched according to Items 203 and 659 of the Standard Specifications.

2. Where private storm sewers connect to public storm sewers, the last run of private storm sewer connecting to the public storm sewer shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings. Inspection is required by the City of Dublin's Division of Engineering.

3. Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 613, Type II of the Standard Specifications as directed by the City Engineer.

4. All storm sewers shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings.

5. Headwalls and endwalls shall be required at all storm sewer inlets or outlets to and from stormwater management facilities. Natural stone and/or brick approved by the City Engineer shall be provided on all visible headwalls and/or endwalls surfaces.

6. Storm inlets or catch basins shall be channelized and have bicycle safe grates. Manhole lids shall include City of Dublin logo and all curb inlet and catch basin grates shall indluce engraved lettering: "DUMP NO WASTE; DRAINS TO RIVER."

7. Storm sewer outlets greater than 18 inches in diameter accessible from stormwater management facilities or watercourses shall be provided with safety grates, as approved by the City Engineer.

MAIL DELIVERY

1. The Contractor shall be responsible to ensure that US Mail delivery within the project limits is not disrupted by construction operations. This responsibility is limited to relocation of mailboxes to a temporary location that will allow the completion of the work and shall also include the restoration of mailboxes to their original location or approved new location. Any relocation of mailbox services must be first coordinated with the US Postal Service and the homeowner.

2. Before relocating any mailboxes, the Contractor shall contact the U.S. Postal Service and relocate mailboxes according to the requirements of the Postal Service.

USE OF FIRE HYDRANTS

1. The Contractor shall make proper arrangements with the Dublin Service Department and the Columbus Division of Water for the use of fire hydrants when used for work performed under this contract and provide the city of Dublin a copy of the Hydrant Usage Permit obtained from the City of Columbus. The Contractor shall also send a copies of permits obtained from Dublin and Columbus to the Washington and/or Perry Township Fire Department. Permits shall be kept at the construction site at all times.

2. Before the final estimate is paid, the Contractor shall submit a letter from the City of Columbus Division of Water to the City Engineer stating that the Contractor has returned the Siamese Valve to the City of Columbus and has paid all costs arising from the use of the fire hydrants.

SPECIAL INSPECTIONS

OBC 1704.1 General. Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under OBC Section 1704. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for the inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections specified in OBC Section 109.

OBC 1704.1.1 Statement of special inspections. The applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge as a condition for the issuance of a plan approval. This statement shall be in accordance with Section 1705.

Provide a Statement of Special Inspections, if needed, from the listing in OBC 1704 with the content as identified in OBC Section 1705.2.

Provide the qualifications for both the company and the special inspectors that demonstrate competence in the particular type of construction or operation to the building official. Please also confirm that the special inspectors are employed by the owner or the registered design professional in responsible charge

The Statement of Special Inspections, the confirmation of the employment of the special inspectors and the qualifications of the special inspectors are required to be submitted for review and acceptance by the building official before any plan approval can be issued.

City of Dublin OHIO, USA
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Project #	17055
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Revisions

Sheet Title
GENERAL NOTES

Sheet #
L0.1

LEGEND

- EXISTING TREE
- EXISTING STORM LINE
- EXISTING STORM MH
- EXISTING STORM YD
- EXISTING LIGHT POLE BASE
- 98.1 EXISTING SPOT ELEVATION
- 895 EXISTING CONTOUR LINE

NOTE:
BASE FILES PROVIDED FROM RECORD DRAWINGS OF PREVIOUS CITY PROJECT.

City of Dublin OHIO, USA

Approved for Construction
BPS.18-41952.COM.COM_EPR.5700.47147
04/30/18

POD design

Columbus
100 Northwoods Blvd, Ste A
Columbus, Ohio 43235
p 614.255.3399

Cincinnati
10816 Millington Court, Ste 118
Cincinnati, Ohio 45242
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Project Name

Coffman Park Platform Tennis

6565 Commerce Pkwy.
Dublin, Ohio 43017

Prepared For

Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

Project Info

Project #	17055
Date	03/20/18
By	GB/JD
Scale	As Noted

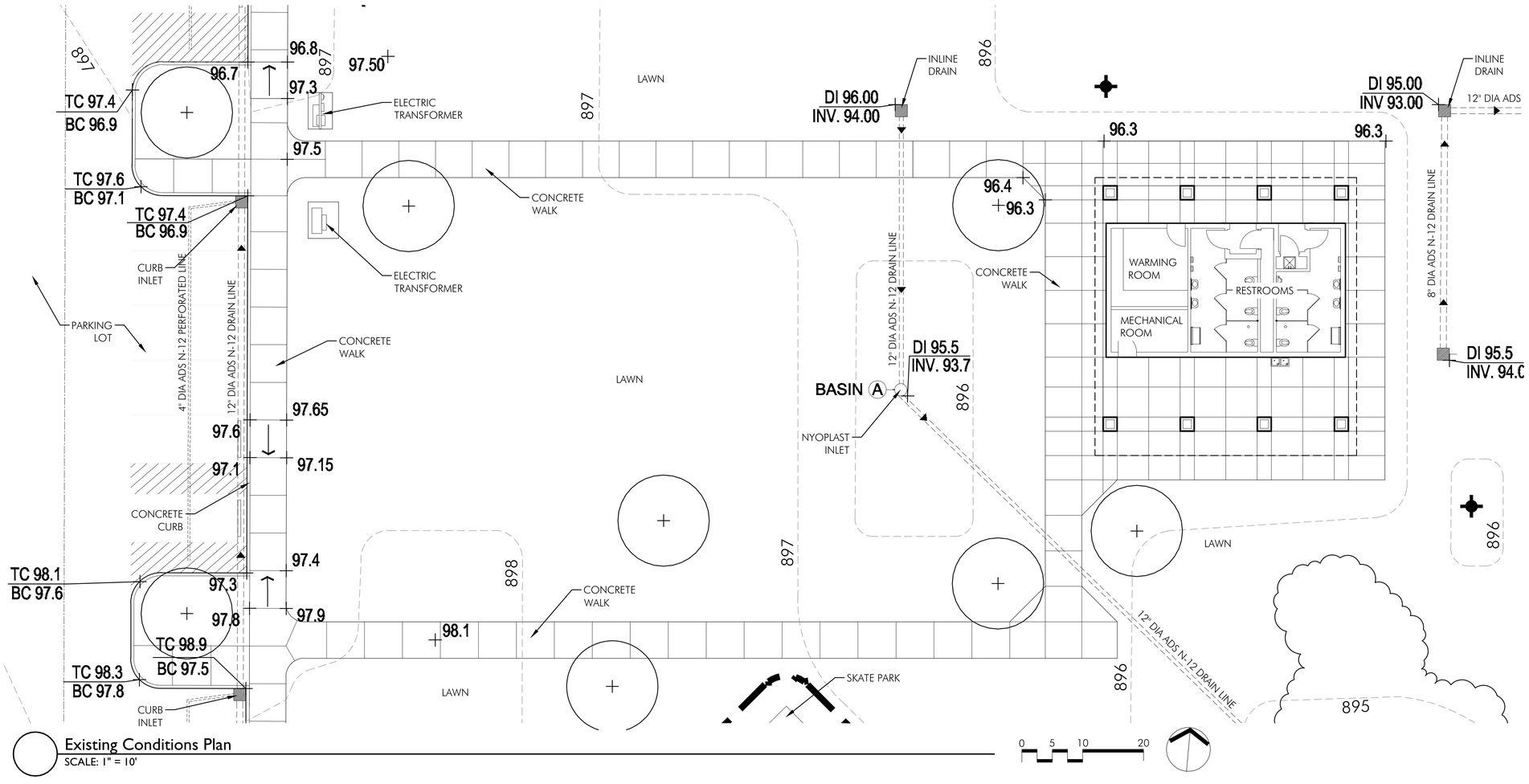
Revisions

Sheet Title

EXISTING CONDITIONS PLAN

Sheet #

L0.2



Existing Conditions Plan
SCALE: 1" = 10'

0 5 10 20

CODED NOTES

1. EXISTING BUILDING
2. EXISTING CONCRETE WALK
3. EXISTING TREE TO BE RELOCATED
4. EXISTING STORM DRAIN
5. EXISTING ELECTRICAL TRANSFORMER
6. PROPOSED BASE BID PLATFORM TENNIS COURT, SEE DETAIL 1/SD1.0
7. PROPOSED FUTURE THIRD PLATFORM TENNIS COURT, SEE DETAIL 1/SD1.0
8. PROPOSED ACCESSIBLE RAMP ACCESS TO COURT BY MANUFACTURER. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
9. PROPOSED STEPS TO ACCESS PLATFORM BY MANUFACTURER. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
10. PROPOSED COURT LIGHTING, TYP. SEE SITE ELECTRICAL PLAN.
11. PROPOSED CONCRETE WALK LANDING, SEE DETAIL 2/SD1.0
12. PROPOSED PLATFORM TENNIS FENCING BY MANUFACTURER. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
13. PROPOSED PLATFORM TENNIS GATE BY MANUFACTURER. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION. GATE TO BE OPEN TO ADJACENT LANDING/PLATFORM
14. PROPOSED PLATFORM TENNIS GATE BY MANUFACTURER. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION. GATE TO BE PERMANENTLY LOCKED BY CITY WITH NO ACCESS
15. PROPOSED ELECTRICAL STEPDOWN TRANSFORMER AND ELECTRICAL PANEL. SEE ELECTRICAL PLANS. ALL CONDUIT AND PIPING RUNS TO PLATFORM TENNIS TO BE CORED UNDER EXSITING CONCRETE WALKS.
16. PROPOSED GAS METER AND VALVES. SEE PLUMBING PLANS. ALL CONDUIT AND PIPING RUNS TO PLATFORM TENNIS TO BE CORED UNDER EXISTING CONCRETE WALKS.
17. PROPOSED PLATFORM TENNIS GAS HEATER, TYP. 6 PER COURT. SEE PLUMBING PLANS.
18. PROPOSED PLATFORM TENNIS BELOW DECK ACCESS DOOR PANEL LOCATION, MANUFACTURER TO PROVIDE SHOP DRAWING FOR ACCESS DOOR PANEL TO BE APPROVED BY THE OWNER.

GENERAL NOTE

PROPOSED PLATFORM TENNIS FOUNDATIONS SHALL NOT BE PLACED IN CONFLICT WITH UTILITIES. PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 3' BETWEEN OUTER EDGES OF FOUNDATIONS AND OUTER EDGES OF UTILITIES.

LEGEND

- EXISTING TREE TO REMAIN AND PROTECTED, SEE DETAIL SD2.0
- EXISTING STORM MH
- EXISTING STORM CB
- EXISTING LIGHT POLE BASE

IMPERVIOUS AREA ADDED = 200SF

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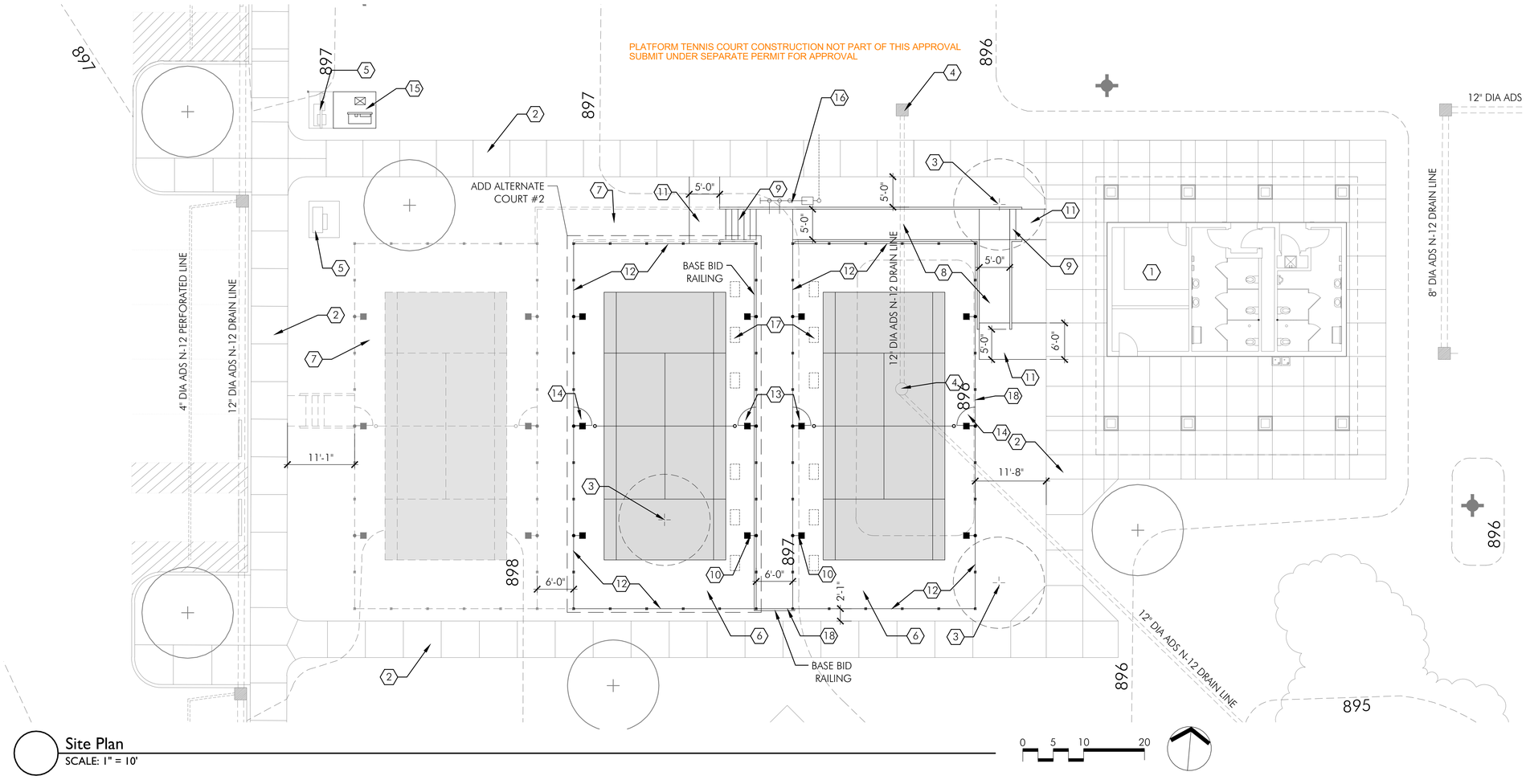

Site Plan
SCALE: 1" = 10'

0 5 10 20

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SITE LAYOUT PLAN

Sheet #

L1.0

CODED NOTES

1. EXISTING BUILDING
2. EXISTING CONCRETE WALK
3. EXISTING STORM DRAIN, PROVIDE EROSION CONTROL PROTECTION PER THE CURRENT VERSION OF THE ODNR RAINWATER & LAND DEVELOPMENT HANDBOOK
4. EXISTING ELECTRICAL TRANSFORMER
5. PROPOSED PLATFORM TENNIS COURT
6. PROPOSED FUTURE THIRD PLATFORM TENNIS COURT
7. PROPOSED ACCESSIBLE RAMP ACCESS TO COURT
8. PROPOSED STEPS TO ACCESS PLATFORM
9. PROPOSED STEP DOWN TRANSFORMER AND ELECTRICAL PANEL. SEE ELECTRICAL PLANS. ALL CONDUIT AND PIPING RUNS TO PLATFORM TENNIS COURTS TO BE CORED UNDER EXISTING WALKS.
10. CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT, LOCATIONS TO BE APPROVED BY AND COORDINATED WITH CITY PRIOR TO CONSTRUCTION. SPECIFIC REQUIREMENTS AS DIRECTED BY THE CITY.

GRADING NOTES

1. CONTRACTOR TO VERIFY WITH THE OWNER'S REPRESENTATIVE AND UTILITY COMPANIES THE LOCATIONS OF THE EXISTING UTILITIES PRIOR TO START. CALL OHIO UTILITIES PROTECTION SERVICES AT (800)362-2764. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC. RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE CONSTRUCTION OF THE PROJECT.

2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST.

3. CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.

4. DO NOT DISTURB AREAS OUTSIDE OF PROJECT LIMITS..

5. MAXIMUM SLOPES SHALL NOT EXCEED 3:1 IN LAWN AND PLANTING AREAS. MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.

6. CROSS SLOPES AT ALL WALKS SHALL NOT EXCEED 2%. MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.

7. PRESERVE EXISTING FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING FACILITIES RESULTING FROM CONSTRUCTION ACTIVITIES.

8. GRADES SHOWN INDICATE FINISH SURFACE OF FINAL PAVEMENT/PLATFORM DECK. VERIFY DEPTH OF PAVEMENT SECTION PRIOR TO ROUGH GRADING.

9. PROVIDE POSITIVE DRAINAGE FROM ALL SURFACES TO INLETS AS INDICATED, NO PONDING WILL BE PERMITTED.

10. PROTECT EXISTING TREES FROM ANY TYPE OF CONSTRUCTION TRAFFIC. CARE SHOULD BE TAKEN TO NOT COMPACT SOIL OR ADD SOIL DEPTH WITHIN DRIP LINES OF EXISTING TREES. LIMIT WORK TO DISTURBED AREAS ONLY. PROVIDE TREE PROTECTION FENCING PER TREE PROTECTION DETAIL. COORDINATE WITH OWNER'S REPRESENTATIVE AS REQUIRED.

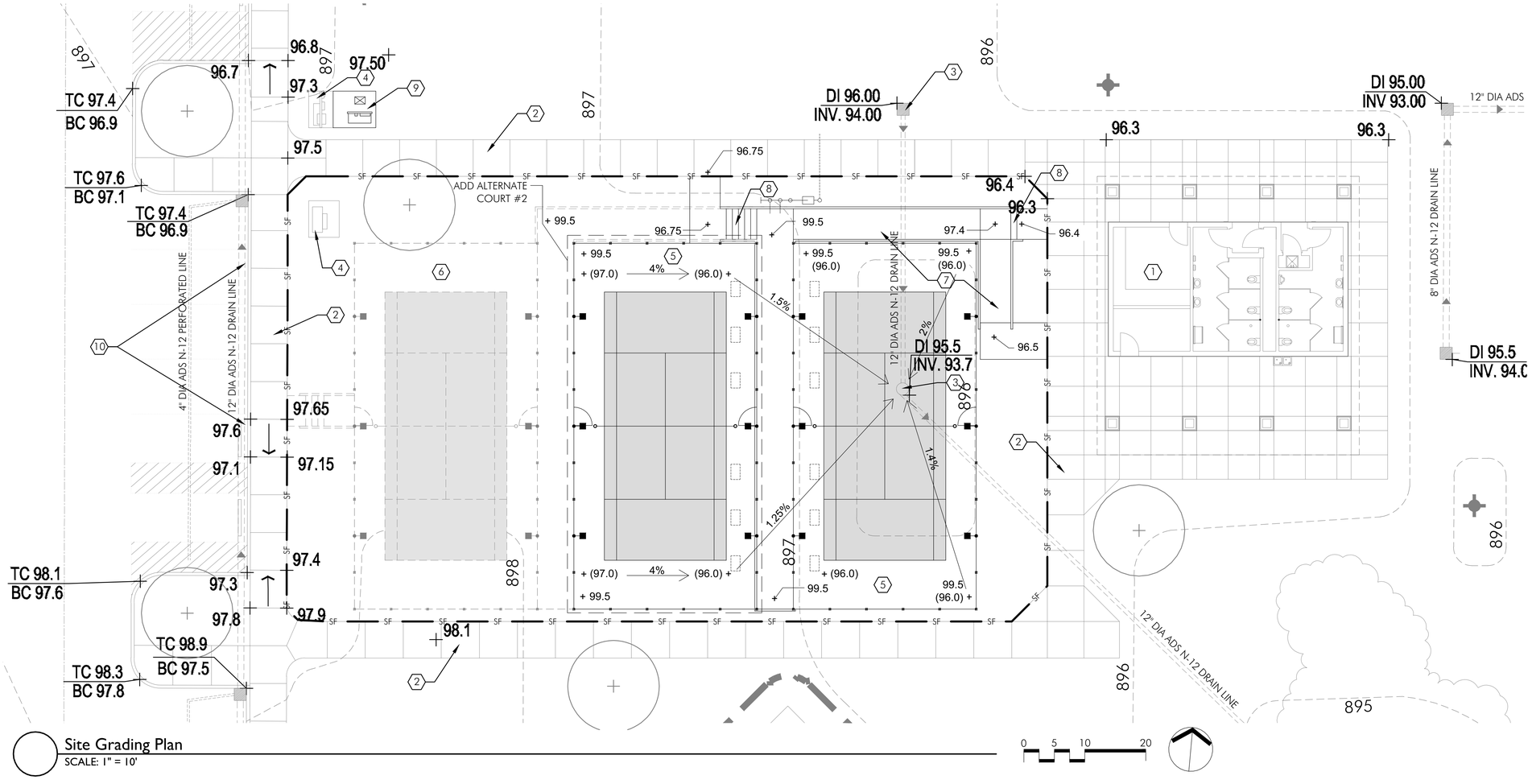
11. 9500SF OF SOIL DISTURBANCE, NO NOI REQUIRED.

SEDIMENT & EROSION CONTROL LEGEND

SF — SILT FENCE (OR FILTER SOCK) TO BE PLACED ON LEVEL CONTOURS WITH ENDS UPTURNED

LEGEND

- EXISTING TREE TO REMAIN AND BE PROTECTED, SEE DETAIL SD2.0
- EXISTING STORM LINE
- EXISTING STORM MH
- EXISTING STORM YD
- EXISTING LIGHT POLE BASE
- 98.1 EXISTING SPOT ELEVATION
- 895 EXISTING CONTOUR LINE
- + XXX.XX PROPOSED SPOT ELEVATION
- + (XXX.XX) PROPOSED FINISHED GRADE SPOT ELEVATION BELOW DECK
- X% PROPOSED SLOPE



Site Grading Plan
SCALE: 1" = 10'

0 5 10 20

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SITE GRADING PLAN

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L2.0

SEDIMENT AND EROSION CONTROL GENERAL NOTES:

1. EROSION PREVENTION & SEDIMENT CONTROL MEASURES & PRACTICES MUST COMPLY WITH THE CONSTRUCTION GENERAL PERMIT PART III.G-SWP3 REQUIREMENTS & BE INSTALLED IN ACCORDANCE WITH STANDARDS & SPECIFICATIONS IN THE CURRENT VERSION OF THE ODNR RAINWATER & LAND DEVELOPMENT HANDBOOK OR EQUAL APPROVED BY THE COUNTY SWCD.

2. FILTER FABRIC & STRAW BALES ARE NOT SUITABLE MATERIALS FOR DITCH CHECKS. SILT FENCE CAN BE USED TO CONTROL SHEET FLOW BUT IS NOT ACCEPTABLE FOR CONCENTRATED FLOW. STRAW BALES SHALL ONLY BE USED FOR RUNOFF DIVERSION & SEDIMENT CONTROL IN COMBINATION WITH OTHER MATERIALS. AN EXAMPLE IS AN ANCHORED BALE BERM OR BARRIER COVERED WITH FILTER FABRIC WHICH IS TRENCHED & BACKFILLED ON THE UPSLOPE SIDE.

3. INSTALL SILT FENCE ON CONTOUR BUT WITH THE ENDS UP SLOPE OF THE CONTOUR TO PREVENT RUNOFF FROM BYPASSING THE FENCE. FENCES ON SLOPING AREAS SHALL NOT EXCEED THE SPACING SPECIFIED IN THE OHIO CONSTRUCTION GENERAL PERMIT PART III-SWP3 FOR ACRES OF DRAINAGE PER 100 FEET OF EFFECTIVE FENCE.

4. THE CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF THE SITE TO INSURE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES AND WILL IMMEDIATELY MAKE NECESSARY REPAIRS IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE SHOWN ON THIS PLAN.

5. IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.

6. EROSION AND ANY SEDIMENTATION FROM THE WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.

7. ALL EARTH CHANGES SHALL BE CONSTRUCTED AND COMPLETED IN SUCH A MANNER TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.

8. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE. THIS ENTRANCE SHALL BE CONSTRUCTED OF CRUSHED STONE TO HELP FREE TIRES OF SOIL WHEN LEAVING THE SITE. THE CONTRACTOR SHALL INSTRUCT ALL VEHICLES TO CLEAN SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIAL SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS OR OTHER PUBLIC THOROUGHFARES DURING TRANSIT TO AND FROM THE SITE.

9. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION DEVICES AS SHOWN AND REQUIRED BY THESE PLANS. THESE DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.

10. CATCH BASINS LOCATED IN THE STREET OR NEAR THE SITE WILL BE PROTECTED TO PREVENT SEDIMENTATION FROM ENTERING FACILITY. THE COVERS SHALL BE CHECKED PERIODICALLY AND CLEANED WHENEVER THEY FAIL TO FILTER RUNOFF.

11. WHERE APPLICABLE, THE DETENTION BASIN SHALL BE USED AS A TEMPORARY SEDIMENTATION BASIN. THE CONTRACTOR SHALL INSTALL A TEMPORARY PIPE SPILLWAY AT THE OUTLET. ALL SURFACE RUNOFF FROM THE PROJECT AREAS SHALL BE DIRECTED BY TEMPORARY DRAINAGE SWALES TO THE BASINS. AT THE COMPLETION OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED THE BASINS SHALL BE CAREFULLY DRAINED WITHOUT DISTURBING THE SETTLED SILT, AND THEN GRADED AND SODDED TO CONFORM TO THE SITE GRADING PLAN.

12. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN. WITHIN THE PLAN, SEEDING HAS BEEN ASSUMED TO 5' OUTSIDE THE WORK LIMITS. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

13. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR IN CONJUNCTION WITH, THE START OF EXCAVATION AND ARE TO REMAIN IN EFFECT UNTIL AREAS ARE STABILIZED. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.

SEQUENCE OF SEDIMENT AND EROSION CONTROL OPERATIONS:

A. STRIP TOPSOIL AND UNUSABLE MATERIAL. INSTALL FILTER FABRIC FENCE AROUND ENTIRE PROJECT PERIMETER AND INSTALL FILTER FABRIC INLET PROTECTION AROUND EXISTING CATCH BASINS ON SITE.

B. INSTALL FILTER FABRIC INLET PROTECTION AROUND ALL INSTALLED YARD DRAINS AND INSTALL DANDY BAGS ON ALL CURB INLETS.

C. PROVIDE TEMPORARY SEEDING AND MULCHING ON ALL SITE AREAS THAT ARE NOT ALREADY COVERED BY PERMANENT GROUND COVER.

MAINTENANCE:

1. SILT FENCES AND BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE PREPARED AND SEEDED.

STORMWATER POLLUTION PREVENTION PLAN (SWP3):

1. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING THE SWP3 PLAN PER OHIO EPA REQUIREMENTS.

CONSTRUCTION ENTRANCE: (TO BE INSTALLED AS NEEDED/DIRECTED BY CITY OF DUBLIN)

1. STONE SIZE - No. 2 (2-1/2" TO 1-1/2") OR ITS EQUIVALENT AS DIRECTED BY THE CITY.

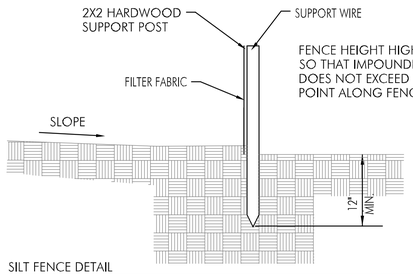
2. LENGTH - AS EFFECTIVE, AND DIRECTED BY THE CITY.

3. THICKNESS - AS DIRECTED BY THE CITY.

4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



SILT FENCE DETAIL

NTS

SPECIFICATIONS FOR SEEDING AND MULCHING:

TEMPORARY SEEDING

Seeding Dates	Species	Lb./1000 ft2	Lb/Acre
March 1 to August 15	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (4 Bushel) 40 40
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	55 142 17 17
	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (3 bushel) 40 40
August 16th to November	Rye Tall Fescue Annual Ryegrass	3 1 1	112 (2 bushel) 40 40
	Wheat Tall Fescue Annual Ryegrass	3 1 1	120 (2 bushel) 40 40
	Perennial Rye Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	40 40 40
November 1 to Feb. 29	Use mulch only or dormant seeding		

PERMANENT SEEDING

Mixture	Formula	Lbs./ Acre	Lbs./1,000 sq.ft.	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Turf-type Fescue	10-10-10	500	12		
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 years thereafter	Do not mow
Flat Pea Fescue	0-20-20	400	10		Do not mow

SEDIMENT AND EROSION CONTROL CRITERIA:

1. MEASURES & PRACTICES SHALL BE IMPLEMENTED & MAINTAINED THROUGHOUT CONSTRUCTION AS FEASIBLE, TO PRESERVE NATURAL CONDITIONS, INCLUDING: PROTECTION OF EXISTING VEGETATION (INCLUDING INDIVIDUAL TREES); MAINTENANCE OF VEGETATION BUFFER STRIPS ALONG ANY DRAINAGES, WATER BODIES & WETLANDS; AND PHASING CONSTRUCTION & CLEARING LAND IN STAGES TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY ONE TIME.

2. INDIVIDUAL TREES, TREE AREAS, AND VEGETATION TO BE SAVED SHALL BE MARKED & PROTECTED WITH A BARRIER IF NECESSARY. ENSURE THAT THERE IS NO STORAGE OF SOIL OR MATERIAL, OR CONSTRUCTION TRAFFIC WITHIN THE DRIP LINE OF THE TREES. NO TREE REMOVAL SHALL BE PERMITTED OUTSIDE OF THE CONSTRUCTION AREA WITHOUT SPECIFIC PERMISSION OF THE PROJECT ENGINEER.

3. PRIOR TO GRADING & WITHIN 7 DAYS FROM THE START OF GRUBBING, APPROPRIATE STRUCTURAL MEASURES & PRACTICES SHALL BE IMPLEMENTED TO DIRECT RUNOFF AWAY FROM, LIMIT RUNOFF FROM, AND CONTROL RELEASE OF SEDIMENT FROM ANY AREA DISTURBED BY CONSTRUCTION OR ASSOCIATED ACTIVITY ON OR OFF THE PROJECT SITE. MEASURES & PRACTICES SUCH AS PERIMETER SEDIMENT BARRIERS, SEDIMENT BASINS & DIVERSIONS INTO THEM, PIPE SLOPE DRAINS, ROCK CHECK DAMS, & PROTECTIVE GRADING MAY BE USED.

4. STRUCTURAL MEASURES & PRACTICES TO CONTROL EROSION & TRAP SEDIMENT SHALL BE IMPLEMENTED ON ANY AREA THAT IS TO REMAIN DISTURBED FOR MORE THAN 14 DAYS. MEASURES & PRACTICES SUCH AS SILT FENCES, SETTLING PONDS, STORM DRAIN INLET PROTECTION, AND DIKES OR CHANNELS TO DIRECT RUNOFF FROM DISTURBED AREAS TO A SETTLING POND SHALL BE USED.

5. ANY DISTURBED AREA ON OR OFF THE PROJECT SITE INCLUDING ANY SOIL STOCKPILE THAT WILL REMAIN IDLE FOR MORE THAN 21 DAYS, SHALL BE STABILIZED BY QUICKLY PROVIDING COVER TO CONTROL EROSION. DISTURBED AREAS MAY BE STABILIZED USING MEASURES & PRACTICES SUCH AS: SEEDING, DORMANT SEEDING, MULCHING, MULCH BLANKET, GEOTEXTILE, SOD, PRESERVATION OF EXISTING COVER, ALTERNATIVE GROUND COVER, & USE OF CONSTRUCTION ENTRANCES. STABILIZATION OF SLOPES GREATER THAN 6%, FILL SLOPES, & OTHER AREAS TENDING TO BE UNSTABLE SHALL INCLUDE MEASURES SUCH AS EROSION CONTROL BLANKET OR MATTING.

6. ANY DISTURBED AREA NOT AT FINAL GRADE THAT WILL REMAIN IDLE FOR MORE THAN 21 DAYS & LESS THAN 1 YEAR SHALL BE TEMPORARILY STABILIZED. ANY SUCH DISTURBED AREA THAT IS WITHIN 50 FEET OF A WATER BODY OR DRAINAGE COURSE, SHALL BE STABILIZED WITHIN 2 DAYS OF MOST RECENT DISTURBANCE. ANY AREA NOT WITHIN 50 FEET OF A WATER BODY OR DRAINAGE COURSE SHALL BE STABILIZED WITHIN 7 DAYS.

7. DISTURBED AREAS AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED TO ACHIEVE FINAL STABILIZATION USING MEASURES & PRACTICES SUCH AS: PERENNIAL VEGETATION COVER, LANDSCAPING MULCH, MATTING, SOD, RIP RAP, & LANDSCAPING TECHNIQUES. FINAL STABILIZATION IS ACHIEVED WHEN UNIFORM PERENNIAL COVERAGE OF AT LEAST 70% IS ESTABLISHED ON ALL AREAS NOT PAVED OR LANDSCAPED, OR WHEN EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED & TEMPORARY CONTROL PRACTICES REMOVED AFTER FINAL STABILIZATION.

8. ANY AREA WITHIN 50 FEET OF A WATER BODY OR DRAINAGE COURSE SHALL BE PERMANENTLY STABILIZED WITHIN 2 DAYS OF REACHING FINAL GRADE. ANY AREA THAT IS MORE THAN 50 FEET FROM A WATER BODY OR DRAINAGE COURSE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED IN FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED.

9. ANY DISTURBED AREA OR PART OF ANY DISTURBED AREA THAT WILL REMAIN IDLE FOR MORE THAN 1 YEAR OR OVER THE WINTER, OR ON WHICH WORK IS TO BE SUSPENDED, SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF MOST RECENT DISTURBANCE. DISTURBED AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER. EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED IN FUNCTIONAL CONDITION DURING INTERRUPTION OF CONSTRUCTION.

10. AS CONSTRUCTION IS COMPLETED ON A PART OF THE PROJECT SITE OR AN AREA ON OR OFF THE SITE IS NO LONGER NEEDED FOR STORAGE OR EQUIPMENT TRAFFIC, ANY DISTURBED AREAS NOT TO BE PAVED SHALL BE FINE GRADED & PERMANENTLY STABILIZED. THE AREAS SHALL BE GRADED TO BE CONSISTENT SURROUNDING CONTOURS FOR PROPER DRAINAGE & AESTHETICS.

11. UNNECESSARY OPERATION OF CONSTRUCTION MACHINERY SHALL BE AVOIDED NEAR A WATER BODY, WETLAND, DRAINAGE COURSE, OR STREAM RIPARIAN AREA. A BUFFER STRIP OF VEGETATION SHALL BE PRESERVED UNDISTURBED OR CREATED & MAINTAINED & ALONG SUCH AREAS.

12. PRIOR TO STARTING WORK, FILTER FABRIC FENCING SHALL BE INSTALLED & MAINTAINED TO MARK THE BOUNDARY OF THE AREA TO BE DISTURBED OR THE BUFFER STRIP. THE BUFFER SHALL MEET THE MOST RESTRICTIVE OF LOCAL, STATE, OR FEDERAL REQUIREMENTS, BUT SHOULD BE AT LEAST 25 FEET WIDE WHERE FEASIBLE, AS MEASURED FROM THE TOP OF THE BANK OR THE ORDINARY HIGH WATER MARK.

SEDIMENT FENCE DETAIL:

1. SILT FENCES. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

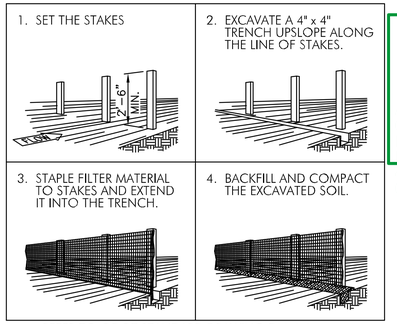
2. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE TO THE STRUCTURE.

3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAYS AND SECURELY SEALED.

4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

5. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRASTRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT, FENCE POST SPACING SHALL NOT EXCEED 6 FEET.

CONSTRUCTION OF A FILTER BARRIER



REFER TO ODOT STANDARD DRAWING DM-4.4

FILTER FABRIC FENCE

NTS

CONSTRUCTION OF A FILTER BARRIER:

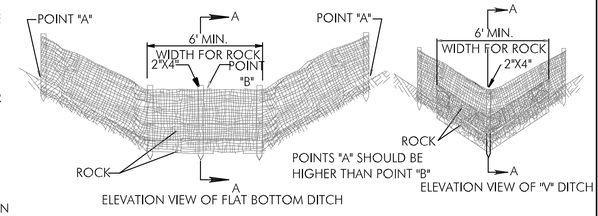
1. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FORM THE BARRIER.

2. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NT BE STAPLED TO EXISTING TREES.

3. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

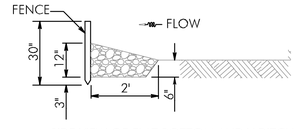
4. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.

5. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.



ELEVATION VIEW OF FLAT BOTTOM DITCH

ELEVATION VIEW OF "V" DITCH



SIDE VIEW OF FLAT BOTTOM AND V DITCH
SECTION A-A
REFER TO ODOT STANDARD DRAWING DM-4.4

FILTER FABRIC DITCH CHECKS

NTS

FILTER FABRIC DITCH CHECKS:

1. MATERIALS: FURNISH FILTER FABRIC DITCH CHECKS CONSISTING OF THE FOLLOWING MATERIALS"

A. 30" WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10'. USE FILTER FABRIC CONFORMING TO 712.09 TYPE C.
B. A VERTICALLY DRIVEN 2"X4" STAKE IN THE CENTER OF THE DITCH.

C. GRAVEL OR LIMESTONE MATERIAL CONFORMING TO ONE OF THE FOLLOWING GRADUATIONS NO. 1 THROUGH N0. 4 ON TABLE 703.01-1.

2. CONSTRUCTION: TRENCH THE FILTER FABRIC FENCE AS DETAILED FOR PERIMETER FILTER FABRIC FENCE. PLACE A VERTICAL 2"X4" STAKE IN THE CENTER OF THE DITCH WITH THE TOP LEVEL TO THE TOP OF THE FENCE AND AT LEAST 6" BELOW THE BOTTOM OF THE DITCH. EXCAVATE FOR AND PLACE THE GRAVEL OR LIMESTONE ON THE UPSTREAM SIDE OF THE DITCH CHECK.

NOTE:
THIS PLAN MUST BE POSTED ON-SITE IN THE PROJECT TRAILER.

City of Dublin OHIO, USA

Approved for Construction
BPS.18-41952.COM.COM_EPR.5700.47147
04/30/18

POD design

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Project Name

Coffman Park Platform Tennis

6565 Commerce Pkwy.
Dublin, Ohio 43017

Prepared For

Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

Project Info

Project #	17055
Date	03/20/18
By	GB/JD
Scale	As Noted

Revisions

Sheet Title

SEDIMENT & EROSION CONTROL NOTES & DETAILS:

Sheet #

L2.1

PLANT INSTALLATION NOTES

1. REFER TO GENERAL NOTES ON SHEET L1.0.
2. PLANT MATERIAL SHALL BE FURNISHED IN THE QUANTITIES AND LAYOUT AS SHOWN. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
3. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SITE ELEMENTS AND IMMEDIATELY INFORM THE CITY'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS. NO WORK SHALL BE DONE IN ANY AREA WHERE THERE IS A DISCREPANCY WITHOUT OWNER'S REPRESENTATIVE APPROVAL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN THE PROJECT REQUIRED TO PROVIDE A PROPER SEED AND PLANTING BED.
5. ALL PLANT MATERIAL TO MEET OR EXCEED AMERICAN STANDARD FOR NURSERY STOCK, 1986 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
6. ALL PLANT MATERIALS SUBJECT TO INSPECTION PRIOR, DURING AND AFTER INSTALLATION. ANY PLANT NOT MEETING THE REQUIREMENTS WILL BE CAUSE FOR REJECTION BY THE OWNER'S REPRESENTATIVE. ALL REJECTED PLANTS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE REPLACEMENT MATERIAL SHALL BE PROVIDED.
7. ALL SUBSTITUTIONS AND PLAN CHANGES MUST BE APPROVED BY CITY'S REPRESENTATIVE PRIOR TO ANY ACTION TAKEN. TREES SHALL BE PROTECTED AND HANDLED CAREFULLY AT ALL TIMES DURING TRANSPORT & HANDLING TO PREVENT DRYING OF TREE OR ROOT BALL BY WINDS AND TO PREVENT ANY DAMAGE OR BREAKAGE OF THE ROOT BALL. BARK SHALL BE PROTECTED FROM BRUISING OR ABRASION.
8. WATER TREES IMMEDIATELY AFTER PLANTING AND CONTINUE TO WATER UNTIL FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE.
9. PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY CITY'S REPRESENTATIVE PRIOR TO PLANT INSTALLATION.
10. MULCH PLANTING BEDS WITH TWO INCHES (2") DEPTH OF DARK, SHREDDED HARDWOOD MULCH. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
11. ALL AREAS OUTSIDE OF PLANTING BEDS SHALL BE SEEDED OR SODDED AS SHOWN ON THE PLANS AND NOTED IN THE TECHNICAL SPECIFICATIONS.
12. FINISHED TURF (SOD OR SEED) TO BE FLUSH WITH TOP OF ADJACENT CURB OR WALK. COORDINATE WITH OWNER'S REPRESENTATIVE IN FIELD AS REQUIRED.
13. THE CONTRACTOR SHALL GUARANTEE ALL TREES FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPLACE MATERIAL WITHIN SEVEN (7) DAYS OF NOTIFICATION OF THE OWNER'S REPRESENTATIVE.
14. PERFORM CLEANING DURING INSTALLATION OF LANDSCAPE WORK AND UPON COMPLETION. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPING OPERATIONS. SWEEP AND HOSE DOWN PAVED SURFACES AFFECTED BY LANDSCAPING OPERATIONS. COORDINATE WITH OWNER'S REPRESENTATIVE AND OTHER CONTRACTORS FOR FINAL CLEANUP PRIOR TO CLEANING.

QUALITY ASSURANCE:

1. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS COMPLETED LANDSCAPING WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL TREE AND SHRUB ESTABLISHMENT.
2. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON THE PROJECT SITE DURING TIMES THAT TREE AND SHRUB PLANTING IS IN PROGRESS.
3. PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF TREES INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK."
4. OBSERVATION: LANDSCAPE ARCHITECT RETAINS RIGHT TO OBSERVE PLANTS FURTHER FOR SIZE AND CONDITION OF ROOT BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES PLANTS IMMEDIATELY FROM PROJECT SITE.

GENERAL PLANT NOTES

1. EACH TREE THAT IS PLANTED IN TURF SHALL HAVE A 6' DIAMETER MULCH RING.
2. CONTRACTOR MAY SLIGHTLY FIELD ADJUST PLANT LOCATIONS AS NECESSARY TO AVOID UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.
3. BED EDGE SHALL BE SMOOTH, CONSISTENT, HAND TRENCHED 3" TO 4" DEEP AND "V" SHAPED UNLESS OTHERWISE NOTED. ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE BED EDGE AND PLANTING BED.
4. ALL PLANTING BED EDGES TO BE SMOOTH FLOWING ARCS OR STRAIGHT LINES AS SHOWN ON PLAN. PLANT LOCATIONS AND LAYOUT OF BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO PLANTING.
5. RAISED BEDS, INCLUDING MULCH, SHALL BE NO HIGHER THAN 6 INCHES ABOVE ADJACENT GRADE.

SEEDING:

1. DO NOT START FINISH SEEDING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED AND AFTER ROUGH GRADING, FINISH GRADING AND ANY OTHER WORK AFFECTING GROUND SURFACE IS COMPLETED.
2. REMOVE STONES, STICKS, CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS DEBRIS.
3. DELAY TILLING IF THE GROUND IS WET; THE SOIL MUST BE DRY ENOUGH TO BREAK APART WHEN TILLED.
4. SEED ALL AREAS WITHIN CONTRACT LIMITS THAT ARE NOT COVERED BY PAVING, BUILDINGS OR PLANTING BEDS UNLESS OTHERWISE NOTED. SEEDING SHALL NOT BEGIN UNTIL AREA HAS RECEIVED TOPSOIL AND FINISHED GRADE.
5. GRADE LAWN AREAS TO A SMOOTH, FREE-DRAINAGE EVEN SURFACE WITH A LOOSE, MODERATELY COARSE TEXTURE. ROLL, AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS AS REQUIRED TO DRAIN. SURFACE SHALL BE GRADED TO SUCH ELEVATION SO THE LAWN SHALL BE FLUSH WITH ANY ADJACENT TURF AREA, PAVEMENT OR CURB.
6. INSURE THAT SOIL AT ALL PAVEMENT EDGES WHERE LAWN WILL BE ESTABLISHED ARE HAND TAMPED TO MINIMIZE SETTLING.
7. FOLLOW SUPPLIER'S RECOMMENDED SEEDING APPLICATION RATE AND INSTALLATION PROCEDURES.
8. RAKE FINISH GRADE LIGHTLY UNTIL SURFACE IS SMOOTH, LOOSE, PULVERIZED.
9. SPREAD EVENLY SOWING EQUAL QUANTITIES IN 2 DIRECTIONS, AT RIGHT ANGLES TO EACH OTHER.
10. RAKE OR DRAG SURFACE OF THE SOIL LIGHTLY TO INCORPORATE SEED INTO TOP 1/8" OF SOIL.
11. IMMEDIATELY AFTER SEEDING, COVER AREAS WITH APPROVED MULCH; EVENLY SPREAD AT A RATE OF 2 ½ TONS PER ACRE. WATERING: FOLLOWING INSTALLATION OF SEEDED LAWNS, ENTIRE AREA WILL BE WATERED BY USE OF LAWN SPRINKLERS. INITIAL WATERING SHALL CONTINUE UNTIL THE EQUIVALENT OF 2" DEPTH OF WATER HAS BEEN APPLIED OVER THE ENTIRE LAWN AREA, AT A RATE, WHICH WILL NOT DISLODGE SEED. WATERING METHODS AND EQUIPMENT WHICH MAY CAUSE EROSION AND / OR COMPACTION OF THE SURFACE WILL NOT BE PERMITTED.

SEEDING SCHEDULE

1. CONFIRM WITH LANDSCAPE ARCHITECT WATERING SCHEDULE REQUIREMENTS DURING AND AFTER INSTALLATION.
2. CONFIRM DIRECTIONS FROM SEED MIX SUPPLIERS FOR TYPICAL LOCAL INSTALLATION SCHEDULING:
SEED OVER TREATED BEDS DURING DECEMBER 15TH - JANUARY 15
FALL SEEDING BETWEEN SEPTEMBER 15 - DECEMBER 15
COVER CROP INSTALLATION NO LATER THAN OCTOBER 15
NO SEEDING BETWEEN JUNE 15TH - SEPTEMBER 15

IMPORTED SOIL AMENDMENTS:

1. UNLESS OTHERWISE STATED, IT IS EXPECTED THAT THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL LABOR,MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE WORK DESCRIBED HEREIN IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR TERMS OF THE CONTRACT.
2. IF SOIL IS NEEDED TO INSURE POSITIVE DRAINAGE, PROVIDE IMPORTED TOPSOIL.
3. PROVIDE TOPSOIL AS PER ASTM D 5268, FERTILE, FRIABLE, NATURALLY LOAMY, PH RANGE OF 5.5 TO 7, 4 PERCENT ORGANIC MATERIAL MINIMUM,FREE OF TREE ROOTS, STUMPS, BUILDING MATERIAL, AND TRASH, AND SHALL BE FREE OF STONES LARGER THAN 11/2 INCHES IN ANY DIMENSION. TOPSOIL SHALL BE FREE OF QUACKGRASS RHIZOMES (AGROPYRON REPENS) AND THE NUT-LIKE TUBERS OF NUTSEDGE (CYPERUS ESCU/ENTUS).
4. SEEDED AND SODDED AREAS: FILL DEPRESSIONS WITH ON-SITE STOCKPILE SOIL.

GRADING:

1. TOPSOIL THAT IS IMPORTED ON SITE SHALL BE UNIFORMLY DISTRIBUTED ON THE DESIGNATED AREAS. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT PLANTING INSTALLATION CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOP SOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR CROWNS. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION OR WHEN THE SUB-GRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SEEDING, SODDING, AND PLANTING INSTALLATION.
2. ALL PREVIOUSLY ESTABLISHED GRADES SHALL BE MAINTAINED IN CONFORMANCE WITH THE DRAWINGS AND/OR OTHER SPECIFICATIONS.
3. TILLAGE: ANY APPLIED LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP FOUR INCHES OF SOIL.
4. ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE RESULTING FROM FERTILIZING, LIMING, OR OTHER CAUSES SHALL BE LEVELED PRIOR TO TURFGRASS SEED OR SOD INSTALLATION. AREAS DAMAGED BY FLOODING OR EROSION SHALL BE RECONSTRUCTED AND ALL GRADES REESTABLISHED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS AND/OR OTHER APPLICABLE SPECIFICATIONS.
5. CARE SHOULD BE TAKEN TO KEEP EQUIPMENT OFF PREPARED AREAS AFTER TOPSOIL MIX HAS BEEN PLACED. PARTICULAR CARE SHOULD BE TAKEN TO AVOID "COMPACTION" DURING THE GRADING PROCESS. THE USE OF CLAY SOILS FOR GRADING MATERIAL AND THE UTILIZATION OF HEAVY EQUIPMENT FOR SURFACE PREPARATION WILL CONTRIBUTE TO SOIL COMPACTION.

ACCEPTANCE:

1. ACCEPTANCE SHALL BE GIVEN BY THE OWNER OR HIS OR HER AGENT UPON SATISFACTORY COMPLETION OF EACH SECTION OR AREA INDICATED ON THE DRAWINGS OR AS OTHERWISE SPECIFIED. ACCEPTANCE SHALL BE RECORDED AND SIGNED BY THE OWNER OR AUTHORIZED AGENT.
2. PROVIDE APPROVED EROSION CONTROL MEASURES BEFORE AND AFTER SEEDING, SODDING, AND PLANTING
3. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL FINAL ACCEPTANCE

EXCAVATION:

1. PITS AND TRENCHES: EXCAVATE WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION SLIGHTLY RAISED AT CENTER TO ASSIST DRAINAGE. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION.
2. TREES AND SHRUBS: EXCAVATE APPROXIMATELY 3 TIMES AS WIDE AS BALL DIAMETER AND EQUAL TO BALL DEPTH PLUS 9 INCHES SETTING LAYER DEPTH
3. WHERE DRAIN TILE IS SHOWN OR REQUIRED UNDER PLANTED AREAS, EXCAVATE TO TOP OF POROUS BACKFILL OVER TILE.
4. OBSTRUCTIONS: NOTIFY LANDSCAPE ARCHITECT IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.
5. DRAINAGE: NOTIFY LANDSCAPE ARCHITECT IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PITS.
6. FILL EXCAVATIONS WITH WATER AND ALLOW TO PERCOLATE OUT, BEFORE PLACING SETTING LAYER AND POSITIONING TREES AND SHRUBS.

PLANTING:

1. PLANTS SHOULD BE INSTALLED THE SAME DAY THE HOLES ARE CREATED. SET BALLED AND BURLAPPED STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.
2. PLACE STOCK ON SETTING LAYER OF COMPACTED PLANTING SOIL.
3. REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF BALLS AND PARTIALLY FROM SIDES, BUT DO NOT REMOVE FROM UNDER BALLS. REMOVE PALLETS, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
4. DIG HOLES FOR TREES AT LEAST 3X THE WIDTH OF THE CONTAINER OR B&B.
5. PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. GENEROUSLY SOAK AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.
6. BACKFILLING: THOROUGHLY BREAK DOWN THE SOIL THAT HAS BEEN DUG OUT INTO SMALL PIECES AND GRANULES AND MIXED THOROUGHLY WITH SOLID AMENDMENTS AS SPECIFIED AND WITH "ROOTS
TRANSPLANT 1-STEP 2-2-2" AND "SIERRABLEN 17-6-10". BACKFILL IS ADDED TO THE HOLE AND TAMPED WITH FEET OR HAND TOOLS AS IT IS PLACED INTO THE PIT. DO NOT USE FROZEN OR MUDDY MIXTURES FOR BACKFILLING. FOR INDIVIDUAL TREES FORM A RING OF SOIL OUTSIDE OF THE BALL EDGE THAT IS APPROXIMATELY 6' WIDE AT THE BASE AND 3" IN HEIGHT TO THE TOP OF THE RING WITH THE EXCESS BACKFILL MIXTURE AS A MEANS TO RETAIN WATER. DO NOT COVER TOP OF THE TREE AND SHRUB ROOT BALL WITH BACKFILL.
7. DISH AND TAMP TOP OF BACKFILL TO FORM A 3-INCH- HIGH MOUND AROUND THE RIM OF THE PIT. DO NOT COVER TOP OF ROOT BALL WITH BACKFILL.

SOD: (USE ONLY IF REQUESTED BY OWNER).

1. TURFGRASS SOD SUPPLIERS: SOD SHALL SUPPLIED BY LOCAL SUPPLIERS, SUCH AS TURPIN FARMS (513)561-2621 OR APPROVED EQUAL.
2. SOD QUALITY: SOD SHALL BE OF GOOD QUALITY, FREE OF WEEDS, DISEASE AND INSECTS AND OF GOOD COLOR AND DENSITY.
3. THICKNESS OF CUT: TURF SHALL BE MACHINE-CUT AT A MINIMUM UNIFORM SOIL THICKNESS NECESSARY FOR PLANT VIABILITY DURING THE HARVEST-TRANSPORT-INSTALLATION CYCLE.
4. PAD SIZE: INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT.
5. STRENGTH OF SOD SECTIONS: STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
6. REPLACEMENT: THE POLICY FOR REPLACEMENT OF SOD IS DEPENDENT UPON EACH INDIVIDUAL FARM. MOST REPLACEMENTS EXTEND ONLY TO THE COST OF THE SOD INVOLVED, NOT LABOR OR TRANSPORTATION EXPENSES. NOTIFICATION OF DEFECTIVE SOD MUST BE MADE WITHIN 24 HOURS OF DELIVERY. FAILURE TO NOTIFY THE TURF FARM WITHIN THE SPECIFIED TIME PERIOD CAN RESULT IN THE FARM'S REFUSAL TO REPLACE THE SOD.
7. NO SOD SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR HERBICIDES UNTIL SUFFICIENT TIME HAS ELAPSED TO PERMIT THE DISSIPATION OF TOXIC MATERIALS. THE LANDSCAPE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY LOSS OR DAMAGE TO SOD ARISING FROM IMPROPER USE OF STERILANTS OR DUE TO HIS OR HER FAILURE TO ALLOW SUFFICIENT TIME TO PERMIT DISSIPATION OF TOXIC MATERIALS, WHETHER OR NOT SUCH STERILANTS ARE SPECIFIED HEREIN.

SOD INSTALLATION: (USE ONLY IF REQUESTED BY OWNER).
CONFIRM WITH SOD FARM SUPPLIER DIRECTIONS FOR PROPER INSTALLATIONS.

1. MOISTENING THE SOIL: AFTER ALL GRADING HAS BEEN COMPLETED, THE SOIL SHALL BE IRRIGATED WITHIN 12 TO 24 HOURS PRIOR TO LAYING THE SOD. SOD SHOULD NOT BE LAID ON SOIL THAT IS DRY AND POWDERY.
2. STARTER STRIP: THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE, WITH SUBSEQUENT ROWS PLACED PARALLEL TO, AND TIGHTLY AGAINST, EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT THE TURF IS NOT STRETCHED OR OVERLAPPED, AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE AIR-DRYING OF THE ROOTS.
3. WATERING: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SOD IMMEDIATELY DURING AND AFTER INSTALLATION TO PREVENT DRYING. IT SHALL THEN BE THOROUGHLY IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE NEW SOD PAD AND SOIL IMMEDIATELY BELOW THE SOD ARE THOROUGHLY WET (USUALLY 1 INCH OF WATER IS NEEDED).

DELIVERY, STORAGE, AND HANDLING:

1. DELIVER FRESHLY DUG TREES. DO NOT PRUNE BEFORE DELIVERY, EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING DELIVERY. DO NOT DROP TREES AND SHRUBS DURING DELIVERY.
2. IMMEDIATELY AFTER DIGGING BARE-ROOT STOCK, PACK ROOT SYSTEM IN WET STRAW, HAY, OR OTHER SUITABLE MATERIAL TO KEEP ROOT SYSTEM MOIST UNTIL PLANTING.
3. HANDLE BALLED AND BURLAPPED STOCK BY THE ROOT BALL.
4. DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
5. HEEL-IN BARE-ROOT STOCK. DO NOT DRY OUT ROOT SYSTEMS.
6. SET BALLED STOCK ON GROUND AND COVER BALL WITH SOIL, PEAT MOSS, SAWDUST, OR OTHER ACCEPTABLE MATERIAL.
7. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING.
8. WATER ROOT SYSTEMS OF TREES AND SHRUBS STORED ON SITE WITH A FINE-MIST SPRAY. WATER AS OFTEN AS NECESSARY TO MAINTAIN ROOT SYSTEMS IN A MOIST CONDITION.

COORDINATION AND SCHEDULING:

1. DO NOT PLANT TREES IN FROZEN GROUND OR IN STANDING WATER.
2. PLANT TREES AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING LAWNS, UNLESS OTHERWISE ACCEPTABLE TO LANDSCAPE ARCHITECT.
3. WHEN PLANTING TREES AFTER LAWNS, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE CAUSED BY PLANTING OPERATIONS.
4. DETERMINE LOCATION OF ABOVE GRADE AND UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID DAMAGE. HAND EXCAVATE, AS REQUIRED. MAINTAIN GRADE STAKES UNTIL REMOVAL IS MUTUALLY AGREED UPON BY PARTIES CONCERNED.
5. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY LANDSCAPE ARCHITECT BEFORE PLANTING.
6. IF NOTED ON THE DRAWINGS FOR MATCHING PLANTS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER LABEL TO ASSURE SYMMETRY IN PLANTING.

QUALITY REQUIREMENTS

1. SHADE TREES: SINGLE-STEM TREES WITH STRAIGHT TRUNK, WELL-BALANCED CROWN, AND INTACT LEADER, OF HEIGHT AND CALIPER INDICATED, CONFORMING TO ANSI Z60.1 FOR TYPE OF TREES REQUIRED.
BRANCHING HEIGHT: 1/3 TO 1/2 OF TREE HEIGHT.
BRANCHING HEIGHT: 1/2 OF TREE HEIGHT.
2. SMALL TREES: SMALL UPRIGHT OR SPREADING TYPE, BRANCHED OR PRUNED NATURALLY ACCORDING TO SPECIES AND TYPE, AND WITH RELATIONSHIP OF CALIPER, HEIGHT, AND BRANCHING RECOMMENDED BY ANSI Z60.1, AND STEM FORM AS FOLLOWS:
FORM: SINGLE STEM.
FORM: MULTISTEM, CLUMP, WITH 3 OR MORE MAIN STEMS.
FORM: MULTISTEM, SHRUB, WITH MULTIPLE STEMS.

City of Dublin OHIO, USA
Approved for Construction
BPS 18-41952.COM_EPR.5700.47147
04/30/18

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Project Name
Coffman Park Platform Tennis
6565 Commerce Pkwy.
Dublin, Ohio 43017

Prepared For
Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

Project Info

Project #	17055
Date	03/20/18
By	GB/JD
Scale	As Noted

Revisions

Sheet Title
PLANTING NOTES

Sheet #
L3.0

PLANT LIST

	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
SHRUBS						
25	BU SI	Buxus sinica var. insularis 'Wintergreen'	Wintergreen Boxwood	18" hgt.	B&B	As Shown
PERENNIALS, GROUNDCOVERS, & ORNAMENTAL GRASSES						
66 Base Bid	CA AC	Calamagrastis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 GAL.	Cont.	As Shown
15 Add Alt.	CA AC	Calamagrastis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 GAL.	Cont.	As Shown
148	HE PM	Hemerocallis ' Pardon Me'	Pardon Me Daylily	#2	Cont.	As Shown

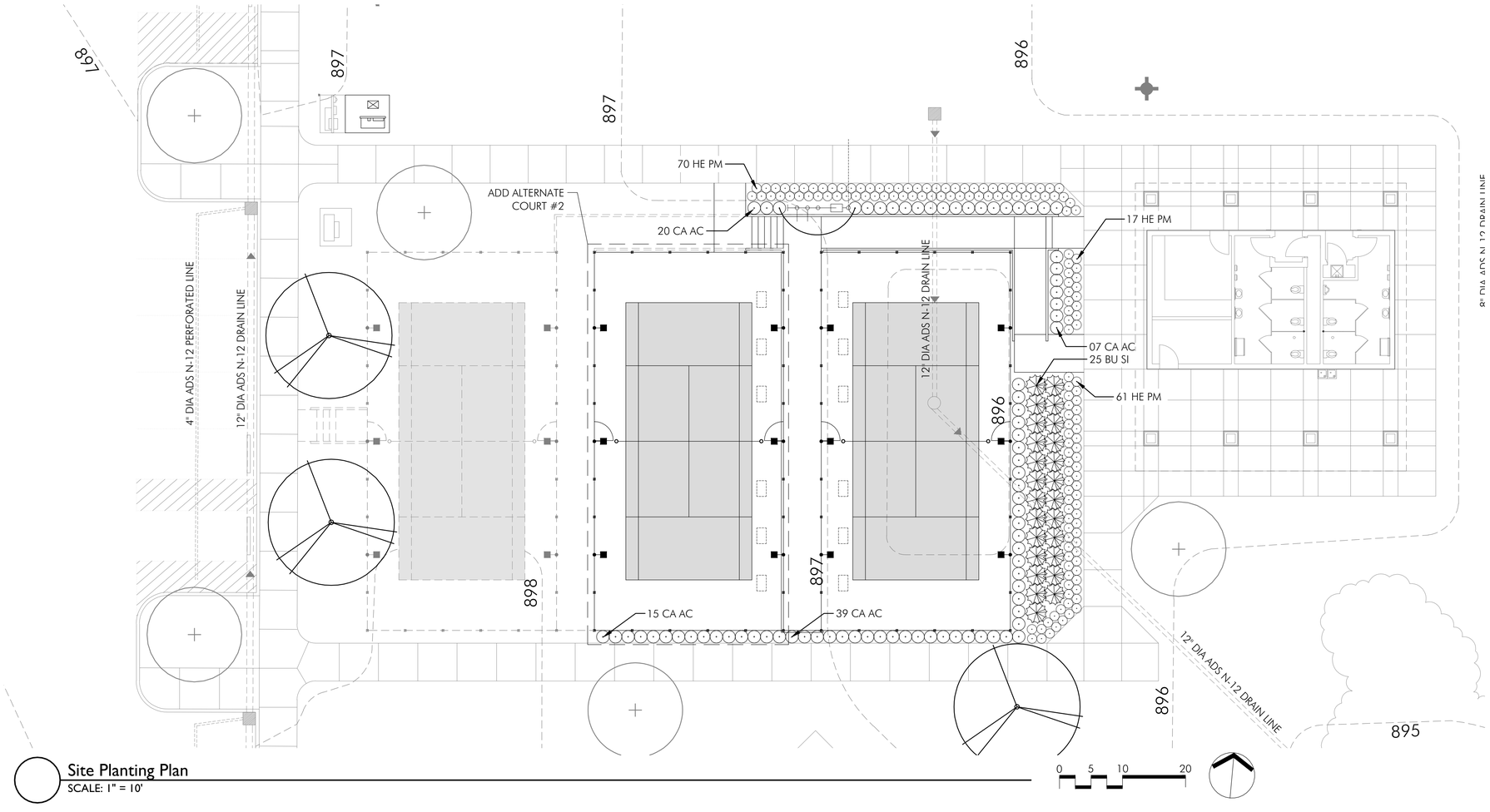
PLANT INSTALLATION NOTES (REFER TO SPECIFICATIONS)

1. CONTRACTOR SHALL VERIFY WITH THE OWNER AND UTILITY COMPANIES THE LOCATIONS OF THE EXISTING UTILITIES PRIOR TO STARTING WORK. CALL THE OHIO UTILITIES PROTECTION SERVICE AT (800) 362-2764. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC. RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE CONSTRUCTION OF THE PROJECT.
2. PLANT MATERIAL SHALL BE FURNISHED IN THE QUANTITIES AND/OR SPACING AS SHOWN OR NOTED. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
3. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SITE ELEMENTS AND IMMEDIATELY INFORM THE OWNER AND DESIGN CONSULTANT OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS. NO WORK SHALL BE DONE IN ANY AREA WHERE THERE IS A DISCREPANCY WITHOUT OWNER'S APPROVAL.
4. CONTACT THE OWNER TO REQUEST ELECTRONIC FILES FOR LAYOUT AND STAKING.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN THE PROJECT REQUIRED TO PROVIDE A PROPER SOD AND PLANTING BED.
6. CONTRACTOR SHALL PROVIDE THE FOLLOWING SOIL AMENDMENTS:
   SOIL AMENDMENT:
   'COM-TIL' ORGANIC COMPOST (OR EQUAL)
   7000 STATE ROUTE 104
   SOUTH LOCKBOURNE, OHIO 43137
   (614) 645-3152

   PERENNIAL BED AREAS:
   SPREAD 3" OF 'COM-TIL' OVER NEW LANDSCAPE AREAS AND INCORPORATE INTO THE TOP 8" OF THE SOIL BY MECHANICAL TILLER.

   TREES AND SHRUBS:
   MIX 30% 'COM-TIL' TO 70% EXISTING SOIL FROM PLANT PIT EXCAVATION. IF EXCAVATED SOIL IS NOT SUITABLE, SUPPLEMENT WITH IMPORTED TOPSOIL.

   TURF: SEE SPECIFICATIONS FOR TURF MIX AND SOIL PROFILE FOR EVENT TURF, NO SUBSTITUTIONS.
7. ALL PLANT MATERIAL TO MEET OR EXCEED AMERICAN STANDARD FOR NURSERY STOCK, 1986 EDITION AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
8. ALL PLANT MATERIALS SUBJECT TO INSPECTION PRIOR, DURING AND AFTER INSTALLATION. ANY PLANT NOT MEETING THE REQUIREMENTS WILL BE CAUSE FOR REJECTION BY THE OWNER. ALL REJECTED PLANTS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE REPLACEMENT PLANT SHALL BE PROVIDED.
9. BED LINE TO BE 18" FROM BASE OF PLANT MATERIAL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
10. ALL SHRUB AND BED AREAS TO BE MULCHED WITH TWO INCHES (2") DEPTH MINIMUM SHREDDED HARDWOOD MULCH. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
11. ALL AREAS OUTSIDE OF PLANTING BEDS SHALL BE SODDED AS SHOWN AND NOTED .
12. FINISHED TURF (SOD) TO BE FLUSH WITH TOP OF ADJACENT CURB OR WALK. COORDINATE WITH OWNER IN FIELD AS REQUIRED.
13. THE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS AND GROUND COVERS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPLACE MATERIAL WITHIN SEVEN (7) DAYS OF NOTIFICATION OF THE OWNER
14. PERFORM CLEANING DURING INSTALLATION OF LANDSCAPE WORK AND UPON COMPLETION. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPING OPERATIONS. SWEEP AND HOSE DOWN PAVED SURFACES AFFECTED BY LANDSCAPING OPERATIONS. COORDINATE WITH OWNER AND OTHER CONTRACTORS FOR FINAL CLEANUP PRIOR TO CLEANING.



Site Planting Plan
SCALE: 1" = 10'

PLANTING LEGEND

- 1 XX XX — PLANT CALLOUT, SEE PLANT LIST ON SHEET L3.0
- EXISTING TREE TO REMAIN AND BE PROTECTED, SEE DETAIL SD2.0
- PROPOSED RELOCACTED TREE
- SHRUBS / PERENNIALS

LEGEND

- EXISTING STORM LINE
- EXISTING STORM CB
- EXISTING STORM YD
- EXISTING LIGHT POLE BASE

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Columbus, Ohio 43235
p 614.255.3399

Cincinnati
10816 Millington Court, Ste 118
Cincinnati, Ohio 45242
p 614.360.3066

PODdesign.net

Project Name
Coffman Park Platform Tennis
6565 Commerce Pkwy.
Dublin, Ohio 43017

Prepared For
Mr. Matt Earman, Director
City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

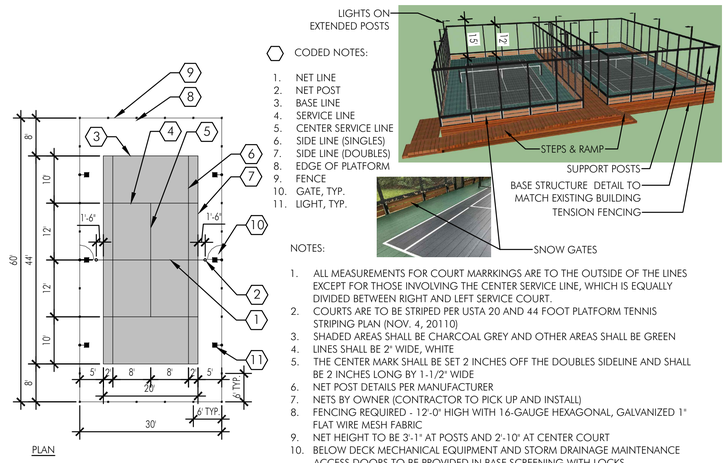
Project Info

Project #	17055
Date	03/20/18
By	GB/JD
Scale	As Noted

Revisions

Sheet Title
SITE PLANTING PLAN

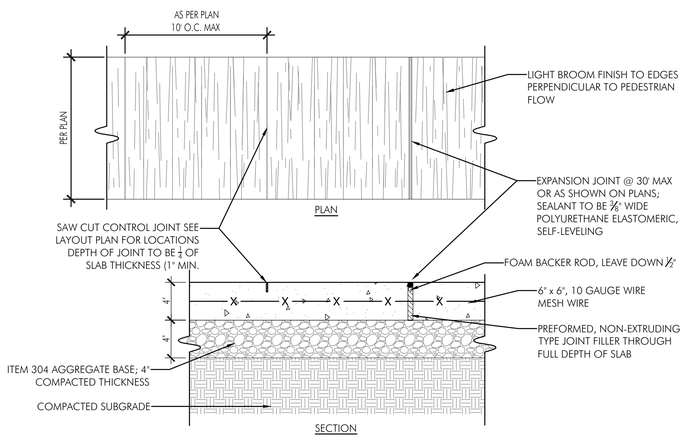
Sheet #
L3.1



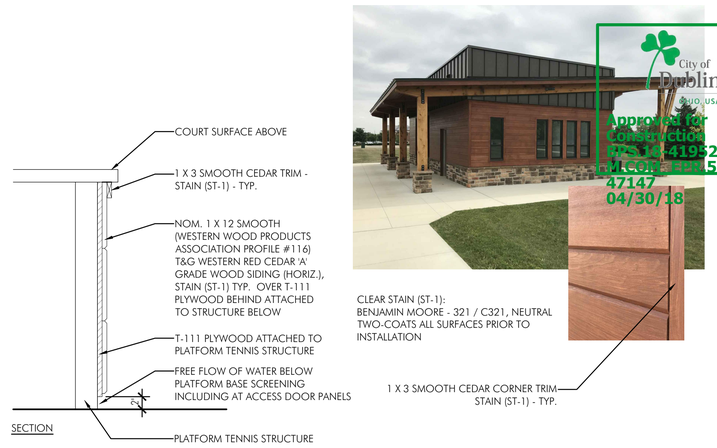
NOTES:

1. ALL MEASUREMENTS FOR COURT MARKINGS ARE TO THE OUTSIDE OF THE LINES EXCEPT FOR THOSE INVOLVING THE CENTER SERVICE LINE, WHICH IS EQUALLY DIVIDED BETWEEN RIGHT AND LEFT SERVICE COURT.
2. COURTS ARE TO BE STRIPED PER USTA 20 AND 44 FOOT PLATFORM TENNIS STRIPING PLAN (NOV. 4, 20110)
3. SHADED AREAS SHALL BE CHARCOAL GREY AND OTHER AREAS SHALL BE GREEN
4. LINES SHALL BE 2" WIDE, WHITE
5. THE CENTER MARK SHALL BE SET 2 INCHES OFF THE DOUBLES SIDELINE AND SHALL BE 2 INCHES LONG BY 1-1/2" WIDE
6. NET POST DETAILS PER MANUFACTURER
7. NETS BY OWNER (CONTRACTOR TO PICK UP AND INSTALL)
8. FENCING REQUIRED - 12'-0" HIGH WITH 16-GAUGE HEXAGONAL, GALVANIZED 1" FLAT WIRE MESH FABRIC
9. NET HEIGHT TO BE 3'-1" AT POSTS AND 2'-10" AT CENTER COURT
10. BELOW DECK MECHANICAL EQUIPMENT AND STORM DRAINAGE MAINTENANCE ACCESS DOORS TO BE PROVIDED IN BASE SCREENING WITH LOCKS.

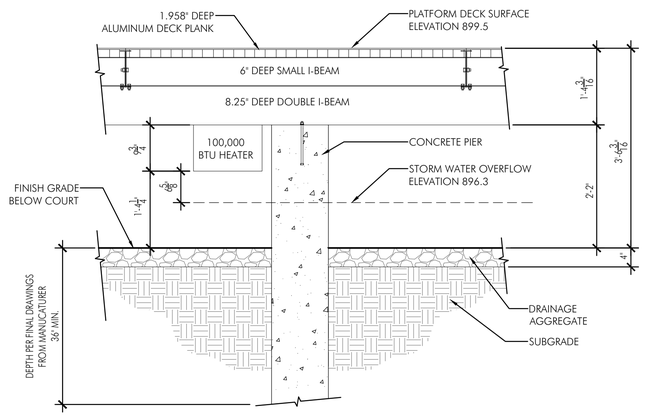
1 Platform Tennis Court Layout
1/16" = 1'-0"



2 Standard Concrete Walk
1½"=1'-0"



3 Base Structure Detail to Match Existing Restroom Building
1"=1'-0"



4 Typical Platform Section at Heater Locations
3/4"=1'-0"

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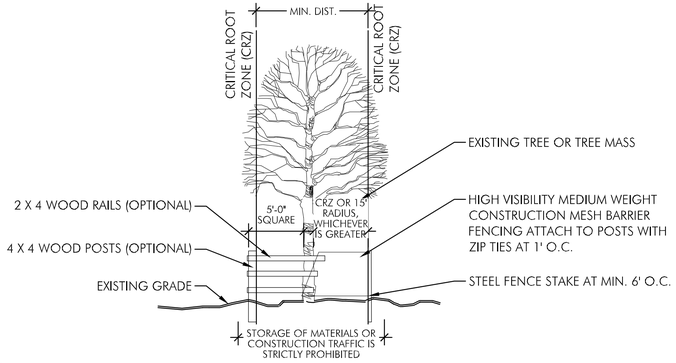
SITE DETAILS & REFERENCE IMAGES

Sheet #

SD1.0

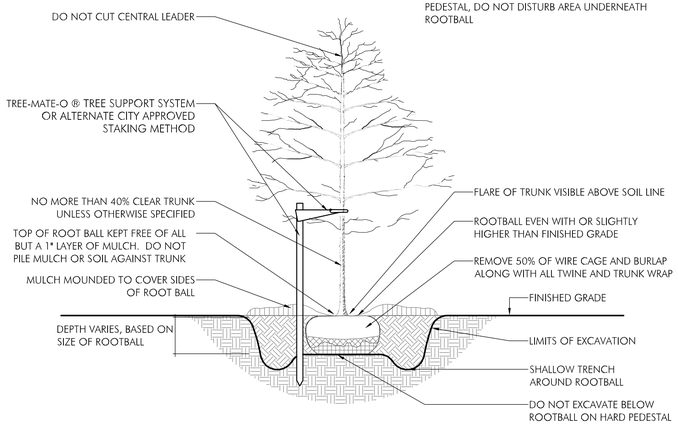
NOTES:
1. INSPECTION OF INSTALLATION IS REQUIRED CALL (614) 410- 4600
2. THE CITY IS TO BE CONTACTED IF FENCE LOCATION NEEDS TO BE ADJUSTED OR PRIOR TO ANY ENCROACHEMNT OF PRESERVATION AREA

CRITICAL ROOT ZONE (CRZ)
1 FOOT FOR EVERY INCH OF DIAMETER BREAST HEIGHT (DBH) OVER 6 INCH CALIPER TREE



1 Tree Protection Fencing
N.T.S.

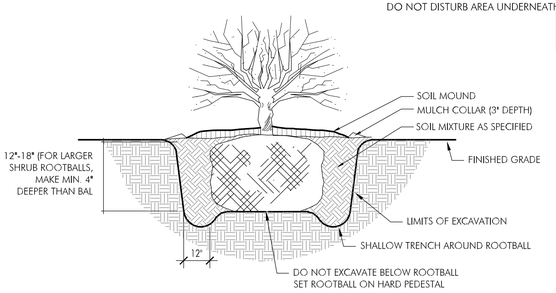
NOTES:
1. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL, DO NOT DISTURB AREA UNDERNEATH ROOTBALL



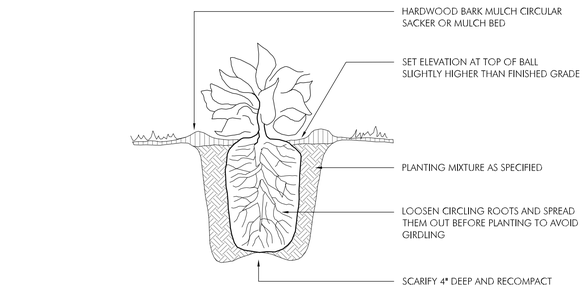
2 Decidious Tree Planting
N.T.S.

THE AMOUNT OF PRUNING SHALL BE LIMITED TO 1/3 OF THE BRANCHES TO COMPENSATE FOR LOSS OF ROOTS FROM TRANSPLANTING. REMOVE DEAD AND INJURED LIMBS. REMOVE BURLAP AND WIRE OR TWINE FROM TOP AND SIDES OF BALL. CENTER SHRUB IN HOLE. SET TOP OF BALL 1-3" ABOVE FINISH GRADE.

NOTES:
1. DO NOT PRUNE SHRUBS DURING INSTALLATION
2. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL, DO NOT DISTURB AREA UNDERNEATH ROOTBALL

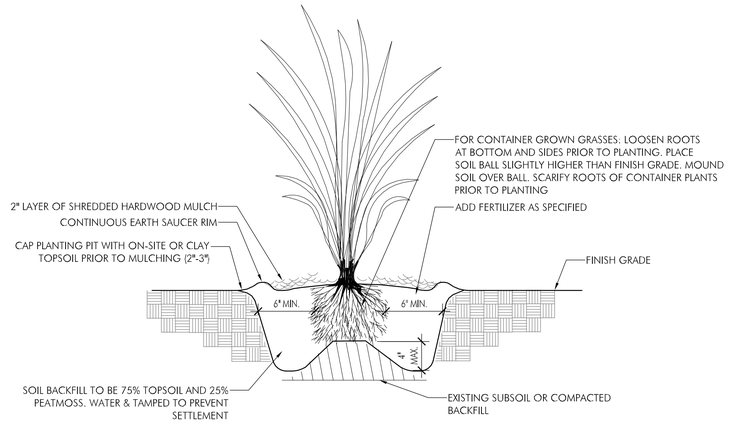


3 Shrub Planting
N.T.S.



NOTE:
SEE PLANTING NOTES FOR MULCH TYPE AND DEPTH, TYP.

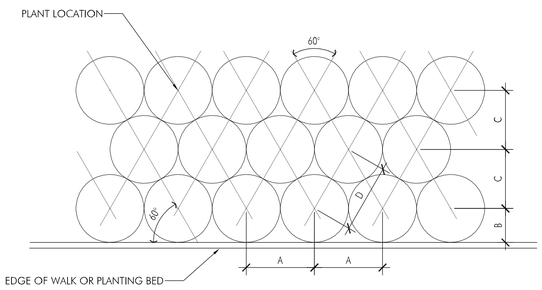
4 Perennial Planting
N.T.S.



5 Ornamental Grass Planting
$1\frac{1}{2}$"=1'-0"

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	9"	15"	18"
24"	24"	10"	20"	24"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

A= SPACING
B= SP/2
C= SP/1.2
D= SPACING



6 Typical Plant Spacing
N.T.S.

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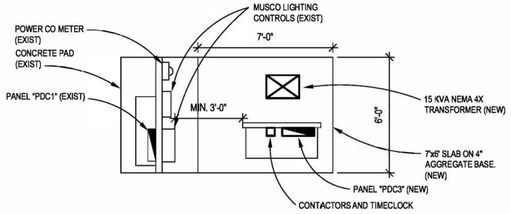
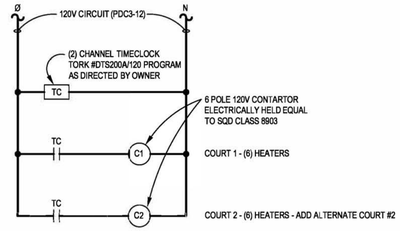
Sheet Title
Planting Details

Sheet #
SD2.0



ENLARGED PLAN

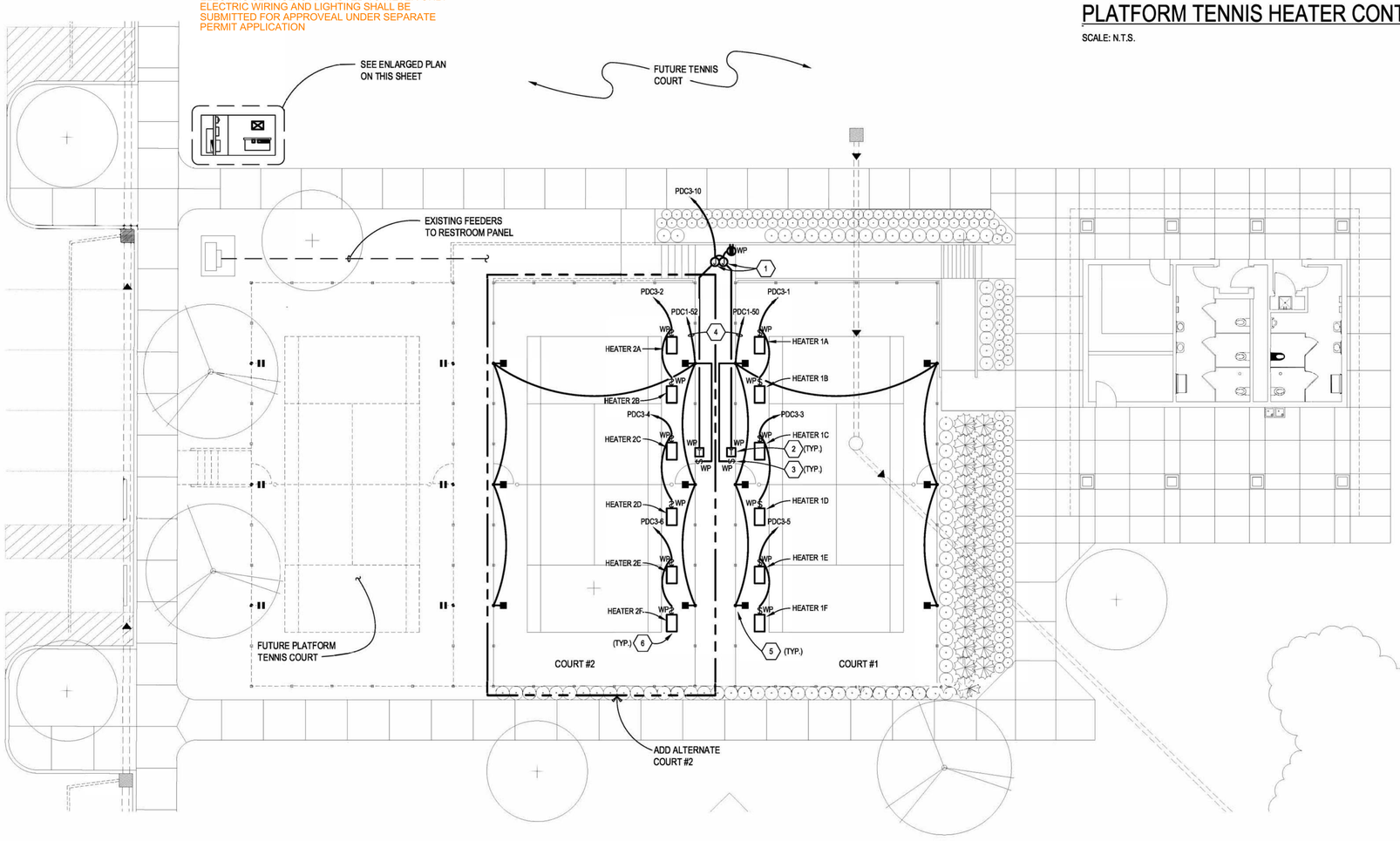
SCALE: 1" = 1/4"



PLATFORM TENNIS HEATER CONTROL

SCALE: N.T.S.

ELECTRIC SERVICE IS APPROVED TO METER ONLY
ELECTRIC WIRING AND LIGHTING SHALL BE SUBMITTED FOR APPROVEAL UNDER SEPARATE PERMIT APPLICATION



ELECTRICAL SITE PLAN

SCALE: 1" = 10'-0"

CODED ELECTRICAL NOTES:

1. MAKE CONNECTION TO (2) SOLENOID VALVES & CONNECT TO TIMERS AS INDICATED & (1) ADDITIONAL SOLENOID TO BE FUTURE.
2. 60 MINUTE TIMER INTERMATIC #FD460MMX, 120V FOR HEATER GAS SOLENOIDS. PROVIDE IN WEATHER-PROOF IN-USE COVER.
3. SWITCH FOR COURT LIGHTS. PROVIDE IN WEATHER-PROOF IN-USE COVER.
4. WIRE THRU EXISTING MUSCO LIGHTING CONTROLS.
5. 300W LED LIGHT, 277V. FURNISHED & INSTALLED BY COURT CONTRACTOR. CONNECT TO WIRE TAILS AT BASES OF POLES. RUN 2 #8 & #10 GRD IN 1" THRU SWITCH, MUSCO TIMECLOCK & PHOTOCELL CONTROLS TO A 20A-1P BREAKER. MAKE ALL FINAL CONNECTION.
6. GAS HEATER, 120V. RUN 2 #8 & #10 GRD IN 1" THRU NEMA 3R DISCONNECTING MEANS THRU TIMECLOCK CONTROLLED CONTACTOR TO A 20A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.

GENERAL ELECTRICAL NOTES:

A. ALL UNDERGROUND CONDUITS SHALL BE 1" MINIMUM.

B. EXISTING SIDEWALKS SHALL NOT BE CUT. ALL CONDUITS SHALL BE PUSHED UNDER SIDEWALKS. PROVIDE (3) SPARE 1" CONDUITS UNDER SIDEWALK.

C. PROVIDE (4) SPARE 1" CONDUITS OUT OF PANEL "PDC3"

T). ELECTRIC CONDUITS SHALL BE LOCATED AS CLOSE TO SIDEWALKS AS IS REASONABLE.

E. ELECTRIC CONDUITS SHALL NOT INTERFERE WITH EXISTING STUBBED FUTURE TENNIS COURT CONDUITS.

F. CALL O.U.P.S. 48 HOURS PRIOR TO DIGGING 8-1-1 OR (800) 362-2764

G. 18" MINIMUM VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN UTILITIES AT ALL UTILITY CROSSINGS.

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Consulting Engineers
2800 Corporate Exchange Dr., Suite 270 Columbus, Ohio 43231
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columbus@pointonedesign.com
9941 York Theta Drive North Royalton, Ohio 44133
440-230-1800 Fax 440-230-1831
cleveland@pointonedesign.com

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Project Name

Coffman Park Platform Tennis
6565 Commerce Pkwy.
Dublin, Ohio 43017

STATE OF OHIO JAMES A. KNOCHEL 70712 REGISTERED PROFESSIONAL ENGINEER

Prepared For

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City of Dublin Parks & Recreation
6555 Shier Rings Road
Dublin, OH 43016

Project Info

Project # 17055
Date 03-20-18
By ND/JK
Scale As Noted

Revisions

Sheet Title

ELECTRICAL SITE PLAN

Sheet #

E1.0

ELECTRICAL SPECIFICATIONS

1. THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND GENERAL REQUIREMENTS ARE A PART OF THIS CONTRACT. BIDS SHALL BE BASED ON A COMPLETE/FULL SET OF DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH WORK PERFORMED BY OTHER TRADES.

2. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL EXISTING ELECTRICAL LOCATIONS, CONDITIONS ETC. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE ELECTRICAL WORK. BEGINNING OF WORK INDICATES ACCEPTANCE OF EXISTING CONDITIONS.

3. FURNISH ALL LABOR, MATERIALS, TESTING, EQUIPMENT, INCIDENTALS AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND AS SUCH APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.

4. ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL ELECTRICAL EQUIPMENT & MATERIALS SHALL BE U.L. LABELED AND LISTED PER NEC 110.3(A)(1).

5. SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, ASSESSMENTS AND INSPECTION CERTIFICATES THAT RELATE TO THE ELECTRICAL CONTRACT. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.

6. THESE ELECTRICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD-VERIFIED AND COORDINATED WITH OTHER PROJECT DRAWINGS.

7. THE ELECTRICAL CONTRACTOR SHALL FURNISH (6) COPIES OF SHOP DRAWINGS, REVIEWED AND STAMPED APPROVED BY THE CONTRACTOR, FOR APPROVAL BY THE ARCHITECT AND ENGINEER, PRIOR TO ORDERING EQUIPMENT SUCH AS DISTRIBUTION EQUIPMENT, AND CONTROLS.

8. CONDUIT SHALL BE STANDARD STEEL RIGID OR PVC (UNDERGROUND). RIGID CONDUIT SHALL UTILIZE THREADED FITTINGS. PVC CONDUIT SHALL BE BELOW GRADE. CONVERT TO RIGID PRIOR TO GOING ABOVE GROUND.

9. MINIMUM SIZES OF CONDUITS SHALL BE 1". ALL CONDUIT AND WIRING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS.

10. WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG, ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. INCREASE CONDUCTOR BY ONE SIZE FOR EVERY 150' INCREMENT OF DISTANCE FROM THE PANEL BOARD FOR 120 VOLT CIRCUITS. GENERAL WIRING SHALL BE THW, THWN, THHN, OR XHHW. ALUMINUM CONDUCTORS ARE NOT PERMITTED.

11. FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM FOR ELECTRICAL EQUIPMENT AND CIRCUITS AS SHOWN ON THE DRAWINGS AND REQUIRED PER N.E.C. ARTICLE 250. ALL GROUNDING CONDUCTORS SHALL BE GREEN, WHERE EXPOSED IN PANEL, OUTLETS, BOXES, ETC.

12. RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5362. ALL DEVICE COVERPLATES SHALL BE PASS AND SEYMOUR OR EQUAL.

13. PROVIDE BRANCH CIRCUIT PANELS WHICH SHALL BE OF THE BOLTED CIRCUIT BREAKER TYPE WITH SOLID BUSSING FULL SIZED NEUTRAL, 25% GROUND BUSSING, OVERALL HINGED/LOCKABLE DOOR, AND TYPEWRITTEN DIRECTORY INSIDE DOOR. LOAD BALANCE ALL ELECTRICAL PHASES AT PANEL. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP TYPE. SQUARE D OR EQUAL BY EATON, CUTLER-HAMMER, OR GENERAL ELECTRIC.

14. STEP-DOWN TRANSFORMER:
A. PROVIDE A DRY-TYPE TRANSFORMER OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWINGS AND WITH COILS DESIGNED FOR 150 DEGREES C. RISE ABOVE A 40 DEGREE C. AMBIENT WITH 100% OF RATED LOAD CONNECTED TO THE SECONDARY, CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. (TWO ABOVE AND FOUR BELOW NORMAL) SOUND LEVEL/DECIBELS SHALL BE IN ACCORDANCE WITH "NEMA" STANDARDS, AND INSTALLATION SHALL INCLUDE KORFOUND OR EQUAL VIBRATION-DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY CONNECTIONS TO MINIMIZE SOUND TRANSMISSION. MOUNT TRANSFORMER ON SEPARATE VIBRATION ISOLATORS. THESE ARE ADDITIONAL VIBRATION ISOLATORS AND ARE USED IN CONJUNCTION WITH ANY INTEGRAL FACTORY INSTALLED VIBRATION ISOLATORS. MANUFACTURED BY SQUARE D, HEAVY DUTY, ACME, GENERAL ELECTRIC OR WESTINGHOUSE.

15. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NONFUSED, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. FUSES AS MANUFACTURED BY BUSSMAN OR EQUAL. DISCONNECT SWITCHES THAT ARE INSTALLED AT HEATERS, ETC SHALL BE FUSED IN ACCORDANCE WITH THE EQUIPMENT'S NAME PLATE REQUIREMENTS PER N.E.C. 440-21 & 110-3B. SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE/QUICK BREAK TYPE, FUSIBLE OR NON-FUSIBLE. LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, EATON, CUTLER HAMMER, OR GENERAL ELECTRIC, WEATHERPROOF WHERE APPLICABLE.

16. PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS, MOTOR CONTROLLERS, AND ANY OTHER EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED. THE LABELS SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION.

17. OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT. JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE. INSTALL BOXES RIGIDLY ON BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALL OUTLET BOXES TO HAVE SUITABLE BLOCKING BEHIND THEM TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.

18. ALL ELECTRIC WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT PIPING OR DUCTWORK. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. ALL CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR OTHER CODE APPROVED RACEWAYS.

19. PANELBOARDS AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES AS TO DESIGNATION AND VOLTAGE.

20. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS APPEARING IN THAT PERIOD SHALL BE CORRECTED AT THE ELECTRICAL CONTRACTOR'S EXPENSE. FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.

21. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

22. PROVIDE O & M MANUALS & AS-BUILT DRAWINGS TO THE OWNER WITH-IN 30 DAYS OF FINAL ACCEPTANCE.

PANEL: PDC1 (EXIST) — VOLTAGE: 277/480 V, 3Ø, 4W
LOCATION: SOUTH LOT COFFMAN PARK — MAINS: 250A MAIN BREAKER
MOUNTING: SURFACE — NOTE:

LOAD DESCRIPTION	VA	CB/P	NO.	PH	NO.	CB/P	VA	LOAD DESCRIPTION
SKATE PARK POLE LT #3 (EXIST)	2100	20/3	1	A	2	20/3	2100	SKATE PARK POLE LT 5 (EXIST)
	2100		3	B	4		2100	
	2100		5	C	6		2100	
SKATE PARK POLE LT #4 (EXIST)	2100	20/3	7	A	8	20/3	2100	SKATE PARK POLE LT 5 (EXIST)
	2100		9	B	10		2100	
	2100		11	C	12		2100	
SPORT LTS (FUTURE)	-	-	13	A	14	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	15	B	16	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	17	C	18	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	19	A	20	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	21	B	22	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	23	C	24	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	25	A	26	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	27	B	28	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	29	C	30	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	31	A	32	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	33	B	34	-	-	SPORT LTS (FUTURE)
SPORT LTS (FUTURE)	-	-	35	C	36	-	-	SPORT LTS (FUTURE)
SURGE SUPPRESSOR (EXIST)	-	30/3	37	A	38	-	-	SPACE
	-		39	B	40	-	-	SPACE
	-		41	C	42	-	-	SPACE
PARK LOT POLE LTS (EXIST)	700	20/1	43	A	44	20/1	-	SPARE
	700		45	B	46	20/1	-	SPARE
TRANSFORMER (EXISTING)	1000	20/1	47	C	48	20/1	-	SPARE
-	-	20/1	49	A	50	20/1*	1800	PLAT TENNIS LTS - COURT 1
LTG CONTROL TIMECLOCK (EXIST)	600	20/1	51	B	52	20/1*	1800	PLAT TENNIS LTS - COURT 2
SPARE	-	20/1	53	C	54	20/1*	-	SPARE
SPACE	-	-	55	A	56		3600	
SPACE	-	-	57	B	58	30/3*	3825	15 KVA TRANSFORMER
SPACE	-	-	59	C	60		3700	

*NEW BREAKER
DEMAND LOAD:
42925 / 830 = 51.7A x 1.25 = 64.6A

CONNECTED LOAD: PHASE A 14500 W; PHASE B 15325 W; PHASE C 13100 W
TOTAL CONNECTED LOAD: 42925 W

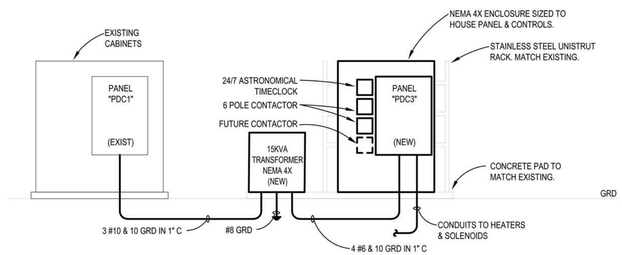
PANEL: "PDC3" (NEW) — VOLTAGE: 120/208V, 3Ø, 4W
LOCATION: SITE — MAINS: 60A-3P MAIN BREAKER
MOUNTING: SURFACE — NOTE:

LOAD DESCRIPTION	VA	CB/P	NO.	PH	NO.	CB/P	VA	LOAD DESCRIPTION
HEATER 1A & 1B	1800	20/1	1	A	2	20/1	1800	HEATER 2A & 2B
HEATER 1C & 1D	1800	20/1	3	B	4	20/1	1800	HEATER 2C & 2D
HEATER 1E & 1F	1800	20/1	5	C	6	20/1	1800	HEATER 2E & 2F
SPACE	-	-	7	A	8	-	-	SPACE
HEATER 3A & 3B	-	20/1	9	B	10	20/1	225	GAS SOLENOIDS & RECEPT
HEATER 3C & 3D	-	20/1	11	C	12	20/1	100	TIME CLOCK
HEATER 3E & 3F	-	20/1	13	A	14	20/1	-	SPARE
SPACE	-	-	15	B	16	20/1	-	SPARE
SPACE	-	-	17	C	18	20/1	-	SPARE

ADD ALTERNATE COURT #2

DEMAND LOAD:
11125 / 360 = 30.9 x 1.25 = 38.6A

CONNECTED LOAD: PHASE A 3600 W; PHASE B 3825 W; PHASE C 3700 W
TOTAL CONNECTED LOAD: 11125 W



PLATFORM TENNIS HEATER CONTROL DIAGRAM
NTS

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Project Name
Coffman Park Platform Tennis
6565 Commerce Pkwy.
Dublin, Ohio 43017

STATE OF OHIO — JAMES A. KNOCHEL — 70712 — REGISTERED PROFESSIONAL ENGINEER

Prepared For
Mr. Matt Earman, Director
City of Dublin Parks & Recreation
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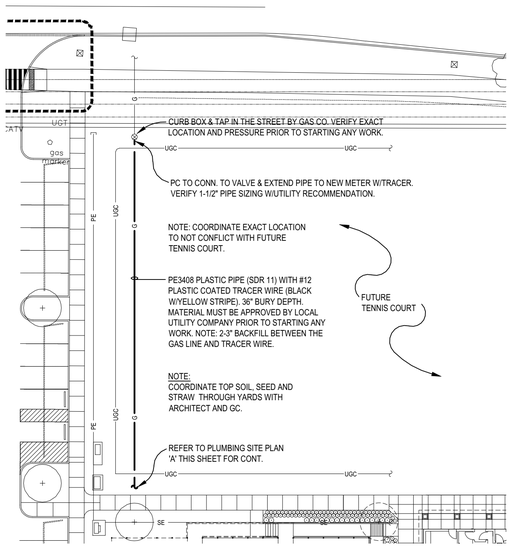
Project Info
Project # 17055
Date 03-20-18
By ND/JK
Scale As Noted

Revisions

Sheet Title
ELECTRICAL PANELS & SPECIFICATIONS

Sheet #
E2.0



PLUMBING SITE PLAN 'B'

SCALE: 1" = 30'-0"

GENERAL PLUMBING NOTES:

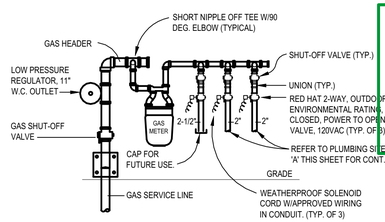
1. THE LOCATIONS OF PIPING AND EQUIPMENT AS SHOWN ON THE DRAWING ARE GENERAL ONLY. THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL PIPING AND EQUIPMENT IN THE FIELD PRIOR TO EXECUTING HIS WORK.
2. PLUMBING CONTRACTOR SHALL COORDINATE EXACT LOCATION OF GAS SERVICE PRIOR TO STARTING ANY WORK.
3. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES (ELECTRICAL, ETC.).
4. EXISTING SIDEWALKS SHALL NOT BE CUT. ALL PIPING UNDER SHALL BE PUSHED UNDER SIDEWALKS.
5. 18" MINIMUM VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN UTILITIES AT ALL UTILITY CROSSINGS.

GENERAL NOTE:

ANY PRIVATE UTILITY WORK (GAS, ELECTRIC, TELECOMMUNICATIONS,ETC) PROPOSED WITHIN THE RIGHT AWAY AND/OR PUBLIC EASEMENTS WILL REQUIRE SEPARATE RIGHT OF WAY PERMITS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
G	GAS PIPING-LOW PRESSURE
MG	GAS PIPING-MEDIUM PRESSURE
HG	GAS PIPING-HIGH PRESSURE
	CAP ON END OF PIPE
	SHUT-OFF VALVE
	SHUT-OFF VALVE IN RISER
	GAS SHUT-OFF VALVE
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	TEE
	ELBOW
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
PE	PRIMARY ELECTRIC
SE	SECONDARY ELECTRIC
UGC	UNDERGROUND CONDUIT



GAS METER PIPING DIAGRAM

NO SCALE

GAS DEMAND

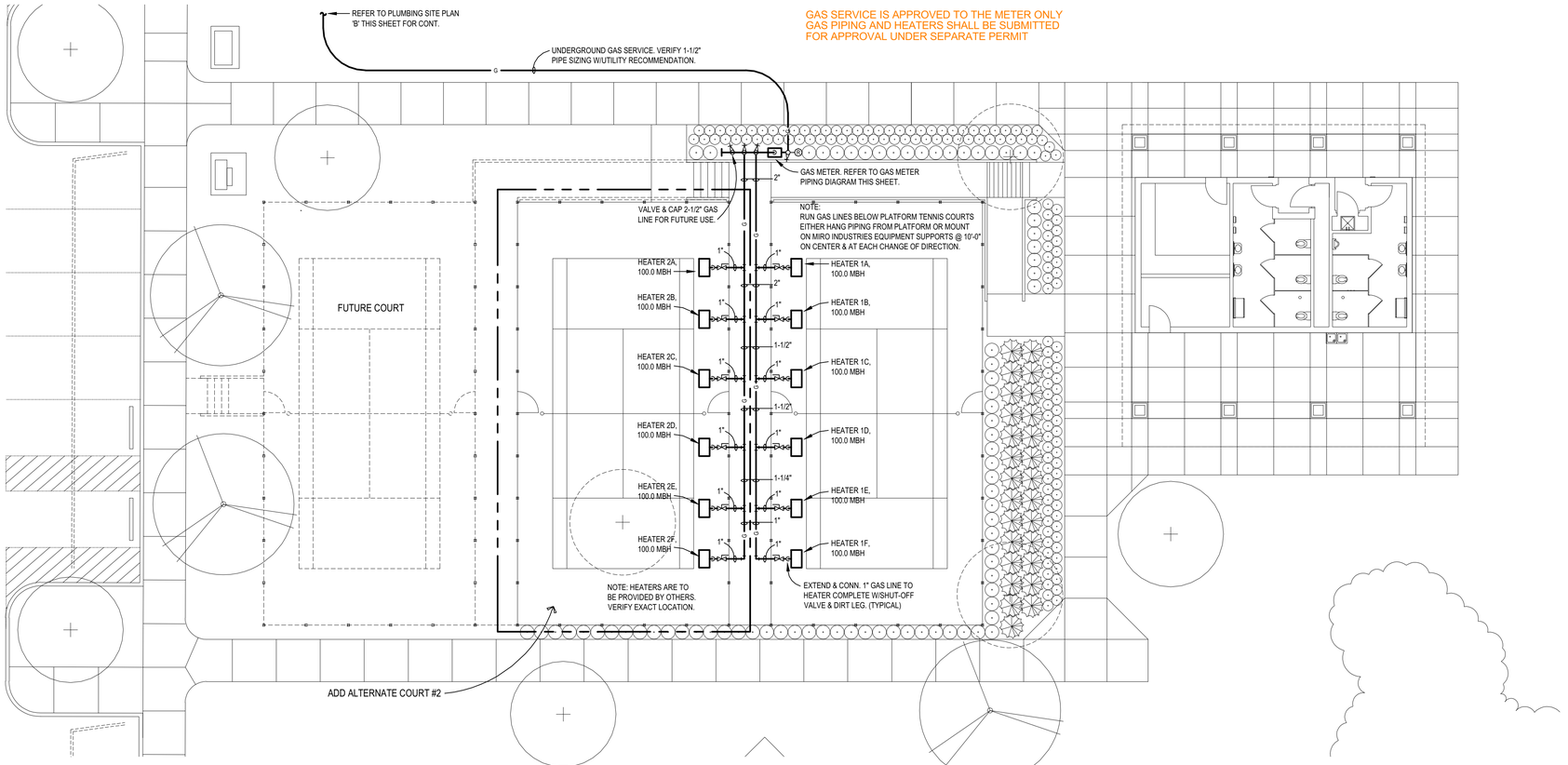
HEATER 1A	100.0 CFH
HEATER 1B	100.0 CFH
HEATER 1C	100.0 CFH
HEATER 1D	100.0 CFH
HEATER 1E	100.0 CFH
HEATER 1F	100.0 CFH
HEATER 2A, ADD ALT. COURT #2	100.0 CFH
HEATER 2B, ADD ALT. COURT #2	100.0 CFH
HEATER 2C, ADD ALT. COURT #2	100.0 CFH
HEATER 2D, ADD ALT. COURT #2	100.0 CFH
HEATER 2E, ADD ALT. COURT #2	100.0 CFH
HEATER 2F, ADD ALT. COURT #2	100.0 CFH
HEATER 3A, FUTURE	100.0 CFH
HEATER 3B FUTURE	100.0 CFH
HEATER 3C, FUTURE	100.0 CFH
HEATER 3D, FUTURE	100.0 CFH
HEATER 3E, FUTURE	100.0 CFH
HEATER 3F, FUTURE	100.0 CFH
TOTAL GAS DEMAND	1,800 CFH

NOTES:
1. GAS PRESSURE AFTER METER IS 11" WC.
2. GAS PIPE SIZES ARE BASED ON THE 2012 INTERNATIONAL FUEL GAS CODE: TABLE 402.4(2) SCHEDULE 40 METALLIC PIPE; INLET PRESSURE OF LESS THAN 2 PSI; PRESSURE DROP OF 0.5" W.C. AND 150 FEET (TOTAL LENGTH OF PIPE).

GAS PIPING NOTES:

1. PLUMBING CONTRACTOR TO NOTIFY THE AUTHORITY HAVING JURISDICTION WHEN THE INSTALLATION IS READY FOR INSPECTION (AT ROUGH-IN PRIOR TO COVERING AND FINAL).
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL MANUAL SHUT-OFF VALVE, DRIPS AND/OR SEDIMENT TRAPS AT EACH PIECE OF EQUIPMENT AND AT THE OUTLET OF THE METER. VALVES AND DRIPS SHALL BE READILY ACCESSIBLE TO PERMIT CLEANING, EMPTYING OR SERVICING.
3. GAS PIPING IS SIZED WITH LONGEST LENGTH METHOD AND BASED ON THE INTERNATIONAL FUEL GAS CODE; SCHEDULE 40 METALLIC PIPE TABLE 402.4(2).
4. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE TESTING AND INSPECTION PRIOR TO ACCEPTANCE, PER NFPA 54. TEST PRESSURE SHALL BE NO LESS THAN 1-1/2 TIMES THE MAXIMUM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. TEST SHALL BE NOT LESS THAN 1/2 HOUR PER 500 CF OF PIPE VOLUME.
5. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS FOR 2" AND SMALL AND WELDED FOR 2-1/2" AND ABOVE. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURICK MODEL S-425 FOR 2" AND LESS AND MODEL F-425 FOR 2-1/2" AND LARGER. NOTE: WELDED PIPE TO BE WITH APPROVED WELD-O-LET FITTINGS.
6. ALL NEW EXTERIOR GAS PIPING IS TO BE PRIMED AND PAINTED WITH TWO (2) COATS OF RUST RESISTANT PAINT, COLOR AS SELECTED BY ARCHITECT AS REQUIRED BY SECTION 404 OF THE INTERNATIONAL FUEL GAS CODE.
7. GAS PIPING SHALL FOR INSTALLED AS CLOSE TO SIDEWALKS AS IS REASONABLE AND SHALL NOT INTERFERE WITH EXISTING STUBBED FUTURE TENNIS COURTS LIGHTING CONDUITS.

GAS SERVICE IS APPROVED TO THE METER ONLY
GAS PIPING AND HEATERS SHALL BE SUBMITTED FOR APPROVAL UNDER SEPARATE PERMIT



PLUMBING SITE PLAN 'A'

SCALE: 1" = 10'-0"

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Project Name

Coffman Park Platform Tennis

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Dublin, Ohio 43017

STATE OF OHIO
KEVIN K. HERBERT
E-53288
REGISTERED PROFESSIONAL ENGINEER

Prepared For

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Project Info

Project #	17055
Date	03-20-18
By	ND/JK
Scale	As Noted

Revisions

Sheet Title

PLUMBING SITE PLAN

Sheet #

P1.0

GENERAL

A. CONTRACTOR ALSO REFERRED TO ALL ARCHITECTURAL, ELECTRICAL AND OTHER LANDLORD DRAWINGS PERTAINING TO PROJECT. ALL OF ABOVE MENTIONED DRAWINGS, AS WELL AS THEIR RESPECTIVE SPECIFICATIONS, ARE A PART OF CONTRACT DOCUMENTS.

B. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER, FURNISH ANY MATERIAL OR LABOR CALLED FOR IN ONE EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH.

C. INSTALL AND CONNECT EQUIPMENT, SERVICES AND MATERIALS IN ACCORDANCE WITH BEST ENGINEERING PRACTICE AND ACCORDANCE WITH VARIOUS MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL COMPLETE AUXILIARY PIPING, VALVES, WATER SEALS, ELECTRICAL CONNECTIONS, ETC., RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION.

D. FURNISH MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS BUT WHICH IS OBVIOUSLY A COMPONENT PART OF AND NECESSARY TO COMPLETE WORK OF SIMILAR CHARACTER.

E. THIS CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES AND/OR LANDLORD FEES, BACK CHARGES, ETC., REQUIRED TO CARRY OUT THIS WORK. HE SHALL PAY FOR ALL CHARGES MADE BY INSPECTION. NOTE: ALL CONTRACTORS SHALL BE LICENSED IN THE STATE, CITY, ETC. & APPROVED BY LANDLORD TO PERFORM ALL NEW WORK.

F. THIS CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, ALL LOCAL LEGAL REQUIREMENTS, AND MALL REQUIREMENTS. ALL LAWS, RULES AND REGULATIONS OF STATE AND LOCAL GOVERNING AGENCIES SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS AS FULLY AS IF WRITTEN HEREIN. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY CHANGES NECESSARY FOR CODE COMPLIANCE REGARDLESS OF THE METHOD OF INSTALLATION SHOWN ON THE DRAWINGS OR SPECIFIED.

G. WHEN WORK IS COMPLETED, THIS CONTRACTOR SHALL FURNISH TO THE GENERAL CONTRACTOR CERTIFICATES OF APPROVAL FROM THE RESPONSIBLE INSPECTION AGENCIES.

H. TESTING OF ALL WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR. ALL APPARATUS, EQUIPMENT, FIXTURES, ETC., SHALL FULLY MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND DRAWINGS.

I. THE BID SHALL CONTEMPLATE THE FURNISHING AND INSTALLING OF MATERIAL AND EQUIPMENT, EXACTLY AS SPECIFIED OR SHOWN AS SIMILAR BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SUBMITTING ON SIMILAR EQUIPMENT WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CHANGES IN ARCHITECTURAL, STRUCTURAL, MECHANICAL AND/OR ELECTRICAL TRADES DUE TO THE SIMILAR EQUIPMENT CHARACTERISTICS SUBMITTED. NOTE: OTHER MANUFACTURERS MAY BE SUBSTITUTED IF EQUAL IN PHYSICAL & PERFORMANCE CHARACTERISTICS, AND APPROVED BY THE OWNER'S REPRESENTATIVE UNLESS OTHERWISE NOTED.

J. CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

K. ALL POWER WIRING OF MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. FURNISH THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL ELECTRICALLY POWERED EQUIPMENT PROVIDED WITH THE CONTRACT WHICH SHALL INDICATE THE SERVICE REQUIRED AND ELECTRIC LOAD INVOLVED.

L. THIS CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS, AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THIS CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING AND SEWERS BEFORE STARTING WORK.

M. SUBMIT CERTIFIED SHOP DRAWINGS (COMPLETE WITH CONTRACTOR STAMP OF REVIEW & APPROVAL), CATALOG SHEETS FOR EQUIPMENT, FIXTURES, DUCTWORK LAYOUT AND WIRING DIAGRAMS, ETC., IN EACH PDF STAMPED BY CONTRACTOR AND SENT TO THE ARCHITECT FOR REVIEW. EACH CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE APPROVED SHOP DRAWINGS TO ALL OTHER TRADES AFFECTED BY HIS WORK, EQUIPMENT, ETC., FOR COORDINATION.

N. ASSEMBLE AND SUBMIT TO THE ARCHITECT FOR SUBSEQUENT SUBMISSION TO THE OWNER, THREE (3) COMPLETE SETS OF OPERATIONS MANUALS AND MAINTENANCE REQUIREMENTS, COPY OF APPROVED SHOP DRAWINGS OF FIXTURE CUTS WITH MANUFACTURER'S NAME AND MODEL NUMBER, EQUIPMENT GUARANTEES & WARRANTIES, ETC., FOR EACH ITEM FURNISHED. AS BUILT DRAWINGS & SPECIFICATIONS, AFFIDAVIT OF WAIVER OF LIEN, OPERATING INSTRUCTIONS & SERVICE MANUALS, CERTIFICATE OF HVAC INSPECTION, SPARE PARTS GUARANTEES BEYOND ONE YEAR OF SERVICES, ETC...

O. ALL CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (GENERAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, ETC...) AFFECTED BY THAT PIECE OF EQUIPMENT (WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC...) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION. NO EXTRA COMPENSATION WILL BE APPROVED IF COORDINATION IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.

P. DRAWING & SPECIFICATIONS – MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS. ALL DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DRAWINGS & FROM THE STRUCTURE ITSELF BEFORE PERFORMING ANY WORK.

Q. CUTTING, PATCHING & FLASHING – THE HVAC & PLUMBING CONTRACTORS SHALL PERFORM ALL NECESSARY CUTTING, SUBSEQUENT PATCHING & REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR THIS PART OF THE CONTRACT TO THE SATISFACTION OF THE OWNER. CONTRACTOR TO COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR.

R. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE LETTING OF THE CONTRACT. AFTER LETTING OF THE CONTRACT, THE CONTRACTOR AT HIS OWN EXPENSE, SHALL RECTIFY THE DISCREPANCY AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

PLUMBING SPECIFICATIONS

A. CONNECT GAS LINES AS INDICATED ON THE PLUMBING PLANS. DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICE CONNECTIONS BEFORE STARTING THE INSTALLATION OF ANY WORK. COORDINATE ALL WORK WITH OTHER TRADES, THE GENERAL CONTRACTOR AND THE OWNER'S FIELD REPRESENTATIVE.

B. PLUMBING WORK SHALL CONFORM TO GOOD ENGINEERING PRACTICE AND BE IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES AND OWNER'S REQUIREMENTS. PLUMBING CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.

C. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL PER ASTM A53, GRADE 'B', EWR PIPE WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS FOR 2–1/2" PIPE AND LESS AND WELDED FOR 3" PIPE AND ABOVE. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURICK MODEL S–425 FOR 2–1/2" AND LESS, WITH DEZURICK MODEL F–425 FOR 3" AND LARGER.

D. PLUMBING CONTRACTOR SHALL PROVIDE 1 SET OF 'AS–BUILT' DRAWINGS TO THE OWNER.

E. LABOR SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADE. PIPE AND EQUIPMENT SHALL BE INSTALLED SQUARE AND PLUMB AND ACCESSIBLE FOR PROPER OPERATION AND SERVICE.

F. PROVIDE ANY NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED AND WELL TAMPED TO GRADE WITH APPROVED MATERIAL. BACKFILL MATERIAL TO BE PEA GRAVEL OR BANK RUN SAND.

G. CLEAN OUT ALL LINES, ADJUST ALL VALVES AND CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT. ALL PLUMBING FIXTURES SHALL BE SEALED AT FLOOR AND/OR WALL WITH CLEAR SILICONE CAULK.

H. AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED AND APPROVED, THE PIPING SYSTEM SHALL BE FLUSHED TO REMOVE ANY FOREIGN MATTER FROM THE PIPES.

I. ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE GUARANTEE PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.

J. GENERAL REQUIREMENTS OF PLUMBING FIXTURES AND TRIM:

1. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL STOPS, TRAPS, ESCUTCHEONS, CONNECTIONS, ETC., AS NECESSARY FOR A COMPLETE INSTALLATION.
2. TERMINATE ALL ROUGH–INS WITH SHUT–OFF VALVES BEFORE CONNECTING EQUIPMENT.
3. PURGE ALL LINES BEFORE MAKING FINAL CONNECTIONS.
4. WHERE THE WORD "FURNISH" OR "INSTALL" APPEARS FOR THE PLUMBING CONTRACT, IT SHALL BE INTERPRETED TO MEAN THE PLUMBING CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SUPPLIES NECESSARY TO INSTALL AND PLACE IN OPERATION CONDITION.
5. INSTALL OWNER FURNISHED ITEMS PER INSTALLATION AND OPERATION MANUAL.

K. PIPE MARKERS – W.H. BRADY OR EQUAL. MATCH EXISTING MARKERS ON JOB. COLOR AND LETTERING CONFORM TO ASME A13.1.

L. PAINT EXTERIOR NATURAL GAS PIPING WITH (1) COAT PRIMER AND (2) FINISH COATS OF RUSTOLEUM (OR EQUAL). YELLOW COLOR.

M. TEST ALL NEW PIPING WORK PER CODE.

N. SUPPORTING DEVICES

1. PROVIDE INSERTS, HANGERS, ANCHORS, GUIDES AND SUPPORTS AS REQUIRED TO PROPERLY SUPPORT AND RETAIN PIPING, DUCTWORK AND CONDUITS TO CONTROL EXPANSION, CONTRACTION, ANCHORAGE, DRAINAGE AND PREVENT SWAY AND VIBRATION. PIPING SHALL BE SUPPORTED SO AS NOT TO PLACE A STRAIN ON VALVES OR EQUIPMENT.

2. PROVIDE SUPPLEMENTARY ANGLES, CHANNELS, PLATES, PLATFORMS, ETC., WHERE SUPPORTS ARE REQUIRED BETWEEN BUILDING STRUCTURAL MEMBERS, SPAN THE SPACE AND ATTACH TO THE BUILDING STRUCTURAL MEMBERS BY WELDING, BOLTING, OR WITH CONCRETE ANCHORS.

3. SUPPORT INDIVIDUAL PIPING FROM HANGERS AS MANUFACTURED BY GRINNELL, MODERN, FEE AND MASON, OR UNISTRUT.

4. HANGER SPACING:

PIPE SIZE	MAXIMUM SPACING	MINIMUM ROD
UP TO 1"	5'	3/8"
1–1/4"	8'	3/8"
1–1/2", 2"	10'	3/8"
2–1/2", 3"	12'	1/2"
4", 5"	14'	5/8"

PROVIDE ADDITIONAL HANGER SUPPORT WITHIN TWO FEET OF EACH ELBOW AND AT VALVES, STRAINERS AND OTHER EQUIPMENT IN PIPE LINES.

5. DO NOT SUSPEND A PIPE FROM ANOTHER PIPE.

PLUMBING GENERAL NOTES

ALL PIPING, CLAMPS, SUPPORTS, ETC., SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK OR DUCTWORK ABOVE.

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Approved for Construction
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04/30/18

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Project Name

Coffman Park Platform Tennis

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Dublin, Ohio 43017

STATE OF OHIO
KEVIN K. HERBERT
E–53288
REGISTERED PROFESSIONAL ENGINEER

Prepared For

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Project Info

Project #	17055
Date	03-20-18
By	ND/JK
Scale	As Noted

Revisions

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Sheet Title

PLUMBING SPECIFICATIONS

Sheet #

P2.0