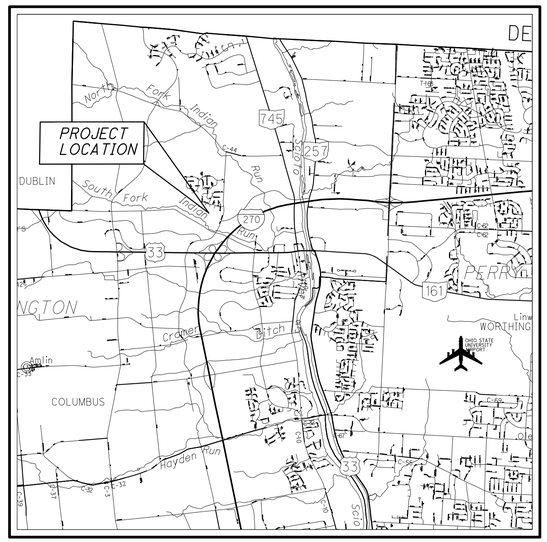

LOCATION MAP

LATITUDE: 40°06'28" LONGITUDE: 83°08'19"

SCALE IN MILES

0 1 2 3 4

N

INTERSTATE HIGHWAY ———

FEDERAL ROUTES ———

STATE ROUTES ———

COUNTY & TOWNSHIP ROADS ———

OTHER ROADS ———

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PRIVATE SITE IMPROVEMENTS PLAN
FOR
DUBLIN COMMUNITY RECREATION CENTER —MOBILITY HUB

5600 POST ROAD

PROJECT DESCRIPTION

CONSTRUCT A MOBILITY HUB CONSISTING OF A PEDESTRIAN CANOPY SHELTER, BIKE STORAGE SHELTER, AND PEDESTRIAN AMENITIES. WORK TO INCLUDE THE REMOVAL OF EXISTING PAVEMENT, CURB, SIDEWALK, AND OTHER CONCRETE SURFACES TO INSTALL SHELTERS WITH CONCRETE PADS, SIDEWALKS, PAVEMENT, CURB, CURB RAMP, UNDERGROUND CONDUITS, WIRING AND CONNECTIONS FOR ELECTRICAL AND COMMUNICATION CONNECTIVITY TO THE EXISTING RECREATION CENTER SYSTEMS.

PROJECT EARTH DISTURBED AREA:	*0.06 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.06 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*0.06 ACRES*

INDEX OF SHEETS:

TITLE SHEET	*1*
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PARCEL INFORMATION	*3*
GENERAL NOTES	*4 - 5*
EXISTING SITE PLAN	*6*
EROSION AND SEDIMENT CONTROL PLAN	*7*
MAINTENANCE OF TRAFFIC PLAN	*8*
DEMOLITION PLAN	*9*
PROPOSED SITE PLAN	*10*
GRADING AND DRAINAGE PLAN	*11*
UTILITY PLAN	*12*
PHOTOMETRIC PLAN	*13*
LANDSCAPE PLAN AND DETAILS	*14*
ELEVATIONS AND SIGNAGE	*15 - 16*
SITE AMENITY DETAILS	*17 - 20*

PLANNING COMMISSION SUBMITTAL
1/31/2022
NOT FOR CONSTRUCTION

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

APPROVED:

_____ _____

DIRECTOR OF ENGINEERING/CITY ENGINEER *DATE*
CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

_____ _____

**DIRECTOR OF PLANNING* *DATE*
**CITY OF DUBLIN, OHIO*
JENNIFER RAUCH, AICP

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

HDR

HDR ENGINEERING, INC.
2800 CORPORATE EXCHANGE DR., SUITE 100
COLUMBUS, OHIO 43231
614-839-5770

ENGINEERS SEAL	*CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS*		*CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS*		*ODOT STANDARD CONSTRUCTION DRAWINGS*		***SUPPLEMENTAL SPECIFICATIONS***
	PD-02						
	PD-03						
	PD-10						
	RD-11						

SIGNED: _____

DATE: _____

CITY OF DUBLIN
PROJECT NUMBER 22-014-CIP

FEDERAL PROJECT NO.

PID NO.

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

22-014-CIP

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HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED MTH
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SITE LOCATION PLAN
DUBLIN COMMUNITY RECREATION CENTER
22-014-CIP

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20

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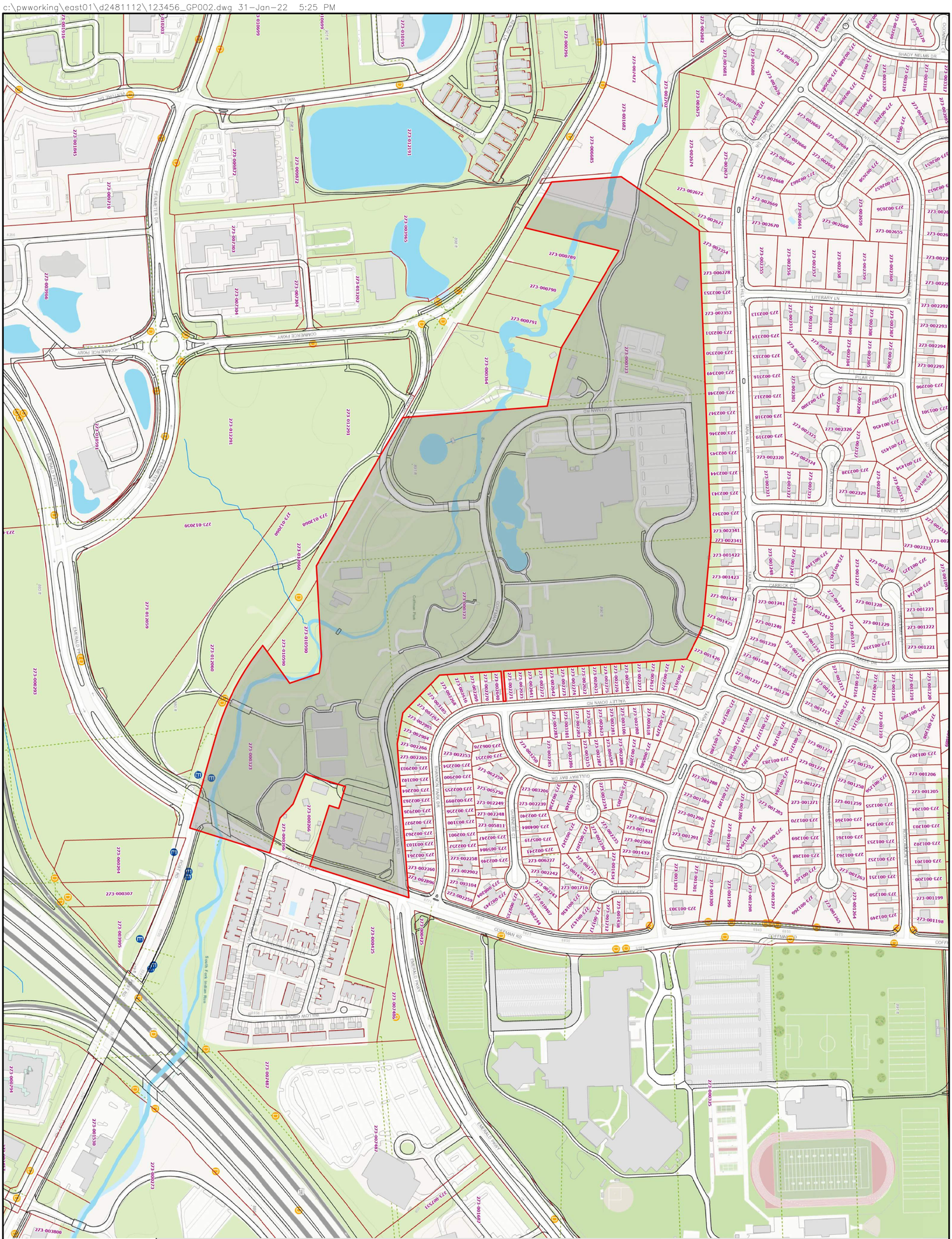

Franklin County Auditor's Office

Auditor Michael Stinziano

Map Produced January 21, 2022

This data on this map was originally compiled at a scale of 1:1200 using the Ohio State Plane Coordinate System, North American Datum 1983 (2011) with Z (elevation based on the North American Vertical Datum 1988 (when displayed)).

This map is a graphical representation of information contained in various tax maps, surveys, plats, and other public records and data. Users should not rely on data contained herein for any purpose requiring exact measurement of distance, direction, area or precision. Information sources should be considered for verification of the information contained on this map. The county assumes no responsibility for the information contained on this map. Please notify the Franklin County Auditor's GIS Department of any incorrect data.

Planimetric Legend
Source: 2018 Photography
Edge of Pavement
Railroad Centerlines
Roadway Centerlines
Building Footprints
Building Under Construction
Creeks, Streams, Ditches
Rivers & Ponds

Topographic Legend
Source: OSIP - 2015 LiDAR Collection
Spot Elevation
Index Contour
Intermediate Contour

Appraisal Legend
Source: Franklin County Auditor & Engineer
Parcel IDs
Parcel Dimensions
Lot Numbers
123 Main St Site Address
Parcel Boundary
Subdivision Boundary
Condominium Boundary
County Boundary
City or Village Boundary
Tax District Boundary
School District Boundary
Zip Code Boundary

22 3	22-014-CIP	PARCEL INFORMATION DUBLIN COMMUNITY RECREATION CENTER	CALCULATED MTH CHECKED PHF	0 90 180 360 HORIZONTAL SCALE IN FEET

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
    6555 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 1441Dr. 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.

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 8 inches to 10 inches shall be 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 12 inches to 30 inches shall be PVC sewer pipe, ASTM D3034, SDR 35 or SaniTite HP pipe, ASTM F2736. Sanitary sewer pipes with diameters 30 inches to 60 inches shall be PVC sewer pipe, ASTM D3034, SDR 35 or SaniTite HP pipe, ASTM F2764.

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.

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.

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GENERAL NOTES
DUBLIN COMMUNITY RECREATION CENTER
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SANITARY SEWERS (CONT.)

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 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 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: 7/32DUMP NO WASTE; DRAINS TO RIVER.9/32

6. 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.

7. HP Storm and HP SaniTite or approved equal are approved alternatives to reinforced concrete pipe in paved and non paved areas as approved by the City Engineer. This includes applications inside the right-of-way.

8. HP Storm and HP SaniTite or approved equal pipe joints shall be watertight according to requirements of ASTM D3212. Pipes shall be joined with a gasketed integral bell & spigot joint meeting the requirements of ASTM F2881 (HP Storm) and ASTM F2764 (HP SaniTite). Gaskets shall be installed by pipe manufacturer and covered with removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during joint assembly.

9. All bedding material shall be in accordance with City of Columbus standard construction drawing AA-S149.

10. Backfill material shall be placed in accordance with Item 911 or Item 912 of the City of Columbus Construction Material Specifications (CMS).

11. Backfill material in areas located outside the public right-of-way shall be placed in accordance with Item 901 of the City of Columbus (CMS).

12. All HP Storm and HP SaniTite pipe (for storm sewer) shall be mandrel tested in accordance with City of Columbus Item 901.21, with the exception that the waiting period prior to testing shall be 30 days.

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.

CALCULATED MTH CHECKED PHF

GENERAL NOTES
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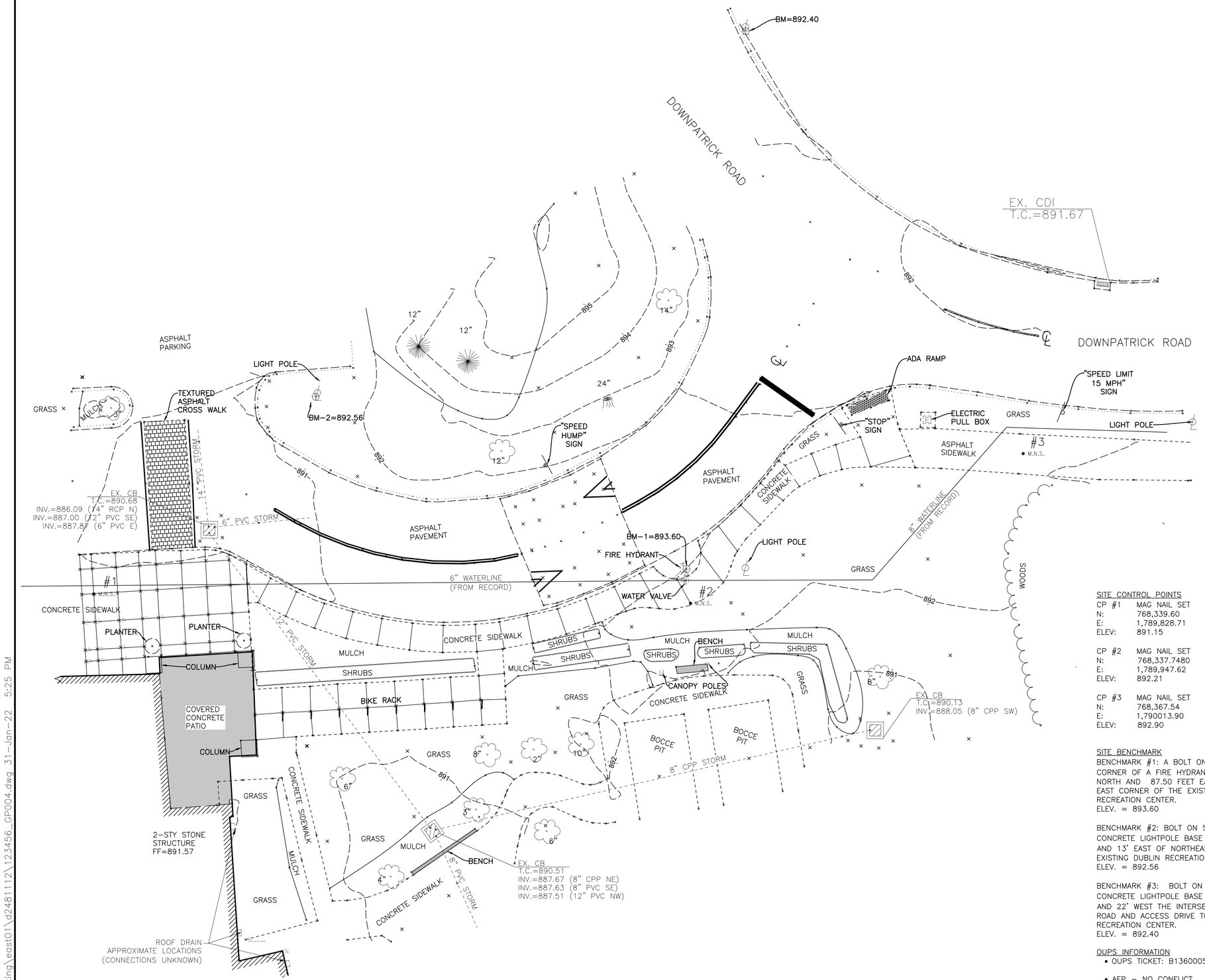

EXISTING SYMBOLS

- FIRE HYDRANT
- WATER VALVE
- WATER REDUCER
- SANITARY MANHOLE
- COMBINATION MANHOLE
- SANITARY STRUCTURE NUMBER
- STORM MANHOLE
- GRATED STM MANHOLE
- CURB INLET MANHOLE
- CURB & GUTTER INLET
- CATCH BASIN
- STORM STRUCTURE NUMBER
- GAS VALVE
- GAS METER
- PULLBOX
- TRAFFIC PULL BOX
- SIGNAL CONTROLLER
- RAILROAD TRACKS
- VARIOUS UTILITY BOX
- UTILITY POLE
- LIGHT POLE
- SIGNAL POLE
- SIGNAL PEDESTAL SUPPORT
- MAILBOX
- SIGNS
- SOIL BORING
- GUY ANCHOR
- PARKING METER
- DOUBLE PARKING METER
- I.P.F. IRON PIN FOUND
- P.F. IRON PIPE FOUND
- M.N.F MAG NAIL FOUND
- MONUMENT BOX FOUND
- RAILROAD SPIKE FOUND
- STUMP
- BUSH
- CENTERLINE
- TREES
- HEDGE/SHRUB
- BUILDING
- TREE REMOVED
- Ex XX" Tree (TBR)

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MTH
CHECKED PHF

SITE CONTROL POINTS

CP #1 MAG NAIL SET
N: 768,339.60
E: 1,789,828.71
ELEV: 891.15

CP #2 MAG NAIL SET
N: 768,337.7480
E: 1,789,947.62
ELEV: 892.21

CP #3 MAG NAIL SET
N: 768,367.54
E: 1,790013.90
ELEV: 892.90

SITE BENCHMARK

BENCHMARK #1: A BOLT ON THE SOUTH EAST CORNER OF A FIRE HYDRANT LOCATED 8.2' NORTH AND 87.50 FEET EAST OF THE NORTH EAST CORNER OF THE EXISTING DUBLIN RECREATION CENTER.
ELEV. = 893.60

BENCHMARK #2: BOLT ON SE CORNER OF CONCRETE LIGHTPOLE BASE LOCATE 50' NORTH AND 13' EAST OF NORTHEAST CORNER OF EXISTING DUBLIN RECREATION CENTER.
ELEV. = 892.56

BENCHMARK #3: BOLT ON SE CORNER OF CONCRETE LIGHTPOLE BASE LOCATE 46' NORTH AND 22' WEST THE INTERSECTION DOWNPATRICK ROAD AND ACCESS DRIVE TO EXISTING DUBLIN RECREATION CENTER.
ELEV. = 892.40

OUPS INFORMATION

- OUPS TICKET: B136000516-00B
- AEP – NO CONFLICT
- AT&T – NO CONFLICT
- CHARTER – TIME WARNER – NO CONFLICT
- DUBLIN STORM SEWER – POTENTIAL ROOF DRAIN CONFLICT

HORIZONTAL DATUM

THE HORIZONTAL CONTROL IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), OHIO SOUTH ZONE, 2011 ADJUSTMENT, REFERENCING THE OHIO DEPARTMENT OF TRANSPORTATION VRS NETWORK, AS DETERMINED BY A GLOBAL POSITIONING SURVEY PERFORMED BY DYNOTEC, INC. IN DECEMBER OF 2021.

VERTICAL DATUM

THE VERTICAL CONTROL IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88) REFERENCING AN ELEVATION OF 892.74 ON AN ALUMINUM PLUG IN THE WEST SIDE OF A CONCRETE FOUNDATION FOR A TRAFFIC SIGNAL POLE AT THE NORTH EAST CORNER OF THE INTERSECTION OF TARA HILL DRIVE AND COFFMAN ROAD, JUST NORTH OF AN EXIT DRIVE FROM DUBLIN COFFMAN HIGH SCHOOL, 46 FEET EAST OF THE CENTERLINE OF COFFMAN ROAD AND 62 FEET NORTH OF THE CENTER MEDIAN OF THE DUBLIN COFFMAN HIGH SCHOOL EXIT DRIVE.
AS SHOWN ON FRANKLIN COUNTY SURVEY CONTROL INFORMATION, FRANKLIN COUNTY ENGINEER. MONUMENT DESIGNATION "HI-41" DATE SET 2012.

EXISTING SITE PLAN
DUBLIN COMMUNITY RECREATION CENTER
22-014-CIP

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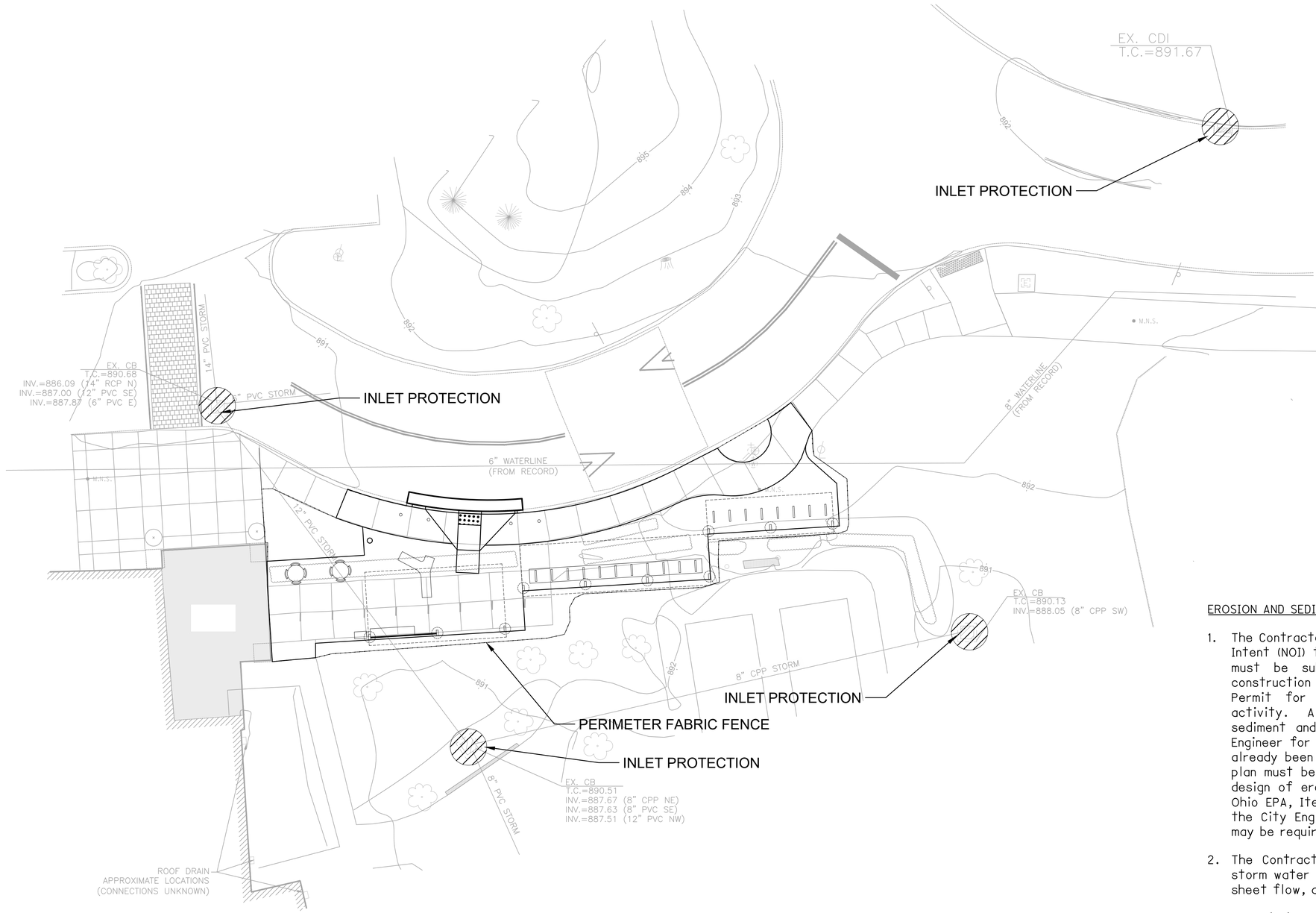

EROSION AND SEDIMENT CONTROL NOTES

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 City of Columbus 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.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MTH
CHECKED PHF

EROSION AND SEDIMENT CONTROL PLAN
DUBLIN COMMUNITY RECREATION CENTER

22-014-CIP

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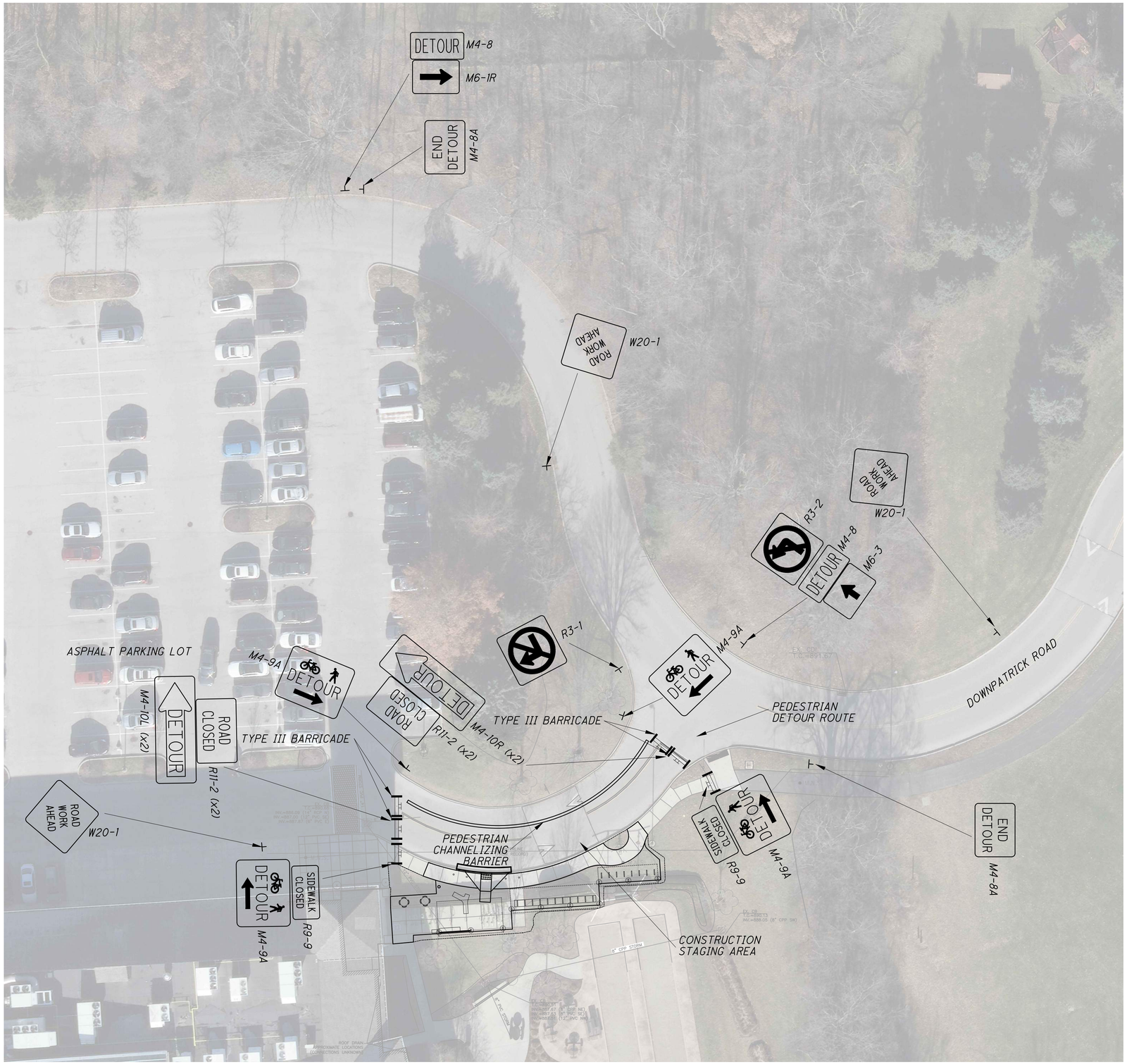

TRAFFIC CONTROL

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.*

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MTH
CHECKED PHF

MAINTENANCE OF TRAFFIC PLAN
DUBLIN COMMUNITY RECREATION CENTER

22-014-CIP

8
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KEYNOTES

1. *EXISTING CONCRETE TO BE REMOVED - 61 SY*
2. *EXISTING CONCRETE WALK TO BE REMOVED - 511 SF*
3. *EXISTING ASPHALT TO BE REMOVED - 5 SY*
4. *EXISTING LANDSCAPED AREA TO BE REMOVED - 1,170 SF*
5. *EXISTING CURB TO BE REMOVED - 20 LF*
6. *EXISTING FH (DND)*
7. *EXISTING LIGHT (DND)*
8. *EXISTING BIKE RACKS TO BE REMOVED - 8 EA*
9. *EXISTING CANOPY AND BENCH (DND)*
10. *EXISTING SIDEWALK PANELS MEETING ADA SLOPES (DND)*

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MTH
CHECKED PHF

DEMOLITION PLAN
DUBLIN COMMUNITY RECREATION CENTER

22-014-CIP

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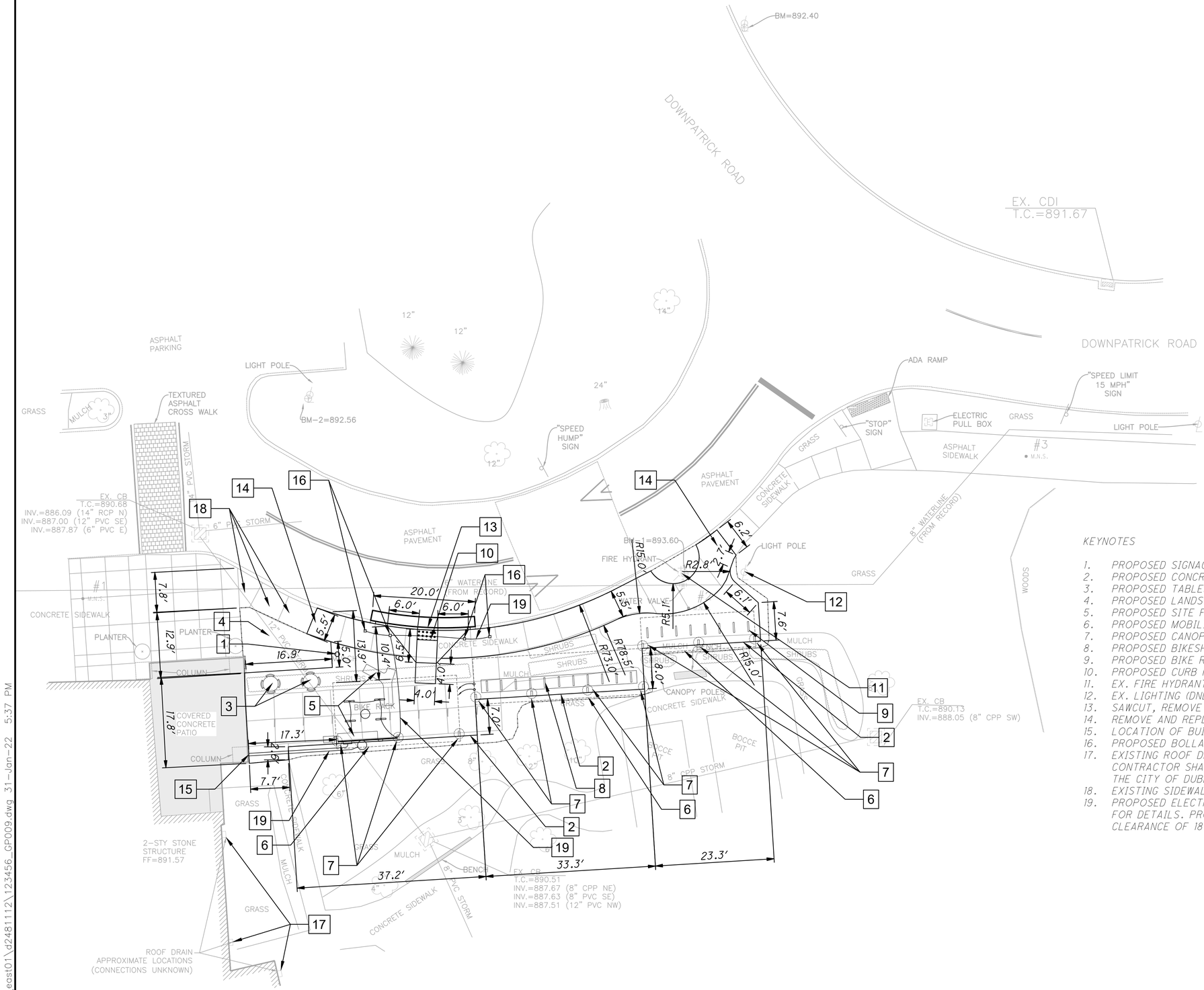

KEYNOTES

1. *PROPOSED SIGNAGE*
2. *PROPOSED CONCRETE PAVEMENT*
3. *PROPOSED TABLES AND SEATING*
4. *PROPOSED LANDSCAPE AREA*
5. *PROPOSED SITE FURNITURE*
6. *PROPOSED MOBILITY CANOPY*
7. *PROPOSED CANOPY FOUNDATION*
8. *PROPOSED BIKESHARE STATION*
9. *PROPOSED BIKE RACKS*
10. *PROPOSED CURB RAMP, LANDING & DETECTABLE WARNING*
11. *EX. FIRE HYDRANT (DND)*
12. *EX. LIGHTING (DND)*
13. *SAWCUT, REMOVE AND REPLACE EX PAVEMENT & CURB (APPROX. 21 LF)*
14. *REMOVE AND REPLACE EXISTING SIDEWALK*
15. *LOCATION OF BUILDING POWER & COMMUNICATIONS CONNECTION - TBD.*
16. *PROPOSED BOLLARDS*
17. *EXISTING ROOF DRAINS MAY BE BLIND TAPPED INTO STORM SEWER LINE. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY THE CITY OF DUBLIN AND ENGINEER OF RECORD OF ANY DISCREPANCIES.*
18. *EXISTING SIDEWALK PANELS MEETING ADA REQUIRED SLOPES (DND)*
19. *PROPOSED ELECTRICAL AND COMMUNICATIONS CONDUITS. SEE UTILITY PLAN FOR DETAILS. PROPOSED UTILITIES SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" TO EXISTING UTILITIES.*

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MTH
CHECKED PHF

PROPOSED SITE PLAN
DUBLIN COMMUNITY RECREATION CENTER

22-014-CIP

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ME 892.01
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ME 892.24
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ME 891.79
892.09
892.13
ME 891.17
ME 891.32
ME 891.44
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891.50
ME 891.27
ME 891.33

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED MTH
CHECKED PHF

GRADING AND DRAINAGE PLAN
DUBLIN COMMUNITY RECREATION CENTER

22-014-CIP

11
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PANELBOARD NO:				**PP**																									
VOLTAGE (L-L):				208		**BUS RATING (A):**				100						**ENCLOSURE:**		NEMA 3R											
VOLTAGE (L-N):				120		**MAIN OC DEVICE (A/PHASE):**				60						**MOUNTING:**		SURFACE											
PHASE / WIRE:				1 / 3+GND		**INTERRUPTING RATING (KA):**				10						**LOCATION:**		CANOPY STRUCTURE											
200% NEUTRAL:				NO		**SERVICE ENTRANCE LABEL:**				NO						**BUILDING:**													
WIRING				**CKT**		**CONNECTED LOAD (VA)**				**OCP**			**OCP**		**CONNECTED LOAD (VA)**						**CKT**	**WIRING**			
PHASE	**NEUT.**	**GRND.**	**COND.**	**NO.**	**DESCRIPTION**	**LTS**	**REC**	**MECH**	**MISC**	**AMPS**	**P**		**AMPS**	**P**	**LTS**	**REC**	**MECH**	**MISC**	**DESCRIPTION**	**NO.**	**PHASE**	**NEUT.**	**GRND.**	**COND.**
12	12	12	3/4"	1	LIGHTS	500				20	1	A	20	1					SPARE	2				
12	12	12	3/4"	3	HEATER				500	20	1	B	20	1					SPARE	4				
12	12	12	3/4"	5	WIFI ANTENNA				100	20	1	A	20	1					SPARE	6				
				7	FAN				100	20	1	B	20	1					SPARE	8				
				9	SPACE ONLY							A							SPACE ONLY	10				
				11	SPACE ONLY							B							SPACE ONLY	12				
				13	SPACE ONLY							A							SPACE ONLY	14				
				15	SPACE ONLY							B							SPACE ONLY	16				

NOTES:

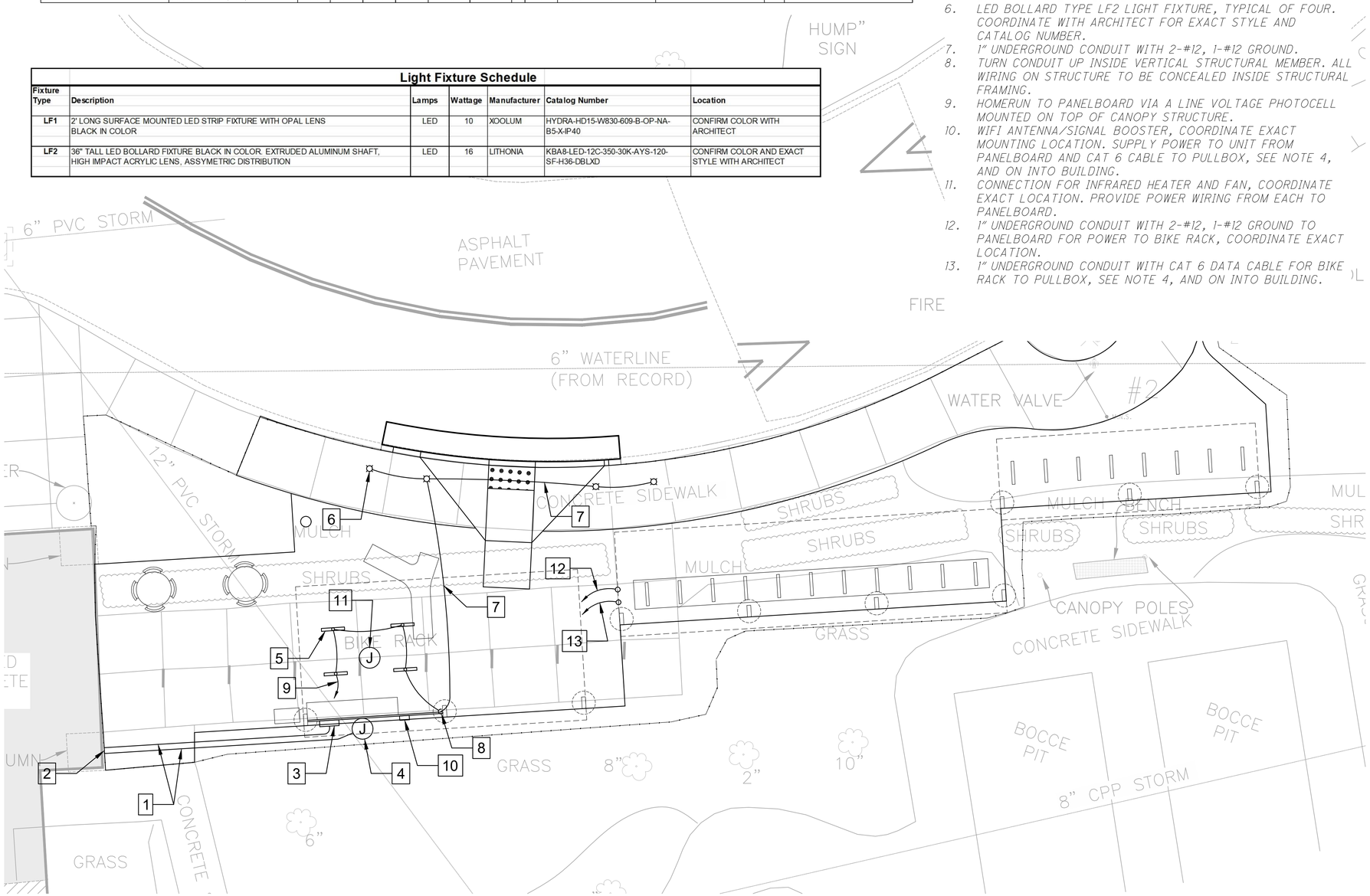
LOAD SUMMARY

	LTS	REC	MECH	MISC**	SPARE	TOTAL			PHASE BALANCE	
CONNECTED LOAD (KVA)	0.5	0.0	0.0	0.7	---	1.2	208	LINE-TO-LINE VOLTS	PHASE A (KVA)	600
DEMAND FACTOR **	1.25	NEC	---	1.00	20%	---	6	CONNECTED AMPS	PHASE B (KVA)	600
DESIGN LOAD (KVA)	0.6	0.0	0.0	0.7	0.2	1.6	8	DESIGN AMPS		

NOTES:
* REFER TO RISER DIAGRAM
** MISC DEMAND INCLUDES 25% OF LARGEST MOTOR KVA

Light Fixture Schedule

Fixture Type	Description	Lamps	Wattage	Manufacturer	Catalog Number	Location
LF1	2' LONG SURFACE MOUNTED LED STRIP FIXTURE WITH OPAL LENS BLACK IN COLOR	LED	10	XOOLUM	HYDRA-HD15-W830-609-B-OP-NA-B5-X-IP40	CONFIRM COLOR WITH ARCHITECT
LF2	36" TALL LED BOLLARD FIXTURE BLACK IN COLOR. EXTRUDED ALUMINUM SHAFT, HIGH IMPACT ACRYLIC LENS, ASSYMETRIC DISTRIBUTION	LED	16	LITHONIA	KBA8-LED-12C-350-30K-AYS-120-SF-H36-DBLXD	CONFIRM COLOR AND EXACT STYLE WITH ARCHITECT



KEYNOTES

1. UNDERGROUND CONDUITS FROM BUILDING, 1-2" PVC CONDUIT FOR POWER WITH 3-#4, 1-#8 GROUND AND 1-2" PVC CONDUIT FOR COMMUNICATIONS WITH CAT 6 DATA CABLES AS REQUIRED.
2. COORDINATE WITH OWNER AND EXTEND CONDUITS INTO BUILDING. POWER CONDUIT TO EXTEND TO A 208 OR 240 VOLT PANEL FOR A SINGLE PHASE POWER FEED TO NEW PANEL. COMMUNICATIONS CONDUIT TO EXTEND TO A TERMINATION POINT WITHIN THE BUILDING.
3. SINGLE PHASE PANELBOARD IN NEMA 3R ENCLOSURE MOUNTED ON REAR OF STRUCTURE. SEE PANELBOARD SCHEDULE FOR MORE INFORMATION.
4. NEMA 4X HINGED COVER LOCKABLE PULLBOX MOUNTED ON REAR OF STRUCTURE FOR DATA CABLES, SIZE AS REQUIRED.
5. 24" LONG LED LIGHT FIXTURE TYPE LF1, TYPICAL OF FOUR MOUNTED TO BOTTOM OF STRUCTURAL ROOF SUPPORTS. SEE LIGHT FIXTURE SCHEDULE.
6. LED BOLLARD TYPE LF2 LIGHT FIXTURE, TYPICAL OF FOUR. COORDINATE WITH ARCHITECT FOR EXACT STYLE AND CATALOG NUMBER.
7. 1" UNDERGROUND CONDUIT WITH 2-#12, 1-#12 GROUND.
8. TURN CONDUIT UP INSIDE VERTICAL STRUCTURAL MEMBER. ALL WIRING ON STRUCTURE TO BE CONCEALED INSIDE STRUCTURAL FRAMING.
9. HOMERUN TO PANELBOARD VIA A LINE VOLTAGE PHOTOCELL MOUNTED ON TOP OF CANOPY STRUCTURE.
10. WIFI ANTENNA/SIGNAL BOOSTER, COORDINATE EXACT MOUNTING LOCATION. SUPPLY POWER TO UNIT FROM PANELBOARD AND CAT 6 CABLE TO PULLBOX, SEE NOTE 4, AND ON INTO BUILDING.
11. CONNECTION FOR INFRARED HEATER AND FAN, COORDINATE EXACT LOCATION. PROVIDE POWER WIRING FROM EACH TO PANELBOARD.
12. 1" UNDERGROUND CONDUIT WITH 2-#12, 1-#12 GROUND TO PANELBOARD FOR POWER TO BIKE RACK, COORDINATE EXACT LOCATION.
13. 1" UNDERGROUND CONDUIT WITH CAT 6 DATA CABLE FOR BIKE RACK TO PULLBOX, SEE NOTE 4, AND ON INTO BUILDING.

UTILITIES

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

   AEP - NO CONFLICT
   AT&T - NO CONFLICT
   CHARTER/TIME WARNER - NO CONFLICT

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.

HORIZONTAL SCALE IN FEET
0 2.5 5 10
CALCULATED MTH
CHECKED PHF

DUBLIN COMMUNITY RECREATION CENTER
UTILITY PLAN
22-014-CIP

12
20

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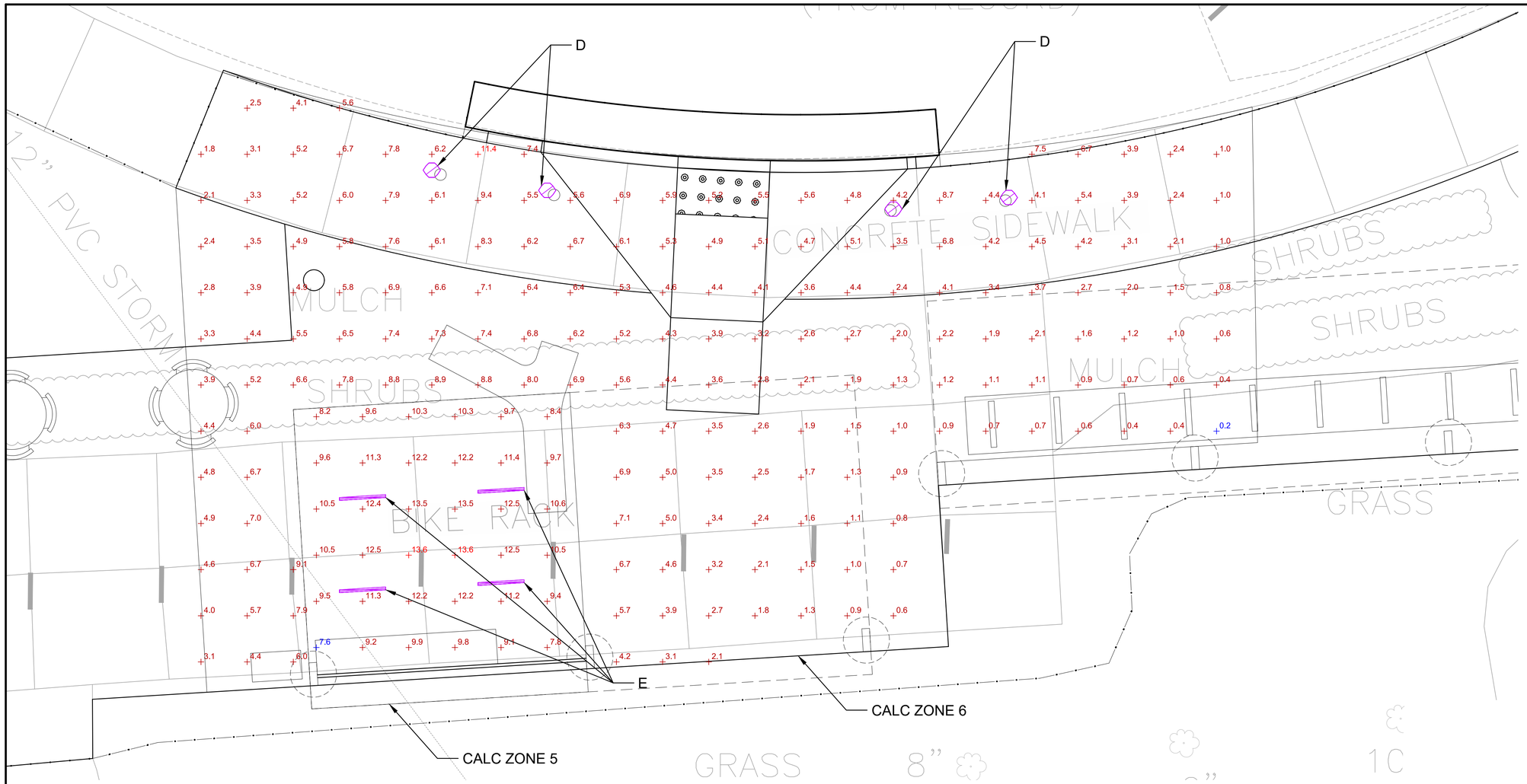
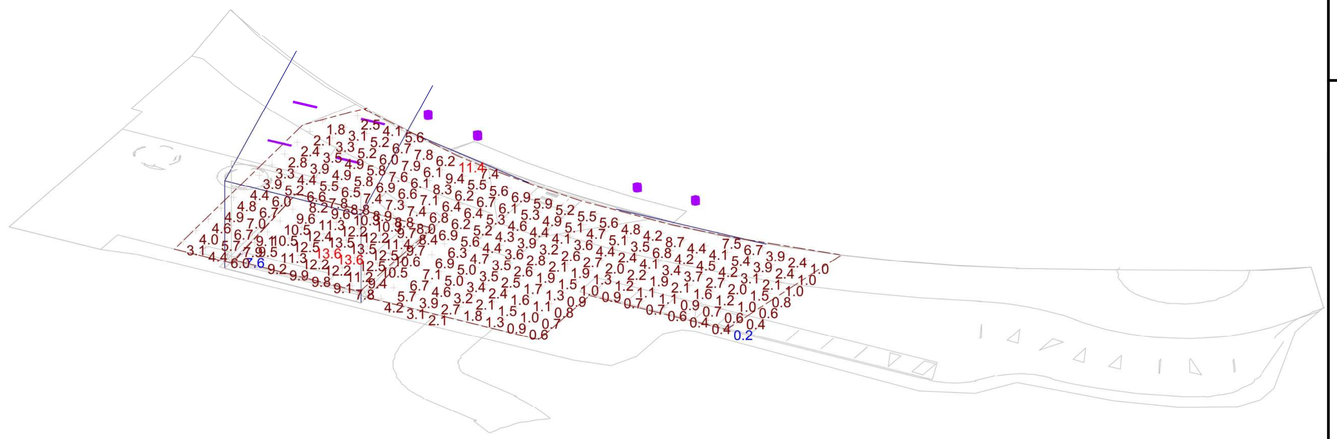


Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	D		4	Lithonia Lighting	KBA8 LED 12C 350 30K ASY MVOLT	KBA8 WITH 3 LIGHT BOARDS (12 LEDs), 350mA DRIVER, 3000K COLOR TEMP, AND ASYMMETRIC OPTIC	1	641	0.95	16	Max: 369cd
	E		4	LED Linear GmbH		ADONIS TC White HYDRA HD36 W830 IP67 639	1	1445	0.95	22.5	Max: 483cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #5	+	10.8 fc	13.6 fc	7.6 fc	1.8:1	1.4:1
Calc Zone #6	+	4.2 fc	11.4 fc	0.2 fc	57.0:1	21.0:1



South East View

HORIZONTAL SCALE IN FEET
0 1.75 2.5 5

CALCULATED RG
CHECKED DW

PHOTOMETRIC PLAN
DUBLIN COMMUNITY RECREATION CENTER
22-014-CIP

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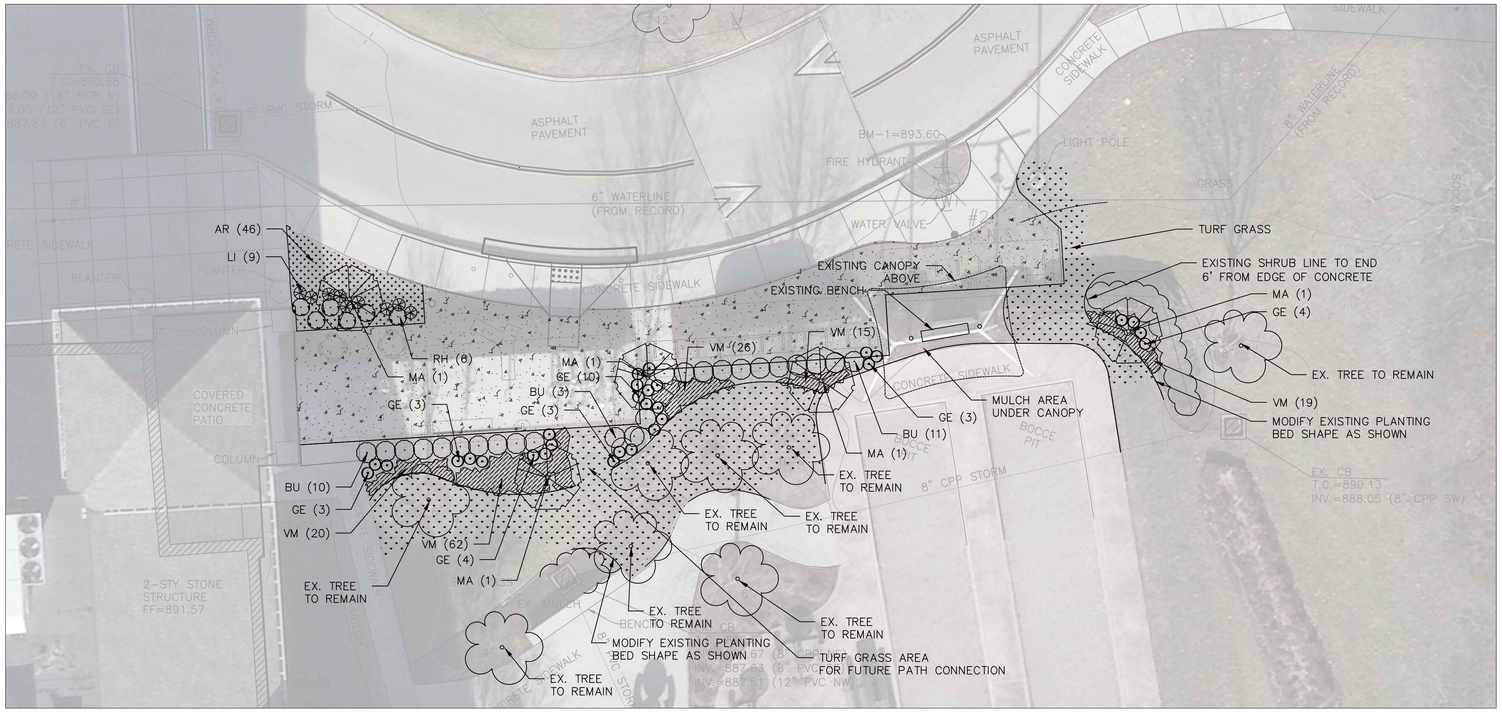


1 PLANTING PLAN
1" = 10'-0"

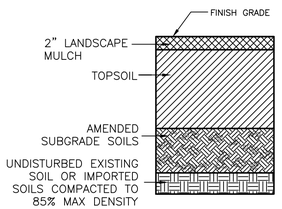
GENERAL NOTES:

1. ALL TREE PRESERVATION AND LANDSCAPE PLANTING TO COMPLY WITH CITY OF DUBLIN LANDSCAPE REQUIREMENTS, AND CITY OF DUBLIN LANDSCAPE AND TREE PRESERVATION MANUAL.
2. IRRIGATION DESIGN BY OTHERS. PROPOSED IRRIGATION DESIGN AND MODIFICATIONS TO EXISTING SYSTEM SHALL BE INCLUDED IN SHOP DRAWING AND WITH APPLICABLE SPECIFICATIONS PROVIDED TO OWNER BY CONTRACTOR PRIOR TO CONSTRUCTION.
3. ANY PLANT SUBSTITUTIONS SHALL BE INCLUDED IN ACCEPTABLE PLANTS LIST PER CITY OF DUBLIN LANDSCAPE AND TREE PRESERVATION MANUAL AND APPROVED BY OWNER.
4. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
5. CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED MARCH 1, 2018 AND ANY SUBSEQUENT REVISIONS SHALL APPLY TO ALL LANDSCAPE WORK PERFORMED.

PLANTING NOTES:

1. ANY DISCREPANCIES W/ THE DRAWINGS AND/OR SPECS & SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING W/ CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. PLANT MATERIAL LOCATIONS SHALL BE COORDINATED W/ EXISTING SPRINKLER IRRIGATION HEAD LOCATIONS (IF ANY) TO AVOID CONFLICTS.
4. CONTRACTOR SHALL FIELD STAKE TREE & SHRUB PLANTING LOCATIONS PRIOR TO PLANTING FOR ENGINEER REVIEW & APPROVAL.
6. EXISTING PLANTING BED SHAPE MODIFICATION AND NEW PLANTING BED SHAPES TO BE STAKED PRIOR TO WORK FOR ENGINEER REVIEW AND APPROVAL.
7. ALL GROUNDCOVER PLANT SPACING IS TRIANGULAR UNLESS OTHERWISE NOTED.
8. NEW TURF GRASS SOD OR SEADING TO COVER ALL DISTURBED AND DEMOLISHED AREAS WHERE GRASS IS SHOWN, AND EXTEND TO A POINT WHERE EXISTING GRASS IS WELL ESTABLISHED AND HEALTHY.

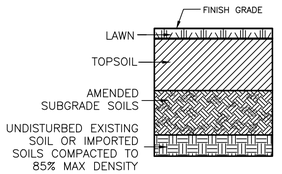
NOTE:
A) COMPACTION OF TOPSOIL SHALL BE ACHIEVED THOUGH FOOT COMPACTION TO SPECIFIED LEVEL.
B) MULCH SHALL BE 35-50% BARK OR WOOD CHIPS AND 50-65% COMPOST PER THE PROJECT SPECIAL PROVISIONS.



2A SOIL PREP (SHRUB AREA)
NOT TO SCALE

PLANTING AREA PREPARATION CONSTRUCTION SEQUENCE:

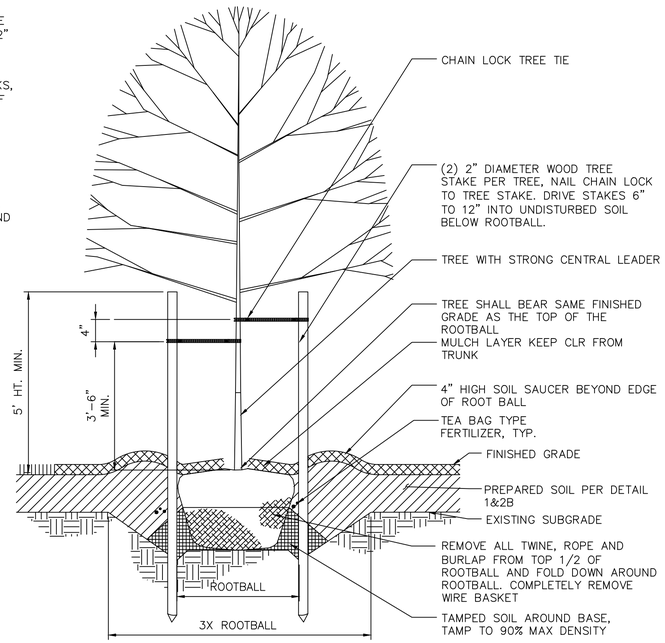
1. AFTER CONCRETE AND OTHER INFRASTRUCTURE WORK IS COMPLETED, ESTABLISH SUBGRADE 12" BELOW ADJACENT CURB OR PAVING IN MULCH AREAS.
2. REMOVE ALL DEBRIS INCLUDING STUMPS, STICKS, ROOTS AND ROCKS OVER 3" AND DISPOSE OFF SITE. ENG SHALL REVIEW AND APPROVE SUBGRADE PRIOR TO PROCEEDING WITH WORK.
3. PLACE 3" DEPTH OF SOIL AMENDMENT, TILL INTO EXISTING SUBGRADE TO A DEPTH OF 6". COMPACT TO 85% MAXIMUM DRY DENSITY.
4. PLACE 9" DEPTH TOPSOIL. COMPACT TO 85% MAXIMUM DRY DENSITY. ENG SHALL REVIEW AND APPROVE TOPSOIL INSTALLATION PRIOR TO PROCEEDING WITH WORK.
5. INSTALL 2" DEPTH OF LANDSCAPE MULCH.



2B SOIL PREP (LAWN AREA)
NOT TO SCALE

PLANTING AREA PREPARATION CONSTRUCTION SEQUENCE:

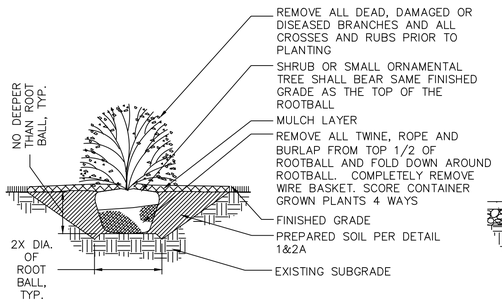
1. AFTER CONCRETE AND OTHER INFRASTRUCTURE WORK IS COMPLETED, ESTABLISH SUBGRADE 8" BELOW ADJACENT CURB OR PAVING IN MULCH AREAS.
2. REMOVE ALL DEBRIS INCLUDING STUMPS, STICKS, ROOTS AND ROCKS OVER 3" AND DISPOSE OFF SITE. ENG SHALL REVIEW AND APPROVE SUBGRADE PRIOR TO PROCEEDING WITH WORK.
3. PLACE 3" DEPTH OF SOIL AMENDMENT, TILL INTO EXISTING SUBGRADE TO A DEPTH OF 6". COMPACT TO 85% MAXIMUM DRY DENSITY.
4. PLACE 4" DEPTH TOPSOIL. COMPACT TO 90% DENSITY WITH A WATER FILLED LANDSCAPE LAWN ROLLER. ENG SHALL REVIEW AND APPROVE TOPSOIL INSTALLATION PRIOR TO PROCEEDING WITH WORK.



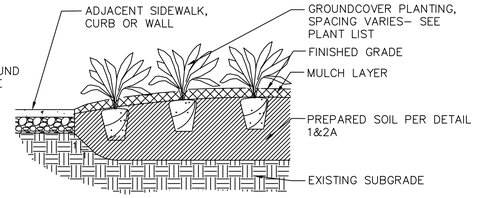
3 TREE PLANTING
NOT TO SCALE

PLANT SCHEDULE:

	QTY	ID	SCIENTIFIC NAME / COMMON NAME	SIZE / REMARKS / NOTES
	5	MA	MALUS X / PRAIRIFIRE CRABAPPLE	2" CALIPER – 6-7' HT MIN. / B&B OR CONTAINER GROWN / FULL, WELL BRANCHED, SINGLE OR MULTI-STEM
	24	BU	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD	15-18" / #5 CONT. / PLANTED 30" O.C.
	6	RH	RHODODENDRON CATAWBIENSE / CUNNINGHAM'S WHITE RHODODENDRON	18-24" / #5 CONT. / PLANTED 30" O.C.
	9	LI	LIRIOPE MUSCARI 'BIG BLUE' / LILITURF	8-10" / #1 CONT. / PLANTED 18" O.C.
	30	GE	GERANIUM X 'GERWAT' / ROZANNE	8-10" / #1 CONT. / PLANTED 18" O.C.
	142	VM	VINCA MINOR / BOWLES MYRTLE	4-6" / #1 CONT. / PLANTED 12" O.C.
	46	AR	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS'/ BEARBERRY	4-6" / #1 CONT. / PLANTED 18" O.C.
	750SF		TURF GRASS	GRASS SOD OR SEADED TO MATCH EXISTING



4 SHRUB PLANTING
NOT TO SCALE



5 GROUNDCOVER PLANTING
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED BC
CHECKED PHF

LANDSCAPE PLAN AND DETAILS
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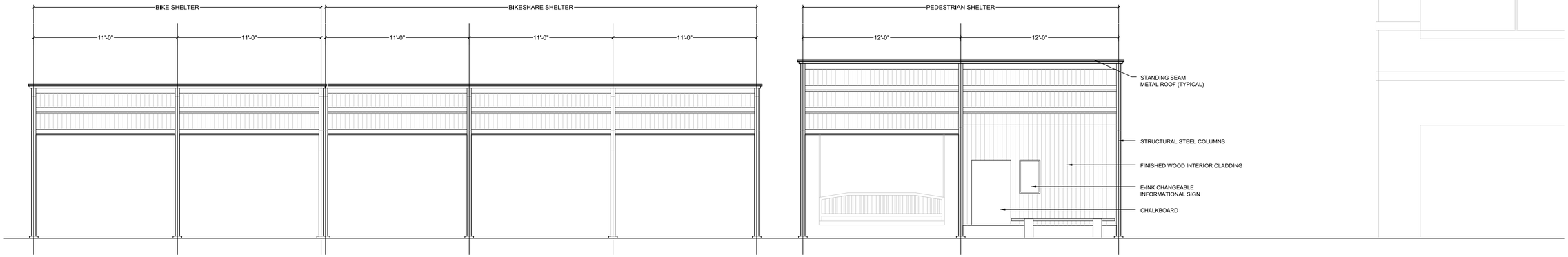
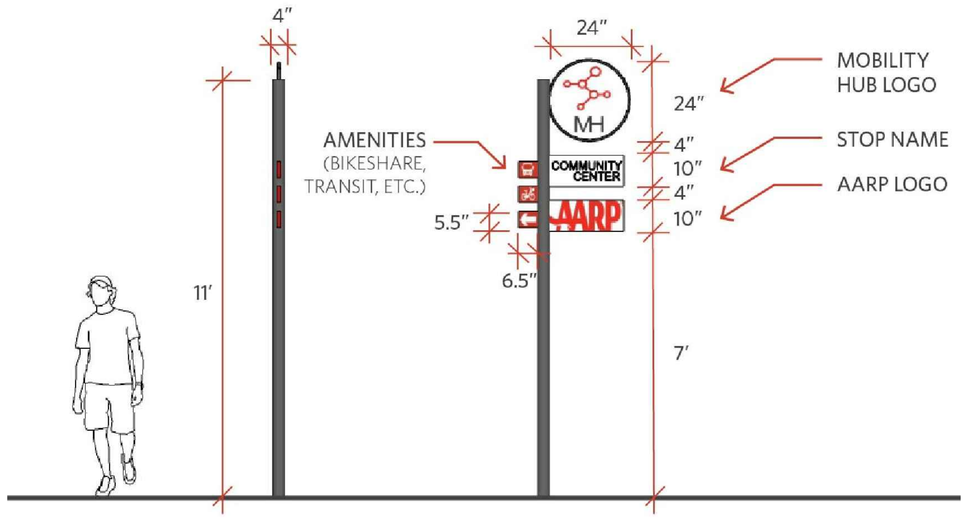


1 NORTH CANOPY ELEVATION
1/4" = 1'-0"

2 EAST CANOPY ELEVATION
1/4" = 1'-0"



3 SIGNAGE ELEVATION
1/2" = 1'-0"

CALCULATED MTH
CHECKED PHF

ELEVATIONS AND SIGNAGE
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1 CONCEPT RENDERING*
NTS

*NOTE – RENDERING IS FOR ILLUSTRATIVE PURPOSES ONLY

CALCULATED MTH
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ELEVATIONS AND SIGNAGE
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TWIG

Product Data Sheet

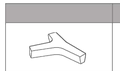
Twig is a modular bench system made of reinforced concrete. The freestanding three-armed pieces create branch-like formations, and the gently curved back offers a comfortable resting point. A series of joined benches become meeting places in public spaces or borders that connect paved and green spaces.

Bench

- TWIG is a modular bench made of reinforced cast stone.
- Bench is available backed or backless.
- TWIG's weight allows for a freestanding installation.
- TWIG is offered in acid-etched/waterproofed finish, and comes in Grey, Black, White, and Beige.

Material

- Reinforced Cast Stone is cast stone that is poured and cast over a stainless steel bar cage built to fit within the walls of the mold.
- Reinforced Cast Stone makes it possible to cast thinner, irregularly shaped forms while retaining appropriate strength.
- The colors of Escofet cast stone products are neutral, muted and earth-toned and are derived from the aggregates used in casting.
- No color is added in manufacture and no color is applied to finished products.
- The color range of every Escofet cast stone product is predetermined by the formulation used in its manufacture.
- Cast stone products do not require any specific maintenance during their estimated lifespan of more than 30 years. Water absorption and freeze-thaw cycles can cause weathering, a reproduction of the process that takes place in natural rock.
- Escofet applies a waterproof finish to its products to protect against this process.
- Escofet cast stone products are large and heavy.
- Shipping, receiving,staging and installing these pieces is more akin to handling large statuary or pre-fabricated architectural elements.
- See installation guide for important information.

	DEPTH	LEGHTH	HEIGHT	PRODUCT WEIGHT
	76"	90"	18"	3,660 lb
	76"	76"	31"	4,188 lb

TWIG

Product Data Sheet

Product Warranty

- ESCOFET warrants the durability of its product to Landscape Forms for a period of five (5) years from the date of invoice.
- The warranty covers the repair or replacement of the product or components at no charge.
- Notwithstanding, this warranty does not cover damages to ESCOFET products resulting from unloading; handling; installation; abuse; exposure to paint, liquids or corrosives; or any other damage not attributable to ESCOFET.
- The warranty shall also be void if ESCOFET products are tampered with, handled, removed or modified by persons not authorized by ESCOFET; or if the product has not been properly maintained by the customer.

To Specify

- To order, specify TWIG, backed or backless, and standard color.
- Benches are freestanding.
- See materials/color sheet for Escofet's standard color options.

Designed by Alexander Lotersztain

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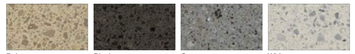
Twig

Material / Colors

Cast Stone Acid-Etched Finish



Beige | Black | Grey | White

Bola Bike Rack

Product Data Sheet

An artful solution for bicycle storage and security that meets Association of Pedestrian and Bicycle and Professionals (APBP) recommendations. Bola's understated design doesn't conflict with other site elements. An artful solution for bicycle storage and security that meets Association of Pedestrian and Bicycle and Professionals (APBP) recommendations. Bola's understated design doesn't conflict with other site elements.

Bike Rack

- Capacity: 2 bikes
- Bike racks made of 1.5" o.d., .120" wall stainless steel tubing, with a #4 satin electropolish finish on bare stainless steel.
- Bola is also available in powdercoated steel.
- Bola must be embedded.
- Bola can secure two bicycles parked parallel to the rack.
- The bicycles can be headed in opposite directions, or in the same direction. The rack provides two-point contact to prevent the bicycle from tipping over.
- A standard D-shaped bike lock can secure both a wheel and the frame.

Finishes

- All metal parts are finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading.
- Call for standard color chart.

To Specify

- Select bike rack style. Specify powdercoat color or stainless steel.

Designed by Brian Kane, IDSA

Style	Depth	Width	Height	Weight
	1.5"	28.25"	32"	13 lbs

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POWDERCOAT CHART

PRODUCT DATA

All Forms+Surfaces powdercoat colors have been formulated to be ultra-durable for improved long-term wear and resistance to weathering. Our powdercoat colors are also anti-graffiti, allowing marks from paint, permanent markers, and dirt to be easily removed. All standard powdercoat finishes are no-VOC.

STANDARD TEXTURES

ALABASTER TEXTURE | ALUMINUM TEXTURE | ARGENTO TEXTURE | AUBERGINE TEXTURE
BLACK TEXTURE | CLAY TEXTURE | COOL GREY TEXTURE | DARK BRONZE METALLIC TEXTURE
DARK CORTEN TEXTURE | DARK GREY METALLIC TEXTURE | DEEP OCEAN TEXTURE | INK BLUE TEXTURE
MOSS TEXTURE | SILVER TEXTURE | SLATE TEXTURE | WHITE TEXTURE

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CHARLIE

Product Data Sheet

Charlie contributes to the sense of movement in vibrant public spaces. Tabletop and seats are floating planes connected, lifted, and supported by the swooping lines of legs that dance on the ground below. The oval form comfortably seats up to six people on two benches and supports social interchange as sitters face each other directly across the table.

Charlie Table

- The Charlie table is a 67" oval that seats up to 6 people.
- Steel seat panels have a perforated pattern, and are surrounded by cast aluminum trim.
- Ribbon-like steel legs support the steel/aluminum table top, and are surface mounted through stainless steel glides/inserts.
- Stainless steel anchoring hardware ships with the table.
- An offset umbrella hole option is available.
- Charlie is ADA compliant and must be surface mounted.
- Umbrella must be ordered with stand.

	STYLE	LENGTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	67" table	67"	67"	30"	430 lb
	67" table with umbrella hole	67"	67"	30"	430 lb

To Specify

- Specify a Charlie table, with or without umbrella hole and powdercoat color.
- Charlie ships with mounting hardware.

Designed by Gustafson Guthrie Nichol Ltd

Charlie

Powdercoated Metal (Gloss)*

Black | Blue Bell | Buttercup | Cranberry | Flambé Orange | Grass

Ivy | Ocean | Stormcloud | White

Powdercoated Metal (Metallic)*

Bronze | Silver | Steel | Stone | Titanium | Mercury

Designer Palette Architectural Series (Low Sheen)*

Blue Ash | Dusk | Nutmeg | Obsidian | Onyx | Matte Black

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

* All colors and patterns shown are approximate and may vary from sample and final.

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Chase Park

Product Data Sheet

Chase Park combines robust structure and materials with winning garden bench appeal. Chase Park, designed by Kipp Stewart, is a family of outdoor elements that makes its debut with modular seating and receptacles to match. The collection is constructed of cast aluminum with rugged steel frames to provide exceptional durability and a highly refined look. Designed and built to meet the rigors of urban spaces, the furniture-like quality of individual seats within the frame makes Chase Park suitable for more intimate settings as well. In one, two or three-module units, Chase Park is a refreshing addition to Landscape Forms' offering of distinctive furniture that enlivens outdoor space.

Seat

- Chase Park seats may be specified as two or three-seat units.
- All seats are backed. Intermediate arms may be specified for all multiple seat styles.
- Materials consist of cast aluminum seats and backs supported on a steel structure. Seats are attached to the frames with stainless steel fasteners.

Mounting Options

- Two- and three-seat options can be surface mounted, freestanding, or embedded.

	Style	Depth	Width	Height	Product Weight
	Two-Seat	26"	50"	35"	140 lbs
	Three-Seat	26"	74"	35"	202 lbs

Mounting Options		
Surface Mount	Freestanding	Embedded

Chase Park

Product Data Sheet

Litter Receptacles

- Receptacle features a hinged side panel door for easy emptying.
- Constructed of cast aluminum sides and door, with spun aluminum top and polyethylene base filled with concrete.
- Door hinge and latch are carbon steel with a Magni-coat.
- Top and side-opening receptacle can be freestanding or surface mounted.
- Logo band available with both top opening and side-opening styles.
- Sand pan optional with side opening unit.
- Capacity of the top-opening receptacle is 40 gallons, for side-opening, 36 gallons.
- An optional keyed lock may be specified.
- Custom fit polyethylene liner in black, standard with all receptacles.
- Chase Park also available in a Dual-use, side opening receptacle and a single-use, top opening receptacle.
- Recycling litter available with 5", or 10" diameter top openings to collect recyclable material.
- Labels with recycle symbol and specified recyclable material printed on high performance, exterior grade UV protected vinyl, mounted securely to each unit.
- For more information on signage options, visit landscapeforms.com

Finishes

- All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling, and fading.
- Call for standard color chart.

To Specify

- Choose signage and keyed doorlock options.
- Specify powdercoat color.
- A wide array of optional colors may be specified for an upcharge

Designed by Kipp Stewart

	Style	Diameter	Height	Product Weight
	Top-Opening	24"	39"	166 lbs
	Side-Opening	24"	39"	162 lbs
	Top-Opening with logo band	24"	39"	175 lbs
	10" Top-Opening with signage	24"	39"	167 lbs
	Side-Opening Dual-use unit	24"	39"	163 lbs
	Side-Opening Dual-use with logo band unit	24"	39"	172 lbs

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Chase Park

Material / Colors

Powdercoated Metal (Gloss)*

Black | Blue Bell | Buttercup | Cranberry | Flambé Orange | Grass

Ivy | Ocean | Stormcloud | White

Powdercoated Metal (Metallic)*

Bronze | Silver | Steel | Stone | Titanium | Mercury

Designer Palette Architectural Series (Low Sheen)*

Blue Ash | Dusk | Nutmeg | Obsidian | Onyx | Matte Black

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

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KNIGHT™ BOLLARD

PRODUCT DATA

FORMS+SURFACES®

Knight Bollards combine rustproof construction, a unique geometric design, and the striking aesthetic of the rest of the Knight family. Fixtures consist of a robust square column with the light source positioned above a beautifully detailed quadrant casting. Bollards can be specified for lighting only or with an optional internal security core designed to protect buildings and public spaces against vehicle infringement. Available with LED lamping, standard Knight Bollards have a symmetrical lighting pattern.

MATERIAL & CONSTRUCTION DETAILS

COLUMN

- Column is 8" x 8" square (203 mm x 203 mm square) extruded aluminum with rounded corners.
- Standard height is 43.1" (1095 mm); shorter heights down to a minimum of 33" (838 mm) are available on a custom basis.

FINISHES

- For column and head powdercoat options see the Forms+Surfaces Powdercoat Chart for details. Custom RAL colors are available for an upcharge.
- Quadrant castings are Aluminum Texture powdercoat with polished outer edges. All quadrant casting surfaces are clear-coated.
- Due to the inherent nature of metal castings, gloss powdercoats are not offered for cast components.

HEAD

- Aluminum quadrant casting with aluminum lamp housing and four borosilicate glass lenses. Lenses can be replaced with opaque shields for asymmetrical distribution, if required.

WEIGHT

- 45 lbs (20.4 kg)

LED LAMP & DRIVER

- Custom LED light engine, featuring advanced LED technology with 16W, 3000K warm white and 4000K natural white LEDs.
- Two bollard options are available: 0-10V dimming (120-277 VAC input power) or phase dimming (120 VAC input power); -40°C to 90°C operating temperature.
- LED driver certifications include: IP66 (waterproof) enclosure, and Class 2 rated output (UL8750).

INSTALLATION & MAINTENANCE

INSTALLATION

- Standard mounting is surface mount with 1/2" -13x18" galvanized steel J-bolt anchors. Security bollards use an embedded security core, available for an upcharge.
- Installation of a surge protector as part of each units wiring is recommended.
- Stainless steel mounting hardware sold separately. Templates available upon request.

MAINTENANCE

- Metal surfaces can be cleaned as needed, using a soft cloth or brush with warm water and a mild detergent. Avoid abrasive cleaners.

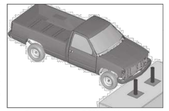
OPTIONAL SECURITY CORE

Site security is a major concern in today's unpredictable world. Public and private buildings, government facilities, campuses and public parks are all susceptible to accidental, as well as deliberate, vehicle infringement. Design professionals, city planners, facilities managers and engineers must now be increasingly sensitive to the safety and security requirements of public and private spaces. Security bollards placed at ingress points are an excellent way to guard against vehicle infringement while still allowing pedestrian access.

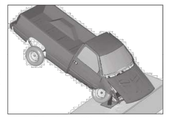
Until now, most security bollards have taken the form of generic pipes and cylinders that offered little in the way of design or lighting functionality. An integral security solution is now available as an optional enhancement to Forms+Surfaces' Knight lighting bollards. By adding a pre-engineered and fully-tested security core to the existing Knight design, we can offer a beautiful and efficient lighting bollard that also meets the stringent hi-impact crash requirements normally attained only with unattractive pipe barriers.

Forms+Surfaces' security bollards have been tested using a Finite Element Analysis (FEA) by a professional engineering consultant. FEA is a software-based tool commonly used in the automotive industry and used extensively for crash test simulations. All of our bollards with the security solution option were tested and passed a very demanding set of impact criteria. Tests were performed using our bollards set in permanent concrete footings spaced 42" apart (to assure a minimum of two bollards being hit) and struck by a vehicle at a 90-degree impact. The impact simulation found the bollards to be successful in stopping a 5,500 lb. vehicle travelling at a minimum test velocity of 40 mph.

In addition to our permanently embedded security bollards, Forms+Surfaces can also provide non-illuminated options. Please contact us to discuss design and installation considerations for Knight bollards with security cores.



Crash scenario with 5,500 lb. pickup truck approaching embedded bollard system at 40 mph



Full-scale crash 330ms after impact

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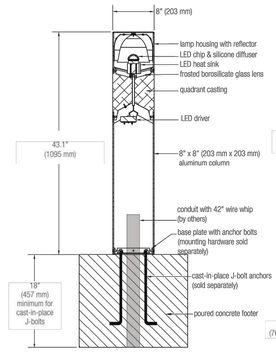
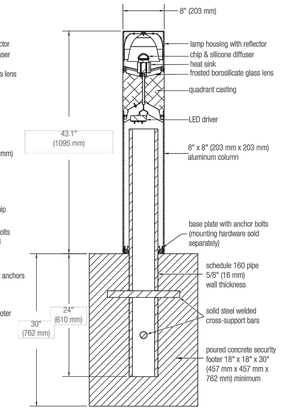
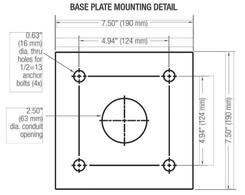
NOMINAL DIMENSIONS (SURFACE MOUNT)



NOMINAL DIMENSIONS (SECURITY CORE)



BASE PLATE MOUNTING DETAIL



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LAMP DESCRIPTIONS

LAMP	DESCRIPTION	BASE	LUMINAIRE LUMENS*	B.U.G. RATING
3000K LED	16W custom LED light engine	N/A	362	B0-U2-G0
4000K LED	16W custom LED light engine	N/A	362	B0-U2-G0

*Luminaire lumens represents the absolute photometry for the luminaire, and indicates the lumens out of the entire fixture.
NOTE: Polar candela and isofootcandle plots can be found on the Knight Bollard product page on our website.

CERTIFICATION

- ETL and C-ETL

ENVIRONMENTAL CONSIDERATIONS

- Please refer to the Knight Bollard Environmental Data Sheet for detailed environmental impact information.
- Knight Bollard has high recycled content and is highly recyclable.
- Standard powdercoat finishes are no-VOC; Non-standard powdercoat finishes are no- or low-VOC, depending on color.
- Low maintenance.

MODEL NUMBERS AND DESCRIPTIONS

MODEL	DESCRIPTION
LBKNI-LED	Knight Bollard, custom LED light engine

PRODUCT OPTIONS

The following options are available for an upcharge

Upgrade to embedded security core	Custom RAL powdercoat color
Add stainless steel mounting hardware	

LEAD TIME: 6 to 8 weeks. Shorter lead times may be available upon request. Please contact us to discuss your specific timing requirements.

PRICING: Please contact us at **800.451.0410** or **sales@forms-surfaces.com**. At Forms+Surfaces, we design, manufacture and sell our products directly to you. Our sales team is available to assist you with questions about our products, requests for quotes, and orders. Territory Managers are located worldwide to assist with the front-end specification and quoting process, and our in-house Project Sales Coordinators follow your project through from the time you place an order to shipment.

TO ORDER SPECIFY: Quantity, model, powdercoat color, surface mount or embedded security core. Quote/Order Forms are available on our website to lead you through the specification process in a simple checkbox format.

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42” Digital Real Time Display

Connectpoint’s newest generation of large ePaper displays have rugged protection, enhanced energy management and superb clarity. The CP-42 offers a customizable presentation of visual mapping, real-time departures, custom messaging, and optional advertising. This display can be either AC or solar-powered and mounted to a shelter frame or enclosed in a freestanding totem.

The CP-42 has been tested for extreme weather and outdoor use and offers a high-resolution ePaper screen with crisp daytime and nighttime visibility. The system’s power and content are remotely managed by its cloud-based Connectpoint Asset Management System (CPAM™) from the convenience of a desktop or mobile device.

CP 42 Specifications

Active Area	42 inches
Dimensions	37.3”H x 28.8”W x 1.5”D
Weight	49 lbs
Resolution	2880 x 2160
Orientation	Landscape or Portrait
Screen Protection	2 layered: 3mm Tempered and 2mm Gorilla Glass 3 (anti-glare & UV stability) / IK07
Viewing Angle	Ultra-Wide 160°
Screen Color	16 level Greyscale Monochrome
Screen Illumination	Direct Light Guide
Connectivity	Wireless Cellular (4G) or WiFi or Ethernet
Operating Temperature	-20°C to 60°C
IP Rating	IP 66
Text-to-Speech	TTS capable with audio button option
Power Requirements	Ultra Low Power 12 v, Solar/LiFePo Battery, 110v Adapter
Installation Applications	Shelter, Wall, Totem, Kiosk, Custom Build

Ordering Matrix

Code	Model	Power Source	SIM Provider	Connection Type	Orientation	Text to Speech
CP	42	DC (Solar)	CS (Connectpoint)	C (Cellular Wireless) W (WIFI) E (Ethernet)	P (Portrait) L (Landscape)	Optional
Example: CP-42-DC-CS-C-P-B						

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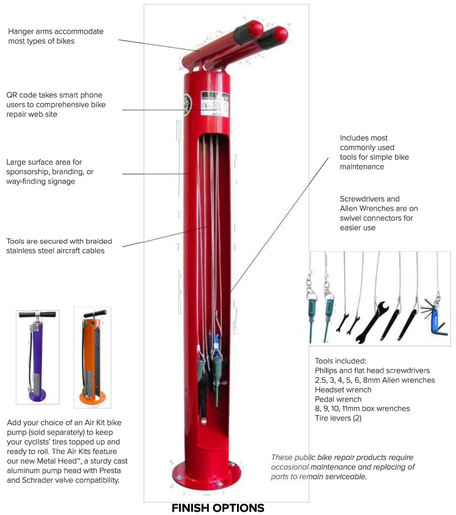


FINISH OPTIONS

Galvanized

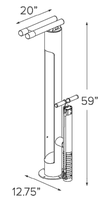
Stainless

Powder Coat

White	Black	Light Gray RAL 7042	Deep Red RAL 3003	Yellow RAL 1021
Pitch Bright Yellow	Orange RAL 2004	Beige RAL 1001	Iron Gray 7/9	Hunter Green RAL 6005
Light Green RAL 6018	Green RAL 6016	Sepia Brown RAL 8014	Bronze	Silver 9007
Dark Purple	P&I Black	White Red RAL 3005		

thepark AND FACILITIES CATALOG

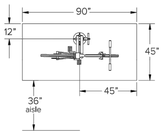
FIXIT
Submittal Sheet



Fixit with Air Kit Prime

Fixit with Air Kit 4

Minimum Footprint



CAPACITY 1 Bike

MATERIALS
Main body: 6”x .154” tube
Bike Hanger: 1.5” sch. 40 pipe, ¼” plate
Foot: 10” dia. x .25” plate
Tool tethers: 5/32” stainless steel cable
Manual air pump
Hand tools:
Phillips and flat head screwdrivers
2.5, 3, 4, 5, 6, 8mm Allen wrenches
Headset wrench
Pedal wrench
8, 9, 10, 11mm box wrenches
Tire levers (2)

FINISHES

☐ **Galvanized**
An after fabrication hot clipped galvanized finish is our standard option.

☐ **Powder Coat**
Our powder coat finish assures a high level of adhesion and durability by following these steps:
1. Sandblast
2. Epoxy primer electrostatically applied
3. Final thick TGIC polyester powder coat

☐ **Stainless**
Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.

MOUNT OPTIONS

☐ **Surface**
Has 10” diameter x.25” foot with four anchors per foot.

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Solaira® alpha series

Powerful, versatile heating system, engineered for commercial, industrial and residential applications.

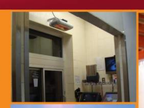
The SOLAIRA ALPHA SERIES electric infrared heaters represent the evolution of engineered short wave heating technology. Alpha Series Heaters produce short wave length infrared that convert 90% of consumed energy to instant, controllable, directional heat. This heating technology is not affected by wind or draft as it warms people, objects and things and not the air.

The modular design of the Solaira Alpha Series allows specifying engineers to adjust and direct specified heating loads based on area requirements. The Alpha Series modern, sleek design allows architects to integrate heating technology with clean un-intrusive lines. Alpha Series Heaters are engineered to meet IP24 standard for water spray so they can be installed in both wet (outdoor) or dry conditions (indoor or outdoor).

3 year Fixture * Warranty

WEATHER PROOF TECHNOLOGY

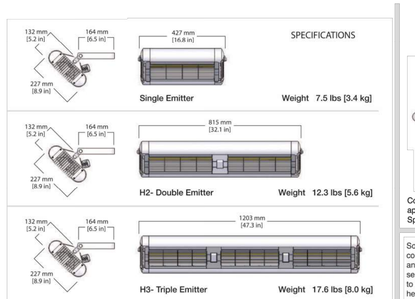
ENERGYSMART Co²Free!



- **Powder coated aircraft aluminum body and mounting brackets, stainless steel mounting hardware**
- **Indoor OR outdoor rated for wet or dry conditions**
- **Modular design for engineered heat load requirement**
- **Engineered for both wall and overhead mounting**
- **90% energy conversion with no Co^2 or NOX emission**
- **cCSAus listed and certified to ANSI/UL 1278, UL 2021, ANSI/UL 875 and ANSI/UL 834**

In association with members of:

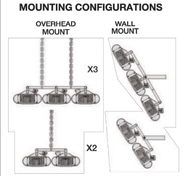
AIA · ASHRAE · American Society of Landscape Architects · NECA National Electrical Contractors Association



All Commercial heaters should be installed by certified electrician to local and state electrical codes

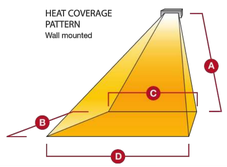
Not Suitable for Recess Application

MOUNTING CONFIGURATIONS



Connecting brackets allow for high density application and adjustable focal point. Specification requires 2 heaters and X3, 3 heaters.

Solaira variable controllers, timers and occupancy sensors allow you to control precise heat requirements and minimize energy consumption.



Heat Coverage Examples

Model	A	B	C	D	Heat Zone*	Heat Density*
SALPHA15120S	8’2”	10’	10’	12’	110 sq. ft.	13 Watt/sq. ft.
SALPHA15240S	8’2”	10’	10’	12’	110 sq. ft.	13 Watt/sq. ft.
SALPHA20240S	8’2”	10’	10’	12’	110 sq. ft.	18 Watt/sq. ft.
SALPHAH2-30240S	10’	11’	13’	16’	160 sq. ft.	19 Watt/sq. ft.
SALPHAH2-40240S	10’	11’	13’	16’	160 sq. ft.	25 Watt/sq. ft.
SALPHAH3-60240S	12’	14’	15’	18’	230 sq. ft.	26 Watt/sq. ft.
SALPHAH2-40240S X2	12’	14’	15’	17’	200 sq. ft.	34 Watt/sq. ft.
SALPHAH3-60240S X2	15’	20’	15’	22’	370 sq. ft.	32 Watt/sq. ft.

* Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted heat zones will be different than this guide). Please use this as a guideline only and contact Solaira for a more detailed specifier guide.

Solaira Alpha Series available in Silver grey. Custom RAL Color available as special order.

Model (S-silver/grey color)	Watt	Volt	Ampere	L x D x H	Weight	Emitter(s)	Replacement Emitter
SALPHA15120S	1.5kW	120V	12.5A	16 x 6 x 9	7.5 lbs	1 emitter	SWIREAW15120
SALPHA15240S	1.5kW	240V	6.25A	16 x 6 x 9	7.5 lbs	1 emitter	SWIREAW15240
SALPHA20240S	2.0kW	240V	8.33A	16 x 6 x 9	7.5 lbs	1 emitter	SWIREAW20240
SALPHAH2-30240S	3.0kW	240V	12.5A	32 x 6 x 9	12.3 lbs	2 emitter	SWIREAW15240
SALPHAH2-40240S	4.0kW	240V	16.7A	32 x 6 x 9	12.3 lbs	2 emitter	SWIREAW20240
SALPHAH3-60240S	6.0kW	240V	25A	48 x 6 x 9	17.6 lbs	3 emitter	SWIREAW20240

HIGH OUTPUT MODULAR OPTIONS - sample configurations

Model	Watt	Volt	L X D X H	Weight	Emitter(s)	Replacement Emitter
SALPHAH2-40240S X2	8.0kW	240V*	32 X 6 X 18	24.6 lbs	4 emitter	SWIREAW20240
SALPHAH3-60240S X2	12.0kW	240V*	48 X 6 X 18	35.2 lbs	6 emitter	SWIREAW20240

Solaira®

CUSTOM RAL COLOR AVAILABLE

INFORESIGHT
INFORESIGHT CONSUMER PRODUCTS INC.
PHONE: 905-568-7655 • FAX: 905-568-7521
WWW.SOLAIRAHEATERS.COM
125 Traders Blvd. #4,
Mississauga, Ontario, Canada, L4Z 2H3

CALCULATED MTH
CHECKED PHF

SITE AMENITY DETAILS
DUBLIN COMMUNITY RECREATION CENTER

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