

GENERAL NOTES

- 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.
- 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.
- 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.
- The Contractor shall notify the City of Dublin Division of Engineering in writing at least 3 working days prior to beginning construction.
- 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.
- 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 construction drawings.
- 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.
- The Contractor shall carefully preserve bench marks, 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.
- Non-rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the City Engineer.
- The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or water courses that are disturbed by construction shall be restored to the grades and cross-sections that existed before construction.
- 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.
- Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) is not permitted.
- 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.
- 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.
- 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.
- 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 III according to Item 636. Item 911 of the Standard Specifications may be used elsewhere.
- 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

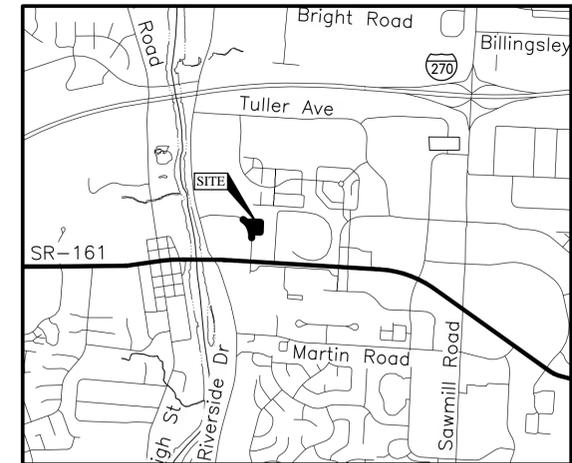
Send a copy of the transmittal letter to the following address:
Division of Engineering
City of Dublin
5800 Shier Rings Road
Dublin, Ohio 43016
- All trenches within public right-of-way shall be backfilled according to the approved construction drawings or securely plated during nonworking hours. Trenches 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.
- 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.
- 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 III) shall be used in place of compacted granular backfill, according to Item 636 of the Standard Specifications.
- 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.
- 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 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.
- 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.
- Any modification to the work shown on drawings must have prior written approval by the City Engineer, City of Dublin.
- All inlets shall be channelized.
- 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 as directed by the Division of Parks & Recreation, City of Dublin, Ohio.
- 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.
- 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

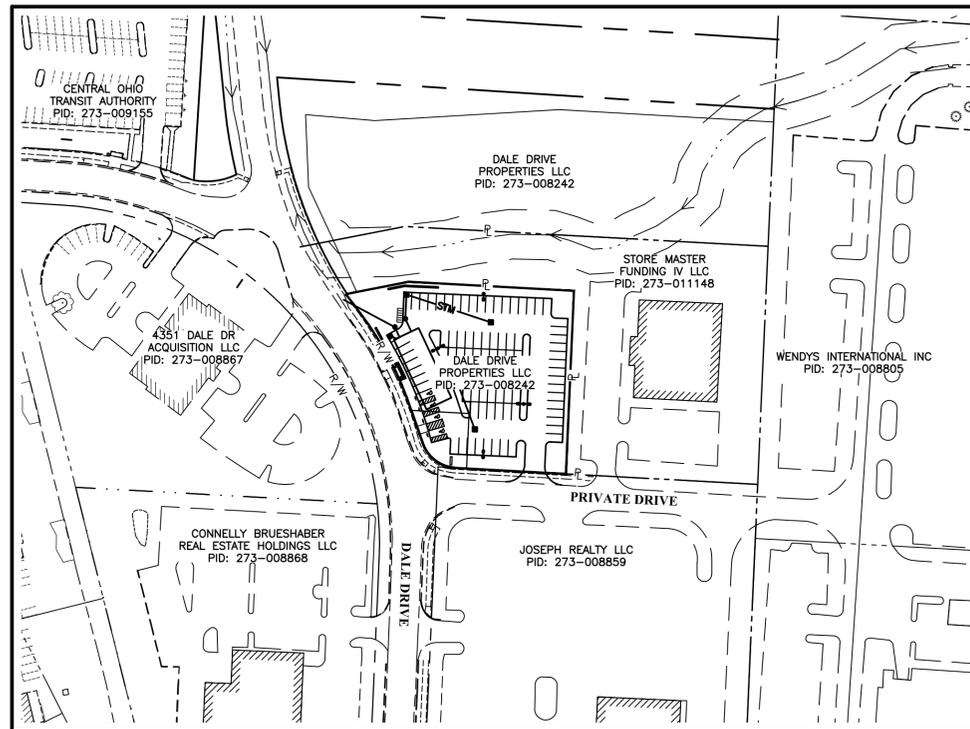
- The following utilities are known to be located within the limits of this project:

Columbia Gas of Ohio Rob Caldwell - Field Engineer 1600 Dublin Road Columbus, Ohio 43212	City of Dublin Division of Engineering Ken Richardson, P.E. 5800 Shier Rings Road Dublin, Ohio 43016 (614) 410-4631	City of Columbus Division of Power and Water (Water) 910 Dublin Road, 2nd Floor Columbus, Ohio 43215 (614) 645-7677	Verizon Bill Muether 550 Leader Street Marion, Ohio 43302 (740) 383-0527
American Electric Power Rob Sloneker 850 Tech Center Drive Gahanna, Ohio 43230-6605 (614) 883-6829	Time Warner Cable Ray Maurer 3760 Interchange Road Columbus, Ohio 43204 (614) 481-5262	AT&T of Ohio Tom Ziomek 111 North 4th Street Columbus, OH 43215 (614)223-7162	Wide Open West Jaytee Novaria 3675 Corporate Drive Columbus, Ohio 43231 (614) 948-4653

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO PRIVATE SITE IMPROVEMENT PLAN FOR COTA PARK AND RIDE 2015



LOCATION MAP
Not to Scale



INDEX MAP
Scale: 1" = 100'

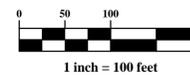
DEVELOPER/OWNER

City of Dublin
5800 Shier Rings Road
Dublin, Ohio 43016
Tel: (614) 410-4600
Fax: (614) 410-4747

ENGINEER

EMH&T Inc.
5500 New Albany Road
Columbus, Ohio 43054
Tel: (614) 775-4500
Fax: (614) 775-4800

GRAPHIC SCALE



SHEET INDEX

Title Sheet	1
General Notes and Details	2
Existing Conditions	3
Site and Utility Plan	4
Grading Plan	5
Site Photometrics	6
Landscape Plan	7

SITE DATA

Existing Site Area:	±0.81 Acres
Proposed Site Area	±0.88 Acres
Pre-Developed Impervious Area	±0.00 Acres
Post-Developed Impervious Area	±0.67
Disturbed Area:	±0.88 Acres
Proposed COTA Park and Ride Parking Stalls	85 Spaces

PROJECT DESCRIPTION

This is a proposal for a new development of a COTA Park and Ride parking lot, on approximately 0.88 acres, located to the east of Dale Drive and to the north of a private road connecting Dave Thomas Blvd and Dale Drive.

PRELIMINARY
NOT TO BE USED FOR
CONSTRUCTION

PLAN SET DATE
June 1, 2015



MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PRIVATE SITE IMPROVEMENT PLAN
FOR
COTA PARK AND RIDE
TITLE SHEET



DATE
June 1, 2015

SCALE
As Noted

JOB NO.
2014-0588

SHEET
1/7

- 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 614-587-0496), 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.
- 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.
- 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.
- When unknown or incorrectly located underground utilities are encountered during construction, the Contractor shall immediately notify the owner and the City Engineer.
- 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

- Traffic control shall be furnished, erected, maintained, and removed by the Contractor according to Ohio Manual of Uniform Traffic Control Devices (OMUTCD), current edition.
- 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 otherwise directed 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.
- If the City Engineer determines proper provisions for traffic control are not being provided by the Contractor, the City Engineer shall assign uniformed, off-duty police officers to the project at no cost to the City.
- Steady-burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night.
- 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

- The City 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.
- The Contractor shall provide sediment control at all points where storm water runoff leaves the project, including waterways, overland sheet flow, and storm sewers.
- 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.
- The Contractor shall provide adequate drainage of the work area at all times consistent with erosion control practices.
- Disturbed areas that will remain unworked for 21 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)

- 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

- Construction of the sanitary sewer will be permitted upon receiving an OEPA Permit to Install (PTI). The city is responsible for obtaining all required Ohio EPA approvals and paying review fees.
- 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.
- The minimum requirements for sanitary sewer pipes with diameters 15 inch 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, instead Ductile Iron, CI. 50 (AWWA 151) shall be used with prior written approval by the City Engineer. Pipe materials and related structures shall be shop tested in accordance with City of Columbus Construction Inspection Division quality control requirements.
- The minimum requirements for sanitary sewer pipes with diameters greater than 15 inch shall be reinforced concrete pipe ASTM C76 with Class according to the approved construction drawings.
- 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.
- Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 636, Type III of the Standard Specifications as directed by the City Engineer.
- 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.
- 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.
- Temporary bulkheads shall be placed in pipes at locations shown on the approved construction drawings and shall remain in place until 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.
- 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.
- 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.
- 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.
- Visible leaks or other defects observed or discovered during TV inspection shall be repaired to the satisfaction of the Engineer.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

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

WATERLINE

- All water line materials shall be provided and installed according to current specifications of the City of Columbus Division of Power and Water (Water).
- All public water pipe with a diameter 3 inches to 8 inches shall be Ductile Iron, Class 53. Public water pipe 12 inch 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 Power and Water (Water) prior to approval of the construction drawings.
- Only fire hydrants conforming to City of Columbus standards will be approved for use.
- Public water lines shall be disinfected by the City of Columbus Division of Power and Water (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.
- 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 Power and Water (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.
- 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.
- No water taps or service connection permits (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 Power and Water (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 Power and Water (Water) before making any taps into public water lines.
- The Contractor shall notify the City of Columbus Division of Power and Water (Water) at 645-7788 and the City of Dublin Division of Engineering at least 24 hours before tapping into existing water lines.
- All water main stationing shall be based on street centerline stationing.
- All bends, joint deflections and fittings shall be backed with concrete per City of Columbus standards.
- 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.
- Water meters shall be installed inside proposed structures unless a meter pit installation is approved by the City of Columbus Division of Power and Water (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.
- Water lines to be installed in embankment areas shall be placed after the embankment has been placed and compacted according to the Standard Specifications.
- Curb stop boxes shall be located at least 2 feet inside the right-of-way or 1 foot inside of sidewalk towards the curb and set at finished grade.
- 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.
- 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.
- Two 3/4 inch taps shall be installed within 2 feet of the end of a line on all dead-end water lines.
- All water mains shall be cleaned and flushed, also any water main 12-inch and larger must be properly pigged, in accordance with section 801.11 of the City of Columbus, Construction and Materials Specifications.

STORM SEWERS

- 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.
- 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.
- Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 636, Type III of the Standard Specifications as directed by the City Engineer.
- 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.
- All 8 inch storm sewers shall be Ductile Iron Pipe conforming to the material specification of AWWA C151, Joint Specification AWWA C111, and Bedding Classification of ASTM C-12 All Ductile Iron Pipe shall be concrete encasing per City of Columbus Standard Drawing AA-S148.
- 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. Surfaces to be acid washed before approval of stone facing.
- Storm inlets or catch basins shall be channelized and have bicycle safe grates.
- 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

- The Contractor shall be responsible to ensure that U.S. 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.
- 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

- The Contractor shall make proper arrangements with the Dublin Service Department and the Columbus Division of Power and 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 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.
- Before the final estimate is paid, the Contractor shall submit a letter from the City of Columbus Division of Power and Water (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.

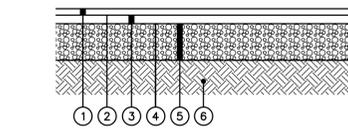
MISCELLANEOUS - DEVELOPER NOTES

- High Density Polyethylene (HDPE) corrugated pipe with integrally formed smooth interior wall, ADS N-12 or approved equal, is an approved alternate to reinforced concrete pipe in paved and non-paved areas.
- HDPE pipe joints shall be made using watertight couplers with "O"-ring gasket, ADS WT of approved equal, where rubber "O"-ring gasket (ASTM C-361) pipe is required on approved construction plans or within contract documents. All other pipe shall have a bell and spigot joint with rubber gasket meeting ASTM F477.
- All bedding material shall be in accordance with City of Columbus Standard Construction Drawing AA-S149.

- Backfill material shall be placed in accordance with Item 911 of the City of Columbus Construction Material Specifications (CMS).
- Backfill material in areas located outside the public right-of-way shall be placed in accordance with City of Columbus Standard Construction Drawing AA-S155.
- Height of cover shall be in accordance with the Ohio Department of Transportation (ODOT) Location and Design (L&D) Manual, Volume Two, Section 1008.3.1.
- All HDPE pipe 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.
- For any and all installations requiring the minimization of trench water migration, anti-seep collars shall be installed in accordance with the ODOT L&D Manual, Volume Two Section 1118.4.1.2 and ODOT Standard Hydraulic Construction Drawing WQ-1.2.

AS-BUILTS

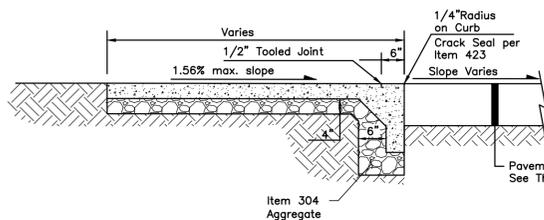
- As-builts of the site, utilities and stormwater management facilities shall be performed per requirements of the City of Dublin Administrative Policy & Procedure #08-030 prior to obtaining occupancy for the building.



- Item 448, 1 1/2" Asphalt Concrete Surface Course
- Item 407, NTSS-1HM Trackless Tack Coat (0.06 Gal/Sq. Yd)
- Item 448, 2 1/2" Asphalt Concrete Intermediate Course
- Item 407, NTSS-1HM Trackless Tack Coat (0.08 Gal/Sq. Yd)
- Item 304, 6" Crushed Aggregate Base
- Item 203, Subgrade Compaction

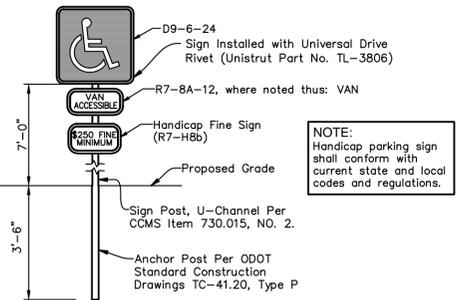
Note:

Pavement Section is per the recommendation of the Central Ohio Transit Authority (COTA) on December 22, 2014. All Pavement Materials shall Conform to the City of Columbus Construction and Material Specifications Together with the State of Ohio, Department of Transportation Construction and Material Specifications.



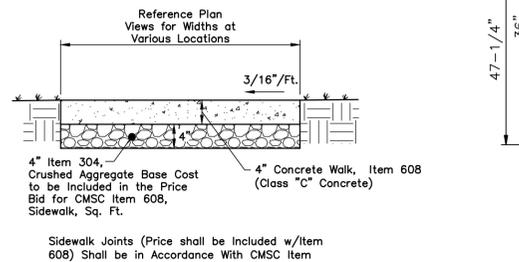
FLUSH COMBINATION CURB AND SIDEWALK

Not To Scale



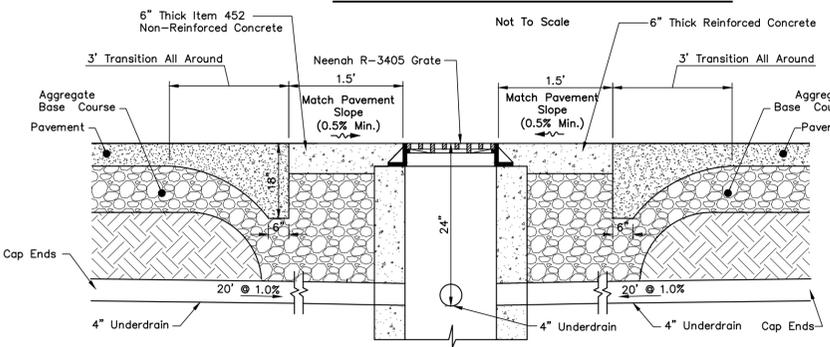
HANDICAP PARKING SIGN DETAIL

Not To Scale



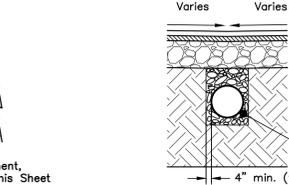
TYPICAL SIDEWALK SECTION

Not To Scale



CONCRETE/ASPHALT TURNDOWN DETAIL

Not To Scale

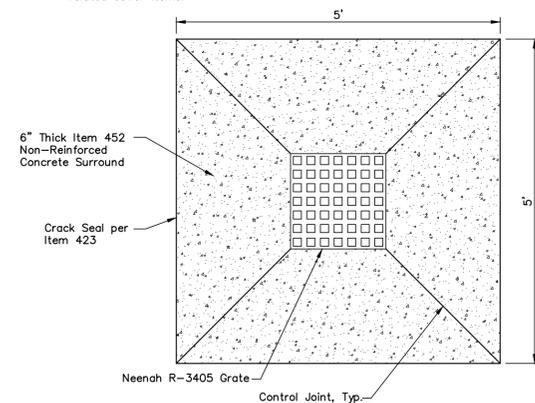


SECTION

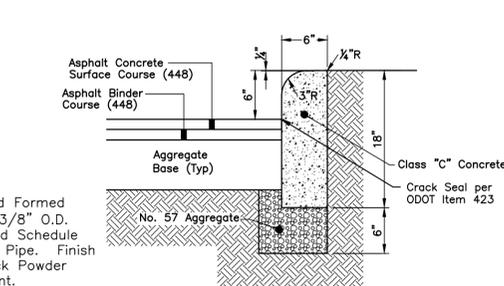
The 4" Perforated Underdrain shall be provided for each structure in all four directions unless otherwise directed.

The Perforated Pipe shall be protected from heavy traffic after installation prior to placement of proposed pavement.

The Contractor shall initially set the top of casting for an inlet structure within the paved areas to the elevation of the intermediate pavement course. Prior to final paving of surface course, the Contractor shall adjust the top of casting to finish pavement grade. Cost of the above shall be included in the price bid for the various related sewer items.

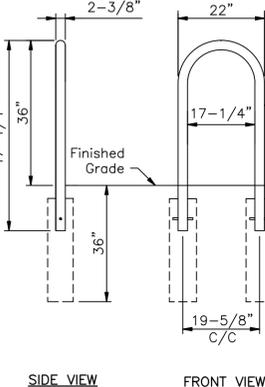


CONCRETE SURROUND WITH ASPHALT TURNDOWN FOR STRUCTURES WITHIN PAVEMENT



STRAIGHT 18" CONCRETE CURB

Not To Scale



BIKE RACK DETAIL

Not To Scale

REVISIONS	MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PRIVATE SITE IMPROVEMENT PLAN
FOR
COTA PARK AND RIDE
GENERAL NOTES AND DETAILS



DATE

June 1, 2015

SCALE

Not To Scale

JOB NO.

2014-0588

SHEET

2/7

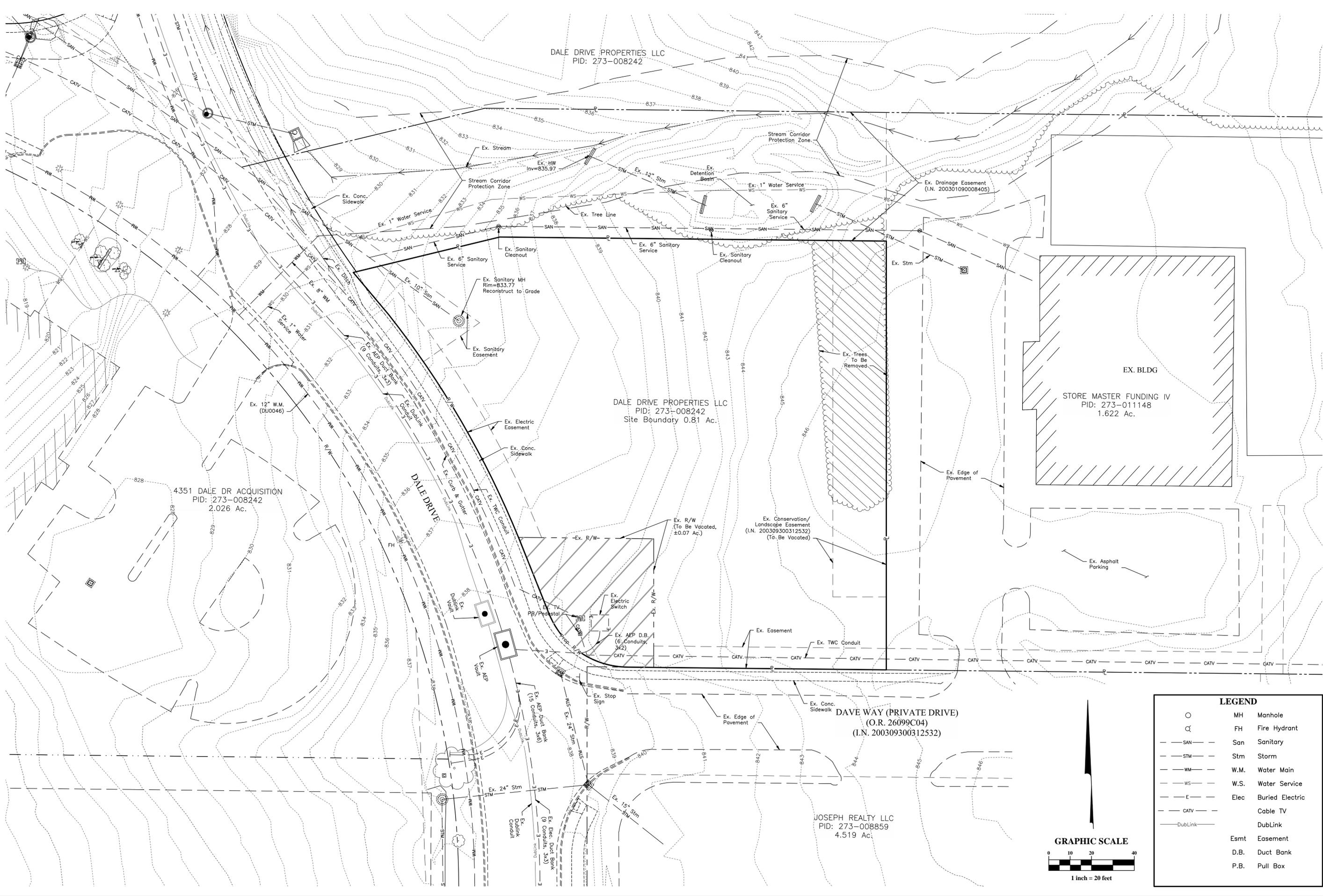
PRELIMINARY
NOT TO BE USED FOR
CONSTRUCTION

PLAN SET DATE
June 1, 2015

EMIT logo

EMIT logo

\\201405883.Dwg\04Sheets\Private_Site_Improvement_Plan\1_Existing_Conditions.dwg - Last Saved: 6/1/2015 5:31 PM Last Printed By: Pallier, James 6/1/2015 6:14 PM (No Xrefs)



MARK	DATE	DESCRIPTION

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PRIVATE SITE IMPROVEMENT PLAN
FOR
COTA PARK AND RIDE
EXISTING CONDITIONS



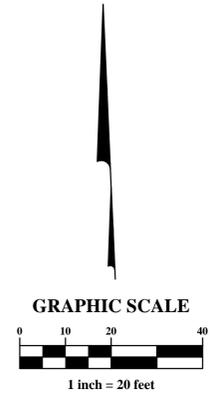
DATE
June 1, 2015

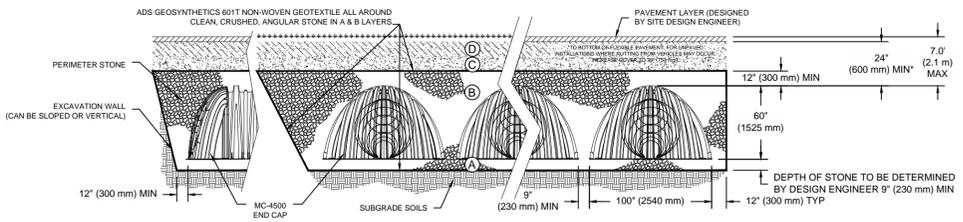
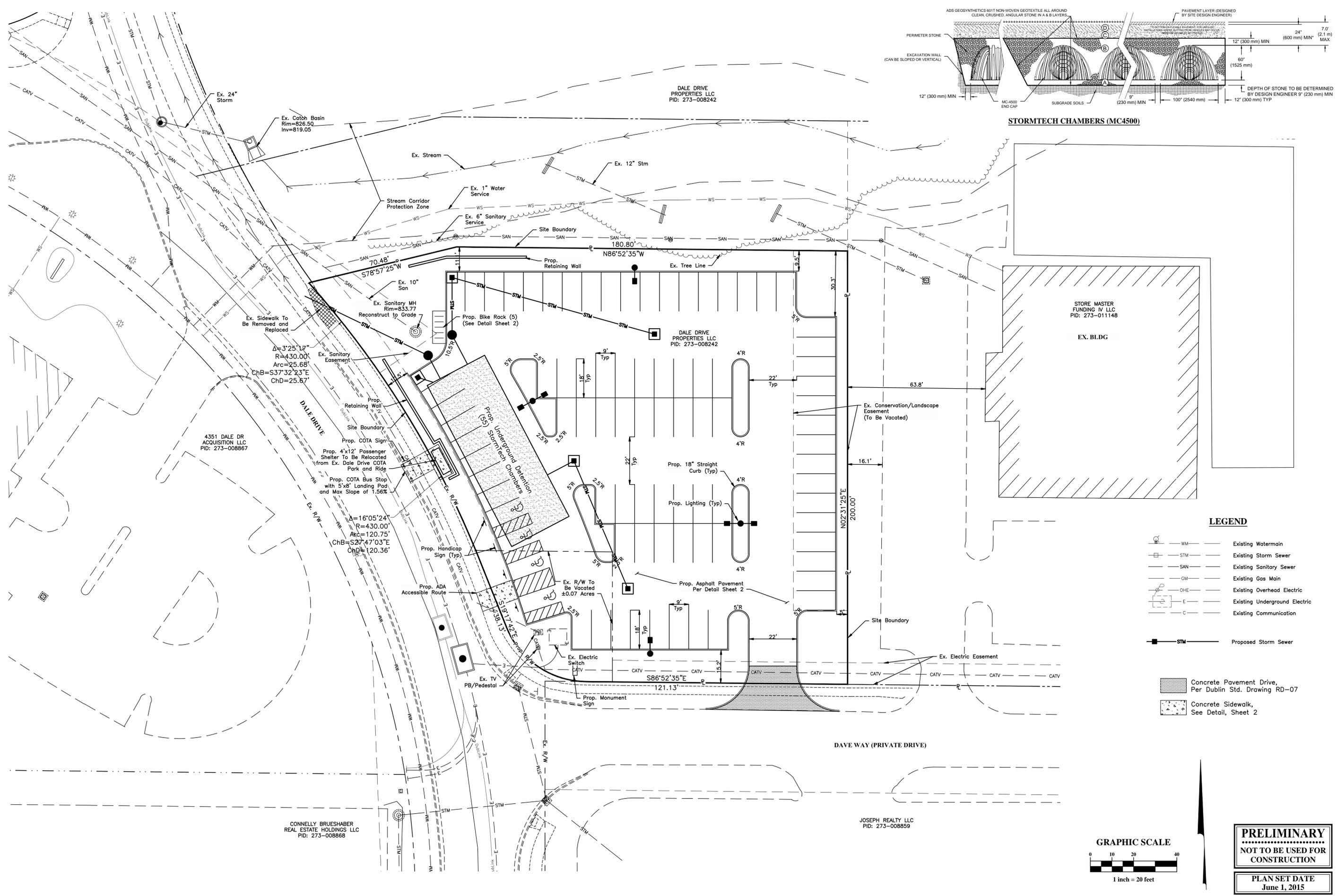
SCALE
As Noted

JOB NO.
2014-0588

SHEET
3/7

LEGEND	
○	MH Manhole
⊕	FH Fire Hydrant
— SAN —	San Sanitary
— STM —	Storm Storm
— WM —	W.M. Water Main
— WS —	W.S. Water Service
— E —	Elec Buried Electric
— CATV —	Cable TV Cable TV
— DubLink —	DubLink DubLink
Esmt	Easement Easement
D.B.	Duct Bank Duct Bank
P.B.	Pull Box Pull Box



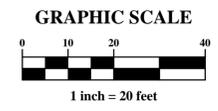


STORMTECH CHAMBERS (MC4500)

LEGEND

	Existing Watermain
	Existing Storm Sewer
	Existing Sanitary Sewer
	Existing Gas Main
	Existing Overhead Electric
	Existing Underground Electric
	Existing Communication
	Proposed Storm Sewer

- Concrete Pavement Drive, Per Dublin Std. Drawing RD-07
- Concrete Sidewalk, See Detail, Sheet 2



PRELIMINARY
 NOT TO BE USED FOR
 CONSTRUCTION

PLAN SET DATE
 June 1, 2015

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
 PRIVATE SITE IMPROVEMENT PLAN
 FOR
COTA PARK AND RIDE
 SITE STAKING AND UTILITY PLAN

EMHT
 Evans, Meecham, Hershberger & Tinn, Inc.
 5300 New Albany Road, Columbus, OH 43254
 Phone: 614.775.6900 Fax: 614.775.3448
 emht.com

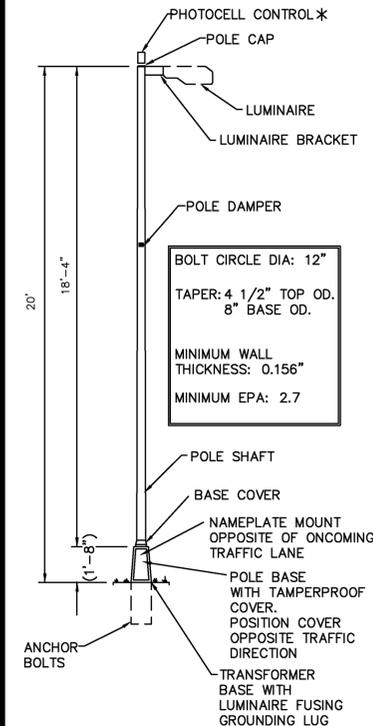
DATE
 June 1, 2015

SCALE
 1" = 20'

JOB NO.
 2014-0588

SHEET
 4/7

I:\2014\0588\Drawings\Sheets\Private_Site_Improvement_Plan\4_Site_Improvement_Plan.dwg, Last Saved By: jhallier, 6/1/2015 5:39 PM, Last Printed By: jhallier, 6/1/2015 6:15 PM (No Xrefs)



GENERAL DESCRIPTION - ALUMINUM ROUND TAPERED ANCHOR BASE WITH FINISH: A DARK BRONZE APPROVED BY THE CITY ENGINEER. THE PAINT SHALL BE A POWDER PAINT FINISHED TO A GLOSS OF 35% (AT 60 DEGREES) SPUN ALUMINUM FINISH WITH POLE CAP, TRANSFORMER BASE, BASE COVER AND BOLT COVERS.

POLE CAP - PROVIDE AN ORNAMENTAL ALUMINUM ALLOY CAP FASTENED VIA STAINLESS STEEL SCREWS.

POLE DAMPER-PROVIDE A SECOND MODE VIBRATION DAMPER ATTACHED TO MIDPOINT VIA WELDING. LOCATE INSIDE POLE. FACTORY INSTALLED.

BASE FLANGE-PROVIDE A ONE PIECE CAST SOCKET OF ALUMINUM ALLOY 356 THE FLANGE SHALL BE JOINED TO THE SHAFT BY MEANS OF CONTINUOUS WELD EXTERNALLY AND INTERNALLY.

BASE COVER-PROVIDE BOLT COVERS OF ALUMINUM ALLOY 43 AND STAINLESS STEEL SCREWS FOR ATTACHMENT.

MISCELLANEOUS HARDWARE-ALL NUTS, BOLTS, AND WASHERS USED IN THE FABRICATION OF THE POLE SHALL BE GRADE 18-8 STAINLESS STEEL EXCEPT FOR ANCHORAGE HARDWARE.

WRAPPING -EACH POLE SHAFT SHALL BE WRAPPED WITH PROTECTIVE PAPER SECURED IN PLACE. ALL PARTS SHALL BE BOXED AND/OR BANDED.

APPROVED MANUFACTURER- HAPCO SERIES 52, LEXINGTON/VALMONT OR APPROVED EQUAL.

POLE SHAFT-THE SHAFT SHALL BE ONE-PIECE SEAMLESS WITH A MINIMUM WALL THICKNESS OF 0.156 INCHES, ROUND TAPERED TUBE OF ALLOY 6063 AND SHALL BE FULL-LENGTH TEMPERED AFTER WELDING ON TOP BASE FLANGE TO PRODUCE THE T6 TEMPER. THE ENTIRE POLE ASSEMBLY SHALL BE RATED @ 90 MPH WITH A 30% GUST FACTOR FOR AN EPA. MINIMUM OF 2.7 TEMPLATE CUT FOR LUMINAIRE.

BOLT CIRCLE DIA: 12"
 TAPER: 4 1/2" TOP OD.
 8" BASE OD.
 MINIMUM WALL THICKNESS: 0.156"
 MINIMUM EPA: 2.7

*NONE PHOTOCELL REQUIRED PER CIRCUIT

Date: 09/18/2006

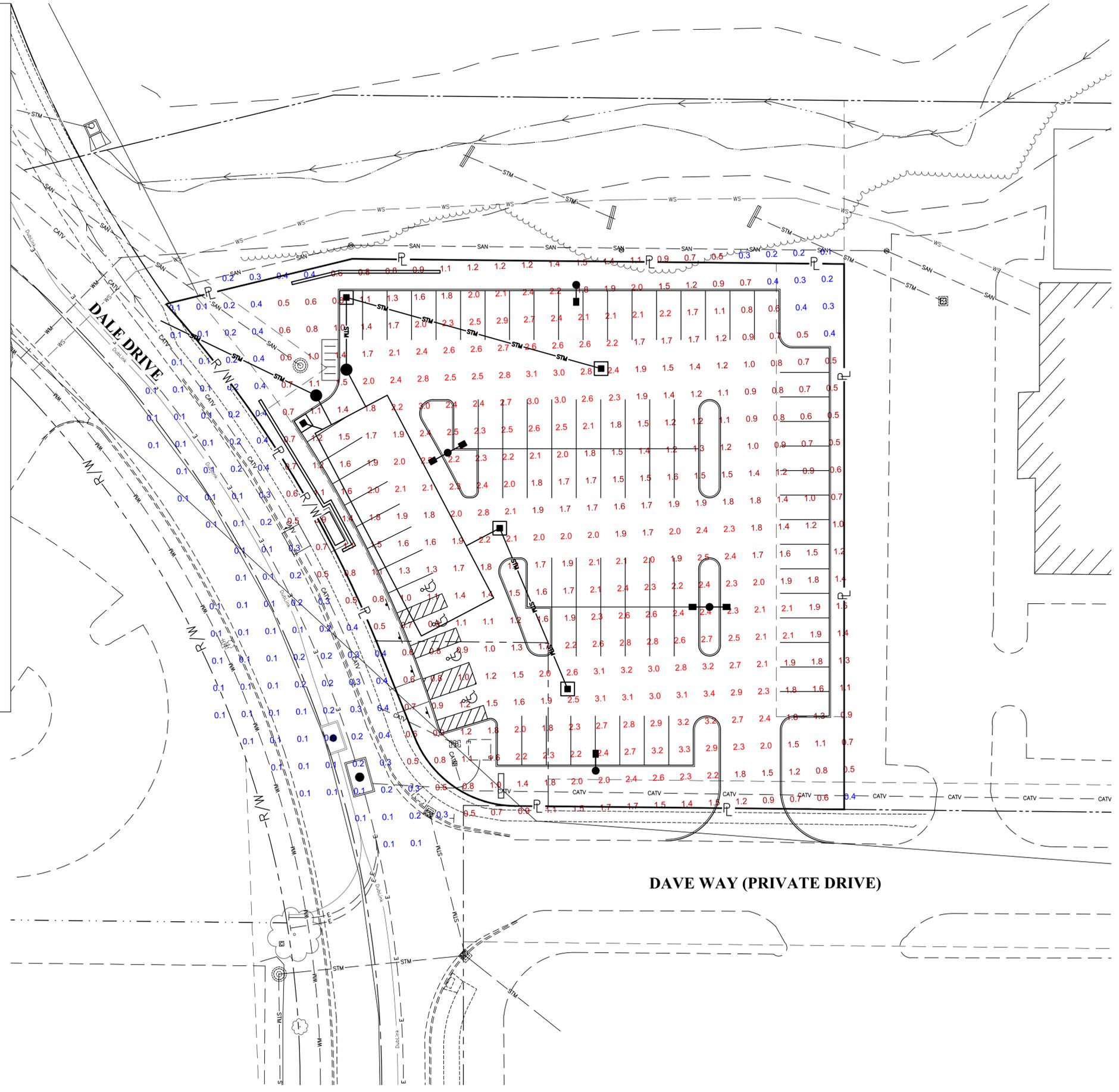


STANDARD DRAWING
LIGHT POLE
 SHEET 1 OF 1 DWG. NO. **SL-03**

LEGEND

- LIGHT POLE (SL-03, 20')
W/ (1)-LUMINAIRE (SL-01), ARE-EDG-2M-DA-06-E-UL-BZ-525-40K
- LIGHT POLE (SL-03, 20')
W/ (2)-LUMINAIRES (SL-01), ARE-EDG-5M-DA-06-E-UL-BZ-525-40K

PHOTOMETRIC RESULTS					
DESCRIPTION	AVE	MAX	MIN	MAX/MIN	AVE/MIN
PARKING LOT	1.9 fc	3.4 fc	0.5 fc	6.8:1	3.8:1



MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
 PRIVATE SITE IMPROVEMENT PLAN
 FOR
COTA PARK AND RIDE
 SITE PHOTOMETRICS PLAN



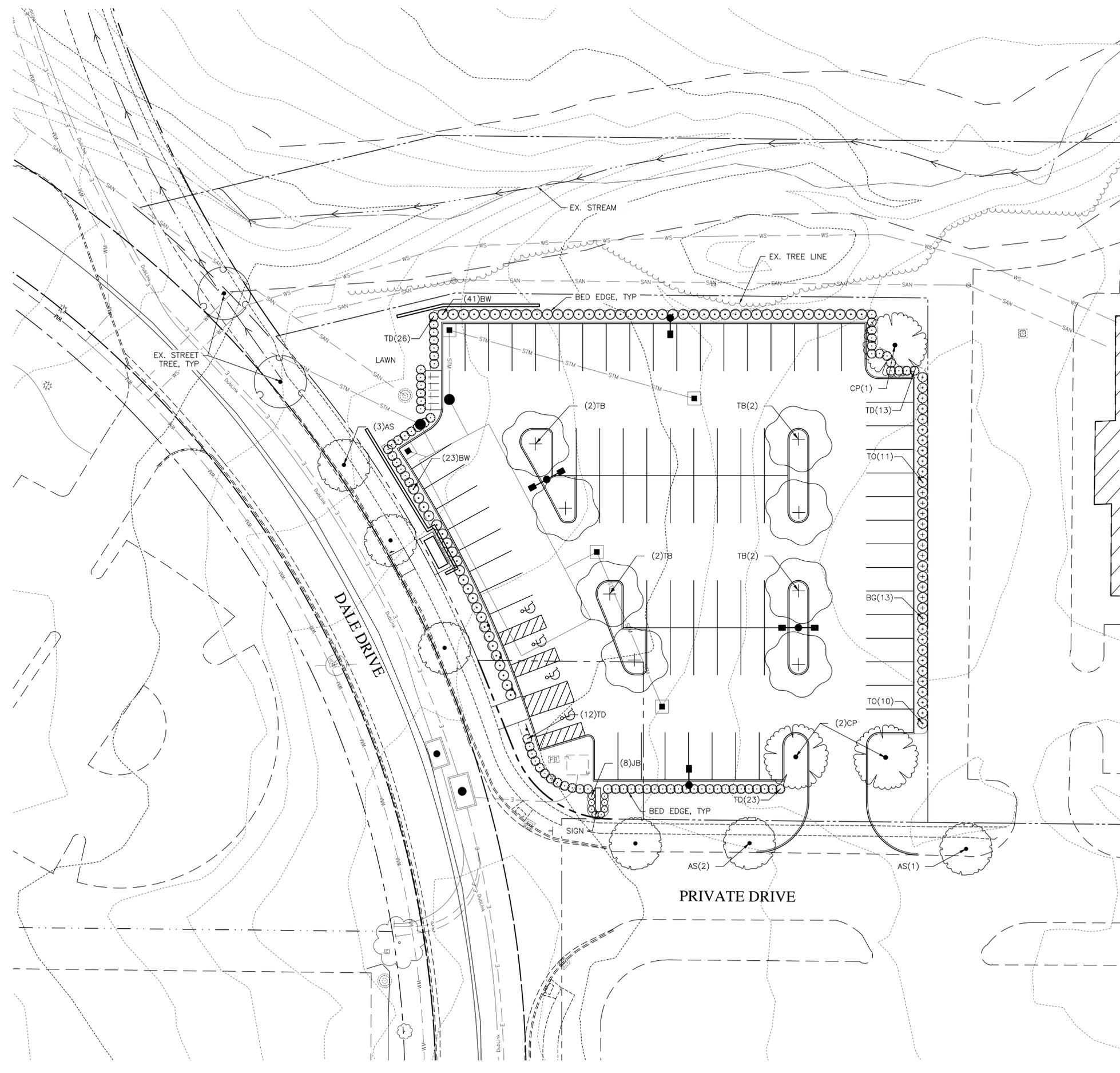
DATE
 June 1, 2015

SCALE
 1" = 40'

JOB NO.
 2014-0588

SHEET
 6/7

I:\2014\0588\Draw\04\Sheets\Private_Site_Improvement_Plan.dwg - Last Saved By: jbellier - 6/1/2015 5:38 PM - Last Printed By: Bellier, James - 6/1/2015 6:20 PM (No Xrefs)



LANDSCAPE CALCULATIONS

153.065(D)(3)(a,f)(2) – A MINIMUM OF 1 TREE PER 40 L.F. OF STREET FRONTAGE OR FRACTION THEREOF. TREES SHALL BE NO LESS THAN 2.5 CALIPER INCHES AT INSTALLATION.
 ±295 L.F. STREET FRONTAGE
 TREES REQUIRED: 7
 TREES PROVIDED: 7 (1 EXISTING, 6 PROPOSED)

153.065(D)(5)(b) – PERIMETER BUFFER NOT REQUIRED DUE TO ADJOINING SITE BEING LOCATED WITHIN THE BSD AS WELL. EVERGREEN HEDGE PROPOSED.

153.065(D)(5)(c)(1) – A MINIMUM OF 5% OF THE INTERIOR PARKING LOT AREA SHALL BE LANDSCAPED.
 TOTAL AREA = ±29,912 S.F.
 ±29,912 x .05 = ±1,500 S.F. LANDSCAPE REQUIRED
 ±2,115 S.F. LANDSCAPE PROVIDED

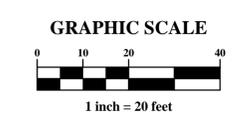
153.065(D)(5)(c)(2)(A) – ONE MEDIUM DECIDUOUS TREE SHALL BE PLANTED FOR EVERY 12 PARKING SPACES.
 TOTAL PARKING = 85 SPACES
 TREES REQUIRED = 7 TREES
 TREES PROVIDED = 11 TREES

153.065(D)(5)(d) – EVERGREEN HEDGE WITH MATURE HEIGHT OF 3' PROVIDED AS ALTERNATIVE STREET LANDSCAPING.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
AS	6	Acer saccharum	Sugar Maple	2.5" Cal.	B&B
CP	3	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2.5" Cal.	B&B
TB	8	Tilia americana 'Boulevard'	Boulevard Linden	2.5" Cal.	B&B

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
BW	64	Buxus microphylla japonica 'Winter Gem'	Winter Gem Boxwood	24" Ht.	B&B
BG	13	Buxus x 'Green Mountain'	Green Mountain Boxwood	24" Ht.	B&B
JB	8	Juniperus sabina 'Buffalo'	Buffalo Juniper	18" Spr.	Cont.
TD	74	Taxus x media 'Densiflora'	Dense Yew	24" Ht.	B&B
TO	21	Thuja occidentalis 'Woodwardii'	Woodward Globe Arborvitae	24" Ht.	B&B



PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

PLAN SET DATE
 June 1, 2015

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
 PRIVATE SITE IMPROVEMENT PLAN
 FOR
COTA PARK AND RIDE
 LANDSCAPE PLAN



DATE
 June 1, 2015

SCALE
 1" = 20'

JOB NO.
 2014-0588

SHEET
 7/7