Jobes Henderson & Associates
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Engineering | Surveying | Environmental

RECEIVED
OCT 22 2015
GC PLANNING COMMISSION

October 21, 2015

The City of Grove City
Development Department
Attn: Victoria Proehl
4035 Broadway
Grove City, OH 43123

RE: Comments for Prologis South Park; Application number 201509280070

Ms. Proehl,

Below is a summary of the comments received via email on October 14th, 2015 regarding the above mentioned project and their responses.

Development Department (Victoria Proehl, 614-277-3014)

1. Staff believes screening of the proposed use is important, due to the surrounding incompatible land uses on three (3) sides of the site. Based on existing topography, a ten (10) foot earthen mound should be installed along Marlane Drive with a 3:1 slope. In conjunction with this requirement, three staggered rows of six (6) foot high minimum evergreen trees at 20' maximum spacing and one 2" caliper minimum small class tree per 40 lineal feet of frontage are to be planted on the north side of the property line (along Marlane Drive). Please see Grove City Code Section 1136, Exhibit A-3 for more details. If a ten (10) foot 3:1 mound cannot be achieved, then the buildings should be reduced to accommodate such mounding. A six (6) foot high mound should be installed along the west side of the site, with the same tree installation as the north side. Please remove the fence and wall on all plan sheets. Similar mounding can be found on the east side of Gantz Road, north of Southpark Place.
   RESPONSE: A 10' high mound has been added along the north side of the property (along Marlane Drive). A 6' high mound has been added to the west side of the property for screening. The mound extends approximately 2/3 of the length of the property and provides screening for the adjacent residents. The limits along the west that a mound is not provided for are in the northwest corner of the property adjacent to the retention pond for the neighboring property.

2. An eight (8) foot bike path should be installed along the entire width of the site (along Marlane Drive) in accordance with the Grove City Parks and Recreation Department Comprehensive Plan (http://www.grovecityohio.gov/wp-content/uploads/2015/03/bikewayPlanFuture.pdf).
   RESPONSE: Prologis understands that as part of the city's future planning that Marlane Drive will be improved per the city's standard drawing C-GC-62, which would include a 8' bike path in the right-of-way along the Prologis frontage. The existing drainage along Marlane Drive creates difficulty with installing this requested bike path without the other roadway improvements already in place. Construction of the path along the project frontage is agreed to by Prologis, but it is much easier and more efficiently constructed as part of the roadway upgrade project. Prologis proposes that in lieu of installing the bike path at this time that Prologis and the city establish a cost per lineal foot for the path and Prologis will deposit the appropriate funds that they would be responsible for if constructing the path now into an escrow account for the city to use for this future construction.

59 Grant Street Newark, Ohio 43055 Tel 740.344.5451 Fax: 740.344.8659
www.jobeshenderson.com

3. Staff believes no curb cut should be permitted unless otherwise warranted by a traffic study showing the traffic generated will adversely impact the South Park Place/Gantz Road intersection and such cut could operate safely.
    a. In the event that the traffic study does not warrant the Marlane Drive curb cut, an emergency access curb cut would be supported by Staff. The emergency access cut would be located in the general proximity of the eastern most curb cut.
    b. In the event that a cut is warranted on Marlane Drive, the curb cut should be reconfigured to limit traffic to vehicles (no truck traffic permitted). The island detail on sheet C3.00 should be revised to show curbs and dimensions. Extend the median north towards Marlane Drive and widen the median to narrow the ingress/egress drive lanes to 12 feet. The median should be at least eight (8) feet wide with landscaping. Please include a decorative entry feature that would prevent trucks from accessing Marlane Drive. Submit all details of both the median and entry feature.

    RESPONSE: The curb cut at the center of the site to Marlane Drive has been eliminated. The curb cut at the eastern end of the site is to remain. That access will be signed as emergency access only and will provide the fire department and other emergency personnel access to the site.

4. The applicant signature is missing from the application. Resubmit the application with all applicable signatures.
    RESPONSE: The application has been resubmitted.

5. A project narrative describing the nature of the project should be submitted.
    RESPONSE: An updated project narrative has been submitted, see attached.

6. The City Project Number should be added to the title block.
    RESPONSE: The city project number has been added.

7. The current zoning of the property and adjacent parcels should be added to the plans.
    RESPONSE: The zoning has been added.

8. The correct signature block should be included on plans. This block should only have spaces for the following signatures: City Administrator, Service Director, Review for the City of Grove City and Jackson Township Fire Department.
    RESPONSE: The signature block has been revised.

9. Re-order the plan sheets by moving all SWPPP plans to the back of the packet and place the Landscape Plans after the Utility plans. Also, update the index of sheets to include all sheets and make sure every sheet has the correct scale listed.
    RESPONSE: The sheets have been moved, scales have been revised and the index of sheets updated.

10. Parking and building setbacks should be illustrated on all plan sheets. A table showing all required setbacks (building and parking for all four sides) should be included on the Master Site Plan.

	Buildings	Car Parking	Truck Parking
North	100'	25'	45'
South	6'	N/A	20'
East	100'	30'	N/A
West	100'	30'	N/A

RESPONSE: The table has been added.

11. Per Section 1135.12(l), parking is not permitted between the property line and the side setback next to residential districts. In accordance with the chart above, the west side setback is 100'. The submitted plans show parking within this 100' setback and would require a variance through the Board of Zoning Appeals.
RESPONSE: Prologis will pursue a variance of the setback requirements.

12. Show all lighting levels on the photometric plan to the property boundaries. Lighting levels to the east, north and west should go down to zero (0) to reduce impacts on inconsistent land uses.
RESPONSE: The lighting plan has been updated and resubmitted.

13. A parking table should be included on the Master Site Plan with a parking breakdown. Code requires one (1) parking space per two (2) employees.
RESPONSE: The requested information has been added.

14. A note should be added to the building elevations that all rooftop mechanicals will be screened on all sides by raising the building parapet.
RESPONSE: A note has been added to the building elevations.

15. A separate 8.5x11" materials sheet should be included, listing manufacturer, color, and material for all exterior finishes.
RESPONSE: A materials board has been submitted.

16. A material sample board should be submitted with samples of all proposed exterior finishes.
RESPONSE: A materials board with the information has been submitted.

Building Division (Laura Scott, 614-277-3086)

17. Provide more detail on the wall paks, including fixture detail.

18. Building height does not meet code and would require a variance through the Board of Zoning Appeals.
RESPONSE: Prologis will be pursuing a variance.

Urban Forestry (Jodee Lowe, 614-277-1103)

19. 1136.06(c): Standards for Off-Street Parking Facilities, Rear and Side Yards Adjacent Incompatible Use Districts- The setback for off-street car and truck parking facilities is determined by two development options for cars and a specific requirement for trucks is shown in Exhibit B-2. Truck parking on the north and vehicle parking on the west is incompatible with surrounding land uses. Staff believes the proposed 6' solid vinyl fence and plant material will not be an adequate solution to meet the city's code with respect to the incompatible parking facilities.
    a. Option A for cars requires a 20' minimum parking and/or drive aisle set-back with either a continuous 6' height wall or solid fence or a 90% opaque 5' height evergreen screen, or a combination thereof. In addition to the wall or fence, one 2" caliper small class tree, two 6' height evergreen trees and two 18" height shrubs are to be planted per each 40 lineal feet of property line.
    b. Option B for cars requires a 30' minimum parking and/or drive aisle setback with a continuous 4' height earthen mound. In addition to the mounding requirement a double staggered row of 6' height minimum evergreen trees at 20' maximum spacing and one 2" caliper minimum small class tree and two 18" height deciduous shrubs per each 40 lineal feet of property line are to be planted (on the west and east sides of the property).

RESPONSE: Landscaping has been revised.

20. 1136.06(d): Interior Vehicular Use Areas: There needs to be a 2" caliper tree planted in every island bed. Currently the vehicular parking spaces between the two buildings has 4 end islands without trees.
RESPONSE: Landscaping has been revised.

21. Be advised Code section 1136.07 requires additional landscaping for incompatible land uses. This code section requires 80% opaque screening in addition to the incompatible parking lot screening requirements as listed in Comment #18. Staff would be supportive of a deviation from this requirement if the ten (10) foot mound is installed in accordance with Comment #1 and meets the 80% opacity requirement. See Code section below.
    a. 1136.07: Landscape Buffer Relating to Uncomplimentary Land Uses and Zones-where it is determined that as a result of new developments, construction or reconstruction, uncomplimentary or incompatible land uses or zones are created, a continuous 80% opaque landscape hedge, solid fence, wall or earthen mound visual screen, IN ADDITION TO screening of vehicular use are provisions, shall be required. The determination of uncomplimentary or incompatible land uses or zones will be made using zoning classifications. The Planning commission will make the determination based on land uses.

    RESPONSE: The mounding has been added and the landscaping has been revised.

22. 1136.09 (a)(4): Light and Heavy Industry Districts- Monument signs will need to be set in a landscape bed that is a minimum 2' larger than the foundation of the sign on all sides with permanent shrubs. The initial height of the plants at installation needs to be 24".
RESPONSE: The owner will pursue approval for signage separately and will provide landscaping at that time.

23. 1136.09(d): Tree Planting Typical: drawings need to reflect the notes that state that 50% of the burlap and wire cage will be removed. Current plan states near the picture that 1/3 will be removed.
RESPONSE: Added.

Service Department (Cindi Fitzpatrick, 614-277-1110)

24. Comments will be forthcoming.

Engineering, EMH&T (Erik Meininger, P.E., 614-775-4806)

25. Developer shall provide a traffic study to evaluate traffic access to the site, estimated trips generated and the need to access Marlane Drive. In addition, this study should evaluate traffic distribution between Southpark Place and Marlane Drive, potential needs for roadway improvements along Marlane Drive, and general impacts to the local roads.
    a. The existing condition of Marlane Drive is narrow and in poor condition and the proposed improvements/traffic will impact this road. Based on information from the Traffic Study and recommendations from the City, the Developer shall make appropriate improvements to Marlane to ensure safe access to site and background/local traffic.

    RESPONSE: The curb cuts to Marlane Drive have been revised to a single access point that is designated for emergency vehicles only.

26. Developer shall provide screening/mounding along Marlane Drive to screen properties on the north side of Marlane from viewing the loading areas. It is requested that the Developer provide an exhibit which takes a cross section between building and Marlane Drive to demonstrate elevation and screening heights with respect to building

and loading dock elevations. This will be useful for the City, Commission and public understand visibility of this side of the building from the roadway.
RESPONSE: The mounding detailed in comment #1 has been provided along Marlane Drive. An exhibit has been provided as requested.

27. Developer shall clarify site circulation. It appears that the employee traffic will be comingling with the truck traffic to access the eastern and western parking areas.
RESPONSE: The employee traffic will have to cross the truck courts to access the parking on the eastern side of building 1 and the western side of building 2. The customers that Prologis typically serves are accustom to these types of situations and will have protocols in place for safety.

28. Developer shall provide additional access to Building 1 from central drive across from access to Building 2.
RESPONSE: An additional access has been added.

29. Parking spaces shall be 180 sf.
RESPONSE: The parking stalls have been revised to 9'x20'.

30. STORMWATER - It is noted that all final design calculations shall be provided for review with detailed engineering/construction plans (this is when the stormwater design will be finalized and approved by City). The intent on this submittal and review is to ensure that the Developer is making proper accommodations onsite to address stormwater quality and management. Detailed review will be concurrent with final site plans/construction plans.
RESPONSE: A stormwater report was submitted with the original submittal. Due to comment # 35 some re-design was necessary. Included in this submittal is the revised stormwater report. As previously requested, 2 copies are provided. Should any additional copies be needed please feel free to contact JHA and copies will be provided.

31. SANITARY - Proposed sanitary sewer (and requisite easements) shall be extended across the entirety of the property frontage along Marlane Drive and sized accordingly to pick up upstream/offsite drainage. See attached tributary map for the Marsh Run Trunk Sewer (GC3360). Extension shall include service wyes to facilitate future tie-ins for properties on the north size of Marlane Drive. Sizing of the sewer shall be appropriate with tributary area, detailed sanitary calculations will be required in conjunction with Construction Plan submittal.
    a. It is noted that the Developer will need to provide separate construction plans for public sanitary sewer extension along Marlane. This will allow the City to create appropriate record plan drawings and coordinate approvals of the plans with the various stakeholders (Grove City and City of Columbus).

RESPONSE: The sanitary has been extended the length of the property frontage and wyes have been shown stubbed off the mainline for future connection. Details regarding the design will be addressed in the construction plans.

32. RIGHT OF WAY - Existing right of way along Marlane appears to be 24' from centerline. Plans show a 60' RW total. Please clarify existing RW width. It is requested that the Developer provide the City with 35' of RW from Centerline of Marlane Drive (70' total RW Width) to support future roadway improvements consistent with a Collector Street C-GC-62. This will support two lane traffic (12' lanes) plus requisite drop lanes for entrances and sidepath (see Comment #2 above).
RESPONSE: The Right of way has been established based on deed information provided to JHA. Attached is a copy of the information used to locate the right of way shown. Should you have any additional questions regarding the existing right of way shown please contact Jeremy Van Ostran at 740-344-5451. Proposed right of way is being shown in the northwest corner to establish a minimum 35' right of way from the centerline of Marlane Drive where it does not currently exist.

33. WATER - It appears that a public water main will be extended partially through the site from Southpark Place. It will be required that this public water line (12-inch) be extended through the site, to Marlane Drive, and the appropriate easements provided. Additionally, the utility easement and RW along Marlane Drive should include consideration for future waterline extension along Marlane (which will complete looping of South Park Place water main) and facilitate extension of water service east along Marlane.
    a. *The City should request the Developer to provide funding for the waterline extension across their Marlane Drive frontage…their site is leaving a large gap that will need to be spanned in the future. Approx. 2100' x $75/lf = $150,000 for 12" WM to be completed by City in future.*
    b. It is noted that the Developer will need to provide separate construction plans for public water main extension through site. This will allow the City to create appropriate record plan drawings and coordainate approvals of the plans with the various stakeholders (Jackson Township Fire Department, Grove City, and City of Columbus).

    RESPONSE: The water has been up sized to a 12 inch and shown extending through the site and into the right of way of Marlane Drive for future connection.

34. WATER SERVICE - All water services and taps will be required to be reviewed and approved by the City of Columbus, Division of Water.
    RESPONSE: JHA will coordinate with the City of Columbus for review and approval.

35. POND DESIGN – Pond shall be engineered consistent with the City's Stormwater Design Manual (Section 6.0 Wet Pond Design Standards). Additionally, due to the prominence of the pond, higher design features should be incorporated, similar to the design of the Etna, Ohio Prologis Facility.
    a. City is concern in areas of pond where depth is less than 8'. Typically a pond design shall be a minimum of 8' deep with at least 25% achieving a depth of at least 10'. The shallow area to the north side of the pond should be regraded to all additional depth to prevent the growth of cattails and other maintenance issues.
    b. All headwalls shall be per GC Standard Drawings
    c. Safety shelf is to be 2' minimum unless the developer is planning wetland planting within the shelf area. Please provide details on wetland shelf planting if Developer choose to go less than 2'.
    d. All exposed headwalls, endwalls, catchbasins, etc. shall include stone facing as per 6.3.f
    e. Fencing barrier shall be provided between parking area and pond area due to the drop off and lack of recovery area. Most especially in area where access intersects from west. It appears as if a fence is provided along the eastern property line. Developer shall provide details on this feature.
    f. The proposed normal pool elevation (NPE) is up to 11'-13' below the adjacent roadway and property lines. The City is concerned with this excessive freeboard and the aesthetics of this pond. The City typically requires 5' between the adjacent areas and the NPE. The developer shall evaluate opportunities reduce this freeboard and provide aesthetic treatments where applicable.
    g. Pond shall include fountains and aerators as per 6.7.4
    h. Pond design requires an 8' path to allow this site feature to be an amenity to the property/workers. Please incorporate trail into site design.

    RESPONSE: JHA has added notes/call outs in the plans to address b & g. In lieu of stone Prologis would propose using concrete forms and color concrete to create an ascetically pleasing headwall but alleviate the maintenance issues that can occur with the stone veneer that is requested in the storm water manual. The depth from the pavement elevation to the normal pool is significant and was such due to the preservation of the treeline in the northeast corner of the site and due to the elevation difference between Marlane Drive and the height of the pond. The pond elevation has been revised and elevations are called out in the grading plan sheets.

36. On Sheet C4.04 there are some unspecified lines integrated with the contours for the pond. Please provide legend for these

RESPONSE: The lines have been removed.

Grove City Division of Police (Jeff Pearson, 614-277-1709)

37. No truck traffic on Marlane Drive.
    RESPONSE: Curb cuts have been eliminated for public access.

38. Limit curb cuts on Marlane Drive to emergency access only.
    RESPONSE: The curb cut at the east end of the site has been revised to emergency access only. Signage, a break away chain and posts with reflectors will be added to aid in the ease of identifying the pervious pavers.

Jackson Township Fire Department (Tammy Green, 614-945-5043)

39. More detail on the underground fire loop is needed to show:
    a. Location of the FDC – shall be within 75 feet of a public fire hydrant – *JTFD Addendum.*
    b. Where the fire loop feeds the building and sprinkler risers.
    c. Where there needs to be sectional valves with PIV's in the fire loop – *NEPA 24.*

    RESPONSE: Remote FDCs for each building have been located in islands facing the middle drive. A public hydrant has also been placed within 75' as required. The fire risers for the buildings have schematically been shown as requested as have valves. Once final design commences the plumbing contractor will size and locate all fire risers which will be updated on a final set of construction plans along with the locations for section valves and resubmitted for your review and comment.

40. Pages C3.01 show "No Truck Access" signs to Marlane Drive – Please show maneuverability for emergency responder vehicles.
    RESPONSE: The curb cuts on Marlane have been revised to a single cut for emergency access only.

41. A current water flow test should be done on South Park to verify fire flow requirements for these buildings.
    RESPONSE: The design company will contact the fire department to schedule a flow test once final design has commenced.

Enclosed with this letter, as requested by the city, are 20 copies of the plans, line of sight exhibit, building elevations, easement documentation, project summary, response letter, & building materials list. Also included in this submittal is a materials board, signed application and two (2) copies of the revised stormwater report.

Please feel free to contact myself should you have any questions or additional comments.

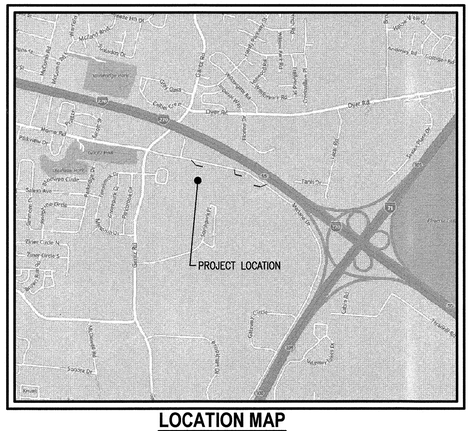
Sincerely,
Jobes Henderson & Associates, Inc.

Amanda E Spencer
Project Manager

DEVELOPMENT PLANS FOR:

PROLOGIS SOUTH PARK

GROVE CITY, FRANKLIN COUNTY, OHIO



LOCATION MAP
NOT TO SCALE

OHIO Utilities Protection SERVICE 811 or 1-800-362-2764 Call Before You Dig

Oil & Gas Producers (OGPUPS) Underground Protection Service Call Before You Dig 1-800-925-0988 Ohio's Oil & Gas Industry is Committed to Safety!

INDEX OF SHEETS

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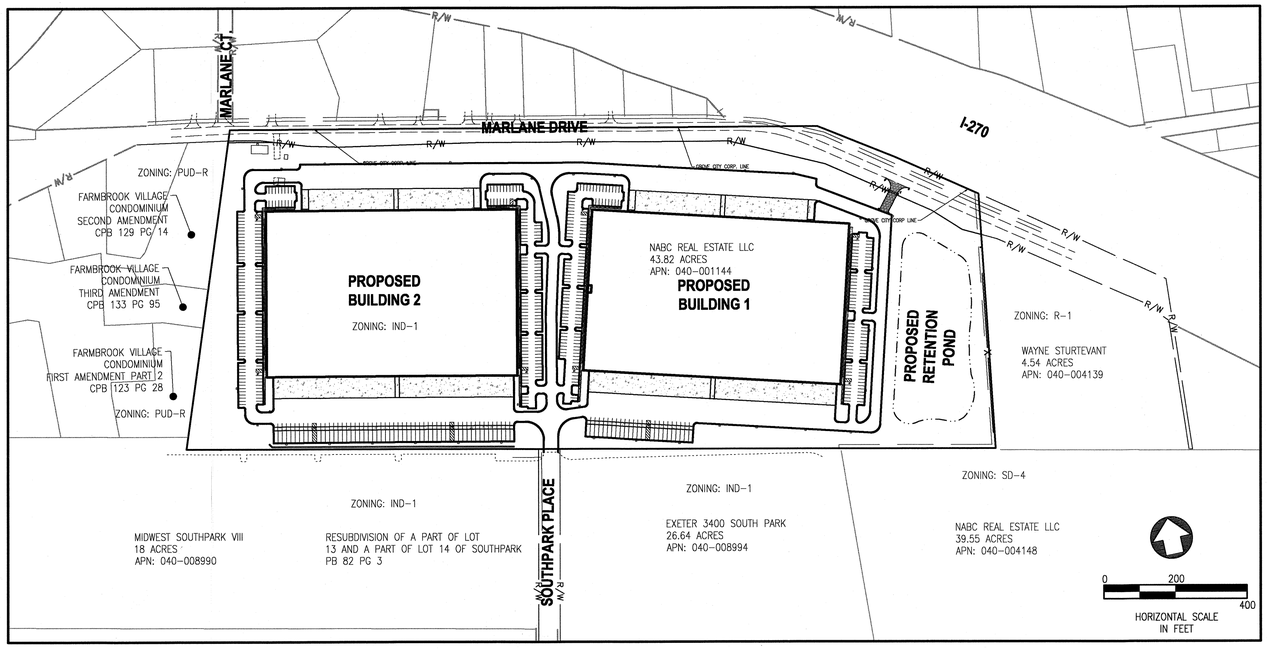
SITE LIGHTING PLAN	P-SL-1



INDEX MAP
1"=200'

APPROVALS

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN ENGINEER PREPARING THE PLANS.

CITY ADMINISTRATOR — DATE
CITY OF GROVE CITY, OHIO

DIRECTOR OF PUBLIC SERVICE — DATE
CITY OF GROVE CITY, OHIO

REVIEWED FOR THE CITY — DATE
OF GROVE CITY, OHIO

CHIEF — DATE
JACKSON TOWNSHIP FIRE DEPT.

PLANS PREPARED BY

Jobes Henderson & ASSOCIATES

STATE OF OHIO JAMES G. ROBERTS E-52927 REGISTERED PROFESSIONAL ENGINEER

JAMES G ROBERTS, PE 52927 — DATE

PROJECT OWNER

PROLOGIS
8102 Zionsville Road | Indianapolis, IN 46268

THE STANDARD DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF

GROVE CITY STANDARD CONSTRUCTION DRAWINGS				COLUMBUS CITY STANDARD CONSTRUCTION DRAWINGS			
C-GC-01	C-GC-24	C-GC-46A	C-GC-77	----	----	----	----
C-GC-09	C-GC-26	C-GC-58	C-GC-80				
C-GC-11	C-GC-31	C-GC-70A	C-GC-81				
C-GC-12	C-GC-32	C-GC-71A	C-GC-83				
C-GC-16	C-GC-37	C-GC-72A	C-GC-90				
C-GC-20	C-GC-42	C-GC-73A					
C-GC-22	C-GC-43DW	C-GC-74					
C-GC-23	C-GC-44	C-GC-75A					

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

TITLE SHEET — **C0.00**

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 7:12 AM J:\2015\15037 prologis capital park south\01\dwg\sheets\15037_title sheet.dwg dwconner

SURVEYOR NOTES:

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.

DATE OF FIELD WORK: 9/16/15
EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON.

SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

BASIS OF BEARINGS:

THE BEARINGS SHOWN HEREIN ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM. SOUTH SYSTEM, NAD83, GEOID12A.

BENCHMARKS:

AS PER THE TOPOGRAPHIC SURVEY PREPARED BY JOBES HENDERSON & ASSOCIATES THE CONTRACTOR AND/OR HIS SURVEYOR SHALL BE RESPONSIBLE TO CROSS CHECK ALL CONTROL FOR DISTURBANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

BENCHMARK #1 - "X" IN TOP CENTER OF CONCRETE CULVERT (SEE MAP FOR LOCATION)
ELEVATION = 762.10

BENCHMARK #2 - "X" IN TOP CENTER OF CONCRETE CULVERT (SEE MAP FOR LOCATION)
ELEVATION = 763.58

CONTROL POINTS

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLER8 UNIT VRS CORRECTION ON OHIO STATE PLANE SOUTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

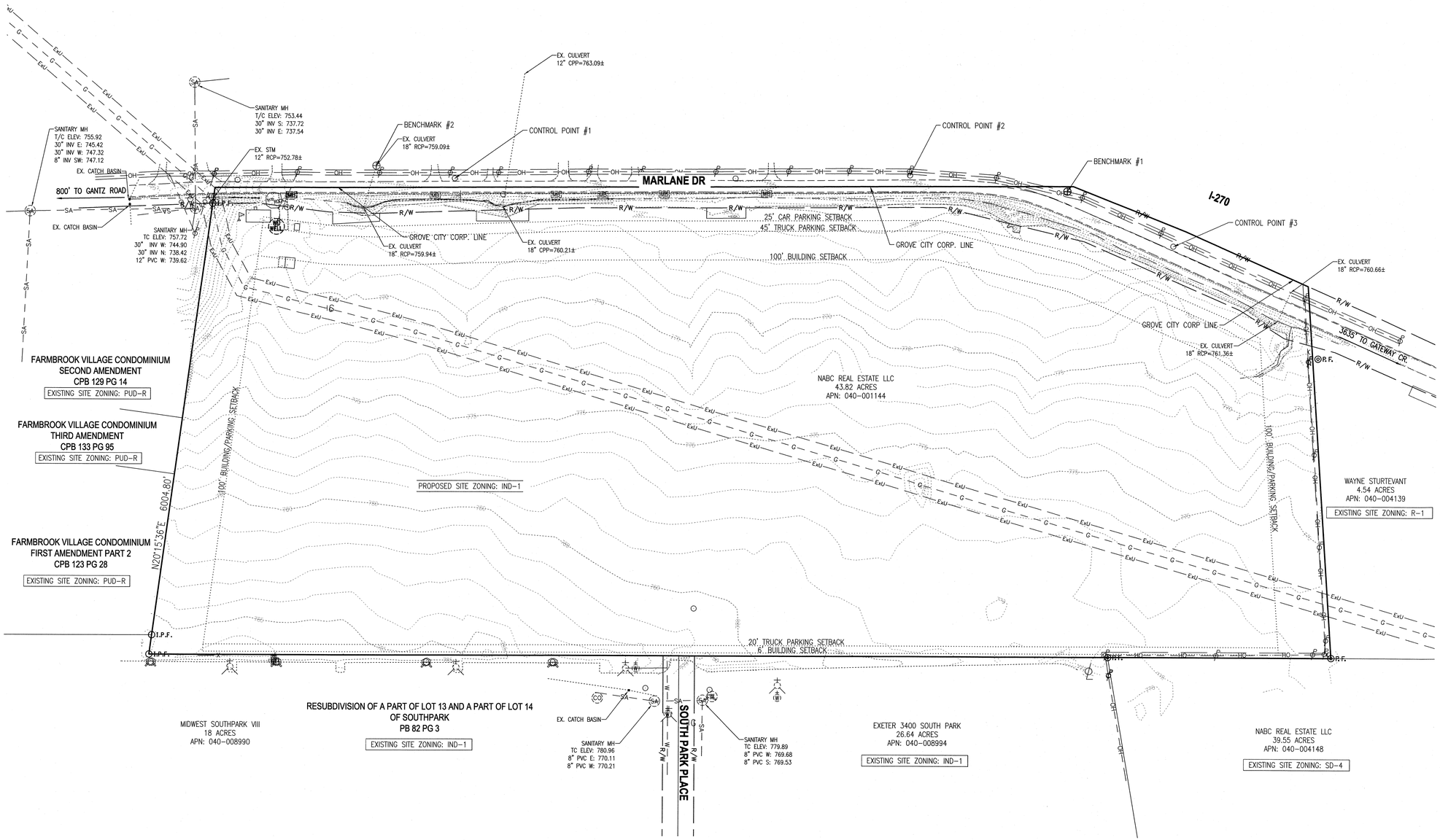
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	691532.4630	1813601.7890	766.23	5/8" REBAR SET – SEE MAP FOR LOCATION
2	691352.0930	1814453.0890	762.74	5/8" REBAR SET – SEE MAP FOR LOCATION
3	691112.0750	1814916.2090	762.40	5/8" REBAR SET – SEE MAP FOR LOCATION
4				

FIRM COMMUNITY PANEL No.: 39049C0318K
FLOOD ZONE: X
EFFECTIVE DATE: 06/17/2008

LEGEND

- AC UNIT
- CABLE TV PEDESTAL
- CATCH BASIN
- CURB INLET
- ELECTRIC BOX
- ELECTRIC METER
- FIRE DEPT. CONNECTION
- FIRE HYDRANT
- GAS LINE MARKER
- GAS METER
- GAS VALVE (MAIN)
- GAS VALVE (SERVICE)
- GUY WIRE
- LIGHT POLE
- POWER POLE
- POWER/LIGHT POLE
- POWER/TELEPHONE POLE
- SANITARY CLEANOUT
- SANITARY MANHOLE
- SIGN
- STORM MANHOLE
- TELEPHONE MANHOLE
- TELEPHOLE PEDESTAL
- TELEPHONE POLE
- WATER METER
- WATER VALVE (MAIN)
- WATER VALVE (SERVICE)
- TEL UTILITY MARKER
- WYE POLE
- YARD DRAIN
- YARD LIGHT
- D.H.F. DRILL HOLE FND.
- GOV. DISK FND.
- I.P.F. IRON PIN FND.
- I.P.S. IRON PIN SET
- P.F. IRON PIPE FND.
- P.S. IRON PIPE SET
- M.N.F. MAG NAIL FND.
- CONC. MON. FND.
- MON. BOX FND.
- MINE SPIKE FND.
- P.K.F. P.K. NAIL FND.
- P.K.S. P.K. NAIL SET
- RR SPIKE FND.
- SECTION COR. FND.
- STONE FND.
- T.B.F. T-BAR FND.

- UGND. CABLE
- UGND. COMMUN.
- UGND. ELECTRIC
- UGND. FIBER OPTIC
- UGND. GAS
- UGND. SANITARY SEWER
- UGND. SANITARY SERVICE
- UGND. STORM SEWER
- UGND. WATER
- UGND. WATER SERVICE
- OVERHEAD LINES
- FENCE
- PROPERTY LINE
- EX. AERIAL ESMT.
- EX. CHANNEL ESMT.
- EX. CONSERVATION ESMT.
- EX. DRAINAGE ESMT.
- EX. FLOWAGE ESMT.
- EX. LIMITED ACCESS ESMT.
- EX. RAILROAD ESMNT.
- EX. STD. HIGHWAY ESMT.
- EX. SLOPE ESMT.
- EX. UTILITY ESMT.
- EX. RIGHT-OF-WAY
- EX. LIMITED ACCESS RIGHT-OF-WAY



CERTIFICATION:

This is to certify that the premises covered by this plan have been surveyed, that the plan is correct, and that the monuments shown on the plat will be set in accordance with Section 1101.051 of the Ohio Revised Code.

JEREMY L. VANOSTRAN P.S. 8283

STATE OF OHIO — JEREMY LEWIS VAN OSTRAN 8283 REGISTERED SURVEYOR

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HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

EXISTING SITE CONDITIONS — C0.01

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

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GENERAL NOTES

SPECIFICATIONS:

THE CURRENT CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION (ODOT) 'CONSTRUCTION AND MATERIAL SPECIFICATIONS' (CMSC AND ODOT CMS RESPECTIVELY) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF GROVE CITY, OHIO, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY) UNLESS DIRECTED OTHERWISE BY THE CITY.

GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS.

BENCH MARKS:

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCH MARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE

SAFETY REQUIREMENTS:

THE CONTRACTOR AND ANY AND ALL SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING ALL OSHA RULES AND REGULATIONS.

PERMITS:

THE CONTRACTOR OR DEVELOPER SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE IMPROVEMENTS SHOWN ON THE PLANS.

NOTIFICATION:

THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS IN ADVANCE (HOLIDAYS AND WEEKENDS EXCLUDED) OF THE ANTICIPATED START OF WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE CITY. WORK SHALL NOT COMMENCE UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD. THE CONTRACTOR OR DEVELOPER SHALL SUPPLY THREE (3) COPIES OF THE APPROVED CONSTRUCTION PLANS, ALONG WITH ONE (1) COMPLETE SET OF MYLARS AND ONE (1) ELECTRONIC COPY OF ALL PLAN SHEETS (.TIF FORMAT), TO THE CITY, AND ONE (1) COPY OF THE PLANS TO THE DIRECTOR OF PUBLIC SERVICE ONE (1) WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL NOTIFY ALL ADJACENT LANDOWNERS A MINIMUM OF ONE (1) WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR A SUGGESTED FORMAT FOR THE NOTICE.

THE CONTRACTOR MUST PROVIDE PRE-NOTIFICATION OF WORK NO LESS THAN FORTY-EIGHT (48) HOURS PRIOR TO WORK BEING PERFORMED THAT WILL HAVE AN EFFECT ON RESIDENTS AND/OR BUSINESSES. THE PRE-NOTIFICATION MUST BE IN WRITING AND IT MUST INCLUDE: (1) CONTRACTOR NAME AND 24-HOUR PHONE NUMBER; (2) A DESCRIPTION OF WORK BEING PERFORMED; (3) A LIST OF RESTRICTIONS ON THE AFFECTED RESIDENTS AND/OR BUSINESSES; (4) INSTRUCTIONS TO AFFECTED RESIDENTS AND/OR BUSINESSES. THE WRITTEN NOTIFICATION SHALL BE SUBMITTED TO THE CITY FOR APPROVAL AT LEAST SEVEN (7) DAYS PRIOR TO WORK BEGINNING.

THE CONTRACTOR SHALL ALSO POST 'NO PARKING' SIGNS IN APPROPRIATE AREAS NO LESS THAN 48 HOURS IN ADVANCE OF ANY PARKING RESTRICTION. THE CITY OF GROVE CITY WILL PRINT AND PROVIDE PRE-APPROVED 'NO PARKING' SIGNS ON CARDSTOCK FOR THE CONTRACTOR'S USE. THE CONTRACTOR MUST INSERT THE DAYS AND TIMES OF THE PROPOSED PARKING RESTRICTION, THE REASON FOR THE RESTRICTION, AND THE CONTRACTOR'S CONTACT INFORMATION ON THE CITY-PROVIDED CARDSTOCK SIGN USING BLACK PERMANENT MARKER. THE CONTRACTOR MUST ALSO SUPPLY STAKES AND WEATHER RESISTANT SLEEVES FOR INSTALLATION OF SIGNS AND TO PROTECT THE SIGNS FROM DAMAGE CAUSED BY WEATHER. THE WOODEN STAKES FOR 'NO PARKING' SIGNS SHALL BE 1-IN. X 2-IN. X 36-IN. THE WEATHER PROOF SLEEVES SHALL BE 9-IN. X 12-IN. STAPLES® HEAVYWEIGHT JOB TICKET HOLDERS (STAPLES ITEM NO. 812754) OR APPROVED EQUAL. THE WEATHER RESISTANT SLEEVE WITH SIGN SHALL BE FIXED TO THE STAKE USING HEAVY-DUTY STAPLES. 'NO PARKING' SIGNS MUST BE INSTALLED, MAINTAINED, REVISED (IF DELAYS CAUSE AN ADJUSTMENT IN PARKING RESTRICTION), AND REMOVED BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE PAID FOR RESIDENT/BUSINESS NOTIFICATION OR POSTING REQUIRED SIGNAGE.

AS SET FORTH HEREIN, THE CONTRACTOR SHALL PROVIDE ALL NOTICES REQUIRED UNDER THE CONTRACT DOCUMENTS AND SPECIFICATIONS STRICTLY IN THE MANNER PRESCRIBE THEREIN. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE CITY AND ITS OFFICERS, EMPLOYEES, REPRESENTATIVES, AND AGENTS (HEREINAFTER COLLECTIVELY REFERRED TO AS THE 'CITY') AGAINST ANY AND ALL CLAIMS, ACTIONS, DAMAGES, COSTS, AND LEGAL LIABILITY OF EVERY NAME AND NATURE THAT THE CITY MAY SUSTAIN, INCUR OR BE REQUIRED TO PAY (INCLUDING, BUT NOT LIMITED TO, CONSULTANT AND ATTORNEY'S FEES, DISBURSEMENTS, COSTS OR OTHER EXPENSES) ARISING OUT OF OR IN CONNECTION WITH THE CONTRACTOR'S FAILURE TO STRICTLY COMPLY WITH THE NOTICE PROVISIONS IMPOSED UNDER THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

THE CITY MAY RETAIN ANY AMOUNTS DUE OR THAT MAY BECOME DUE TO THE CONTRACTOR AS MAY BE NECESSARY TO SATISFY ANY CLAIM FOR INDEMNIFICATION UNDER THIS PROVISION. THE CONTRACTOR'S OBLIGATION UNDER THIS SECTION SHALL NOT BE DEEMED WAIVED BY THE FAILURE OF THE CITY TO RETAIN IN WHOLE OR ANY PART OF SUCH MONIES DUE TO THE CONTRACTOR, NOR SHALL SUCH SUIT, ACTION, DAMAGES AND/OR COSTS HAVE TO HAVE BEEN RESOLVED OR DETERMINED PRIOR TO RELEASE OF ANY MONIES TO THE CONTRACTOR UNDER THE CONTRACT, NOR SHALL SUCH OBLIGATION BE DEEMED LIMITED OR DISCHARGED BY THE PROCUREMENT OF ANY INSURANCE FOR LIABILITY FOR DAMAGES IMPOSED BY LAW UPON THE CONTRACTOR, ITS SUBCONTRACTORS OR SUPPLIERS, OR THE CITY.

INSPECTION:

THE CITY OF GROVE CITY WILL PROVIDE ALL CONSTRUCTION INSPECTION FOR THIS PROJECT. NO WORK SHALL COMMENCE UNTIL ARRANGEMENTS (DEVELOPMENT AGREEMENT) HAVE BEEN MADE WITH THE CITY ENGINEER AND DIRECTOR OF PUBLIC SERVICE FOR INSPECTION SERVICES AND PAYMENT OF THE INSPECTION FEE DEPOSIT. THE DEVELOPMENT AGREEMENT SHALL BE COMPLETED AND EXECUTED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

UTILITIES:

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 AS REQUIRED BY SECTION 153.64 OR SECTION 3781.27 OF THE OHIO REVISED CODE. THE CITY OF GROVE CITY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER, THE CITY AND THE DESIGN ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362- 2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING, WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

IF THERE ARE MARKERS OR OTHER APPARENT PHYSICAL EVIDENCE IN OR NEAR THE PROJECT AREA THAT MAY INDICATE THE EXISTENCE OF UNDERGROUND PETROLEUM OR NATURAL GAS PIPELINES, THE CONTRACTOR SHALL ADDITIONALLY CONTACT THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS) AT 800-925-0988, TOLL FREE. SAID NOTIFICATION SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE FOLLOWING UTILITIES ARE KNOWN OR CAN BE EXPECTED TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT.

UTILITY	OWNER	TELEPHONE
WATER, SANITARY, STORM AND STREET LIGHTING FACILITIES	CITY OF GROVE CITY 4035 BROADWAY GROVE CITY, OHIO 43123	614-277-1100
POWER	AEP 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 CONTACT: CALVIN JOHNSON	614-883-7958 800-672-2231
GAS	NORTHEAST OHIO NATURAL GAS CORP. 5640 LANCASTER-NEWARK ROAD PLEASANTVILLE, OHIO 43148 CONTACT: MARK CALLAHAN	740-862-3300 mcallahan@egas.net

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781.25 THROUGH 3781.30 OF THE OHIO REVISED CODE.

ALL PRIVATE UTILITY RELOCATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.

EXPOSED EXISTING UTILITY:

WHERE POTENTIAL GRADE AND ALIGNMENT CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, OR AS SPECIFICALLY CALLED OUT ON THE PLANS, THE CONTRACTOR SHALL EXPOSE UTILITIES OR STRUCTURES SUFFICIENTLY IN ADVANCE OF LAYING PIPE FOR THE DESIGN ENGINEER TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. ANY DISCREPANCY WITH THE PLANS SHALL BE COORDINATED WITH THE CITY TO ENSURE THAT THERE ARE NO CONSTRUCTION OR CONFLICT ISSUES ASSOCIATED WITH SAID DISCREPANCY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS IF A SPECIFIC BID ITEM IS NOT PROVIDED IN THE ESTIMATE OF QUANTITIES.

CONFLICTS:

IN ALL CONFLICTS IN ELEVATION BETWEEN THE WATER MAIN AND GRAVITY SEWERS, THE WATER MAIN SHALL BE LOWERED DURING CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE CITY

HOUSE SERVICE LINES:

THE CONTRACTOR SHALL ASSUME THAT EACH HOUSE HAS AT LEAST ONE (1) WATER AND ONE (1) GAS SERVICE LINE UNLESS MORE ARE MARKED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND SUPPORT THESE SERVICE LINES. COST FOR LOCATION AND SUPPORT SHALL BE INCLUDED IN THE COST BID FOR VARIOUS ITEMS. WHERE SERVICE LINES ARE CUT OR BROKEN, THE LINES ARE TO BE RESTORED TO THE STANDARDS OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE WITHIN 12 HOURS OF THE CUTTING OR BREAKING OF THE SERVICE LINE.

SITE VISIT:

THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL EFFECTS UPON THE SCOPE OF WORK.

RIGHTS-OF-WAY:

IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF- WAY, INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS-OF-ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT UNLESS SPECIFIC PROVISION IS MADE IN THE CONTRACT SPECIFICATIONS FOR SUCH COST UNDER SPECIFIC ITEMS OF THE CONTRACT.

EASEMENTS:

A DRAFT COPY OF ANY REQUIRED EASEMENTS SHALL BE SUBMITTED TO THE CITY OF GROVE CITY FOR REVIEW PRIOR TO EXECUTION BY THE PROPERTY OWNER. APPROVAL OF THIS PLAN IS CONTINGENT UPON ALL EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE WORK BEING SECURED AND SUBMITTED TO THE CITY OF GROVE CITY FOR RECORDING PRIOR TO COMMENCEMENT OF THE WORK, AND NO WORK WHICH REQUIRES AN EASEMENT WILL BE ALLOWED TO PROCEED UNTIL THIS HAS BEEN DONE.

WORK LIMITS:

THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL PERFORMED WORK AND ALL EQUIPMENT, MATERIALS, VEHICLES, ETC., USED TO COMPLETE THE WORK WITHIN THE RIGHTS-OF-WAY OF THE STREETS, ROADWAYS, PERMANENT EASEMENTS AND THE PROPERTY BOUNDARIES OF THE PROJECT IMPROVEMENTS, AS SHOWN ON THESE PLANS.

THE CONTRACTOR IS RESPONSIBLE FOR COST OF RESTORATION FOR ANY AREA OUTSIDE OF THE RIGHT-OF-WAY, PERMANENT EASEMENT OR PROJECT PROPERTY BOUNDARIES TO FORMER CONDITION OR BETTER AND TO THE SATISFACTION OF THE PROPERTY OWNER AND THE CITY.

CONTRACT WORK PERFORMED BY THE CITY:

IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS OR OTHER WARNING OR PROTECTIVE DEVICES) REQUIRED OF THE CONTRACTOR BY THIS CONTRACT BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK, THE CONTRACTOR/DEVELOPER SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK.

CONVENIENCE FACILITIES:

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKMEN AND INSPECTORS FOR THE DURATION OF THE WORK. COST SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

NON-RUBBER TIRED VEHICLES:

NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON CITY STREETS, EXISTING PRIVATE ROADWAYS OR PARKING LOTS. EXCEPTIONS MAY BE GRANTED BY THE CITY OF GROVE CITY, FOR PUBLIC ROADWAYS ONLY, WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING, AND ANY DAMAGE MUST BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF GROVE CITY.

SIGNS, MAILBOXES, FENCES, ETC.:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SIGNS, MAILBOXES, FENCES, GUARDRAIL, SHRUBS, PROPERTY, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT, TO THEIR ORIGINAL OR BETTER CONDITION AND LOCATION AND TO THE SATISFACTION OF THE PROPERTY OWNER AND THE CITY OF GROVE CITY. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

PRUNING:

BRANCHES OR GROWTH WHICH INTERFERES WITH THE FREE CONSTRUCTION OF THE PROJECT MAY BE REMOVED FROM TREES/BUSHES THAT ARE TO BE SAVED BY THE USE OF PRUNING TOOLS WITH PRIOR APPROVAL FROM THE CITY'S URBAN FORESTER. ALL PRUNING TOOLS USED AND METHODS EMPLOYED SHALL MEET THE APPROVAL OF THE CITY'S URBAN FORESTER. THE BRANCHES SHALL BE REMOVED WITH A GOOD CLEAN CUT MADE FLUSH WITH THE PARENT TRUNK OR, IF HAVING A GOOD HEALTHY LATERAL BRANCH, THE CUT SHALL BE A GOOD CLEAN SLANTING CUT CLOSE TO AND BEYOND THE HEALTHY BRANCH. ALL PRUNING CUTS SHALL BE PAINTED WITH AN ACCEPTED PRUNING PRESERVATIVE. THE COST OF ALL WORK AND EXPENSES CONNECTED WITH TREE PRUNING SHALL BE INCLUDED IN THE PRICE BID FOR CMSC ITEM 201, CLEARING AND GRUBBING. NO EXTRA PAYMENT SHALL BE MADE.

TREES DAMAGED OR DESTROYED THAT WERE NOT DESIGNATED FOR REMOVAL OR APPROVED BY THE CITY FOR REMOVAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

DEWATERING:

THE CONTRACTOR IS SOLELY RESPONSIBLE TO THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) FOR REGISTRY, MAINTENANCE, AND ABANDONMENT OF ANY WITHDRAWAL DEVICES USED IN THE CONSTRUCTION OF THIS PROJECT.

INSTALLATION OF ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF LOWERING THE GROUNDWATER LEVEL TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR AS DIRECTED BY THE DIRECTOR OR HIS REPRESENTATIVES.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE AND FILE A WELL LOG AND A DRILLING REPORT FORM WITH ODNR, DIVISION OF WATER, WITHIN 30 DAYS OF THE COMPLETION OF INSTALLATION OF ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUNDWATER FROM AN AQUIFER, IN ACCORDANCE WITH SECTIONS 1521.01 AND 1521.05 OF THE OHIO REVISED CODE. IN ADDITION, ANY SUCH FACILITY THAT HAS A CAPACITY TO WITHDRAW WATERS OF THE STATE IN AN AMOUNT GREATER THAN 100,000 GALLONS PER DAY FROM ALL SOURCES SHALL BE REGISTERED BY THE CONTRACTOR WITH THE CHIEF OF THE ODNR, DIVISION OF WATER, WITHIN THREE (3) MONTHS OF THE COMPLETION OF THE FACILITY IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. COPIES OF THE NECESSARY PAPERWORK CAN BE OBTAINED AT ODNR, DIVISION OF WATER, FOUNTAIN SQUARE, COLUMBUS, OH, 43224-1387 – PHONE: (614) 265-6717.

THE CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY, ADEQUATE TO DEWATER THE TRENCH, SHOULD WATER BE ENCOUNTERED. THE TRENCH SHALL BE SUFFICIENTLY DEWATERED SO THAT THE PLACEMENT OF BEDDING AND THE LAYING AND JOINING OF PIPE IS MADE ON FIRM, DRY GROUND. IF DEWATERING CANNOT PRODUCE ACCEPTABLE SUBGRADE, AND ONLY AS DIRECTED BY THE ENGINEER, UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED BY CMSC ITEM 906, STONE FOUNDATION.

THE CONTRACTOR SHALL CONVEY ALL TRENCH WATER TO A NATURAL DRAINAGE CHANNEL OR STORM SEWER WITHOUT DAMAGE TO PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE TO PLACE AND MAINTAIN THE NECESSARY SEDIMENT AND EROSION CONTROL MEASURES TO FILTER THE DEWATERING DISCHARGE AND TO PREVENT EROSION AT THE DISCHARGE LOCATION. COST FOR THE ABOVE SHALL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS IMPROVEMENT ITEMS.

THE COST OF ANY DEWATERING OPERATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT IMPROVEMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS.

REPLACEMENT OF DRAIN TILES AND STORM SEWERS:

ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED, OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. REPLACED DRAIN TILE SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. IF POSSIBLE, THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO A STORM SEWER STRUCTURE, CURB UNDERDRAIN OR OUTLET INTO THE ROADWAY DITCH AS APPLICABLE. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

MAINTAIN DRAINAGE:

THE FLOW IN ALL SEWERS, DRAINS AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN COST AND EXPENSE, UNLESS SPECIFIC PROVISION IS MADE WITHIN THE CONTRACT DOCUMENTS FOR THE MEASURE OF AND PAYMENT FOR SUCH COST SPECIFIC ITEMS, TO A CONDITION SATISFACTORY TO THE CITY.

INLET PROTECTION:

THE CONTRACTOR IS RESPONSIBLE TO KEEP ALL STORM SEWER INLETS PROTECTED FROM EXCESSIVE AMOUNTS OF SEDIMENTS USING ADEQUATE FILTERING DEVICES AS APPROVED BY THE CITY.

EROSION & SEDIMENTATION CONTROL:

THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORMWATER RUNOFF LEAVES THE PROJECT INCLUDING WATERWAYS, OVERLAND SHEET FLOW AND STORM SEWERS. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED AS PER THE REQUIREMENTS OF THE CITY OF GROVE CITY AND THE STANDARDS AND SPECIFICATIONS OF THE "RAINWATER AND LAND DEVELOPMENT" MANUAL OF THE ODNR.

EROSION CONTROL MEASURES ARE TO BE INSTALLED PER NPDES PERMIT REGULATIONS OR AS DIRECTED BY THE CITY, AND ARE TO BE MAINTAINED UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED BY THE PERMIT AND THE CITY. COST FOR EROSION AND SEDIMENTATION CONTROL SHALL BE INCLUDED IN THE PRICE BID FOR CMSC ITEM 207.

ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF GROVE CITY AND/OR THE OHIO EPA. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT ACTION.

THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE CITY OF GROVE CITY 48 HOURS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY.

ALL DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS OF COMPLETION OF GRADING OPERATIONS IF SAID AREAS ARE TO REMAIN UNDISTURBED FOR MORE THAN FORTY-FIVE (45) DAYS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED PERIODICALLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL EVENT. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE IT AT NO ADDITIONAL COST TO THE OWNER.

SOIL STOCKPILES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL SOIL STOCKPILES, INCLUDING TRENCH EXCAVATION STOCKPILES, PROTECTED FROM EROSION. THE AREAS SURROUNDING THE STOCKPILES ARE TO BE PROTECTED FROM SEDIMENT WITH THE USE OF PERIMETER CONTROL DEVICES SUCH AS EARTH OR STRAW BALE DEVICES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.

DISPOSAL OF EXCESS EXCAVATION:

UNLESS SPECIFICALLY STATED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATED MATERIAL THAT IS NOT BEING USED AS FILL AT AN OFFSITE LOCATION. THE CONTRACTOR SHALL PROVIDE A COPY OF THE SIGNED, WRITTEN AGREEMENT BETWEEN THE CONTRACTOR AND THE OFFSITE LANDOWNER BEFORE SUCH DISPOSAL OCCURS. THE WRITTEN AGREEMENT SHALL CLEARLY STATE THE PURPOSE OF THE AGREEMENT AND INDICATE THE LANDOWNER'S PERMISSION FOR SUCH USE. EXCESS EXCAVATION MATERIAL SHALL NOT BE DISPOSED OF WITHIN ANY FLOODPLAIN AREA, UNLESS ANY AND ALL NECESSARY APPROVALS TO DO SO HAVE BEEN OBTAINED. THE COST FOR DISPOSAL OF EXCAVATED MATERIALS SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE BID FOR THE VARIOUS ITEMS OF WORK.

CLEANUP:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS, MUD OR DIRT TRACKED OR SPILLED ON CITY AND/OR PUBLIC STREETS OR PRIVATE DRIVES WHETHER INSIDE OR OUTSIDE THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY SERVICES CONTRACTED AND/OR COMPLETED BY THE CITY OF GROVE CITY IN THE CLEANUP OF ANY TRACKING OR SPILLAGE ANYTIME DURING PROJECT CONSTRUCTION. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO PERFORM WEEKLY STREET CLEANING IF EXCESSIVE AMOUNTS OF DIRT AND MUD ARE LEFT ALONG THE STREET. THIS MAY INCLUDE REMOVAL BY SWEEPING, POWER CLEANING, OR MANUAL METHODS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT ITEMS, UNLESS OTHERWISE SPECIFIED.

CONSTRUCTION DEBRIS:

ALL DEBRIS, RUBBLE, UNUSABLE MATERIALS, AND ITEMS NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF PROPERLY.

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GENERAL NOTES — **C0.02**

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

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GENERAL NOTES CONTINUED

MAINTENANCE OF TRAFFIC NOTES:

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (CURRENT EDITION), COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPT. OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD ST., COLUMBUS, OH 43223.

STEADY-BURNING, TYPE 'C' LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. CONES ARE NOT APPROVED FOR USE AT NIGHT.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA SHALL BE MAINTAINED AT ALL TIMES.

ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 A.M. TO 9:00 A.M. AND 4:00 TO 6:00 P.M. WEEKDAYS ON ALL ROADWAYS WITHIN THE PROJECT AREA. ONE LANE MAY BE CLOSED TO TRAFFIC DURING WORKING HOURS.

FOR MAJOR THOROUGHFARES AND COLLECTORS:

TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION OPERATIONS IN ACCORDANCE WITH PAGE C-18 OF THE OHIO MANUAL. A UNIFORMED OFFICER SHALL BE SUBSTITUTED FOR EACH FLAGMAN SHOWN ON THAT PAGE AND SUCH OFFICERS SHALL BE PRESENT WHENEVER TWO-WAY, ONE-LANE OPERATION IS IN EFFECT.

FOR LOCAL STREETS:

POLICE OFFICERS ARE NOT NEEDED, UNLESS A HAZARD DEVELOPS, FOR TWO-WAY, ONE-LANE TRAFFIC MAINTAINED DURING CONSTRUCTION OPERATIONS ON ALL LOCAL ROADWAYS WITHIN THE PROJECT AREA. IF A HAZARD DEVELOPS, AN OFF-DUTY OFFICER MAY BE ASSIGNED BY THE CITY TO THE PROJECT AT THE CONTRACTOR'S EXPENSE.

ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGH THIS PROJECT BY THE CONTRACTOR. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED SIGNS.

ANY WORK DONE BY THE CITY, INCLUDING INSTALLATION, MODIFICATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF THE NEGLIGENCE OF THE CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

ALL PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS AS SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE CONTRACTOR AT THE DEVELOPER'S EXPENSE. THE CITY OF GROVE CITY SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO THE INSTALLATION OF PERMANENT MARKINGS TO INSPECT AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKINGS ARE PLACED.

UTILITY NOTES

CONCRETE PIPE AND STRUCTURE INSPECTION:

ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. ALL CONCRETE PIPE, STORM, AND SANITARY SEWER STRUCTURES SHALL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM, AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. INSTALLATION OF PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION SHALL NOT BE PERMITTED.

PIPE MATERIAL

THE INSTALLATION OF ALL SEWER PIPE ON THIS PROJECT SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE CMSC, UNLESS SPECIFICALLY INDICATED OTHERWISE, WITH MATERIALS CONFORMING TO THE APPROPRIATE REFERENCED SECTION OF CMSC OR ODOT CMS. THE FOLLOWING PIPE MATERIALS WILL BE PERMITTED FOR USE FOR PUBLIC SEWERS.

SANITARY SEWER PIPE

OUTSIDE OF R/W LIMITS

FLEXIBLE PIPE (PVC PIPE PER CMSC 720.08 ONLY, ASTM D-3034, SDR 35) WILL BE ALLOWED FOR SEWERS UP TO AND INCLUDING 15" DIAMETER THAT HAVE A MINIMUM OF 4' COVERAGE AND A MAXIMUM 20' COVERAGE.

FLEXIBLE PIPE (PVC PIPE PER CMSC 720.08 ONLY, ASTM D-3034, SDR 26) WILL BE ALLOWED FOR SEWERS 8"-10" DIAMETER THAT EXCEED 20' IN DEPTH.

RIGID PIPE WILL BE REQUIRED FOR ALL SEWERS GREATER THAN 15" (REINFORCED CONCRETE PIPE 706.02, VITRIFIED CLAY PIPE 706.08, DUCTILE IRON 801.03) AND FOR ANY SEWERS GREATER THAN 10" DIAMETER THAT WILL HAVE LESS THAN 4' OF COVERAGE OR MORE THAN 20' OF COVERAGE.

WITHIN R/W

FLEXIBLE PIPE WILL BE ALLOWED FOR SEWERS UP TO AN INCLUDING 15" DIAMETER (PVC PIPE PER CMSC 720.08 ONLY, ASTM D-3034, SDR 35) THAT HAVE A MINIMUM OF 4' COVERAGE AND A MAXIMUM OF 20' COVERAGE.

FLEXIBLE PIPE (PVC PIPE PER CMSC 720.08 ONLY, ASTM D-3034, SDR 26) WILL BE ALLOWED FOR SEWERS 8"-10" DIAMETER THAT EXCEED 20' IN DEPTH.

RIGID PIPE WILL BE REQUIRED FOR ALL SEWERS GREATER THAT 12" (REINFORCED CONCRETE PIPE 706.02, VITRIFIED CLAY PIPE 706.08, DUCTILE IRON 801.03) AND FOR ANY SEWERS GREATER THAN 10" DIAMETER THAT WILL HAVE LESS THAN 4' OF COVERAGE OR MORE THAN 20' COVERAGE.

STORM SEWER PIPE

OUTSIDE OF PAVEMENT LIMITS

FLEXIBLE PIPE ACCORDING TO THE FOLLOWING SPECIFICATIONS:

POLYVINYL CHLORIDE (PVC) PIPE <= 15" DIAMETER WITH MINIMUM OF 4 FEET COVERAGE AND A MAXIMUM OF 15 FEET COVERAGE SHALL CONFORM TO ODOT CMS 707.45.

HIGH DENSITY POLYETHYLENE (HDPE) PIPE BETWEEN 12" AND 36" DIAMETER CONFORMING TO ODOT CMS 707.33 WITH A MAXIMUM 15 FEET COVERAGE AND A MINIMUM 2 FEET COVERAGE. MANDREL TESTING SHALL BE PERFORMED PER CMSC 901.21

RIGID PIPE WILL BE REQUIRED FOR ALL SEWERS GREATER THAN 36" DIAMETER (REINFORCED CONCRETE PIPE CMSC 706.02, CONCRETE BOX CMSC 706.05) AND IS ALSO PERMITTED ON ALL SEWERS BETWEEN 12" AND 36" DIAMETER.

WITHIN PAVEMENT LIMITS

FLEXIBLE PIPE ACCORDING TO THE FOLLOWING SPECIFICATIONS:

FLEXIBLE PIPE WHICH CONFORMS TO ODOT CMS 605 MAY BE USED FOR 4" AND 6" DRAIN TILES.

HIGH DENSITY POLYETHYLENE (HDPE) PIPE OF <= 15" DIAMETER CONFORMING TO ODOT CMS 707.33 WITH A MAXIMUM 15 FEET COVERAGE AND A MINIMUM 2 FEET COVERAGE. MANDREL TESTING SHALL BE PERFORMED PER CMSC 901.21. CONCRETE ENCASEMENT SHALL BE PROVIDED WHEN THE COVERAGE BETWEEN THE TOP OF PIPE AND THE SUBGRADE IS LESS THAN 30 INCHES.

RIGID PIPE WILL BE REQUIRED FOR ALL SEWERS GREATER THAN 15" (REINFORCED CONCRETE PIPE 706.2. CONCRETE BOX 706.05) AND IS ALSO PERMITTED FOR USE ON 12" TO 15" SEWERS.

TRENCH BACKFILL:

TRENCHES WITHIN A 1:1 INFLUENCE OF THE ROADWAY AND/OR PAVEMENT, INCLUDING ALL POINTS TO WITHIN 3' BEHIND THE CURB OR EDGE OF PAVEMENT, SHALL BE FILLED AND COMPACTED PER TYPE A BACKFILL. TRENCHES WITHIN THE RIGHT-OF-WAY, BUT OUTSIDE THE ROAD INFLUENCE, SHALL BE FILLED AND COMPACTED AS PER TYPE B BACKFILL. ALL OTHER TRENCHES SHALL BE FILLED AND COMPACTED AS PER TYPE C BACKFILL AT A MINIMUM, OR AS OTHERWISE INDICATED WITHIN THESE PLANS.

ALL ITEM NUMBERS SHOWN BELOW REFER TO CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC) ITEM NUMBERS.

TYPE A BACKFILL SHALL BE GRANULAR MATERIAL, CONFORMING TO ITEM 703.01 NO. 4 COARSE AGGREGATE OR ITEM 304, AS DIRECTED BY THE ENGINEER, COMPACTED AS STIPULATED IN ITEM 912.3. IN ALL CASES GRANULAR MATERIAL SHALL BE USED AROUND ALL MANHOLES, STRUCTURES AND CLEANOUTS. CDF IS NOT PERMITTED UNLESS SPECIFICALLY REQUESTED BY THE CITY AND IN SUCH CASE WILL BE TYPE I OR TYPE II

TYPE B BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN TWO INCHES (2") ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM LABORATORY DRY WEIGHT AND PLACED PER ITEM 901.17.

TYPE C BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN SIX INCHES (6") ACROSS THEIR GREATEST DIMENSION, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL, COMPACTED TO 90% OF ITS MAXIMUM LABORATORY DRY WEIGHT. WHEN APPROVED BY THE ENGINEER, ROCKS NO LARGER THAN ONE CUBIC FOOT MAY BE DEPOSITED AT LEAST THREE FEET ABOVE THE TOP OF THE SEWER.

AGGREGATE FOR BEDDING SHALL BE NO. 57 OR NO. 8, AS PER ITEM 703.

THE EXCAVATED TRENCH WIDTH TWELVE INCHES (12") ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.

TRENCHES:

ALL TRENCHES SHALL BE MAINTAINED AS SAFE AS POSSIBLE BY THE CONTRACTOR AT ALL TIMES AND BACKFILLED AS SOON AS PRACTICAL. ALL TRENCHES DURING NON-WORKING HOURS REQUIRE TRAFFIC PLATES, AND/OR LIGHTED BARRICADES AND CONSTRUCTION FENCE.

WATER MAIN SEPARATION:

THE CONTRACTOR SHALL MAINTAIN EIGHTEEN INCHES (18') VERTICAL AND TEN FEET (10') HORIZONTAL SEPARATIONS BETWEEN ANY WATER MAIN AND SANITARY AND STORM SEWERS.

DEFLECTION TESTING:

ALL FLEXIBLE SEWERS ARE SUBJECT TO MANDREL TESTING AND VIDEO INSPECTION AS DIRECTED BY THE CITY ENGINEER. TESTING SHALL BE PERFORMED NO SOONER THAN 30 DAYS AFTER THE PIPE TRENCH HAS BEEN BACKFILLED AND ALL ROADWAY AND SITE FILLS OVER THE SEWERS CONSTRUCTED. THE TESTING SHALL BE COMPLETED IN CONFORMANCE WITH THE REQUIREMENTS OF CMSC ITEM 901.21. MAXIMUM DEFLECTION SHALL NOT EXCEED 5% OF THE BASE INSIDE DIAMETER. COST OF THE TESTING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

GRADE CHECKS:

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR THE USE OF, AND ASSIST, THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO A TIME CONVENIENT TO THE CONTRACTOR.

THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:

PROPER PLACEMENT OF EACH STRUCTURE.

PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.

GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.

GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

A GRADE CHECK PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVES THE CONTRACTOR FROM THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

GRADE CHANGES:

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING SEWER, OR EXISTING APPURTENANCE TO BE CONNECTED TO, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, THE DESIGN ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE DESIGN ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE CITY.

STRUCTURE ADJUSTMENT:

THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL PROPOSED MANHOLES. IF PRECAST STRUCTURES ARE UTILIZED, A MINIMUM OF THE TOP 6" AND A MAXIMUM OF 12" SHALL BE FIELD PLACED EITHER WITH GRADE RINGS OR BRICK AND MORTAR TO ALLOW FOR FIELD ADJUSTMENT.

TEMPORARY BULKHEAD:

THE CONTRACTOR SHALL INSTALL A TEMPORARY BULKHEAD, WHERE DIRECTED ON THE PLANS, PRIOR TO CONSTRUCTION OF THE PROPOSED SEWERS AND SHALL MAINTAIN SAME UNTIL SAID SEWERS ARE ACCEPTED BY THE CITY.

RISERS:

SERVICE RISERS, CMSC ITEM 914, SHALL BE INSTALLED WHERE DEPTHS FROM THE WYES TO THE EXISTING OR PROPOSED GROUND ELEVATIONS EXCEED 10'. THE TOPS OF RISERS SHALL BE NO MORE THAN 9'± BELOW THE EXISTING OR PROPOSED SURFACE ELEVATION, WHICHEVER IS HIGHER. RISER EXTENSIONS SHALL BE A MINIMUM OF 3' IN LENGTH.

CLEAN WATER CONNECTIONS PROHIBITED:

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED ON THIS PROJECT.

Y-POLES:

APPROVED Y-POLES MADE OF 2" X 2" LUMBER SHALL BE FURNISHED AND PLACED AT ALL Y-BRANCHES AND AT THE END OF EXTENDED SERVICES. Y-POLES SHALL EXTEND FROM THE END OF SERVICE PIPE TO AT LEAST 2 FEET ABOVE EXISTING OR PROPOSED GRADE, WHICHEVER IS HIGHER. THE COST OF THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

CITY WATER:

THE CONTRACTOR SHALL OBTAIN FROM THE CITY OF COLUMBUS, DIVISION OF POWER AND WATER (645-8270) A WATER USAGE PERMIT AND A FIRE HYDRANT PERMIT FROM THE JACKSON TOWNSHIP FIRE DEPARTMENT (875-5588) PRIOR TO CONNECTION OF THEIR WATER SUPPLY LINES TO ANY FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY GATE VALVES, BACKFLOW PREVENTERS, AND FLOW METER FOR EACH HYDRANT LOCATION. ALL EQUIPMENT, FITTINGS, AND VALVES SHALL BE IN ACCORDANCE WITH DIVISION OF POWER AND WATER STANDARDS. THE CONTRACTOR SHALL PAY FOR WATER AT THE CURRENT CITY RATES. USE OF WATER FROM FIRE HYDRANTS AND ASSOCIATED FEES ARE OUTLINED IN THE CITY OF GROVE CITY RULE AND REGULATION #93.3. A COPY OF THIS REGULATION IS AVAILABLE FROM THE DIVISION OF POWER AND WATER, PERMIT OFFICE, 614-645-7695.

WATER PLAN APPROVAL:

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL THE PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

WATER CONTRACTOR LICENSE:

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATERLINE SYSTEMS WITHOUT FIRST SECURING A LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS TO ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

INTERRUPTION OF WATER SERVICE:

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS, BUT NOT MORE THAN 72 HOURS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE HELD TO A MINIMUM AND SHALL BE APPROVED BY THE CITY OF GROVE CITY.

WATER MAIN MATERIALS:

ALL WATER MAIN MATERIAL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ITEM 801 OF THE CMSC. ALL WATER MAIN INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF POWER AND WATER.

EXISTING VALVES:

ALL EXISTING VALVES SHALL BE OPERATED BY CITY OF COLUMBUS, DIVISION OF POWER AND WATER PERSONNEL ONLY, AS STATED IN CHAPTER 1113 OF THE COLUMBUS CITY CODE.

WATER MAIN CLEANING AND FLUSHING:

ALL WATER MAINS SHALL BE CLEANED AND FLUSHED IN ACCORDANCE WITH SECTION 801.11 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. ADDITIONALLY, WATER MAIN 12-INCH AND LARGER MUST ALSO BE PROPERLY PIGGED.

TESTING PROCEDURE:

ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH ITEM 801.12 OF THE CMSC. COST OF THIS WORK IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE PIPE UNDER CMSC ITEM 801.

EACH VALVED SECTION OF WATER MAIN SHALL BE TESTED INDEPENDENTLY OF ONE ANOTHER UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. PRESSURE TEST SHALL BE CONDUCTED WITH ALL WATCH VALVES OPEN AND HYDRANT FOOT VALVES CLOSED.

ANY TESTING PERFORMED AGAINST EXISTING VALVES SHALL BE AT THE CONTRACTOR'S RISK AND IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE CITY. IF SATISFACTORY RESULTS CANNOT BE OBTAINED AGAINST AN EXISTING VALVE, THE NEW LINE SHALL BE DISCONNECTED FROM THE EXISTING VALVE, PLUGGED AND RETESTED. DISCONNECTION FROM THE EXISTING WATER MAIN AND ANY REPAIRS NECESSARY BECAUSE OF DAMAGE CAUSED TO THE EXISTING LINES, VALVES AND SERVICE CONNECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.

DISINFECTION:

ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC). SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AWWA C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.

HAND SWABBING:

THE CONTRACTOR SHALL HAND SWAB ALL PIPES AND FITTINGS THAT ARE NOT OTHERWISE DISINFECTED. THE AMOUNT OF CHLORINE TO BE USED DURING HAND SWABBING OPERATIONS WILL BE DETERMINED BY THE CITY OF GROVE CITY.

SERVICE TRANSFER AND WATERLINE ABANDONMENT:

WHERE INDICATED ON PLANS, THE EXISTING WATERLINES SHALL BE ABANDONED AND EXISTING WATER SERVICES OFF THESE LINES, INDICATED ON THE PLANS AND SHOWN BY HOUSE NUMBER, SHALL BE TRANSFERRED TO THE NEW WATERLINE.

PRIOR TO ABANDONMENT OF EXISTING WATERLINES, THE PROPOSED NEW WATERLINES SHALL BE TESTED AND CHLORINATED AND THEN THE EXISTING SERVICES SHALL BE TRANSFERRED TO THE NEW WATERLINES. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL WATER CUSTOMERS AFFECTED BY TRANSFER OF SERVICE.

THE DISPOSITION OF ALL OTHER EXISTING SERVICES SHOWN ON THE PLANS AND NOT INDICATED AS TRANSFERS SHALL BE COORDINATED WITH THE CITY PRIOR TO ANY ACTION.

TO ENSURE THAT ALL EXISTING WATER SERVICES ARE TRANSFERRED TO THE NEW WATERLINE, NO WATERLINE SHALL BE ABANDONED UNTIL ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; THE NEW WATERLINE IS PUT IN SERVICE; AND THE EXISTING WATERLINE TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS.

ALL VISIBLE VALVE AND SERVICE BOXES ON THE WATERLINE TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).

SERVICE CONNECTION PERMITS:

NO SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTION MADE TO ANY SERVICE TAPS UNTIL THE WATERLINE HAS BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF POWER AND WATER.

BLOCKING:

ALL FITTINGS SHALL BE ADEQUATELY RESTRAINED WITH CONCRETE BLOCKING PER THE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS. ALL FITTINGS TO BE BACKED MUST BE THOROUGHLY WRAPPED IN A PLASTIC SHEETING PRIOR TO PLACING CONCRETE.

EXISTING PLUGS, CAPS, ETC.:

PLUGS AND CAPS REMOVED FROM EXISTING WATERLINES SHALL BE DELIVERED TO THE WATER SERVICES CENTER, 4035 BROADWAY, GROVE CITY, OHIO, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS DELIVERY.

FIRE HYDRANT REPLACED OR RELOCATED:

NO EXISTING FIRE HYDRANTS TO BE REPLACED OR RELOCATED SHALL BE REMOVED, OR TAKEN OUT OF SERVICE, UNTIL THE NEW WATERLINES ARE IN SERVICE AND THE NEW FIRE HYDRANTS ARE ACCEPTED BY THE JACKSON TOWNSHIP FIRE DEPARTMENT.

WATER SERVICES:

WHERE AND AS SHOWN ON THE PLANS, THE WATER SERVICES SHALL BE EXTENDED FROM THE NORMAL LOCATIONS OF THE PERMANENT BOX AND CURB STOP TO ITS TERMINUS POINT WITH COPPER TYPE K AND A TEMPORARY BOX SET AT THE END OF THE EXTENSION.

WATER METERS:

ALL WATER METERS ASSOCIATED WITH THIS PROJECT SHALL BE INSTALLED INSIDE THE PROPOSED STRUCTURE UNLESS A METER PIT IS APPROVED BY THE ADMINISTRATOR OF THE DIVISION OF POWER AND WATER, CITY OF COLUMBUS. ALL METER PITS MUST CONFORM TO STANDARD DRAWING L-7103, A & B FOR 5/8" THROUGH 1" METERS OR L-6317, A & B FOR 1 1/2" OR LARGER METERS.

POLYETHYLENE ENCASEMENT:

CONTRACTOR SHALL WRAP ALL DUCTILE IRON PIPE WITH TUBE STYLE 8 MIL LINEAR LOW DENSITY POLYETHYLENE (LLDPE) FILM MADE FROM VIRGIN POLYETHYLENE ONLY (NO RECYCLED MATERIAL) PER AWWA C-105. THE COLOR SHALL BE BLACK WITH NOMINAL 2% CARBON BLACK UV INHIBITOR AND PRINTED PER THE AWWA C-105 STANDARD. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE "POLYETHYLENE ENCASEMENT INSTALLATION GUIDE" WRITTEN BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA).

ALL LUMPS OF CLAY, MUD, CINDERS, ETC., ON THE PIPE SURFACE SHALL BE REMOVED BEFORE THE PIPE IS COVERED WITH POLYETHYLENE. WHEN LIFTING POLYETHYLENE-ENCASED PIPE USE A FABRIC TYPE SLING OR PADDED CABLE. JOINTS SHALL BE OVERLAPPED AND TAPED. FOLD EXCESS SLACK OVER THE TOP OF THE PIPE AND TAPE EVERY THREE (3) FEET. SMALL HOLES OR TEARS SHALL BE REPAIRED WITH A PIECE OF TAPE PLACE OVER THE HOLE. LARGE HOLES OR TEARS SHOULD BE REPAIRED BY TAPING ANOTHER PIECE OF POLYETHYLENE OVER THE HOLE. TO AVOID DAMAGE DURING BACKFILLING ALLOW ADEQUATE SLACK IN THE FILM TUBE AT JOINTS. BACKFILL MATERIAL SHALL BE FREE OF CINDERS, ROCKS, BOULDERS, NAILS, STICKS OR OTHER MATERIAL THAT WILL DAMAGE THE POLYETHYLENE SLEEVE.

APPURTENANCES SUCH AS BOLTED JOINTS, VALVES, SERVICE TAPS SHALL ALSO BE WRAPPED. FOR SERVICE TAPS, WRAP TWO/THREE LAYERS OF TAPE COMPLETELY AROUND THE POLYETHYLENE-ENCASED PIPE TO COVER THE AREA WHERE TAPPING MACHINE WILL CONTACT THE PIPE. INSTALL CORPORATION STOP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE. WRAP COPPER SERVICE AT LEAST THREE FEET (3') BACK FROM INSTALLATION WITH TAPE AND ADDITIONAL POLYETHYLENE FILM TO PREVENT ELECTROLYSIS.

ALL WORK NECESSARY TO FURNISH AND INSTALL THE POLYETHYLENE ENCASEMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 801.

BACKFILL TESTING:

PRIOR TO CONSTRUCTION OF THE PUBLIC ROADWAY, SOIL DENSITY TESTS SHALL BE MADE ON ALL SANITARY SEWER AND DESIGNATED STORM SEWER TRENCHES WHICH CROSS THE PROPOSED PAVEMENTS OR WHICH LIE SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATE THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ITEM 912.03 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL COMPACTION MEETS SAID REQUIREMENTS OF ITEM 912.03.

RECORD PLANS:

THE DEVELOPER IS RESPONSIBLE FOR PROVIDING 'RECORD PLAN' CONSTRUCTION DRAWINGS TO THE CITY OF GROVE CITY AFTER THE PROJECT HAS BEEN COMPLETED. THE PLANS MUST INCLUDE TOP OF CASTING AND INVERT ELEVATIONS FOR ALL SANITARY AND STORM STRUCTURES AND IDENTIFY ANY AND ALL FIELD MODIFICATIONS TO, AND DEVIATIONS FROM, THE APPROVED PLAN SET. A REDLINE SET OF PLANS REFLECTING THE 'RECORD PLAN' INFORMATION SHALL BE KEPT BY THE PROJECT INSPECTOR AND PROVIDED TO THE CITY ENGINEER FOR REVIEW AND SUBSEQUENT PREPARATION OF THE RECORD PLAN DRAWINGS. IF THE REDLINE PLANS ARE INCOMPLETE OR MISSING INFORMATION, THE DEVELOPER SHALL BE RESPONSIBLE FOR SUPPLYING THE MISSING INFORMATION BY FIELD SURVEY OR OTHER MEANS TO FACILITATE A COMPLETE SET OF RECORD DRAWINGS.

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GENERAL NOTES — C0.03

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 12:21 PM J:\2015\15037 prologis capital park south\01\dwg\sheets\15037_general notes.dwg dwconver

REQUIRED SETBACKS TABLE

	BUILDINGS	CAR PARKING	TRUCK PARKING
NORTH	100'	25'	45'
SOUTH	6'	N/A	20'
EAST	100'	30/100'*	N/A
WEST	100'	30/100'*	N/A

* Per Section 1135.12(l) parking is not permitted within 100' of property lines adjacent to residential districts.

PARKING TABLES

BUILDING 1	
PARKING SPACES	234
MAX EMPLOYEES PER SHIFT	468

BUILDING 2	
PARKING SPACES	299
MAX EMPLOYEES PER SHIFT	598

MARLANE DR

I-270

PROP. R/W DEDICATION TO ESTABLISH MIN 35' R/W FROM C/L OF MARLANE DRIVE

BENCHMARK #2

CONTROL POINT #1

SANITARY WYES TO BE INSTALLED AND STUBBED 5' BEYOND R/W FOR FUTURE CONNECTION

12" PUBLIC WATER MAIN TO BE EXTENDED 5' BEYOND R/W FOR FUTURE CONNECTION

CONTROL POINT #2

BENCHMARK #1

CONTROL POINT #3

PROP. 20' UTILITY EASEMENT

8" SAN

25' CAR PARKING SETBACK

45' TRUCK PARKING SETBACK

NO TRAILER PARKING

100' BUILDING SETBACK

PROP. FIRE HYDRANT

12" FIRE

DRIVE IN DOOR

PROPOSED BUILDING 2
FF=779
DOCK=775
324,800 SF

PROPOSED SITE ZONING: IND-1

PROP. REMOTE FDC BUILDING 2

3" DWS

12" PUBLIC WATER MAIN

NABC REAL ESTATE LLC
43.82 ACRES
APN: 040-001144

PROPOSED BUILDING 1
FF=778.5
DOCK=774.5
324,000 SF

PROP. PUBLIC FIRE HYDRANT

PROP. REMOTE FDC BUILDING 1

10" FDWS

3" DWS

RISER ROOM

EX. PETROLEUM MAIN (TO BE REMOVED)

EXISTING UTILITY EASEMENT

PROPOSED RETENTION BASIN

100' BUILDING/PARKING SETBACK

WAYNE STURTEVANT
4.54 ACRES
APN: 040-004139

EXISTING SITE ZONING: R-1

FARMBROOK VILLAGE CONDOMINIUM
SECOND AMENDMENT
CPB 129 PG 14

EXISTING SITE ZONING: PUD-R

FARMBROOK VILLAGE CONDOMINIUM
THIRD AMENDMENT
CPB 133 PG 95

EXISTING SITE ZONING: PUD-R

FARMBROOK VILLAGE CONDOMINIUM
FIRST AMENDMENT PART 2
CPB 123 PG 28

EXISTING SITE ZONING: PUD-R

N20°15'36"E 6004.80'

100' BUILDING/PARKING SETBACK

PROP. 50' UTILITY EASEMENT

PROP. PETROLEUM MAIN RELOCATION

PROP. VERSA LOCK RETAINING WALL

20' TRUCK PARKING SETBACK
6' BUILDING SETBACK

MIDWEST SOUTHPARK VIII
18 ACRES
APN: 040-008990

RESUBDIVISION OF A PART OF LOT 13 AND A PART OF LOT 14
OF SOUTHPARK
PB 82 PG 3

EXISTING SITE ZONING: IND-1

SOUTHPARK PLACE

EXETER 3400 SOUTH PARK
26.64 ACRES
APN: 040-008994

EXISTING SITE ZONING: IND-1

NABC REAL ESTATE LLC
39.55 ACRES
APN: 040-004148

EXISTING SITE ZONING: SD-4

0 100 200
HORIZONTAL SCALE IN FEET

Jobes Henderson & ASSOCIATES
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FAX: (740) 344-5746
www.jobeshenderson.com

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

MASTER SITE PLAN — C1.00

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 10:50 AM j:\2015\15037 prologis capital park south\01\dwg\sheets\15037_overall layout.dwg dweaver

MARLANE CT.

MARLANE DRIVE

60' R/W

22'

20' CAR PARKING SETBACK

45' TRUCK PARKING SETBACK

GROVE CITY CORP. LINE

100' BUILDING SETBACK

DRIVE IN DOOR

PROP. RETAINING WALL BY OTHERS

APPROX. LOCATION OF TRASH COMPACTOR SCREENING PROVIDED ON LANDSCAPING PLAN

PROP. RET

APPROX. LOCATION OF RISER ROOM

PROPOSED BUILDING 2
324,800 SF

PROPOSED BUILDING 1
324,000 SF

LEGEND

- XX — PARKING COUNT
- P1 — HEAVY DUTY PAVEMENT
- P2 — STANDARD DUTY PAVEMENT
- P3 — CONCRETE PAVEMENT
- P4 — CONCRETE WALK
- P5 — STANDARD COMBINED CURB & SIDEWALK
- P6 — STRAIGHT 18" CURB
- P7 — ODOT TYPE "7" MODIFIED CURB

APPROX. LOCATION OF TRASH COMPACTOR SCREENING PROVIDED ON LANDSCAPING PLAN

PROP. BOLLARDS SEE SHEET C2.02

100' BUILDING/PARKING SETBACK

20' TRUCK PARKING SETBACK

6' BUILDING SETBACK

PROP. VERSA-LOK RETAINING WALL

SOUTHPARK PLACE

SITE DATA

ZONING:	IND1
PROP. BUILDINGS	
BUILDING 1	324,000 SF
BUILDING 2	324,800 SF
PROP. PARKING (EMPLOYEE)	
BUILDING 1	245 STALLS INCLUDING 5 HANDICAP STALLS
BUILDING 2	215 STALLS INCLUDING 5 HANDICAP STALLS
PROP. PARKING (TRAILER)	
BUILDING 1	54 STALLS
BUILDING 2	24 STALLS

0 50 100
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SITE PAVEMENT PLAN — C2.00

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

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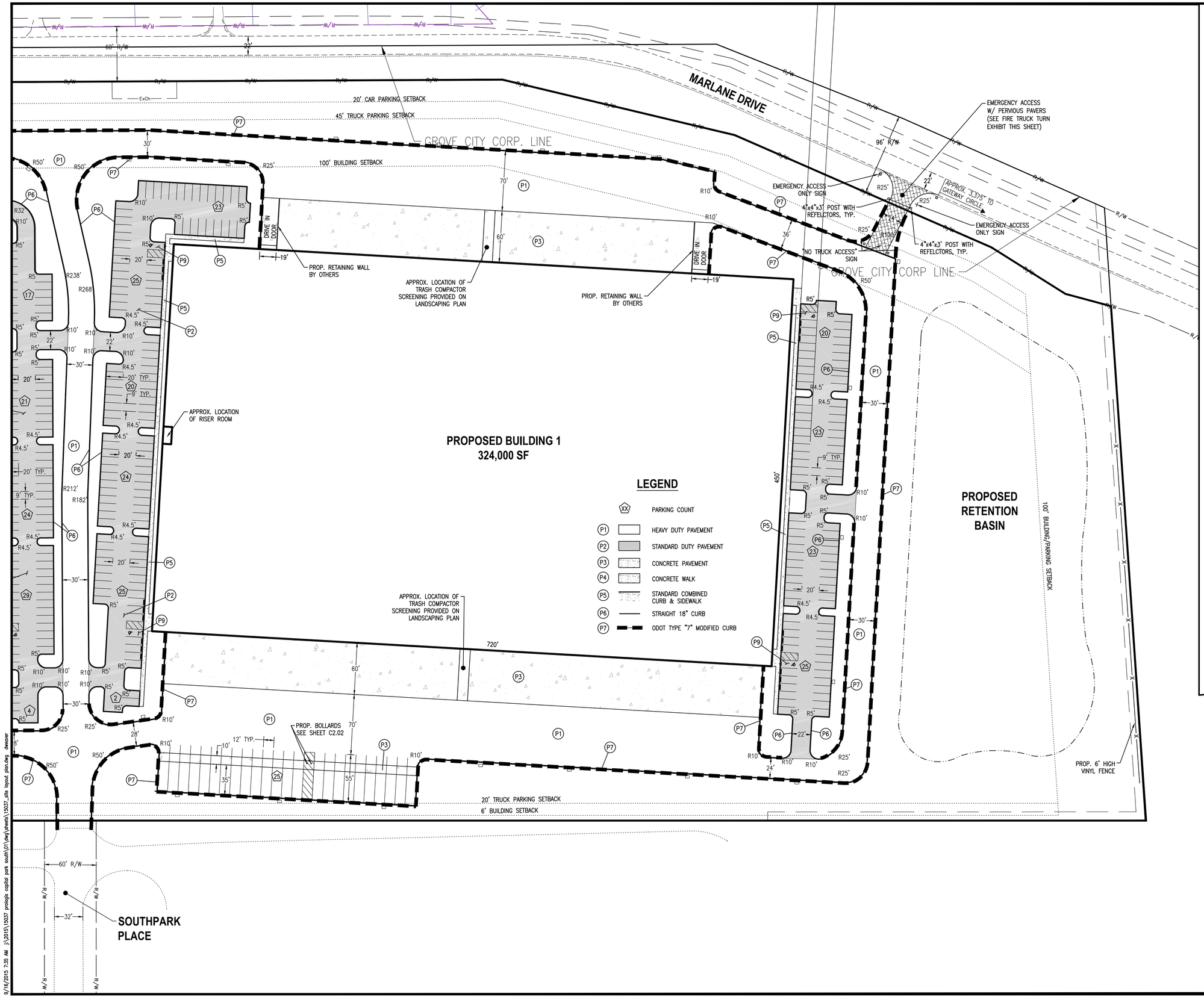
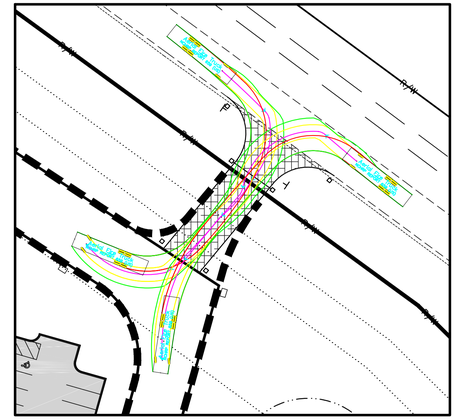
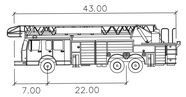




FIRE TRUCK EMERGENCY ACCESS EXHIBIT

SCALE: 1"=40'



Aerial Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 33.3

SITE DATA

ZONING:	IND1
PROP. BUILDINGS	
BUILDING 1	324,000 SF
BUILDING 2	324,800 SF
PROP. PARKING (EMPLOYEE)	
BUILDING 1	245 STALLS INCLUDING 5 HANDICAP STALLS
BUILDING 2	215 STALLS INCLUDING 5 HANDICAP STALLS
PROP. PARKING (TRAILER)	
BUILDING 1	54 STALLS
BUILDING 2	24 STALLS

0 50 100
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR

PROLOGIS SOUTH PARK

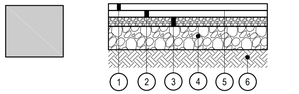
SITE PAVEMENT PLAN — C2.01

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/16/2015 7:35 AM j:\2015\15037 prologis capital park south\01\dwg\sheets\15037_site layout plan.dwg dweaver

STANDARD DUTY PAVEMENT



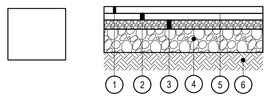
1. Item 448 - 1¼" Asphalt Concrete Surface Course
2. Item 448 - 1¾" Asphalt Concrete Intermediate Course
3. Item 304 - 2" Aggregate Base
4. Item 703 - 6" No. 2 Stone
5. Item 407 - Tack Coat
6. Item 204 - Subgrade Compaction

All pavement materials shall conform to the current ODOT Construction and Materials Specifications.

P1 STANDARD ASPHALT CONCRETE PAVEMENT SECTION

Not to Scale

HEAVY DUTY PAVEMENT

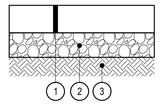


1. Item 448 - 1½" Asphalt Concrete Surface Course
2. Item 448 - 2½" Asphalt Concrete Intermediate Course
3. Item 304 - 3" Aggregate Base
4. Item 703 - 6" No. 2 Stone
5. Item 407 - Tack Coat
6. Item 204 - Subgrade Compaction

All pavement materials shall conform to the current ODOT Construction and Materials Specifications.

P2 HEAVY DUTY ASPHALT CONCRETE PAVEMENT SECTION

Not to Scale

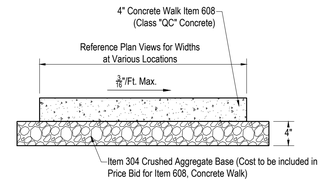


1. Item 451 - 6½" Reinforced PC Concrete Pavement
2. Item 304 - 6" Aggregate Base
3. Item 204 - Subgrade Compaction

All pavement materials shall conform to the current ODOT Construction and Materials Specifications.
Expansion joints shall be placed at a minimum of every 300' along the concrete pavement for the truck dock.
Expansion joints shall also be placed at the building face and at the walls for the drive up doors.

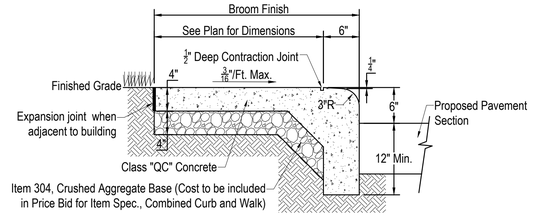
P3 TYPICAL CONCRETE PAVEMENT SECTION

Not to Scale



P4 SIDE WALK SECTION

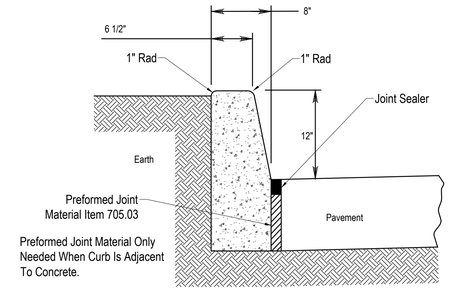
Not to Scale



NOTE: Provide control joints in sidewalk @ 5'-0" O.C. and expansion joints @ 20'-0" O.C.

P5 STANDARD COMBINED CURB AND SIDEWALK SECTION

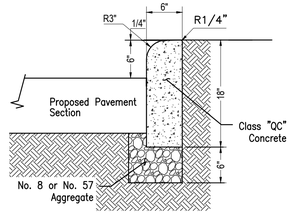
Not To Scale



Preformed Joint Material Only Needed When Curb Is Adjacent To Concrete.

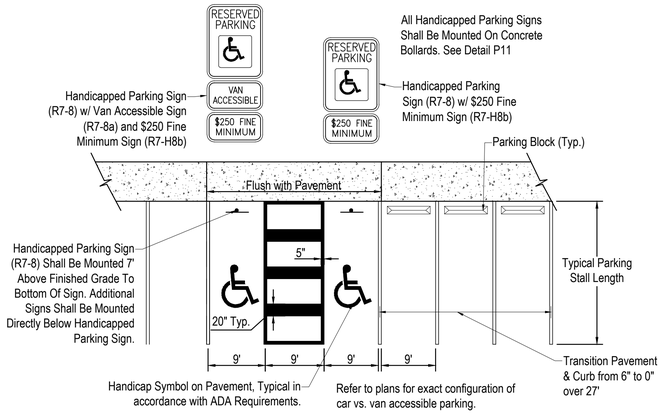
P6 ODOT TYPE "7" MODIFIED CONCRETE CURB

Not to Scale



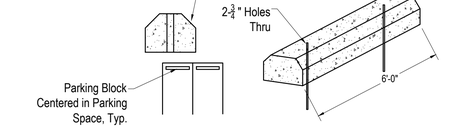
P7 STRAIGHT 18" CONCRETE CURB

NOT TO SCALE



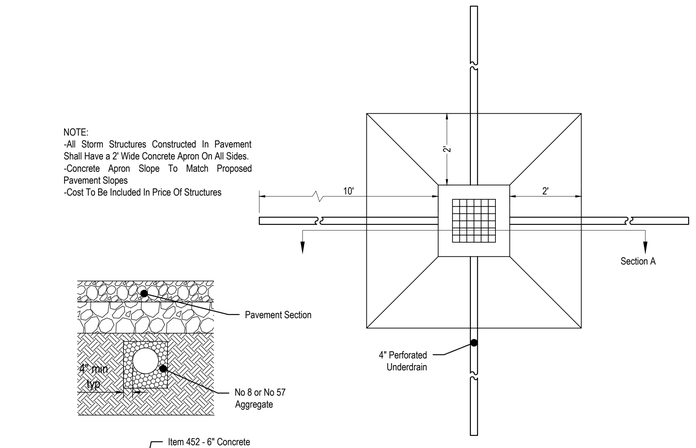
P9 HANDICAP PARKING STRIPING

Not to Scale



P8 PARKING BLOCK

Not to Scale

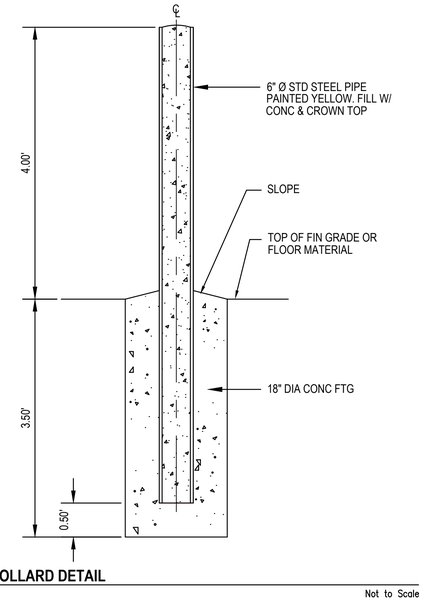


4" Perforated Underdrain shall be provided as follows:

4 directions at Structures:
3 directions at Structures:
The perforated pipe shall be protected from heavy traffic after installation prior to placement of proposed paving.

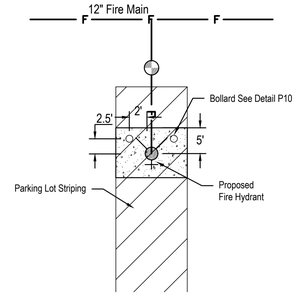
P10 FINGER DRAIN & CONCRETE COLLAR DETAIL

Not to Scale



P11 BOLLARD DETAIL

Not to Scale



P12 BOLLARD PLACEMENT

Not to Scale

CONTRACTOR SHALL COORDINATE WITH FIRE DEPARTMENT TO ENSURE THAT THE DETAIL ABOVE ALLOWS ADEQUATE ROOM FOR ACCESS TO HYDRANT PRIOR TO INSTALLATION. ANY MODIFICATIONS SHOULD BE COMMUNICATED TO THE ENGINEER.

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DEVELOPMENT PLANS FOR

PROLOGIS SOUTH PARK

SITE & PAVEMENT DETAILS — C2.02

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

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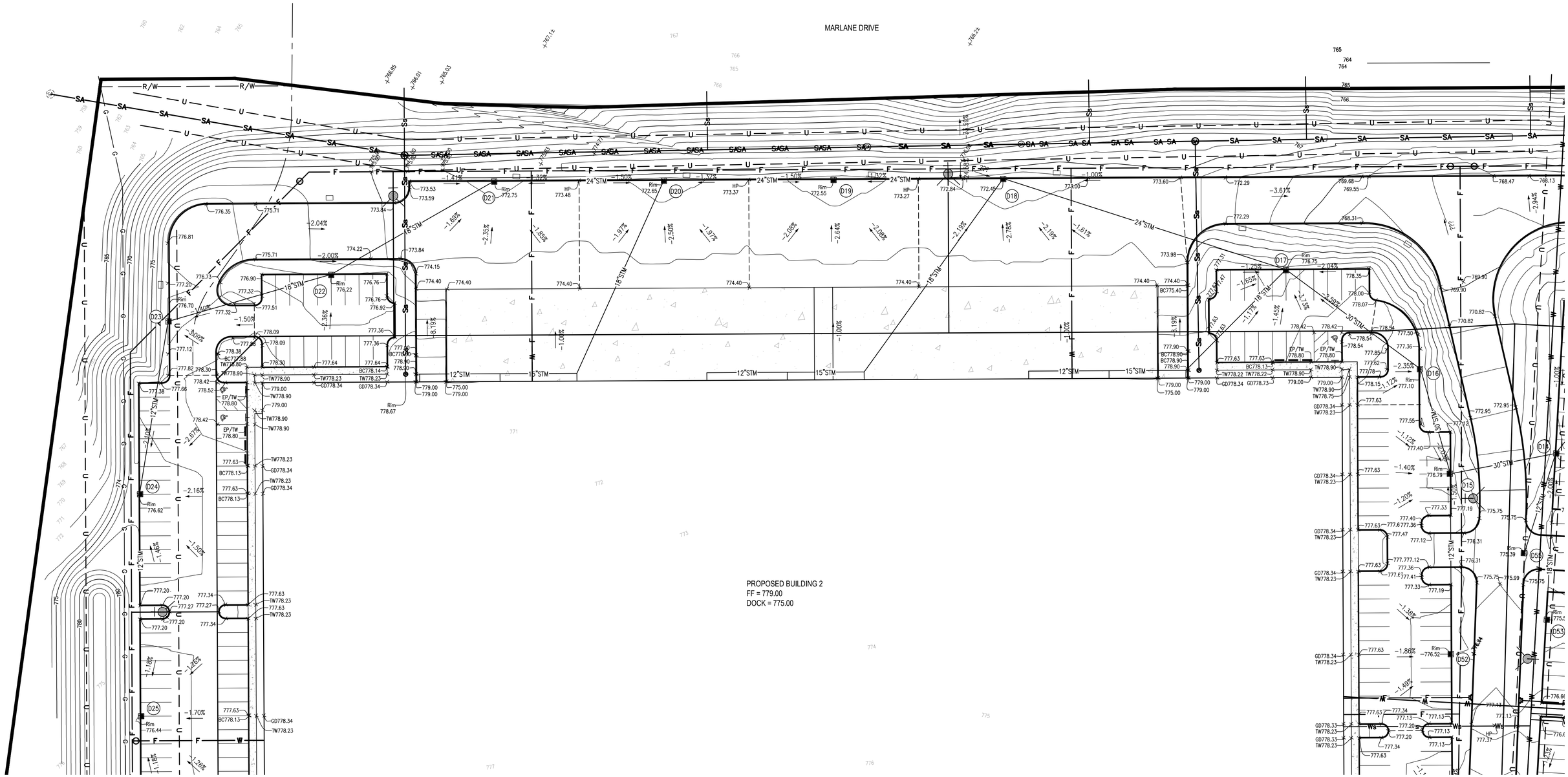

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FAX: (740) 344-5746
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LEGEND

TW	TOP OF WALK
GD	GROUND ELEVATION
BC	BACK OF CURB
GTW	GROUND TOP OF WALL
GBW	GROUND BOTTOM OF WALL
EP	EDGE OF PAVEMENT

0 30 60
HORIZONTAL SCALE IN FEET

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GRADING & DRAINAGE PLAN — C3.00

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

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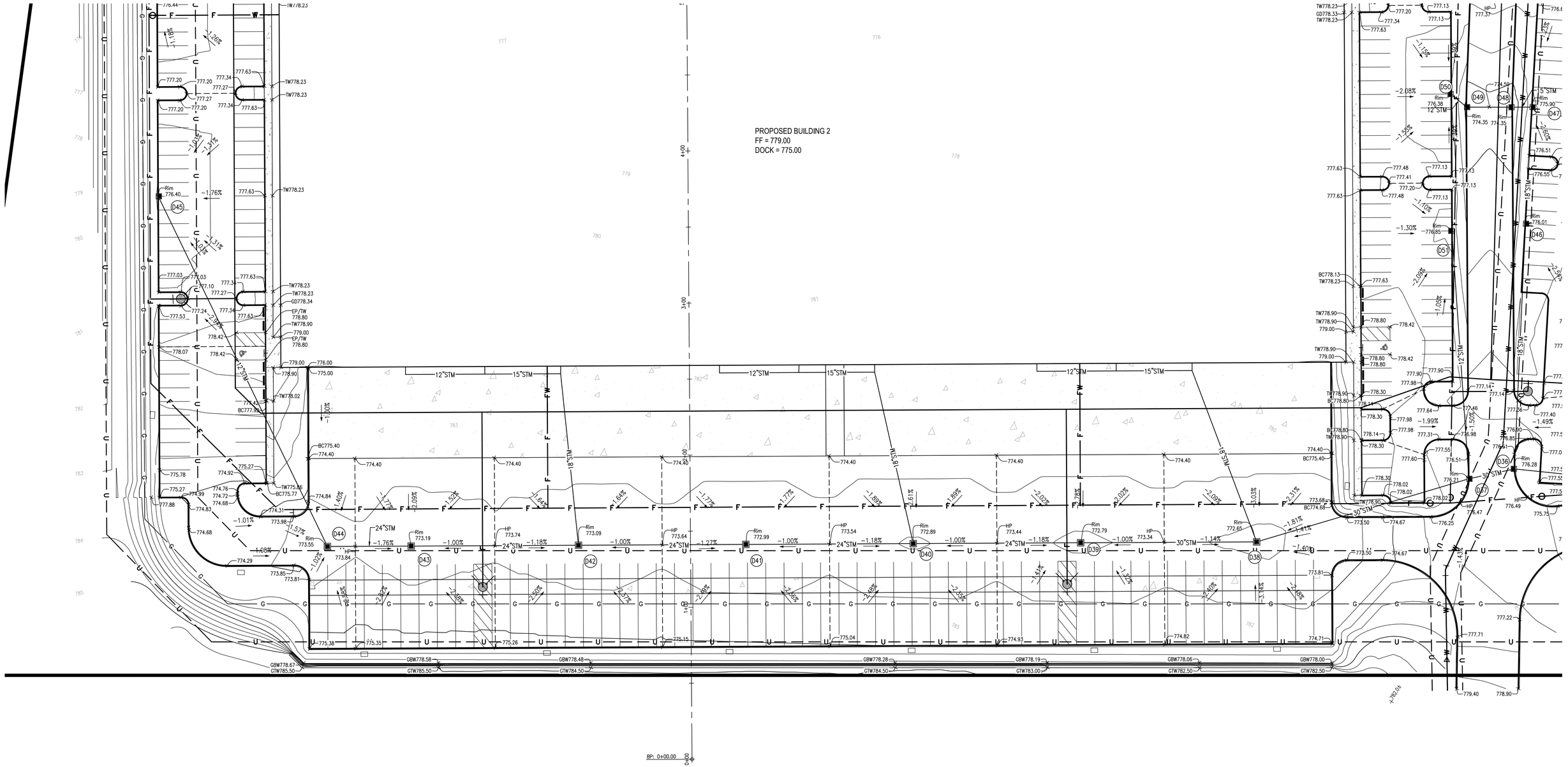

LEGEND

TW	TOP OF WALK
GD	GROUND ELEVATION
BC	BACK OF CURB
GTW	GROUND TOP OF WALL
GBW	GROUND BOTTOM OF WALL
EP	EDGE OF PAVEMENT

0 30 60
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GRADING & DRAINAGE PLAN — C3.01

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

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MARLANE DRIVE

PROPOSED BUILDING 1
FF = 778.50
DOCK = 774.50

LEGEND

TW	TOP OF WALK
GD	GROUND ELEVATION
BC	BACK OF CURB
GTW	GROUND TOP OF WALL
GBW	GROUND BOTTOM OF WALL
EP	EDGE OF PAVEMENT

0 30 60
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GRADING & DRAINAGE PLAN — C3.02

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

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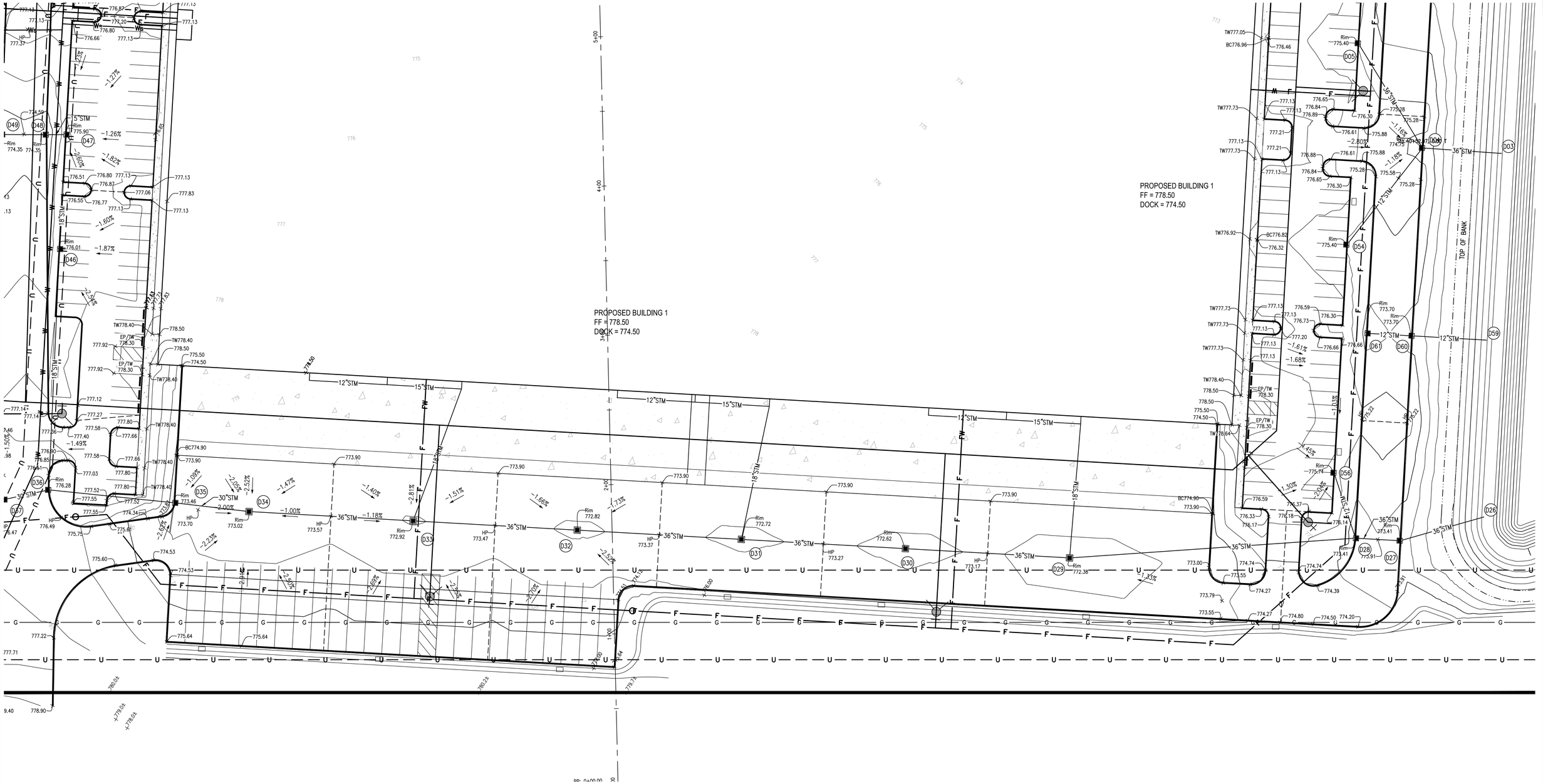

LEGEND

TW	TOP OF WALK
GD	GROUND ELEVATION
BC	BACK OF CURB
GTW	GROUND TOP OF WALL
GBW	GROUND BOTTOM OF WALL
EP	EDGE OF PAVEMENT

0 30 60
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR

PROLOGIS SOUTH PARK

GRADING & DRAINAGE PLAN — C3.03

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

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PROPOSED BUILDING 1
FF = 778.50
DOCK = 774.50

STORMWATER
RETENTION BASIN
NP=768

PROVIDE FOUNTAIN
AND AERATORS PER 6.7.4
OF THE CITY'S STORMWATER
DESIGN MANUAL

OUTLET
STRUCTURE

TOP OF BANK

LEGEND

TW	TOP OF WALK
GD	GROUND ELEVATION
BC	BACK OF CURB
GTW	GROUND TOP OF WALL
GBW	GROUND BOTTOM OF WALL
EP	EDGE OF PAVEMENT

0 30 60
HORIZONTAL SCALE
IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

GRADING & DRAINAGE PLAN — C3.04

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

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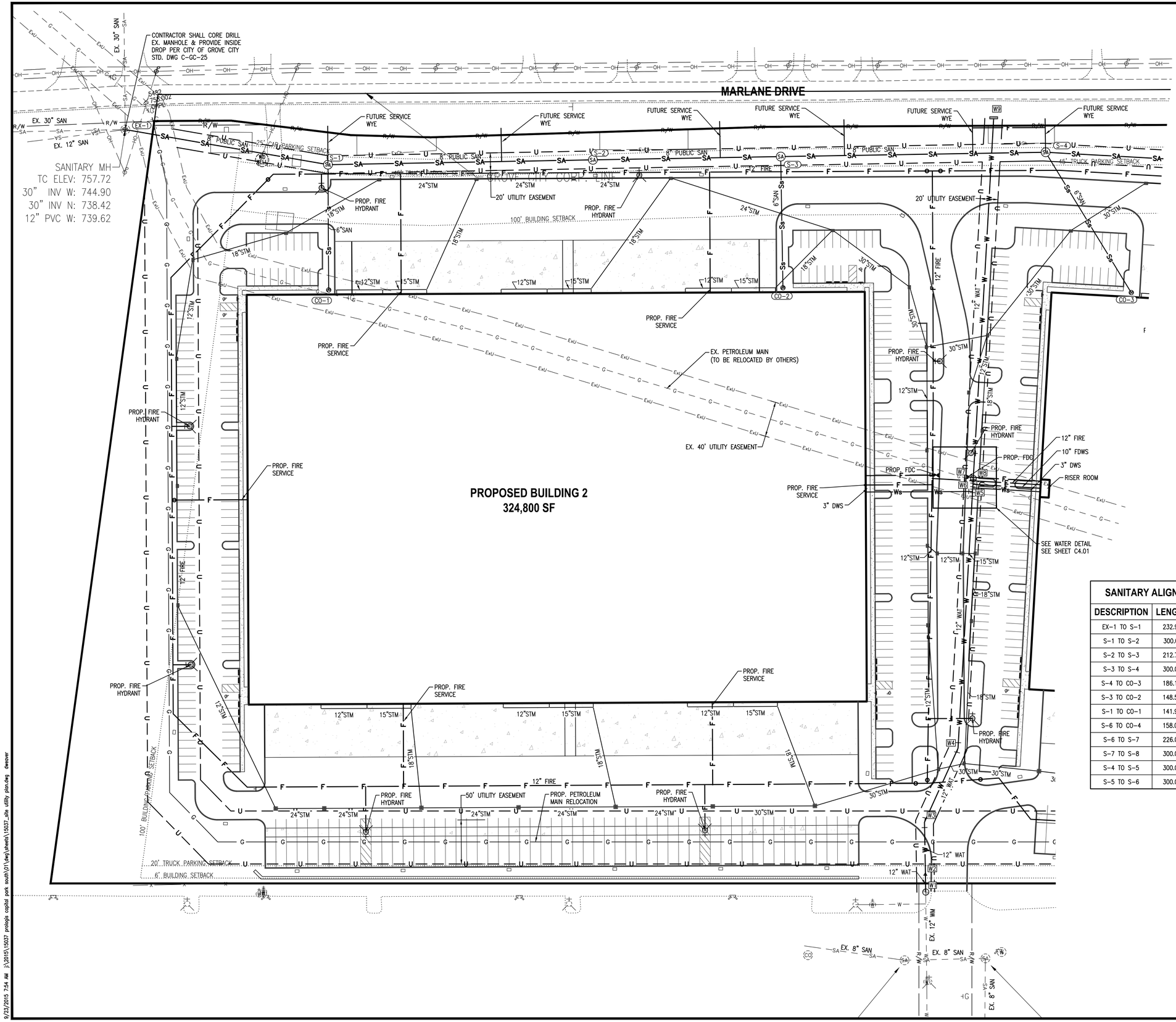

PUBLIC SANITARY SEWER STRUCTURE TABLE

NAME	DESCRIPTION	DETAILS	COORDINATES	ASBUILT COORDINATES
CO-1	CLEAN-OUT	RIM=778.67 6" (N)=768.90	N=691354.87 E=1813290.87	N= E=
CO-2	CLEAN-OUT	RIM=778.65 6" (N)=768.90	N=691245.95 E=1813793.66	N= E=
CO-3	CLEAN-OUT	RIM=769.24 6" (N)=768.50	N=691155.19 E=1814177.50	N= E=
CO-4	CLEAN-OUT	RIM=778.02 6" (N)=763.19	N=691008.24 E=1814698.71	N= E=
EX-1	EX. SAN. MH. W/ DROP G-GC-25	RIM=757.72 8" (E)=751.89 30" (N)=738.42 12" (W)=739.62 30" (W)=744.90	N=691582.15 E=1813105.40	N= E=
S-1	SAN. MH. C-GC-25	RIM=767.47 8" (W)=752.94 6" (S)=753.04 8" (E)=753.04	N=691493.65 E=1813320.87	N= E=
S-2	SAN. MH. C-GC-03	RIM=766.34 8" (W)=754.39 8" (E)=754.49	N=691433.99 E=1813614.88	N= E=
S-3	SAN. MH. C-GC-03	RIM=767.05 8" (W)=755.45 6" (S)=755.55 8" (E)=755.55	N=691391.53 E=1813823.38	N= E=
S-4	SAN. MH. C-GC-03	RIM=766.67 8" (W)=756.90 6" (S)=757.00 8" (E)=757.00	N=691331.36 E=1814117.28	N= E=
S-5	SAN. MH. C-GC-03	RIM=765.11 8" (W)=758.35 8" (E)=758.45	N=691250.25 E=1814406.11	N= E=
S-6	SAN. MH. C-GC-03	RIM=765.42 8" (W)=759.80 6" (S)=759.90 8" (SE)=760.23	N=691166.24 E=1814694.11	N= E=
S-7	SAN. MH.	RIM=766.83 8" (NW)=757.97 8" (SE)=757.87	N=691047.13 E=1814886.23	N= E=
S-8	SAN. MH.	RIM=766.99 8" (NW)=754.87	N=690856.74 E=1815118.08	N= E=

SANITARY ALIGNMENT TABLE

DESCRIPTION	LENGTH	BEARING
EX-1 TO S-1	232.94	S67° 40' 07.77"E
S-1 TO S-2	300.01	S78° 31' 52.14"E
S-2 TO S-3	212.78	S78° 29' 13.13"E
S-3 TO S-4	300.00	S78° 25' 47.95"E
S-4 TO CO-3	186.18	S18° 52' 18.47"E
S-3 TO CO-2	148.58	N11° 32' 20.42"E
S-1 TO CO-1	141.98	N12° 11' 51.80"E
S-6 TO CO-4	158.06	S01° 40' 04.42"E
S-6 TO S-7	226.05	S58° 12' 07.52"E
S-7 TO S-8	300.00	S50° 36' 25.07"E
S-4 TO S-5	300.00	S74° 18' 52.40"E
S-5 TO S-6	300.00	S73° 44' 15.88"E

0 50 100
HORIZONTAL SCALE IN FEET

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Newark, Ohio 43055
PH: (740) 344-5451
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www.jobeshenderson.com

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SITE UTILITY PLAN — C4.00

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/23/2015 7:54 AM P:\2015\15037 prologis capital park south\01\dwg\sheets\15037_site utility plan.dwg dwoover

MARLANE DRIVE

GROVE CITY CORP LINE

25' CAR PARKING SETBACK

45' TRUCK PARKING SETBACK

100' BUILDING SETBACK

20' UTILITY EASEMENT

8" PUBLIC SAN

FUTURE SERVICE WYE

PROP. FIRE HYDRANT

PROP. FIRE SERVICE

PROP. FDC

SEE WATER DETAIL
SEE SHEET C4.01

PROPOSED BUILDING 1
324,000 SF

PROPOSED RETENTION BASIN

20' TRUCK PARKING SETBACK

6' BUILDING SETBACK

100' BUILDING/PARKING SETBACK

EX. 12" WM

EX. 8" SAN

WATER STRUCTURE TABLE

NAME	DESCRIPTION	COORDINATES	ASBUILT COORDINATES
W1	12" GATE VALVE	N=690542.89 E=1813803.29	N= E=
W2	12" TO 10" REDUCER	N=690561.35 E=1813807.05	N= E=
W3	22.5 DEGREE BEND	N=690620.47 E=1813819.08	N= E=
W4	22.5 DEGREE BEND	N=690694.09 E=1813874.34	N= E=
W5	10"x3" TEE	N=690974.23 E=1813953.32	N= E=
W6	10"x3" TEE	N=690978.17 E=1813954.43	N= E=
W7	10"x10" TEE	N=690982.02 E=1813955.52	N= E=
W8	10" GATE VALVE	N=690988.28 E=1813957.28	N= E=
W9	STUB	N=691380.95 E=1814067.99	N= E=

CITY OF COLUMBUS WATER SERVICE PLAN NOTES

1. NO WATER SERVICE CONSTRUCTION, BEFORE OR AFTER METER(S), SHALL BEGIN PRIOR TO THE WATER SERVICE PERMIT(S) BEING ISSUED AND FEE PAYMENT(S) TO THE COLUMBUS DIVISION OF WATER.

2. SITE UTILITY CONTRACTOR INSTALLING ANY WATER SERVICE PIPE FROM WATER MAIN THRU AND AFTER METER(S) SHALL HAVE A CURRENT CITY OF COLUMBUS WATER SERVICE LICENSE PER THE COLUMBUS CITY CODE 1103.

3. THE CITY OF COLUMBUS "C.M.S.C." 2012 EDITION SHALL GOVERN ALL WATER SERVICE WORK FROM WATER MAIN TO AND INCLUDING THE METER(S) AND METER BYPASS AND BACKFLOW PREVENTER(S).

4. THERE SHALL BE A MINIMUM TEN FOOT HORIZONTIAL AND 18 INCH VERTICAL SEPARATION BETWEEN WATER TAPS, WATER SERVICES, PRIVATE WATER SYSTEMS AND ANY SANITARY AND/OR STORM SEWER SYSTEMS PER THE CURRENT TEN STATES STANDARDS 8.8.2 AND 8.8.3.

5. SITE UTILITY CONTRACTOR SHALL CALL 614-645-5781 TO REQUEST AN INSPECTION OF THE NEW 6" X 4" TAPPING SLEEVE AND VALVE AND PRESSURE TEST. A 24 HOUR ADVANCE NOTICE IS REQUIRED.

6. SITE UTILITY CONTRACTOR SHALL CALL 614-645-5781 FOR INSPECTION OF 3" AND LARGER DOMESTIC AND/OR FIRE PROTECTION WATER SERVICES AND/OR PRESSURE TESTS FROM RIGHT OF WAY VALVES THRU THE METERS. A 24 HOUR ADVANCE NOTICE IS REQUIRED.

7. ALL 3" THRU 12" WATER SERVICE PIPE SHALL BE DUCTILE IRON FROM WATER MAIN THRU METER SETTING(S) INCLUDING THE METER BYPASS.

8. ALL 2" AND SMALLER WATER SERVICE PIPE SHALL BE K SOFT COPPER FROM WATER MAIN THRU CURB STOP AND K SOFT COPPER OR A DIVISION OF WATER APPROVED POLYTUBING FROM CURB STOP THRU METER.

9. SITE UTILITY CONTRACTOR SHALL CALL 614-645-7330 FOR INSPECTION OF 2" AND SMALLER WATER SERVICES AND/OR WATER SERVICE TAPS FROM WATER MAIN OR CURB STOP THRU METER SETTING(S). A 24 HOUR ADVANCE NOITCE IS REQUIRED.

10. 2" AND LARGER METER SETTINGS SHALL BE PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-6317 A THRU E DATED 5/16/13.

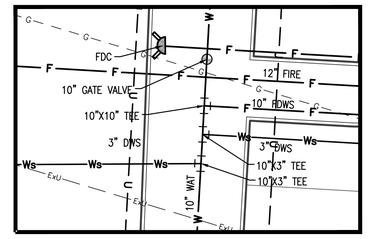
11. BACKFLOW PREVENTION AT THE SITE SHALL BE INSTALLED AS DETERMINED TO BE REQUIRED PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-9002 A THRU G DATED 5/16/13. CONTRACTOR SHALL CALL 614-645-6674 WITH INSTALLATION QUESTIONS. BACKFLOW INSPECTION REQUEST(S) SHALL BE MADE AT 614-645-5781 AND A 24 HOUR ADVANCE NOTICE IS REQUIRED.

12. EXISTING WATER MAIN EASEMENT AND RIGHT OF WAY LINE(S) SHALL BE STAKED AT 10 FOOT INCREMENTS BY A STATE OF OHIO LICENSED SURVEYOR WHEN THE WATER MAIN SERVICE TAP AND/OR WATER SERVICE(S) ARE INSTALLED AND INSPECTED BY THE COLUMBUS DIVISION OF WATER.

13. ALL EXPOSED WATER MAIN AND ALL WATER SERVICE PIPE 3" AND LARGER SHALL BE POLYWRAPPED PER AWWA SPEC C-105 TO A POINT 10' PAST THE RIGHT OF WAY VALVE(S).

14. WATER SERVICE(S) SHALL BE FLUSHED BY THE SITE UTILITY CONTRACTOR PRIOR TO METER INSTALLATION. ANY METER DAMAGE CAUSED BY NON-FLUSHING SHALL BE PAID BY THE SITE UTILITY CONTRACTOR.

15. WATER SERVICE SURVEY COORDINATE TABLE SHALL INCLUDE THE HORIZONTAL LOCATION (NORTHING, EASTING) SURVEY COORDINATES FOR THE PROPOSED WATER SERVICE IMPROVEMENT. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE PROPOSED WATER SERVICE(S) AND SHALL INCLUDE ALL TAPPING SLEEVES, TEES, VALVES, FIRE HYDRANTS, BENDS, DEFLECTIONS, REDUCERS, PLUGS/CAPS, AND BUILDING ENTRY POINTS FROM THE CITY MAIN AND THROUGH THE METER SETTING. ALSO, BEYOND THE METER SETTING ANY PRIVATE HYDRANTS SHALL BE SHOWN ON THIS TABLE AS WELL. ALL SURVEY COORDINATES SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (1986) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYTEM, SOUTH ZONE. ALL COORDINATES (NORTHING, EASTING) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXXX.XX, E XXXXXX.XX). ALL SURVEY COORDIANTES SHALL BE ACCURATE TO WITHIN 1.0 FOOT OR LESS.



WATER DETAIL
SCALE: 1"=10'

0 50 100
HORIZONTAL SCALE IN FEET

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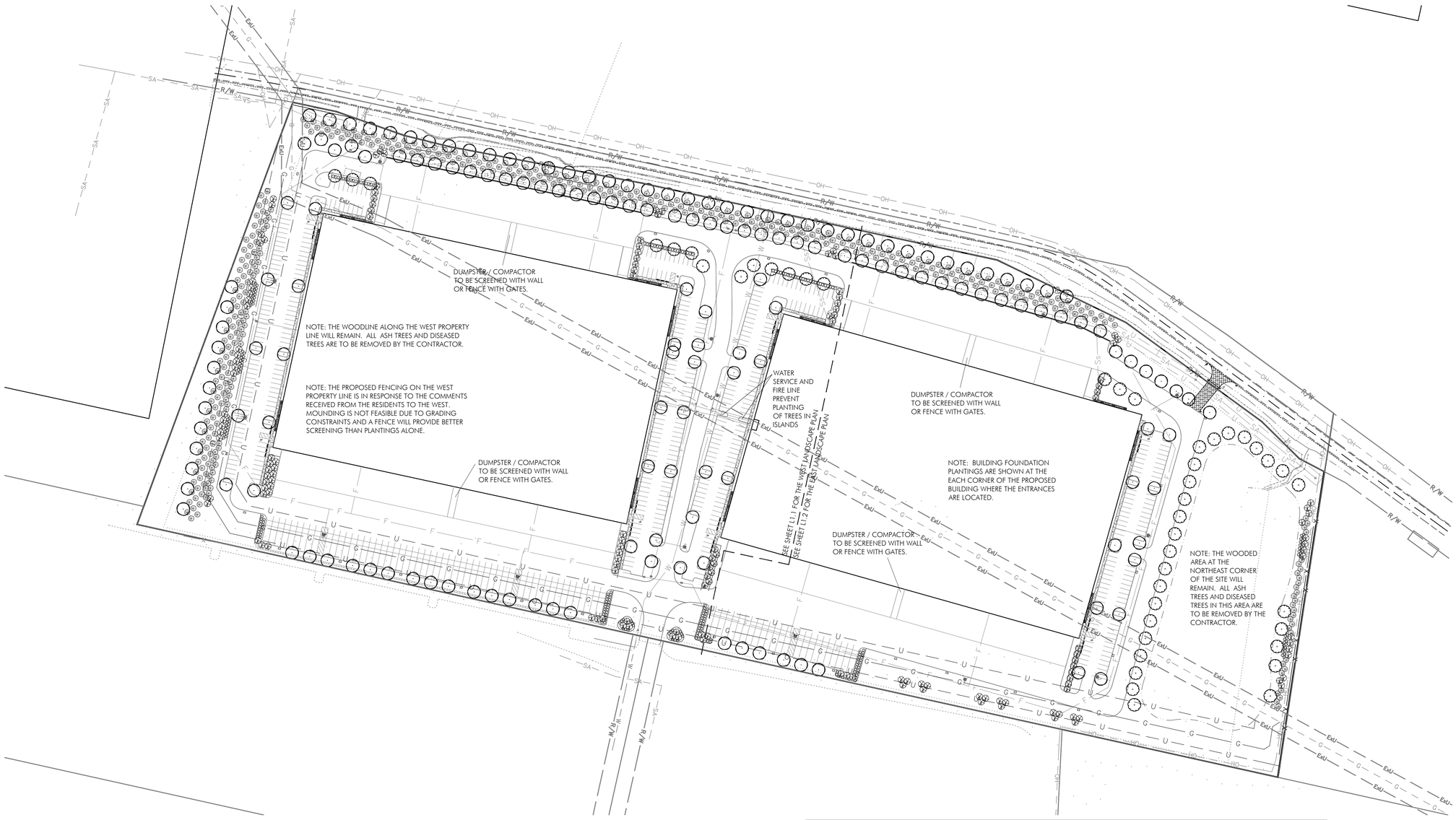

CITY STANDARD NOTES

1. Contractor shall protect existing vegetation protection areas. No construction access to and activities (including stockpiling or disposal of construction material) in existing vegetation protection areas) is permitted. (1136.05)

2. Service structures, including, but not limited to, propane tanks, trash dumpsters, electrical transformers, air conditioners/cooling towers, heat pumps, utility vaults which extend above grade, and other equipment or elements providing service to a building or site, are to be screened in all zoning districts. A continuous 100% opaque landscape hedge, solid fence, wall, or earthen mound is required to enclose any service structure on all exposed sides. If such structure is frequently moved (i.e.: trash dumpster) a gate or gates shall be permitted on one side. Said gate(s) shall be kept closed to provide full 4-sided screening. Screening shall be one foot (1'-0") higher than service structure but shall not be required to exceed 8'- 0" in height (6'- 0" height for walls and fences.). If walls or fences are used, supplemental landscaping will be required. Provide 36' height minimum plantings at 5'- 0" maximum spacing around the enclosed portion of the perimeter screen. Curbing and/or bollards are to be installed around any trash disposal or waste collection unit a minimum of 2'- 0" within the screening material to prevent damage to the screening when the container is moved or emptied. Electric and gas service shut-off locations shall be landscaped on the sides only to permit quick identification and access by emergency personnel. (1136.06)

3. Tree Planting Typical. All ropes and burlap, and 50% wire cage of the burlap shall be removed from the trees prior to the City's landscape inspection.

KEY:

- EXISTING TREE TO REMAIN
- PROPOSED LARGE TREE
- PROPOSED MEDIUM SIZE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS SHRUB
- PROPOSED EVERGREEN SHRUB
- PROPOSED PERENNIAL
- PROPOSED 6 FOOT HIGH SOLID VINYL FENCE

0 50 100 200 300

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OHIO UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-362-2764

PLANT INSTALLATION NOTES

1. Contractor to verify with the owner's representative and utility companies the locations of the existing utilities prior to start. Call Ohio Utilities Protection Services at (800)362-2764. Contractor to repair all damages to existing utilities, curbs, pavements, etc. resulting from landscape installations which occur during the construction of the project.

2. Plant material shall be furnished in the quantities and/or spacing as shown or noted. In case of discrepancies between the plan and the plant list, the plan shall dictate.

3. Contractor shall verify sizes and locations of all site elements and immediately inform the owner's representative of any discrepancy between the drawings and/or specifications and actual conditions. No work shall be done in any area where there is a discrepancy without owner's representative approval.

4. Base information provided by Advanced Civil Design

5. Contractor shall be responsible for all finish grading in the project required to provide a proper seed and planting bed.

6. Contractor shall provide the following soil amendments:

Soil Amendment: 'Com-Til' organic compost (or equal)
7000 State Route 104
South Lockbourne, Ohio 43137
(614) 645-3152

Wetland Soil Mix: Raingarden 531 Soil Mixture
Kurtz Brothers Soil
6279 Houchard Rd, Dublin, OH
(614) 873-2000
See Specifications

Turf & Shrub Bed areas: Spread 3" of 'Com-Til' over new landscape areas and incorporate into the top 8" of the soil by mechanical tiller.

Trees and Shrubs: Mix 30% 'Com-Til' to 70% existing soil from plant pit excavation. If excavated soil is not suitable, supplement with imported topsoil.

7. All plant material to meet or exceed American Standard for Nursery Stock, 1986 edition, as set forth by American Association of Nurserymen.

8. All plant materials subject to inspection prior, during and after installation. Any plant not meeting the requirements will be cause for rejection by the owner's representative. All rejected plants shall be immediately removed and disposed of by the contractor and the replacement material shall be provided.

9. All substitutions and plan changes must be approved by owner's representative prior to any action taken. Trees shall be protected and handled carefully at all times during transport & handling to prevent drying of tree or root ball by winds and to prevent any damage or breakage of the root ball. Bark shall be protected from bruising or abrasion.

10. Water trees immediately after planting and continue to water until final acceptance by owner's representative.

11. Plant locations and beds shall be located by contractor and approved by owner's representative prior to plant installation.

12. Bed line to be 18" from base of plant material unless otherwise indicated on the drawings.

13. All shrub and bed areas to be mulched with two inches (2") depth minimum shredded hardwood mulch. Submit sample to owner for approval.

14. All areas outside of planting beds shall be seeded or sodded as shown on the plans and noted in the technical specifications.

15. Finished turf (sod or seed) to be flush with top of adjacent curb or walk. coordinate with owner's representative in field as required.

16. The contractor shall guarantee all trees, shrubs and ground covers for a period of one (1) year from date of final acceptance. Replace material within seven (7) days of notification of the owner's representative.

17. Perform cleaning during installation of landscape work and upon completion. Remove from site all excess landscape related material, soil debris and equipment. Repair damage resulting from landscaping operations. Sweep and hose down paved surfaces affected by landscaping operations. Coordinate with owner's representative and other contractors for final cleanup prior to cleaning.

18. Maintenance: The landscape contractor shall maintain the completed landscape and irrigation systems until the date of final acceptance.

a. Mowing - Minimum once per week, except in future expansion areas which will require a minimum of once per three weeks.

b. Trimming - Shrubs, trees, ground covers, perennials, and annuals, minimum two times per year or as required.

c. Fertilizing - Apply fertilizer at a rate equal to 1 lb. of actual nitrogen/1000 s.f. in the spring and fall to all turf and plantings except in future expansion turf areas (where applicable).

d. Bed Edging - Edge all beds by hand, spade at least two times per year and top-mulch with dress wood mulch in fall and spring.

SITE DATA:

AREA TITLE	AREA/SIZE	AMENITIES REQUIRED	AMENITIES PROVIDED	CODE REFERENCE: CO-CGC
North - Front Yard	2,157 LF	Continuous 3' height evergreen hedge and (1) large or medium class tree for every 35 LF of frontage and front yard screening with a 10 foot mound, 3 rows of evergreen trees, and (1) large or medium class trees for every 40 LF of frontage.	Continuous evergreen hedge along parking lots & 62 large or medium class trees. 10 foot mound with 240 evergreen trees and 39 shade trees for screening	Section 1036.06 (a) (2)
South - Rear Yard	2,260 LF	(1) large or medium class tree & (2) deciduous shrubs for every 40 LF of property line.	57 large or medium trees, 114 deciduous shrubs	Section 1036.06 (b)
West - Side Yard	871 LF to ROW	Preserved woodline, (1) small class tree, (2) 6' evergreen trees, & (2) deciduous shrubs for every 40 LF of property line and side yard screening with a 6 foot mound, 3 rows of evergreen trees, and (1) large or medium class trees for every 40 LF of frontage.	22 small class trees, 44 evergreen trees, & 44 deciduous shrubs. 6' mound with 95 evergreen trees and 12 shade trees for parking lot screening.	Section 1036.06 (c)
East - Side Yard	598 LF to ROW	6' privacy fence, (1) small class tree, (2) 6' evergreen trees, & (2) deciduous shrubs for every 40 LF of property line.	446 LF of 6' high solid vinyl fence, 15 small class trees, 30 evergreen trees, & 30 deciduous shrubs	Section 1036.06 (c)
Interior Parking Lot	585 parking spaces	Two islands for 60 spaces + one island for every 15 spaces thereafter = 37 islands required. Each island to contain (1) large or medium tree.	Each island planted with a large or medium tree except 2 islands where proposed water service is below islands.	Section 1136.06 (d)
Building Foundation	4668 LF (perimeter)	(1) tree for every 60 LF of building perimeter & (20) SF of landscape area with ornamental trees, shrubs, and perennials or every 50 LF of building perimeter.	78 trees and 1,868 SF of landscape beds with ornamental trees, shrubs, and perennials	Section 1136.09 (a) (4)
Detention Pond	1,400 LF	(1) tree for every 50 LF of retention pond perimeter.	28 trees	Section 1136.09 (c)

ABBREVIATIONS:
CO-CGC - Codified Ordinance of the City of Grove City, Ohio, April 20, 2015
LF - Lineal Feet
ROW - Right-of-Way

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f 614.255.3999
Cincinnati
10816 Millington Court, Ste 118
Cincinnati, Ohio 45242
p 919.853.7788
f 704.625.1343
PODdesign.net

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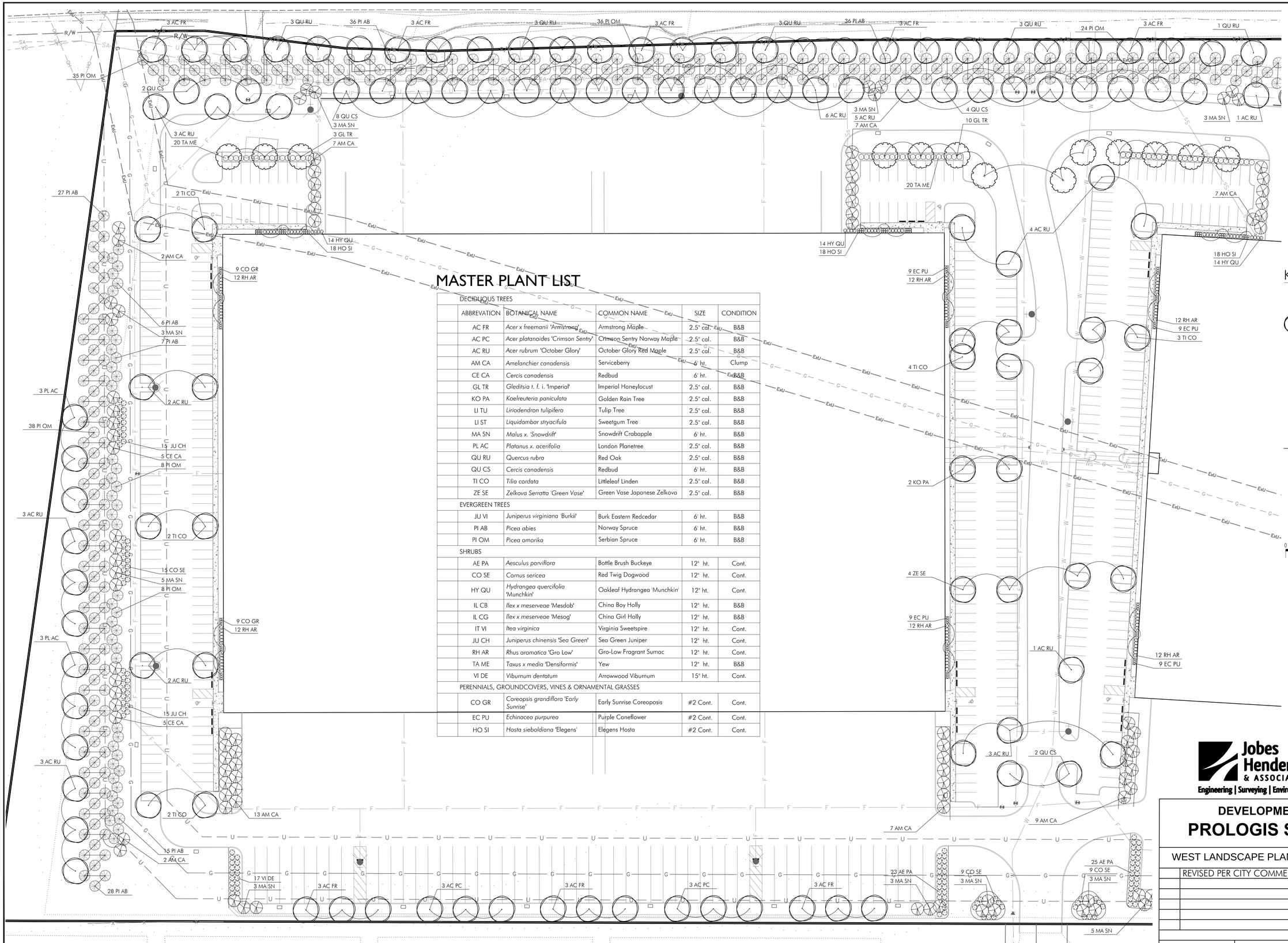
DEVELOPMENT PLAN FOR PROLOGIS SOUTH PARK

OVERALL REFERENCE PLAN | L1.0

	REVISED PER CITY COMMENTS	10/22/15



MASTER PLANT LIST

	ABBREVATION	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
DECIDUOUS TREES					
	AC FR	*Acer x freemanii 'Armstrong'*	Armstrong Maple	2.5" cal.	B&B
	AC PC	*Acer platanoides 'Crimson Sentry'*	Crimson Sentry Norway Maple	2.5" cal.	B&B
	AC RU	*Acer rubrum 'October Glory'*	October Glory Red Maple	2.5" cal.	B&B
	AM CA	*Amelanchier canadensis*	Serviceberry	6' ht.	Clump
	CE CA	*Cercis canadensis*	Redbud	6' ht.	B&B
	GL TR	*Gleditsia t. f. i. 'Imperial'*	Imperial Honeylocust	2.5" cal.	B&B
	KO PA	*Koelreuteria paniculata*	Golden Rain Tree	2.5" cal.	B&B
	LI TU	*Liriodendron tulipifera*	Tulip Tree	2.5" cal.	B&B
	LI ST	*Liquidambar stryacifula*	Sweetgum Tree	2.5" cal.	B&B
	MA SN	*Malus x. 'Snowdrift'*	Snowdrift Crabapple	6' ht.	B&B
	PL AC	*Platanus x. acerifolia*	London Planetree	2.5" cal.	B&B
	QU RU	*Quercus rubra*	Red Oak	2.5" cal.	B&B
	QU CS	*Cercis canadensis*	Redbud	6' ht.	B&B
	TI CO	*Tilia cordata*	Littleleaf Linden	2.5" cal.	B&B
	ZE SE	*Zelkova Serratta 'Green Vase'*	Green Vase Japanese Zelkova	2.5" cal.	B&B
EVERGREEN TREES					
	JU VI	*Juniperus virginiana 'Burkii'*	Burk Eastern Redcedar	6' ht.	B&B
	PI AB	*Picea abies*	Norway Spruce	6' ht.	B&B
	PI OM	*Picea omorika*	Serbian Spruce	6' ht.	B&B
SHRUBS					
	AE PA	*Aesculus parviflora*	Bottle Brush Buckeye	12" ht.	Cont.
	CO SE	*Cornus sericea*	Red Twig Dogwood	12" ht.	Cont.
	HY QU	*Hydrangea quercifolia 'Munchkin'*	Oakleaf Hydrangea 'Munchkin'	12" ht.	Cont.
	IL CB	*Ilex x meserveae 'Mesdob'*	China Boy Holly	12" ht.	B&B
	IL CG	*Ilex x meserveae 'Mesog'*	China Girl Holly	12" ht.	B&B
	IT VI	*Itea virginica*	Virginia Sweetspire	12" ht.	Cont.
	JU CH	*Juniperus chinensis 'Sea Green'*	Sea Green Juniper	12" ht.	Cont.
	RH AR	*Rhus aromatica 'Gro Low'*	Gro-Low Fragrant Sumac	12" ht.	Cont.
	TA ME	*Taxus x media 'Densiformis'*	Yew	12" ht.	B&B
	VI DE	*Viburnum dentatum*	Arrowwood Viburnum	15" ht.	Cont.
PERENNIALS, GROUNDCOVERS, VINES & ORNAMENTAL GRASSES					
	CO GR	*Coreopsis grandiflora 'Early Sunrise'*	Early Sunrise Coreoposis	#2 Cont.	Cont.
	EC PU	*Echinacea purpurea*	Purple Conetflower	#2 Cont.	Cont.
	HO SI	*Hosta sieboldiana 'Elegens'*	Elegens Hosta	#2 Cont.	Cont.

KEY:

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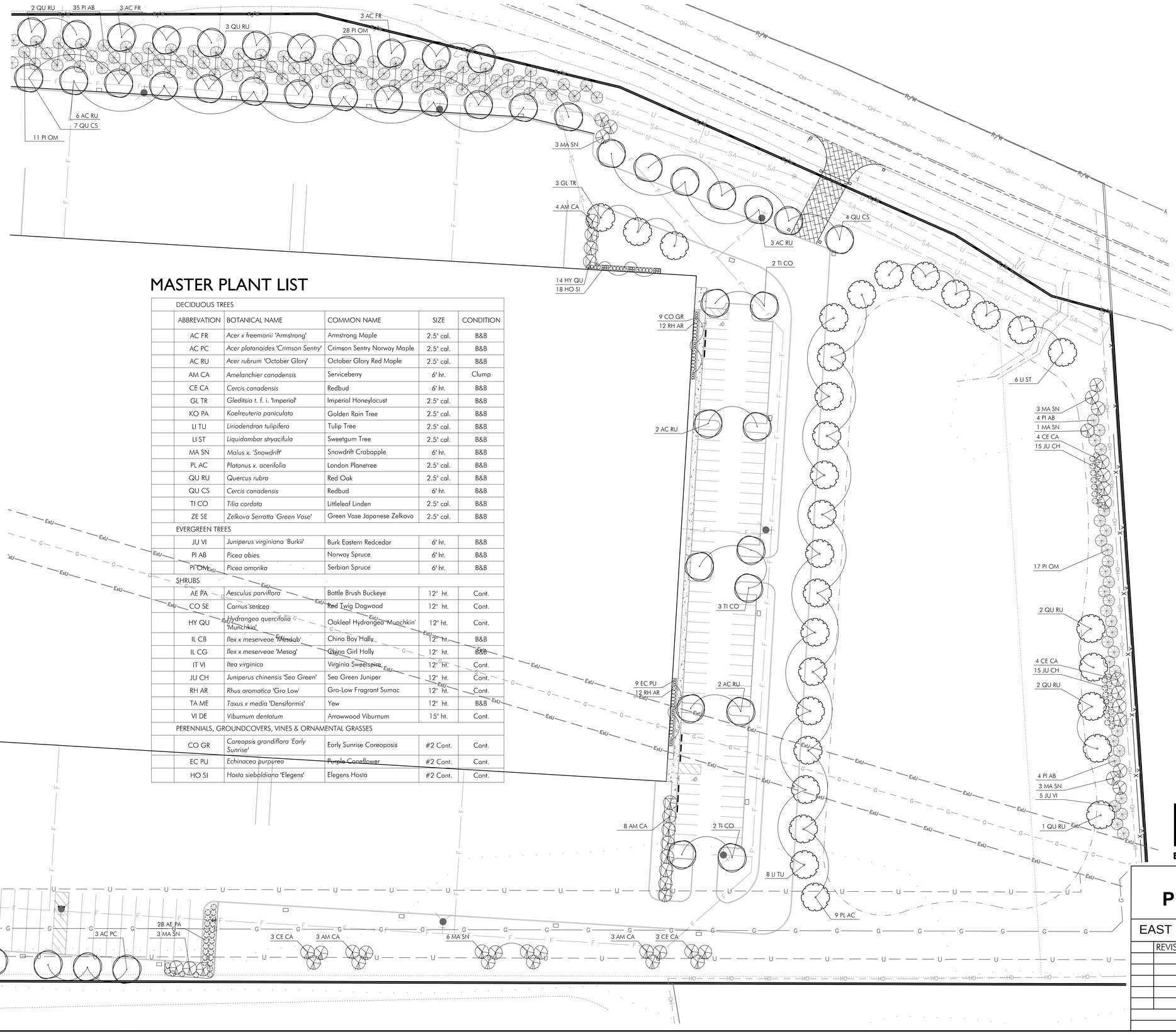
DEVELOPMENT PLAN FOR
PROLOGIS SOUTH PARK

WEST LANDSCAPE PLAN | L1.1

	REVISED PER CITY COMMENTS	10/22/15



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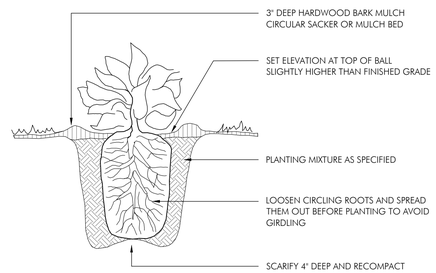
DEVELOPMENT PLAN FOR
PROLOGIS SOUTH PARK

EAST LANDSCAPE PLAN | L1.2

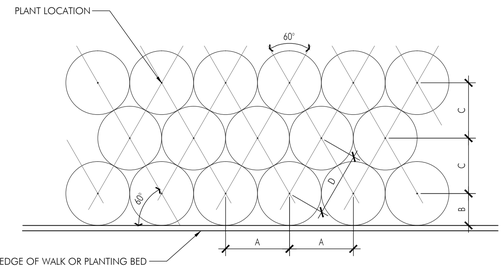
	REVISED PER CITY COMMENTS	10/22/15



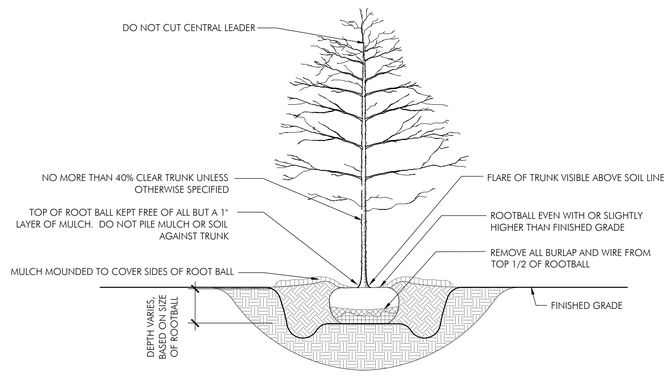
Perennial Planting
N.T.S.

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

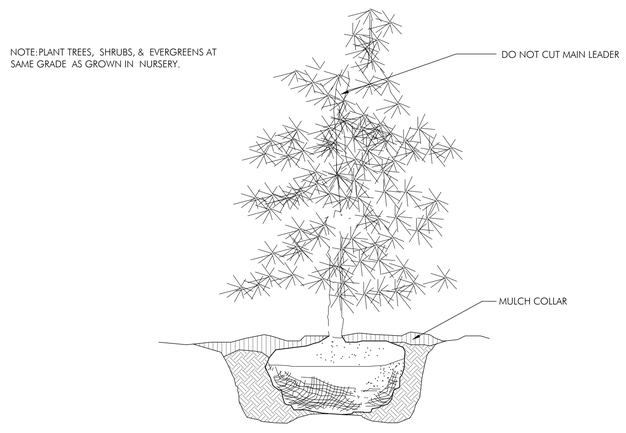
A= SPACING
B= SP/2
C= SP/1.2
D= SPACING



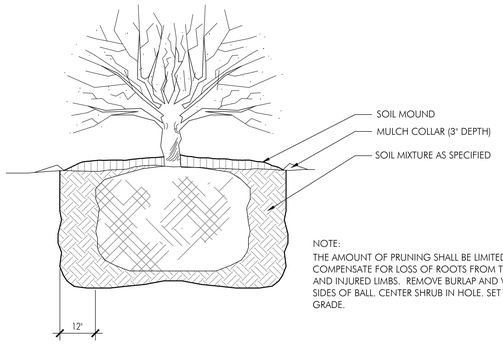
Perennial Spacing
N.T.S.



Tree Planting
N.T.S.



Evergreen Planting
N.T.S.



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

Shrub Planting
N.T.S.

POD design

Columbus
100 Northwoods Blvd, Ste A
Columbus, Ohio 43235
p 614.255.3399
f 614.255.3999

Cincinnati
10816 Millington Court, Ste 118
Cincinnati, Ohio 45242
p 919.853.7788
f 704.625.1343

PODdesign.net

Jobes Henderson & ASSOCIATES
Engineering | Surveying | Environmental

59 Grant Street
Newark, Ohio 43055
PH: (740) 344-5451
FAX: (740) 344-5746
www.jobeshenderson.com

DEVELOPMENT PLAN FOR
PROLOGIS SOUTH PARK

LANDSCAPE DETAILS	L1.3
REVISED PER CITY COMMENTS	10/22/15

LEGEND

- PERIMETER FILTER FABRIC FENCE (FF)
- TREE PROTECTION CONSTRUCTION FENCE (CF)
- INLET PROTECTION (SPECIFIC METHOD DEPENDENT UPON STRUCTURE TYPE & LOCATION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHANNEL PROTECTION (OP)
- LIMITS OF DISTURBANCE
- (PS) PERMANENT SEEDING
- (AS) PERMANENT SEEDING
- STRAW BALE DITCH CHECK (DC)
- PROPOSED FLOOD ROUTING
- PROPOSED DRAINAGE FLOW
- CWA CONCRETE WASHOUT AREA

MODIFICATION LOG		
DESCRIPTION	DATE	INITIALS

0 100 200
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SWPPP		C5.00
NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070		JOB NUMBER: 15037.01
DRAWN: DMW	CHECKED: AES	DATE: 09/28/2015

9/15/2015 10:14 AM j:\2015\15037 prologis capital park south\01\dwg\sheets\15037_swppp.dwg dweaver

MARLANE DRIVE

PROPOSED BUILDING 1
324,000 SF
FF=778.5'
DOCK=774.5'

PROPOSED RETENTION POND
NP=764.0'

SOUTHGATE PLACE

25' CAR PARKING SETBACK
45' TRUCK PARKING SETBACK
100' BUILDING SETBACK
GROVE CITY CORP LINE
20' TRUCK PARKING SETBACK
6' BUILDING SETBACK
100' BUILDING/PARKING SETBACK

LEGEND

- PERIMETER FILTER FABRIC FENCE (FF)
- TREE PROTECTION CONSTRUCTION FENCE (CF)
- INLET PROTECTION (SPECIFIC METHOD DEPENDENT UPON STRUCTURE TYPE & LOCATION) (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHANNEL PROTECTION (OP)
- LIMITS OF DISTURBANCE
- PERMANENT SEEDING (PS)
- PERMANENT SEEDING (AS)
- STRAW BALE DITCH CHECK (DC)
- PROPOSED FLOOD ROUTING
- PROPOSED DRAINAGE FLOW
- CONCRETE WASHOUT AREA (CWA)

0 100 200
HORIZONTAL SCALE IN FEET

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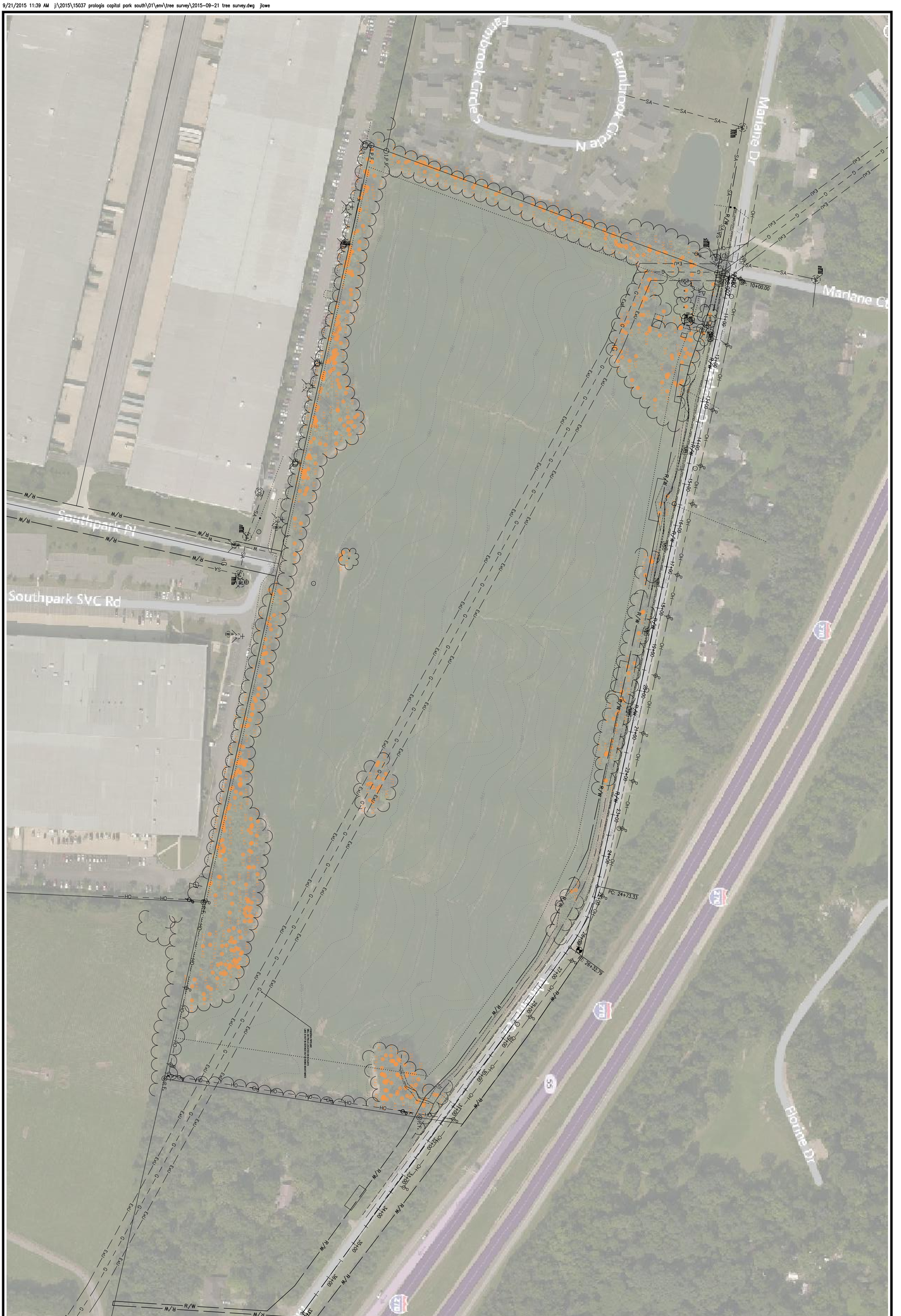
DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SWPPP — **C5.01**

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 10:14 AM J:\2015\15037 prologis capital pond, south\01\dwg\sheets\15037_swppp.dwg dwoover



1

JOB NUMBER 15037.01

CAPITAL PARK SOUTH

TREE SURVEY

EXISTING TREE SURVEY EXHIBIT

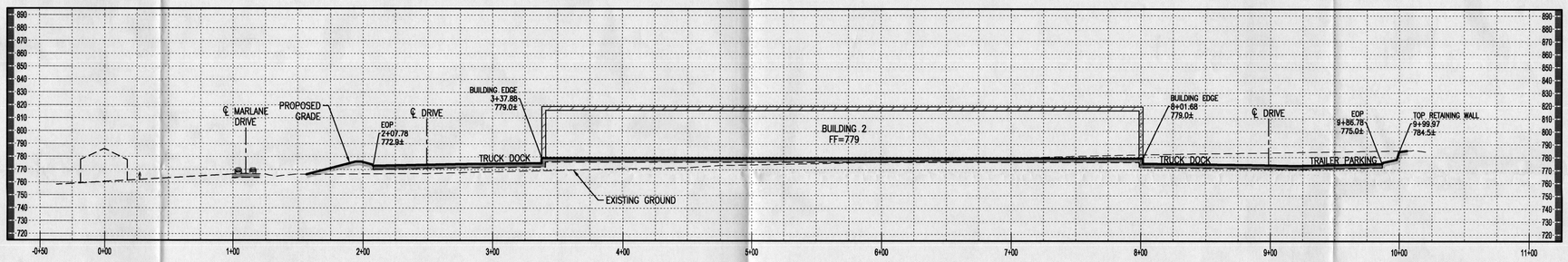
Jobes Henderson & ASSOCIATES
Engineering | Surveying | Environmental

59 Grant Street
Newark, Ohio 43055
PH: (740) 344-5451
www.jobeshenderson.com

NO.	PLAN ISSUE/REVISION	DATE

DRAWN JTH
CHECKED AS
DATE 09/21/2015

0 100 200
HORIZONTAL SCALE IN FEET



LINE OF SIGHT PROFILE

0 50 100
HORIZONTAL SCALE IN FEET

0 50 100
VERTICAL SCALE IN FEET

RECEIVED
OCT 22 2015
GC PLANNING COMMISSION

Jobes Henderson & ASSOCIATES
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Newark, Ohio 43055
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FAX: (740) 344-5746
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DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

LINE OF SIGHT PROFILE — 1/1

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: | CHECKED: | DATE: 09/28/2015

10/22/2015 8:37 AM J:\2015\15037 prologis capital park south\01\dwg\exhibits\2015-10-22_line of sight exhibit.dwg csmith

Capital Park South Tree Survey

Grove City, Ohio

ID	SPECIES	SIZE (in.)
1	american elm	14.8
2	american elm	11.2
3	american elm	7.3
4	american elm	10.3
5	american elm	7
6	american elm	9
7	big tooth aspen	19.2
8	big tooth aspen	9.2
9	big tooth aspen	6.3
10	black maple	21.5
11	black walnut	18.3
12	black walnut	6.2
13	black walnut	7.8
14	black walnut	9
15	black walnut	10.4
16	black walnut	7
17	black walnut	9
18	black walnut	9.3
19	black walnut	9
20	box elder	18.3
21	butternut	7.2
22	choke cherry	10.6
23	choke cherry	9.6
24	cottonwood	14.2
25	cottonwood	18.9
26	cottonwood	30.5
27	cottonwood	28.2
28	crab apple	10.1
29	crabapple	7
30	crabapple	6.6
31	crabapple	16.4
32	hackberry	12.4
33	hackberry	12.4
34	hackberry	8.4
35	hackberry	13.1
36	hackberry	10.4
37	hackberry	13.4
38	hackberry	15.4
39	hackberry	6.5
40	hackberry	9.8
41	hackberry	6
42	hackberry	6.1

ID	SPECIES	SIZE (in.)
298	mulberry	21.1
299	mulberry	6.3
300	mulberry	6.6
301	mulberry	14.4
302	mulberry	16.4
303	mulberry	9.7
304	mulberry	30.2
305	mulberry	30.1
306	mulberry	34.7
307	mulberry	10.4
308	mulberry	6.2
309	mulberry	13.6
310	mulberry	15
311	mulberry	14.2
312	mulberry	11
313	mulberry	6.3
314	mulberry	7.3
315	mulberry	6.7
316	mulberry	7.2
317	mulberry	7.1
318	mulberry	12.8
319	mulberry	6.2
320	mulberry	8.1
321	mulberry	12.9
322	mulberry	14.8
323	mulberry	7.9
324	mulberry	6.1
325	mulberry	7.8
326	mulberry	24.2
327	mulberry	26
328	mulberry	17.9
329	mulberry	7.5
330	mulberry	10
331	mulberry	9.4
332	mulberry	23.7
333	mulberry	9
334	mulberry	9.5
335	mulberry	10.2
336	mulberry	7.5
337	mulberry	19.4
338	mulberry	7.4
339	mulberry	6.4

43	hackberry	6
44	hackberry	26.9
45	hackberry	6.5
46	hackberry	6.6
47	hackberry	8.5
48	hackberry	6
49	hackberry	12.4
50	hackberry	6.3
51	hackberry	7.2
52	hackberry	6.5
53	hackberry	8.9
54	hackberry	8.7
55	hackberry	7.2
56	hackberry	8.2
57	hackberry	7.5
58	hackberry	8.7
59	hackberry	6.5
60	hackberry	7.1
61	hackberry	8.5
62	hackberry	10.6
63	hackberry	8.3
64	hackberry	16.3
65	hackberry	12.6
66	hackberry	8.5
67	hackberry	11.1
68	hackberry	7.1
69	hackberry	8
70	hackberry	10.2
71	hackberry	12.3
72	hackberry	16.5
73	hackberry	8.6
74	hackberry	11.5
75	hackberry	11
76	hackberry	16.8
77	hackberry	7.3
78	hackberry	6.2
79	hackberry	10
80	hackberry	19
81	hackberry	7.3
82	hackberry	8
83	hackberry	11.3
84	hackberry	13.6
85	hackberry	9.7
86	hackberry	20.5
87	hackberry	8.2
88	hackberry	10.2
89	hackberry	16.5

340	mulberry	9
341	mulberry	13.5
342	mulberry	13.3
343	mulberry	11.3
344	mulberry	7.1
345	mulberry	9.7
346	mulberry	29.1
347	mulberry	7.4
348	mulberry	9.3
349	mulberry	6.5
350	mulberry	6.4
351	mulberry	12.5
352	mulberry	8.7
353	mulberry	6
354	mulberry	6.8
355	mulberry	15.5
356	mulberry	8
357	mulberry	10.7
358	mulberry	21.1
359	mulberry	7
360	mulberry	6.3
361	mulberry	7.3
362	mulberry	12.9
363	mulberry	9.9
364	mulberry	7.3
365	mulberry	13.5
367	mulberry	16.8
368	mulberry	13.2
369	mulberry	15.2
370	mulberry	13
371	mulberry	13.3
372	mulberry	6.8
373	mulberry	17.2
374	mulberry	9.6
375	mulberry	8.5
376	mulberry	12
377	mulberry	11
378	osage orange	14.6
379	osage orange	29.7
380	osage orange	20.5
381	osage orange	6.2
382	osage orange	34.6
383	osage orange	12.2
384	osage orange	8.2
385	osage orange	8.1
386	osage orange	8.5
387	osage orange	9.6

90	hackberry	6
91	hackberry	7.1
92	hackberry	6.7
93	hackberry	8.4
94	hackberry	14.9
95	hackberry	12.7
96	hackberry	18.5
97	hackberry	8.4
98	hackberry	18.2
99	hackberry	15.3
100	hackberry	7.9
101	hackberry	12.3
102	hackberry	33.5
103	hackberry	29.8
104	hackberry	32.4
105	hackberry	7.2
106	hackberry	7.2
107	hackberry	18.6
108	hackberry	14.6
109	hackberry	10
110	hackberry	28.7
111	hackberry	8.5
112	hackberry	10
113	hackberry	13.8
114	hackberry	18.7
115	hackberry	7
116	hackberry	14.1
117	hackberry	14.3
118	hackberry	9.4
119	hackberry	8.8
120	hackberry	15.5
121	hackberry	9.7
122	hackberry	6.9
123	hackberry	13.4
124	hackberry	7.3
125	hawthorn	13.3
126	hawthorn	7.5
127	hawthorn	12.4
128	hawthorn	13.2
129	hawthorn	9.5
130	hawthorn	7.4
131	hawthorn	7.2
132	hawthorn	6.3
133	hawthorn	6.1
134	hawthorn	6
135	hawthorn	7.3
136	hawthorn	8.2

388	osage orange	9.7
389	osage orange	10.1
390	osage orange	12
391	pignut hickory	18.1
392	pin oak	9.8
393	pin oak	12.6
394	pin oak	6.6
395	pin oak	7.5
396	pin oak	18
397	pin oak	16.2
398	pin oak	9.5
399	pin oak	6.2
400	pin oak	7.4
401	pin oak	14
402	pin oak	16.5
403	pin oak	12.8
404	pin oak	14.2
405	pin oak	16.6
406	pin oak	13.1
407	pin oak	10.4
408	pin oak	11.1
409	pin oak	9.5
410	pin oak	7.5
411	pin oak	8.5
412	pin oak	6.1
413	pin oak	15
414	shingle oak	21.5
415	shingle oak	8.5
416	siberian elm	7.1
417	siberian elm	8.1
418	siberian elm	8.5
419	siberian elm	25.9
420	siberian elm	13.8
421	siberian elm	7
422	siberian elm	6
423	siberian elm	6.4
424	siberian elm	7.3
425	silver maple	6
426	silver maple	9.1
427	silver maple	7.1
428	silver maple	9.4
429	silver maple	7.9
430	silver maple	7.7
431	silver maple	30
432	silver maple	10.2
433	silver maple	10.2
434	silver maple	8.9

137	hawthorn	6.2
138	hawthorn	6.3
139	hawthorn	8.3
140	hawthorn	8.6
141	hawthorn	6.7
142	hawthorn	7.2
143	hawthorn	8.1
144	hawthorn	7.3
145	hawthorn	10.5
146	hawthorn	7.3
147	hawthorn	6.2
148	hawthorn	6.2
149	hawthorn	9.6
150	hawthorn	7.4
151	hawthorn	7.7
152	hawthorn	12.2
153	hawthorn	10.8
154	hawthorn	8.8
155	hawthorn	9.2
156	hawthorn	7
157	hawthorn	6.5
158	hawthorn	6.2
159	hawthorn	12.6
160	hawthorn	6.4
161	hawthorn	7.4
162	honey locust	10.7
163	honey locust	23
164	honey locust	22.3
165	honey locust	17.5
166	honey locust	6
167	honey locust	19.1
168	honey locust	35
169	honey locust	12.1
170	honey locust	26.2
171	honey locust	17.7
172	honey locust	6.4
173	honey locust	9.5
174	honey locust	11.3
175	honey locust	10.6
176	honey locust	9.3
177	honey locust	9.8
178	honey locust	9.7
179	honey locust	6.3
180	honey locust	9.6
181	honey locust	17
182	honey locust	12.5
183	honey locust	19.9

435	silver maple	25.5
436	silver maple	11.8
437	silver maple	12.2
438	sycamore	10.6
439	sycamore	14.2
440	sycamore	15.3
441	sycamore	11
442	sycamore	9.2
443	sycamore	11.4
444	sycamore	11.7
445	white ash	13
446	white ash	9
447	white ash	14.3
448	white ash	11.5
449	white ash	10
450	white ash	6.2
451	white ash	13.3
452	white ash	9
453	white ash	8.9
454	white ash	7
455	white ash	7
456	white ash	9.5
457	white ash	6.5
458	white ash	9.9
459	white ash	7.3
460	white ash	8.2
461	white ash	4.5
462	white ash	6.3
463	white ash	6.1
464	white ash	6.9
465	white ash	8.4
466	white ash	8.2
467	white ash	13.2
468	white ash	9.5
469	white ash	14.7
470	white ash	9.9
471	white ash	21
472	white ash	6.1
473	white ash	8.2
474	white ash	11.2
475	white ash	8.1
476	white ash	6
477	white ash	7.1
478	white ash	16
479	white ash	18.3
480	white ash	12.7
481	white ash	9.4

184	honey locust	20.2
185	honey locust	13.9
186	honey locust	12.4
187	honey locust	8.3
188	honey locust	6.6
189	honey locust	6.1
190	honey locust	12
191	honey locust	14.2
192	honey locust	8.4
193	honey locust	15.6
194	honey locust	12.1
195	honey locust	6.2
196	honey locust	10.2
197	honey locust	6
198	honey locust	9.5
199	honey locust	8.3
200	honey locust	12.8
201	honey locust	13.5
202	honey locust	6.2
203	honey locust	6.7
204	honey locust	7.4
205	honey locust	9.2
206	honey locust	11.6
207	honey locust	6.3
208	honey locust	6.1
209	honey locust	6.7
210	honey locust	10.5
211	honey locust	7.9
212	honey locust	12.4
213	honey locust	8
214	honey locust	11.2
215	honey locust	11.8
216	honey locust	13.4
217	honey locust	6.5
218	honey locust	6.5
219	honey locust	7.3
220	honey locust	16.5
221	honey locust	17.3
222	honey locust	10.5
223	honey locust	10.6
224	honey locust	7.3
225	honey locust	7.1
226	honey locust	10.5
227	honey locust	11.2
228	honey locust	11.3
229	honey locust	8.2
230	honey locust	6.9

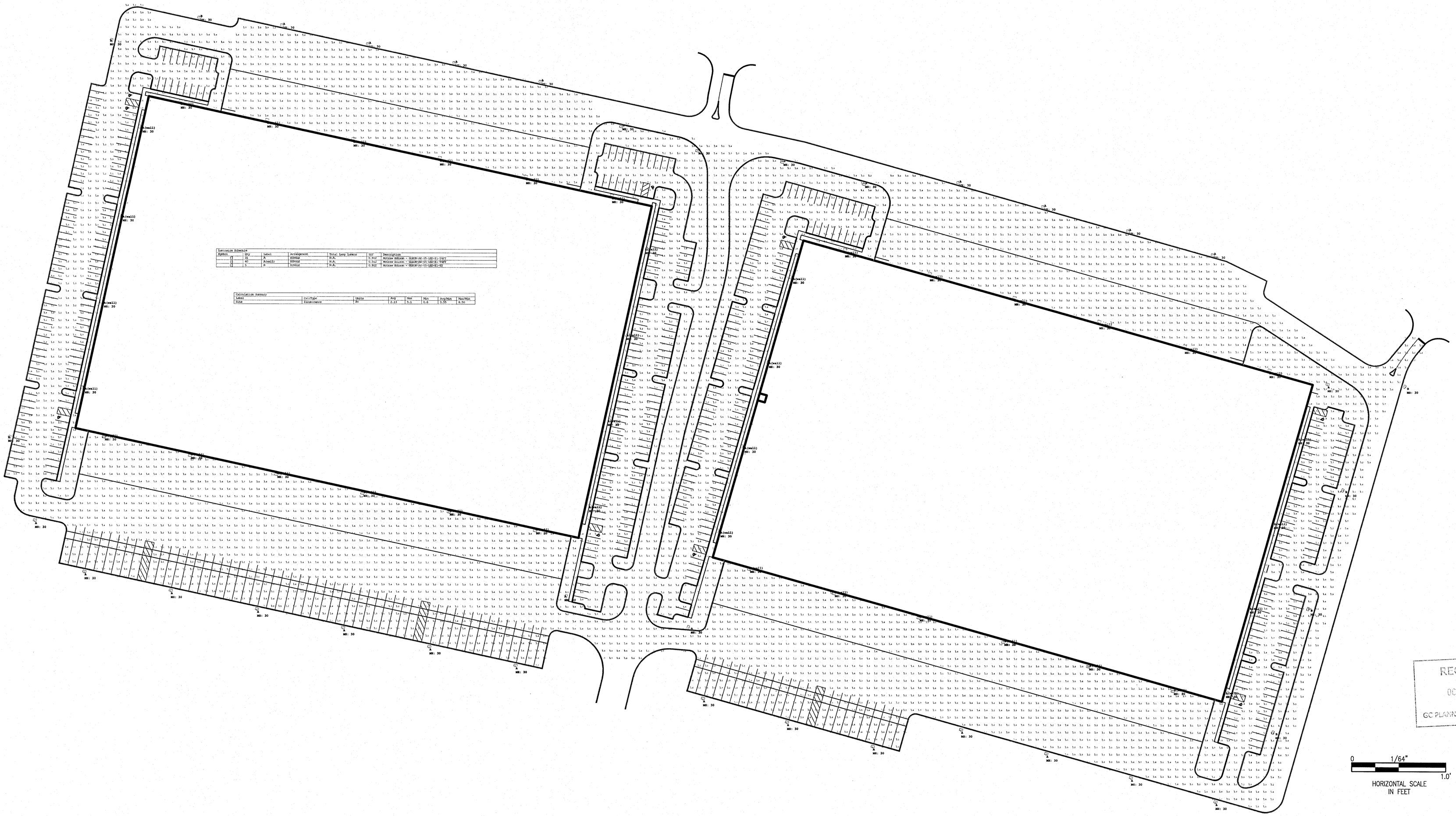
482	white ash	7.1
483	white ash	8.8
484	white ash	8.5
485	white ash	7.2
486	white ash	11.3
487	white ash	7.7
488	white ash	8
489	white ash	8.2
490	white ash	10.4
491	white ash	6.3
492	white ash	6.4
493	white ash	6.5
494	white ash	6.2
495	white ash	9.7
496	white ash	12.4
497	white ash	8.2
498	white ash	14
499	white ash	9.1
500	white ash	7.2
501	white ash	12.1
502	white ash	8.5
503	white ash	8.6
504	white ash	8.3
505	white ash	11.4
506	white ash	10
507	white ash	8.4
508	white ash	6.5
509	white ash	10.4
510	white ash	6.4
511	white ash	7.1
512	white ash	7.5
513	white ash	9.1
514	white ash	11.7
515	white ash	7.2
516	white ash	6.6
517	white ash	6.9
518	white ash	7
519	white ash	6
520	white ash	10.2
521	white ash	6.3
522	white ash	6.9
523	white ash	9.1
524	white ash	6
525	white ash	9.3
526	white ash	6
527	white ash	6.2
528	white ash	6.7

231	honey locust	10.5
232	honey locust	17.5
233	honey locust	6.6
234	honey locust	6.1
235	honey locust	9.7
236	honey locust	9.7
237	honey locust	6.3
238	honey locust	7.4
239	honey locust	7
240	honey locust	7.1
241	honey locust	9.8
242	honey locust	8.8
243	honey locust	8.6
244	honey locust	7.2
245	honey locust	6.2
246	honey locust	6
247	honey locust	21.3
248	honey locust	12
249	honey locust	27
250	honey locust	18.5
251	honey locust	13.2
252	honey locust	9.2
253	honey locust	14.3
254	honey locust	18.7
255	honey locust	6.5
256	honey locust	8
257	honey locust	22.4
258	honey locust	9.6
259	honey locust	6.8
260	honey locust	6
261	honey locust	7.2
262	honey locust	14.4
263	honey locust	7.6
264	honey locust	8.5
265	honey locust	7.3
266	honey locust	6.4
267	honey locust	7.3
268	honey locust	11.5
269	honey locust	13.2
270	honey locust	6.5
271	honey locust	7.6
272	honey locust	14.7
273	honey locust	7.6
274	honey locust	9.5
275	honey locust	12.5
276	honey locust	6.5
277	honey locust	15.4

529	white ash	6.2
530	white ash	7.8
531	white ash	6.2
532	white ash	6.4
533	white ash	6.6
534	white ash	6.7
535	white ash	9.1
536	white ash	6.3
537	white ash	8.6
538	white ash	6.9
539	white ash	6.1
540	white ash	7.5
541	white ash	7
542	white ash	8.1
543	white ash	6.4
544	white ash	7.1
545	white ash	14
546	white ash	8.7
547	white ash	9.4
547	white ash	8
549	white ash	8.1
550	white ash	9.8
551	white ash	10.1
552	white ash	7
553	white ash	8.1
554	white ash	9.7
555	white ash	7.8
556	white ash	10.6
557	white ash	10.4
558	white ash	9.8
559	white ash	9.8
560	white ash	8.8
561	white ash	20.2
562	white ash	6.5
563	white ash	6.9
564	white ash	12.3
565	white ash	7.2
566	white ash	35.7
567	white birch	6.4
568	wild black cherry	8.8
569	wild black cherry	10.7
570	wild black cherry	7.2
571	wild black cherry	9.3
572	wild black cherry	14.7
573	wild black cherry	9
574	wild black cherry	6.2
575	wild black cherry	8

278	honey locust	15.2
279	honey locust	12.4
280	honey locust	18
281	honey locust	13.8
282	honey locust	22.5
283	honey locust	19.5
284	mulberry	10.7
285	mulberry	6.5
286	mulberry	6.5
287	mulberry	28.8
288	mulberry	11
289	mulberry	6.2
290	mulberry	6.4
291	mulberry	23.6
292	mulberry	7.1
293	mulberry	9.4
294	mulberry	12.2
295	mulberry	6.5
296	mulberry	10.5
297	mulberry	8.4

576	wild black cherry	8.2
577	wild black cherry	8.5
578	wild black cherry	9.3



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
[illegible]	21	A	8DRAW	N.A.	0.902	McGraw Edison - GLB2H-AF-25-LED-E1-T4FT
[illegible]	40	A(wall)	8DRAW	N.A.	0.902	McGraw Edison - GLB2H-AF-25-LED-E1-T4FT
[illegible]	5	B	8DRAW	N.A.	0.902	McGraw Edison - GLB2H-AF-25-LED-E1-T2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site	Illuminance	Fc	2.17	5.1	0.4	5.55	8.50

RECEIVED
OCT 0 9 2015
GC PLANNING COMMISSION

0 1/64" 1.0'
HORIZONTAL SCALE IN FEET

TURTLE & HUGHES INC. FIRST IN THE LONG RUN
ELECTRICAL & INDUSTRIAL DISTRIBUTOR

Calculations are provided using industry recognized software and are provided for estimation purposes only. Input data for the calculations corresponds to the information provided to us (assumptions may be made for information that is not provided). It is the responsibility of those using this service to verify that our input data is consistent with expected field conditions. Results of the lighting calculations accurately reflect the input data. However, actual lighting levels will vary depending on field conditions such as room characteristics, temperature, voltage and lamp/ballast output and other factors. Calculations are also subject to the limitations of the software. Due to the above considerations, Southern California Illumination cannot guaranty that actual light levels measured in the field will match our initial calculations.

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SITE LIGHTING PLAN — P-SL-1

NO.	PLAN ISSUE/REVISION	DATE

CITY PROJECT NUMBER:
JOB NUMBER: 15037.01
DRAWN: T&H
CHECKED: ---
DATE: 09/28/2015

9/28/2015 8:31 AM j:\2015\15037 prologis capital park south\01\dwg\exhibits\2015-09-28_p-sl-1_jha revised.dwg aspencer

McGRAW-EDISON®

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

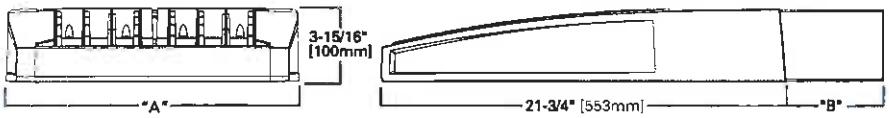
GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

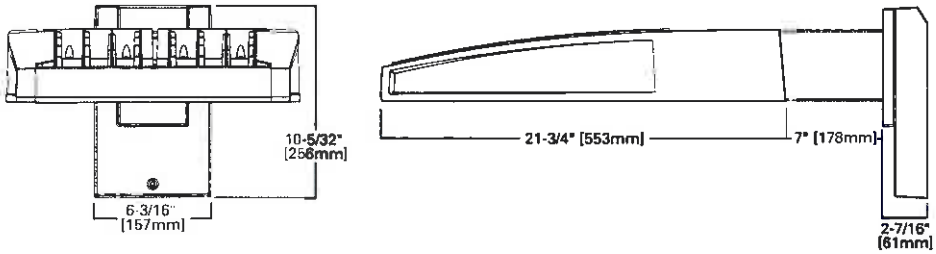
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.

CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

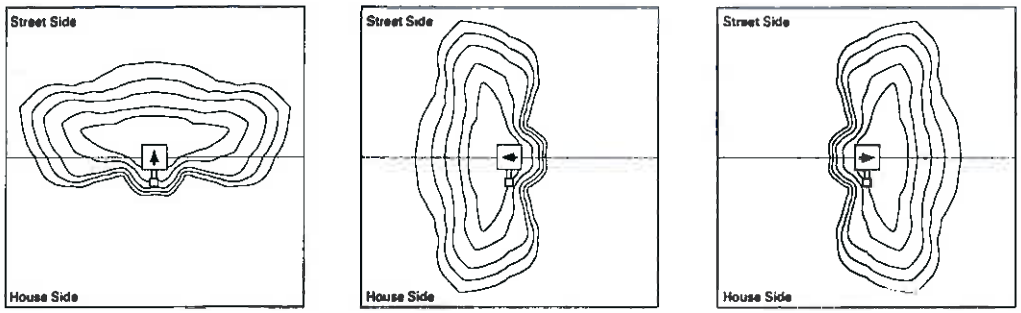
ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

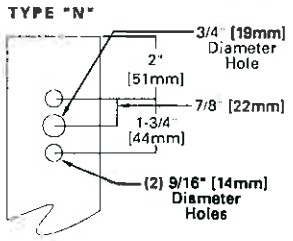
Cooper Lighting
by EATON

*www.designlights.org

OPTIC ORIENTATION

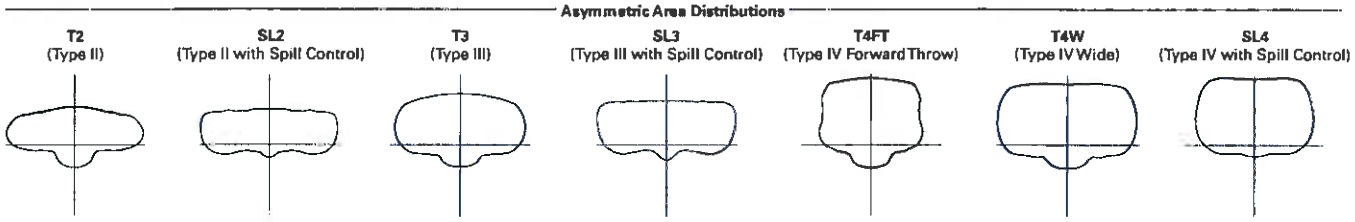


DRILLING PATTERN

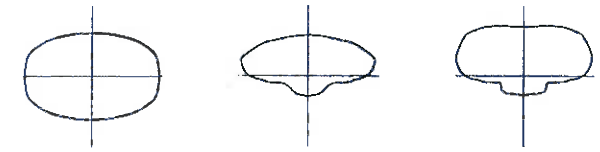


OPTICAL DISTRIBUTIONS

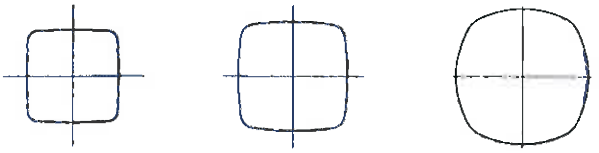
Asymmetric Area Distributions



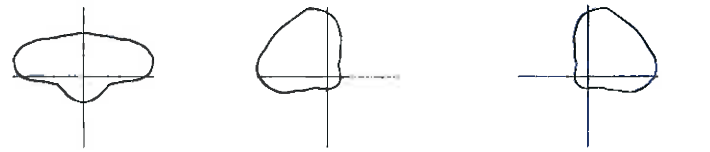
Asymmetric Roadway Distributions



Symmetric Distributions

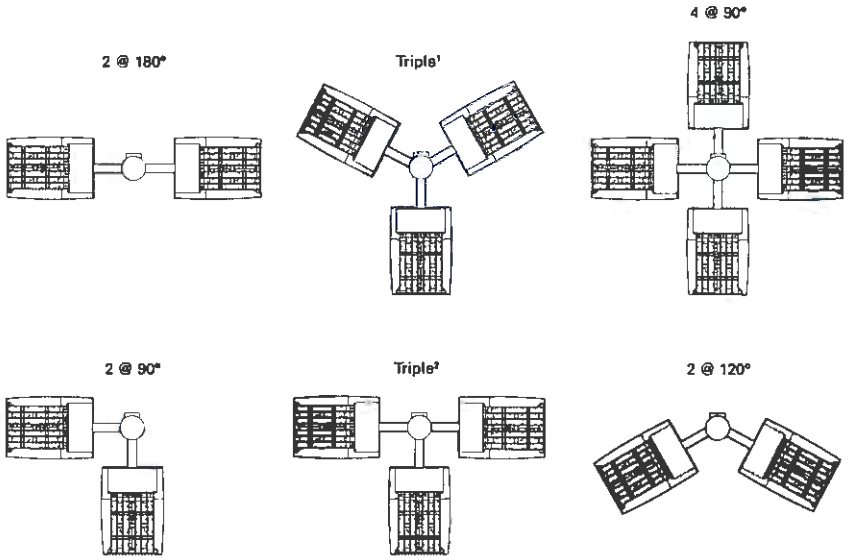


Specialized Distributions



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,585	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,183	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,218	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,488	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,938	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.88	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.26	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,682
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,828	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,238	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,827	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family [1]	Light Engine	Number of Light Squares [2]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V [3] 480=480V [3]	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm [4] MA=Mast Arm Adapter [5] WM=Wall Mount

Options (Add as Suffix)	Accessories (Order Separately)
2L=Two Circuits [6, 7] 7030=70 CRI 3000K [8] 7060=70 CRI 6000K [8] 530=Drive Current Factory Set to 530mA [9] 700=Drive Current Factory Set to 700mA [9] F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) P=Button Type Photocontrol (120, 208, 240 or 277V) PER7=NEMA 7-Pin Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient [7] MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10, 11, 12, 13] MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10, 11, 12, 13] MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10, 11, 12, 13] MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [10, 11, 12, 13] MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [10, 11, 12, 13] MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [10, 11, 12, 13] MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10, 11, 12, 13, 14] MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10, 11, 12, 13, 14] MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10, 11, 12, 13, 14] DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [15] DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [15] L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing [16] HSS=Factory Installed House Side Shield [17]	OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor [18] GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield [17, 19]

Notes:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
5. Factory Installed.
6. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
7. Not available with LumaWatt wireless sensors.
8. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
9. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Consult factory for more information.
11. Utilizes internal step down transformer when 347V or 480V is selected.
12. The FSIR-100 accessory is required to adjust parameters.
13. Not available with HA option.
14. Replace X with number of Light Squares operating in low output mode.
15. LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
16. Not available with house side shield (HSS).
17. Only for use with SL2. SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
18. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
19. One required for each Light Square.

SWPPP GENERAL NOTES

THE CONTRACTOR SHALL BE DESIGNATED A CO-PERMITTEE TO THE GENERAL CONSTRUCTION STORM WATER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS UNDER THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA) GENERAL PERMIT.

THE CONTRACTOR SHALL FILE A CO-PERMITTEE FORM. INFORMATION ABOUT THE CO-PERMITTEE FORM CAN BE FOUND AT www.epa.state.oh.us/dsw/storm/stormform.html. THE CONTRACTOR SHALL FURNISH A COPY OF THE FORM SUBMITTED TO THE OHIO EPA TO THE PROJECT OWNER, OR OWNER'S REPRESENTATIVE, AT OR BEFORE THE PRE-CONSTRUCTION MEETING.

ALL CONTRACTOR'S AND SUB-CONTRACTORS SHALL PROVIDE SIGNATURES TO THE OWNER ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE GENERAL PERMIT AND THE SWP3. THESE SIGNATURES SHALL BE PROVIDED PRIOR TO COMMENCEMENT OF WORK ON THE CONSTRUCTION SITE.

EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO INITIAL DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. THE CONTRACTOR SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE OHIO EPA GENERAL PERMIT AND THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) DEVELOPED FOR THE PROJECT.

DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROPER SOIL EROSION MEASURES FOR PROTECTION OF ALL ADJOINING ROADS, LANDS, AND STREAMS. REFER TO ODNR "RAINWATER AND LAND DEVELOPMENT" MANUAL AND ODOT "HANDBOOK FOR SEDIMENT AND EROSION CONTROL" FOR REQUIREMENTS.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER LEAVES THE LIMITS OF THE PROJECT, ALL POINTS WHERE STORM WATER ENTERS A STREAM THAT TRAVERSES THE PROJECT, AND ALL POINTS WHERE STORM WATER ENTERS PORTIONS OF COMPLETED UNDERGROUND PIPING.

SWPPP UPDATES

THE SWP3 PLAN IS A DYNAMIC PLAN BASED UPON SITE CONDITIONS AND THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWP3 PLAN AS THE PROJECT PROCEEDS.

THE CONSTRUCTION BMP'S WITHIN THESE PLANS REPRESENT THE MINIMUM REQUIRED ONSITE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ONSITE BMP'S AS THE PROJECT PROGRESSES AT NO ADDITIONAL COST OVER THE ITEMS BID.

INSPECTION

THE CONTRACTOR SHALL PROVIDE A QUALIFIED INSPECTION PERSONNEL TO CONDUCT INSPECTIONS PER PART III.G.2 OF THE GENERAL PERMIT. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO THE OWNER, THE OWNER'S REPRESENTATIVE, OR THE JURISDICTIONAL AGENCIES IF REQUESTED.

AT A MINIMUM, ALL CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. INSPECTION PERIODS MAY BE REDUCED PER PART III.G.2 OF THE GENERAL PERMIT.

MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL TEMPORARY AND PERMANENT CONTROL PRACTICES TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION DURING CONSTRUCTION. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER. LONG TERM MAINTENANCE RESPONSIBILITY AND SCHEDULE CAN BE FOUND IN THE O&M AGREEMENT TO BE SUBMITTED WITH FINAL CONSTRUCTION PLANS.

TREE PRESERVATION

THE AREA SHOWN IN THE CONSTRUCTION DRAWINGS AND ON THE STORM WATER POLLUTION PREVENTION PLAN AS "100' NATURAL BUFFER ZONE - DO NOT DISTURB", SHALL BE ENCLOSED WITH T-POSTS AND CONSTRUCTION FENCING.

PS PERMANENT SEEDING

(Rainwater and Land Development rev.6–24–09)

Seed Mix	Seeding Rate Lbs Ac	Seeding Rate Lbs. 1,000 Sq.Ft.	Notes:
General Use			
Creeping Red Fescue	20-40	1/2 -1	For close mowing & waterways w/ <2 ft/sec
Domestic Ryegrass	10-20	1/4 - 1/2	
Kentucky Bluegrass	20-40	1/2 - 1	
Tall Fescue	40-50	1 - 1 1/2	
Turf-type (dwarf) Fescue	90	2 1/2	
Steep Banks or Cut Slopes			
Tall Fescue	40-50	1 - 1 1/2	
Tall Fescue	20-30	1/2 - 3/4	Do not seed later than August
Flat Pea	20-25	1/2 - 3/4	Do not seed later than August
Tall Fescue	20-30	1/2 - 3/4	
Road Ditches and Swales			
Tall Fescue	40-50	1 - 1 1/2	
Turf-type (dwarf) Fescue	90	2 1/2	
Kentucky Bluegrass	5	0.1	
Lawns			
Kentucky Bluegrass Perennial Ryegrass	100-120	2 2	
Kentucky Bluegrass Creeping Red Fescue	100-120	2 1 1/2	For shaded areas.

Note: Other approved seed species may be substituted.

Site Preparation

1. Subsoiler, plow, or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.
2. The site shall be graded as needed to permit the use of conventional Equipment for seedbed preparation and seeding.
3. Topsoil shall be applied where needed to establish vegetation.

Seedbed Preparation

1. Lime—Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 pounds per 1,000-sq. ft. or 2 tons per acre.
2. Fertilizer—Fertilizer shall be applied as recommended by a soil test. In place of a soil test, fertilizer shall be applied at a rate of 25 pounds per 1,000-sq. ft. or 1000 pounds per acre of a 10-10-10 or 12-12-12 analyses.
3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 inches. On sloping land, the soil shall be worked on the contour.

Seeding Dates and Soil Conditions

1. Seeding should be done March 1 to May 31 or August 1 to September 30. If seeding occurs outside of the above specified dates, additional mulch and irrigation may be required to ensure a minimum of 80% germination. Tillage for seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.
2. Permanent vegetation and structural erosion control measures shall be installed as soon as practical but no later than 48 hours after final grading. This includes sod or other methods of retaining seeding material prior to maturation in the lower $\frac{1}{2}$ of any drainage ditches.
3. Land which has been cleared for development, and upon which construction has not commenced within twenty-one (21) days of this initial clearing shall be protected from erosion and consequent sedimentation by appropriate vegetation and land covering techniques such as seeding, sodding, mulching ground cover installation or other vegetation or earth covering techniques.

Dormant Seedings

1. Seedings should not be made from October 1 through November 20. During this period, the seeds are likely to germinate but probably will not be able to survive the winter.
2. The following methods may be used for "Dormant Seeding":
   - From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
   - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
   - Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
   - Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.

Mulching

1. Mulch material shall be applied immediately after seeding. Dormant seeding shall be mulched. 100% of the ground surface shall be covered with an approved material.
2. Materials
   - Straw—If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons per acre or 90 pounds (two to three bales) per 1,000-sq. ft. The mulch shall be spread uniformly by hand or mechanically applied so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
   - Hydroseeders—If wood cellulose fiber is used, it shall be applied at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
   - Other—Other acceptable mulches include rolled erosion control mattings or blankets applied according to manufacturer's recommendations or wood chips applied at 6 tons per acre.
3. Straw and Mulch Anchoring Methods
   Straw mulch shall be anchored immediately to minimize loss by wind or water.
   - Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 inches.
   - Mulch Netting—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
   - Asphalt Emulsion—Asphalt shall be applied as recommended by the manufacture or at the rate of 160 gallons per acre.
   - Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates specified by the manufacturer.
   - Wood Cellulose Fiber—Wood cellulose fiber shall be applied at a net dry weight of 750 pounds per acre. The wood cellulose fiber shall be mixed with water with the mixture containing a maximum of 50 pounds cellulose per 100 gallons of water.

Irrigation

Permanent seeding shall include irrigation to establish vegetation during dry weather or on adverse site conditions, which require adequate moisture for seed germination and plant growth. Irrigation rates shall be monitored to prevent erosion and damage to seeded areas from excessive runoff.

TS TEMPORARY SEEDING

(Rainwater and Land Development rev.6–24–09)

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

Note: Other approved seed species may be substituted.

1. Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 48 hours after grading.
3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if ideal seedbed preparation is not possible.
4. Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.
5. Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

Mulching Temporary Seeding

1. Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization. Temporary vegetation or mulching shall be employed to protect exposed critical areas during development. These measures shall be installed within 48 hours of initial disturbance. Critical areas, as they pertain to erosion control measures, are defined in Appendix XIV by the Licking County Engineer or Licking County Soil and Water Conservation Service.

2. Materials:
   - Straw—If straw is used, it shall be unrotted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./ 1,000 sq. ft. (2-3 bales)
   - Hydroseeders—If wood cellulose fiber is used, it shall be used at 2000 lbs./ ac. or 46 lb./ 1,000-sq.-ft.
   - Other—Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 ton/ ac.

3. Straw Mulch shall be anchored immediately to minimize loss by wind or water. Anchoring methods:
   - Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but left to a length of approximately 6 inches.
   - Mulch Netting—Netting shall be used according to the manufacturers recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
   - Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Track or equivalent may be used at rates recommended by the manufacturer.
   - Wood-Cellulose Fiber—Wood-cellulose fiber binder shall be applied at a net dry wt. of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb. / 100 gal.

SITE NARRATIVE

PROJECT DESCRIPTION:

THE PROPOSED PROPERTY IS APPROXIMATELY 43.8 +/- ACRES AND IS LOCATED IN GROVE CITY, FRANKLIN COUNTY.

THE PROPOSED DEVELOPMENT WILL CONSTRUCT 2 BUILDINGS EACH WITH A TRUCK DOCK, TRAILER PARKING, AND EMPLOYEE PARKING FACILITIES. THERE WILL BE A RETENTION POND ALONG THE EASTERN PROPERTY LINE OF THE SITE TO ACCOMMODATE ALL THE STORMWATER DETENTION REQUIREMENTS.

RECEIVING STREAM:

UNNAMED DITCH ALONG MARLANE DRIVE.

ADJACENT AREAS:

THE SITE IS BORDERED TO THE NORTH BY MARLANE DRIVE, THE SOUTH BY MULTIPLE EXISTING COMMERICAL WAREHOUSES, TO THE WEST BY THE FARMBROOK VILLAGE AND TO THE EAST BY SEVERAL PRIVATE RESIDENCES.

PROJECT DATA:

PRE-CONSTRUCTION IMPERVIOUS AREA _____ 0.0AC.
PRE-CONSTRUCTION IMPERVIOUS AREA (%) _____ 0%
POST CONSTRUCTION IMPERVIOUS AREA _____ 30.9AC.
POST CONSTRUCTION IMPERVIOUS AREA (%) _____ 82.0 %
PROJECT EARTH DISTURBED AREA _____ 37.70AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA _____ 0 AC.
NOTICE OF INTENT EARTH DISTURBED AREA _____ 37.70 AC.

SOILS:

THE FOLLOWING SOILS ARE PRESENT ONSITE:

CeB - CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CeC2 - CELINA SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED
CrA - CROSBY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 0 TO 2 PERCENT SLOPES
CrB - CROSBY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 2 TO 6 PERCENT SLOPES
Ko - KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
Mh - MEDWAY SILT LOAM, OCCASIONALLY FLOODED
Ut - UDORTHENTS - URBAN LAND COMPLEX, GENTLY ROLLED

GRADING REQUIREMENTS:

A LARGE PORTION OF THE SITE IS STRIPPED OF TOPSOIL AS IT CURRENTLY SERVES AS A FARM FIELD. THE REST OF THE SITE BEING DEVELOPED WILL NEED TO BE STRIPPED AND THE EXISTING VEGETATION REMOVED AND DISPOSED OF. THE SITE WILL REQUIRE AREAS OF CUT AND FILL TO CONSTRUCT TO SUBGRADE AND WILL BE RELATIVELY FLAT.

EROSION AND SEDIMENT CONTROL MEASURES:

EROSION AND SEDIMENT WILL BE CONTROLLED THROUGH THE USE OF THE SEDIMENT BASIN, INLET PROTECTION AT THE PROPOSED INLETS, TEMPORARY SEDIMENT CONTROL STRUCTURE, AND PERIMETER FILTER FABRIC FENCE.

POST CONSTRUCTION WATER QUALITY:

POST CONSTRUCTION WATER QUALITY WILL BE MAINTAINED BY THE PROPOSED USE OF RETENTION PONDS.

PERMANENT STABILIZATION:

THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING.

MAINTENANCE:

ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED / REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION SEQUENCE:

1. CONTACT THE CITY OF GROVE CITY 2 WEEKS PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING AS IDENTIFIED IN THE GENERAL NOTES ON SHEET C0.02.
2. ESTABLISH A DESIGNATED CONSTRUCTION ENTRANCE.
3. INSTALL PERIMETER FILTER FABRIC FENCE & TREE PROTECTION FENCE.
4. BEGIN EXCAVATION OF THE PROPOSED BASINS AND USE TEMPORARY DIVERSION SWALES TO ROUTE STORM WATER RUNOFF TO THE BASIN DURING CLEARING AND GRADING.
5. INSTALL STORM WATER OUTLET PIPES AND RELOCATE THE PERMANENT OUTLET STRUCTURE, COMPLETE WITH THE FAIRCLOTH SKIMMER (OR EQUAL).
6. REMOVE THE EXISTING VEGETATION FROM THE REMAINDER OF THE SITE AS NECESSARY.
7. GRADE THE SITE AS NECESSARY TO FORM THE BUILDING PADS, ACCESS ROADS, PARKING AREAS, ETC.
8. STABILIZE ANY REMAINING DISTURBED AREAS.
9. REMOVE THE TEMPORARY SEDIMENT CONTROLS WHEN PERMANENT VEGETATION BECOMES ESTABLISHED.

SCHEDULE:

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

PLAN DESIGNER:
JOBES HENDERSON & ASSOCIATES, INC.
59 GRANT STREET,
NEWARK, OH 43055
P.740.344.5451
F.740.344.8659
SITE CONTACT: AMANDA E SPENCER

OWNER / DEVELOPER:
PROLOGIS
8102 ZIONSVILLE ROAD
INDIANAPLOIS, IN 46268
(317) 228-5205
SITE CONTACT: MIKE CARRICO

Jobes Henderson & ASSOCIATES
Engineering | Surveying | Environmental
59 Grant Street
Newark, Ohio 43055
PH: (740) 344-5451
FAX: (740) 344-5746
www.jobeshenderson.com

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SWPPP NOTES — **C5.02**

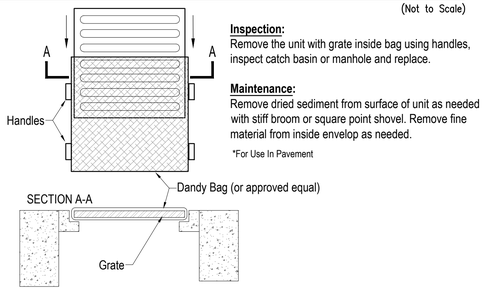
NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 10:14 AM j:\2015\15037 prologis copitol pont. south\01\dwg\sheets\15037_swppp.dwg dweaver

DB DANDY BAG

(Not to Scale)



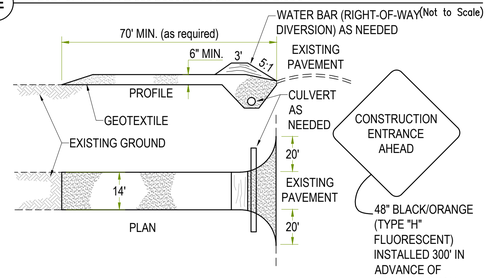
Inspection:
Remove the unit with grate inside bag using handles, inspect catch basin or manhole and replace.

Maintenance:
Remove dried sediment from surface of unit as needed with stiff broom or square point shovel. Remove fine material from inside envelop as needed.

*For Use In Pavement

CE STABILIZED CONSTRUCTION ENTRANCE

(Not to Scale)



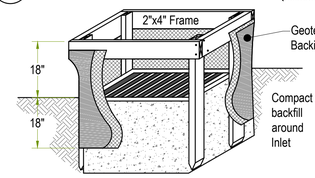
1. Stone Size - odot #2 (1.5-2.5 inch) stone shall be used, or reclaimed or recycled concrete equivalent.
2. Length - as long as required to stabilize high traffic areas but not less than 70 ft.
3. Thickness - not less than six (6) inches for light duty or at least ten (10) inches for heavy duty.
4. Width - fourteen (14) feet minimum, but not less than the full width at points where ingress or egress occurs.
5. Geotextile - laid over the entire area prior to placing stone. it shall be composed of strong rot-proof polymetric fibers and meet the following specifications:

min. tensile strength = 200 lbs.	min. puncture strength = 80 psi
min. tear strength = 50 lbs.	min. burst strength = 320 psi
min. elongation = 20%	equivalent opening size = eos < 0.6mm
permittivity = 1x10-3 cm/sec.	

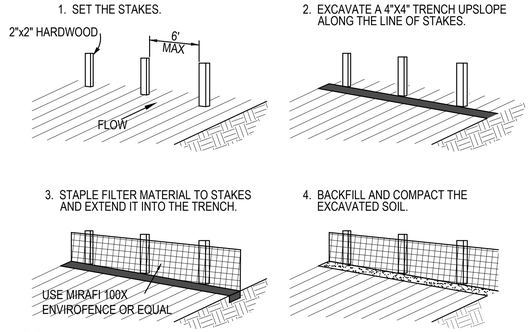
6. Timing - the construction entrance shall be installed as soon as is practicable before major grading activities.
7. Culvert - a pipe or culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being directed out onto paved surfaces.
8. Water bar - a water bar shall be constructed as part of the contruction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
9. Maintenance - top dressing of additional stone shall be applied as conditions demand. mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately. removal shall be accomplished by scraping or sweeping.
10. Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. vehicles that enter and leave the construction-site shall be restricted from muddy areas.
11. Removal - the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.

IP GEOTEXTILE INLET PROTECTION

(Rainwater and Land Development rev.6–24–09)

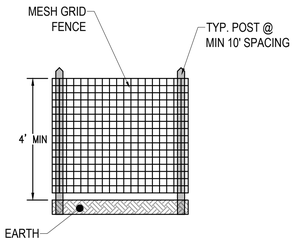


1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.
2. The earth around the inlet shall be excavated completely to a depth at least 18 inches.
3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is even with notch elevation on ends and top elevation on sides.
7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.



FF FILTER FABRIC FENCE

(Not to Scale)



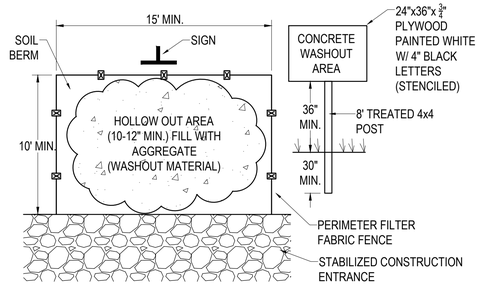
NOTES:
1. FENCING SHALL BE EXTRUDED POLYMERIC MESH GRID FENCING.
2. POSTS SHALL BE WOOD, PLASTIC, OR METAL POSTS.
3. FASTEN FENCING TO POST USING ZIP OR WIRE TIES.
4. TO BE USED FOR TREE PROTECTION.

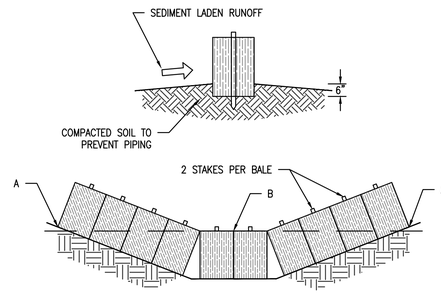
CF TREE PROTECTION CONSTRUCTION FENCE

(Not to Scale)

CWA CONCRETE WASHOUT AREA

(Not to Scale)





DC STRAW BALE BARRIER FOR DRAINAGE WAY OR SHEET FLOW

NOT TO SCALE

Channel Flow Applications

Bales shall be placed in a single row, lengthwise, oriented perpendicular to the contour, with ends of adjacent bales tightly abutting one another.
The remaining steps for installing a straw bale barrier for sheet flow applications apply here, with the following addition.
The barrier shall be extended to such a length that the bottoms of the end bales are higher in elevation than the top of the lowest middle bale to assure that sediment-laden runoff will flow either through or over the barrier but not around it.

NOTE: Hay bales may be used in place of straw bales.

Maintenance

Straw bales shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales.
Necessary repairs to barriers or replacement of bales shall be accomplished promptly.
Sediment deposits should be removed after each. rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.
Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

Jobes Henderson & ASSOCIATES
Engineering | Surveying | Environmental
59 Grant Street
Newark, Ohio 43055
PH: (740) 344-5451
FAX: (740) 344-5746
www.jobeshenderson.com

DEVELOPMENT PLANS FOR
PROLOGIS SOUTH PARK

SWPPP DETAILS — C5.03

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: DMW | CHECKED: AES | DATE: 09/28/2015

9/15/2015 10:14 AM J:\2015\15037 prologis capital park south\01\dwg\sheets\15037_swppp.dwg dwoover

PROLOGIS SOUTH PARK – PROPOSED EXTERIOR FINISHES:

RECEIVED
OCT 22 2015
GC PLANNING COMMISSION

WALLS:

Material –Concrete wall panel

Textured Paint
Manufacturer: Sherwin Williams (or similar)
Material: Ultra Crete Textured Masonry Topcoat (A44W811) (or similar)
Colors: SW "Sable"
SW "Liquorice Tint"
SW "Jaguar"

WINDOWS:

Frames
Manufacturer: Kawneer (or similar)
Color-Finish: Clear Anodized Aluminum

Glass
Manufacturer: PPG (or similar)
Color-Finish: Atlantica (formerly Solar Green)

DOORS.

Hollow Metal Doors and Frames:
Manufacturer: Ceco (or similar)
Color: To match adjacent building color

Overhead Doors
Manufacturer: Wayne Dalton (or Similar)
Style: Sectional Overhead Doors
Color: Manufacturer's standard "White"

MISC.

Prefinished Metal Flashing
Manufacturer: Metal Era (or Similar)
Color: To match adjacent building color

Louvers
Manufacturer: Greenheck (or similar)
Style: Operable Blade, Motorized Louver.
Color: Clear Anodized Aluminum

RECEIVED
OCT 22 2015
GC PLANNING COMMISSION

524380328

MAIL R.L. DeVictor
50 E. Broad St.
Cols 15 Ohio

R/W Form 2

VOL 2438 PAGE 677

Sheet.....of..... ...sheets.

Easement for Highway Purposes

TRANSFER NOT NECESSARY NOV 3 1962 FRED C. DUNN AUDITOR FRANKLIN COUNTY, OHIO

KNOW ALL MEN BY THESE PRESENTS: 23265

That John F. Haag, Jr., married

Received 11-3-1962 At 10 O'clock A M

Recorded NOV 6 - 1962 19 In Franklin County

JAMES A. SCHAEFER, Recorder

Recorder's Fee $ 2.00, the Grantor ..,

for and in consideration of the sum of Six Thousand Eight Hundred Twenty and no/100ths

Dollars ($6,820.00) and for other good and valuable considerations to him paid by the

State of Ohio, the Grantee, the receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, convey and release to the said Grantee, its successors and assigns forever, a perpetual easement and right of way for public highway and road purposes, in, upon and over the lands hereinafter described,

situated in Franklin County, Ohio, Jackson Township,

~~Section~~, ~~Town~~, ~~Range~~,

and bounded and described as follows:

PARCEL No. 91

Being a parcel of land lying on the right & left sides of the centerline of a survey, made by the Department of Highways, and recorded in Book 32, Page 60, of the records of Franklin County and being located within the following described points in the boundary thereof:

Beginning at the grantor's northwesterly property corner and station 10 plus 8 in the centerline of a survey made in 1962 by the Ohio Department of Highways, for Marlane Drive Service Road, in Franklin County, Ohio; thence leaving said point (S 77° 46' 16" E, 1465.33 feet) and with the grantor's northerly property line and the said Marlane Drive centerline survey, to station 24 plus 73.33 in said Marlane Drive centerline survey; thence leaving said point (S 77° 46' 16" E, 175.08 feet) and continuing with the grantor's said northerly property line, to a point 38.18 feet left of and at right angles from station 26 plus 37.96 in said Marlane Drive centerline survey; thence leaving said point and grantor's said northerly property line (S 55° 45' 04" E, 232.49 feet) to a point 45.89 feet left of and at right angles from station 28 plus 70.33 in said Marland Drive centerline survey; thence leaving said point (S 53° 36' 13" E, 391.14 feet) to a point 44.19 feet left of and at right angles from station 32 plus 61.47 in said Marlane Drive centerline survey; thence leaving said point (S 52° 45' 23" E, 440.59 feet) to a point in the grantor's easterly property line, 35.76 feet left of and at right angles from station 37 plus 01.97 in said Marlane Drive centerline survey; thence leaving said point (S 03° 39' 43" W, 481.67 feet) and with the grantor's easterly property line, to a point in the grantor's southerly property line 30 feet right of and at right angles from station 41 plus 71.12 in said Harland Drive centerline survey; thence leaving said point and the grantor's said easterly property line (N 78° 33' 24" W, 10.09 feet) and with the grantor's southerly property line to a point 40 feet right of and at right angles from station 41 plus 69.75 in said Marlane Drive centerline survey; thence leaving said point and the grantor's said southerly property line (N 03° 39' 43" E, 363.93 feet) to a point 40 feet right of and at right angles from station 38 plus 05.82 in said Marlane Drive centerline survey; thence leaving said point (N 42° 10' 51" W, 87.87 feet) to a point 50 feet right of and at right angles from station 36 plus 70 in Marlane Drive centerline survey; thence leaving said point (N 53° 51' 07" W, 445.00 feet) to a point 50 feet right of and at right angles from station 32 plus 25 in said Marlane Drive centerline survey; thence leaving said point (N 62° 22' 58" W, 101.12 feet) to a point 65 feet right of and at right angles from station 31 plus 25 in said Marlane Drive centerline survey; thence leaving said point (N 45° 19' 16" W, 101.12 feet) to a point 50 feet right of and at right angles from station 30 plus 25 in said Marlane Drive centerline survey; thence leaving said point (N 53° 51' 07" W, 325.00 feet) to a point 50 feet right of and at right angles from station 27 plus 00 in said Marlane Drive centerline survey; thence leaving said point (N 64° 03' 06" W, 277.28 feet) to a point 40 feet right of and at

R/W Form 2

Sheet.....of..... ...sheets.

VOL 2438 PAGE 678 **Easement for Highway Purposes**

KNOW ALL MEN BY THESE PRESENTS:

That.....

.....

.....

....., the Grantor ...,

for and in consideration of the sum of.....

Dollars ($..... .....) and for other good and valuable considerations to.....paid by the

State of Ohio, the Grantee, the receipt whereof is hereby acknowledged, do..... hereby grant, bargain, sell, convey and release to the said Grantee, its successors and assigns forever, a perpetual easement and right of way for public highway and road purposes, in, upon and over the lands hereinafter described,

situated in.....County, Ohio,.....Township,

Section....., Town....., Range.....,

and bounded and described as follows:

PARCEL No.....

Being a parcel of land lying on the _____ side__ of the centerline of a survey, made by the Department of Highways, and recorded in Book___, Page____, of the records of _____ County and being located within the following described points in the boundary thereof:

right angles from station 24 plus 00 in said Marlane Drive centerline survey; thence leaving said point (N 77° 46' 16" W, 700.00 feet) to a point 40 feet right of and at right angles from station 17 plus 00 in said Marlane Drive centerline survey; thence leaving said point (N 79° 15' 32" W, 385.15 feet) to a point 50 feet right of and at right angles from station 13 plus 15 in said Marlane Drive centerline survey; thence leaving said point (N 75° 56' 26" W, 90.05 feet) to a point 47.12 feet right of and at right angles from station 12 plus 25 in Marlane Drive centerline survey; thence leaving said point (N 70° 33' 38" W, 136.08 feet) to a point 30 feet right of and at right angles from station 10 plus 90 in said Marlane Drive centerline survey; thence leaving said point (N 77° 46' 16" W, 86.43 feet) to a point in the grantor's westerly property line, 30 feet right of and at right angles from station 10 plus 03.57 in said Marlane Drive centerline survey; thence leaving said point (N 20° 38' 09" E, 30.33 feet) and with the grantor's said westerly property line to the place of beginning containing 4.102 acres, more or less.

Being part of the same premises conveyed to the herein grantor by deed dated November 16, 1942 and recorded in Deed Book 1209 page 52 of records of Franklin County, Ohio, containing 53.5 acres, more or less.

~~It is understood that the strip of land above described contains _____ acres, more or less, exclusive of the present road which occupies _____ acres, more or less.~~

R/W Form 7
Acknowledgement
Revised 8-20-58-C.

Sheet ____ of ____ sheets.

TO HAVE AND TO HOLD said easement and right of way unto the Grantee, its successors and assigns forever.

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And the said Grantor, for Himself and his heirs, executors, and administrators, hereby covenants with the said Grantee, its successors and assigns that he is the true and lawful owner of said premises, and has lawfully seised of the same in fee simple, and has good right and full power, to grant, bargain, sell, convey and release the same in manner aforesaid, and that the same are free and clear from all liens and encumbrances whatsoever, and that he will warrant and defend the same against all claims of all persons whomsoever.

And for the consideration aforesaid John F. Haag, Jr. and Florence Haag, his wife, who hereby relinquish to said Grantee, its successors and assigns, all right and expectancy of Dower in the above described premises.

IN WITNESS WHEREOF John F. Haag, Jr. and Florence Haag, his wife have hereunto set their hands, the 2nd day of November, in the year of our Lord one thousand nine hundred and sixty-two.

Signed and sealed in presence of:

Robert L. DeVictor

Nancy Schuyler

John F. Haag, Jr.

Florence Haag

STATE OF OHIO.
Franklin COUNTY } ss.:

Before me, a Notary Public in and for said County and State, personally appeared the above named John F. Haag, Jr. and Florence Haag who acknowledged that they did sign the foregoing instrument and that the same is their free act and deed.

IN TESTIMONY WHEREOF I have hereunto set my hand and official seal at Columbus, Ohio this 2nd day of November, A. D. 1962.

Robert L. DeVictor