

STANDARD DRAWING LEGEND		
FOR ENTIRE PLAN SET (NOT TO SCALE)		
EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
---	ONSITE PROPERTY LINE / R.O.W. LINE	---
---	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	---
---	EASEMENT LINE	---
---	SETBACK LINE	---
CURB AND GUTTER		
---	CONCRETE CURB & GUTTER	---
---	UTILITY POLE WITH LIGHT	---
---	POLE LIGHT	---
---	TRAFFIC LIGHT	---
---	UTILITY POLE	---
---	TYPICAL LIGHT	---
---	ACORN LIGHT	---
---	TYPICAL SIGN	---
---	PARKING COUNTS	---
---	CONTOUR LINE	---
---	SPOT ELEVATIONS	---
---	SANITARY LABEL	---
---	STORM LABEL	---
---	SANITARY SEWER LATERAL	---
---	UNDERGROUND WATER LINE	---
---	UNDERGROUND ELECTRIC LINE	---
---	UNDERGROUND GAS LINE	---
---	OVERHEAD WIRE	---
---	UNDERGROUND TELEPHONE LINE	---
---	STORM SEWER	---
---	SANITARY SEWER MAIN	---
---	HYDRANT	---
---	SANITARY MANHOLE	---
---	STORM MANHOLE	---
---	WATER METER	---
---	WATER VALVE	---
---	GAS VALVE	---
---	GAS METER	---
---	TYPICAL END SECTION	---
---	HEADWALL OR ENDWALL	---
---	YARD INLET	---
---	CURB INLET	---
---	CLEAN OUT	---
---	ELECTRIC MANHOLE	---
---	TELEPHONE MANHOLE	---
---	ELECTRIC BOX	---
---	ELECTRIC PEDESTAL	---
---	MONITORING WELL	---
---	TEST PIT	---
---	BENCHMARK	---
---	BORING	---

STANDARD ABBREVIATIONS			
FOR ENTIRE PLAN SET			
AC	ACRES	POG	POINT OF GRADE
ADA	AMERICANS WITH DISABILITY ACT	PROP	PROPOSED
ARCH	ARCHITECTURAL	PT	POINT OF TANGENCY
BC	BOTTOM OF CURB	PTCR	POINT OF TANGENCY, CURB RETURN
BF	BASEMENT FLOOR	PVC	POLYVINYL CHLORIDE PIPE
BK	BLOCK	PVI	POINT OF VERTICAL INTERSECTION
BL	BASELINE	PVT	POINT OF VERTICAL TANGENCY
BLDG	BUILDING	R	RADIUS
BM	BUILDING BENCHMARK	RCP	REINFORCED CONCRETE PIPE
BRL	BUILDING RESTRICTION LINE	RET WALL	RETAINING WALL
CF	CUBIC FEET	R/W	RIGHT OF WAY
CL	CENTERLINE	S	SLOPE
CMP	CORRUGATED METAL PIPE	SAN	SANITARY SEWER
CONN	CONNECTION	SF	SQUARE FEET
CONC	CONCRETE	STA	STATION
CPP	CORRUGATED PLASTIC PIPE	STM	STORM
CY	CUBIC YARDS	SW	SIDEWALK
DEC	DECORATIVE	TBR	TO BE REMOVED
DEP	DEPRESSED	TBRL	TO BE RELOCATED
DIP	DUCTILE IRON PIPE	TC	TOP OF CURB
DOM	DOMESTIC	TELE	TELEPHONE
ELEC	ELECTRIC	TPF	TREE PROTECTION FENCE
ELEV	ELEVATION	TW	TOP OF WALL
EP	EDGE OF PAVEMENT	TYP	TYPICAL
ES	EDGE OF SHOULDER	UG	UNDERGROUND
EW	END WALL	UP	UTILITY POLE
EX	EXISTING	W	WIDE
FES	FLARED END SECTION	WAL	WATER LINE
FF	FINISHED FLOOR	WM	WATER METER
FH	FIRE HYDRANT	±	PLUS OR MINUS
FG	FINISHED GRADE	°	DEGREE
G	GRADE	Ø	DIAMETER
GF	GARAGE FLOOR (AT DOOR)	#	NUMBER
GH	GRADE HIGHER SIDE OF WALL		
GL	GRADE LOWER SIDE OF WALL		
GRT	GRATE		
GV	GATE VALVE		
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HP	HIGH POINT		
HOR	HORIZONTAL		
HW	HEADWALL		
INT	INTERSECTION		
INV	INVERT		
LF	LINEAR FOOT		
LOC	LIMITS OF CLEARING		
LOD	LIMITS OF DISTURBANCE		
LOS	LINE OF SIGHT		
LP	LOW POINT		
LS	LANDSCAPE		
MAX	MAXIMUM		
MIN	MINIMUM		
MH	MANHOLE		
MJ	MECHANICAL JOINT		
OC	ON CENTER		
PA	POINT OF ANALYSIS		
PC	POINT CURVATURE		
PCCR	POINT OF COMPOUND CURVATURE, CURB RETURN		
PI	POINT OF INTERSECTION		

STORMWATER AND SEDIMENT CONTROL PLAN

FOR TACO BELL, TAKOMA PARK

LOCATION OF SITE

1300 HOLTON AVE. TAKOMA PARK, MD 20912 MONTGOMERY COUNTY, MARYLAND

City of Takoma Park

DEPARTMENT OF PUBLIC WORKS
Telephone: 301-891-7633
5/12/2015 May 12, 2015 FAX: 301-891-2405

31 Owego Avenue
Silver Spring, MD 20910

Mr. Bradford Fox, P.E.
Bohler Engineering
16701 Melford Blvd.
Bowie, MD 20715

Re: SWC 15-03-01 Takoma
7681 New Hampshire Avenue,
Takoma Park MD (Taco Bell)

Dear Mr. Fox:

This is to inform you that the above reference application has been reviewed. The referenced Concept Approval application and response package submitted on 5/12/2015 were found acceptable. A tree protection plan approved by the City Arborist, if required for this project should be obtained as a condition of this approval.

Please refer to Takoma Code title 16 for complete description of Stormwater Management Plan Permit requirements. A summary of SWM Permit requirement documents is listed below for your convenience.

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10. Takoma Park Code Section 16.04.30 provides that "

"The City Manager, in his or her sole discretion, may accept the certification of a registered professional engineer licensed in Maryland in lieu of any inspection during construction required by this chapter".

Under this option, the owner shall in a letter name the professional engineer registered in Maryland who would be providing inspection and certification for all the stages of construction described in the referenced section of Takoma Code including preparation and presentation of the final As-Built plans and certifications.

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Sincerely,

Ali Khalilian
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City Engineer
City of Takoma Park
cc: Daryl Braithwaite
Todd Bolton
File

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May 12, 2015

LOCATION MAP **DEVELOPER/APPLICANT** **OWNER**

COPYRIGHT 2003
DELORE STREET ATLAS 2004 PLUS USA
SCALE: 1"=200'

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100 EAST LANCASTER AVENUE, SUITE 200
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COVER SHEET	C-002
PHASE I - EROSION AND SEDIMENT CONTROL PLAN	C-003
PHASE II - EROSION AND SEDIMENT CONTROL PLAN	C-004
MICRO - BIORETENTION DETAILS	SWM-4

AS BUILT CERTIFICATION

I hereby certify that the stormwater management facility shown on the plans has (have) been constructed in accordance with the plans approved by the City of Takoma Park except as noted in re on the "AS BUILT" drawings

Name _____ Signature _____

Maryland registration number _____ Date _____

MDE No. _____ Facility Identification (number and/or type) _____

Certify means to state or declare a professional opinion based on sufficient and appropriate site inspections and material test conducted during construction.

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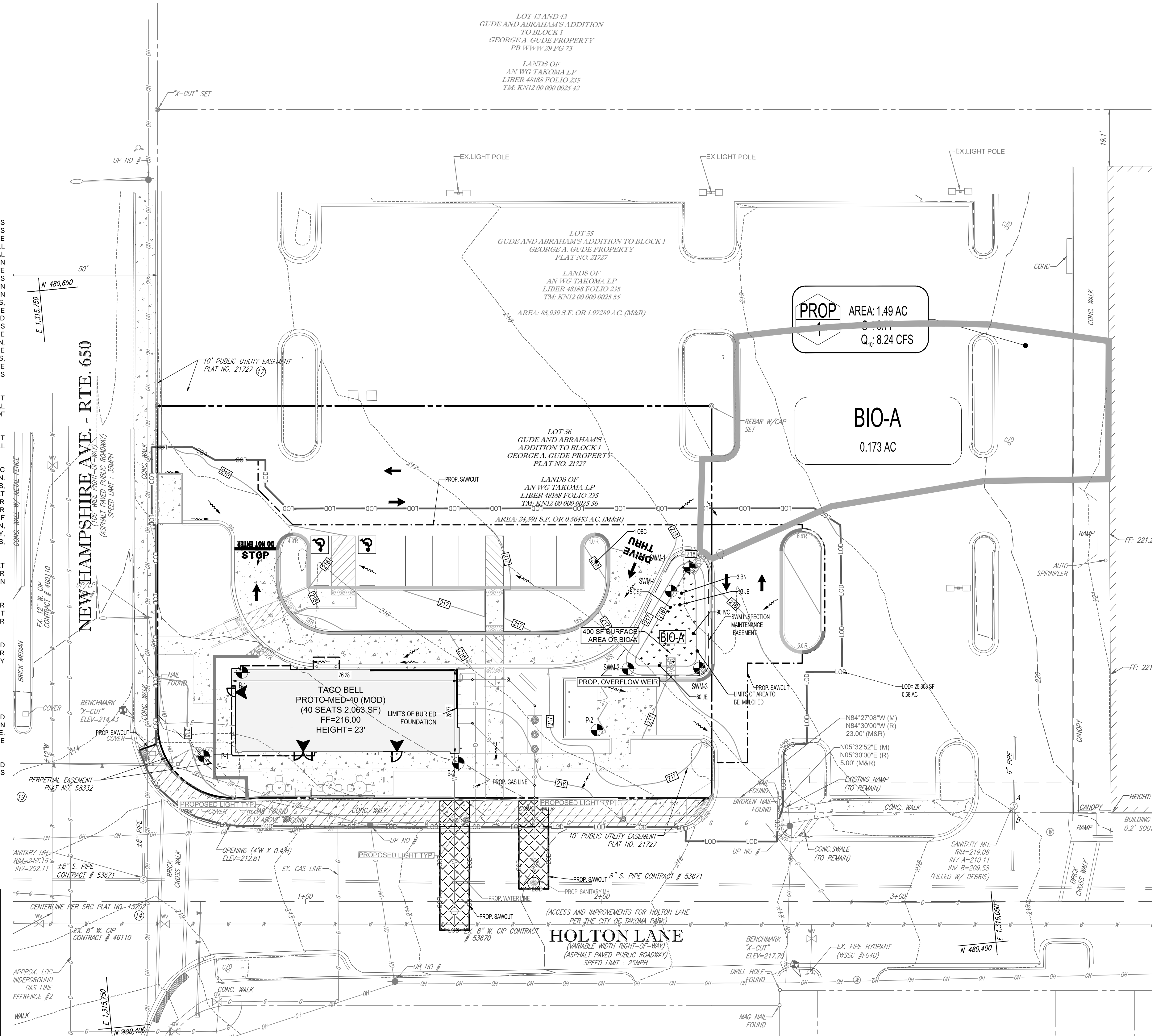
STANDARD EROSION AND SEDIMENT CONTROL NOTES

- The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department.
- The permittee must obtain inspection and approval by DPS at the following points:
 - At the required pre-construction meeting.
 - Following installation of sediment control measures and prior to any other land disturbing activity.
 - During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory.
 - Prior to removal or modification of any sediment control structure(s).
 - Prior to final acceptance.
- The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbing activities, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department.
- The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfares. All materials deposited onto public thoroughfares shall be removed immediately.
- The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
 - Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.
- All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.
- The permittee shall apply sod, seed, and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.
- Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.
- The site permit, work, materials, approved SC/SM plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County.
- Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slopes without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
- Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.
- Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.
- No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
- The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
- For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.
- Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.
- All inlets in non-stump areas shall have asphalt berms installed at the time of base paving establishment.
- The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.
- Sediment traps/basins(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for S1-III) or when required by the sediment control inspector.
- Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
- All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
- No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.
- Off-site spoil or borrow areas must have prior approval by DPS.

- Sediment trap/basin dewatering for cleanout or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:
 - Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or
 - the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or
 - the pump intake may be floated and discharge into a Dirt Bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area.
- Remember:** Dewatering operation and method must have prior approval by the DPS inspector.
- The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
 - Topsoil must be applied to all previous areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments".

GRADING NOTES

- SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS MUST BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIAL FOR SIDEWALKS, CURBS, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO.
- PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. CONTRACTOR MUST CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS LIMIT GRADES), TO PREVENT FLOODING. CONTRACTOR MUST IMMEDIATELY IDENTIFY, IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER NOTIFICATION, MUST BE AT THE CONTRACTOR'S OWN RISK AND FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. IT IS CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME.
- IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE AND CONTROL. CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS.
- CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK ANY WORK.
- STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR IS RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS.
- CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH COUNTY AND/OR STATE DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.
- CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.



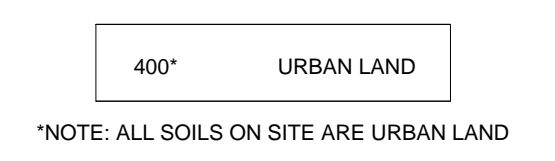
STAGE	COUNTY INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation for Micro Bioretention facility conforms to approved plans		
2. Placement of stone backfill and underdrain system conforms to approved plans		
3. Placement of filter media conforms to approved plans		
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

TOTAL NUMBER OF MICRO BIORETENTION FACILITIES INSTALLED PER THIS PERMIT:
 APPROVED _____ CONSTRUCTED _____

SAND SPECIFICATIONS:
 Washed ASTM C33 Fine Aggregate Concrete Sand is utilized for stormwater management applications in Montgomery County. In addition to the ASTM C33 specification, sand must meet ALL of the following conditions:

- Sand must meet gradation requirements for ASTM C-33 Fine Aggregate Concrete Sand. AASHTO M-6 gradation is also acceptable.
- Sand must be silica based... no limestone based products may be used. If the material is white or gray in color, it is probably not acceptable.
- Sand must be clean. Natural, unwashed sand deposits may not be used. Likewise, sand that has become contaminated by improper storage or installation practices will be rejected.
- Manufactured sand or stone dust is not acceptable under any circumstance.

SOILS LEGEND



LIMIT OF DISTURBANCE = 0.58 ± AC.

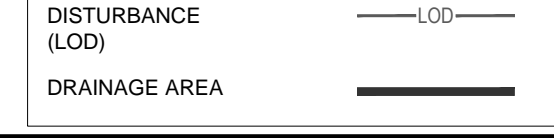
ESD PRACTICE SUMMARY

AREA (SF)	MICRO BIO ESD PROVIDED (CF)
BIO-A	756
	118

GENERAL NOTES

- THIS PLAN IS BASED UPON THE FOLLOWING ALTA/ACSM LAND TITLE SURVEY:
 PREPARED BY: BOHLER ENGINEERING
 TITLED: "TACO BELL-TAKOMA PARK
 7811 NEW HAMPSHIRE AVE.
 (13TH) ELECTION DISTRICT
 MONTGOMERY COUNTY, MARYLAND"
 FIELD DATE: 12/09/14
 DATED: 12/10/14
 PROJECT NO.: SB14200601
- NO ERODIBLE SOILS OR STEEP SLOPES EXIST WITHIN THE LIMITS OF DISTURBANCE.
- REDEVELOPMENT STORMWATER WQ₂ COMPUTATIONS:
 LIMIT OF DISTURBANCE = 0.58 ACRES
 EXISTING IMPERVIOUS AREA = 0.56 ACRES
 PROPOSED IMPERVIOUS AREA = 0.44 ACRES
 REDUCED IMPERVIOUS AREA = 0.12 ACRES OR 20.7%
 TOTAL REQUIRED AREA TO BE TREATED = 6,076 SF
 TOTAL PROVIDED AREA TO BE TREATED = 7,536 SF
 VOLUME REQUIRED TO BE TREATED = 962 CF
 VOLUME PROVIDED TO BE TREATED = 1,144 CF

LEGEND



PROFESSIONAL CERTIFICATION
 I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 39989, EXPIRATION DATE: 3/15/2017

BOHLER ENGINEERING
 SITE EVALUATION, DESIGN, CONSTRUCTION ADMINISTRATION, LANDSCAPE ARCHITECTURE, SUSTAINABLE DESIGN, PROGRAM MANAGEMENT, PERMITTING SERVICES, TRANSPORTATION SERVICES
 LAND SURVEYING, PROGRAM MANAGEMENT, TRANSPORTATION SERVICES
 ● BALTIMORE, MD
 ● BETHESDA, MD
 ● GAITHERSBURG, MD
 ● GREENBELT, MD
 ● HYATTSVILLE, MD
 ● NEW YORK, NY
 ● PHOENIX, AZ
 ● RICHMOND, VA
 ● SOUTH EASTERN PA
 ● WASHINGTON, DC
 ● WASHINGTON STATE
 ● WISCONSIN
 ● VIRGINIA
 ● WEST VIRGINIA
 ● WYOMING

REVISIONS

REV	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR OTHER PERSONS PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL: 811 (WV 1-800-242-6848) (PA 1-800-242-1776) (DC 1-800-257-7777) (VA 1-800-552-7071) (MD 1-800-257-7777) (DE 1-800-262-8889)

TACO BELL TAKOMA PARK

FOR MUY
TACO BELL
 LOCATION OF SITE
 1300 HOLTON LANE
 TAKOMA PARK, MD 20912
 MONTGOMERY COUNTY

BOHLER ENGINEERING
 16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
 Phone: (301) 809-4500
 Fax: (301) 809-4501
 MD@BohlerEng.com

PROGRESS SET
 3/09/16
 FOR BIDDING PURPOSES ONLY

SHEET TITLE:
STORMWATER AND GRADING PLAN

SHEET NUMBER:
C-005
 OF 15

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Base Course - The base course shall be AASHTO No. 3 or 4 course aggregate with an assumed open pore space of 30% (n = 0.30).

3. Reinforced Turf

Reinforced Grass Pavement (RGP) - Whether used with grass or gravel, the RGP thickness shall be at least 1 1/2" thick with a load capacity capable of supporting the traffic and vehicle types that will be carried.

B.4.C Specifications for Micro-Bioretenion, Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretenion practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:

- Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content - Media shall have a clay content of less than 5%.
- pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textual analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are

Supp. 1 B.4.4

Appendix B.4. Construction Specifications for Environmental Site Design Practices

excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

Recommended plant material for micro-bioretenion practices can be found in Appendix A, Section A.2.3.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8" of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

B.4.5 Supp. 1

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

7. Miscellaneous

These practices may not be constructed until all contributing drainage area has been stabilized

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwovens
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3, f _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-A15-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.3R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressure); and analysis of potential cracking. Sand substitutions such as Diabase and Gneiss (AASHTO #10) are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	

B.4.7 Supp. 1

Supp. 1 B.4.4

Appendix B.4. Construction Specifications for Environmental Site Design Practices

excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

Recommended plant material for micro-bioretenion practices can be found in Appendix A, Section A.2.3.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

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B.4.5 Supp. 1

Appendix B.4. Construction Specifications for Environmental Site Design Practices

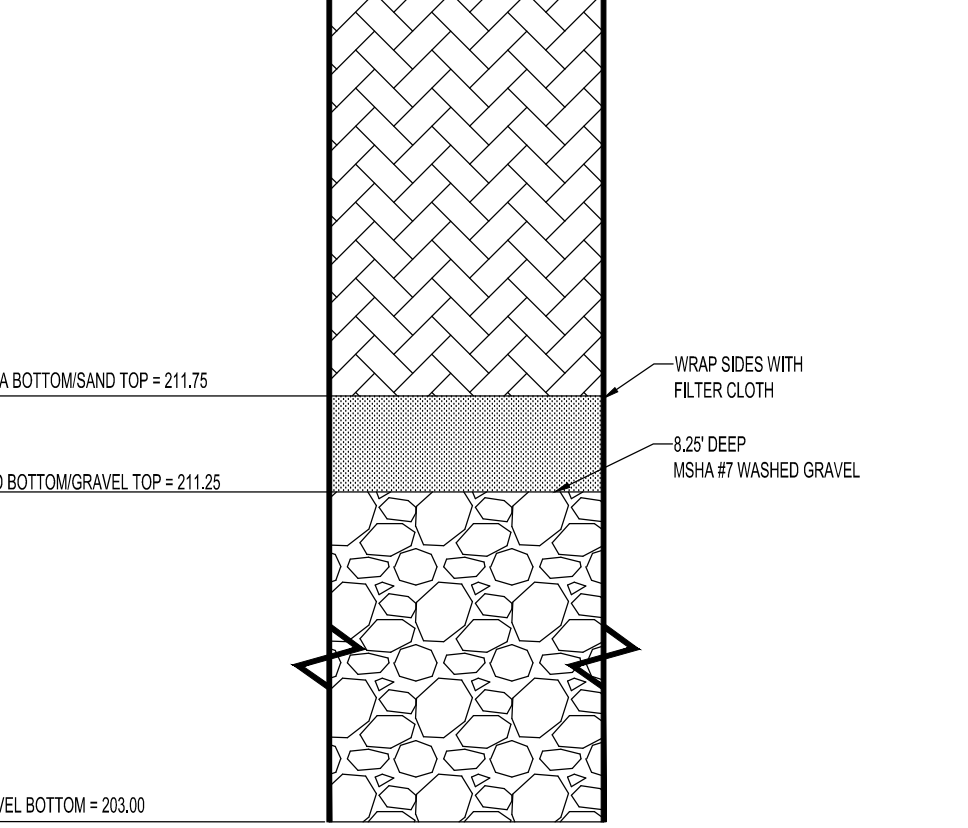
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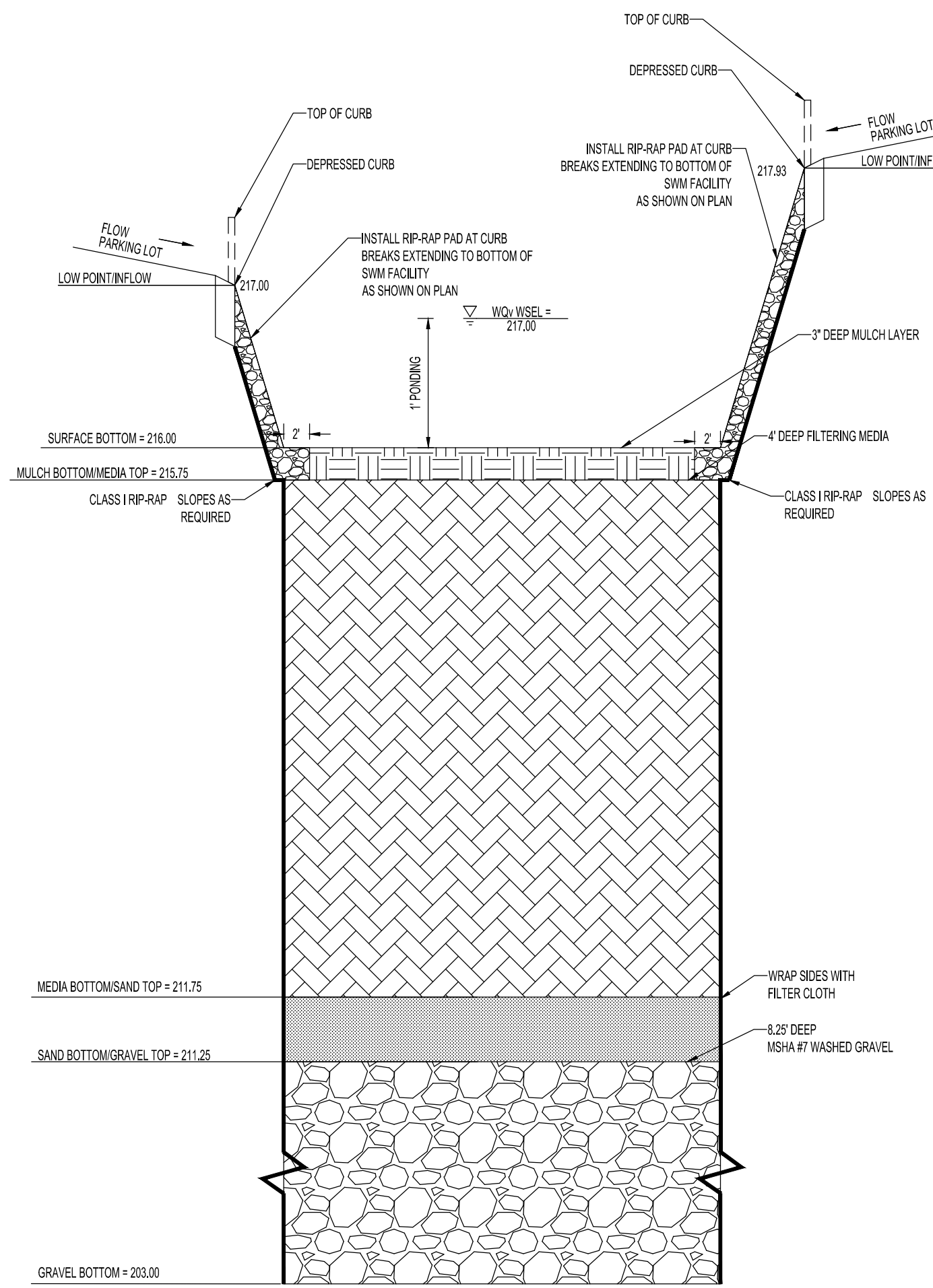
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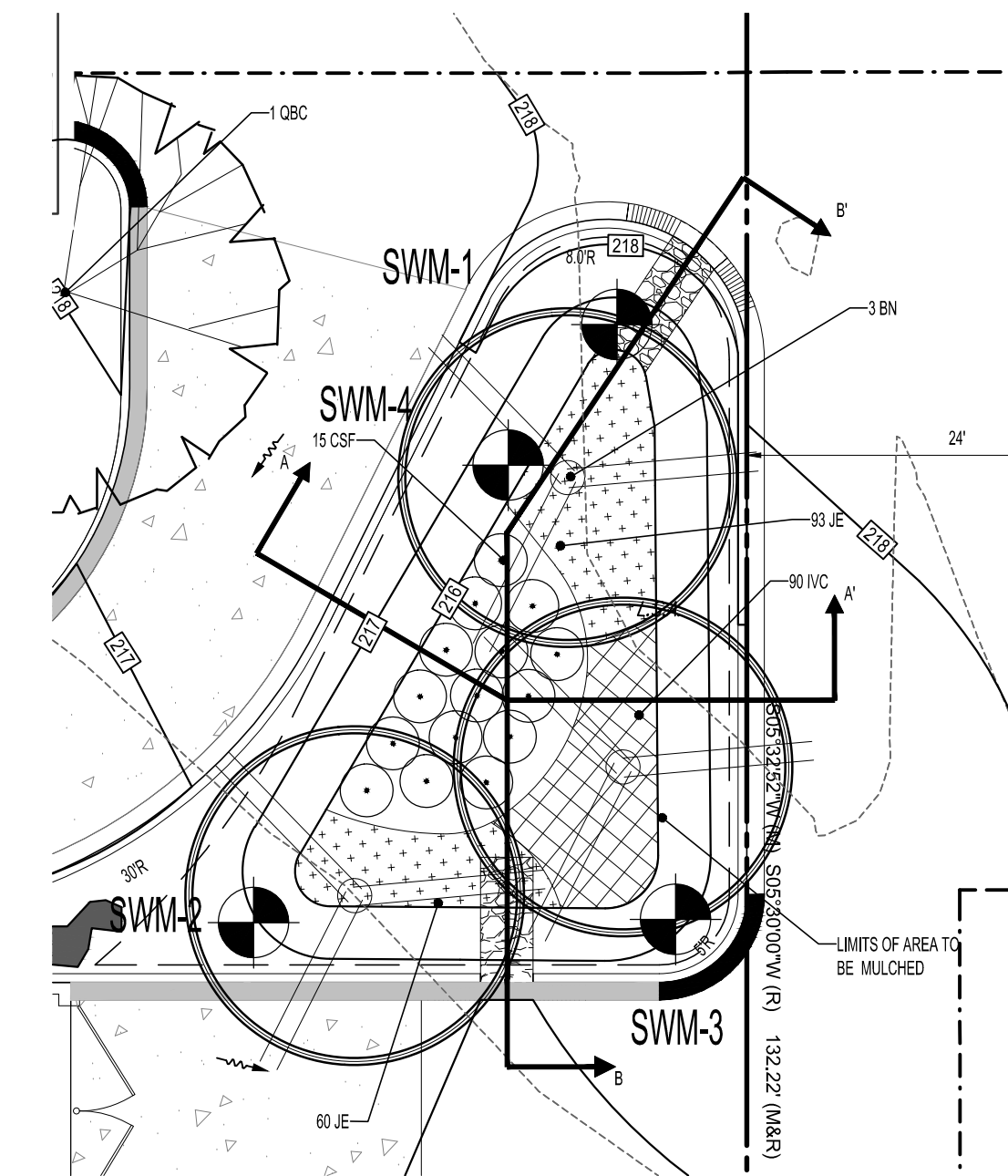


CROSS SECTION A-A' NOT TO SCALE



CROSS SECTION B-B' NOT TO SCALE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREES(S)					
BN	3	BETULA NIGRA	MULTI STEM RIVER BIRCH	12-14"	8-8
SUBTOTAL:					
DECIDUOUS SHRUB(S)					
CSF	15	CORNUS SERICEA FLAVIRAMEX	YELLOW TWIG DOGWOOD	2-3"	8-8
SUBTOTAL:					
PERENNIAL(S)					
IVC	90	IRIS VERSICOLOR	BLUE FLAG IRIS	PLUG	
JE	143	JUNCUS EFFUSUS	COMMON RUSH	PLUG	
SUBTOTAL:					



PLAN VIEW 1"=10'

STAGE	COUNTY INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a pre-scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
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3. Placement of filter media conforms to approved plans		
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

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BOHLER ENGINEERING
 SITE EVALUATION, DESIGN, CONSTRUCTION, MAINTENANCE, LANDSCAPE ARCHITECTURE
 LAND SURVEYING, PROGRAM MANAGEMENT, PERMITTING SERVICES, SUSTAINABLE DESIGN
 WASHINGTON, DC • BALTIMORE, MD • ANNAPOLIS, MD • ARLINGTON, VA • BETHESDA, MD • BOSTON, MA • CHARLOTTE, NC • CHICAGO, IL • COLUMBIA, SC • DALLAS, TX • DENVER, CO • HOUSTON, TX • JEFFERSON CITY, MO • KANSAS CITY, MO • LOS ANGELES, CA • MEMPHIS, TN • NEW YORK, NY • PHOENIX, AZ • RICHMOND, VA • TAMPA, FL • WASHINGTON, DC

REV	DATE	COMMENT	BY

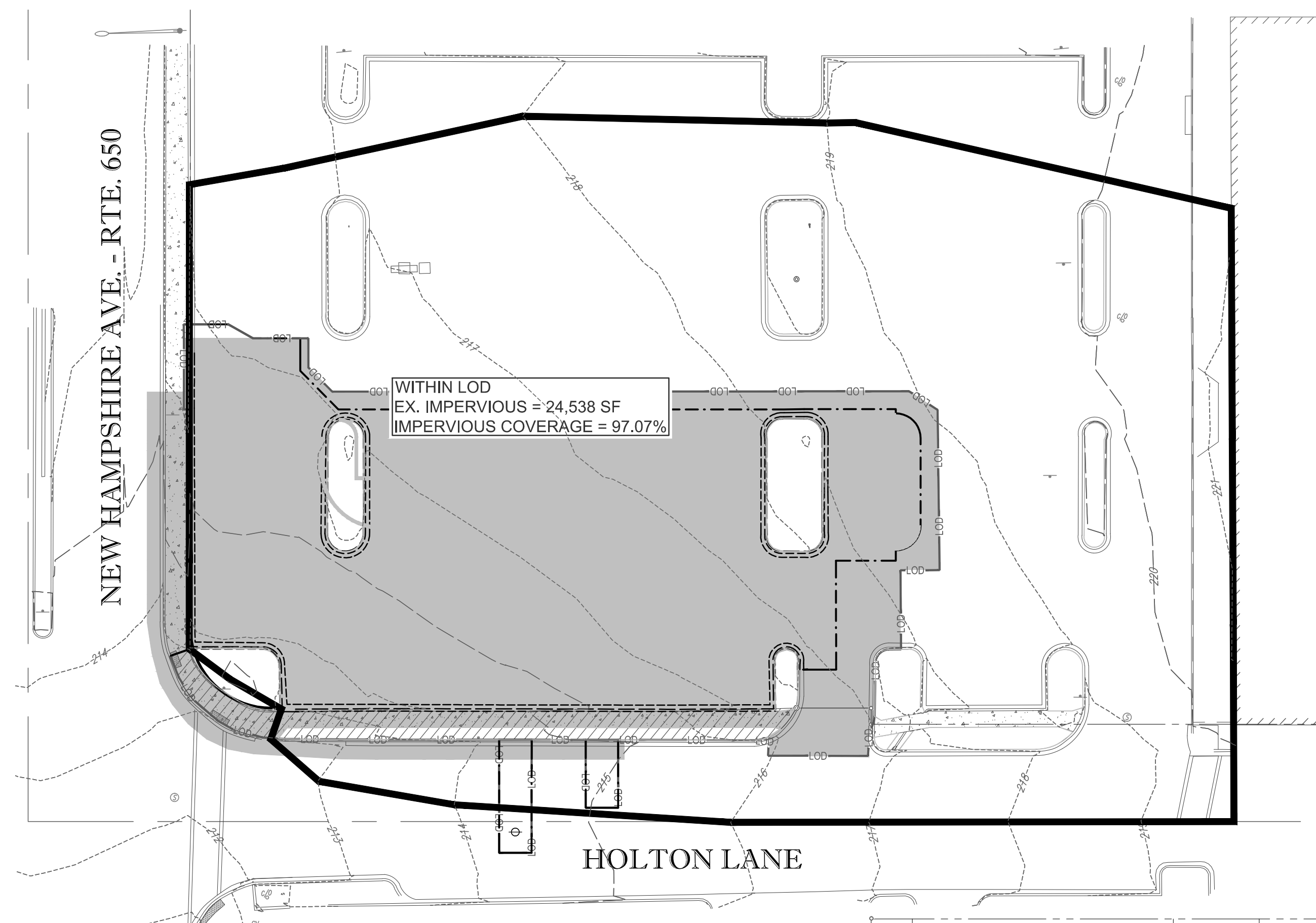
NOT APPROVED FOR CONSTRUCTION
 PROJECT No.: MB14200601
 DRAWN BY: JDC
 CHECKED BY: BLF
 DATE: 11/24/15
 SCALE: AS SHOWN
 CAD I.D.: SW1

TACO BELL TAKOMA PARK
 FOR MUY
TACO BELL
 LOCATION OF SITE
 1300 HOLTON LANE
 TAKOMA PARK, MD 20912
 MONTGOMERY COUNTY

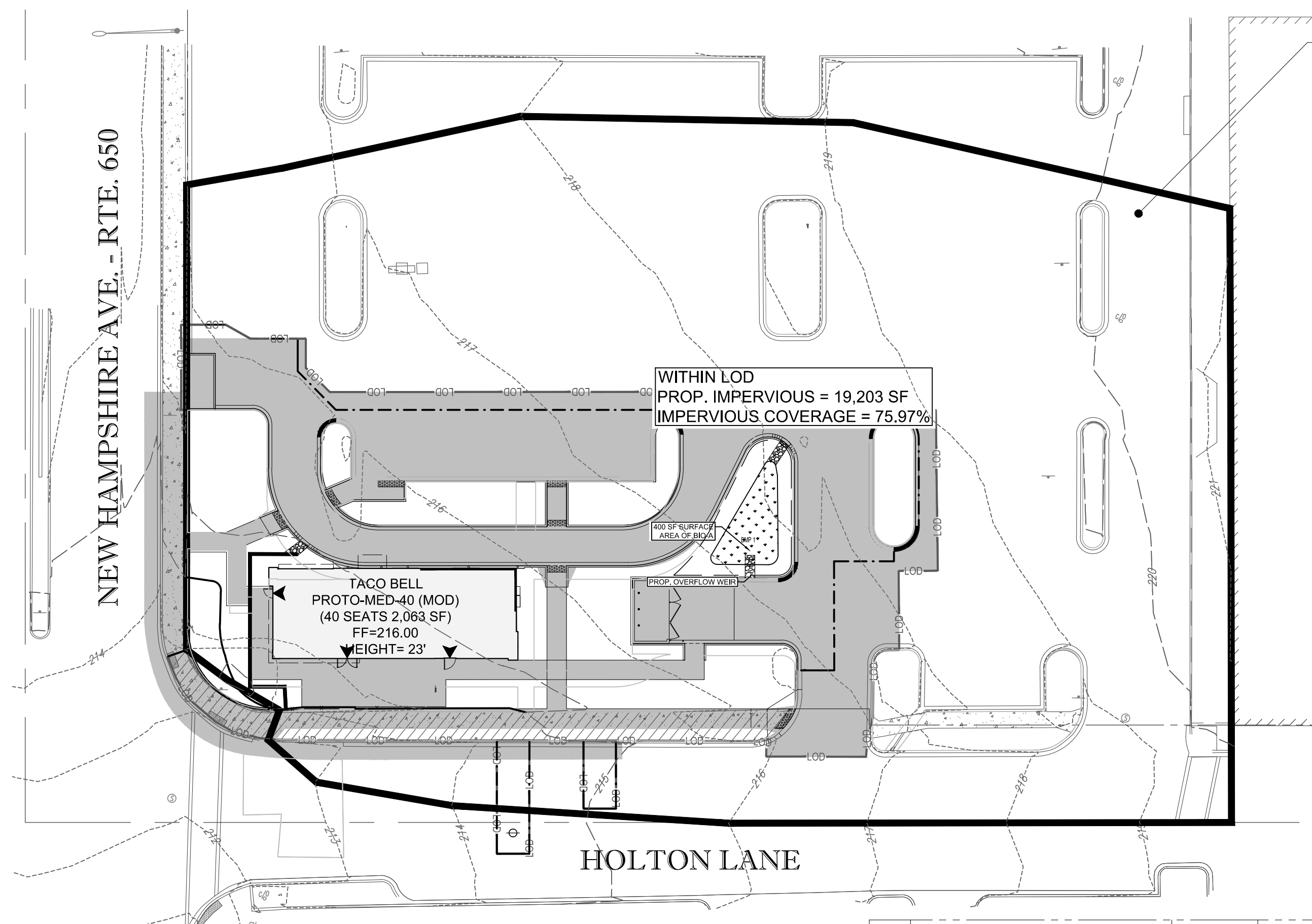
BOHLER ENGINEERING
 16701 Melford Blvd., Suite 310
 Bowie, Maryland 20715
 Phone: (301) 809-4500
 Fax: (301) 809-4501
 MD@BohlerEng.com

PROGRESS SET
 3/09/16
FOR BIDDING PURPOSES ONLY

SHEET TITLE:
TRENCH DRAIN PROFILE AND MICRO-BIO DETAILS
 SHEET NUMBER:
C-006
 OF 15

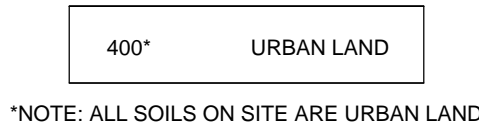


PRE-DEVELOPMENT DRAINAGE AREA
1"=30'



POST-DEVELOPMENT DRAINAGE AREA
1"=30'

SOILS LEGEND



*NOTE: ALL SOILS ON SITE ARE URBAN LAND

LIMIT OF DISTURBANCE = 0.58 ± AC.

ESD PRACTICE SUMMARY

	AREA (SF)	MICRO-BIO ESDv PROVIDED (CF)
BIO-A	758	188

City of Takoma Park

DEPARTMENT OF PUBLIC WORKS
Telephone: 301.891.7633
5/12/2015 May 12, 2015 FAX: 301-585-2405



31 Owego Avenue
Silver Spring, MD 20910

May 12, 2015

Mr. Bradford Fox, P.E.
Bohler Engineering
16701 Melford Blvd.
Bowie, MD 20715

Re: SWC 15-03-01 Takoma
7681 New Hampshire Avenue,
Takoma Park MD (Taco Bell)

Dear Mr. Fox:

This is to inform you that the above reference application has been reviewed. The referenced Concept Approval application and response package submitted on 5/12/2015 were found acceptable. A tree protection plan approved by the City Arborist, if required for this project should be obtained as a condition of this approval.

Please refer to Takoma Code title 16 for complete description of Stormwater Management Plan Permit requirements. A summary expert of SWM Permit requirement documents is listed below for your convenience.

1. SWM Permit application.
2. Three (3) Copies of the final SWM plans
3. Sediment and Erosion Control set of plans approved by MC DPS.
4. Construction cost estimate of SWM facilities for the propose of setting the Bond
5. A Permit fee Equal to 10% of the total cost of SWM facilities
6. A performance Bond equal to the approved construction cost of the SWM facilities
7. Declaration of Covenants inspection/Maintenance of Stormwater Management System
8. Maintenance schedule developed for the life of SWM facilities installed on the Plans
9. Schedule for staged inspection and reports (Takoma Code 16.04.210, 16.04.260).
10. Takoma Park Code Section 16.04.30 provides that "

"The City Manager, in his or her sole discretion, may accept the certification of a registered professional engineer licensed in Maryland in lieu of any inspection during construction required by this chapter".

Under this option, the owner shall in a letter name the professional engineer registered in Maryland who would be providing inspection and certification for all the stages of construction described in the referenced section of Takoma Code including preparation and presentation of the final As-Built plans and certifications.

SWC 15-03-01 for 7681 New Hampshire Avenue, Takoma Park, MD (Taco Bell)

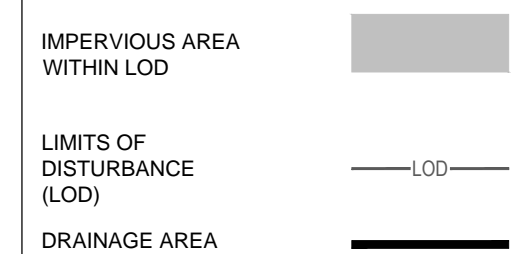
Upon Completion of the project and prior to Bond release, an as-built plan of the SWM facilities along with certification by a professional engineer shall be submitted to this department. I appreciate the opportunity to be of service; should you require additional assistance please call the undersigned at 301-8917620.

Sincerely,

Ali Khalilian

Ali Khalilian, P.E.
City Engineer
City of Takoma Park
cc: Daryl Braithwaite
Todd Bolton
File

LEGEND



GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

PROFESSIONAL CERTIFICATION
I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 39989, EXPIRATION DATE: 3/15/2017

BOHLER ENGINEERING

STATE OF MARYLAND LICENSE NO. 39989
LAND SURVEYING PROGRAM MANAGER
SUSTAINABLE DESIGN PROGRAM MANAGER
TRANSPORTATION SERVICES PERMITTING SERVICES

NEW YORK, NY
BALTIMORE, MD
BOSTON, MA
DALLAS, TX
DENVER, CO
HOUSTON, TX
LOS ANGELES, CA
MEMPHIS, TN
NEW ORLEANS, LA
PHILADELPHIA, PA
RICHMOND, VA
SAN ANTONIO, TX
WASHINGTON, DC

REVISIONS

REV	DATE	COMMENT	BY

NOT FOR CONSTRUCTION

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE: IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL: 811 (WV 1-800-245-4648) (PA 1-800-242-1776) (DC 1-800-257-7777) (VA 1-800-552-7071) (MD 1-800-257-7777) (DE 1-800-282-8555)

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: MB14200601
DRAWN BY: JDC
CHECKED BY: BLF
DATE: 12/08/15
SCALE: AS SHOWN
CAD I.D.: SW1

TACO BELL TAKOMA PARK

FOR MUY TACO BELL

LOCATION OF SITE
1300 HOLTON LANE
TAKOMA PARK, MD 20912
MONTGOMERY COUNTY

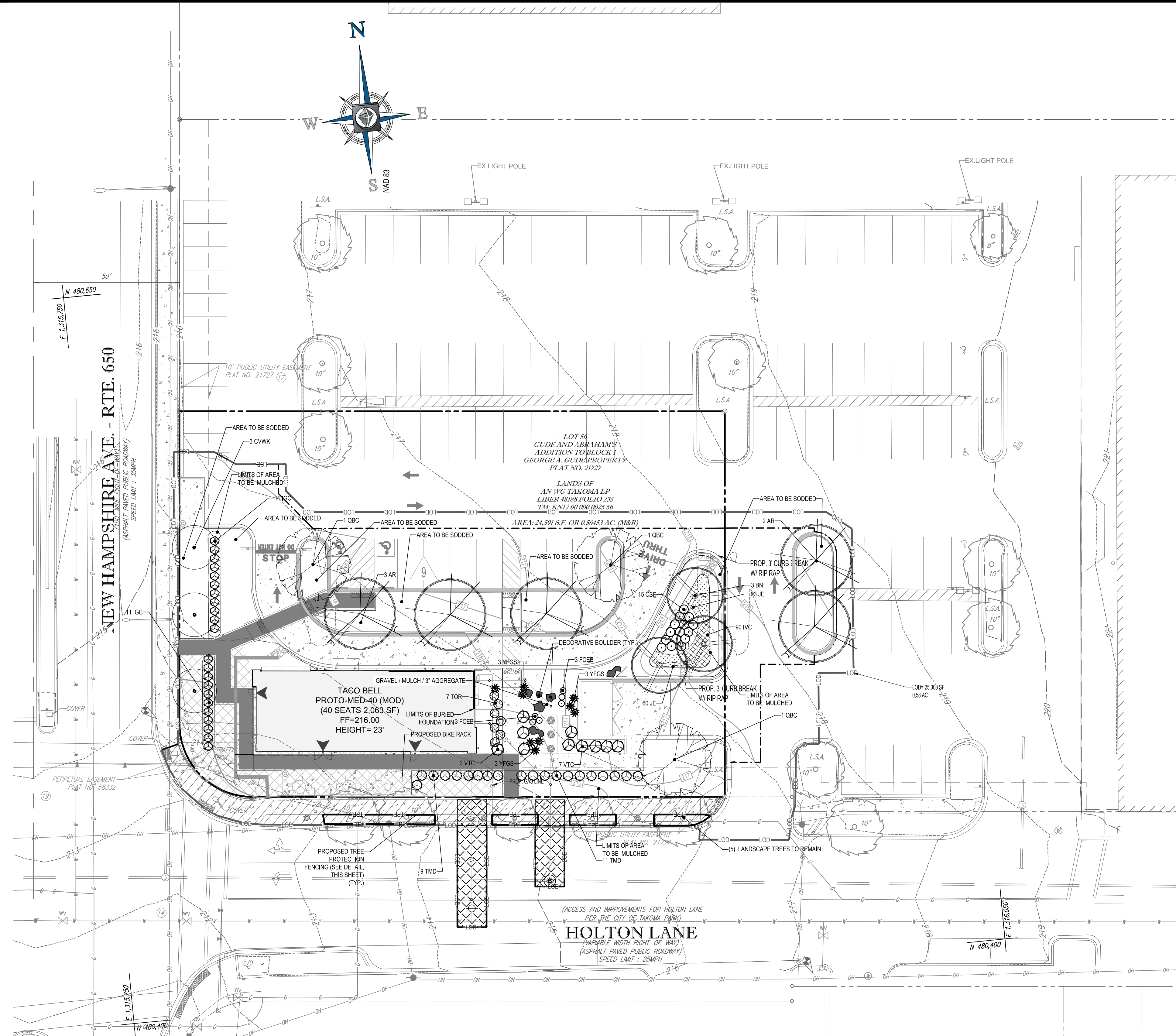
BOHLER ENGINEERING

16701 MELFORD BLVD., SUITE 310
BOWIE, MARYLAND 20715
Phone: (301) 809-4500
Fax: (301) 809-4501
MD@BohlerEng.com

PROGRESS SET
3/09/16
FOR BIDDING PURPOSES ONLY

SHEET TITLE:
DRAINAGE AREA MAP'S

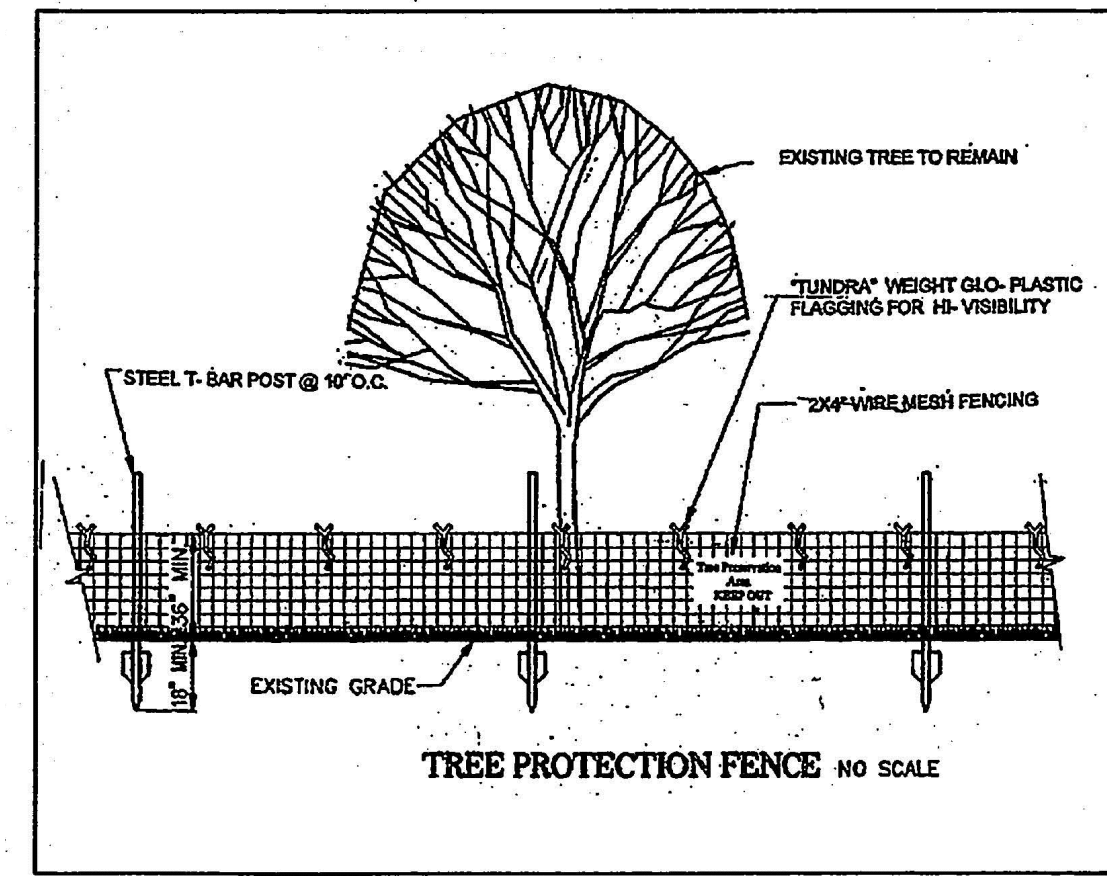
SHEET NUMBER:
C-008
OF 15



SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED	COMPLIANCE
59-E-2.71	PARKING FACILITIES LOCATED ADJACENT TO A STREET RIGHT-OF-WAY SHALL PROVIDE A LANDSCAPING STRIP AT LEAST 10 FEET IN WIDTH. THIS AREA SHALL BE PLANTED WITH EITHER SHADE OR ORNAMENTAL TREES. A MINIMUM OF ONE TREE FOR EVERY 40 FEET OF LOT FRONTAGE SHALL BE PROVIDED AS WELL AS AN EVERGREEN HEDGE (AT LEAST 3 FEET IN HEIGHT), A WALL OR FENCE, OR OTHER METHODS TO REDUCE THE VISUAL IMPACT OF THE PARKING FACILITY.	REQUIRED: NEW HAMPSHIRE AVE: 107 LF A MINIMUM WIDTH OF 10' HAS BEEN PROVIDED 107 LF/40 = 3 TREES PROVIDED: • 3 TREES • AN EVERGREEN HEDGE WHICH WILL OBTAIN A MINIMUM HEIGHT OF 3' AT MATURITY	COMPLIES
59-E-2.72	PARKING FACILITIES NOT LOCATED ADJACENT TO A STREET RIGHT-OF-WAY SHALL PROVIDE A LANDSCAPING STRIP AT LEAST 4 FEET IN WIDTH. THIS AREA SHALL BE PLANTED WITH SHADE TREES. A MINIMUM OF ONE TREE FOR EVERY 40 FEET OF PROPERTY LINE SHALL BE PROVIDED.	REQUIRED: EAST PROPERTY LINE: 132 LF A MINIMUM WIDTH OF 10' HAS BEEN PROVIDED 132 LF/40 = 4 TREES PROVIDED: • 4 LARGE SHADE TREES	COMPLIES
59-E-2.73	A MINIMUM OF 5 PERCENT OF THE INTERNAL AREA OF A SURFACE PARKING FACILITY SHALL BE LANDSCAPED WITH SHADE TREES. THE INTERNAL AREA OF A PARKING FACILITY IS DEFINED BY THE PERIMETER OF THE CURBS OR EDGE OF PAVING. THE INTERNAL AREA SHALL INCLUDE ALL PLANTING ISLANDS AND CORNER AREAS WITHIN THE FACILITY. THE SHADE TREES SHOULD BE DISTRIBUTED IN ORDER TO INCREASE SHADE. WHERE POSSIBLE, EXISTING TREES SHOULD BE SAVED FOR THIS PURPOSE.	REQUIRED: NORTH PROPERTY LINE: 187 LF A MINIMUM WIDTH OF 10' HAS BEEN PROVIDED 187 LF/40 = 5 TREES PROVIDED: • 5 LARGE SHADE TREES	COMPLIES
59-E-2.74	LANDSCAPING OF SURFACE PARKING FACILITY	PARKING LOT AREA: 13,422 S.F. (5%) = 672 S.F. REQUIRED 3,342 S.F. (GRASS) (17.4%) PROVIDED	COMPLIES

LANDSCAPE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREES(S)					
AR	5	ACER RUBRUM	RED MAPLE	2 1/2" CAL	#@B
BN	3	BETULA NIGRA	MULTI STEM BIRCH	12" 1"	#@B
QBC	3	QUERCUS BICOLO-R	SWAMP WHITE OAK	2 1/2" CAL	#@B
SUBTOTAL: 11					
ORNAMENTAL TREES(S)					
CVWK	3	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2 1/2" CAL	#@B
SUBTOTAL: 3					
DECIDUOUS SHRUB(S)					
CSF	15	CORNUS SERICEA 'FLAVIRAMEA'	YELLOW THYME DOGWOOD	2'3"	#@B
VTC	10	VIBURNUM TRILOBUM 'COMPACTUM'	COMPACT AMERICAN CRANBERRYBUSH	36-48"	#@B
SUBTOTAL: 25					
EVERGREEN SHRUB(S)					
IGC	22	ILEX GLABRA 'SHAMROCK'	INKBERRY HOLLY (FEMALE)	24-30"	#3 CAN, FEMALE ONLY
TMD	20	TAXUS MEDIA 'DENSIFORMIS'	DENSIFORMIS YEW	24-30"	#@B
TOR	7	THUJA OCCIDENTALIS 'PHENIGOLZ'	RHENGOLD ARBORVITAE	24-30"	#3 CAN
SUBTOTAL: 49					
PERENNIAL(S)					
IVC	90	IRIS VERSICOLOR	BLUE FLAG IRIS	PLUG	
JE	150	JUNCUS EFFUSUS	COMMON RUSH	PLUG	
YFGS	9	YUCCA FILAMENTOSA 'GOLDEN SWORD'	VARIEGATED ADAM'S NEEDLE	18-24"	#3 CAN
SUBTOTAL: 249					
ORNAMENTAL GRASSES(S)					
FCB	6	FESTUCA ONICREA 'ELIWAH'S BLUE'	BLUE FESCUE	1 GAL	CONTAINER
SUBTOTAL: 6					



- ### LANDSCAPE NOTES
- UTILITY EXCAVATION:** PROPOSED PUBLIC UTILITY CONNECTIONS (WATER AND SEWER) ARE LOCATED OUTSIDE CRITICAL ROOT ZONES AND CENTERED BETWEEN TREES AS DEPICTED.
 - TREE CARE EXPERT:** A TREE CARE EXPERT SHALL BE PRESENT DURING UTILITY EXCAVATION TO ENSURE NEARBY TREES ARE APPROPRIATELY PRUNED AND/OR PROTECTED. CONTRACTOR SHALL LIMIT EXCAVATION TO MINIMAL DEPTH NECESSARY TO PROVIDE PUBLIC UTILITY CONNECTIONS.
 - CONSTRUCTION OF SIDEWALK ALONG HOLTAN LANE:** CONTRACTOR SHALL CONSTRUCT THE HOLTAN LANE PROPOSED SIDEWALK THROUGH AREAS INTERNAL TO THE SITE AND SHALL AVOID OVERHEAD CONFLICTS WITH TREE CANOPIES AND OVERHEAD UTILITIES. CONTRACTOR SHALL LIMIT EXCAVATION TO MINIMAL DEPTH AND MINIMAL DISTURBANCE TO THE SUBGRADE NECESSARY TO PROVIDE AN ADA COMPLIANT SIDEWALK.

GENERAL NOTES

- M-NCPCC STAFF MUST INSPECT ALL TREE-SAVE AREAS AND PROTECTION DEVICES BEFORE ANY LAND DISTURBANCE.
- MINOR MODIFICATIONS TO THE LIMITS OF DISTURBANCE SHOWN ON THE SITE PLAN WITHIN THE PUBLIC RIGHT-OF-WAY FOR UTILITY CONNECTIONS MAY BE DONE DURING THE REVIEW OF THE RIGHT-OF-WAY PERMIT DRAWINGS BY THE CITY OF TAKOMA PARK AND/OR THE STATE HIGHWAY ADMINISTRATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT. WORK SHALL BE STOPPED IMMEDIATELY IN THE EVENT OF A CONFLICT WITH ANY FEDERAL, STATE, OR LOCAL REGULATIONS OR ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND ORDINANCES.

BOHLER ENGINEERING
 SITE VISUALIZATION, LANDSCAPE ARCHITECTURE, LAND SURVEYING, PROGRAM MANAGER, TRANSPORTATION SERVICES, SUSTAINABLE DESIGN, PERMITTING SERVICES
 BALTIMORE, MD • ANNAPOLIS, MD • WASHINGTON, DC • WASHINGTON FIELD OFFICE
 WASHINGTON FIELD OFFICE: 1000 EAST LANCASTER AVENUE, SUITE 200, DOWNTOWN, PA 19335
 PH: 610-518-2930
 FAX: 610-518-2930
 WWW.BOHLENG.COM

REVISIONS

REV	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXISTING DESIGNERS OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL: 811 (WV: 1-800-242-4648) (PA: 1-800-242-1776) (DC: 1-800-257-7777) (VA: 1-800-552-7071) (MD: 1-800-257-7777) (DE: 1-800-292-8559)

PROJECT No.: MB14200601
 DRAWN BY: AMW
 CHECKED BY: BLF
 DATE: 06/25/15
 SCALE: 1"=20'
 CAD I.D.: LL3

TACO BELL TAKOMA PARK

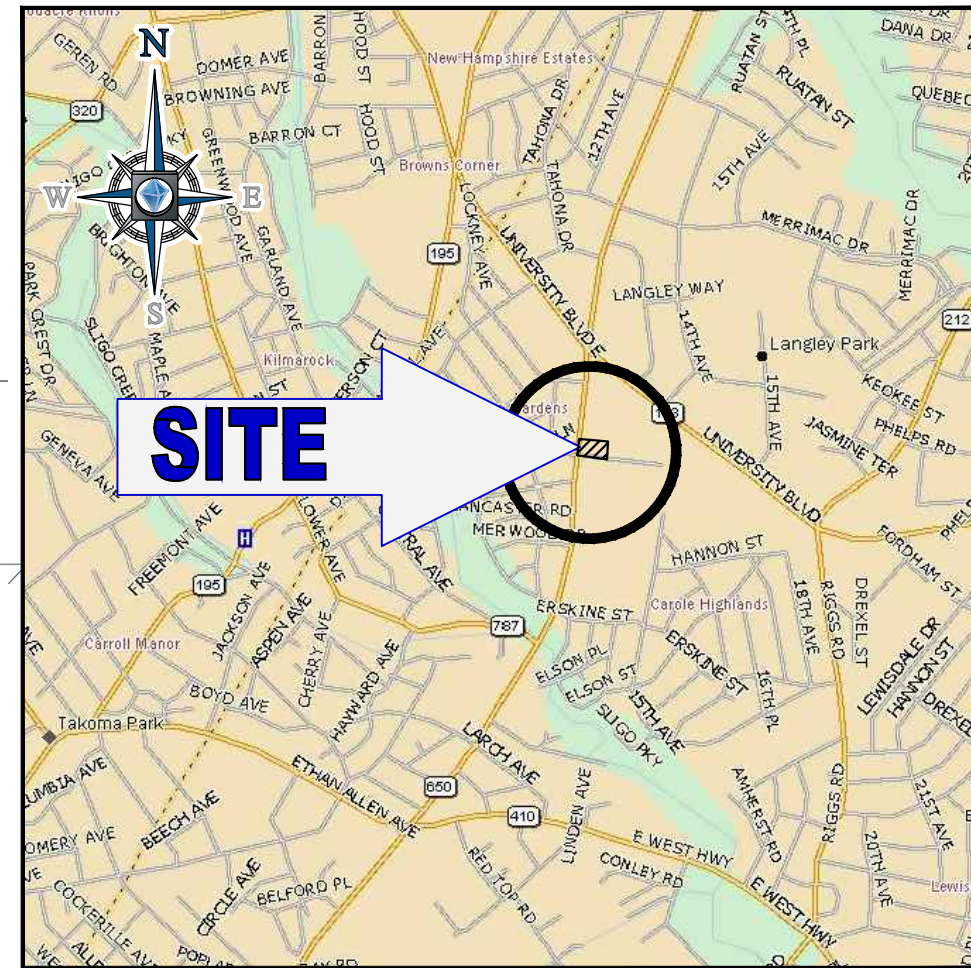
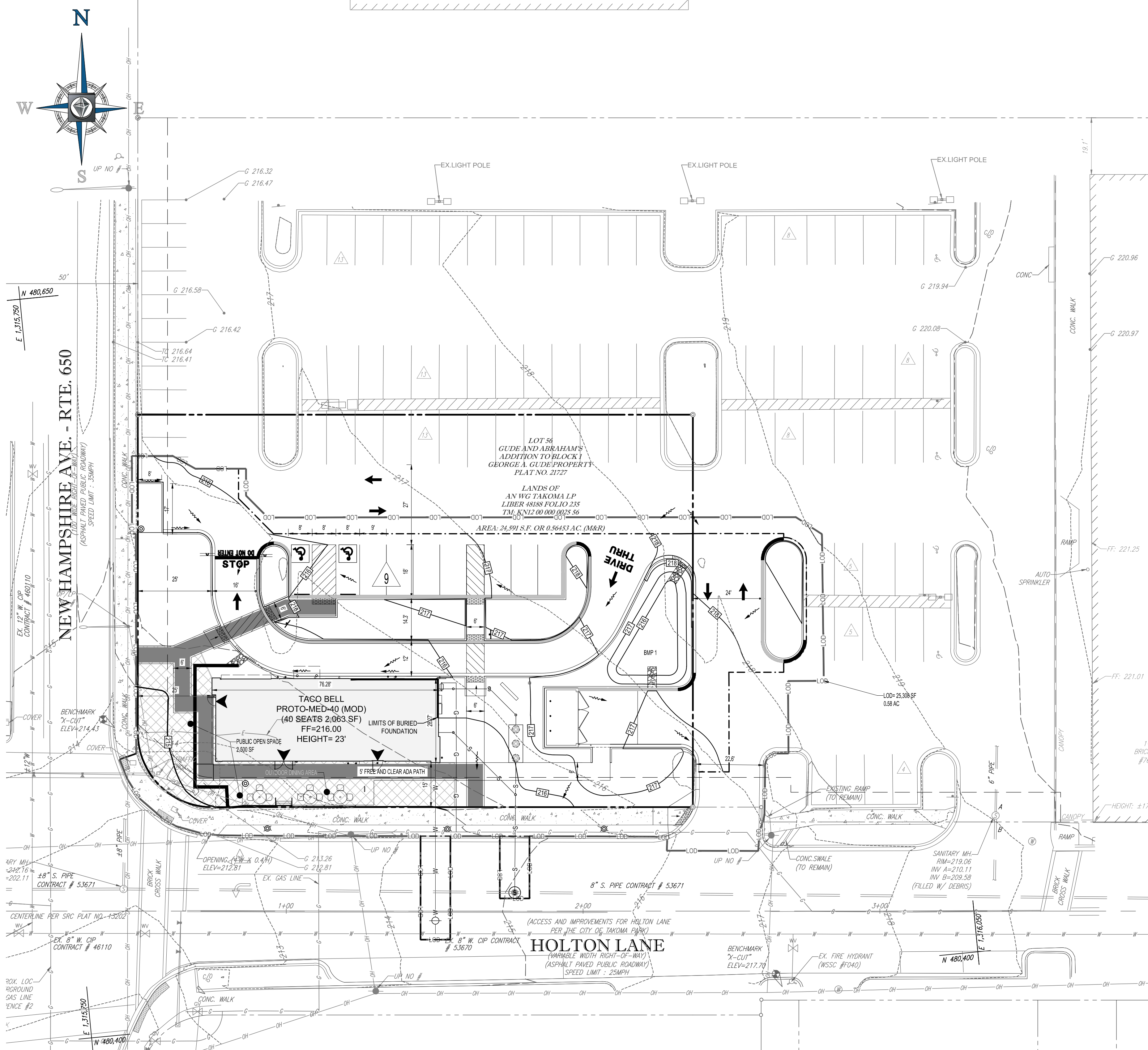
FOR
MUY
TACO BELL
LOCATION OF SITE
1300 HOLTAN LANE
TAKOMA PARK, MD 20912
MONTGOMERY COUNTY

BOHLER ENGINEERING
 16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
 Phone: (301) 809-4500
 Fax: (301) 809-4501
 MD@BohlerEng.com

PROGRESS SET
3/09/16
FOR BIDDING
PURPOSES
ONLY

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
C-009
 OF 15



LOCATION MAP
 COPYRIGHT 2003
 DELORME STREET ATLAS 2004 PLUS USA
 SCALE: 1"=2000'

LEGEND
 PUBLIC OPEN SPACE

REVISIONS

REV	DATE	COMMENT	BY

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NOT APPROVED FOR CONSTRUCTION

PROJECT No.: MB14200601
 DRAWN BY: AL
 CHECKED BY: BLF
 DATE: 06/25/15
 SCALE: AS SHOWN
 CAD I.D.: SS1

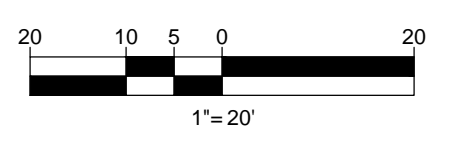
PROJECT:
TACO BELL TAKOMA PARK
 FOR
MUY TACO BELL
 LOCATION OF SITE
 1300 HOLTON LANE
 TAKOMA PARK, MD 20912
 MONTGOMERY COUNTY

BOHLER ENGINEERING
 16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
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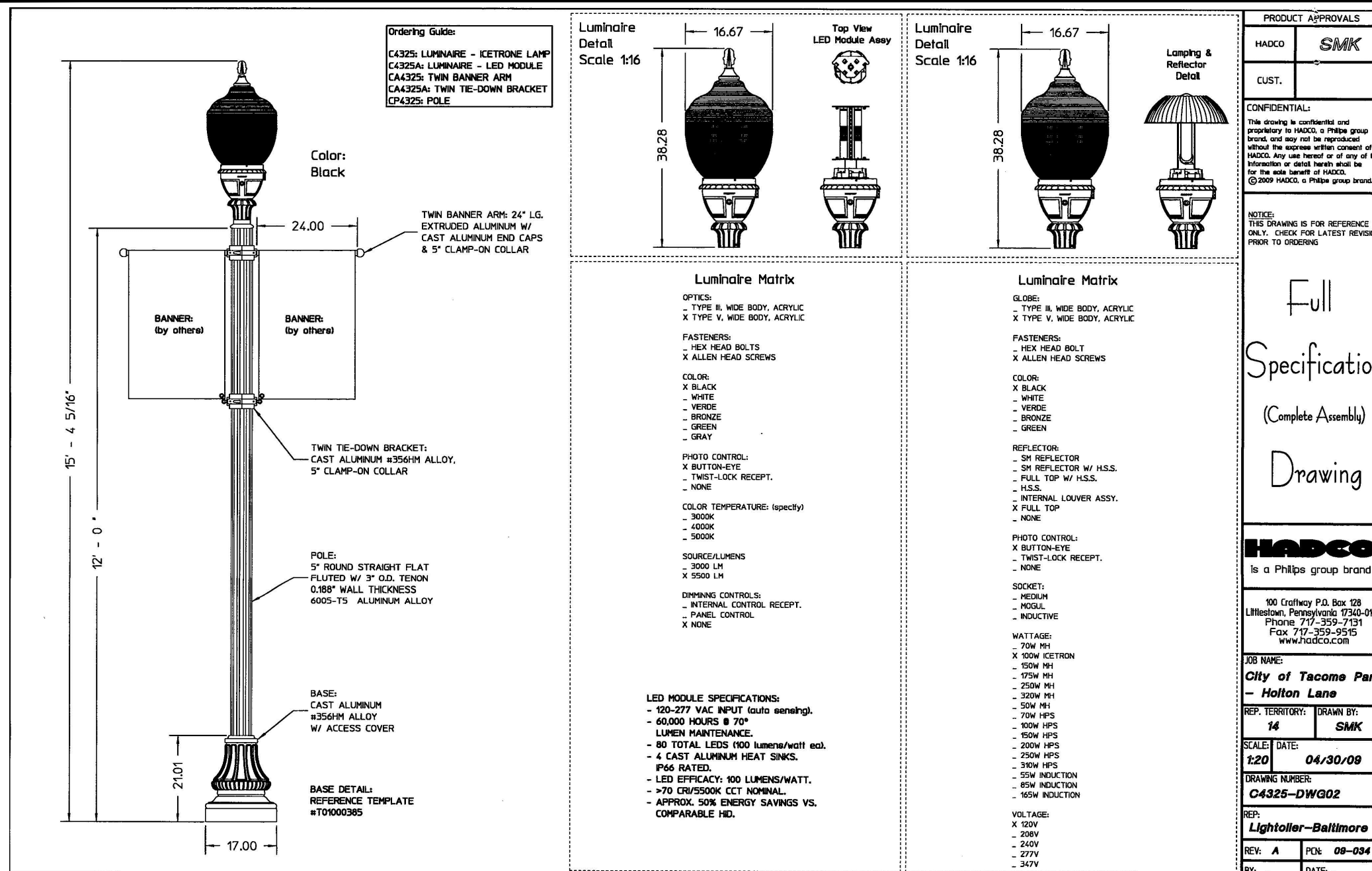
SHEET TITLE:
DETAILED SITE GRADING PLAN
 SHEET NUMBER:
C-012
 OF 15

- GENERAL NOTES
1. M-NCPPC STAFF MUST INSPECT ALL TREE-SAVE AREAS AND PROTECTION DEVICES BEFORE ANY LAND DISTURBANCE.
 2. MINOR MODIFICATIONS TO THE LIMITS OF DISTURBANCE SHOWN ON THE SITE PLAN WITHIN THE PUBLIC RIGHT-OF-WAY FOR UTILITY CONNECTIONS MAY BE DONE DURING THE REVIEW OF THE RIGHT-OF-WAY PERMIT DRAWINGS BY THE CITY OF TAKOMA PARK AND/OR THE STATE HIGHWAY ADMINISTRATION.



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PROFESSIONAL CERTIFICATION
 I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 39999, EXPIRATION DATE: 3/15/2017



PRODUCT APPROVALS
 HADCO
 Full Specification Drawing (Complete Assembly)
 HADCO is a Philips group brand
 City of Tacoma Park
 Lighter - Baltimore

Redefining value with outstanding performance
ECOFORM OUTDOOR SITE & AREA
 DESIGNLIGHTS CONSULTING

PHILIPS GARDCO, LED SITE & AREA LUMINAIRE, ECOFORM
 The Philips Gardco Ecoform combines economy with performance in an LED area luminaire. Capable of delivering up to 20,000 lumens or more in a compact, low profile LED luminaire, Ecoform offers a new level of compact value. Ecoform features an innovative retrofitted arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems allow for further energy savings.

Profile	Mounting	Optics	LED Array & LED Wavelength	LED Selection	Voltage	Finish	Options
ECF	Surface Standard	1 Single	5500K	CW 5300K	UNV	BRP	TL Tool-Less entry & other removal hardware
ECF-DIM	Surface with 3-1/2" Dia. Downlight	2 2889 180°	5500K	NW 4000K	MW	BLK	TP Terminal Block
ECF-APDF	Surface with Auto Profile Downlight	3 180°	5500K	NW 4000K	MW	WP	LPF Line Filtering for LEDs
ECF-HRSP	Surface with 3-1/2" Dia. Downlight	4 180°	5500K	NW 4000K	MW	NP	Optional Specified or Custom Color
ECF-APDF-HRSP	Surface with Auto Profile Downlight	4 180°	5500K	NW 4000K	MW	OC	Optional Specified or Custom Color
ECF-HRSP-1	Surface with 3-1/2" Dia. Downlight	4 180°	5500K	NW 4000K	MW	SC	Special Color
ECF-APDF-HRSP-1	Surface with Auto Profile Downlight	4 180°	5500K	NW 4000K	MW	PTF	Fluorescent Backlight
ECF	Surface with 3-1/2" Dia. Downlight	3.4.5	215LA	NW	UNV	BRP	SD Backboard (Not Included)

Taco Bell EXTERIOR SPECIFICATION
Decorative Lighting
 PROJECT: Taco Bell

Accuserv LIGHTING & EQUIPMENT
 3865 Produce Rd Suite 208 Louisville, KY 40218
 Phone: 502-961-0096 Fax: 502-961-0357 Web: www.accu-serv.com

Type T3

Item # 05247-05 / 05247-052

Classification: Up / Down (2) light w/ location wall mounted cylinder with top cap

Dimensions: Diameter - 6" Height - 18" Depth - 8 7/8"

Finish: Bronze

Lamp Type: (2) 18w PAR38 LED

Location: Exterior

Leadtime: TBD

LIGHT LEVELS ARE MAINTAINED FOOT-CANDLES, INITIAL LEVELS ARE SLIGHTLY HIGHER

Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
EXTENDED DRIVE-THRU LANE SURFACE	2.58	17.5	0.0	N.A.	N.A.
PARKING LOT SURFACE	4.66	10.4	2.1	2.22	4.95
PARKING LOT SURFACE	4.62	7.7	1.8	2.57	4.28

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	LIF	Lum. Watts	Description
(A)	1	(A)	SINGLE	20252	0.900	211	ECF-3-215LA-641A-NW-UNV-BRP / AVPL-SSS-25-4-11-DM19-DBZ
(B)	1	(B)	SINGLE	15269	0.900	211	ECF-3-215LA-641A-NW-UNV-BRP-IS / AVPL-SSS-25-4-11-DM19-DBZ
(C)	1	(C)	2 @ 90 DEGREES	19991	0.900	211	(2) ECF-4-215LA-641A-NW-UNV-BRP / AVPL-SSS-25-4-11-DM29-DBZ
(D)	1	(D)	4 @ 90 DEGREES	19880	0.900	211	(4) ECF-5-215LA-641A-NW-UNV-BRP / AVPL-SSS-25-4-11-DM49-DBZ
(S)	3	(S)	SINGLE	5285	0.900	91	DECORATIVE HADCO STREET LIGHT PROVIDED BY CITY
(T)	7	(T)	SINGLE	1188	0.900	36	ACCU 05247-051-052 @ 9.17' A.F.G.

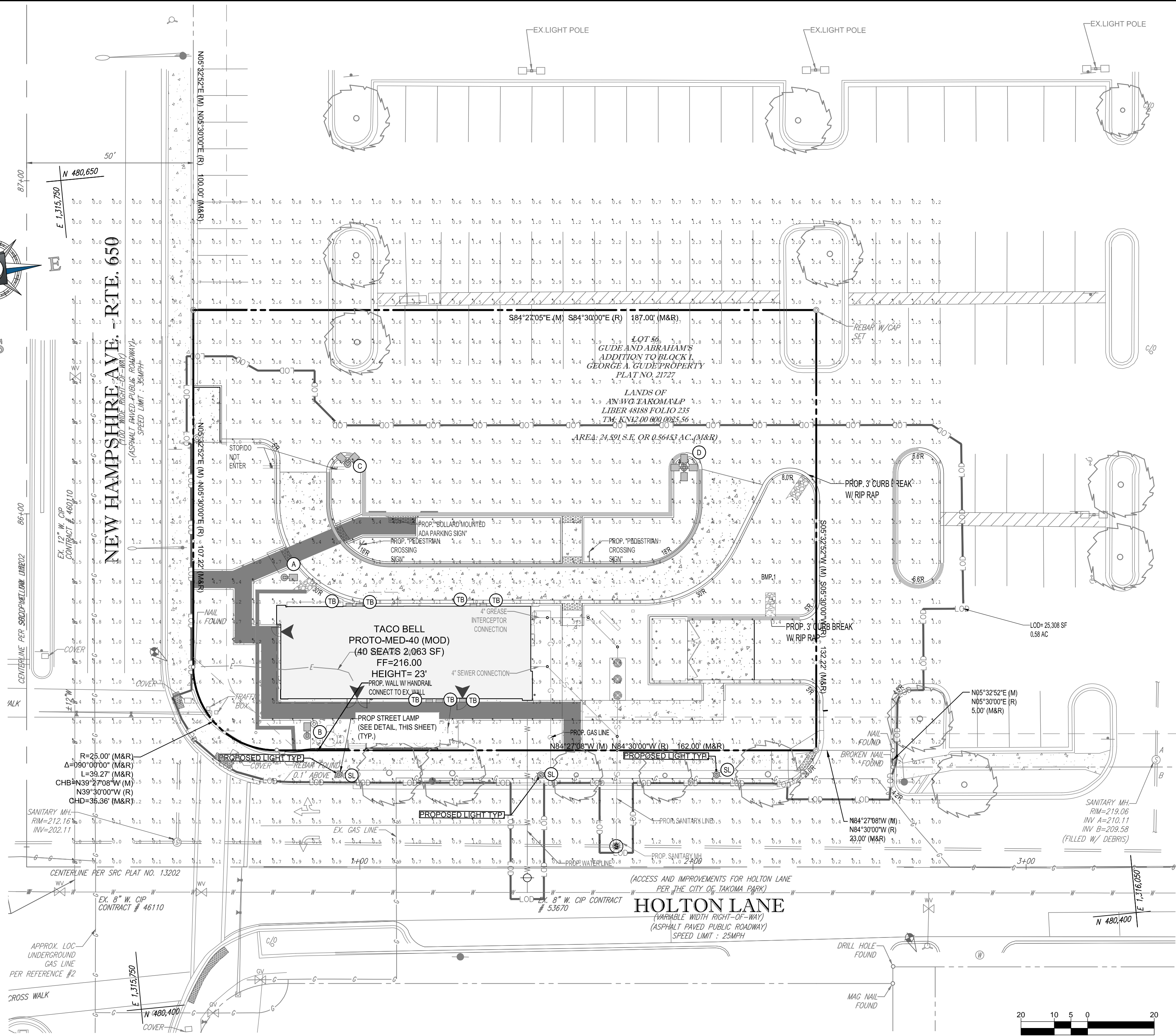
TACO BELL
 NEW HAMPSHIRE AVE. & HOLTON LN.
 TACOMA PARK, MD
 PREPARED BY: JOHN BUJAKE
 ACCUSERV LIGHTING & EQUIPMENT
 877-707-7378
 502-961-0357 FAX
 jbjake@accu-serv.com
 SEPTEMBER 28, 2015

GENERAL NOTE:
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR HAVE ANY CONCERNS WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND ALL FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.

PRODUCT SUBSTITUTION NOTE

IF ANY LIGHTING PRODUCT SUBSTITUTIONS ARE REQUESTED BY THE CONTRACTOR THE PROJECT CIVIL ENGINEER CONSULTANT MUST HAVE THE SUBSTITUTIONS APPROVED BY MONTGOMERY COUNTY PLANNING DEPARTMENT STAFF.

LIGHTING RESTRICTIONS: MINIMAL LIGHT TRESPASS ONTO THE RIGHT-OF-WAY
 SITE FIXTURES ARE 211W 4000K LED w/ FLAT LENSES
 FIXTURE B HAS BACKLIGHT CONTROL
 POLES ARE 25'-0" FOR AN OVERALL FIXTURE MOUNTING HEIGHT OF 27'-6" A.F.G.



Accuserv
 8865 Produce Road, Ste. 208 Louisville, KY 40228
 877-707-7378 TOLL FREE 502-961-0357 FAX
 www.accu-serv.com

March 7, 2016
 Via Electronic Mail

Montgomery County Planning Division
 Development Review Division
 8787 Georgia Avenue
 Silver Spring, MD 20910

Attention: Marco Puster

Dear Mr. Puster:

The lighting design for the proposed Taco Bell at 1300 Holton Lane (Building Permit No. 742502, Site Plan No. 820150150) meets the Maintained Illuminance criteria for "Enhanced Security" as published in ANSI document "Lighting for Parking Facilities" (RP-20-98) as developed and published by the Illuminating Engineering Society of North America (IESNA). Accordingly, the design meets or exceeds a minimum of 0.5 foot-candles and results in a maximum-to-minimum uniformity not exceeding 15:1. The design also meets the intent of applicable guidelines as outlined in the documents "Guideline for Security Lighting for People, Property and Public Spaces" (IESNA G-1-03) and the Lighting Handbook, 10th Edition, also published by the IESNA.

Should you have any questions or require additional information, please do not hesitate to contact me at 877-707-7378. Thank you.

Sincerely,
 John Bujake
 John Bujake
 Applications Engineer

LIGHTING NOTES:

- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.80 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDLES.
- THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
- WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- IT IS LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES AS INDICATED IN THE HIGH VOLTAGE PROXIMITY REGULATIONS N.E.C. 12-106.
- UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.
- DEFLECTORS MUST BE INSTALLED ON ALL UP-LIGHTING FIXTURES TO PREVENT EXCESS ILLUMINATION AND GLARE.

One Company, Endless Solutions
 www.accu-serv.com

BOHLER ENGINEERING
 16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
 Phone: (301) 809-4500
 Fax: (301) 809-4501
 MD@BohlerEng.com

REVISIONS

REV	DATE	COMMENT	BY



THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXISTING DESIGNERS OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL: 811 (WV 1-800-242-6848) (PA 1-800-242-1776) (DC 1-800-257-7777) (VA 1-800-552-7071) (MD 1-800-257-7777) (DE 1-800-282-8589)

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: MB14200601
 DRAWN BY: AL
 CHECKED BY: BLF
 DATE: 06/25/15
 SCALE: 1" = 20'
 CAD I.D.: LL1

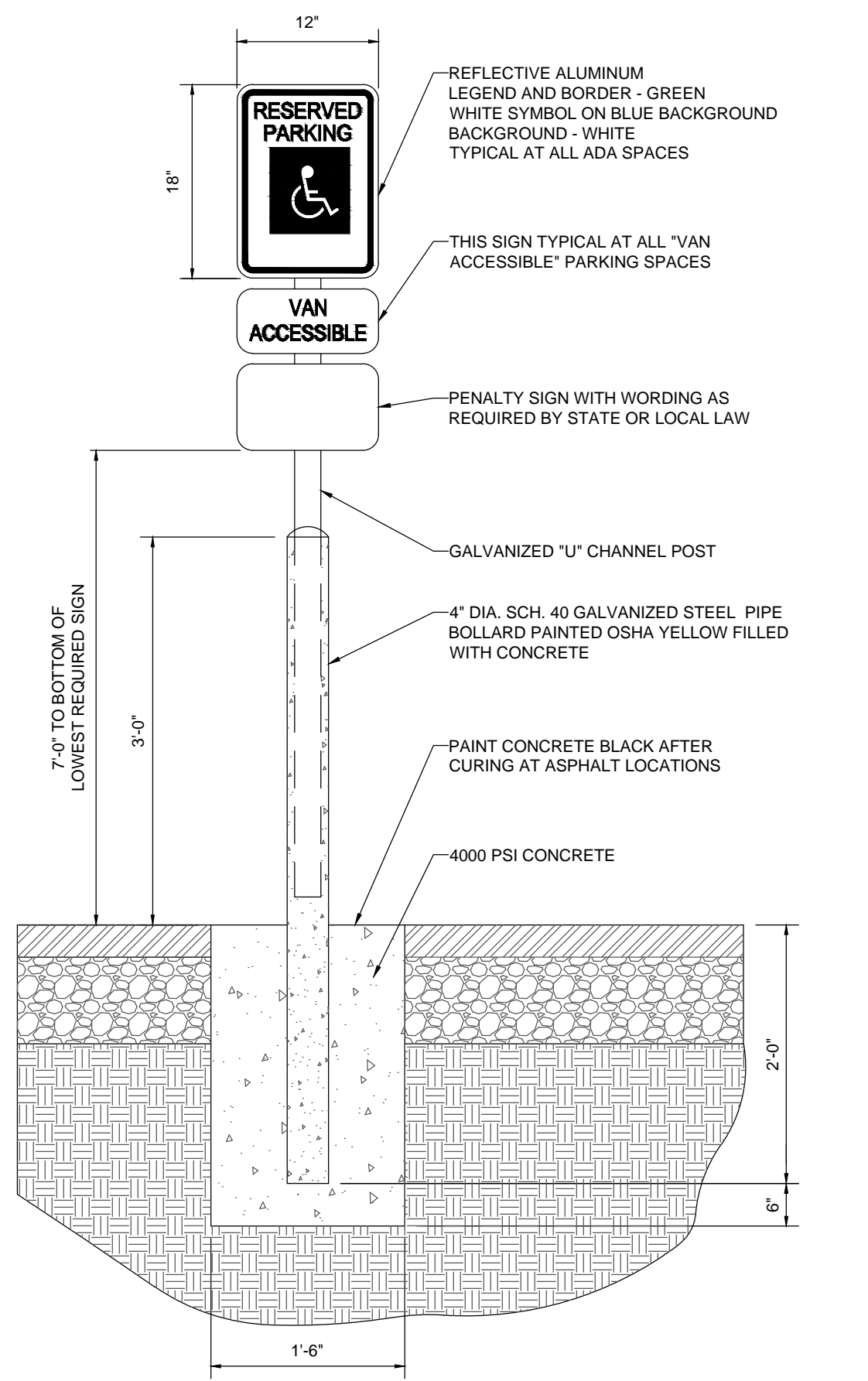
SITE PLAN #820150150
TACO BELL TAKOMA PARK
 FOR MUY
TACO BELL
 LOCATION OF SITE
 1300 HOLTON LANE
 TACOMA PARK, MD 20912
 MONTGOMERY COUNTY

BOHLER ENGINEERING
 16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
 Phone: (301) 809-4500
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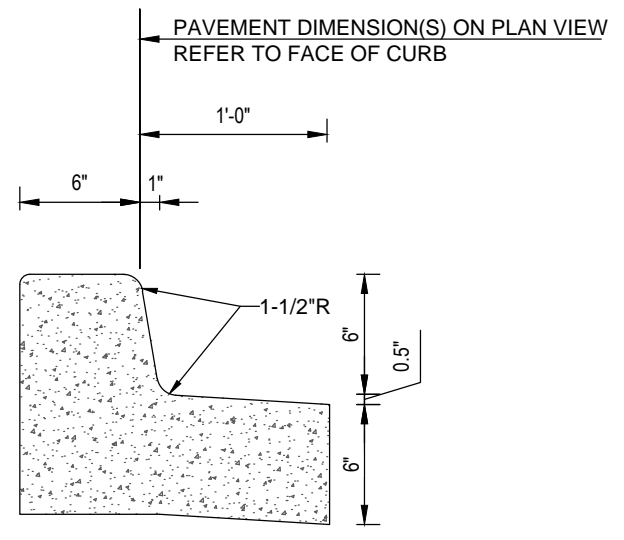
PROGRESS SET
 3/09/16
FOR BIDDING PURPOSES ONLY

SHEET TITLE:
LIGHTING PLAN
 SHEET NUMBER:
C-013
 OF 15

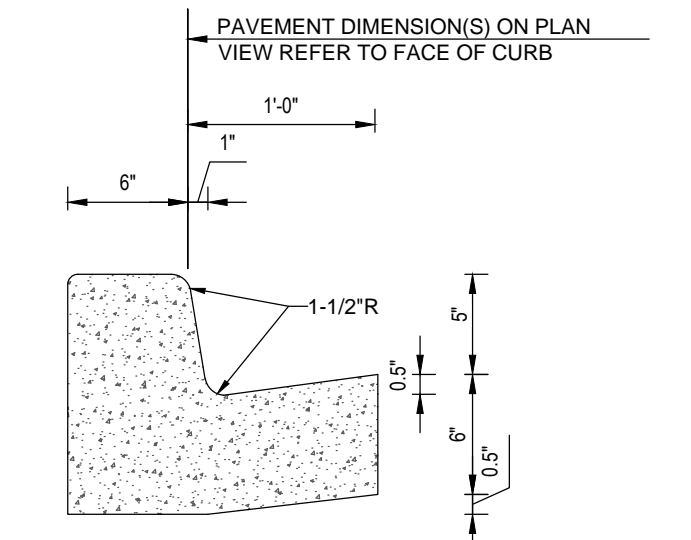
PROFESSIONAL CERTIFICATION
 I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3999, EXPIRATION DATE: 3/15/2017



NOTE:
ONE AT EACH ADA SPACE. WHERE ADA SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH SIDES



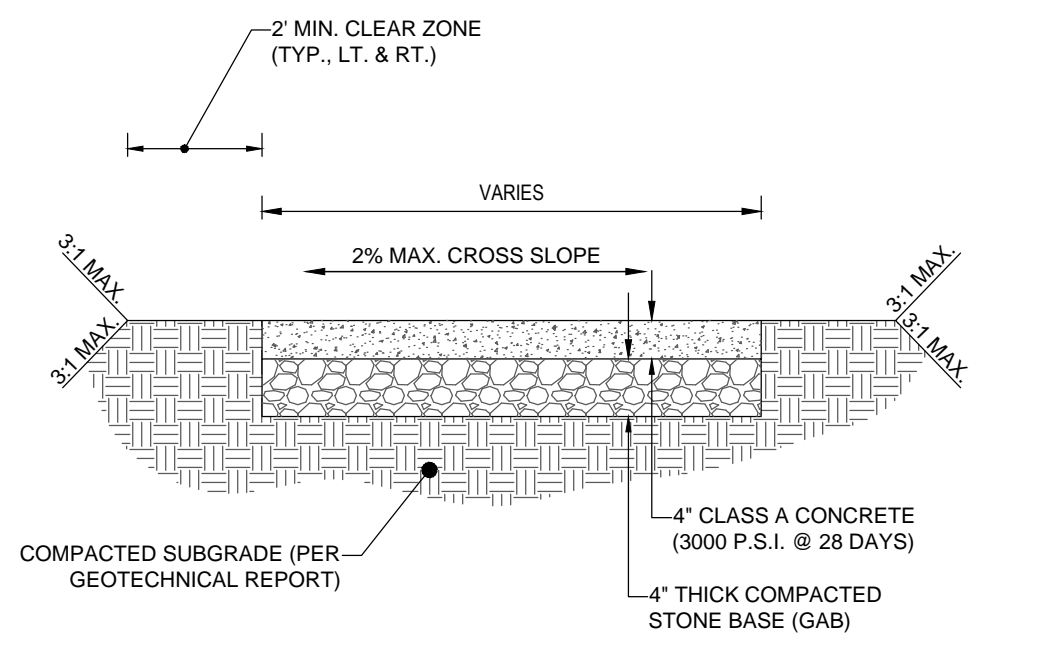
SPILL CURB & GUTTER



COLLECTOR CURB & GUTTER

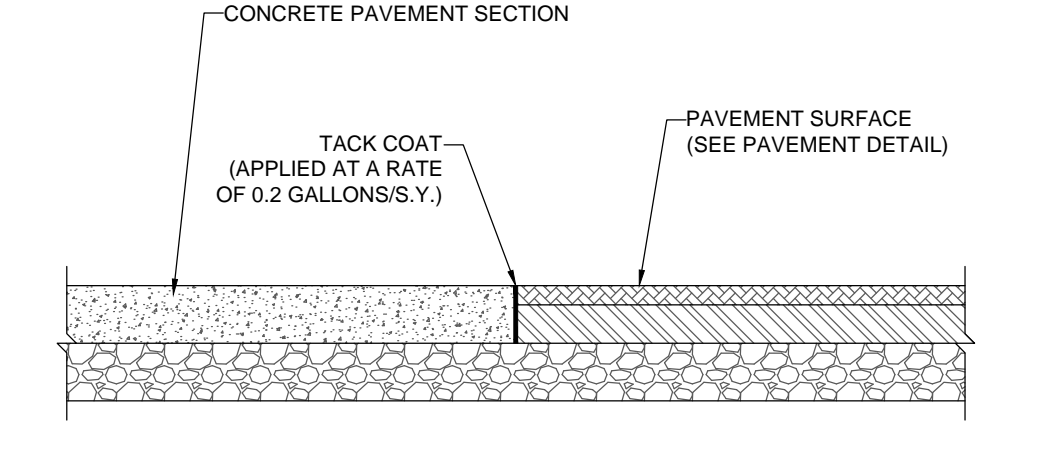
NOTES:
1. CONCRETE FOR CURBING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. @ 28 DAYS.
2. CONSTRUCTION STAKING FOR CURB INSTALLATION SHALL BE REFERENCED (CUT OR FILL) TO THE TOP OF CURB.
3. AT CONTRACTOR'S OPTION, THE GUTTER THICKNESS MAY BE INCREASED AT THE EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER CONTIGUOUS WITH BOTTOM OF ASPHALT PAVEMENT.
4. CONTRACTION JOINTS SHALL BE PLACED @ 10'-0" O.C. TOOLED 1/4" (x1/16") WIDE, 1" DEEP. EXPANSION JOINTS SHALL BE PLACED @ 40'-0" INTERVALS, MAXIMUM, AND ALL P.C.'S.

CONCRETE CURB & GUTTER DETAIL



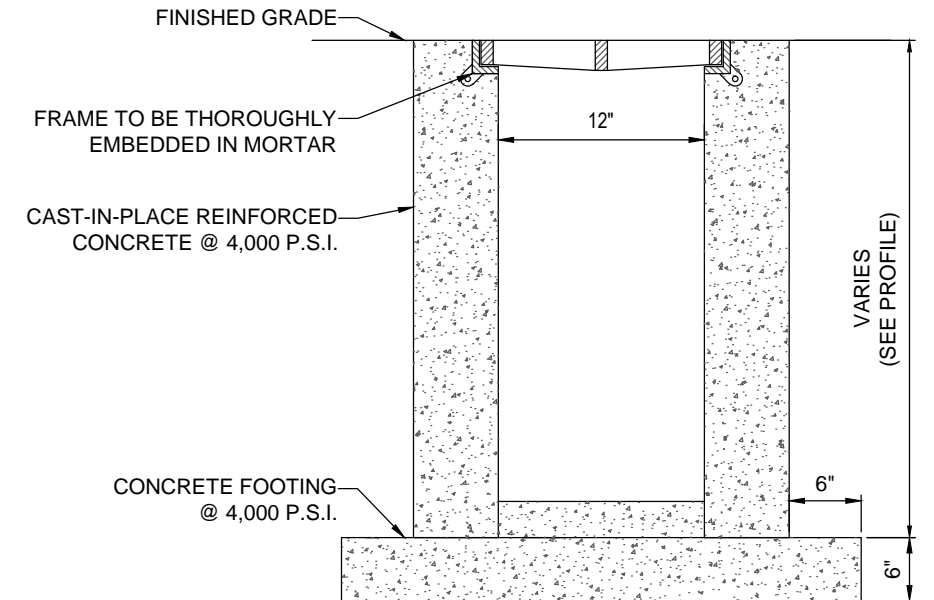
NOTE:
1. EXPANSION JOINTS 1/2" WIDE PREMOLDED BIT. MATERIAL SHALL BE INSTALLED AT 30' INTERVALS, CRACK CONTROL JOINTS TO BE SPACED AT INTERVALS EQUAL TO SIDEWALK WIDTH.

CONCRETE SIDEWALK DETAIL



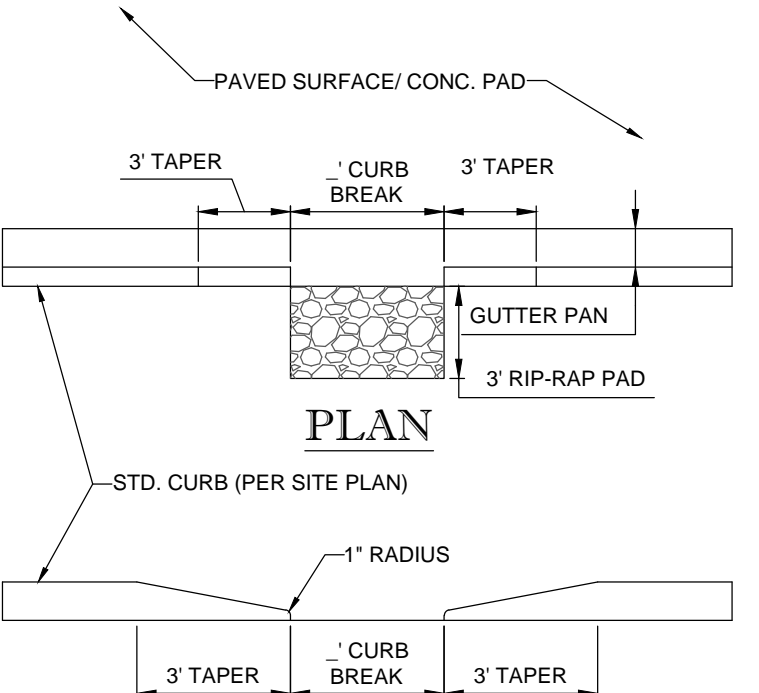
NOTE:
1. EXPANSION JOINTS 1/2" WIDE PREMOLDED BIT. MATERIAL SHALL BE INSTALLED AT 30' INTERVALS, CRACK CONTROL JOINTS TO BE SPACED AT INTERVALS EQUAL TO SIDEWALK WIDTH.

CONCRETE-TO-ASPHALT DETAIL



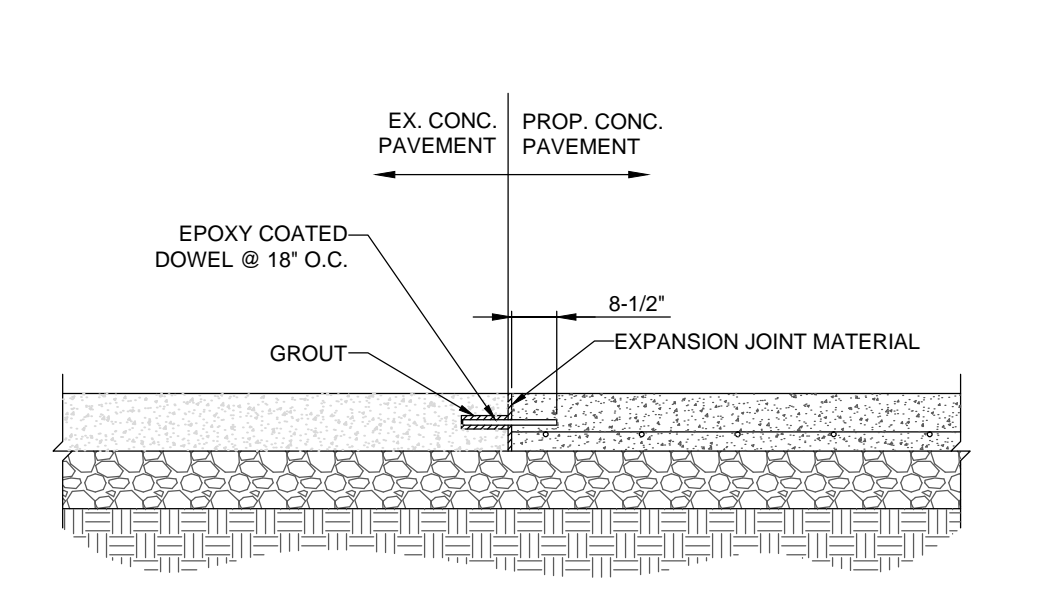
NOTES:
1. SCHEMATIC ONLY. FINAL DESIGN TO PROVIDE H-20 VEHICULAR LOADING.
2. SEE PLAN VIEW AND PROFILES FOR GRATE AND TRENCH INVERT ELEVATIONS.

TRENCH DRAIN DETAIL



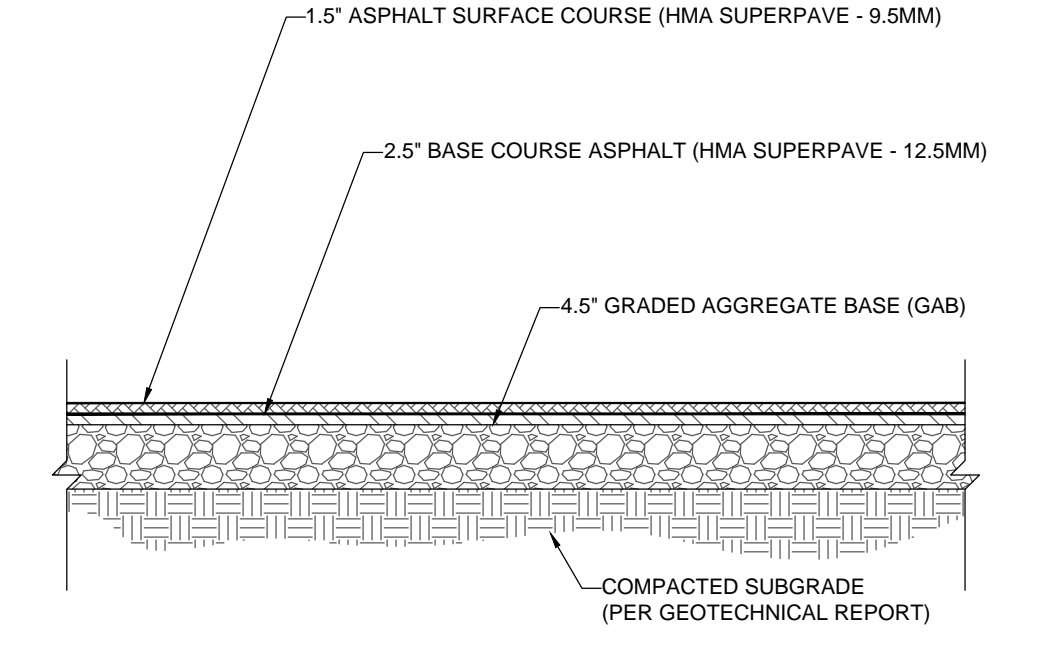
ELEVATION

CURB BREAK DETAIL



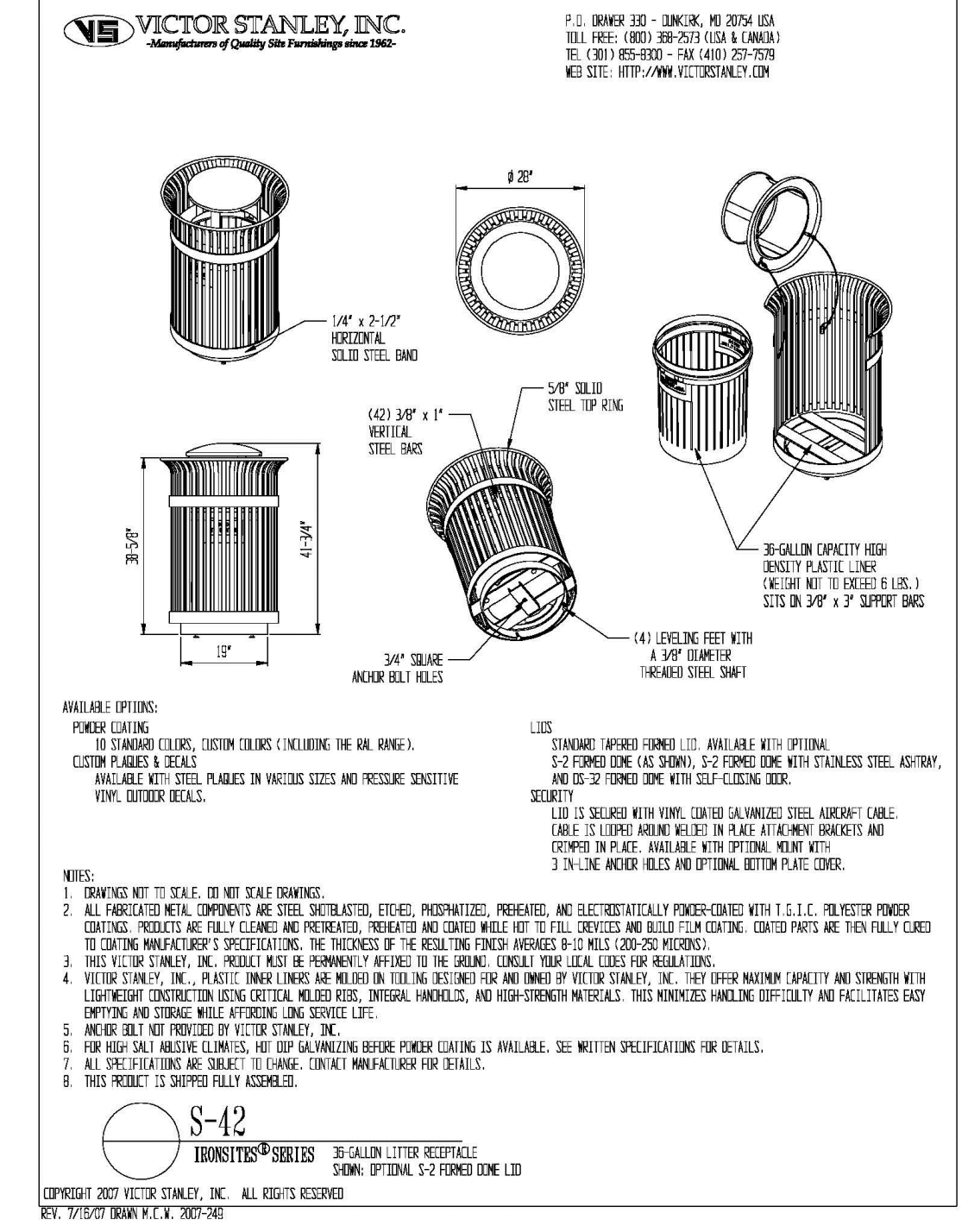
NOTE:
1. CONTRACTOR TO BLOW OUT DUST FROM DRILLED HOLES PRIOR TO APPLYING GROUT.

CONCRETE DOWELING DETAIL

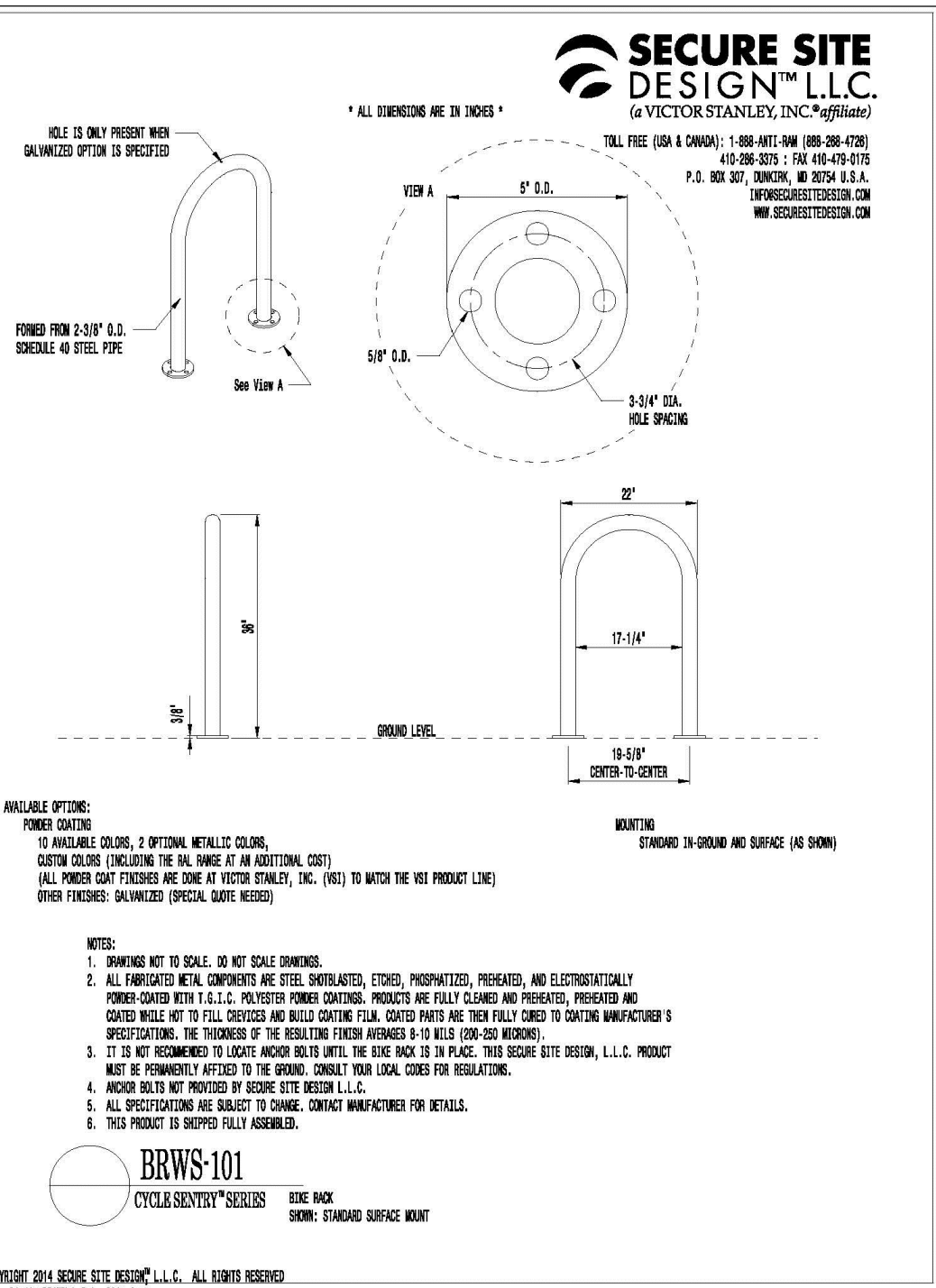


NOTE:
1. SECTION SHOWN IS BASED ON AN ANTICIPATED CBR OF 3 PER GEOTECHNICAL REPORT PREPARED BY ECS MIDATLANTIC, LLC, ENTITLED "TACO BELL AT LANGLEY PARK TAKOMA PARK, MONTGOMERY COUNTY, MARYLAND, DATED OCTOBER 2, 2014 (PROJECT #02-7394)". FINAL DESIGN TO BE PROVIDED ONCE FINAL CBR'S ARE AVAILABLE ON COMPACTED SUB-BASE.

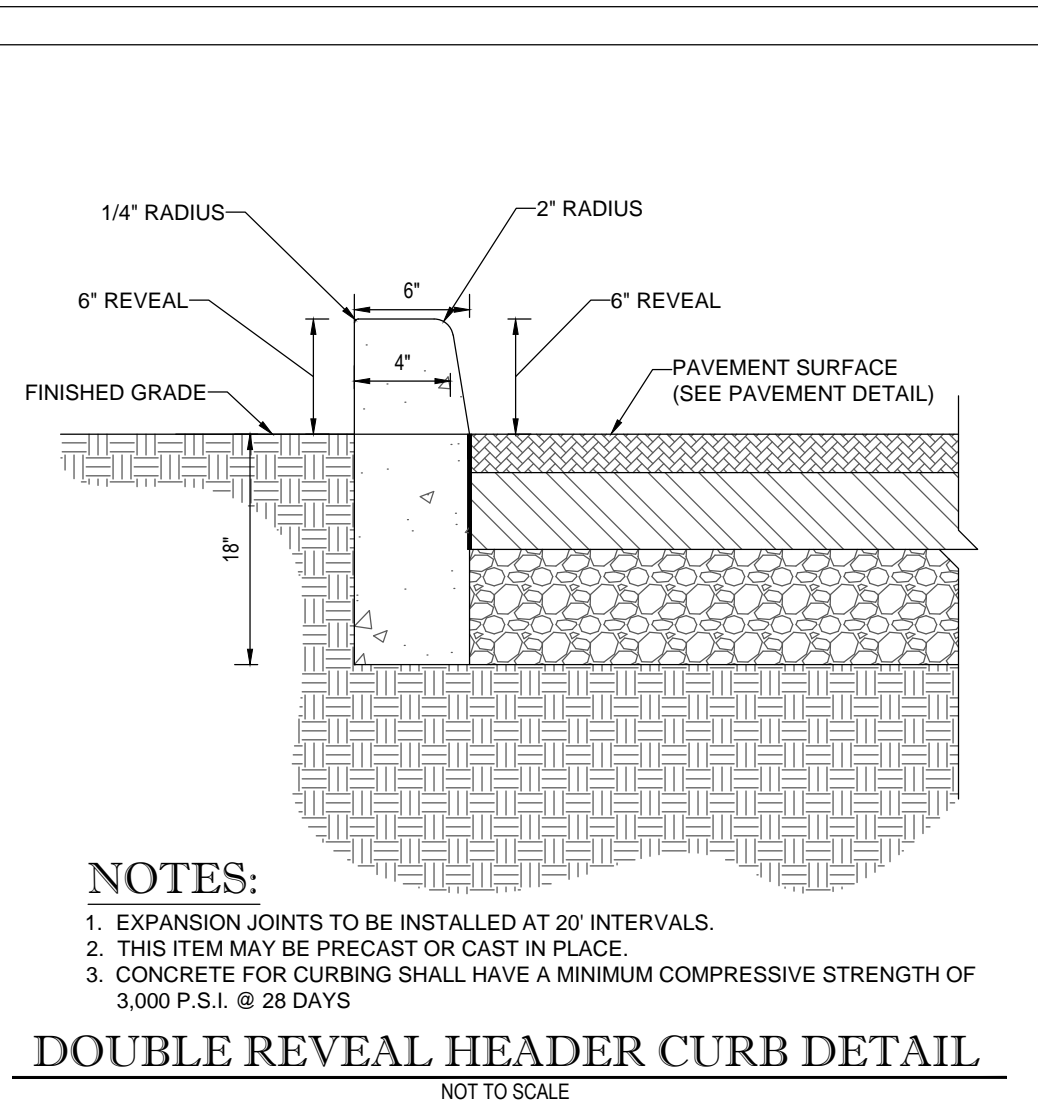
STANDARD DUTY ASPHALT PAVEMENT SECTION



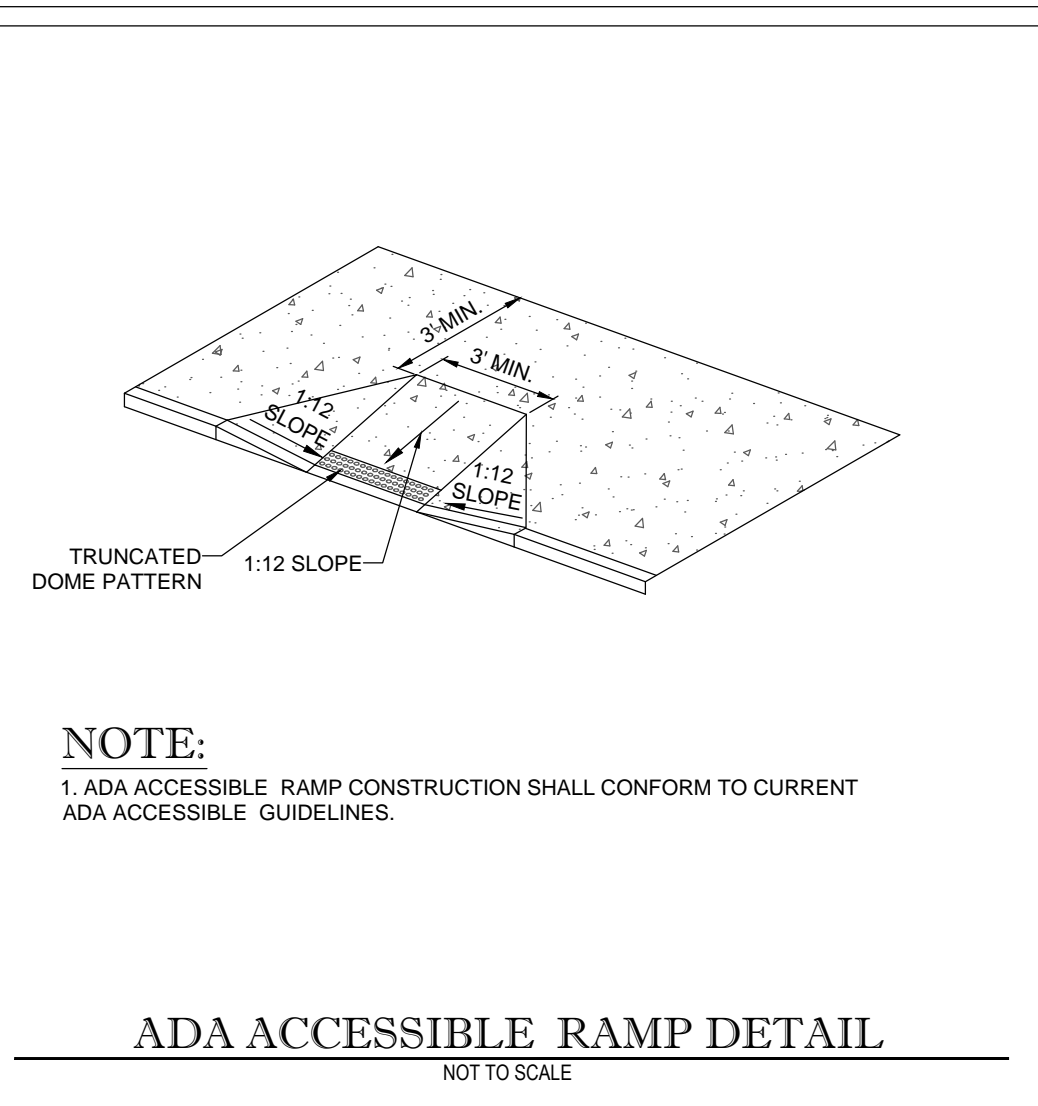
GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT. WORK SCOPE PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IMMEDIATELY PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.



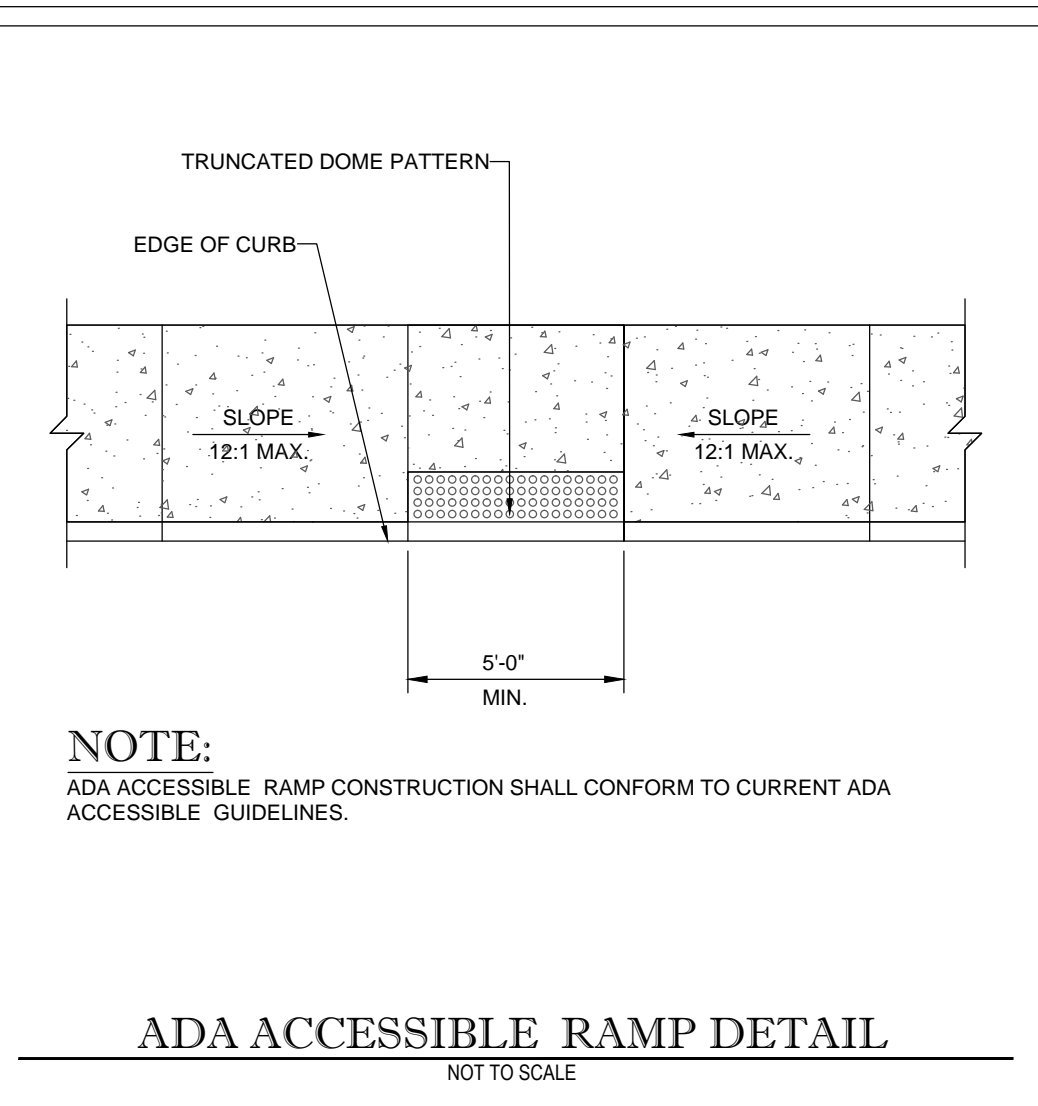
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DOUBLE REVEAL HEADER CURB DETAIL



ADA ACCESSIBLE RAMP DETAIL



ADA ACCESSIBLE RAMP DETAIL

SHOP DRAWING NOTE
BOHLER ENGINEERING WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. BOHLER ENGINEERING'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

BOHLER ENGINEERING
SITE VISIT AND CONSULTING SERVICES
LAND SURVEYING PROGRAM MANAGEMENT TRANSPORTATION SERVICES
SUSTAINABLE DESIGN PERMITTING SERVICES LANDSCAPE ARCHITECTURE
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NEWARK, NJ
BOSTON, MA
LEHIGH VALLEY, PA
SOUTH EASTERN, VA
RALEIGH, NC
BALTIMORE, MD
PHILADELPHIA, PA
NORTH CAROLINA
NORTH VIRGINIA
CENTRAL VIRGINIA
WASHINGTON, DC

REVISIONS

REV	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY OTHER PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL: 811 (VA 1-800-568-6849) (PA 1-800-245-1778) (DC 1-800-257-7777) (VA 1-800-562-7001) (MD 1-800-257-7777) (DE 1-800-282-6555)

PROJECT: MB14200601
DRAWN BY: AL
CHECKED BY: BLF
DATE: 06/25/15
SCALE: AS SHOWN
CAD I.D.: SD1

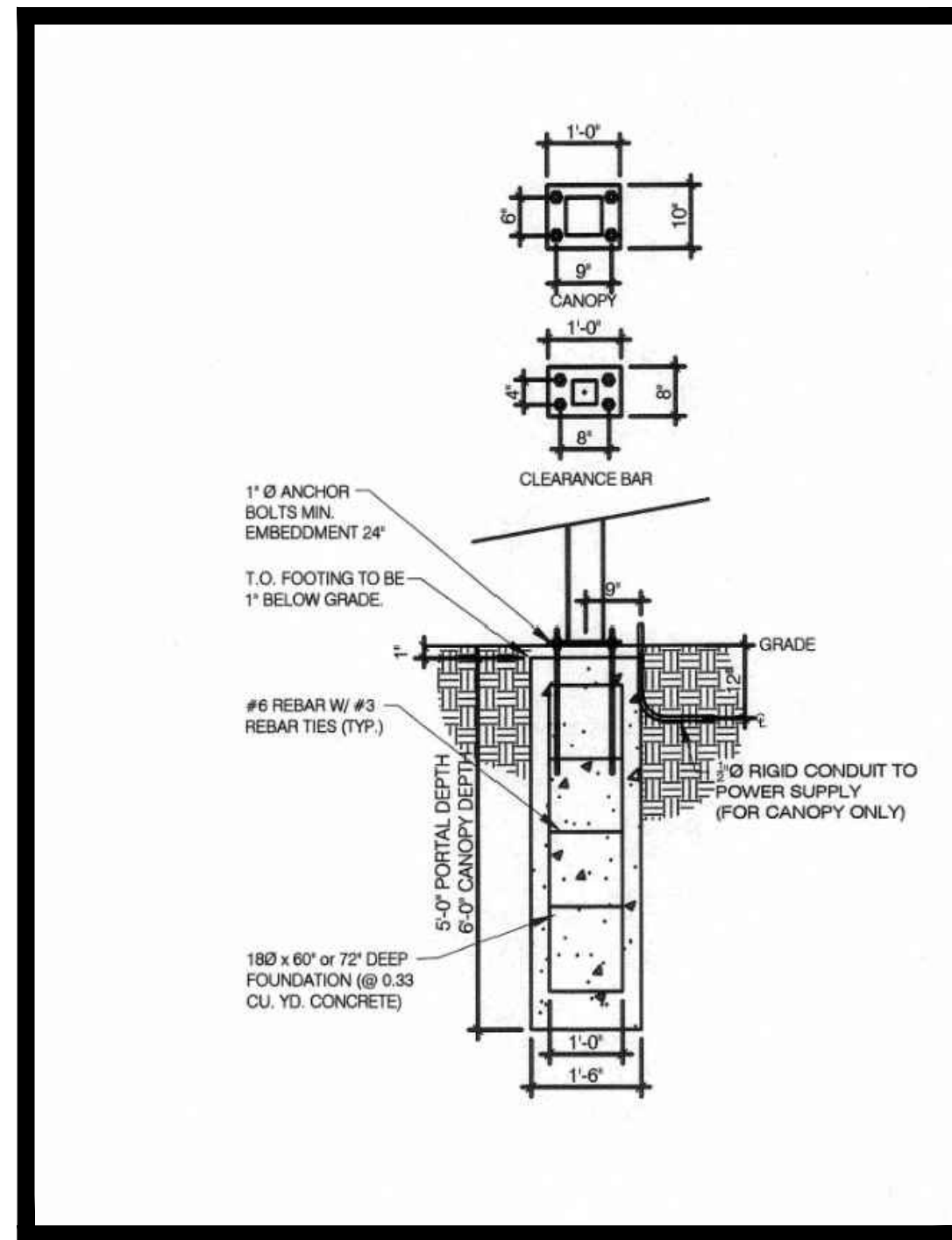
SITE PLAN
#820150150
TACO BELL TAKOMA PARK
FOR
MUY
TACO BELL
LOCATION OF SITE
1300 HOLTON LANE
TAKOMA PARK, MD 20912
MONTGOMERY COUNTY

BOHLER ENGINEERING
16701 MELFORD BLVD., SUITE 310
BOWIE, MARYLAND 20715
Phone: (301) 809-4500
Fax: (301) 809-4501
MD@BohlerEng.com

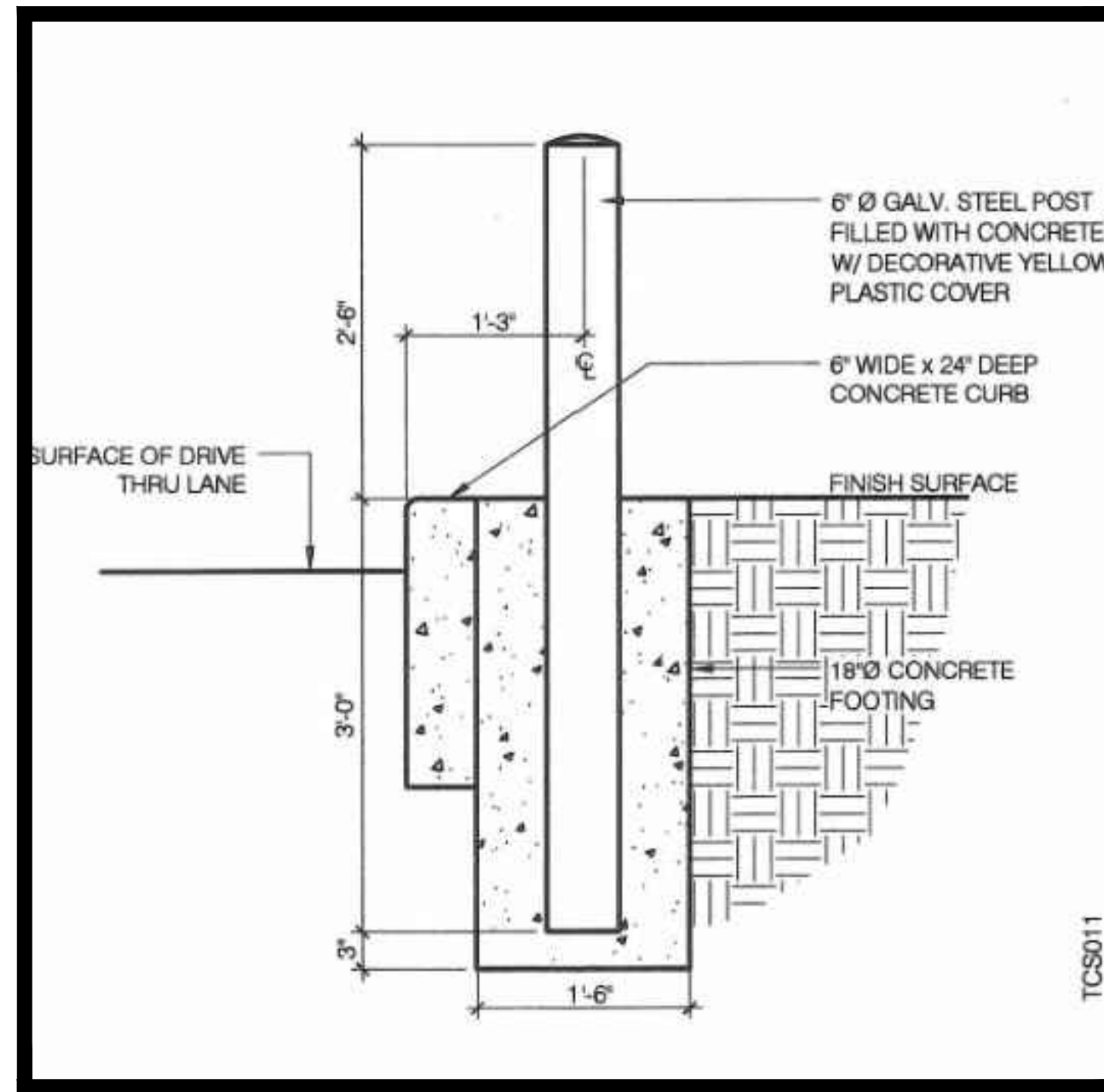
PROGRESS SET
3/09/16
FOR BIDDING PURPOSES ONLY

SHEET TITLE:
SITE DETAILS
SHEET NUMBER:
C-014
OF 15

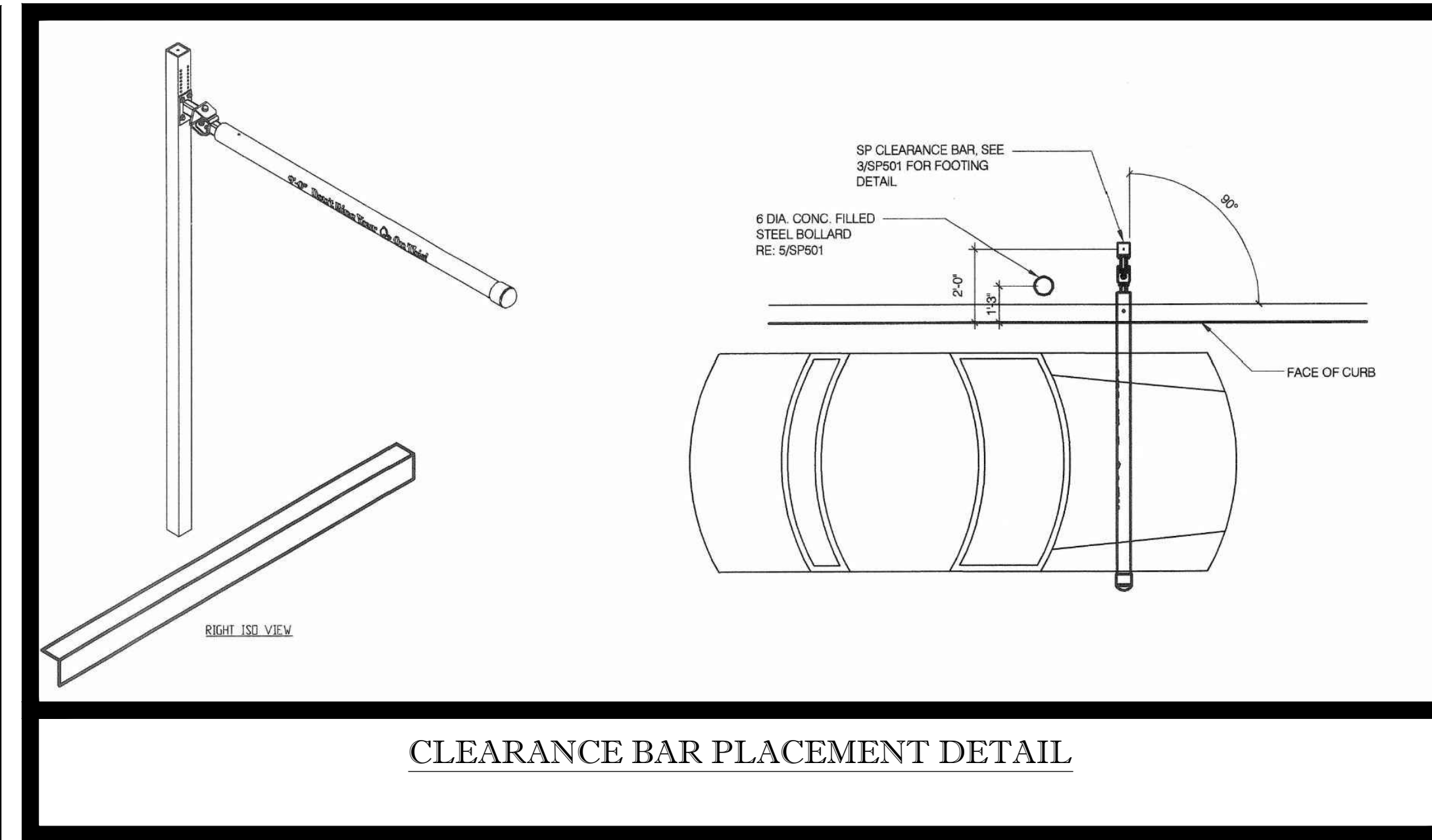
PROFESSIONAL CERTIFICATION
I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 39999, EXPIRATION DATE: 3/15/2017



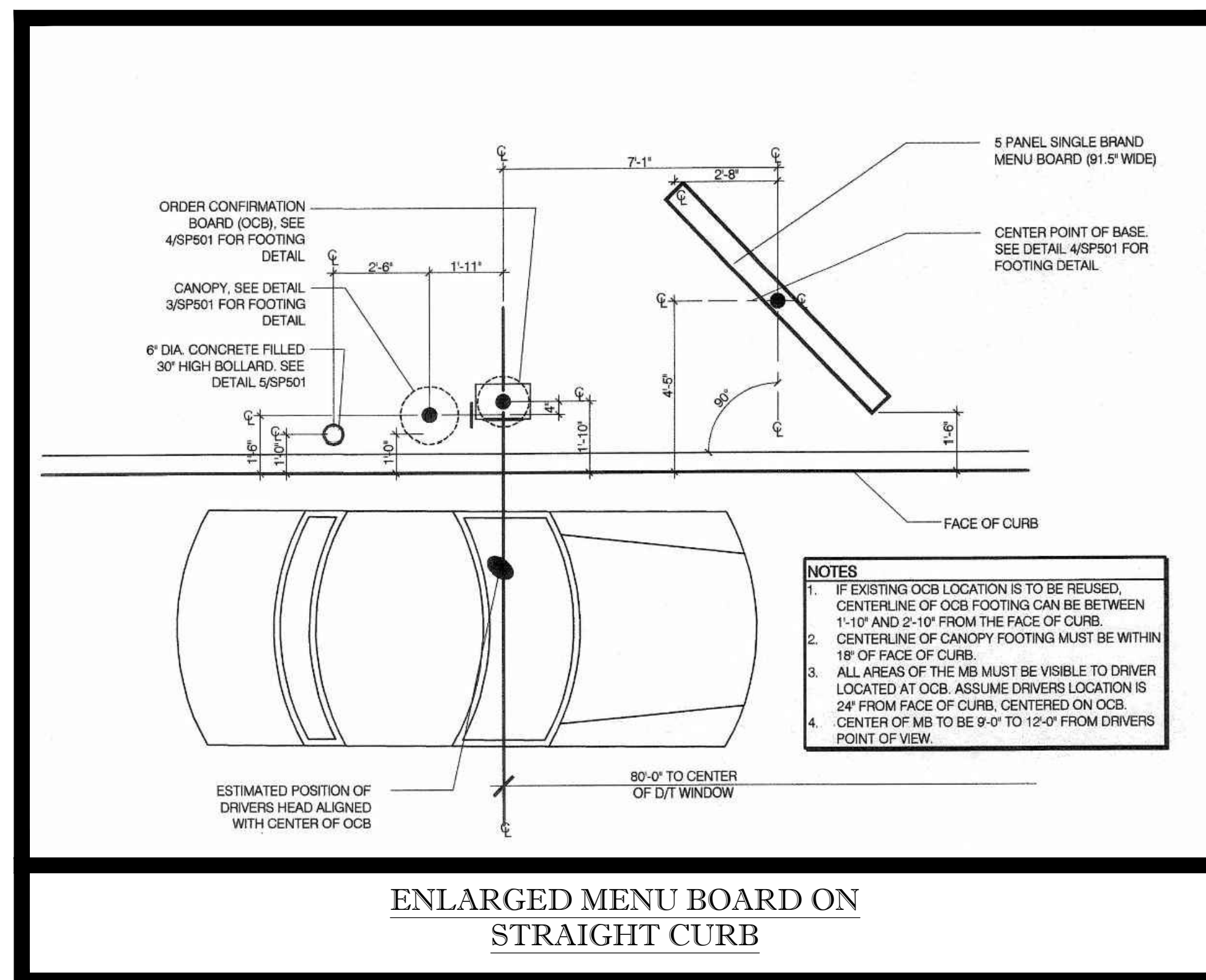
CLEARANCE BAR AND CANOPY FOOTINGS



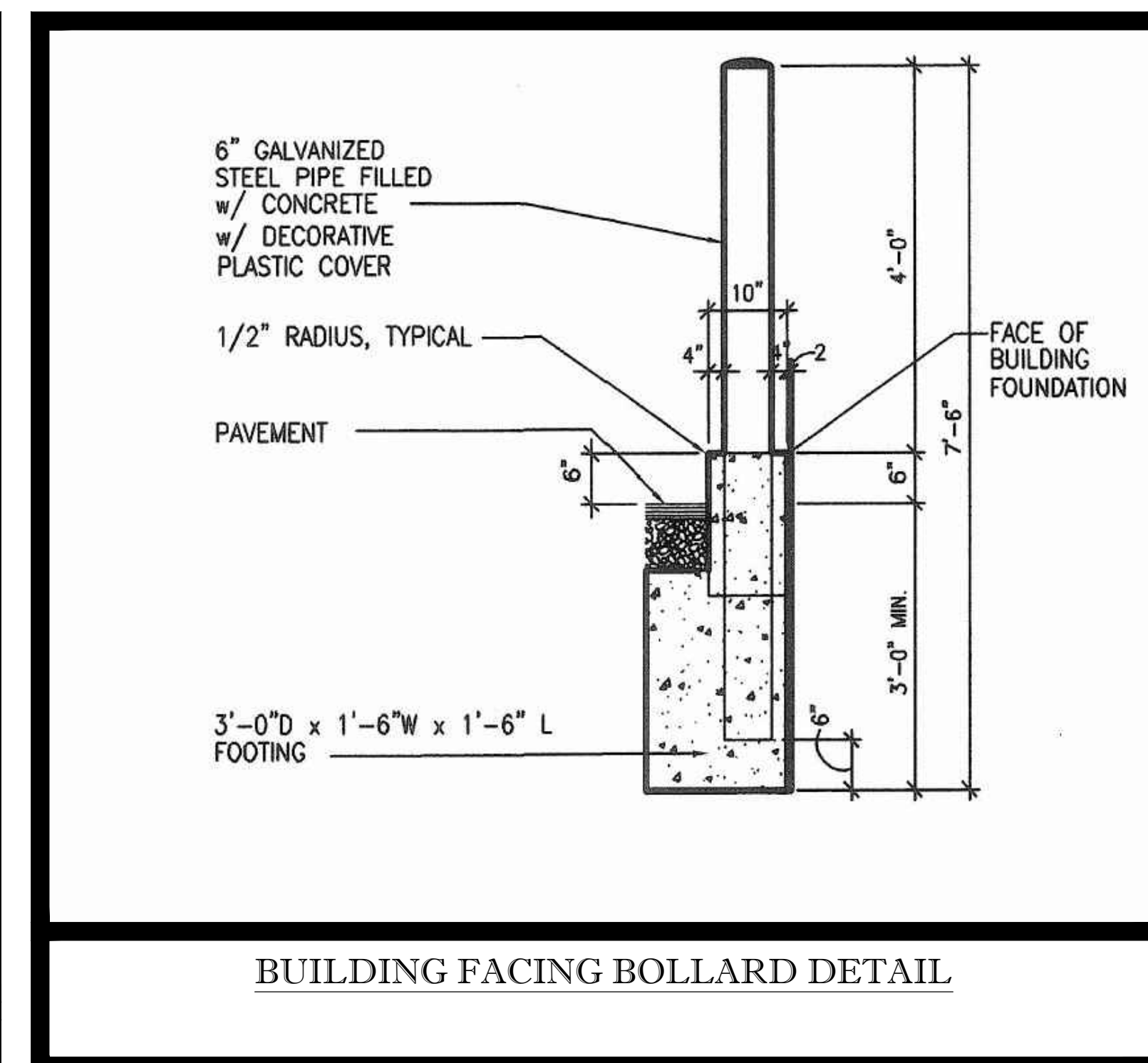
FREE STANDING BOLLARD DETAIL



CLEARANCE BAR PLACEMENT DETAIL



ENLARGED MENU BOARD ON STRAIGHT CURB



BUILDING FACING BOLLARD DETAIL

4 Sq. Ft. Round Top Directional

- Pantone Violet C- Match Spraylat L8-7917
- Pantone 109 Yellow- Match Spraylat L8-7836
- Pantone Process Magenta- Match Spraylat L8-7937

ELECTRICAL SPECIFICATIONS:
 LAMPS: (1) FTU9/50T 12 Sign White HO "U" lamp
 BALLASTS: (1) 51-601 Magnetek
 LINELOAD: 1.35 Amp
 (1) 15 Amp @ 120v circuit
 SERVICE: Slide face out
 WEIGHT: 50lbs. (crated)

UL SP

EVERBRITE ITEM # E00044B

BOHLER ENGINEERING

SITE PLAN AND CONSULTING ENGINEERING
 LAND SURVEYING PROGRAM MANAGEMENT TRANSPORTATION SERVICES
 SUSTAINABLE DESIGN PERMITTING SERVICES

WARREN, NJ
 BOSTON, MA
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LANSDOWNE ARCHITECTURE
 TRANSPORTATION SERVICES
 BALTIMORE, MD
 CENTRAL VIRGINIA
 NORTHERN VIRGINIA
 RALEIGH, NC

REVISIONS

REV	DATE	COMMENT	BY

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: MB14200601
 CHECKED BY: ALJ
 DATE: 12/08/15
 SCALE: AS SHOWN
 CAD I.D.: SD0

PROJECT: SITE PLAN #820150150 TACO BELL TAKOMA PARK FOR MUY TACO BELL

LOCATION OF SITE
 1300 HOLTON LANE
 TAKOMA PARK, MD 20912
 MONTGOMERY COUNTY

BOHLER ENGINEERING

16701 MELFORD BLVD., SUITE 310
 BOWIE, MARYLAND 20715
 Phone: (301) 809-4500
 Fax: (301) 809-4501
 MD@BohlerEng.com

PROGRESS SET 3/09/16 FOR BIDDING PURPOSES ONLY

SHEET TITLE: **SITE DETAILS**

SHEET NUMBER: **15 OF 15**

GENERAL NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND CODES.

PROFESSIONAL CERTIFICATION: I, MATTHEW K. JONES, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 39999, EXPIRATION DATE: 3/15/2017