

GENERAL NOTES

- TOPOGRAPHIC SURVEY WAS PROVIDED BY RBA DATED 4/10/02. THE BASE SURVEY IS GIVEN ON SHEET C-1 OF THIS DRAWING SET. ALL EXISTING SITE CONDITIONS SHALL BE DETERMINED BY EXAMINATION OF THE SURVEY SHEET.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS GIVEN ON THESE DRAWINGS AS WELL AS STANDARD STATE AND LOCAL SPECIFICATIONS WHICH EVER IS MORE RESTRICTIVE.
- DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT FROM THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE RBA GROUP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR PROCEDURES, UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND STANDARD CONSTRUCTION PRACTICES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES WHICH ARE TO REMAIN FREE FROM DAMAGE AND MAINTAIN UNINTERRUPTED SERVICE TO ALL USERS. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OR SUBCONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK ON THE PROJECT:

LOCAL UTILITY LOCATION COMPANY

WATER SERVICE AND SANITARY SEWER PROVIDER:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DEVELOPMENT ENGINEERING DIVISION
3450 COURTHOUSE DRIVE
ELLCOTT CITY, MARYLAND 21043
CONTACT: JEAN REED
(410) 313-3362

STORM DRAIN AND STORM WATER MANAGEMENT PROVIDER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENVIRONMENTAL SERVICES
STORM WATER MANAGEMENT DIVISION (410) 313-6444

ELECTRIC PROVIDER:
BALTIMORE GAS AND ELECTRIC
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
(410) 291-3776
CONTACT: SALLY HOOVER

TELEPHONE PROVIDER:
VERIZON MARYLAND, INC.
2510 RIVA RD. 6TH FLOOR
ANNAPOLIS, MD 21401
(410) 224-1670
(301) 261-8088 (FAX)
CONTACT: BRYAN SHANK

ROAD REGULATORY AUTHORITIES:

STATE: MARYLAND STATE HIGHWAY ADMINISTRATION
2323 WEST JOPPA ROAD
BROOKLANDVILLE, MARYLAND 21022
DESIGN: (410) 841-1008
FLOODPLAIN: (410) 545-8405
TRAFFIC DIVISION (REPORTS): (410) 841-1003

COUNTY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
TRAFFIC ENGINEERING DIVISION
3450 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
(410) 313-2430
CONTACT: GEORGE FRANGOS

- CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. HE SHALL VERIFY SIZE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND TEST PIT AT PROPOSED TIE IN LOCATIONS. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER WELL IN ADVANCE OF CONSTRUCTION START. START OF CONSTRUCTION BY THE CONTRACTOR SHALL CONSTITUTE FULL ACCEPTANCE OF ALL SITE CONDITIONS BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR CONSTRUCTION PRIOR TO BEGINNING WORK.
- ALL UTILITIES ARE TO REMAIN UNLESS DESIGNATED TO BE REMOVED AND ALL APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE.
- PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL STAKE OUT AND VERIFY LOCATIONS OF ALL IMPROVEMENTS AND UTILITY TIE IN LOCATIONS.
- SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER. IN THE EVENT OF A DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS, THE FIGURED DIMENSIONS SHALL BE HELD.
- CONTRACTOR SHALL INCLUDE DEMOLITION AND REMOVAL OF CURBING, SIDEWALK, AND PARKING AREAS WITHIN THE WORK AREA AS WELL AS REMOVAL AND CAPPING OF ANY UNDERGROUND UTILITIES SHOWN TO BE REMOVED.
- THE CONTRACTOR SHALL ENSURE THAT CURRENT AS-BUILT RECORDS ARE MAINTAINED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, CERTIFIED (i.e. P.E. STAMPED) AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER.
- CONTRACTOR SHALL MAINTAIN ALL SEDIMENT CONTROL DEVICES WITHIN THE LIMITS OF THE SITE DURING CONSTRUCTION OF THE SITE IMPROVEMENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AS MAY BE NECESSARY DURING CONSTRUCTION AND/OR BY GOVERNING AGENCIES.
- THE SUBJECT PROPERTY IS ZONED NT PER HOWARD COUNTY ZONING MAP #36 ADOPTED OCTOBER 18, 1993.
- THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE DOBBIN COMMERCIAL CENTER DEVELOPMENT PREDATES THE FOREST CONSERVATION REGULATIONS AND HAD PRELIMINARY PLAN APPROVAL PRIOR TO 12/31/92, PER SECTION 16.1202(b)(1)(ii) OF THE SUBDIVISION REGULATIONS.
- ALL ADJACENT PROPERTIES ARE NON-RESIDENTIAL USES.
- ALL TRAFFIC SIGN AND HANDICAP SIGN POSTS TO BE PAINTED BLACK.
- ALL LIGHT POLE BASES TO BE RECTANGULAR.
- THERE ARE NO STREAMS, WETLANDS, OR FLOOD PLAINS LOCATED ON THIS SITE. STEEP SLOPES EXIST ON BOTH THE NORTHEAST AND SOUTHEAST CORNERS OF THE SITE.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$600 FOR 1 SHADE TREE, 2 EVERGREEN TREES AND 0 SHRUBS.
- OUTDOOR LIGHTING COMPLIES WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- SCREENING AND LANDSCAPING WILL BE PROVIDED IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL.
- ALL SIGNS WILL COMPLY WITH THE HOWARD COUNTY ZONING REGULATIONS.
- THIS SITE DOES NOT LIE WITHIN A FLOODPLAIN.
- FOR SITE LIGHTING INFORMATION, SEE SHEET C-7.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- FINAL DEVELOPMENT CRITERIA AND SETBACK INFORMATION IS FOUND IN F.D.P. 132-A-III.

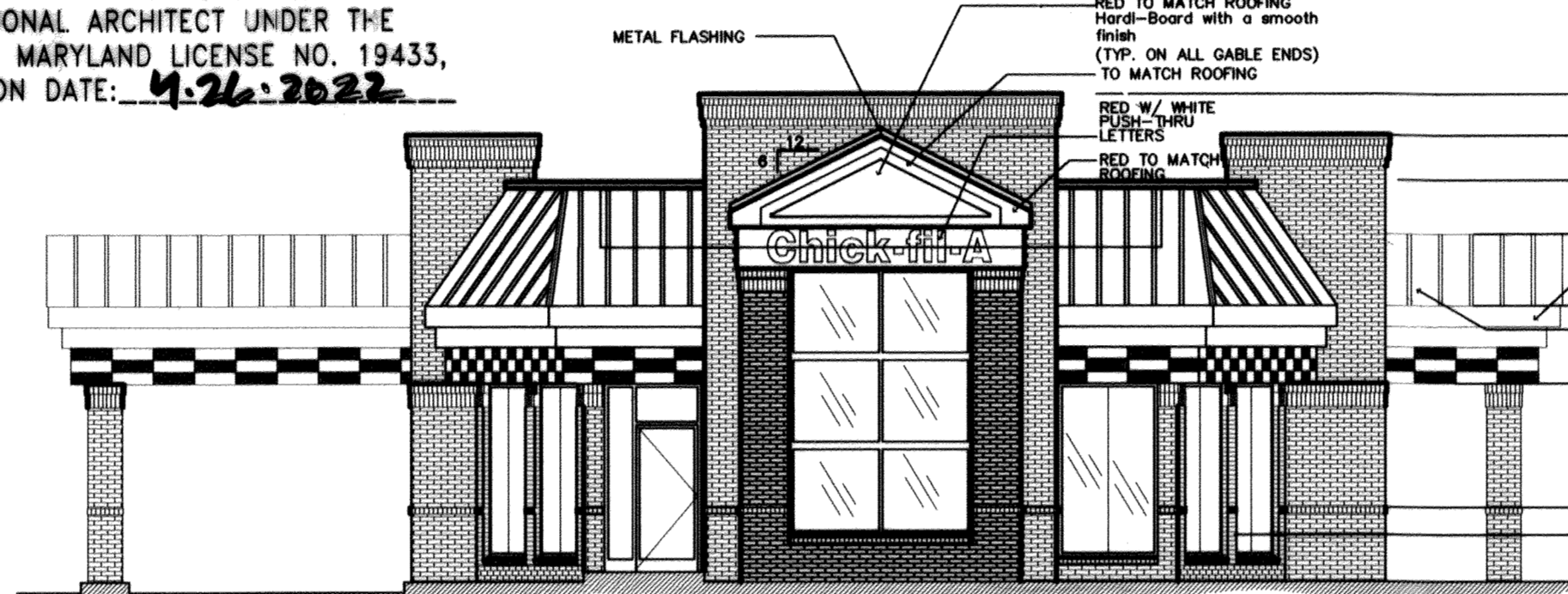


For Revision #7 ONLY.

I, Robert W. Nelson,
HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME
AND THAT I AM DULY LICENSED
PROFESSIONAL ARCHITECT UNDER THE
LAWS OF MARYLAND LICENSE NO. 19433,
EXPIRATION DATE: 4-26-2023.



DOBBIN ROAD, COMMERCIAL CENTER
HOWARD COUNTY, MARYLAND



1 ELEVATION

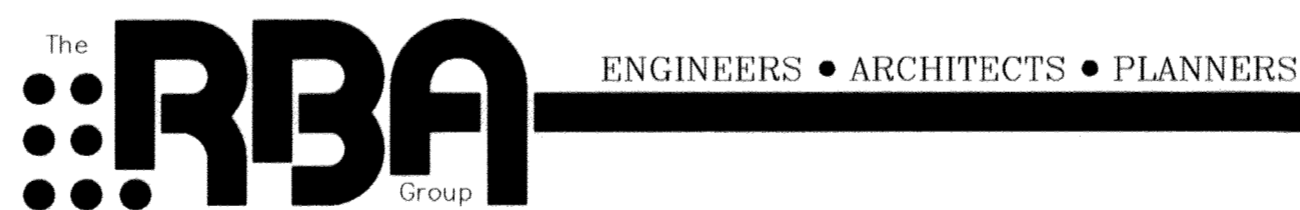
SITE DEVELOPMENT PLANS

PREPARED FOR :

CHICK-FIL-A RESTAURANT, INC.

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349-2998
(404) 765-8000

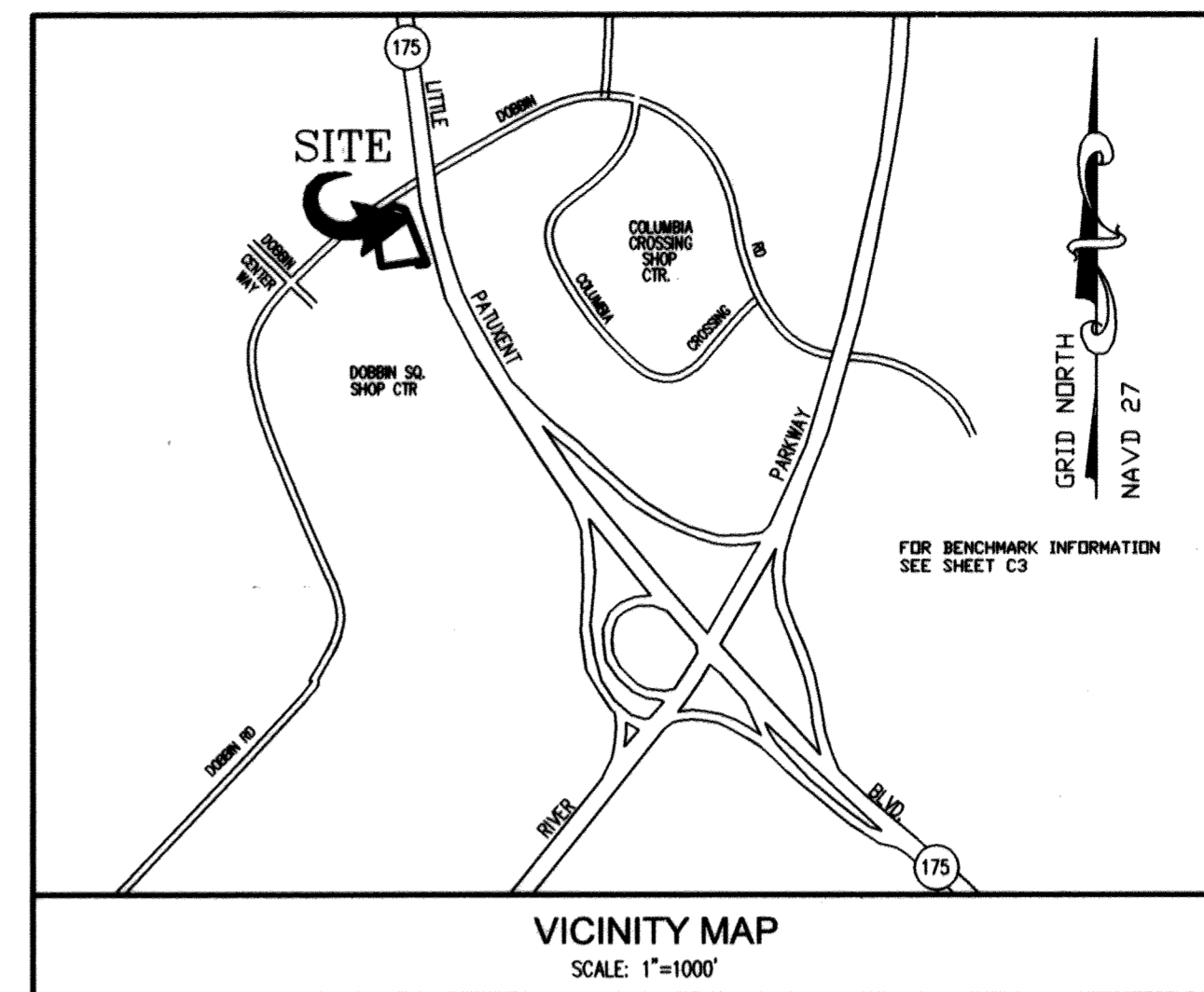
PREPARED BY :



7164 COLUMBIA GATEWAY DRIVE
SUITE 205
COLUMBIA, MARYLAND 21046
(410) 312-0966

OWNER:
CHICK-FIL-A, INC.
5200 BUFFINGTON RD.
ATLANTA, GEORGIA 30349

48 Hours
Before You Dig
Call
"MISS UTILITY"
Service Protection Center
MEMBER
ONE CALL SYSTEMS INTERNATIONAL
CALL TOLL FREE
1-800-257-7777



I CERTIFY ALL REVISIONS DATED 9/26/03, CONTAINED
WITHIN THESE APPROVED SITE DEVELOPMENT PLANS AS
APPROVED BY HOWARD COUNTY ON 10/16/03, WERE IMPLEMENTED
UNDER MY SUPERVISION. 8/31/04

ROBERT W. NELSON

I, MICHAEL J. GESSELL, 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. 44097 EXPIRATION DATE: 6/19/17
FOR REVISION # ONLY
(AS-BUILT INFORMATION)



PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44097

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: May 1, 2003

LEGEND

- ADJACENT LOT LINE
- EXISTING CURB & GUTTER
- EASEMENT LINE
- PROPERTY LINE
- EXISTING LIGHT/UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER LINE
- EXISTING STORM DRAIN LINE
- EXISTING SANITARY LINE
- EXISTING GAS LINE
- PROPOSED BOLLARD
- PROPOSED 4" PVC IRRIGATION SLEEVE
- EXISTING CONTOUR
- EXISTING TREE
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- CURB INLET PROTECTION
- STANDARD INLET PROTECTION
- CONCRETE RAMP
- FLUSH TO PAVEMENT/CONCRETE
- PROPOSED GREASE TRAP
- PROPOSED ELECTRIC METER
- PROPOSED GAS METER
- PROPOSED STORM DRAIN
- PROPOSED SANITARY SEWER
- PROPOSED WATER
- PROPOSED CURB & GUTTER
- PROPOSED CONCRETE PAD
- PROPOSED PERIMETER SITE LIGHTING
- PROPOSED TRANSFORMER
- PROPOSED EX SERIES 50 FOOT POLE PACKAGE, BY APPROVED VENDORS; THE FLAG COMPANY OR ATLAS FLAGS
- PROPOSED BUILDING
- TRAVERSE/ BENCHMARK
- BENCHMARK
- PROPOSED PARKING STRIPING, STALLS, & NUMBERING
- HANDICAPPED PARKING SYMBOL
- BUILDING SIGN LOCATION (APPROX.)
- STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM

SITE ANALYSIS

- AREA OF PARCEL: 65,601 SQ. FT. (1.5 AC.)
- ZONING: NEW TOWN EMPLOYMENT CENTER COMMERCIAL
- EXISTING USE: RESTAURANT
- PROPOSED USE: RESTAURANT
- BUILDING DATA (7.6% COVERAGE)
 - A. GROSS SQUARE FOOTAGE (1-STORY): 5,032 SQ. FT.
 - B. DINING TABLE SEATS - TOTAL: 138
- PARKING DATA
 - A. 9' x 18' SPACES: 51
 - B. ACCESSIBLE SPACES: 3
 - C. SPACES REQUIRED: 2b
 - D. TOTAL PARKING SPACES PROVIDED: 54 (INCLUDES 3 HANDICAPPED ACCESSIBLE SPACES)
- IMPERVIOUS AREA: 5,032 SQ. FT.
 - A. BUILDING: 5,032 SQ. FT.
 - B. CONCRETE & DRIVE THRU: 3,356.42
 - C. PAVEMENT: 21,352.84
 - D. DUMPSTER AREA: 968.82
 - E. SIDEWALKS: 1,996.03
 - F. TOTAL COVERAGE: 32,706.11
 - G. % COVERAGE: 49.9%
- DEED REFERENCE: LIBER/FOLIO 307
PLAT REFERENCE: PLAT # 5307
- ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
SDP-83-224C, FDP-132-A-III, F-81-36c, F-82-35, F-83-30, F-04-154
- TAX MAP: 36, GRID: 18, PARCEL: 396
- AREA OF DISTURBANCE: 8,789 S.F. OR 0.20 AC. (REVISION 5)

*THIS NUMBER OF PARKING SPACES WAS FOUND ACCEPTABLE BY HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING IN A LETTER DATED JANUARY 10, 2003.

ABBREVIATIONS

- RCF = REINFORCED CONCRETE PIPE
- PVC = POLYVINYL CHLORIDE PIPE
- S.F. = SQUARE FEET
- G.S.F. = GROSS SQUARE FEET
- C.O. = GENERAL CLEAN OUT

The **RBA** Group, Inc. ENGINEERS • ARCHITECTS • PLANNERS
7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
DRAWN BY: PS
DESIGNED BY: EM
CHECKED BY: JR

ADDRESS CHART	
LOT/PARCEL	STREET ADDRESS
P. S-1	6375 DOBBIN ROAD

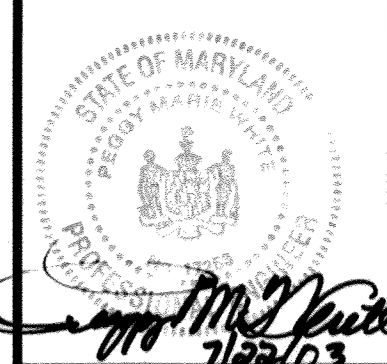
PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOTS/PARCELS	CENSUS TRACT		
DOBBIN RD COMMERCIAL CENTER	S-1	6067.03		
PLAT NO.	GRID NO.	ZONE	TAX MAP	ELECTION DISTRICT
16667	18	NT	36	2ND
WATER CODE	SEWER CODE			
607	533300			

APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	8/5/03 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	8/12/03 DATE
<i>[Signature]</i> DIRECTOR	8/12/03 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS	
<i>[Signature]</i> COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	8/8/03 DATE

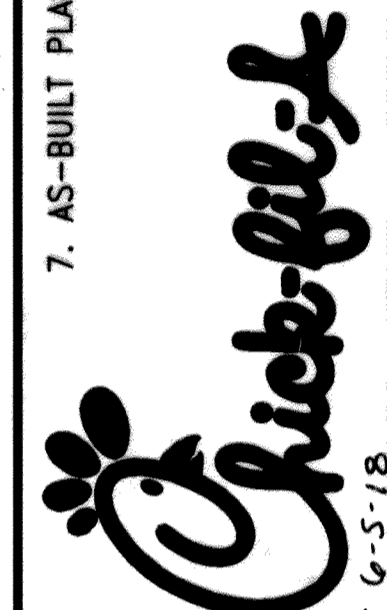
INDEX		
NO.	TITLE	REFERENCE
1	COVER SHEET W/ GENERAL NOTES	C-0
2	BOUNDARY and TOPOGRAPHIC SURVEY	C-1
3	DEMOLITION PLAN	C-1A
4	SITE PLAN	C-2
5	GRADING, DRAINAGE AND EROSION CONTROL PLAN	C-3
6	STANDARD CHICK-FIL-A DETAILS	C-4
7	STANDARD CHICK-FIL-A DETAILS	C-5
8	CONSTRUCTION DETAILS	C-6
9	LIGHTING AND PHOTOMETRIC PLAN	C-7
10	LANDSCAPE PLAN	L-1
11	LANDSCAPE DETAILS	L-2
12	PLUMBING SITE PLAN	PS-1
13	BIORETENTION FACILITY	PS-2
14	UTILITY PROFILES	PS-3
15	STORMWATER MANAGEMENT DETAILS	PS-4

OPTION 2: EXEMPT / DOI	FOREST CONSERVATION DATA SUMMARY
FILE NUMBER PROJECT SUBDIVISION NAME:	
SDP 03-96 DOBBIN ROAD COMMERCIAL CENTER, PARCEL S-1, CHICK-FIL-A RESTAURANT	
REGULATION SECTION: 16.1202(b)(1)(ii) (PROVIDE REGULATION REFERENCE AND A BRIEF DESCRIPTION OF THE APPLICABLE EXEMPTION OR DOI)	
DOBBIN CENTER DEVELOPMENT PREDATES FOREST CONSERVATION REGULATIONS AND HAD PRELIMINARY PLAN APPROVAL PRIOR TO 12/31/92.	



Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000

7. AS-BUILT PLANS 9-25-2020



DOBBIN COMMERCIAL CENTER
COLUMBIA, MD

01/21/02
12/03/02

Edition Date:	Project Date:	Revision
01/21/02	12/03/02	1
3/14/03		2
7/30/03		3
9/25/03		4
2/13/04		5

COVER SHEET WITH GENERAL NOTES
Sheet Title:
C-0
1 of 17



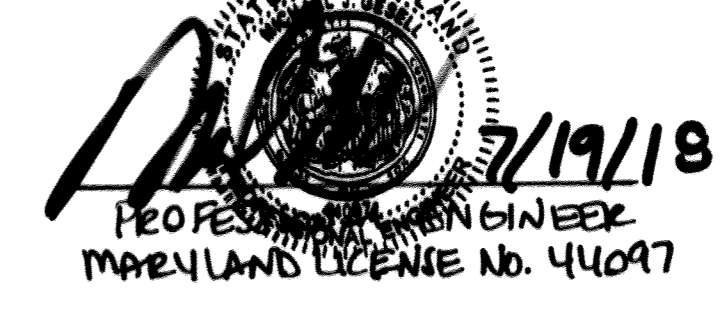
- LEGEND:**
- SHRUB
 - INDIVIDUAL TREES
 - GAS METER
 - SANITARY MANHOLE
 - STORM SEWER MANHOLE
 - POWER POLE
 - ELECTRIC BOX
 - STREET SIGN
 - UNDERGROUND SEWER LINE
 - APPROX. LOCATION UNDERGROUND WATER LINE
 - STREET LIGHT
 - WATER VALVE
 - FIRE HYDRANT

FINAL DEVELOPMENT CRITERIA AND SETBACK INFORMATION IS FOUND IN F.D.P. 132-A-III.

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. 44097. EXPIRATION DATE:

FOR REVISION 6 ONLY (AS-BUILT INFORMATION)

MICHAEL J. GESSEL



FOR REVISION 5 ONLY

Michael W. 9/29/16
PROFESSIONAL CERTIFICATION

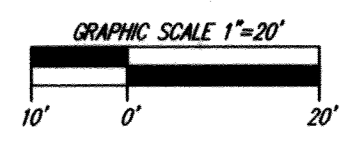
I, MICHAEL J. GESSEL, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 44097, EXPIRATION DATE: 6/19/17

APPROVED
PLANNING BOARD
of HOWARD COUNTY

DATE May 1, 2003

FOR REVISION 5 ONLY
BOHLER ENGINEERING
901 DULANEY VALLEY RD, STE 201
TOWSON, MD 21204
PHONE: 410-821-7400
FAX: 410-821-7497
MDC@BOHLERENG.COM

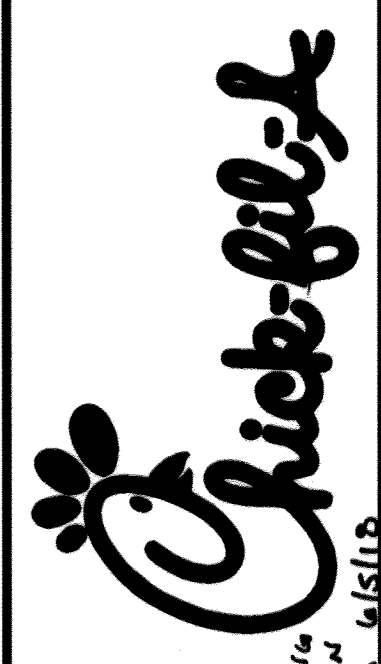
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Michael W.</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION MK	8/5/03 DATE
<i>Cindy Hamilton</i> CHIEF, DIVISION OF LAND DEVELOPMENT HB	8/12/03 DATE
<i>Mark & Angela</i> DIRECTOR	8/12/03 DATE



The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
Group, Inc.
7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
DRAWN BY: KL
DESIGNED BY: EM
CHECKED BY: JR

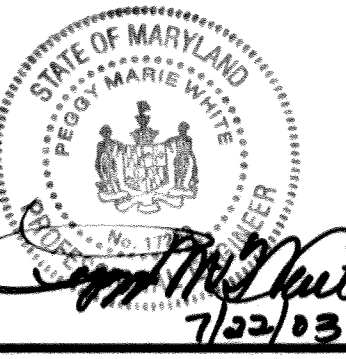
Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000



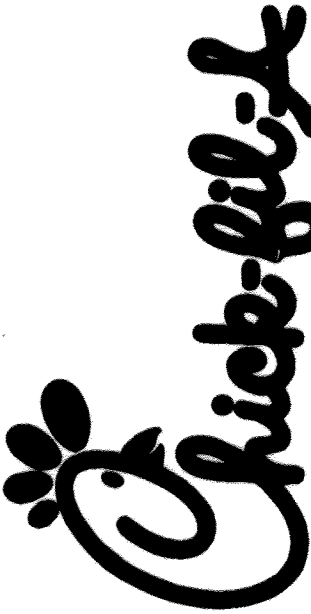
DOBBIN CENTER
COMMERCIAL CENTER
COLUMBIA, MD

Edition Date:	07/22/03
Project Date:	12/03/02
#	Revision
1	3/14/03 Notes revised per county comments
2	7/30/03 Bid Set and Howard County Approval
3	9/25/05 NO REVISIONS THIS SHEET
4	3/31/04 NO REVISIONS THIS SHEET

SHEET NO.
C-1
2 OF 17



Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 Telephone 404-765-8000



DOBBIN
 COMMERCIAL CENTER
 COLUMBIA, MD

Edition Date: 01/21/03
 Project Date: 12/03/02
 # Date Revision
 1 3/14/03 No revisions this sheet
 2 7/30/03 Bid Set and Howard County Approval
 3 5/25/05 NO REVISIONS THIS SHEET
 4 3/31/09 NO REVISIONS THIS SHEET
 SHEET TITLE: DEMOLITION PLAN

SHEET NO.
C-1A
 3 of 17

DEMOLITION LEGEND

- REMOVE TREE
- REMOVE CURB
- REMOVE LIGHT
- REMOVE BUILDING/STRUCTURE
- REMOVE LANDSCAPING
- REMOVE STORM DRAIN
- REMOVE WATER
- REMOVE ELECTRIC
- REMOVE SANITARY
- REMOVE TELEPHONE
- REMOVE GAS
- REMOVE SIDEWALK/SITE CONCRETE
- REMOVE POLE
- REMOVE CLEANOUT
- REMOVE SANITARY STRUCTURE
- REMOVE PAVING TO SUB BASE

DEMOLITION NOTES

- 1 REMOVE BUILDING
- 2 REMOVE CURB AND/OR CURB & GUTTER.
- 3 REMOVE LANDSCAPING
- 4 REMOVE PROPANE TANK AND ALL APPURTENANCES
- 5 ABANDON/ REMOVE UNDERGROUND UTILITIES
- 6 SAW CUT PAVING
- 7 REMOVE SIDEWALK. REMOVE TO NEAREST POINT IF PORTIONS OF SIDEWALK ARE TO REMAIN
- 8 REMOVE SHED, DUMPSTER, FENCING AND GATE.

I, MICHAEL J. GESELL, 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. 14191, EXPIRATION DATE: 01/31/14

FOR REVISION 6 ONLY (AS-BUILT INFORMATION)

MICHAEL J. GESELL

[Signature] 7/17/16
 PROFESSIONAL ENGINEER
 MARYLAND LICENSE NO. 14191

APPROVED
 PLANNING BOARD
 of HOWARD COUNTY

DATE May 1, 2003

FOR REVISION 5 ONLY

[Signature] 9/29/16
 PROFESSIONAL CERTIFICATION

I, MICHAEL J. GESELL, 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. 14191, EXPIRATION DATE: 01/31/14

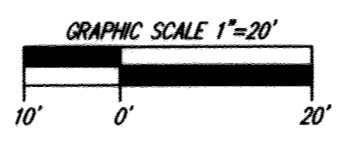
FOR REVISION 5 ONLY
 BOHLER ENGINEERING
 901 DULANEY VALLEY F.D. STE 801
 TOWSON, MD 21204
 Phone: 410-821-7400
 Fax: 410-821-7481
 MPE@BOHLERENH.COM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 05/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

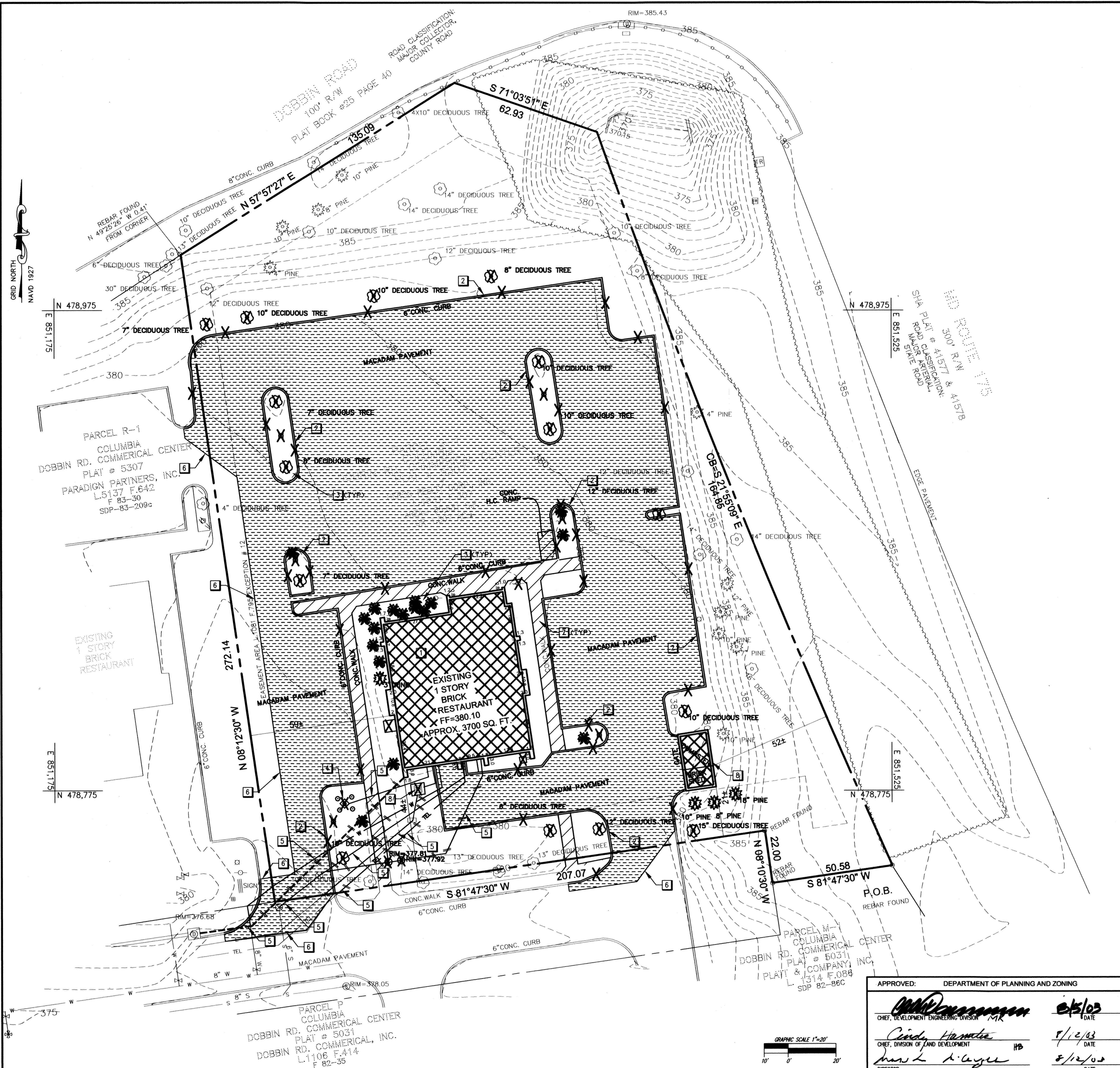
[Signature] 5/12/03
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 5/12/03
 DIRECTOR



The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
 DRAWN BY: KL
 DESIGNED BY: EM
 CHECKED BY: JR





Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000

7. AS-BUILT PLANS 9-25-2020



DOBBIN COMMERCIAL CENTER
COLUMBIA, MD

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: May 1, 2003

Edition Date: 01/21/03
Project Date: 12/03/02
Revision: 1
Date: 3/14/03
2: 7/30/03
3: 9/25/03
4: 3/31/04
Sheet Title: SITE PLAN & AS-BUILT PLANS 6/5/18 BUILDING ADDITION

SHEET NO. C-2 4 of 17

LIGHTING FIXTURE SCHEDULE

Mark	Manufacturer	Catalog Number	No. Lamps/Type	Watts	Volts	Mounting	Remarks
F	Lithonia	HSNG: #AFW-18TRT-5-120-EOL and TRIM #AFV-5AR-120-EOL-TRT-TRW	11/1/18TBXSPX35 -4-A	30	120	Recessed	Down Light, ALZAK Reflector, mount in SOFFIT
A,B,C-4	Lithonia	Fixture KAC 250M R4 120 RPD09 SF HS Bracket 190-T20 DOB or T20-280 DOB Pole SSS 20 56 120 DOB BC CFA L/AB	10/MVR250U per luminaire	250	120	15 foot pole, Dark Bronze in color	6.1 - See E for Typical Pole Base detail Fixtures on TENON, ALL parts to be DARK BRONZE
F	Lightway Industries	Fixture CFA100MH, Lamp Type 100MH	4	100	120	Wall Mounted 13'-6" above finished floor to centerline of fixture	See sheet C7 for more information. ALL parts to be DARK BRONZE

FOR REVISION 5 ONLY
BOHLER ENGINEERING
901 DULANEY VALLEY RD, STE. 201
TOWSON, MD 21284
PHONE: 410 821 1900
FAX: 410 821 1907
MDEBOHLEREN6.COM

FOR REVISION 5 ONLY
MICHAEL J. GESELL
PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 6/19/17

I, MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 6/19/17

FOR REVISION 6 ONLY (AS-BUILT INFORMATION)
MICHAEL J. GESELL
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44097

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: May 1, 2003

APPROVED: DEPARTMENT OF PLANNING AND ZONING

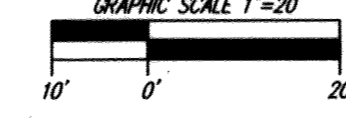
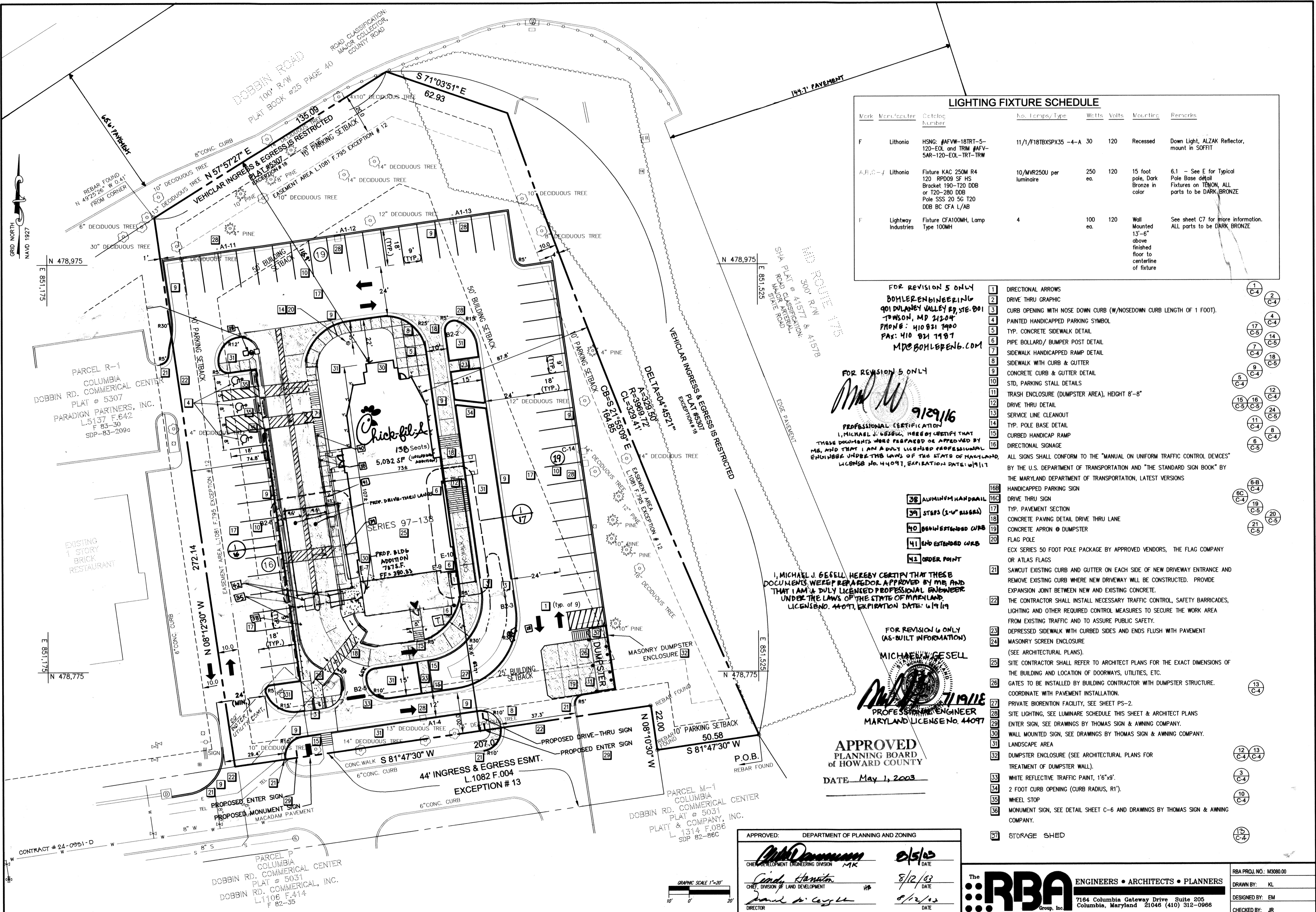
 Cheryl Dammann, MK, 6/5/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

 Cindy Hamilton, HP, 8/12/03
 CHIEF, DIVISION OF LAND DEVELOPMENT

 David de Ceylla, 8/12/03
 DIRECTOR

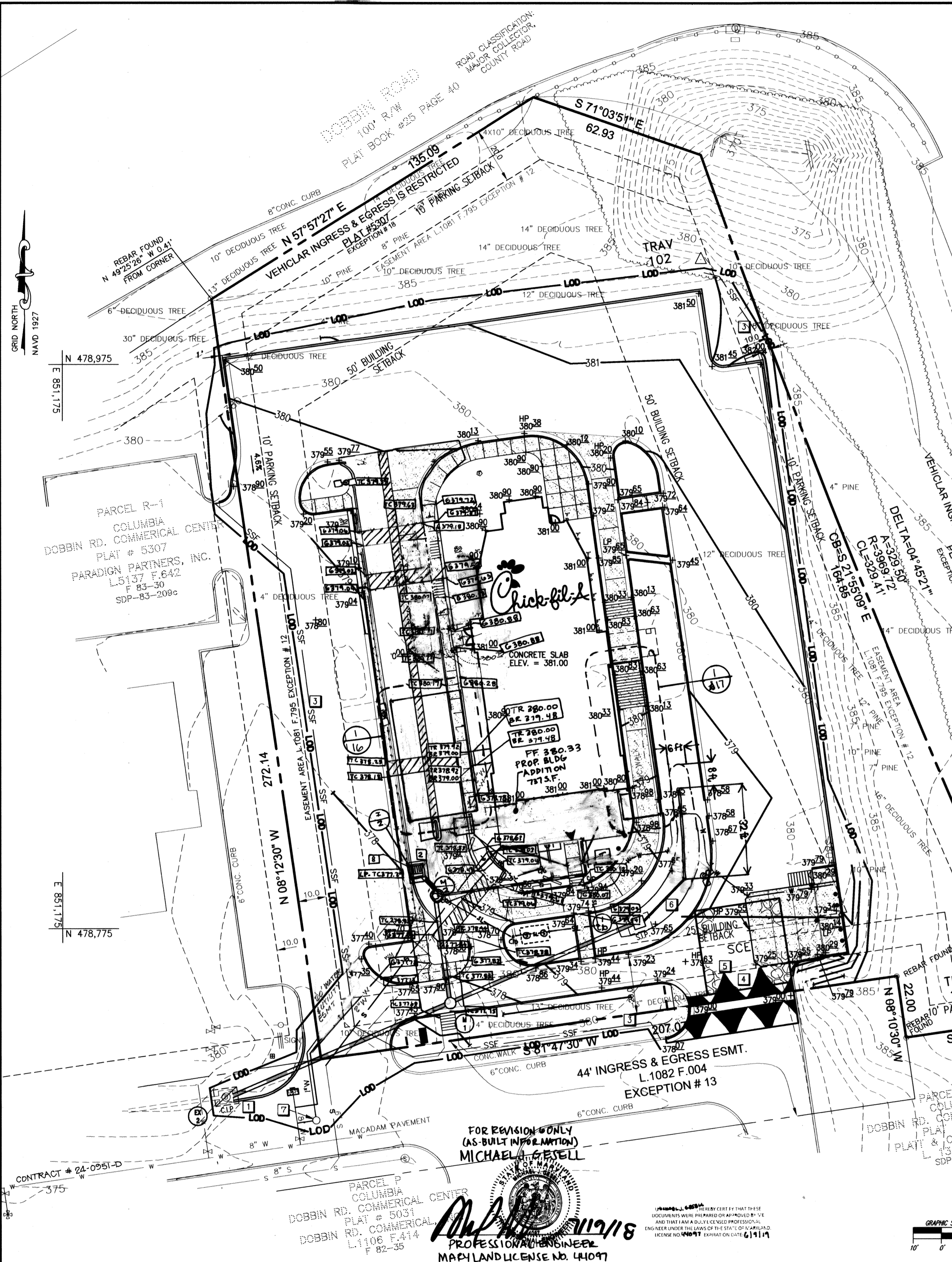
The RBA ENGINEERS • ARCHITECTS • PLANNERS
7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
DRAWN BY: KL
DESIGNED BY: EM
CHECKED BY: JR



- 1 DIRECTIONAL ARROWS
- 2 DRIVE THRU GRAPHIC
- 3 CURB OPENING WITH NOSE DOWN CURB (W/NOSE DOWN CURB LENGTH OF 1 FOOT)
- 4 PAINTED HANDICAPPED PARKING SYMBOL
- 5 TYP. CONCRETE SIDEWALK DETAIL
- 6 PIPE BOLLARD/ BUMPER POST DETAIL
- 7 SIDEWALK HANDICAPPED RAMP DETAIL
- 8 SIDEWALK WITH CURB & GUTTER
- 9 CONCRETE CURB & GUTTER DETAIL
- 10 STD. PARKING STALL DETAILS
- 11 TRASH ENCLOSURE (DUMPSTER AREA), HEIGHT 8'-8"
- 12 DRIVE THRU DETAIL
- 13 SERVICE LINE CLEANOUT
- 14 TYP. POLE BASE DETAIL
- 15 CURBED HANDICAP RAMP
- 16 DIRECTIONAL SIGNAGE
- 17 ALL SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U.S. DEPARTMENT OF TRANSPORTATION AND "THE STANDARD SIGN BOOK" BY THE MARYLAND DEPARTMENT OF TRANSPORTATION, LATEST VERSIONS
- 18 HANDICAPPED PARKING SIGN
- 19 DRIVE THRU SIGN
- 20 TYP. PAVEMENT SECTION
- 21 CONCRETE PAVING DETAIL DRIVE THRU LANE
- 22 CONCRETE APRON @ DUMPSTER
- 23 FLAG POLE
- 24 ECX SERIES 50 FOOT POLE PACKAGE BY APPROVED VENDORS, THE FLAG COMPANY OR ATLAS FLAGS
- 25 SAWCUT EXISTING CURB AND GUTTER ON EACH SIDE OF NEW DRIVEWAY ENTRANCE AND REMOVE EXISTING CURB WHERE NEW DRIVEWAY WILL BE CONSTRUCTED. PROVIDE EXPANSION JOINT BETWEEN NEW AND EXISTING CONCRETE.
- 26 THE CONTRACTOR SHALL INSTALL NECESSARY TRAFFIC CONTROL, SAFETY BARRICADES, LIGHTING AND OTHER REQUIRED CONTROL MEASURES TO SECURE THE WORK AREA FROM EXISTING TRAFFIC AND TO ASSURE PUBLIC SAFETY.
- 27 DEPRESSED SIDEWALK WITH CURBED SIDES AND ENDS FLUSH WITH PAVEMENT
- 28 MASONRY SCREEN ENCLOSURE (SEE ARCHITECTURAL PLANS).
- 29 SITE CONTRACTOR SHALL REFER TO ARCHITECT PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING AND LOCATION OF DOORWAYS, UTILITIES, ETC.
- 30 GATES TO BE INSTALLED BY BUILDING CONTRACTOR WITH DUMPSTER STRUCTURE. COORDINATE WITH PAVEMENT INSTALLATION.
- 31 PRIVATE BIORENTION FACILITY, SEE SHEET PS-2.
- 32 SITE LIGHTING, SEE LUMINAIRE SCHEDULE THIS SHEET & ARCHITECT PLANS
- 33 ENTER SIGN, SEE DRAWINGS BY THOMAS SIGN & AWNING COMPANY.
- 34 WALL MOUNTED SIGN, SEE DRAWINGS BY THOMAS SIGN & AWNING COMPANY.
- 35 LANDSCAPE AREA
- 36 DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS FOR TREATMENT OF DUMPSTER WALL).
- 37 WHITE REFLECTIVE TRAFFIC PAINT, 1/6"x9".
- 38 2 FOOT CURB OPENING (CURB RADIUS, R1').
- 39 WHEEL STOP
- 40 MONUMENT SIGN, SEE DETAIL SHEET C-6 AND DRAWINGS BY THOMAS SIGN & AWNING COMPANY.
- 41 STORAGE SHED

SDP-03-96



TEMPORARY SEEDING NOTES
 Apply to graded or cleared areas likely to be re-disturbed where a permanent long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
 1. Preferred—Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding apply 400 lbs/acre 30-0-0 urea form fertilizer (9 lbs/1000 sq. ft.)
 2. Acceptable—Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding: For the periods March 1 -- April 30, and August 1 -- October 15, seed with 60 lbs/acre (14 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 -- July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 -- February 28, protect site by:
 Option 1 -- Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring.
 Option 2 -- Use sod. Option 3 -- Seed with 60 lbs/acre Kentucky 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeding areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES
 Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seeded preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: -- For periods March 1 -- April 30 and from August 15 -- October 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq. ft.). For the period May 1 -- August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16 -- February 28 protect the site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: -- Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

- STANDARD SEDIMENT CONTROL NOTES**
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
 - All vegetative and structural practices are to be installed according to the provisions of these plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
 - Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days for all other disturbed or graded areas on the project site.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
 - All sediment control structures are to remain in place and are to be in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
 - Site Analysis:

Total Area of Site	1.5	Acres
Area Disturbed	1.22	Acres
Area to be roofed or paved	0.88	Acres
Area to be vegetatively stabilized	0.34	Acres
Total Cut	450	Cu. Yds.
Total Fill	450	Cu. Yds.
Offsite waste/borrow area location:	N/A	
 - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
 - On All sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
 - Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.

FOR REVISIONS ONLY
Michael J. Gezell 7/29/16
PROFESSIONAL CERTIFICATION
 I, MICHAEL J. GEZELL, 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. 44097, EXPIRATION DATE: 6/19/17

BENCHMARK
 Horizontal Datum: Howard County Grid System (NAVD 1927)
 Vertical Datum: NAVD 1929
 As projected by the RBA Group from Howard County Geodetic Survey Control, 36FB to traverse points TRAV 102, N479012.335, E851402.117, Elev. 382.76 TRAV 103, N478752.838, E851503.627, Elev. 378.83

- SEQUENCE OF CONSTRUCTION**
- Obtain Grading Permit.
 - Obtain Demolition Permit.
 - Clear & grub and install all sediment control devices.
 - Begin all demolition work.
 - Once demolition is complete, begin rough grading and building construction.
 - Once sub-grade elevations are reached, install utilities, curb & gutter, bioretention facility, and stone sub-base for parking lot sections.
 - Fine grade and vegetatively stabilize all disturbed areas not to be paved.
 - Pave parking lot sections.
 - Upon stabilization of site with established vegetation and with permission of the Sediment Control Inspector, remove sediment control measures and stabilize those areas disturbed by these process.

- EROSION CONTROL DETAIL KEYS**
- | | |
|--|---------|
| 1 CURB INLET PROTECTION | 23C C-6 |
| 2 STANDARD INLET PROTECTION | 23A C-6 |
| 3 SUPER SILT FENCE | 33 C-6 |
| 4 STABILIZED CONSTRUCTION ENTRANCE | 24 C-6 |
| 5 MOUNTABLE BERM | 99 C-6 |
| 6 PRIVATE BIORETENTION FACILITY, SEE SHT. PS-2 | |
| 7 1" WATER METER 4 PIT FOR IRRIGATION, SEE SHT. PS-1 | |
| 8 JELLYFISH FILTER, SEE SHEET PS-4 | |

SEDIMENT CONTROL
 By the Developer:
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

T.O. Mc 7/24/03
 Signature of Developer Date

Thomas A. Nolan
 Print name below signature

By the Engineer:
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Suparna M. Nandi 7/22/03
 Signature of Engineer Date

Peggy M. White
 Print name below signature

Reviewed for HOWARD SCD and meets Technical Requirements.
Jim Myers 8/4/03
 MDA-Natural Resources, Conservation Service Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John R. Robertson 8/4/03
 Howard SCD Date

FOR REVISIONS ONLY
BOHLER ENGINEERING
 901 DULANEY VALLEY RD STE 801
 TOWSON, MD 21204
 PHONE: 410-821-7400
 FAX: 410-821-7909
 MD@BOHLERENGL.COM

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Michael J. Gezell 8/5/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE
Chris Horvath 8/12/03
 CHIEF, DIVISION OF LAND DEVELOPMENT HB DATE
Deborah A. Gayle 7/12/03
 DIRECTOR DATE

RBA ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc. 7184 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
 DRAWN BY: KL
 DESIGNED BY: EM
 CHECKED BY: JR

Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 Telephone 404-765-8000

7. AS-BUILT PLANS 9-25-2020

Chick-fil-A

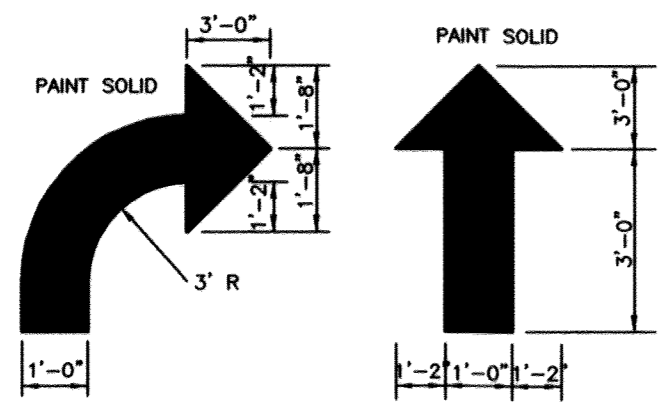
DOBBIN COMMERCIAL CENTER
 COLUMBIA, MD

GRADING, DRAINAGE & EROSION CONTROL PLAN

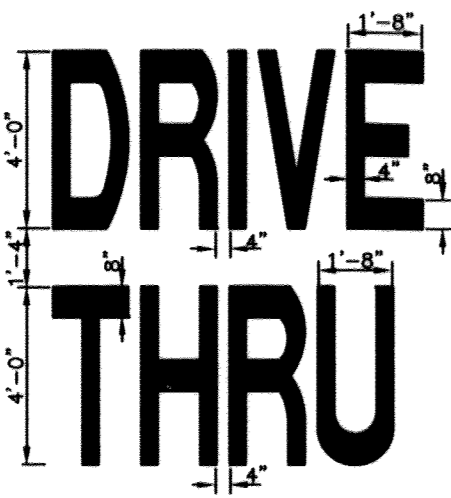
AS-BUILT PLANS 6/15/18

Edition Date: 01/21/03
 Project Date: 12/03/02
 # 1
 Date 3/14/03
 # 2
 Date 7/20/03
 # 3
 Date 7/22/03
 # 4
 Date 7/25/03

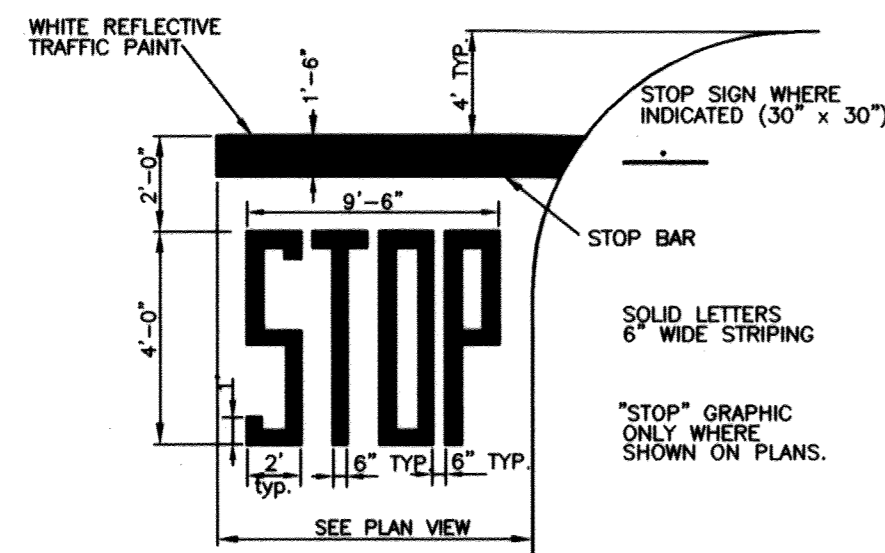
SHEET NO. C-3
 5 of 17



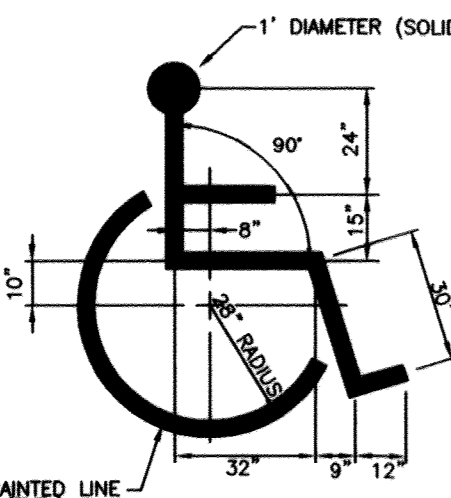
1 DIRECTIONAL ARROW DETAILS
NOT TO SCALE



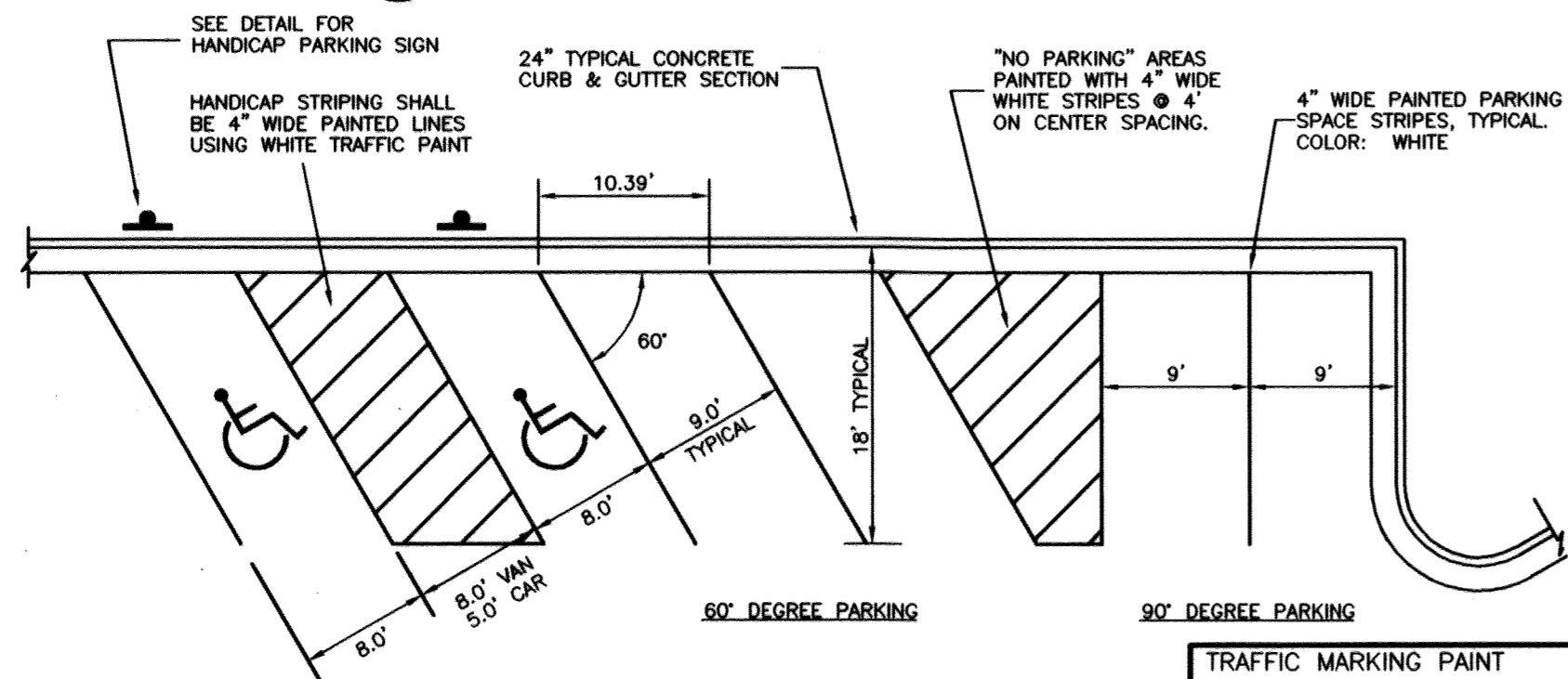
2 DRIVE-THRU GRAPHICS DETAIL
NOT TO SCALE



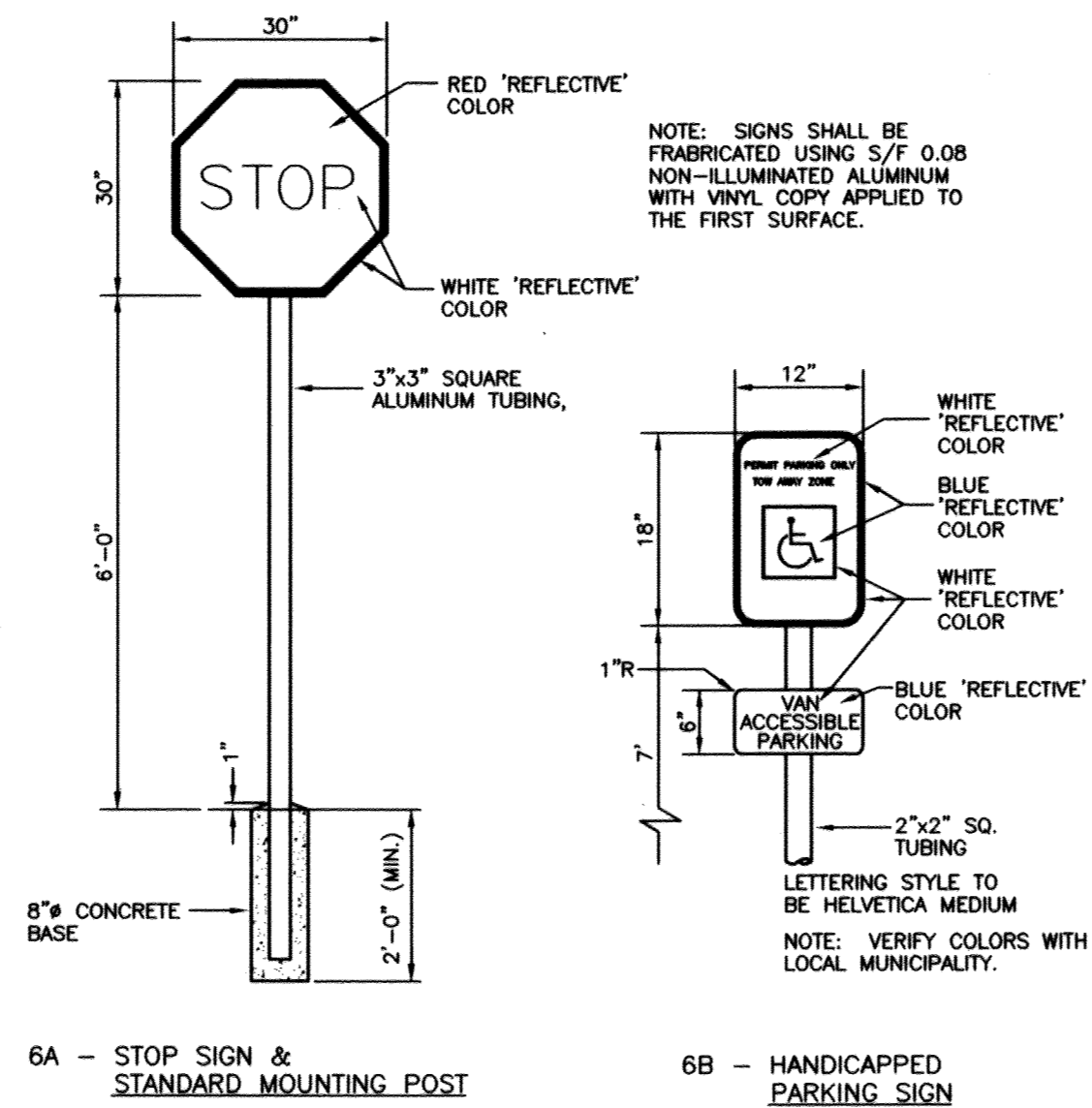
3 STOP LINE GRAPHIC DETAIL
NOT TO SCALE



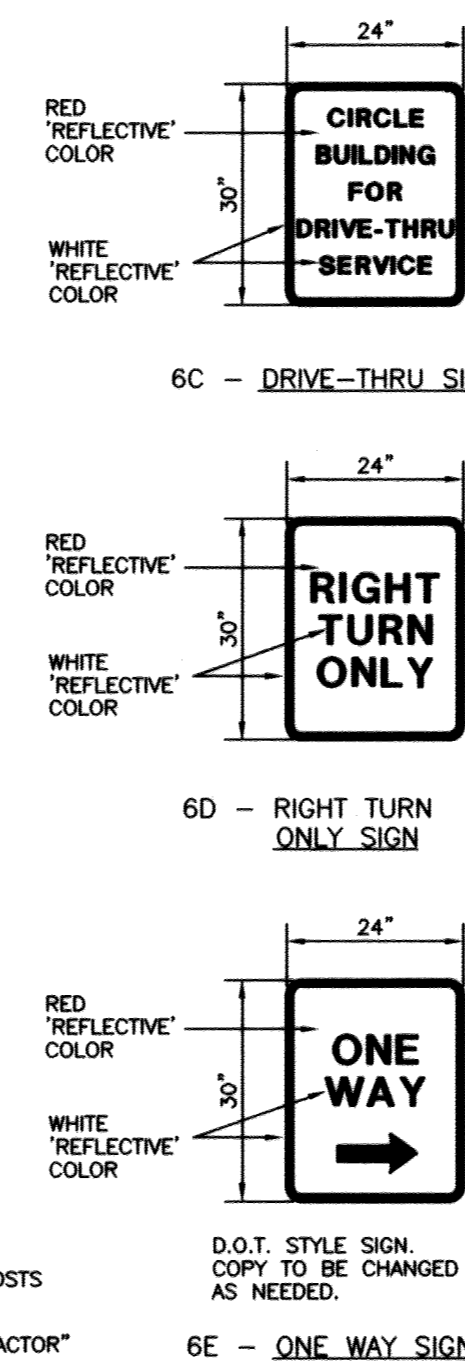
4 HANDICAP SYMBOL DETAIL
NOT TO SCALE



5 STANDARD PARKING STALL DETAILS
NOT TO SCALE

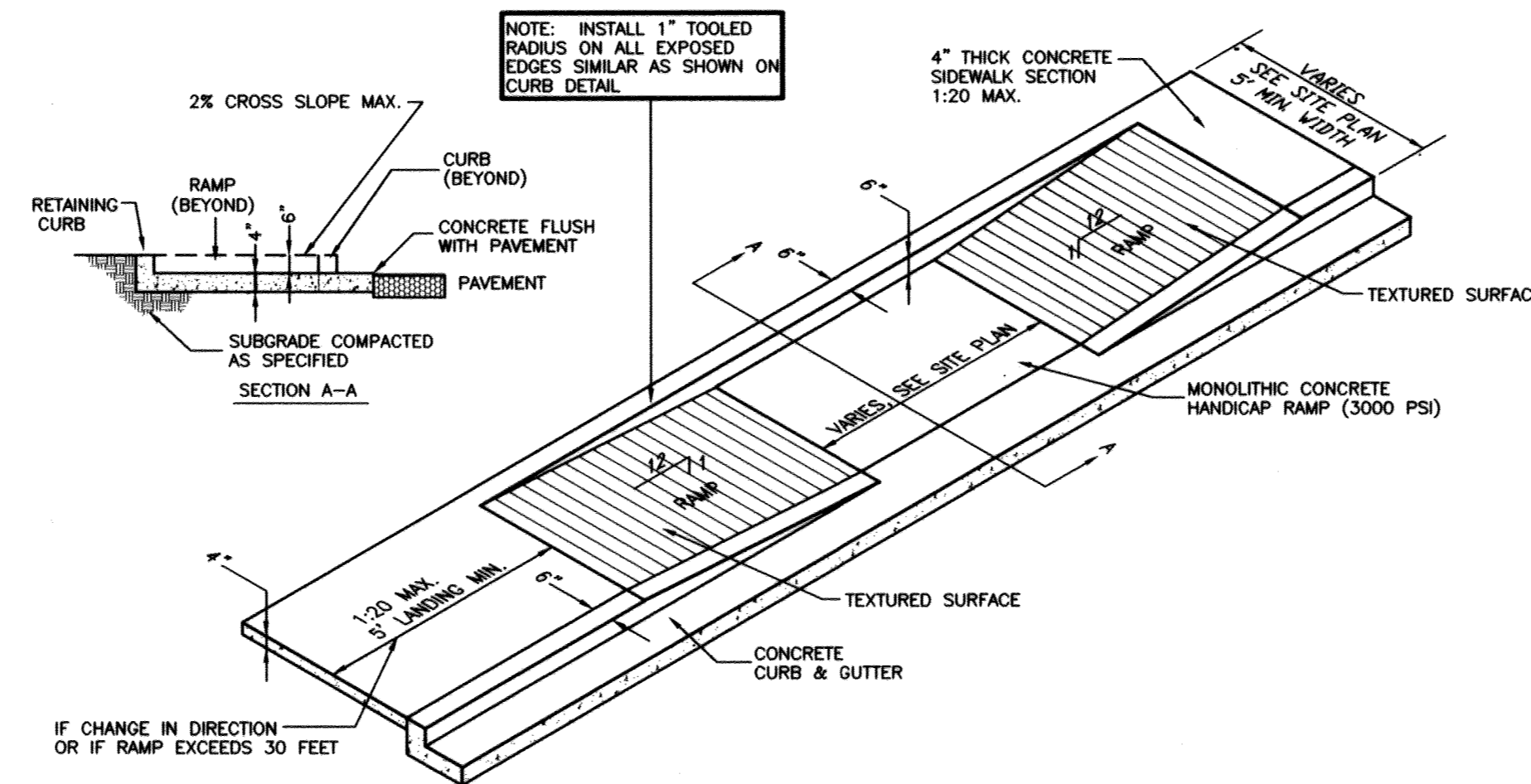


6A - STOP SIGN & STANDARD MOUNTING POST
6B - HANDICAPPED PARKING SIGN

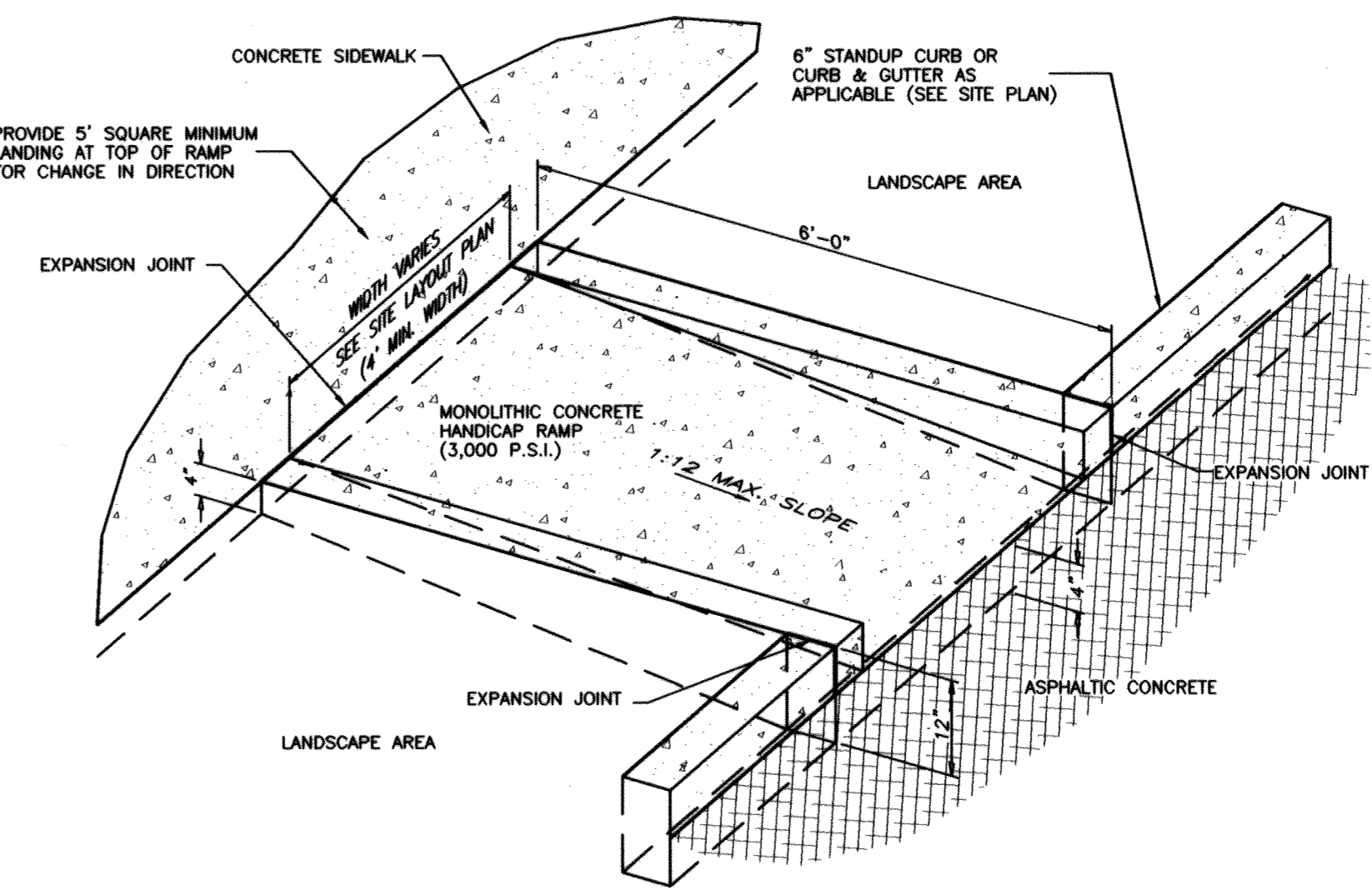


6C - DRIVE-THRU SIGN
6D - RIGHT TURN ONLY SIGN
6E - ONE WAY SIGN

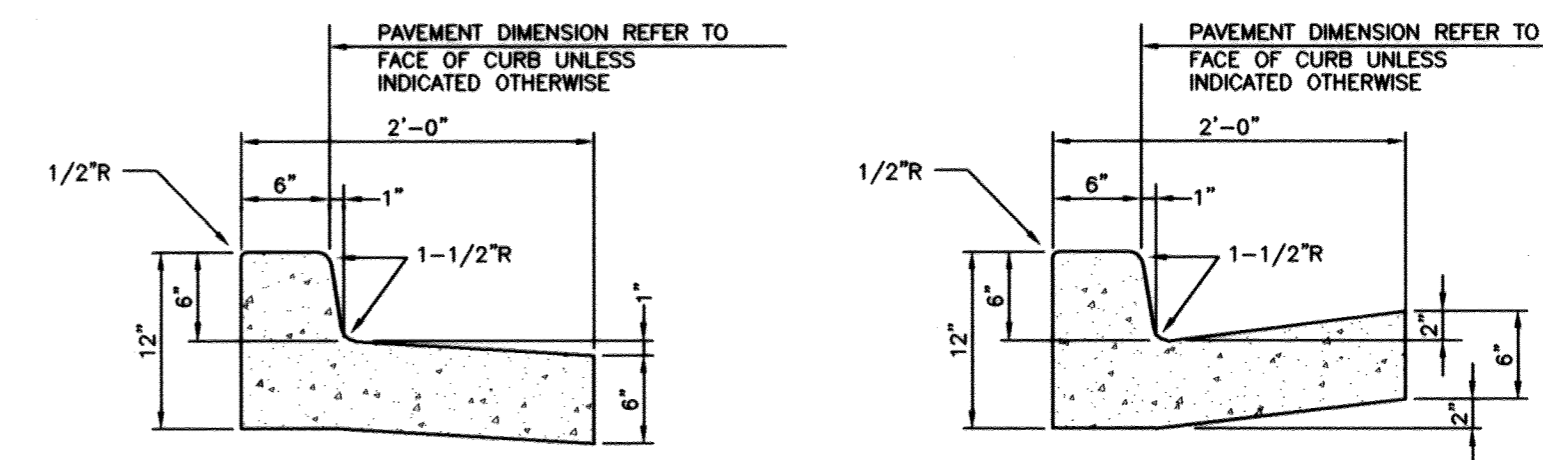
6 SIGNAGE DETAIL
NOT TO SCALE



7 SIDEWALK HANDICAP RAMP DETAIL
NOT TO SCALE



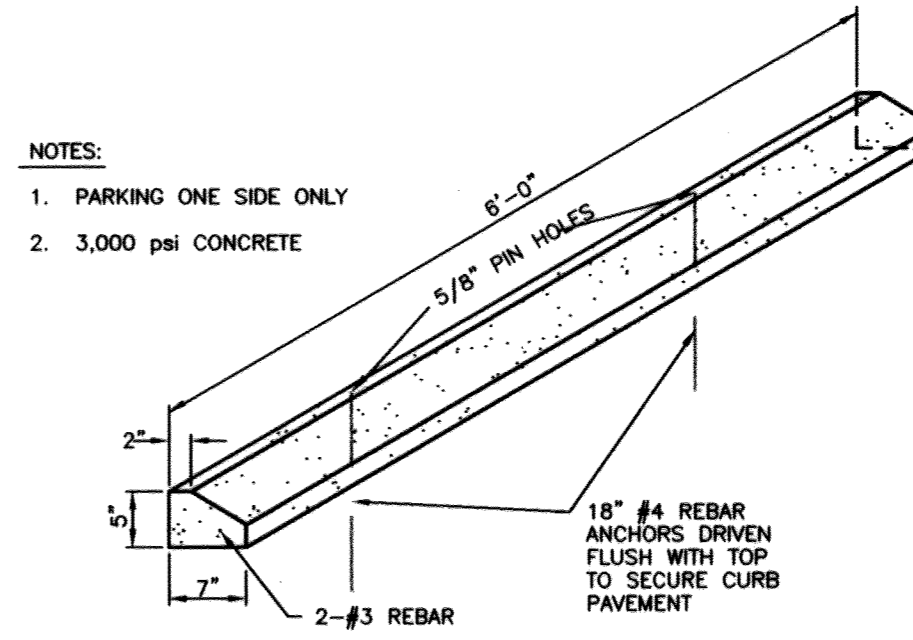
8 CURBED HANDICAP RAMP DETAIL
NOT TO SCALE



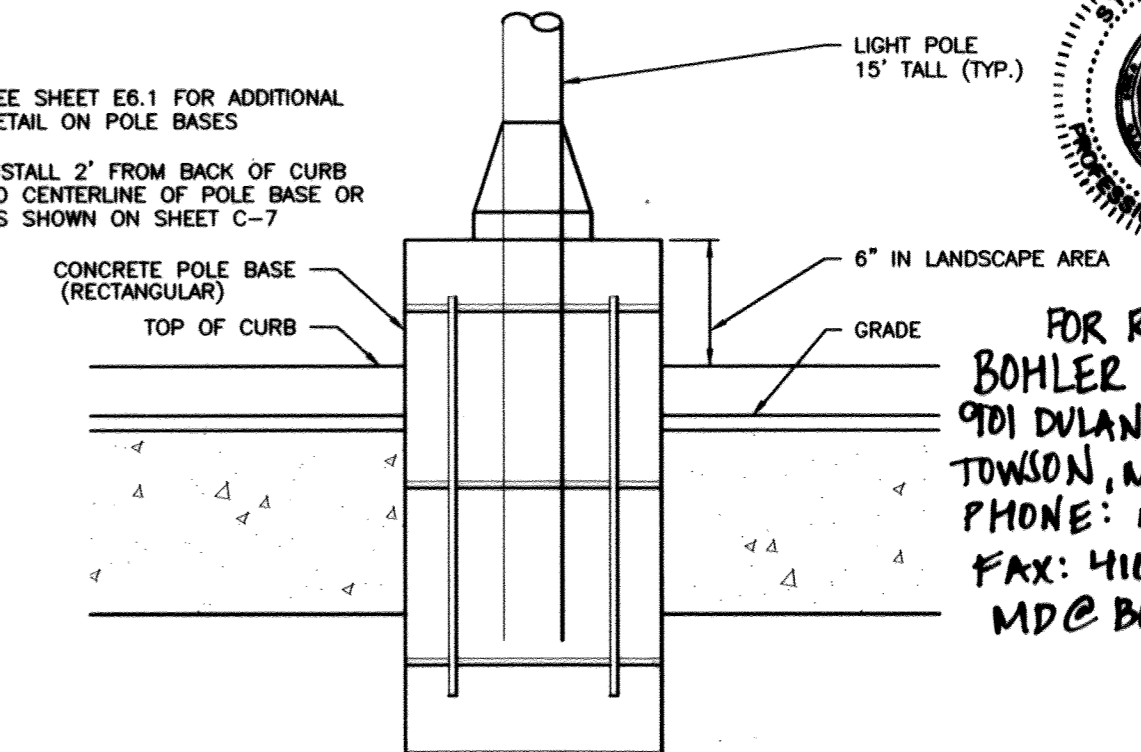
9A SPILLING CURB AND GUTTER
9B CATCHING CURB AND GUTTER

9 CONCRETE CURB & GUTTER DETAILS
NOT TO SCALE

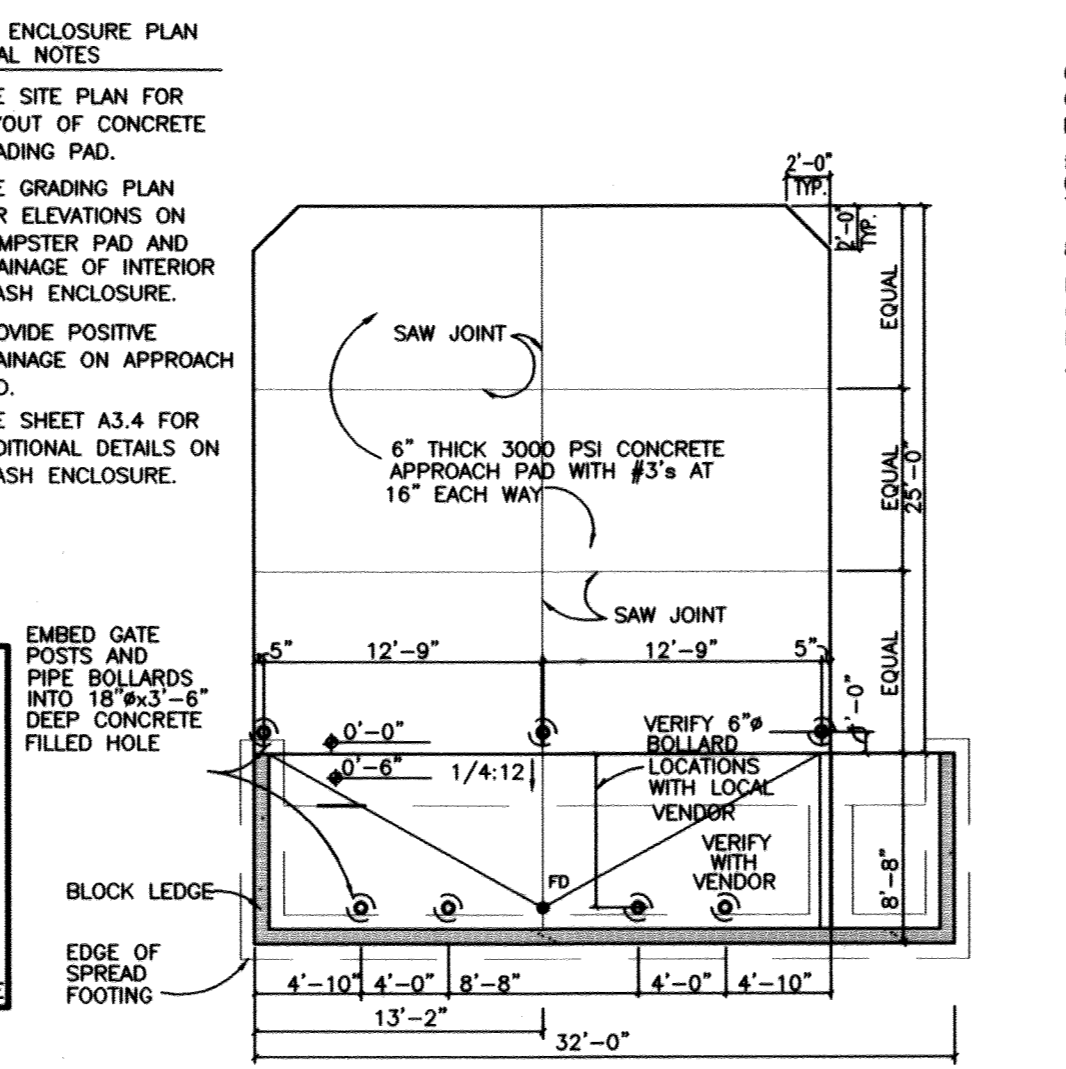
- NOTES:
1. PARKING ONE SIDE ONLY
 2. 3,000 PSI CONCRETE



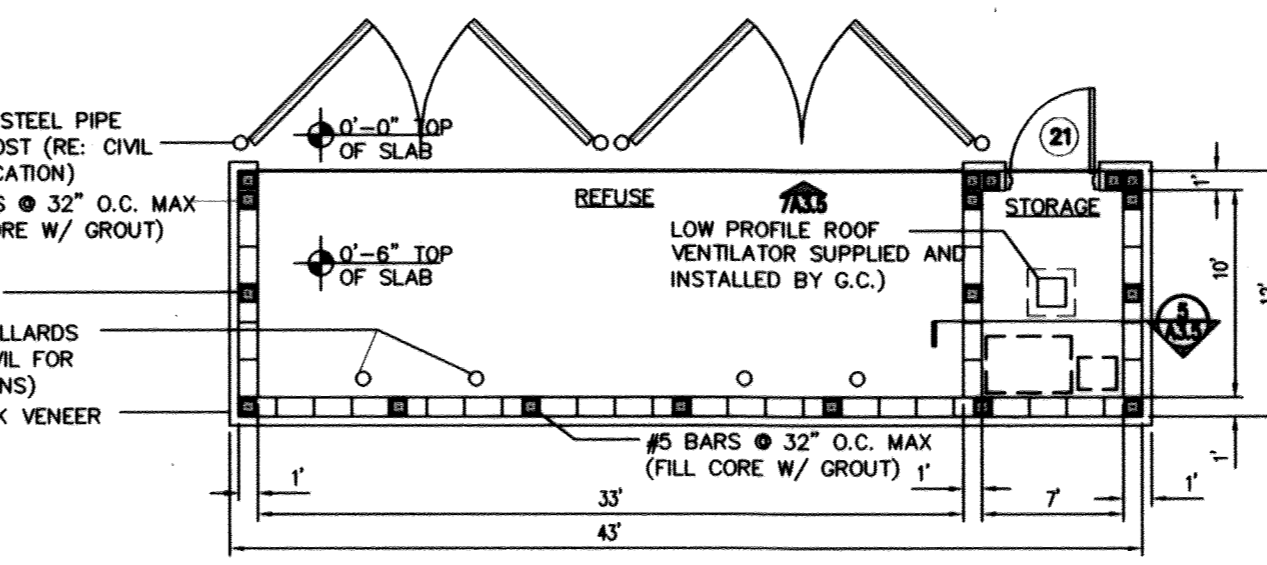
10 CONCRETE WHEEL STOP DETAIL
NOT TO SCALE



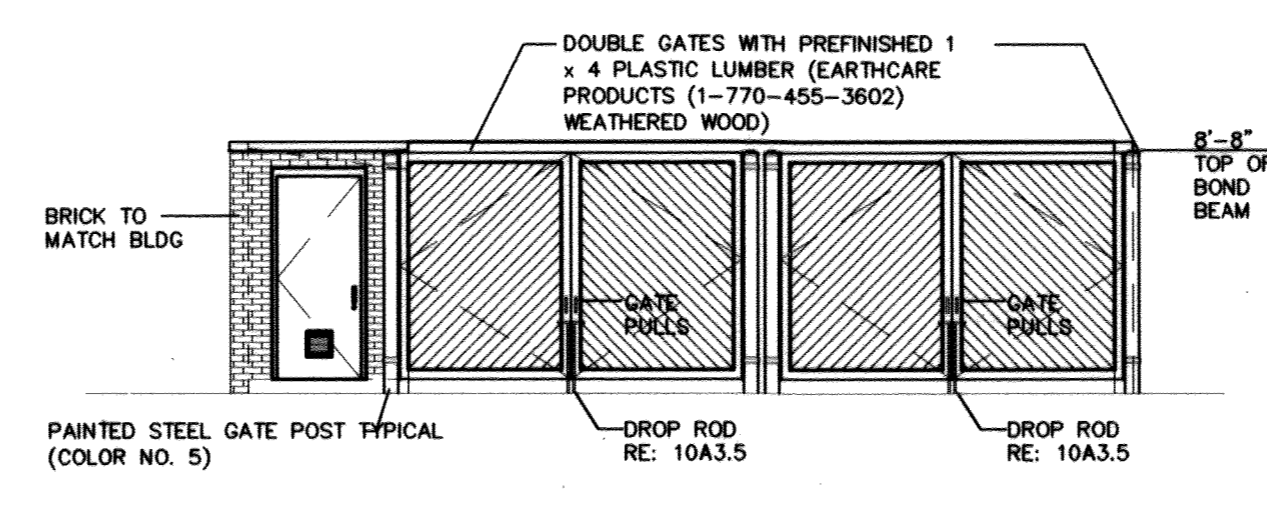
11 TYPICAL POLE BASE DETAIL
NOT TO SCALE



12 TRASH ENCLOSURE FOUNDATION PLAN
NOT TO SCALE



13 ELEVATION
NOT TO SCALE



I, MICHAEL J. BESELL, 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. 44091 EXPIRES 07/19/18.

MICHAEL J. BESELL
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44091
7/19/18

FOR REVISION 5 ONLY
MICHAEL J. BESELL, 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. 44091. EXP. DATE: 07/19/18.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: May 1, 2003

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

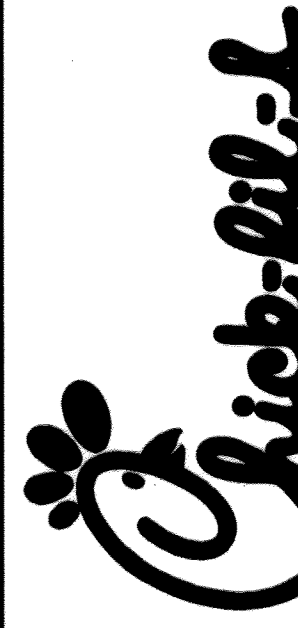
8/5/03
8/12/03
8/12/03

The RBA ENGINEERS • ARCHITECTS • PLANNERS
7184 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0968

RBA PROJ. NO.: M3080.00
DRAWN BY: KL
DESIGNED BY: EM
CHECKED BY: JR



Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000



DOBBIN COMMERCIAL CENTER
COLUMBIA, MD

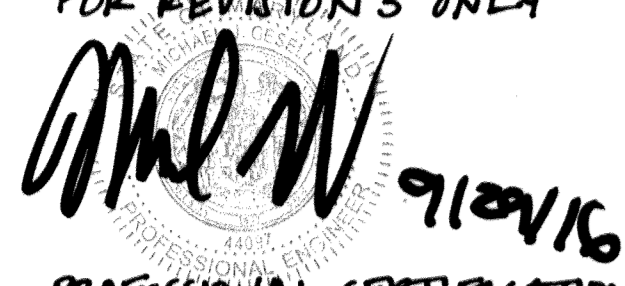
10/21/03
12/03/02
Revision
3/14/03
7/30/03
3/13/04

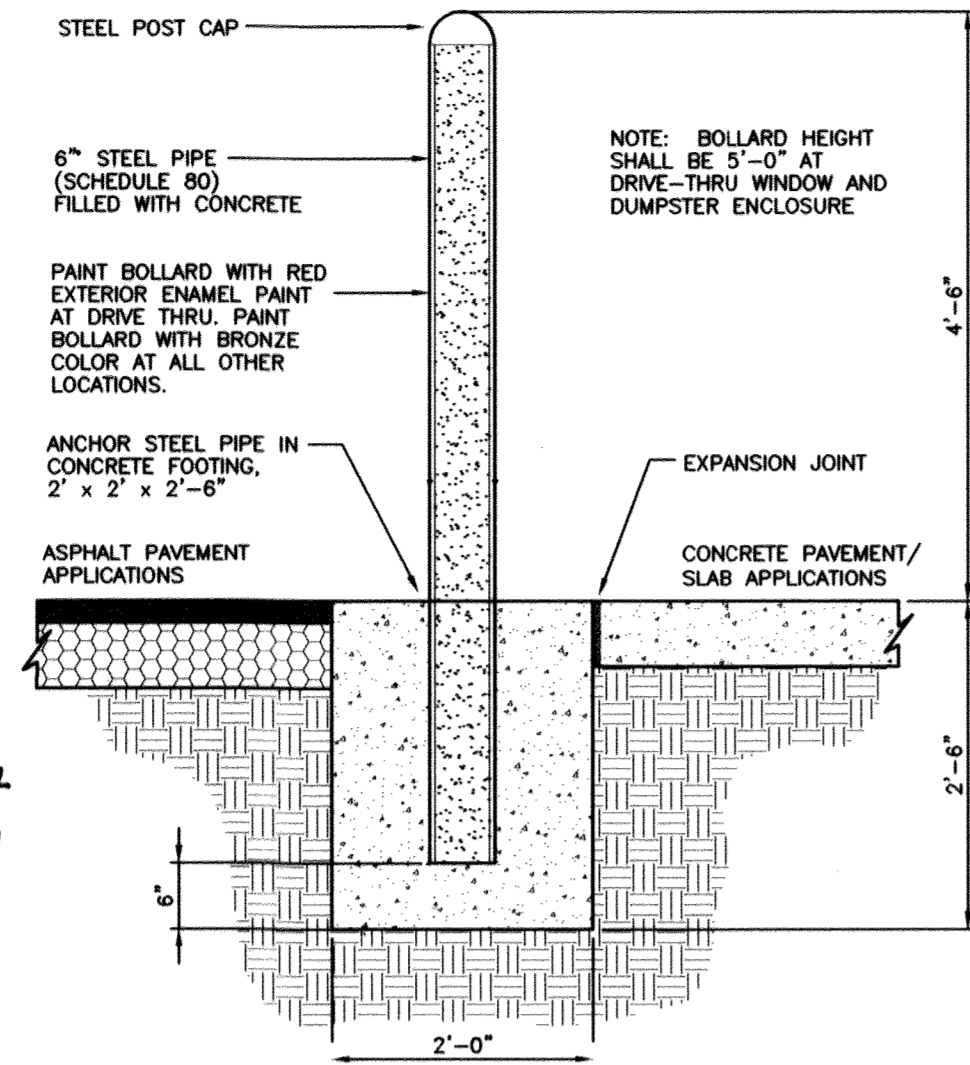
NO REVISIONS THIS SHEET
NO REVISIONS THIS SHEET

STANDARD DETAILS 6 - AS-BUILT PLANS 9/18

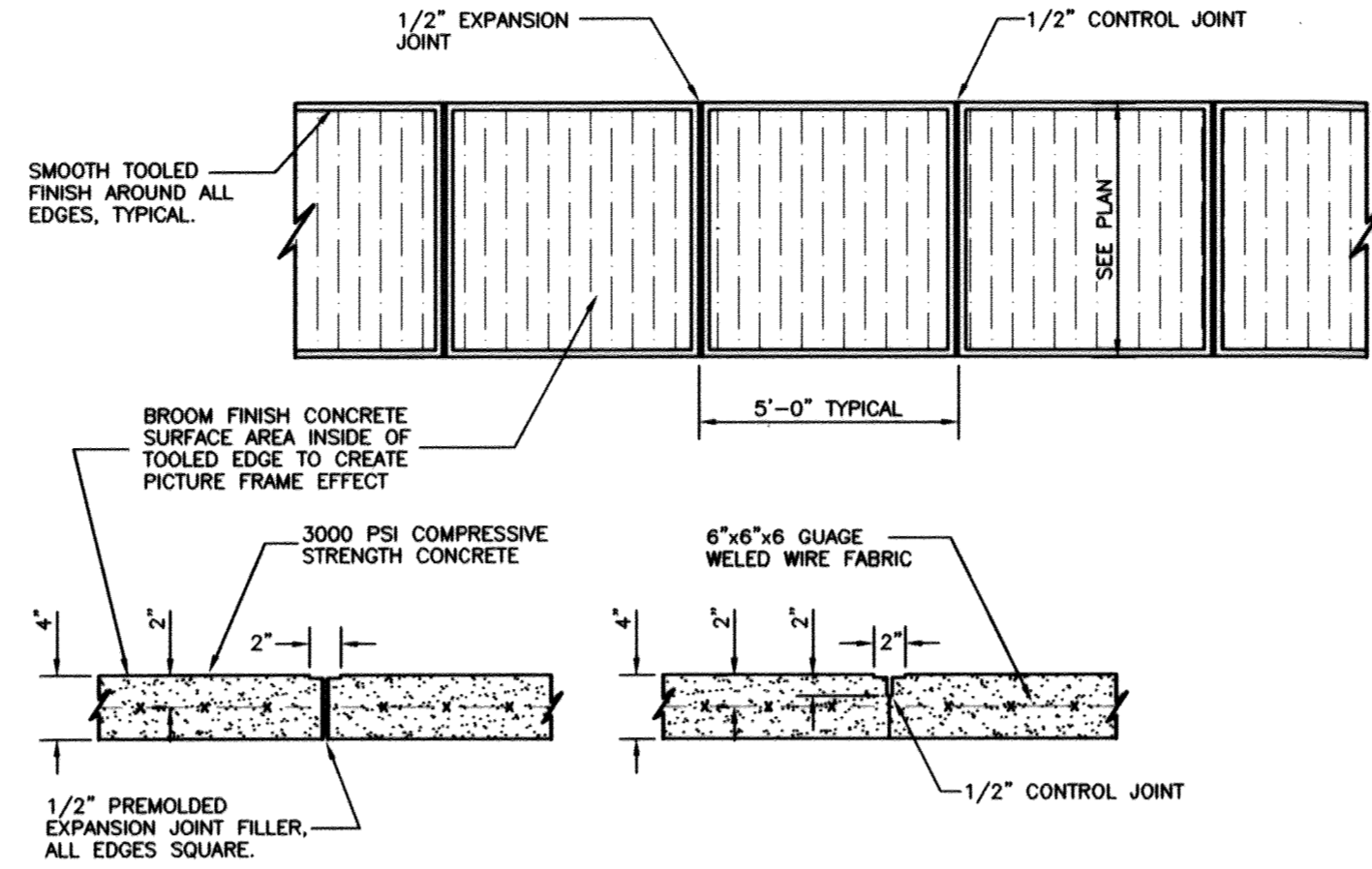
SHEET NO.
C-4
6 of 17

FOR REVISION 5 ONLY
 BOHLER ENGINEERING
 901 DULANEY VALLEY RD STE 801
 TOWSON, MD 21204
 PHONE: 410-821-7900
 FAX: 410-821-7987
 MDC BOHLERENG.COM

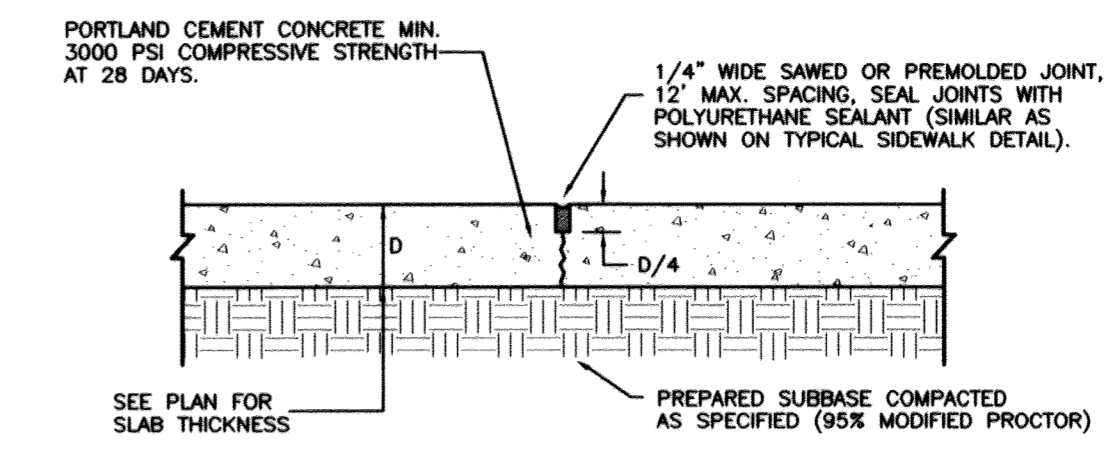
FOR REVISIONS ONLY

 PROFESSIONAL CERTIFICATION
 I, MICHAEL J. GESELL, 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. 44097 EXP. DATE 01/11/17



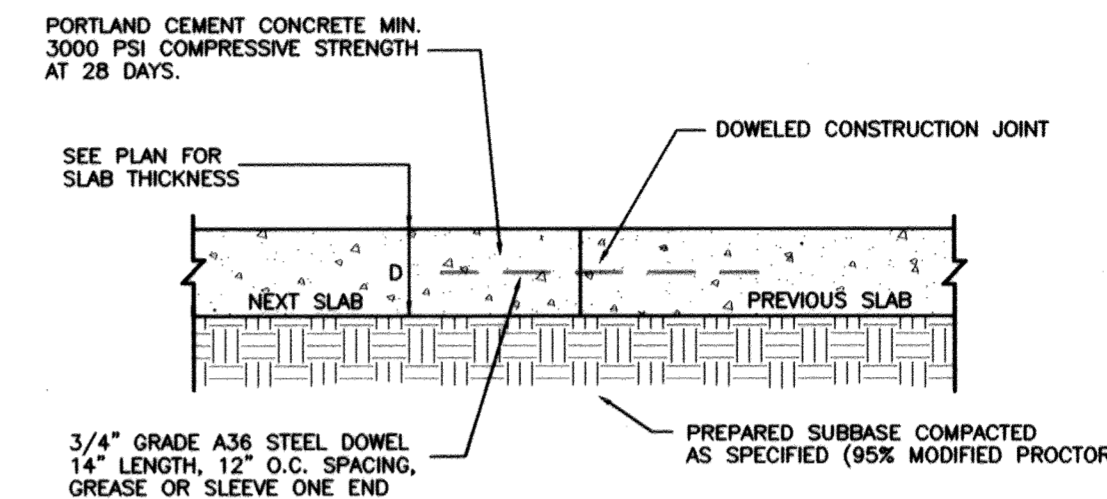
14 PIPE BUMPER POST DETAIL
 NOT TO SCALE



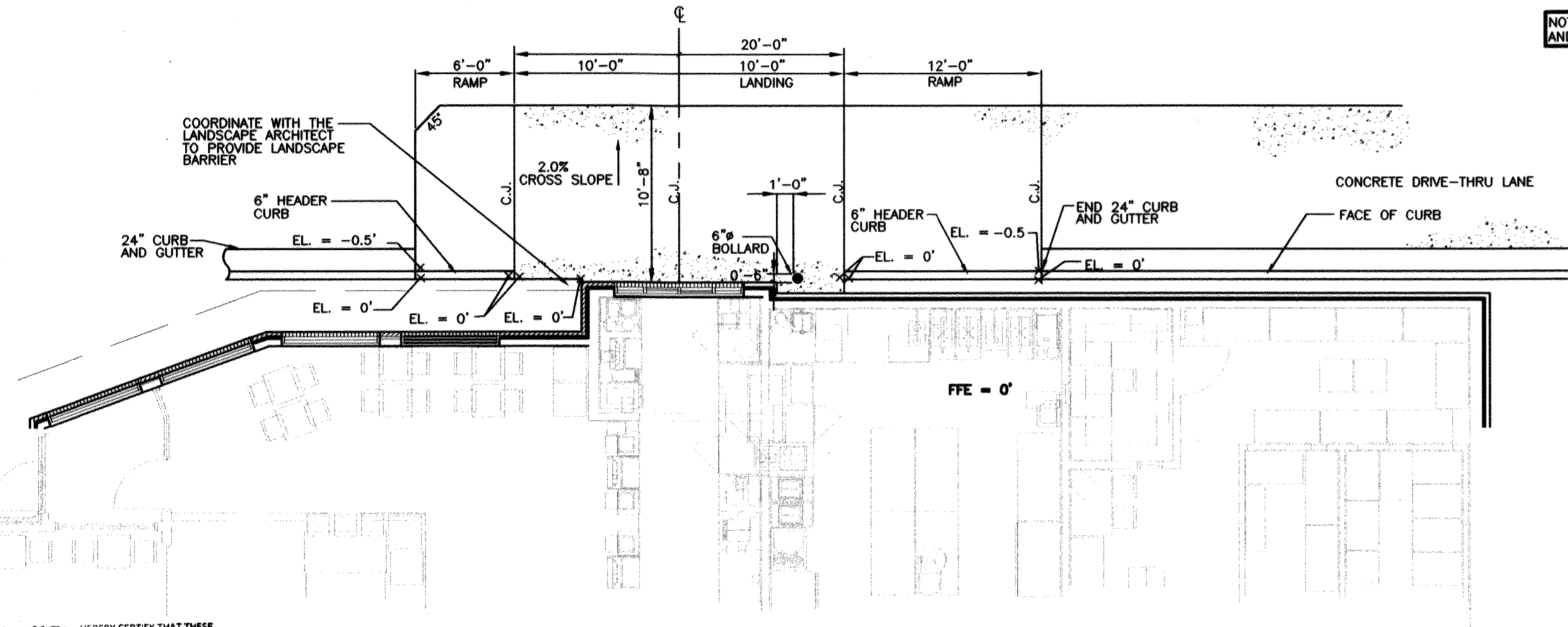
17 TYPICAL CONCRETE SIDEWALK DETAIL
 NOT TO SCALE



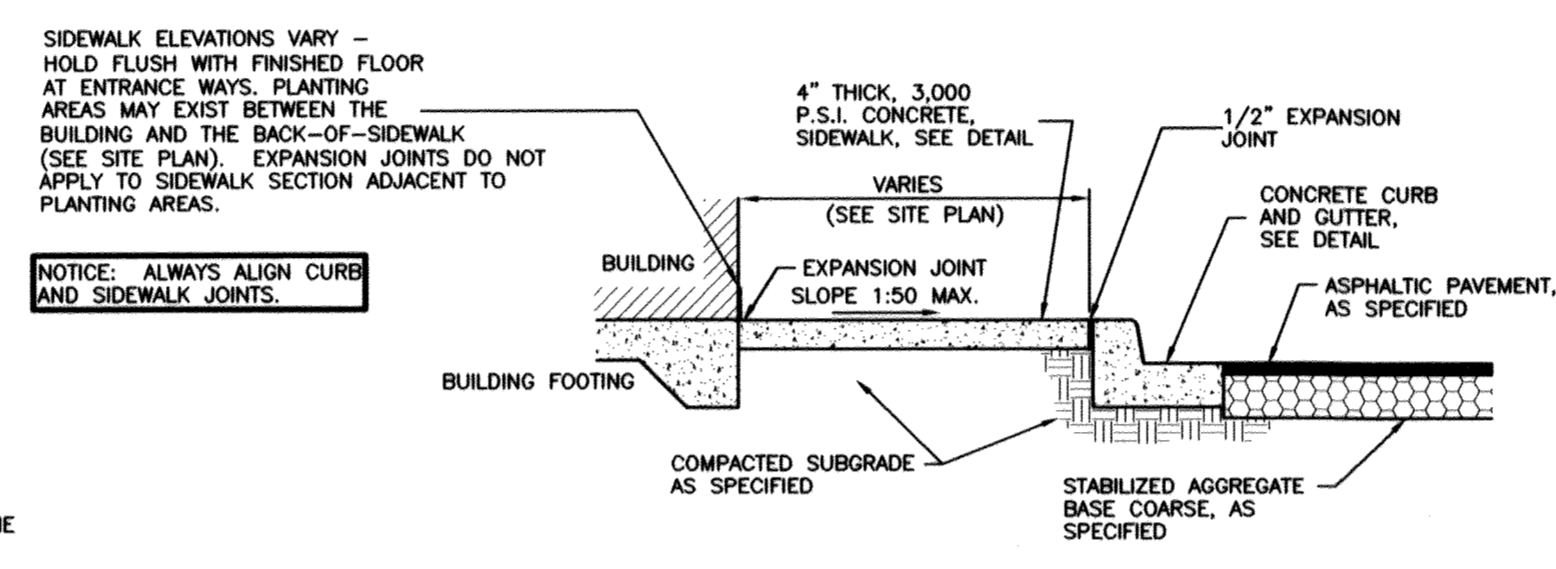
22 TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT
 NOT TO SCALE



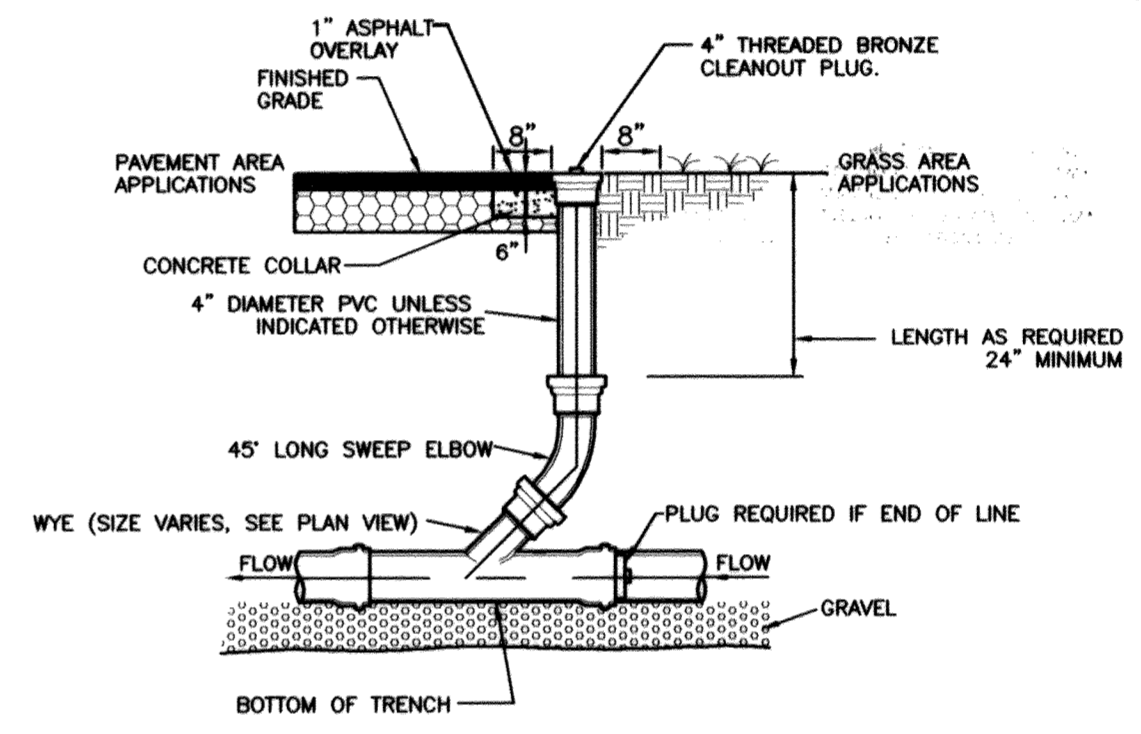
23 TRANSVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT
 NOT TO SCALE



15 DRIVE-THRU PLAN VIEW
 NOT TO SCALE

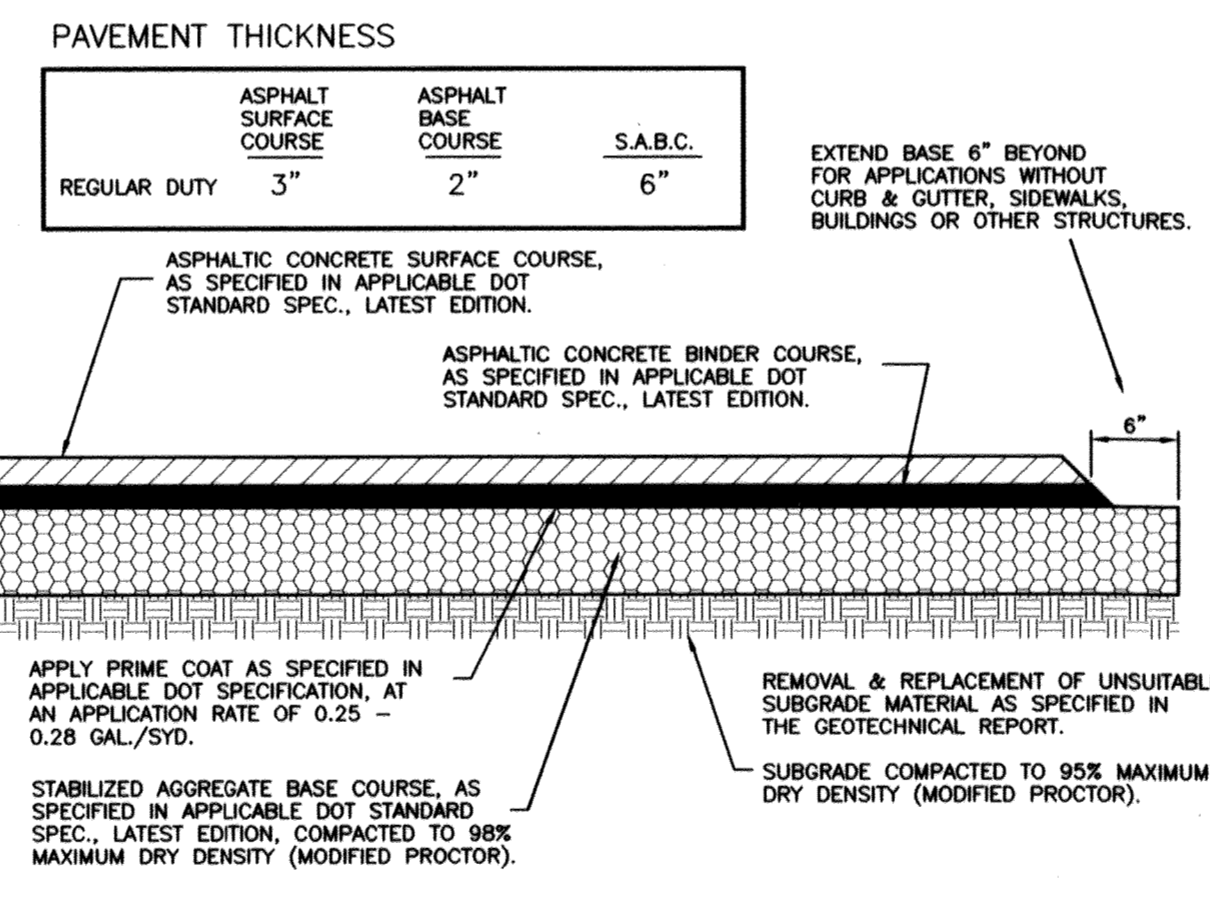


18 SIDEWALK WITH CURB & GUTTER SECTION
 NOT TO SCALE

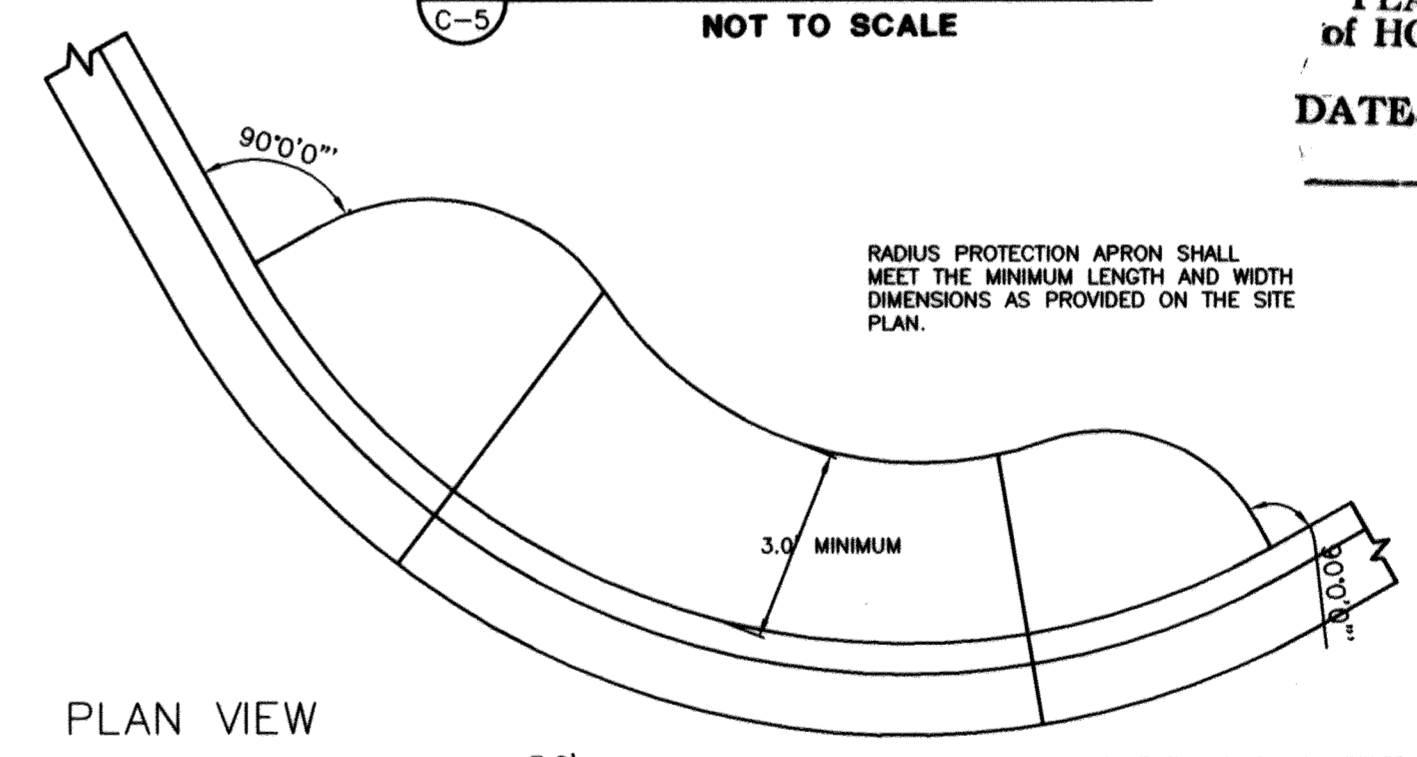


24 SERVICE LINE CLEANOUT
 NOT TO SCALE

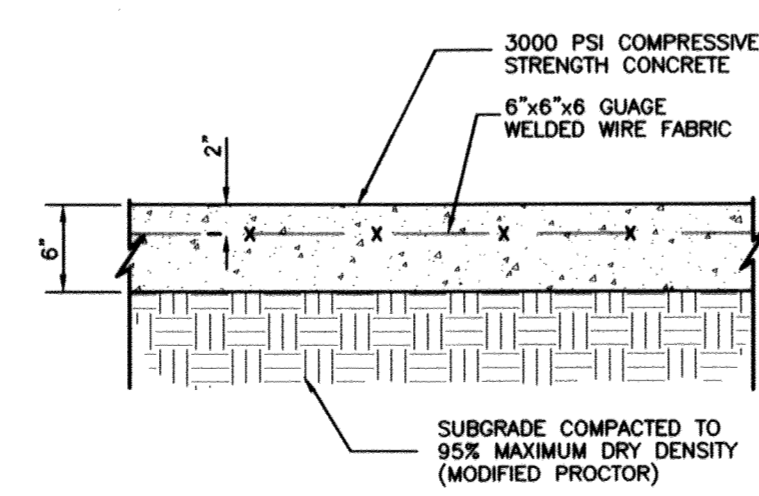
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: May 4, 2003



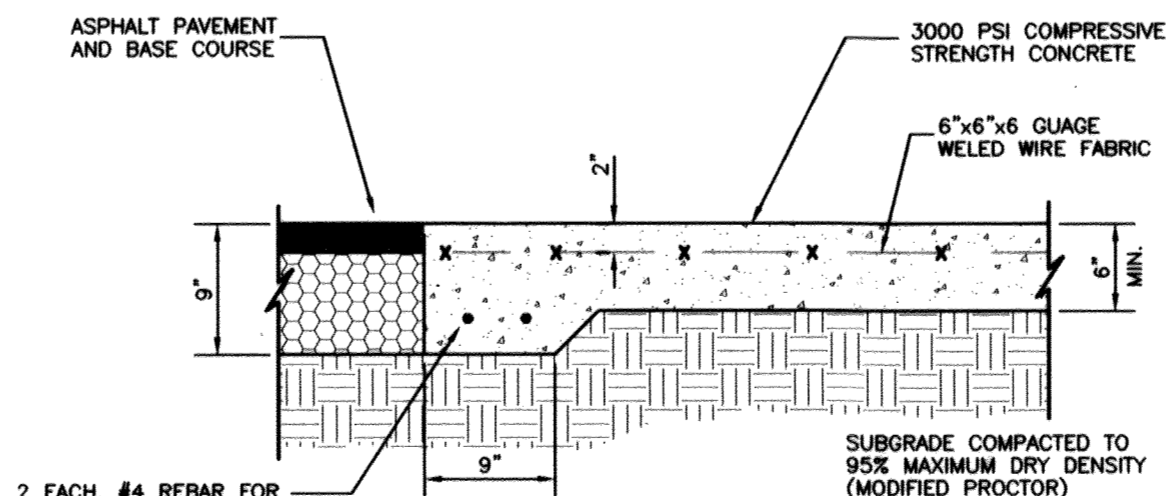
19 TYPICAL PAVEMENT SECTION
 NOT TO SCALE



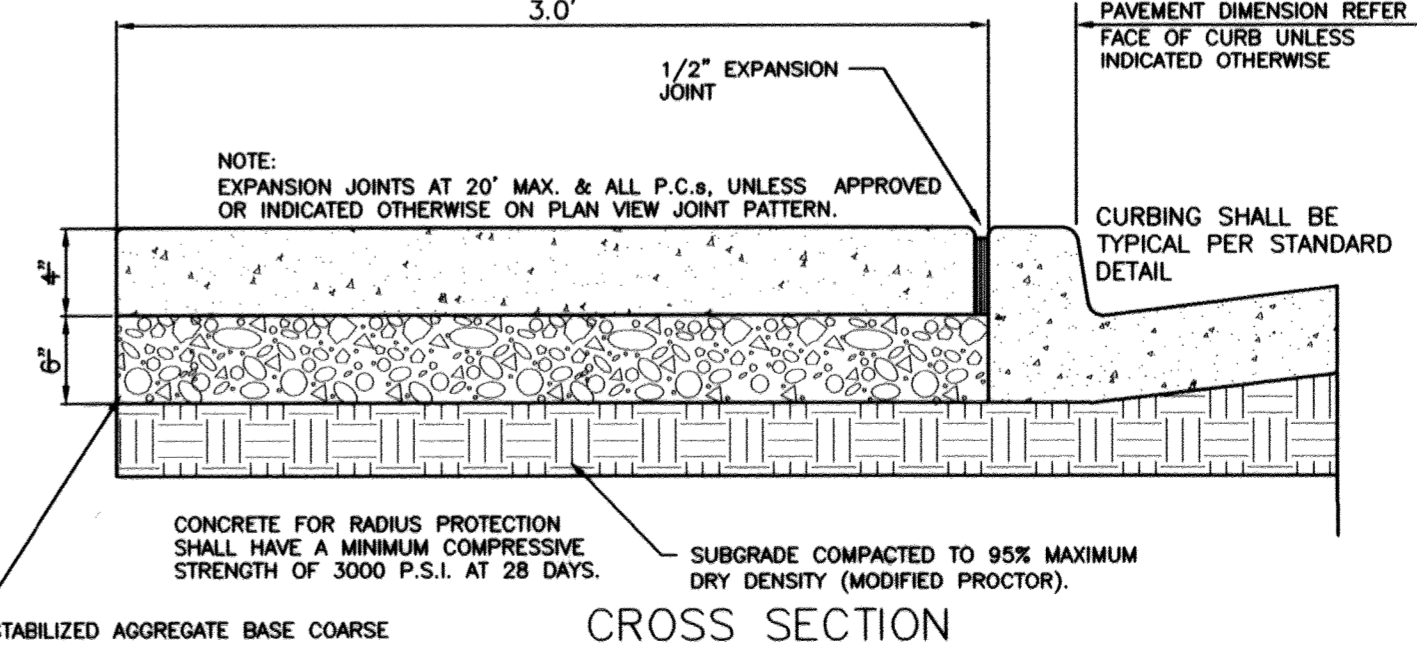
25 LANDSCAPE & IRRIGATION PROTECTOR
 NOT TO SCALE



20 CONCRETE PAVING DETAIL DRIVE THRU LANE
 NOT TO SCALE




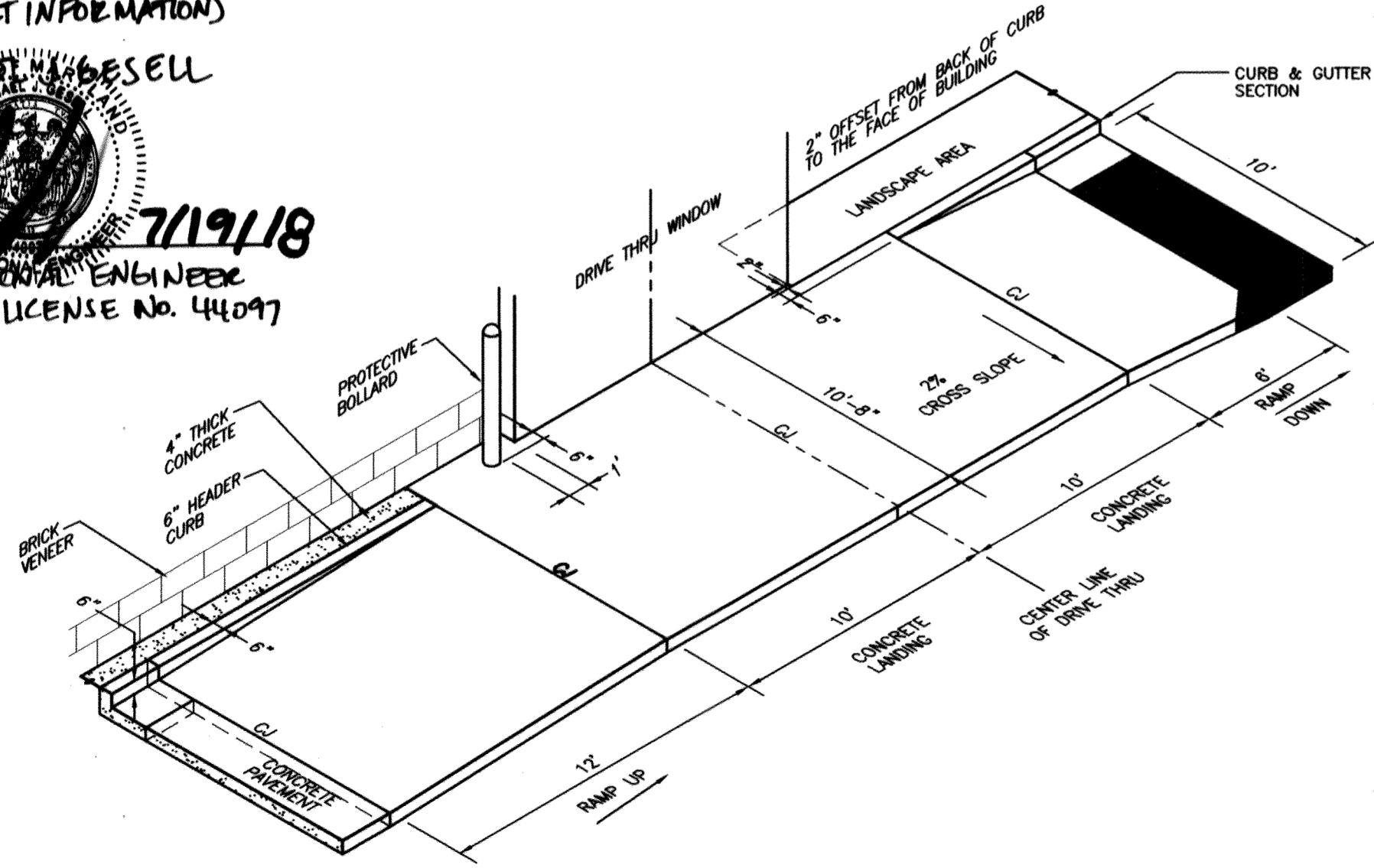
21 CONCRETE APRON @ DUMPSTER
 NOT TO SCALE





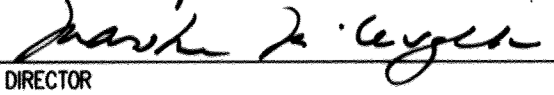
25 LANDSCAPE & IRRIGATION PROTECTOR
 NOT TO SCALE

I, MICHAEL J. GESELL, 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. 44097 EXP. DATE 01/11/17

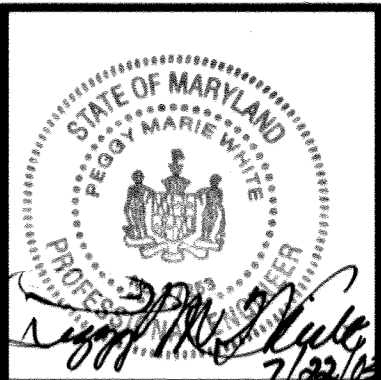
FOR REVISION 16 ONLY
 (AS-BUILT INFORMATION)
 MICHAEL J. GESELL
 PROFESSIONAL ENGINEER
 MARYLAND LICENSE NO. 44097




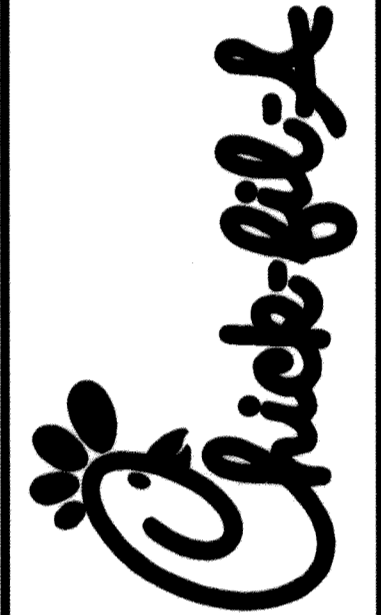
16 DRIVE-THRU ISOMETRIC VIEW
 NOT TO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 01/10/03 DATE
 8/12/03 DATE
 8/12/03 DATE
 DIRECTOR

The RBA ENGINEERS • ARCHITECTS • PLANNERS
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966
 RBA PROJ. NO.: M3080.00
 DRAWN BY: KL
 DESIGNED BY: EM
 CHECKED BY: JR



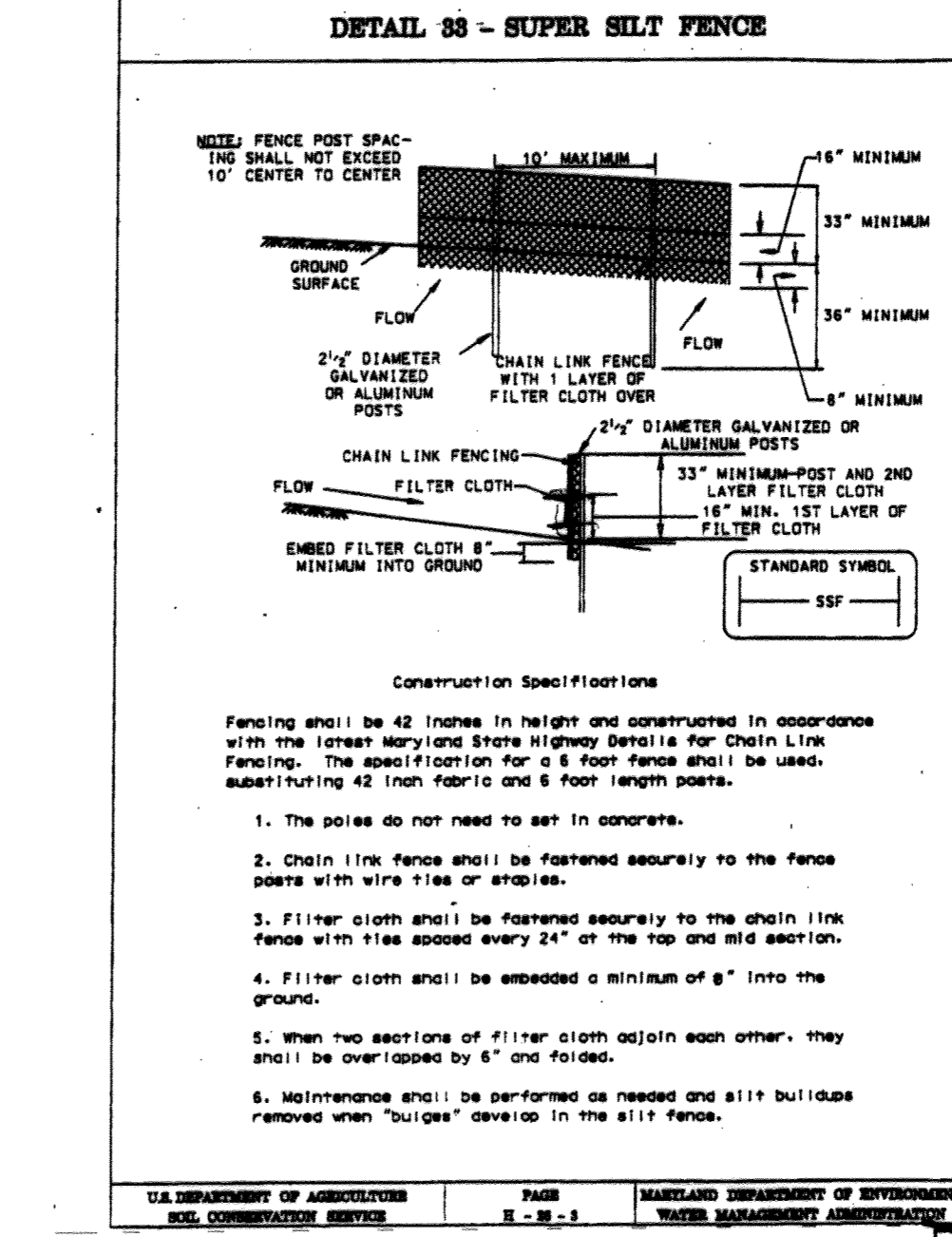
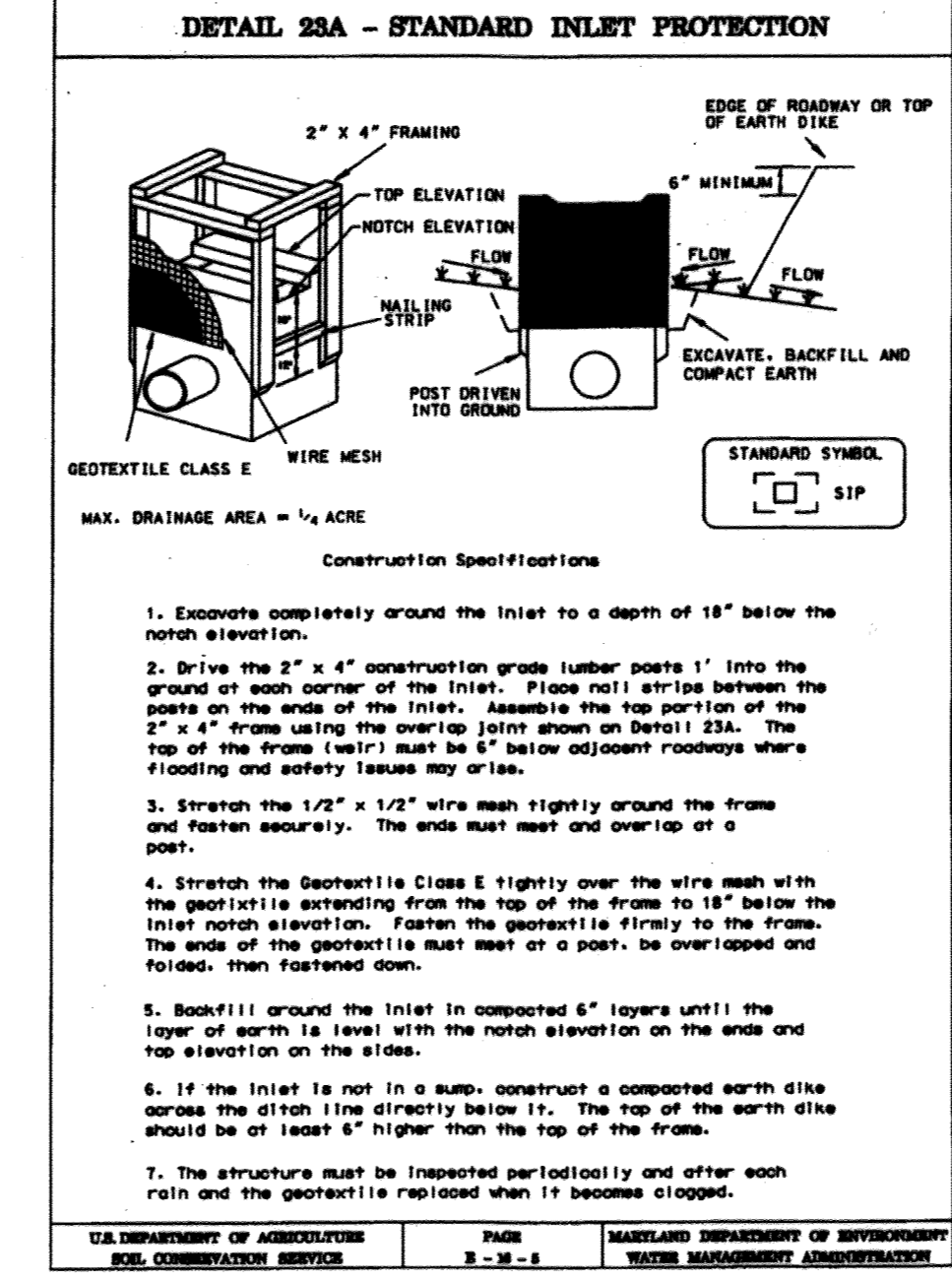
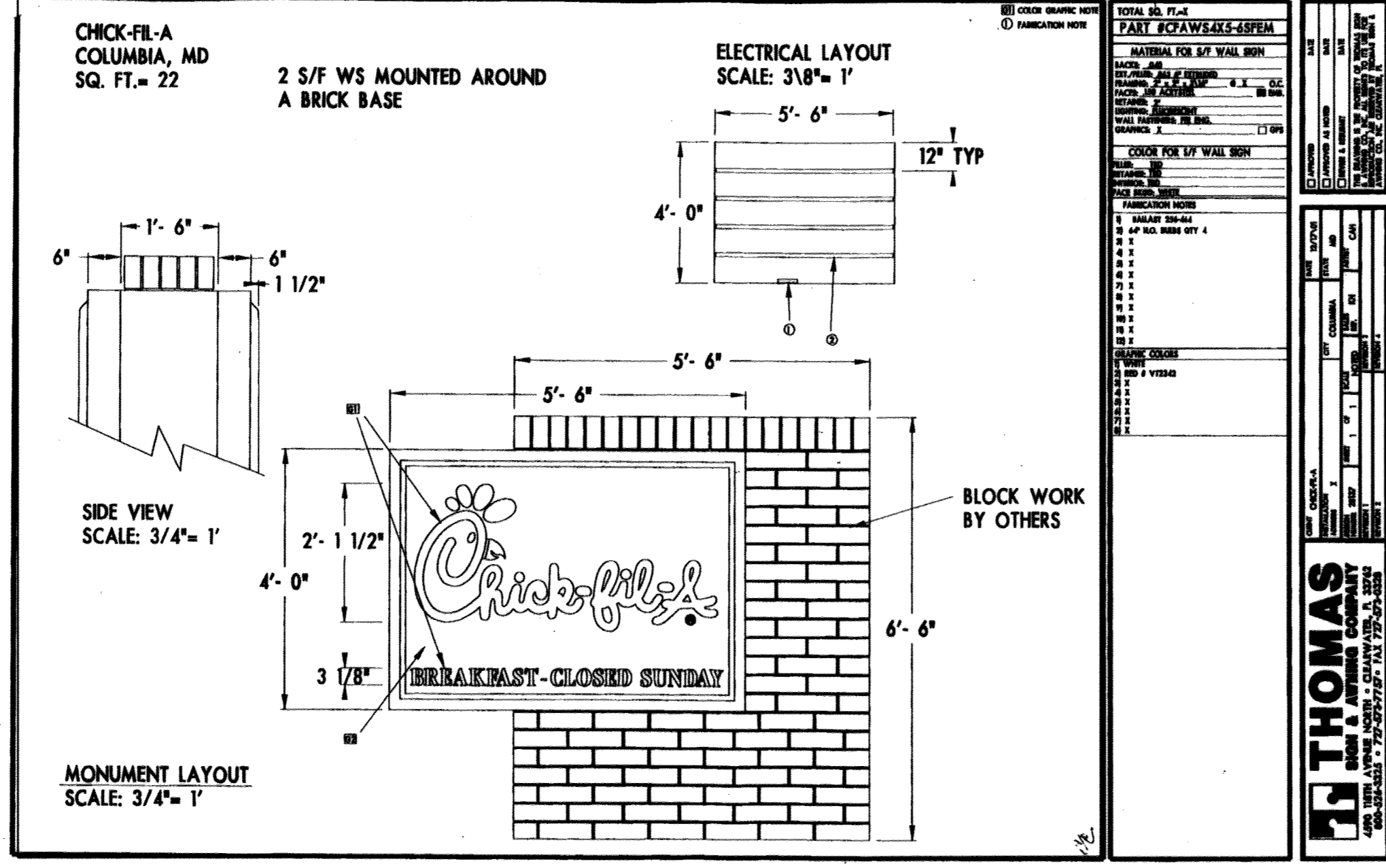
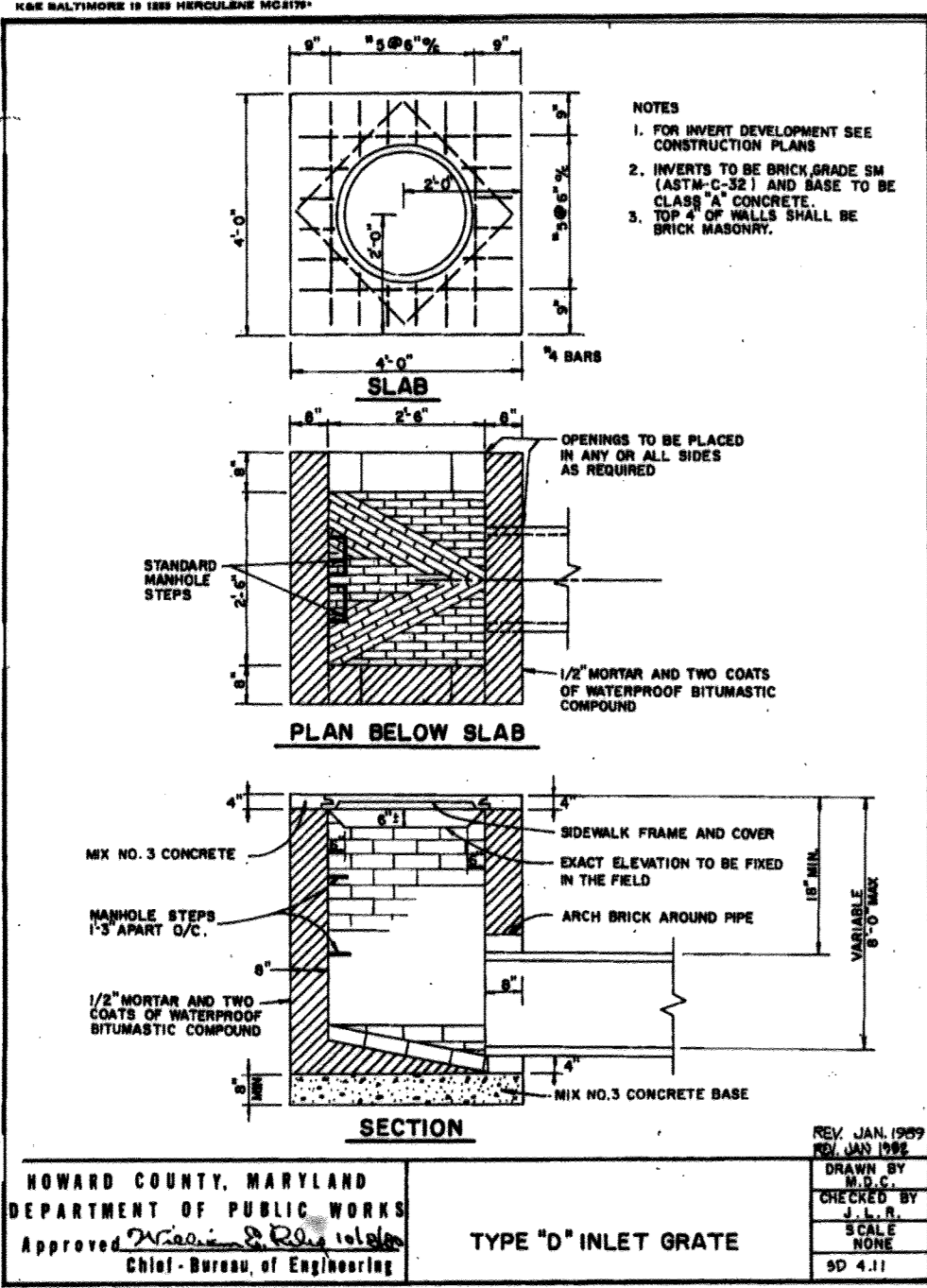
Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2898
 Telephone 404-765-8000



DOBBIN
 COMMERCIAL CENTER
 COLUMBIA, MD

Revision
 1 3/11/03
 2 7/30/03
 3 9/25/03
 4 3/21/04
 SHEET NO. 5 OF 17
 STANDARD DETAILS & AS-BUILT PLANS U.S.-1B

SHEET NO.
 C-5
 7 of 17



Reviewed for: **HOWARD** Name: *[Signature]* S.C.D.
 and meets Technical Requirements
 Signature: *[Signature]* Date: 8/14/03
 USDA, NATURAL RESOURCES CONSERVATION SERVICE

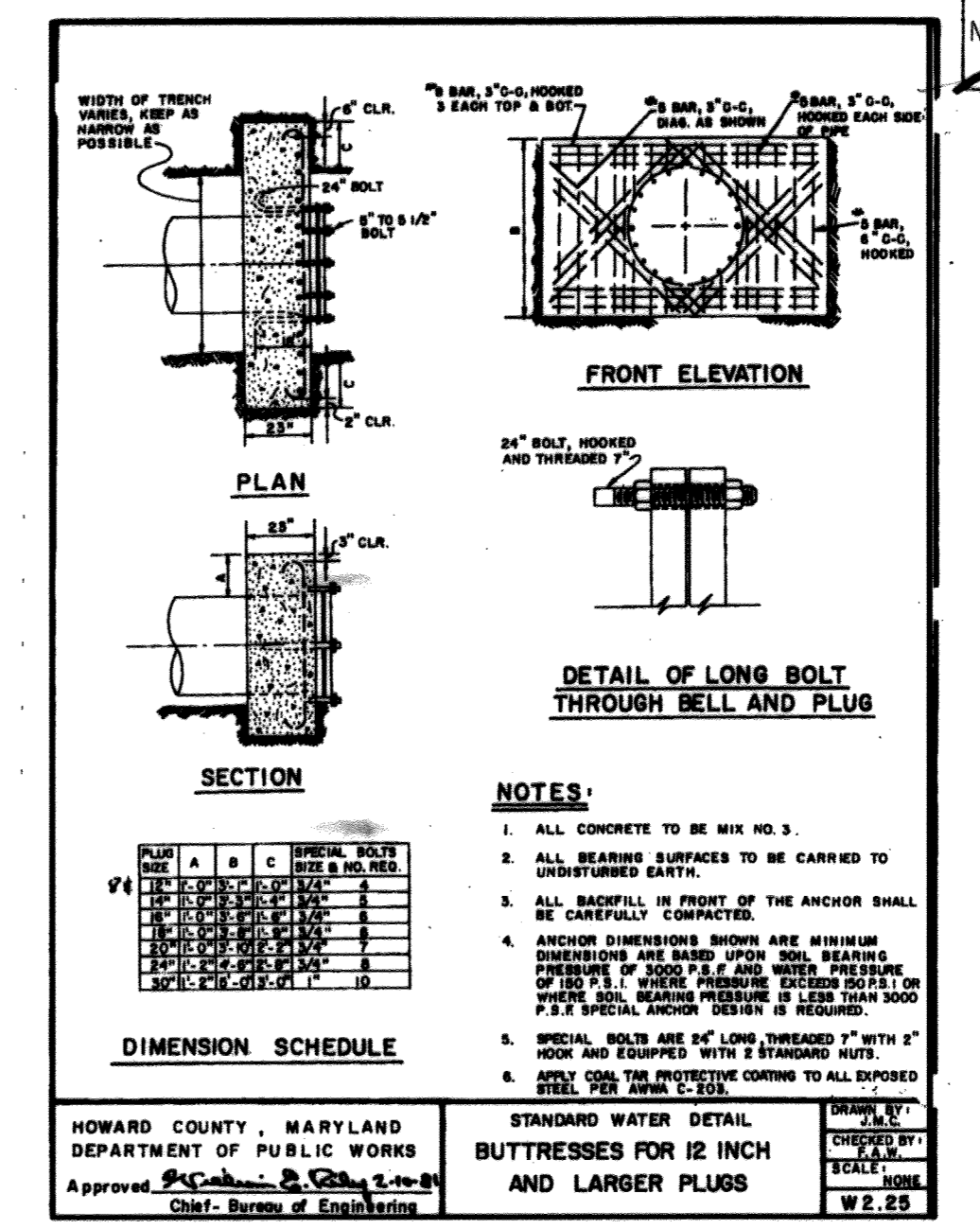
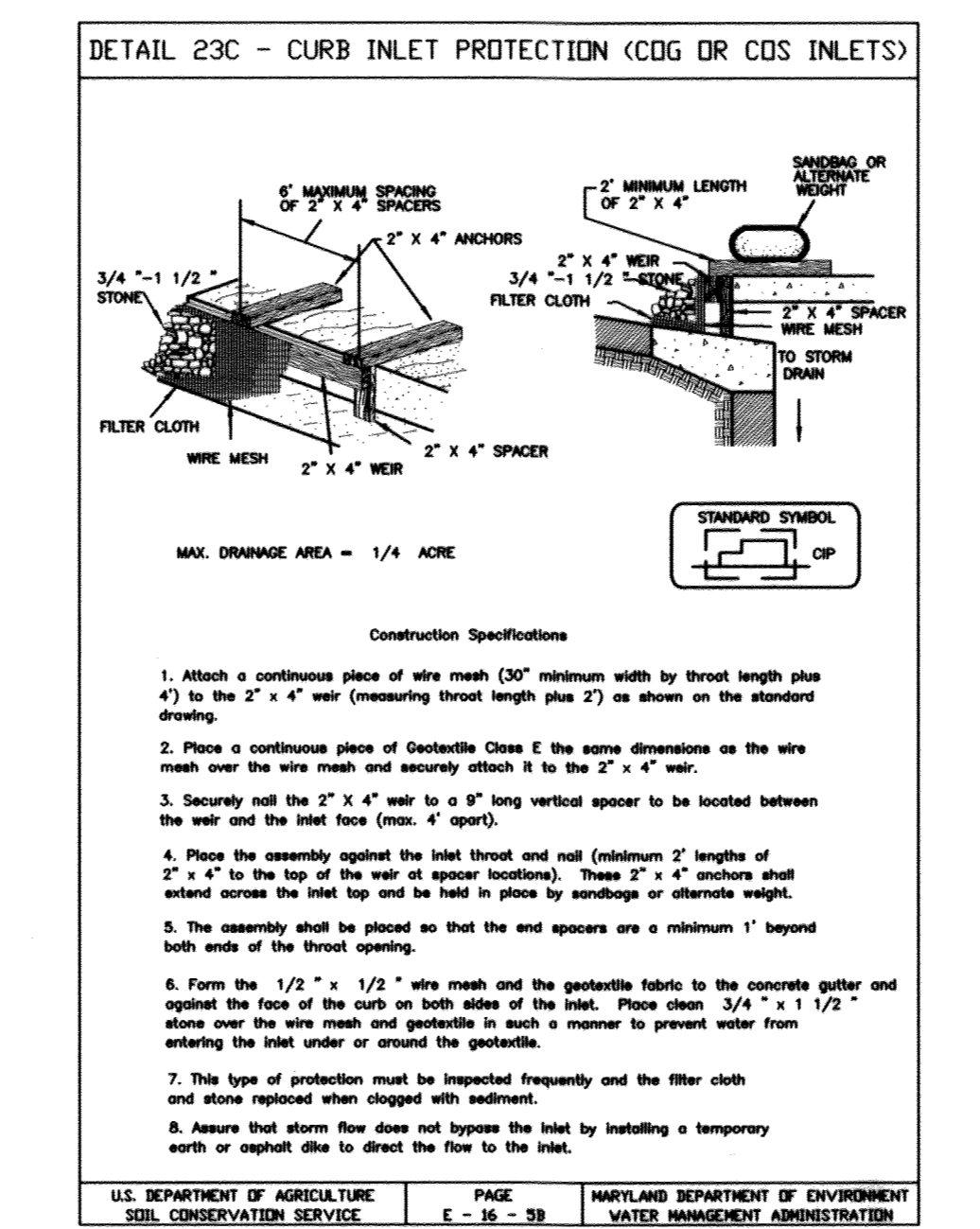
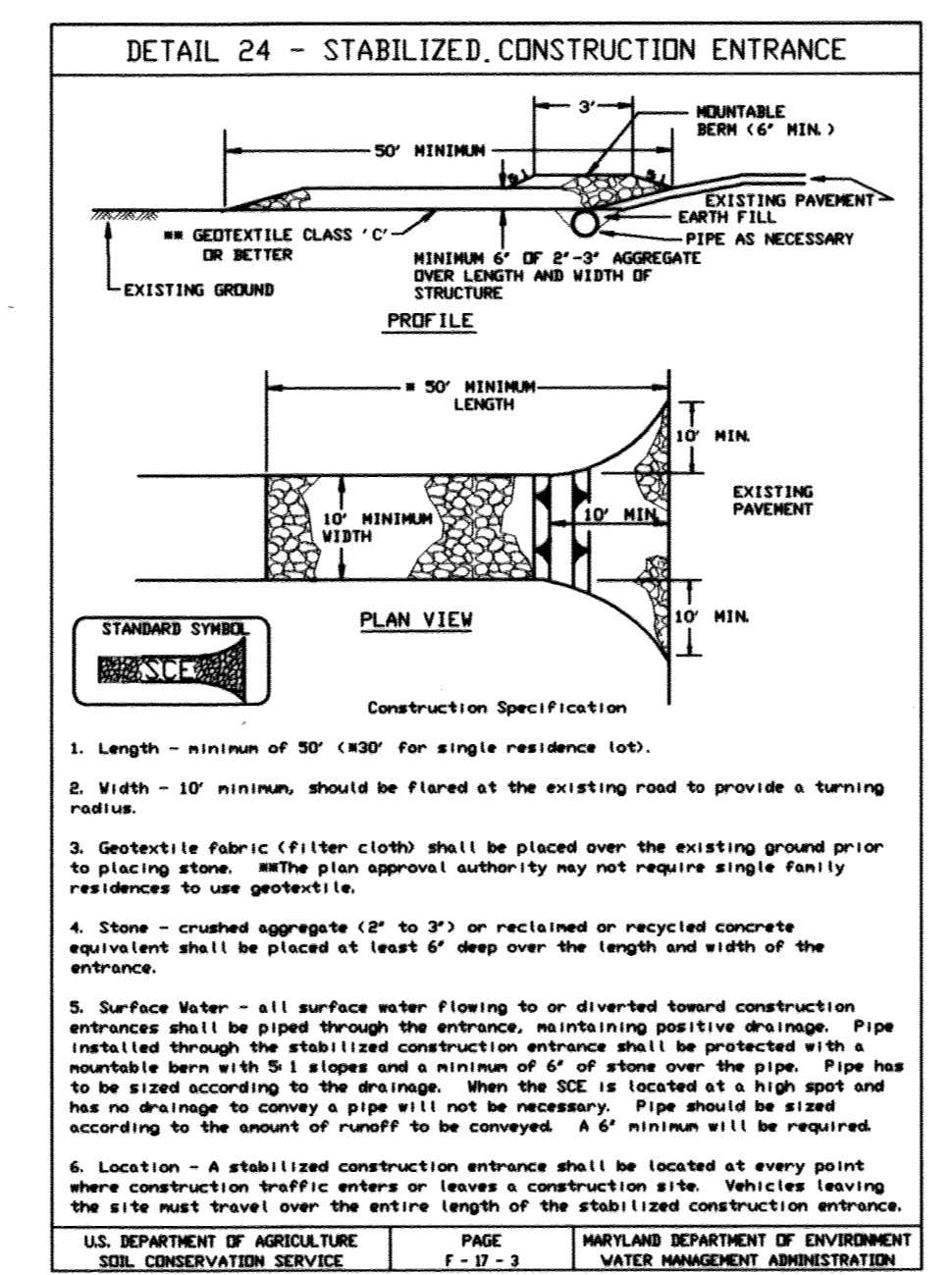
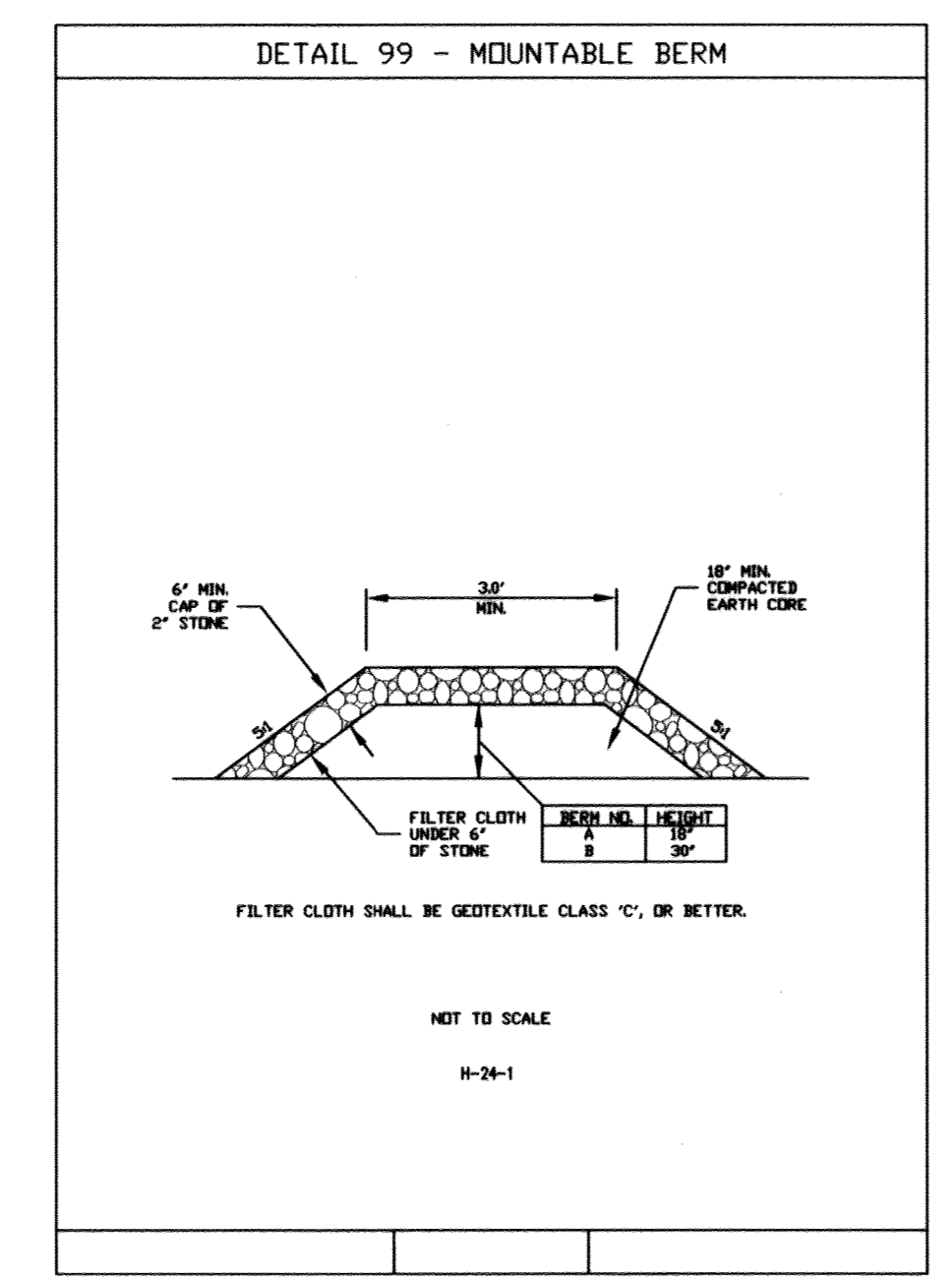
APPROVED PLAN REVISION
 SCID
 NRCS
 Technical Review Date

I, MICHAEL J. GEBEL, 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. 44097 EXPIRATION DATE 06/11/19

FOR REVISION 4 ONLY (AS-BUILT INFORMATION)

MICHAEL J. GEBEL
 PROFESSIONAL ENGINEER
 MARYLAND LICENSE NO. 44097

7/19/18



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved: *[Signature]* 8/14/03
 Howard S.C.D. Date

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: May 1, 2003

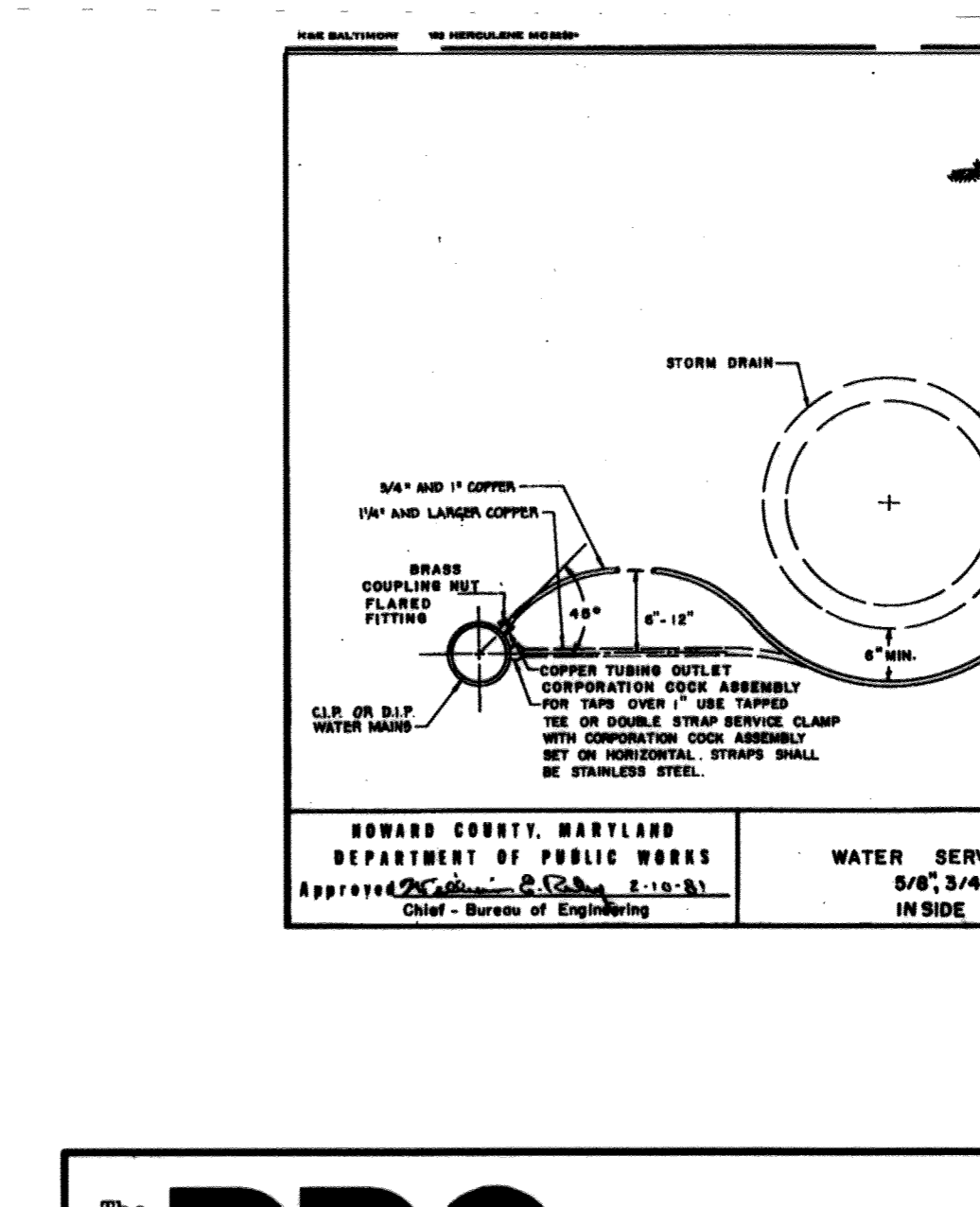
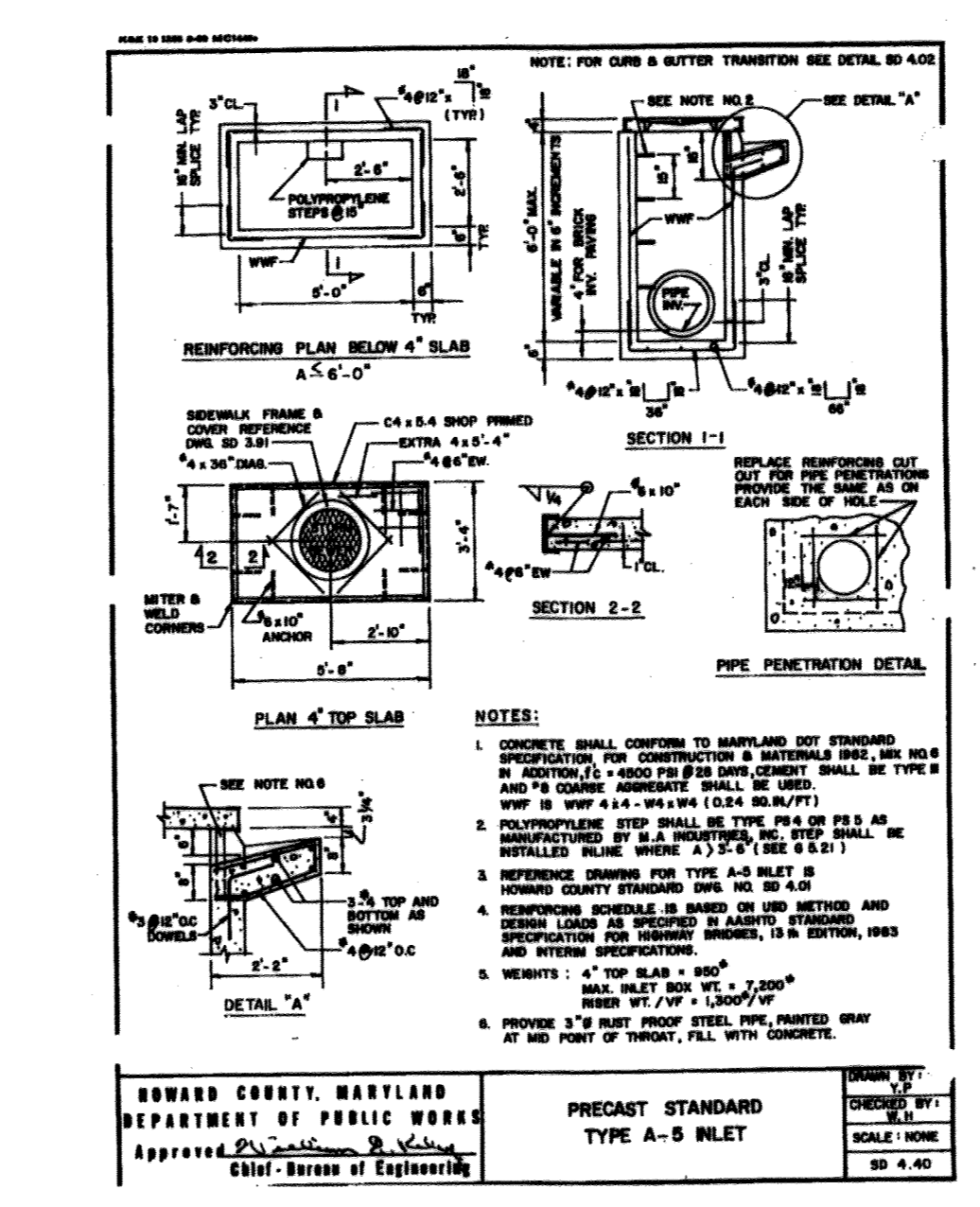
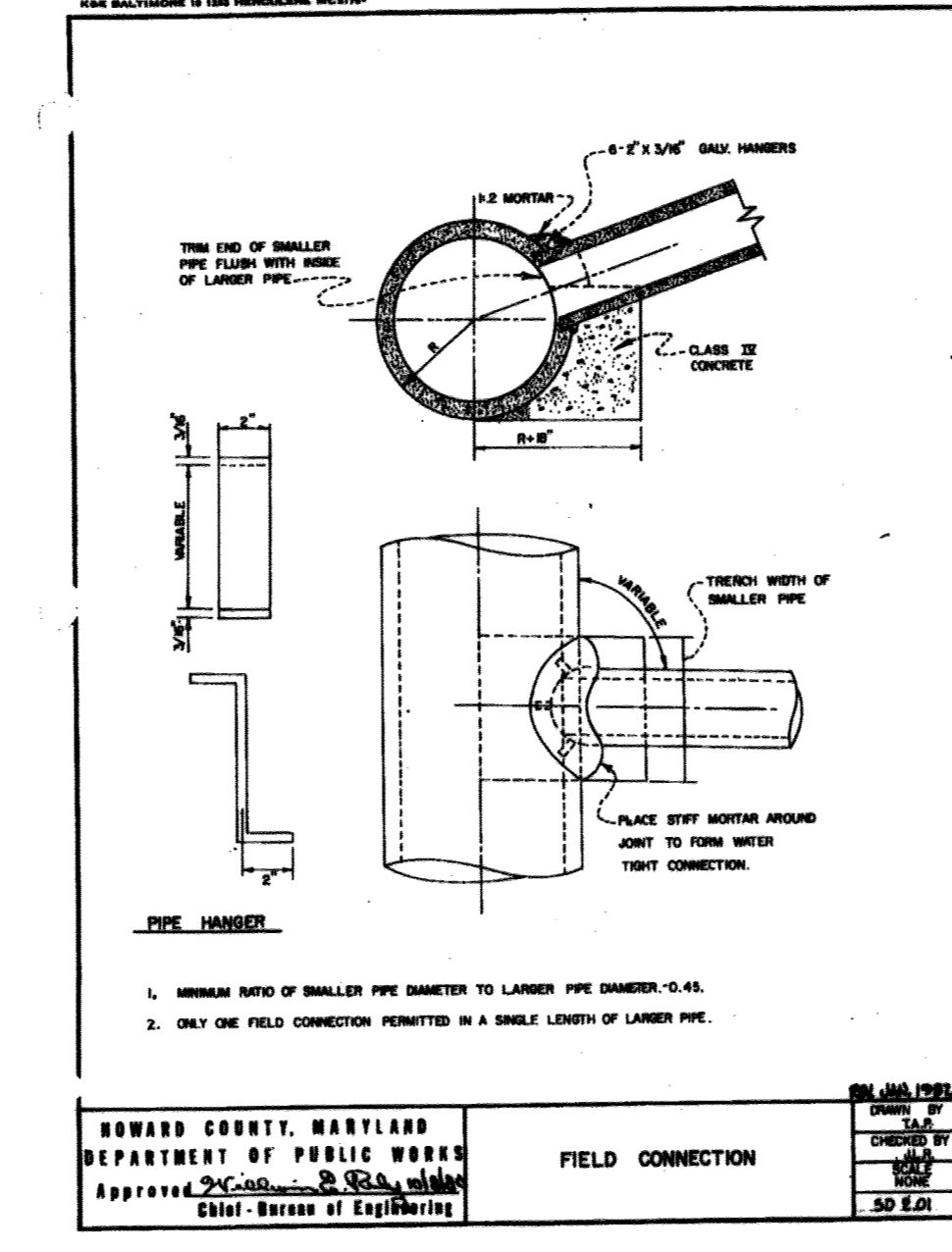
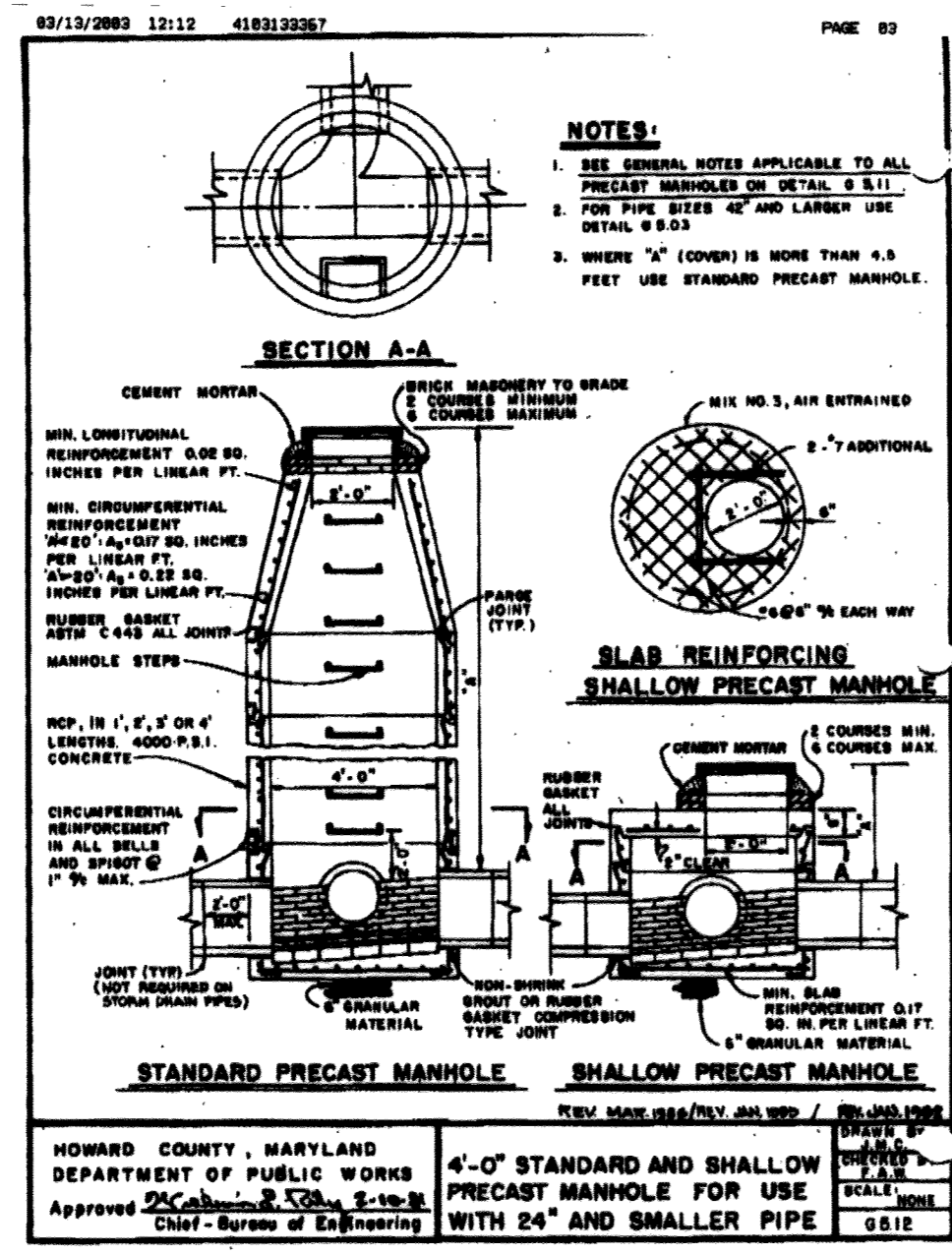
FOR REVISION 5 ONLY

BOHLER ENGINEERING
 901 DULANEY VALLEY RD. STE B01
 TOWSON, MD 21204
 Phone: 410-821-7900
 Fax: 410-821-7987
 MDE BOHLEREN6.COM

FOR REVISION 5 ONLY

MICHAEL J. GEBEL, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 44097, EXPIRATION DATE 06/11/17

9/29/16



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 05/10
 DATE

[Signature] 8/16/03
 DATE

[Signature] 2/12/03
 DATE

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 APPROVED: *[Signature]*
 Chief - Bureau of Engineering

4'-0" STANDARD AND SHALLOW PRECAST MANHOLE FOR USE WITH 24" AND SMALLER PIPE

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 APPROVED: *[Signature]*
 Chief - Bureau of Engineering

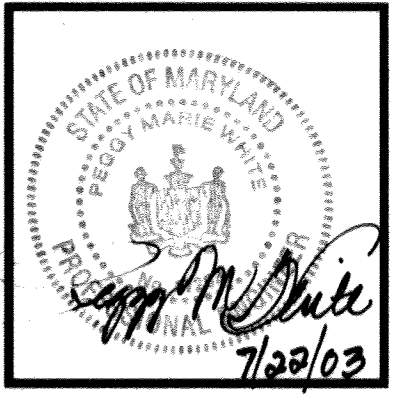
FIELD CONNECTION

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 APPROVED: *[Signature]*
 Chief - Bureau of Engineering

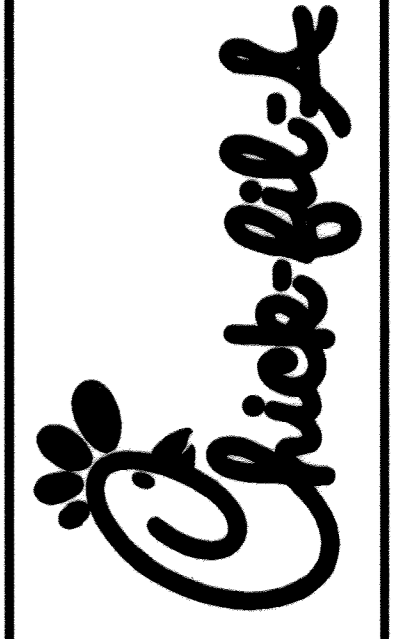
PRECAST STANDARD TYPE A-S INLET

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 APPROVED: *[Signature]*
 Chief - Bureau of Engineering

WATER SERVICE CONNECTION FOR 6", 8", 10", 11 1/2", & 12" INSIDE METER SETTINGS



Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 Telephone 404-765-8000



DOBBIN
 COMMERCIAL CENTER
 COLUMBIA, MD

CONSTRUCTION DETAILS

Revision 12/03/02

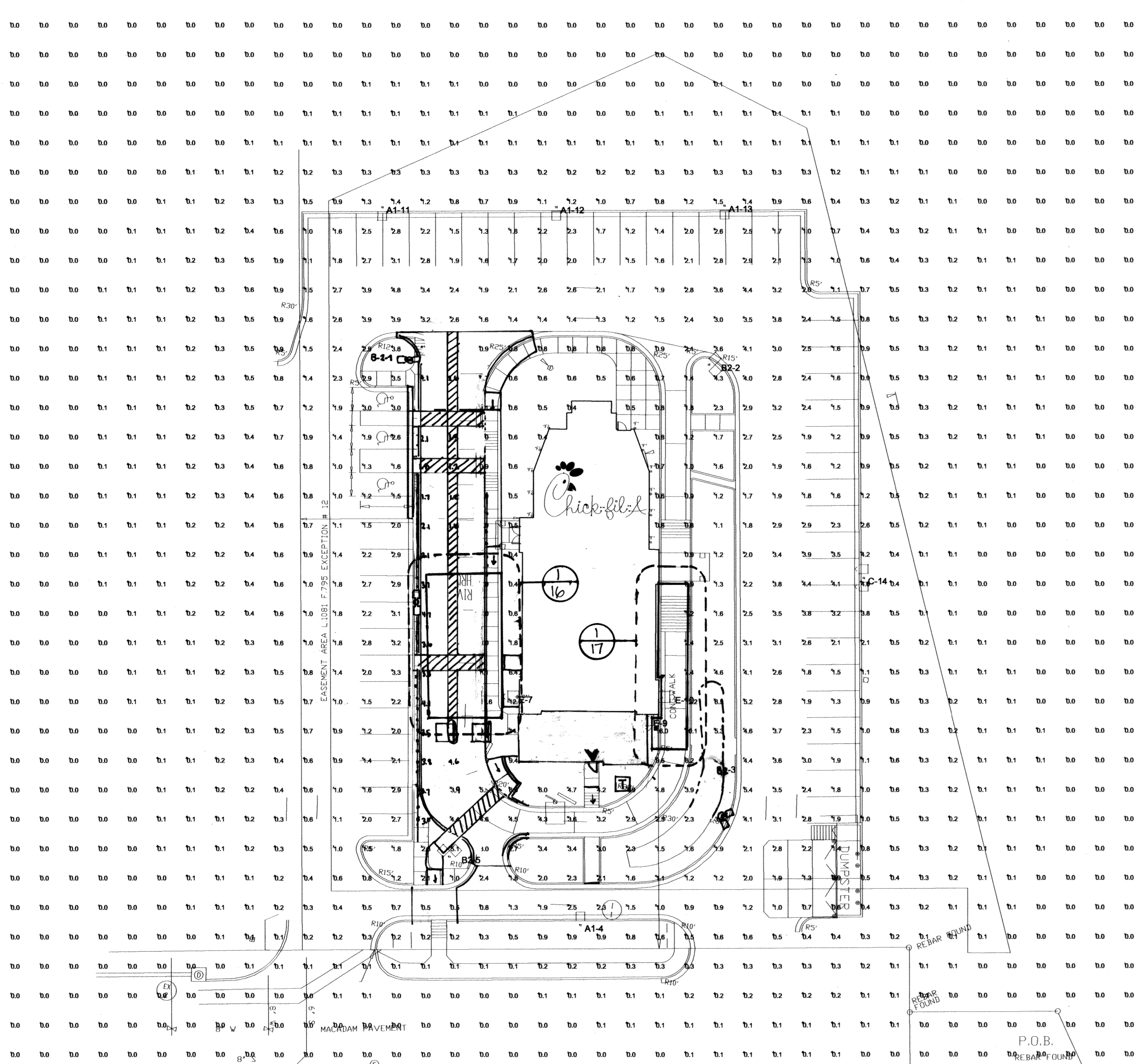
NO REVISIONS THIS SHEET

SHEET NO. C-6
 8 of 17

The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc. 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
 DRAWN BY: KL
 DESIGNED BY: EM
 CHECKED BY: JR

SDP-03-96



Plan View
Scale 1" = 20'

Area Lighting

KAD/KAC

Contour™

Intended Use: For parking areas, street lighting, walkways and car lots.

Features: Housing - Rugged, die-cast, soft-corner aluminum housing with 0.17" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame - KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded tubular silicone. KAC die-cast aluminum door frame has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone.

Optics - KAD reflectors are anodized hydroformed/segmented aluminum, field-interchangeable. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). Reflectors are field-interchangeable. KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical - Ballast is high-reactance, high power factor (70-150W HPS, 100M & 150M) or high power factor constant-voltage auto-transformer (175-400W MH & HPS). Ballast is copper wound and 100% factory tested.

Finish - Dark bronze polyester powder finish (DDB) is standard with other architectural colors available.

Socket - Porcelain, horizontally (optional) oriented mogul-base socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V, 4KV pulse rated.

Listings - UL Listed (standard), CSA Certified or NEMA Certified (see options). UL listed for wet locations.

For product details and performance data, see the OUTDOOR Lighting or the on-line website at www.lightway.com.

Example: KAD 400M R3 120 SPD08

Designation	Distribution	Voltage	Included	Mounting	Optional Accessories
High Pressure Sodium	KAD - Standard Reflector	120	120	SPD08 4" square pole arm (std)	Installed
KAD 100	R2 Type II roadway	200	200	SPD08 4" square pole arm (std)	120 Lamp included
KAD 100S	R3 Type II asymmetric	200	200	SPD08 4" square pole arm (std)	BY Double lens, 200, 240, 480V (std)
KAD 200	R4 Type IV forward throw	200	200	SPD08 4" round pole arm	PER NEMA twist-lock receptacle only (no photocell)
KAD 400	R5 Type V square sharp cutoff	400	400	SPD08 4" round pole arm	ONE Quartz restrike system (250W max. lamp not included)
Met Halide	R2 Type II roadway	120	120	WV004 4" wood pole or wall	ONE Power tray†
KAD 100M	Segmented Reflector	100	100	WV004 4" wood pole or wall	WTS Terminal block†
KAD 100M	R2 Type II asymmetric	100	100	WV004 4" wood pole or wall	ES Emergency circuit
KAD 100M	R3 Type II asymmetric	100	100	WV004 4" wood pole or wall	SCWA Super CWA Pulse Start Ballast (std with HPS, 100M or 175M)
KAD 200M	R4 Type IV forward throw	200	200	WV004 4" wood pole or wall	CSA CSA Certified
KAD 200M	R5 Type V square sharp cutoff	200	200	WV004 4" wood pole or wall	NEMA NEMA Certified (consult factory) † optional - consult catalog, see page 16
KAD 400M	R2 Type II roadway	400	400	WV004 4" wood pole or wall	Shionid Substrate†
KAD 400M	R3 Type II asymmetric	400	400	WV004 4" wood pole or wall	PE1 NEMA twist-lock PE (100-240V)
KAD 400M	R4 Type IV forward throw	400	400	WV004 4" wood pole or wall	PE2 NEMA twist-lock PE (240V)
KAD 400M	R5 Type V square sharp cutoff	400	400	WV004 4" wood pole or wall	PE3 NEMA twist-lock PE (480V)
KAC 100M	Segmented Reflector	100	100	WV004 4" wood pole or wall	PE4 NEMA twist-lock PE (277V)
KAC 100M	R2 Type II asymmetric	100	100	WV004 4" wood pole or wall	BE Shorting cap for PER option
KAC 100M	R3 Type II asymmetric	100	100	WV004 4" wood pole or wall	HC High pressure sodium (HPS, R2, R3, R4, R5, R2L, R3L)
KAC 200M	R4 Type IV forward throw	200	200	WV004 4" wood pole or wall	KADWB Vandal guard
KAC 200M	R5 Type V square sharp cutoff	200	200	WV004 4" wood pole or wall	KADWB Wireguard
KAC 400M	R2 Type II roadway	400	400	WV004 4" wood pole or wall	
KAC 400M	R3 Type II asymmetric	400	400	WV004 4" wood pole or wall	
KAC 400M	R4 Type IV forward throw	400	400	WV004 4" wood pole or wall	
KAC 400M	R5 Type V square sharp cutoff	400	400	WV004 4" wood pole or wall	

NOTES:

- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Optional accessories subject to availability. Consult factory.
- SPD08, WV004 or WV005 must be used when luminaires are ordered on CASH, DDB or DDB setting pattern.

Dimensions are shown in inches (parenthesized) unless otherwise noted.

Lightway Industries

FOR REVISION 5 ONLY
BOHLER ENGINEERING
901 WANLEY VALLEY RD STE 801
TOWSON, MD 21204
PHONE: 410-921-7900
FAX: 410-921-7907
MDE BOHLEEN6.COM

FOR REVISION 5 ONLY
MDE BOHLEEN6.COM
1/29/16

PROFESSIONAL CERTIFICATION
I, MICHAEL J. GIBELL, 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.
44097, EXP. DATE: 6/1/17

FOR REVISION 16 ONLY
(AS-BUILT INFORMATION)

MICHAEL J. GIBELL
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44097

I, MICHAEL J. GIBELL, 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. 44097, EXP. DATE: 6/1/17

CHICK-FILA HID

Standard Features:

- Construction - Heavy gauge aluminum, powder coated.
- Finish - Low gloss white epoxy powder coat.
- Reflector - High gloss white epoxy powder coat.
- Optics - Clear medium base 100 watt HID Halide.
- Ballast - 120V, 60Hz, 0.9PF.
- Mounting Hardware - Included with fixture.
- Listed - Wet Location.

Options:

- Not all options available on all wattages. Please call for more information.

Lightway Industries

- NOTES**
- All readings are based on a L.L.F. of .72 at grade.
 - Refer to "luminaire locations" for mounting heights.
 - Readings are shown as footcandles.
 - All fixtures and poles to be dark bronze.
 - For pole base detail 111C-4, sheet C-4. Pole height to be 15 feet.
- These lighting calculations are not a substitute for independent engineering analysis of lighting system suitability and safety.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: May 1, 2003

LUMINAIRE LOCATIONS													
No.	Label	Location			MH	Orientation	Tilt	Aim					
		X	Y	Z				X	Y	Z			
1	B2	65.8	208.0	25.0	25.0	268.5	0.0						
2	B2	159.2	205.3	25.0	25.0	90.8	0.0						
3	B2	164.2	59.7	25.0	25.0	89.0	0.0						
4	A1	115.3	14.6	25.0	25.0	0.0	0.0	115.3	17.6	0.0			
5	B2	70.6	37.9	25.0	25.0	0.0	0.0						
6	B2	68.8	123.1	25.0	25.0	269.0	0.0						
7	E	92.5	92.4	14.0	14.0	-90.0	0.0	92.5	92.4	0.0			
8	E	98.0	84.6	14.0	14.0	180.0	0.0	98.0	84.6	0.0			
9	E	138.4	84.4	14.0	14.0	180.0	0.0	138.4	84.4	0.0			
10	E	143.9	92.3	14.0	14.0	90.0	0.0	143.9	92.3	0.0			
11	A1	47.8	258.9	25.0	25.0	180.7	0.0	47.7	258.9	0.0			
12	A1	107.1	258.9	25.0	25.0	180.0	0.0	107.1	258.9	0.0			
13	A1	164.5	258.3	25.0	25.0	180.0	0.0	164.5	258.3	0.0			
14	C	211.9	132.7	25.0	25.0	180.0	0.0						

LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens LLF
□	A1	4	KAC 250M R4	AREA LIGHT W/TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION.	93042103.IES	20000 0.72
◇	B2	5	KAC 250M R4	AREA LIGHT W/TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION.	93042103.IES	20000 0.72
□	E	4	CFA100MH	130 WATTS/120V MOUNTED 13'-4" ABOVE F.F. TO CENTERLINE OF FIXTURE.	MXR100-U-MED	91102805.IES	19500 0.72
□	C	1	KAC 250M R4	AREA LIGHT W/TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION.	93042103.IES	20000 0.72

STATISTICS					
Description	Avg	Max	Min	Max/Min	Avg/Min
Spill Light Summary	0.9 fc	16.0 fc	0.0 fc	N/A	N/A
Main Lot Parking	2.6 fc	16.0 fc	0.4 fc	40:1	6.6:1

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael J. Gibell 05/10/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION, MJK DATE

Cinda Krometta 8/12/03
CHIEF, DIVISION OF LAND DEVELOPMENT, HSB DATE

Mark D. Gygell 5/12/03
DIRECTOR DATE

7. AS-BUILT PLANS 9-25-2020

Series 97-138

5200 Buffington Road
Atlanta, Georgia 30349-2898
Telephone 404-765-8000

DOBBIN COMMERCIAL CENTER
COLUMBIA, MD

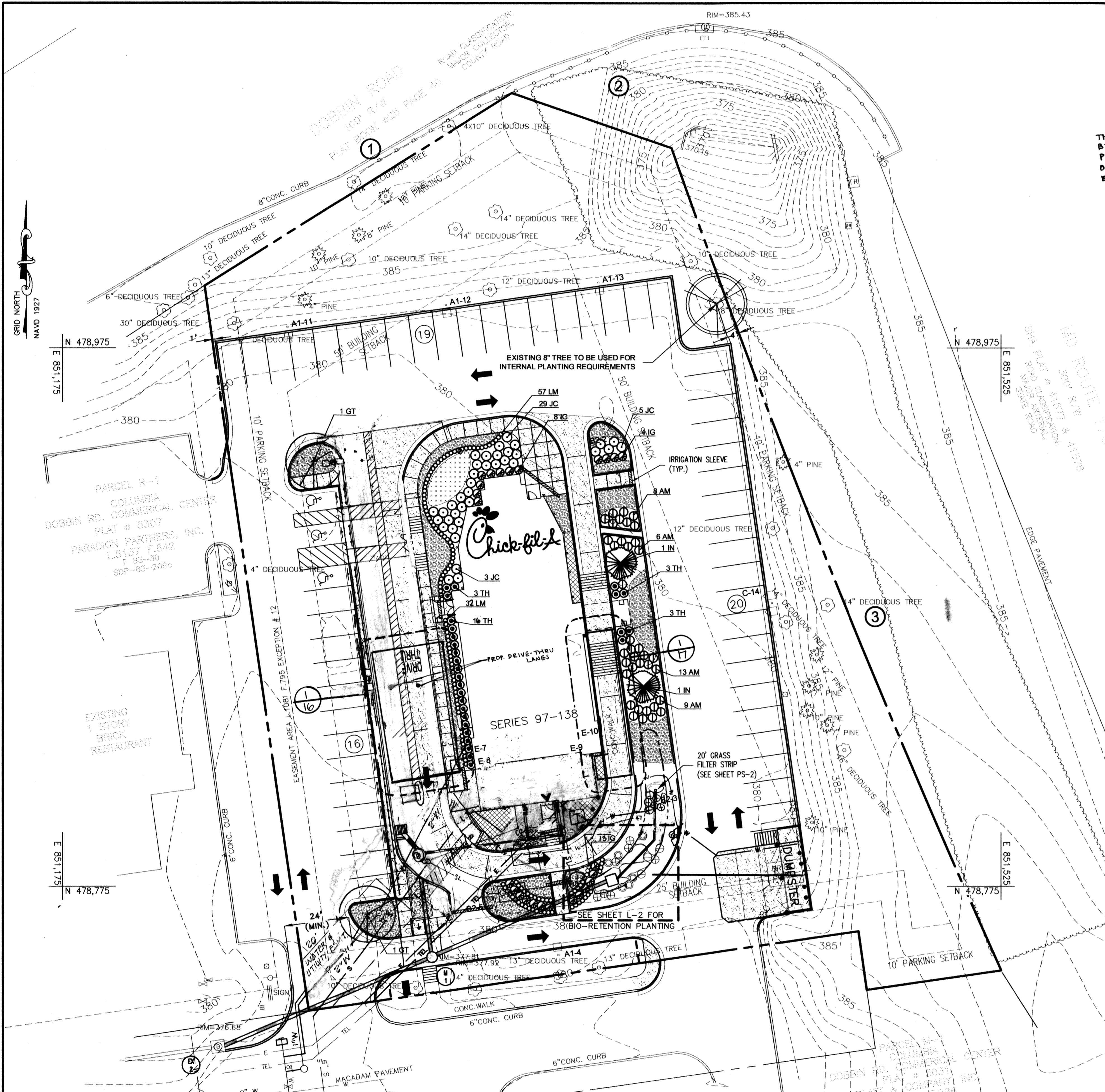
5/31/04 NO REVISIONS THIS SHEET
NO REVISIONS THIS SHEET
NO REVISIONS THIS SHEET

Lighting & Photometric Plan & AS-BUILT PLANS 6/15/18
ADD ADDITIONAL DRIVE - THRU LAKE AND 757 R.F. BUILDING ADDITION

Edition Date: 01/21/03
Project Date: 12/03/02
Revision: 12/03/02
ALL SITE LIGHTING REVISED
REVISED LIGHTING PER REUSE COMMENTS
7/30/03
9/25/03
NO REVISIONS THIS SHEET

Sheet Title: LIGHTING & PHOTOMETRIC PLAN & AS-BUILT PLANS 6/15/18

SHEET NO. C-7 9 of 17



FOR REVISION 5 ONLY
Mr. W
 9/29/16
 PROFESSIONAL CERTIFICATION
 I, MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 6/19/17

FOR REVISION 5 ONLY
 BOHLER ENGINEERING
 901 DULANEY VALLEY RD STE B01
 TOWSON, MD 21284
 PHONE: 410-821-7100
 FAX: 410-821-7987
 MDC@BOHLERENG.COM

I, MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 6/19/17

FOR REVISION 6 ONLY
 (AS-BUILT INFORMATION)
 MICHAEL J. GESELL
Mr. W
 9/29/16
 PROFESSIONAL ENGINEER
 MARYLAND LICENSE NO. 44097

SITE PLANT SCHEDULE

Key	Quan	Name	Size	Remarks
AM	36	Azalea 'Mothers Day' Mothers Day Azalea	18"-24" SPD.	SPACE AS SHOWN
GT	2	Gleditsia tri. var. inermis 'Shademaster' Shademaster Honeylocust	2" CAL.	12'-14" HT., FULL
	205	Hypericum 'Hidcote' Hidcote Hypericum	12"-18" HT.	1 GAL., 24" O.C.
IG	25	Ilex Glabra 'Compacta' Dwarf Inkberry	18"-24" SPD.	SPACE AS SHOWN
IN	2	Ilex X 'Nellie R. Stevens' Nellie R. Stevens Holly	7'-8" HT.	INTERNAL PARKING REQ'S SCHEDULE B
JC	37	Juniperus Conferita 'Blue Pacific' Blue Pacific Juniper	18"-24" SPD.	SPACE AS SHOWN
LM	13	Liriodendron 'Big Blue' Big Blue Liriodendron	1 GAL.	12" O.C.
TH	25	Taxus X Media 'Hicksii' Hick's Yew	3'-4" HT.	SPACE AS SHOWN
	1,500	Seasonal annuals		

BIO-RETENTION PLANT SCHEDULE (DETAIL ON L-2)

Key	Quan	Name	Size	Remarks
✓	58	Eupatorium perpurea Joe Pye Weed	1 QT.	24" O.C.
✓	77	Iris versicolor Blue Flag	1 QT.	24" O.C.
IV	14	Ilex verticillata Winterberry	2'-3" HT.	
LB	2	Lindera bezoin Spicebush	2'-3" HT.	
	45	Lobelia cardinalis Cardinal Flower	1 QT.	24" O.C.
MC	6	Myrica pennsylvanica Northern Bayberry	2'-3" HT.	
✓	66	Rudbeckia lanciniata Tall Coneflower	1 QT.	24" O.C.

SCHEDULE A - PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	E	NONE
Linear Feet of Roadway Frontage/Perimeter	362'	0
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe Below if Needed)	YES	N/A
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet) (Describe Below if Needed)	YES	N/A
Number of Plants Required		
Shade Trees	9	N/A
Evergreen Trees	0	
Shrubs	91	
Number of Plants Provided		
Shade Trees	0	
Evergreen Trees	0	
Other Trees (2:1 substitution)	0	N/A
Shrubs (10:1 substitution)	0	

Comments: Existing mature trees are sufficient for credit towards shade tree req's. Parking lot is 3' below adjacent MD 175 and Dobbin Road which counts towards req. shrub planting.

Note: Complex projects may require expansion of the schedule to accommodate multiple land uses on-site or on adjacent properties.

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	54
Number of Trees Required (1 per 20 Spaces)	3
Number of Trees Provided	3
Shade Trees	1
Evergreen Trees (2:1 substitution)	2
Existing	1
Number of Islands Required (1 per 20 Spaces)	3
Number of Islands Provided (200 SQ. FT. EACH)	8
Proposed	7
Existing	1

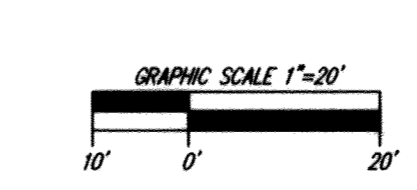
REQUIRED BUFFER PLANTING TABLE

Property Line	Buffer Type	L.F.	Planting Required	Planting Provided
①	E Shade Tree 1:40 Shrubs 1:4	135	3 Shade Trees 34 Shrubs	3 (Existing) 0 (3' Grade Change)
②	E Shade Tree 1:40 Shrubs 1:4	63	2 Shade Trees 16 Shrubs	2 (Existing) 0 (3' Grade Change)
③	E Shade Tree 1:40 Shrubs 1:4	164	4 Shade Trees 41 Shrubs	4 (Existing) 0 (3' Grade Change)

APPROVED
 PLANNING BOARD
 of HOWARD COUNTY
 DATE May 1, 2003

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 18.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
T.O.M. (NAMES) 7/24/03 (DATE)

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Mike O'Donnell 05/10/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cindy Harvath 8/12/16
 CHIEF, DIVISION OF LAND DEVELOPMENT
Marsha K. Leavelle 8/12/16
 DIRECTOR



The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc.
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21048 (410) 312-0966

RBA PROJ. NO.: M3080.00
 DRAWN BY: JBPS
 DESIGNED BY: JB
 CHECKED BY: SK

Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 Telephone 404-765-8000

7. AS-BUILT PLANS 9-25-2020

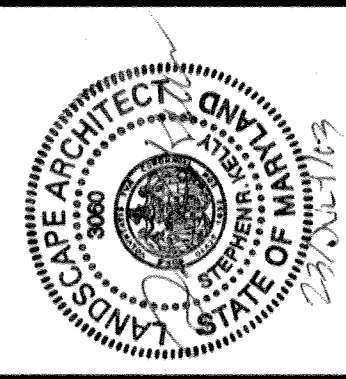
Chick-fil-A
 U.S. AS-BUILT PLANS 6/15/17

DOBBIN COMMERCIAL CENTER
 COLUMBIA, MD

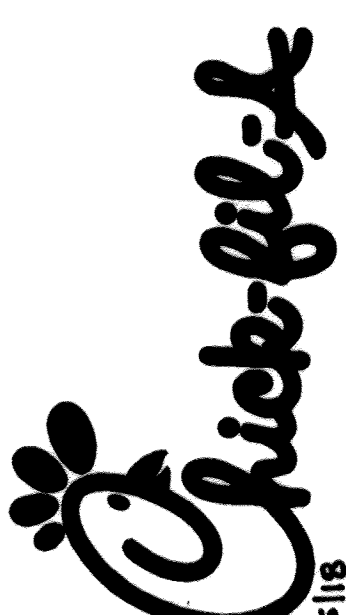
LANDSCAPE PLAN 6.03 (REVISED 8/12/16)
 SHEET TITLE: LANDSCAPE PLAN 6.03 (REVISED 8/12/16)

Edition Date: 01/21/03
 Project Date: 12/03/02
 Revision
 # Date
 1 3/14/03
 2 7/30/03
 3 9/26/05
 4 3/17/16

SHEET NO. **L-1**
 10 of 17



Series 97-138
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 Telephone 404-765-8000



DOBBIN
 COMMERCIAL CENTER
 COLUMBIA, MD

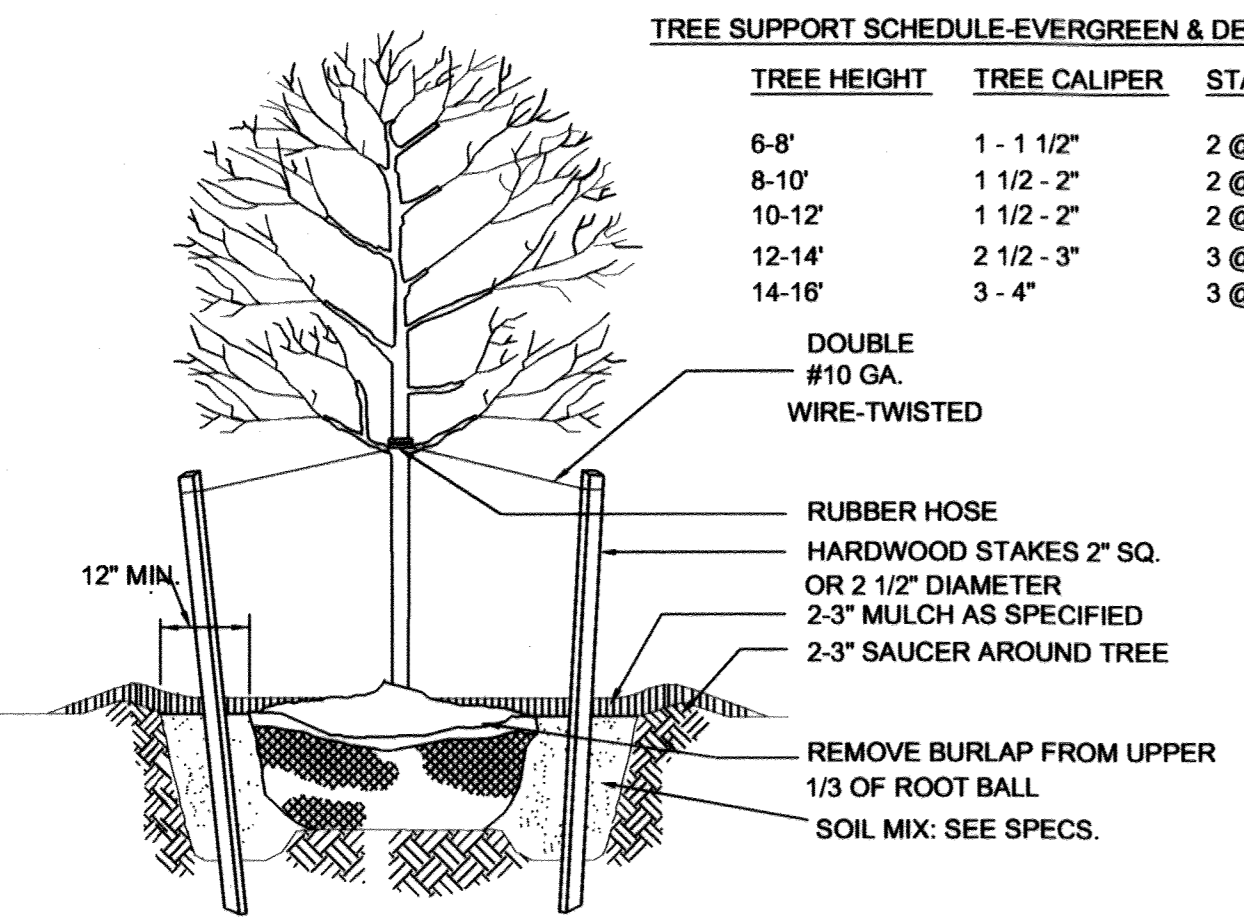
5 ADDITIONAL DRIVE-THRU LANE AND 13.5K
 LANDSCAPE DETAILS BUILDING ADDITION G. AS-BUILT PLANS 0118

Sheet Title: LANDSCAPE DETAILS BUILDING ADDITION G. AS-BUILT PLANS 0118

SDP-08-96

TREE SUPPORT SCHEDULE-EVERGREEN & DECIDUOUS

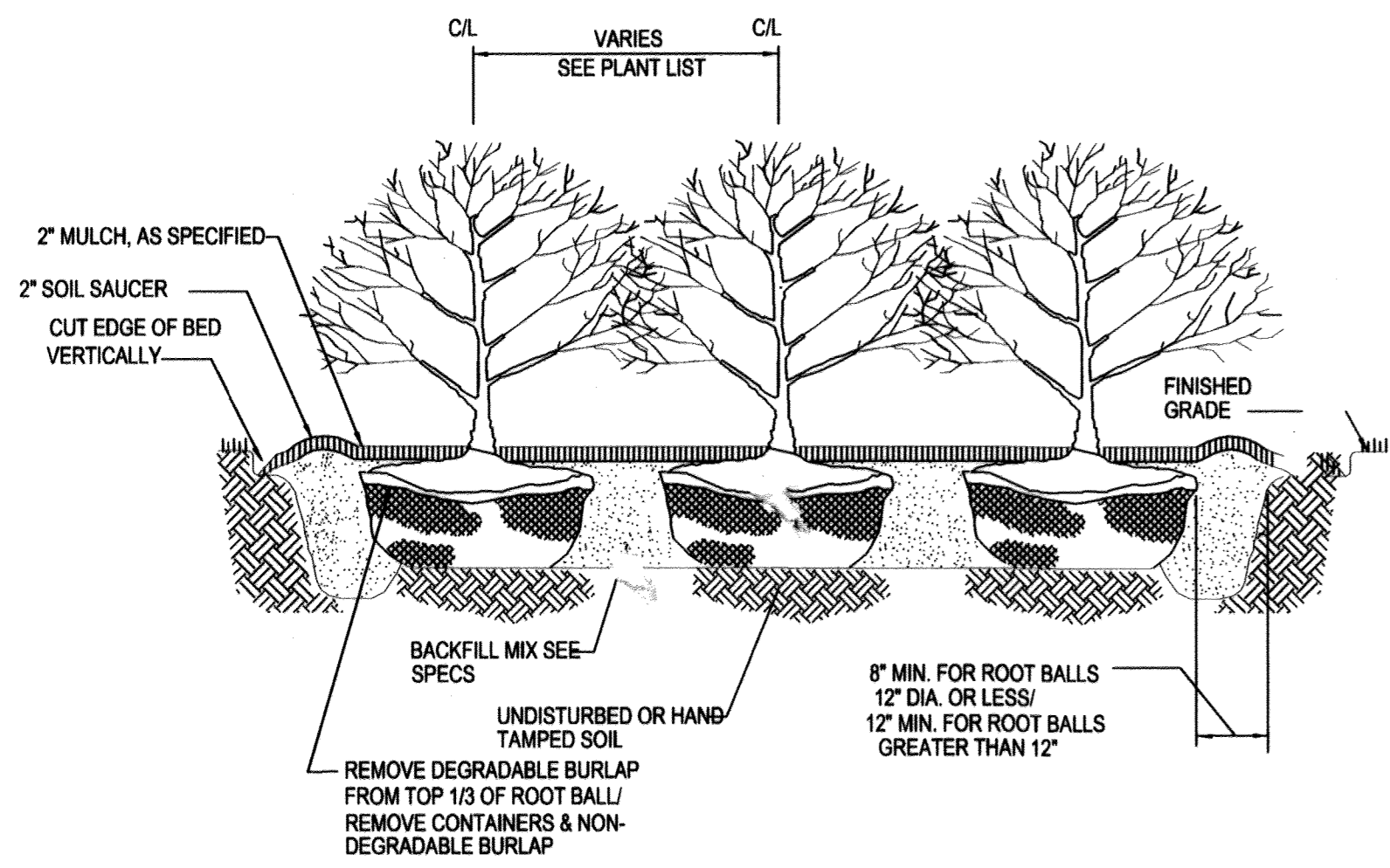
TREE HEIGHT	TREE CALIPER	STAKE
6-8'	1 - 1 1/2"	2 @ 5'
8-10'	1 1/2 - 2"	2 @ 5'
10-12'	1 1/2 - 2"	2 @ 7 - 8'
12-14'	2 1/2 - 3"	3 @ 5'
14-16'	3 - 4"	3 @ 8'



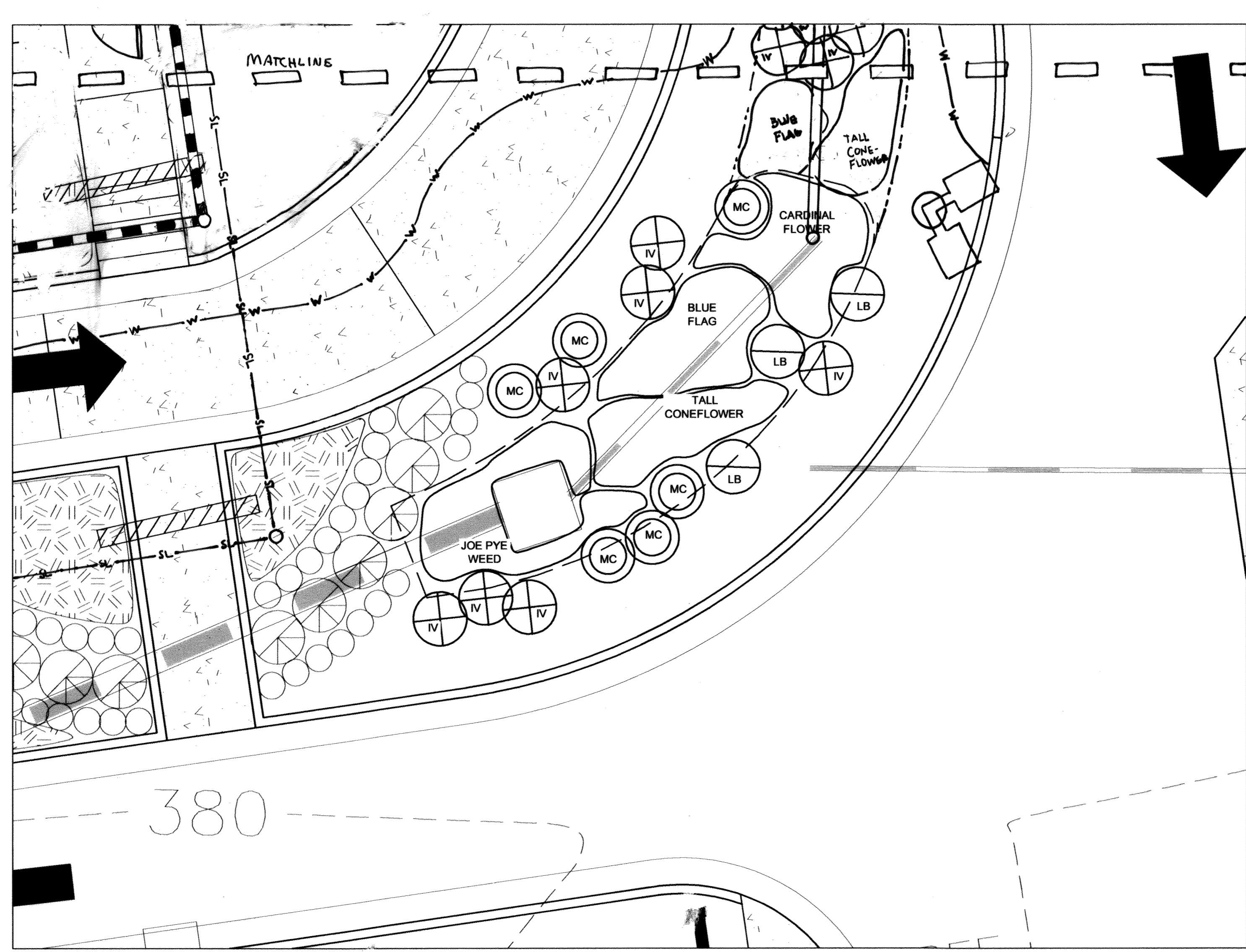
1. REMOVE DEAD OR BROKEN BRANCHES, RETAINING NATURAL SHAPE.
2. NEVER CUT CENTRAL LEADER.
3. SET TREE WITH 1/6 ROOT BALL ABOVE GRADE.
4. STAKES, WIRES & HOSES SHALL BE REMOVED AFTER ONE YEAR.
5. SCARIFY SUBSOIL TO A MIN. 4" DEPTH.
6. PLACE STAKES PARALLEL TO WALKS.

1 TREE PLANTING
 SCALE: N.T.S.

- NOTES:
1. 1/6 OF ROOT BALL TO BE SET ABOVE GRADE
 2. SCARIFY SIDES OF PIT TO 4"
 3. FOR CONTAINER MATERIAL, SLASH ROOT BALL FROM TOP TO BOTTOM, 1" DEEP MIN.
 4. REMOVE DEAD OR BROKEN BRANCHES, RETAIN NATURAL FORM.

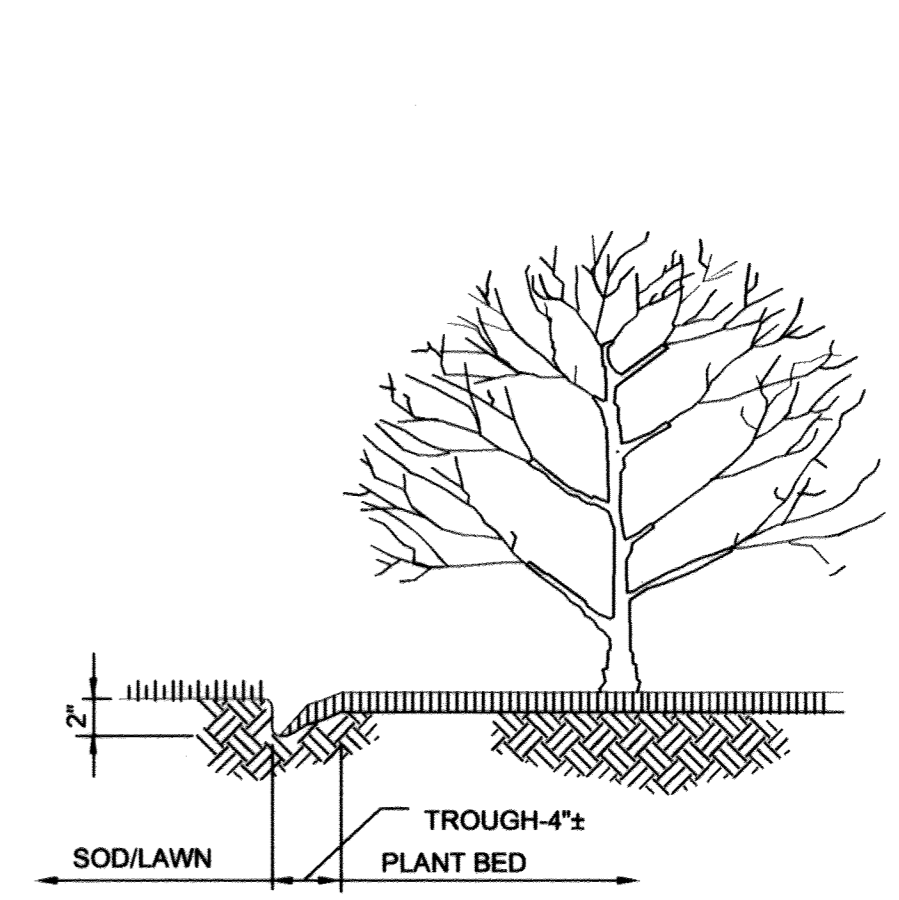
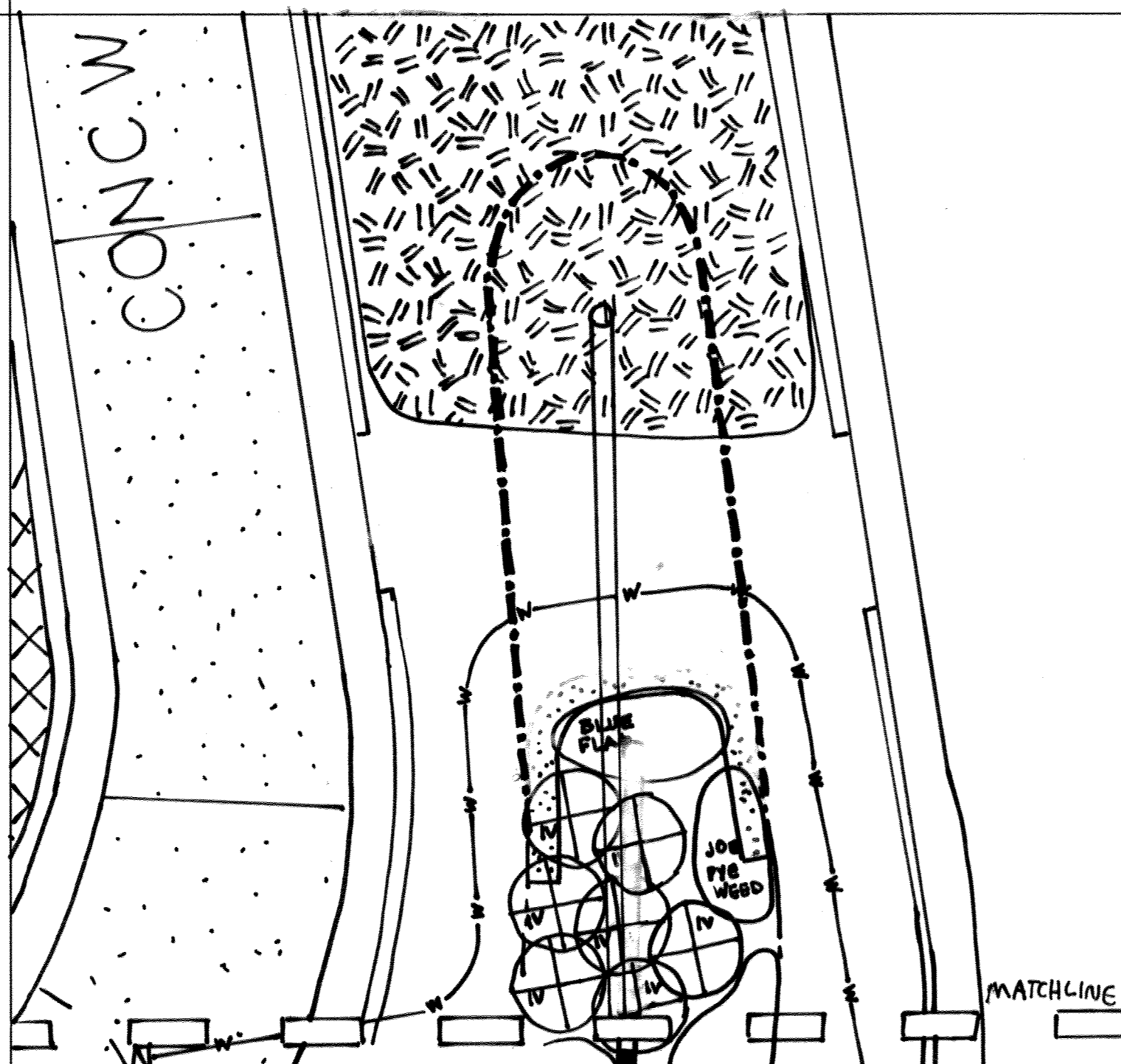


2 MASS SHRUB PLANTING
 SCALE: N.T.S.



- BIO-RETENTION NOTES
- THIS ENLARGEMENT IS FOR PLANTING OF BIO-RETENTION AREA ONLY
 - SEE SHEET PS-2 FOR BIO-RETENTION LAYOUT AND CONSTRUCTION SPECIFICATIONS
 - SEE SHEET L-1 FOR PLANTING SELECTIONS AND SIZES
 - GUIDELINES SET FORTH REGARDING LANDSCAPE ON THIS SHEET APPLY TO BIO-RETENTION LANDSCAPE ALSO
 - AREAS SHOWN ON THIS PLAN FOR HERBACEOUS PLANTINGS ARE SCHEMATIC AND ARE PROVIDED AS A GUIDELINE FOR PLANTING
 - THE NUMBER OF HERBACEOUS PLANTINGS TAKES PRECEDENT OVER ACTUAL PLACEMENT
 - THE SPECIFIED HERBACEOUS PLANTING CAN OVERLAP AND SHOULD BLEND INTO EACH OTHER AS TO NOT HAVE APPARENT DIVISIONS BETWEEN THE GROUPS

4 BIO-RETENTION LANDSCAPE
 SCALE: 1/4"=1'-0"



3 PLANT BED EDGING
 SCALE: N.T.S.

1. CUT PLANT BEDS IN SMOOTH CURVES
2. CUT EDGE OF SOD VERTICALLY TO CREATE CLEAN EDGE.

LANDSCAPE PLANTING NOTES AND SPECIFICATIONS

- ALL PLANTS TO BE NURSERY GROWN AND FURNISHED IN ACCORDANCE WITH ASN. "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI Z60.1 LATEST EDITION.
- ALL TREES TO BRANCH SYMMETRICALLY AROUND CENTRAL LEADER NO FORKED LEADER STOCK WILL BE ACCEPTED.
- CONTRACTOR IS VERIFY ALL QUANTITIES SHOWN IN PLANT SCHEDULES
- ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE AND MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- CONTAINER STOCK MAY BE SUBSTITUTED FOR BALLED AND BURLAPPED STOCK UPON APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FIVE (5) DAYS PRIOR TO INSTALLATION AND/OR CONSTRUCTION.
- ANY DAMAGE TO EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALKS, AND EXISTING VEGETATION SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL AREAS TO BE PLANTED SHOULD BE FINISHED WITH 2 - 3" FINE TEXTURED, SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON ALL AREAS DISTURBED DURING INSTALLATION SHALL BE SEEDED UNLESS OTHERWISE NOTED.
- POTABLE WATER SHALL BE MADE AVAILABLE TO ALL PLANT MATERIALS AS REQUIRED FOR GROWTH.
- IF PLANT MATERIAL CANNOT BE INSTALLED IN ACCORDANCE WITH THIS PLAN, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: May 1, 2003

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 6/5/03
 [Signature] 8/1/03
 [Signature] 8/12/03

FOR REVISION 6 ONLY (AS-BUILT INFORMATION)
 MICHAEL J. GSELL
 PROFESSIONAL ENGINEER
 MARYLAND LICENSE No. 441097

FOR REVISION 5 ONLY
 [Signature] 9/29/16
 PROFESSIONAL CERTIFICATION
 I, MICHAEL J. GSELL, 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. 441097, EXPIRATION DATE: 6/19/17

FOR REVISION 5 ONLY
 BOHLER ENGINEERING
 901 DULANEY VALLEY RD.
 SUITE 201
 TOWSON, MD 21284
 Phone: 410-821-7900
 Fax: 410-821-7987
 MDC BOHLEREN6.COM

GENERAL NOTE:
 1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE ESTIMATED AMOUNT OF \$600.00.

1 SHADE TREE @ \$300.00 =	\$300.00
2 EVERGREEN TREES @ \$150.00 =	\$300.00
0 SHRUBS @ \$30.00 =	\$0.00
TOTAL COST ESTIMATE	\$600.00

3. THE PLANT SIZE SHALL TAKE PRECEDENCE OVER THE CONTAINER SIZE, WHERE BOTH ARE GIVEN.

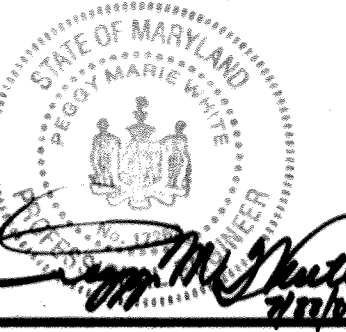
DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

[Signature] 7/24/03
 (NAMES) DATE

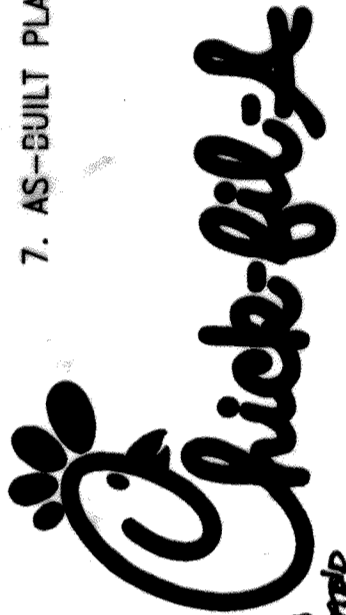
The RBA ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc.
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21048 (410) 312-0966

RBA PROJ. NO.: M3080.00
 DRAWN BY: JB/PS
 DESIGNED BY: JB
 CHECKED BY: SK

SHEET NO.
 L-2
 11 of 17



Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000



7. AS-BUILT PLANS 9-25-2020
DOBBIN COMMERCIAL CENTER
COLUMBIA, MD

PLUMBING SITE PLANS 03/04/16
DATE: May 1, 2003

PS-1
12 of 17

GENERAL UTILITY NOTES

- REFER TO THE MEP PLANS FOR THE CONTINUATION OF ALL UTILITIES INTO THE BUILDING.
- STANDARD CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT EACH BEND OR TEE IN THE WATER, PER APPROPRIATE HOWARD COUNTY STANDARD DETAIL.
- ELECTRIC WILL BE INSTALLED BY BGE WHICH INCLUDES THE PRIMARY CABLING AND SUPPLYING AND SETTING OF THE TRANSFORMER AND PAD. THE CONTRACTOR MUST INSTALL ALL THE CONDUITS WITH PULL WIRES FOR PRIMARY AND SECONDARY CABLING ALONG WITH SECONDARY CABLING. BGE WILL SUPPLY ALL CONDUITS REQUIRED. CONDUITS ARE REQUIRED UNDER ALL PAVED AREAS. BGE WILL SUPPLY AND SET THE METER. CONTRACTOR SHALL COORDINATE WORK WITH ON-SITE CONSTRUCTION INCLUDING SCHEDULING OF THE INSTALLATION. CONTACT BGE WELL IN ADVANCE OF ANTICIPATED CONSTRUCTION. COORDINATE ELECTRIC CONDUIT LOCATIONS WITH BGE PRIOR TO CONSTRUCTION.
- TELEPHONE SERVICE TO BE PROVIDED BY VERIZON. CONTRACTOR SHALL INSTALL ALL NECESSARY CONDUITS FOR SERVICE. (TWO 4" PVC, SCH. 40) CONTACT VERIZON WELL IN ADVANCE OF ANTICIPATED CONSTRUCTION. COORDINATE ALL CONDUIT LOCATIONS WITH VERIZON PRIOR TO CONSTRUCTION.
- ALL STORM DRAIN PIPES SHALL BE RCP.
- ALL SANITARY SEWER PIPES SHALL BE PVC SDR-35 UNLESS NOTED OTHERWISE ON THE PLAN.
- ALL 3/4" WATER PIPING SHALL BE COPPER WATER TUBING. ALL 2" WATER PIPING SHALL BE COPPER TYPE 'K'.
- ALL ROOF LEADER DRAIN PIPES AND TRUNK LINES (UNDERGROUND) SHALL BE PVC-SCH.40.
- SANITARY LATERALS TO HAVE A MINIMUM FALL OF 2.00% UNLESS NOTED OTHERWISE ON PLAN.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES AND THEIR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. CONTACT THE ENGINEER IMMEDIATELY SHOULD A PROBLEM ARISE. ALLOW A MINIMUM OF 3 DAYS FOR ANY NECESSARY REDESIGN REQUIRED.
- PROVIDE 1 FOOT MINIMUM CLEARANCE BETWEEN OUTSIDE OF PIPES AT ANY SANITARY CROSSING AND 6 INCH MINIMUM CLEARANCE BETWEEN ALL UTILITY CROSSINGS.
- CONTRACTOR SHALL VERIFY ALL UTILITY LINE ROUTINGS WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION. CONTACT THE ENGINEER IMMEDIATELY SHOULD A PROBLEM ARISE.
- STORMWATER MANAGEMENT HAS BEEN PROVIDED FOR THIS DEVELOPMENT UNDER DOBBIN ROAD COMMERCIAL CENTER (F-81-36C).
- CONTRACTOR TO DESIGN AND INSTALL IRRIGATION SYSTEM. SEE ARCHITECTURAL PLANS FOR 1" STUB FOR CONNECTION.
- ALL WATER TO HAVE A MINIMUM OF 3/2 FEET OF COVER.
- WATER METER TO BE LOCATED INSIDE THE PROPOSED BUILDING.

ELECTRIC AND TELEPHONE SERVICE TO BE ACCESSED FROM DRIVE AISLE SOUTHWEST OF SITE. EXACT LOCATION TO BE DETERMINE BY APPROPRIATE UTILITY COMPANY.

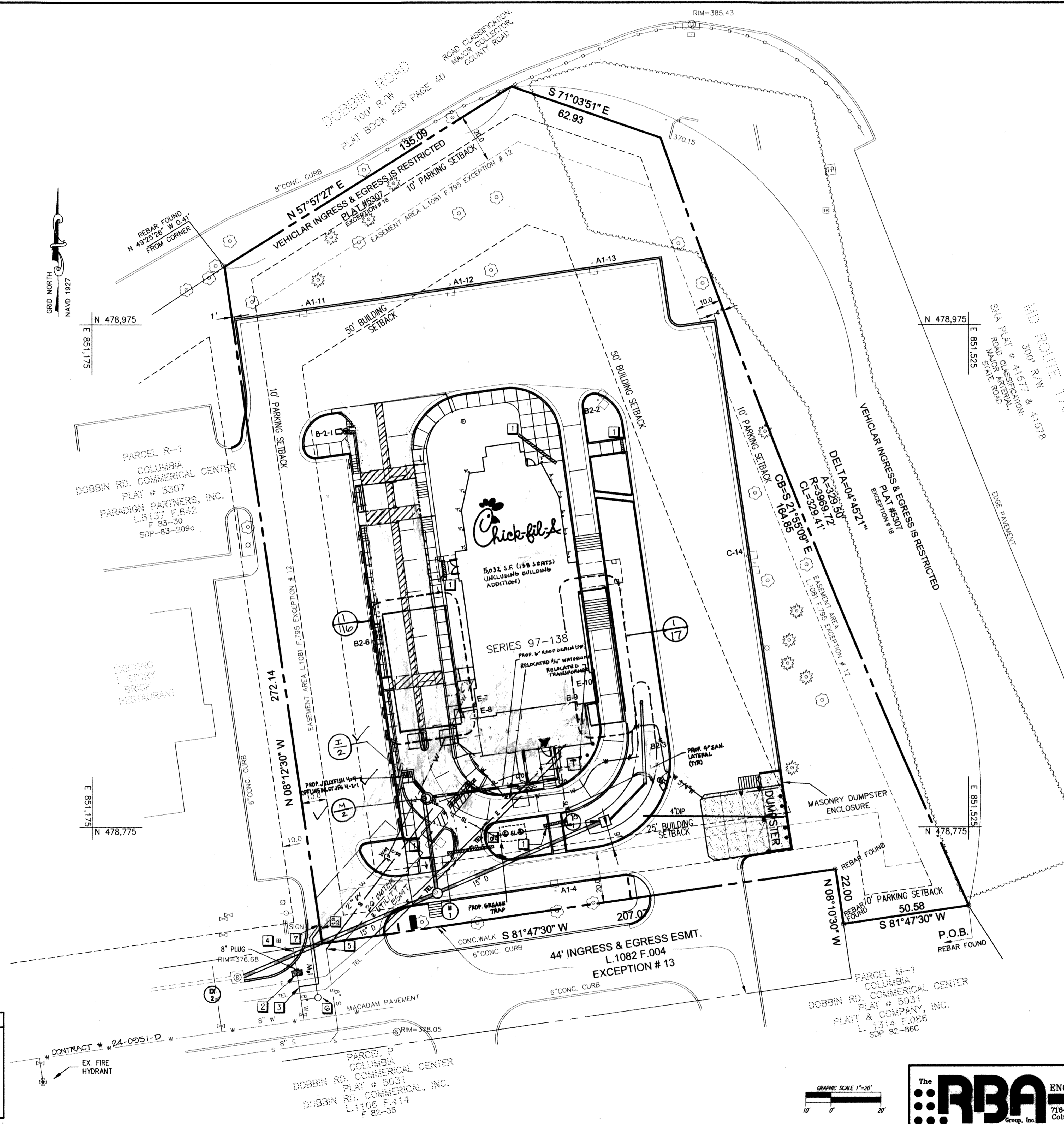
VERIZON
BRYAN SHANK
2510 RIVA RD, 6TH FLOOR
ANNAPOLIS, MD 21401
PH: (410) 224-1670

BALTIMORE GAS AND ELECTRIC
GAS AND ELECTRIC NEW BUSINESS DEPARTMENT
7317 PARKWAY DRIVE, SOUTH
HANOVER, MARYLAND 21076
PH: (410) 850-4620

- 4" PVC SCHEDULE 40, SLEEVE FOR IRRIGATION.
- BUTTRISS
- WATER SERVICE CONNECTION
WITH SERVICE BOX SET ON PROPERTY LINE
- EX. 8" STUB CONFLICTS WITH PROPOSED STORM DRAIN. REMOVE PIPE SECTIONS (PER SHEET C1-A) AND INSTALL 8" PLUG & BUTTRISS
- LOCATE EX. SANITARY HOUSE CONNECTION. CUT & INSTALL 45° BEND TO MAKE NEW CONNECTION
- 1" WATER METER AND FIT. WITH 1" MAIN, FOR IRRIGATION, UP TO PROPERTY LINE.
- 1" PLUG PLUG FOR CONNECTION OF ON-SITE IRRIGATION BY CHICK-FIL-A CONTRACTOR.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: May 1, 2003



FOR REVISION 6 ONLY
(AS-BUILT INFORMATION ONLY)
MICHAEL J. GESELL

Professional Engineer Seal for Michael J. Gezell, License No. 44097, dated 6/19/14.

MICHAEL J. GESELL, 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. 44097, EXPIRATION DATE: 6/19/14

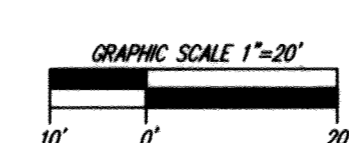
FOR REVISION 5 ONLY

Professional Engineer Seal for Michael J. Gezell, License No. 44097, dated 6/19/14.

PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, 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. 44097, EXP. DATE: 6/19/14

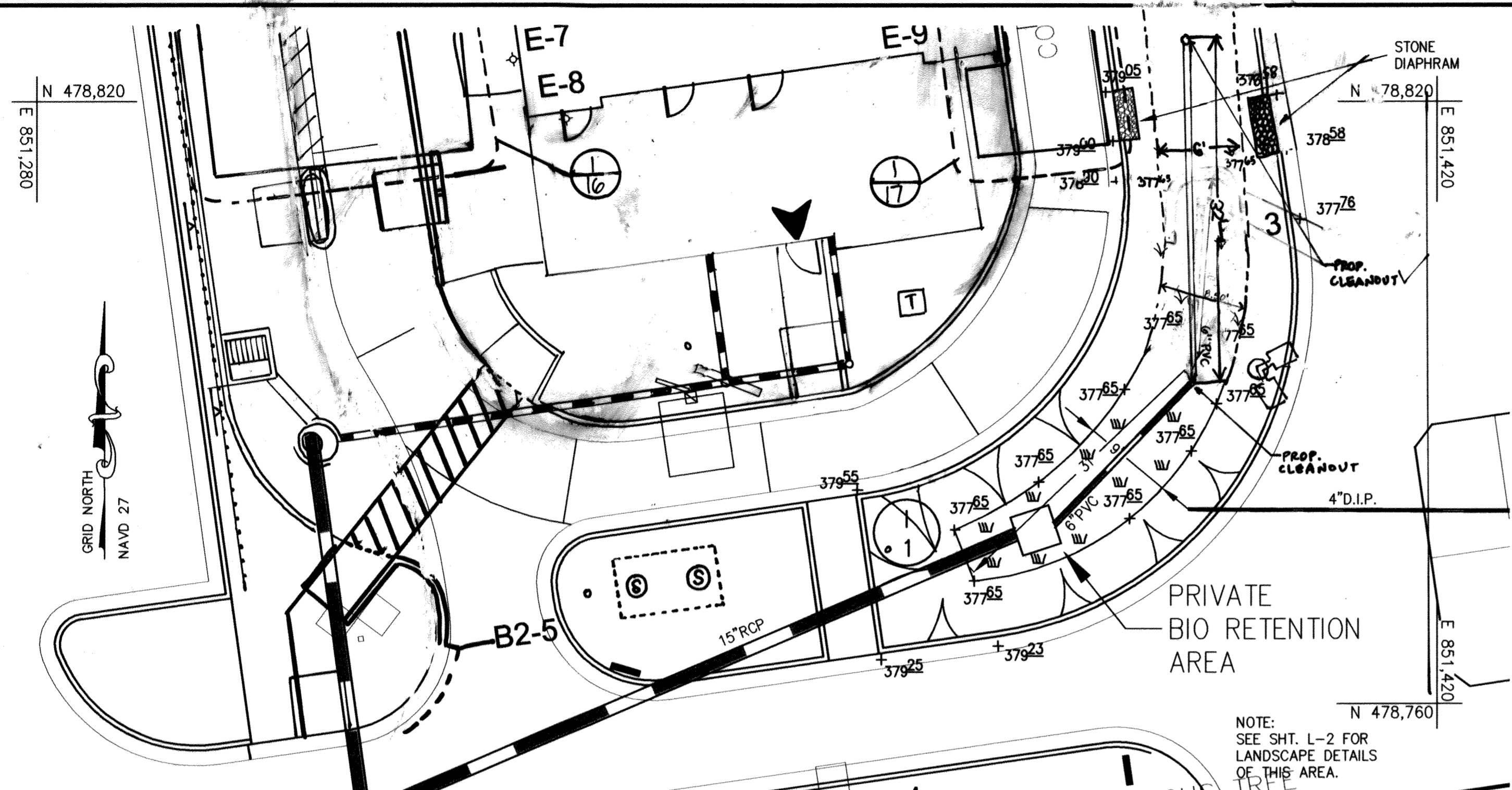
FOR REVISION 6 ONLY
BOHLER ENGINEERING
901 DULANEY VALLEY RD. STE. 801
TOWSON, MD 21284
PHONE: 410-814-7900
FAX: 410-814-7907
MD@BOHLERENG.COM

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division: MK
Chief, Division of Land Development: [Signature]
Director: [Signature]

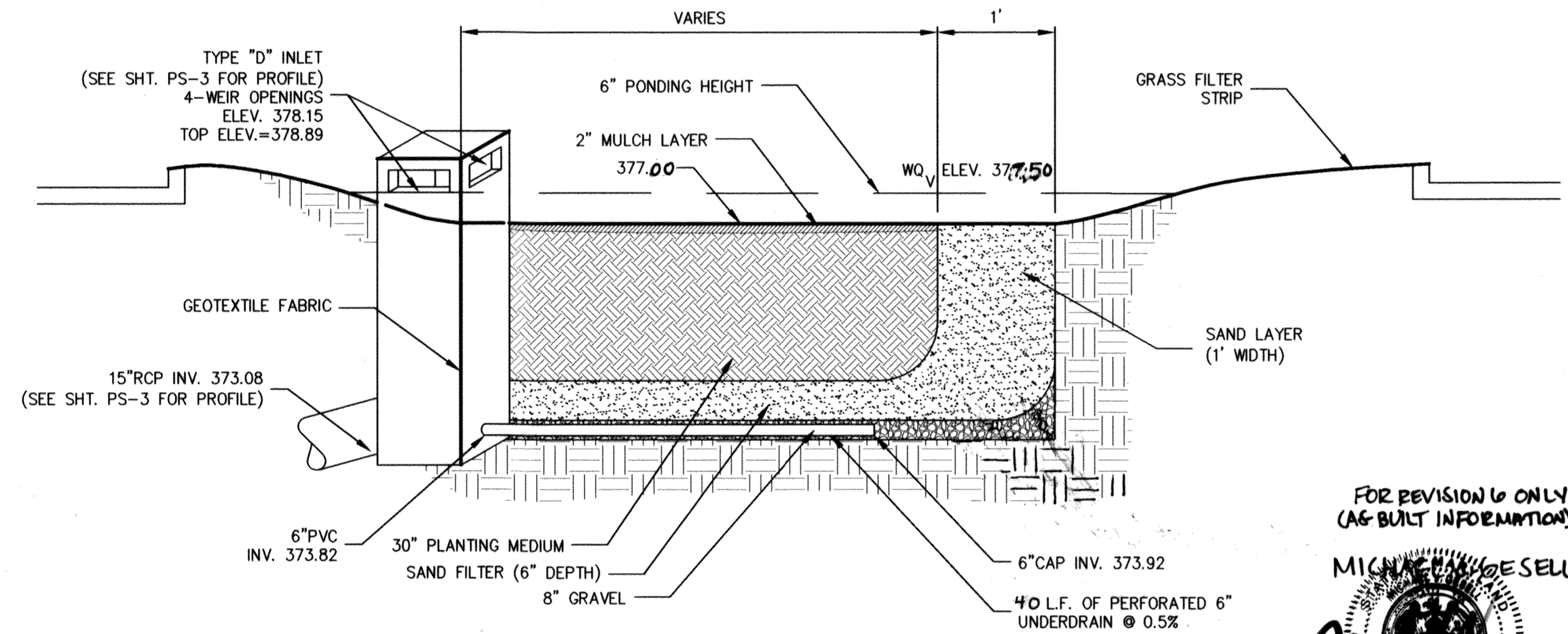


The RBA ENGINEERS • ARCHITECTS • PLANNERS
7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21048 (410) 312-0966

RBA PROJ. NO.: M3080.00
DRAWN BY: KL
DESIGNED BY: EM
CHECKED BY: JR



BIORETENTION PLAN VIEW
SCALE: 1"=10'



BIORETENTION FACILITY SECTION
SCALE: N.T.S.

FOR REVISION 5 ONLY
BOHLER ENGINEERING
901 DULANEY VALLEY RD STE 801
TOWSON, MD 21284
PHONE: 410-821-7400
FAX: 410-821-7401
MDC@BOHLERENG.COM

NOTE: AT UNDISTURBED AREAS, SUITABLE TOPSOIL IS EXISTING. AT DISTURBED AREAS, REUSE EXISTING SURFACE TOPSOIL AND VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING SPECIFIED REQUIREMENTS AND AMEND WHEN NECESSARY.

FOR REVISION 5 ONLY
M. J. BOELL
9/12/16

PROFESSIONAL CERTIFICATION
I, MICHAEL J. BOELL, 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 44097, EXP. DATE 01/31/17

GRASS FILTER STRIP SECTION
SCALE: N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Damman 8/5/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cindy Hamada 8/12/03
CHIEF, DIVISION OF LAND DEVELOPMENT
Paul H. Leary 8/12/03
DIRECTOR

BIORETENTION CONSTRUCTION SPECIFICATIONS

- MATERIALS**
 - THE ALLOWABLE MATERIALS TO BE USED IN THE BIORETENTION AREA ARE DETAILED IN TABLE B.3.2.
 - 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 BIORETENTION AREA 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:

PH RANGE	5.2 - 7.0
ORGANIC MATTER	1.5 - 4% (BY WEIGHT)
MAGNESIUM	35 LB./AC
PHOSPHORUS (PHOSPHATE - P ₂ O ₅)	75 LB./AC
POTASSIUM (POTASH - K ₂ O)	85 LB./AC
SOLUBLE SALTS	NOT TO EXCEED 500 PPM
 - ALL BIORETENTION AREAS SHALL HAVE A MINIMUM OF ONE TEST. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED TOPSOIL. IF TOPSOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHALL BE PERFORMED FOR EACH LOCATION WHERE THE TOP SOIL WAS EXCAVATED.
 - SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHALL COME FROM THE SAME TESTING FACILITY.
 - SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- COMPACTION**
 - IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF BIORETENTION AREAS ARE 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 REFRACURE 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 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.
 - PLANT MATERIAL AND INSTALLATION**
 - SEE LANDSCAPE PLAN AND SPECIFICATION FOR PLANT MATERIAL.
 - MULCH SHOULD BE PLACED TO A UNIFORM THICKNESS OF 2" TO 3". SHREDDED 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.
 - ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING THE TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8TH 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.
 - 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.
 - UNDERDRAINS**
 - UNDERDRAINS ARE TO BE PLACED ON A 3'-0" WIDE SECTION OF FILTER CLOTH. PIPE IS PLACED NEXT, FOLLOWED BY THE GRAVEL BEDDING. THE ENDS OF UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL SHALL BE CAPPED.
 - THE MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA).
 - MISCELLANEOUS**
 - THE BIORETENTION FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

FOR REVISION 6 ONLY
(AS-BUILT INFORMATION)
MICHAEL J. BOELL
9/12/16
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO 44097

TABLE B.3.2

Materials	Specification	Size	Notes
Plantings	see Landscape Plan	n/a	plantings as shown on landscape plan
planting soil (2.5' to 4' deep)	Planting soil small 35 - 60% silt 30- 35% clay 10-25%	n/a	
mulch	shredded hardwood		aged 6 months, minimum
geotextile	Class "C" - apparent opening size (ASTM-D-4751), grab tensile strength (ASTM-D-4632), puncture resistance (ASTM-D-4833)	n/a	for use as necessary beneath underdrains only
underdrain gravel	AASHTO M-43	0.25" to 0.75"	
sand (1' deep)	AASHTO M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Grystone #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand
Stone Diaphragm (1' Wide, 2' Deep)	Pea Gravel & ASTM-D-448 Ornamental Stone: Washed Cobbles	Pea Gravel: No.6 Stone: 2" to 5"	Use Clean Bank-Run Gravel
Underdrain Piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" Rigid Schedule 40 PVC or SD1235	3/8" Perf. @ 6" on Center, 4 holes per Row; Minimum of 3" of Gravel Over Pipes; Not Necessary Underneath Pipes.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: May 1, 2003

GRASS FILTER STRIP CONSTRUCTION SPECIFICATIONS

- SITE PREPARATION**
 - IF GRADING IS REQUIRED AND TOPSOIL IS SUITABLE FOR USE REMOVE AND STOCKPILE THE TOPSOIL.

NOTE: TOPSOIL SALVAGED FROM THE EXISTING SITE MAY NOT BE USED BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. THE DEPTH OF TOPSOIL TO BE SALVAGED SHOULD BE 6 INCHES UNLESS THE DEPTH IS DESCRIBED AS A REPRESENTATIVE PROFILE FOR THAT PARTICULAR SOIL TYPE AS DESCRIBED IN THE SOIL SURVEY IS LESS THAN 6 INCHES, IN WHICH CASE THE LESSER DEPTH SHALL BE REMOVED.
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION. SEEDING, MULCH APPLICATION, ANCHORING AND MAINTENANCE.
 - LIMING:** WHERE THE SUBSOIL IS EITHER HIGHLY ACID OR COMPOSED OF HEAVY CLAYS, GROUND DOLOMITE LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET). LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
 - TILLING:** AFTER THE AREA TO BE TOPSOILED HAS BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOP-SOIL, THE SUBGRADE SHALL BE LOOSENEED BY DISCING OR BY SCARYING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL. PACK BY PASSING A BULLDOZER VERTICALLY TRACKING OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN THE SLOPE AND RILLING.
- SOIL PREPARATION AND AMENDMENTS**
 - MATERIALS:** TOPSOIL SHALL BE A LOAMY SAND, SANDY LOAM, LOAM, OR SILT LOAM ONLY AND IN THAT RESPECTIVE ORDER OF PREFERENCE. IT SHALL NOT HAVE A MIXTURE OF CONTRASTING TEXTURED SUBSOIL AND CONTAIN NO MORE THAN 5 PERCENT BY VOLUME OF CHINDERS, STONES, SLAG, COARSE FRAGMENT, GRAVEL, STICKS, ROOTS, TRASH OR OTHER EXTRANEOUS MATERIALS LARGER THAN 1-1/2 INCHES IN DIAMETER. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS OF BERMUDAGRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, CANADA THISTLE, OR OTHERS AS SPECIFIED. ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY FOR ORGANIC MATTER CONTENT, PH AND SOLUBLE SALTS. A PH OF 6.0 TO 7.5 IS NOT LESS THAN 1.5 PERCENT BY WEIGHT IS REQUIRED. IF PH VALUE IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE PH TO 6.5 OR HIGHER. TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - NO SOO OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED TO PERMIT DISSIPATION OF TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS AS APPROVED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST MAY BE USED IN LIEU OF NATURAL TOPSOIL.
 - GRADING:** THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED AND TRACKED AND SHALL BE A MINIMUM COMPACTED DEPTH OF 4 INCHES. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS AND WATER POCKETS. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
 - LIME AND FERTILIZER ACCORDING TO SOIL TESTS:** LIME AND FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY.
 - IN LIEU OF SOIL TESTS APPLY 1,000 POUNDS 10-10-10 OR EQUIVALENT PER ACRE IF UREA FERTILIZER IS NOT USED, AND 600 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE IF UREAFORM FERTILIZER IS USED. APPLY THE LIME AND FERTILIZER BEFORE SEEDING AND HARROW OR DISC UNIFORMLY INTO THE SOIL TO A MINIMUM DEPTH OF 3 INCHES ON SLOPES FLATTER THAN 3:1. ON SLOPES STEEPER THAN 3:1 GRADE, THE LIME AND FERTILIZER SHALL BE WORKED IN AS BEST AS POSSIBLE. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR WHEREVER FEASIBLE. NO ATTEMPT SHOULD BE MADE TO DRAG AND DISCED AREA TO MAKE THE SOIL SURFACE VERY SMOOTH AFTER DISCING. WHEN THE 600 POUNDS PER ACRE RATE OF 10-10-10 FERTILIZER RATE IS USED, AT THE TIME OF SEEDING, APPLY 400 POUNDS OF A UREAFORM FERTILIZER OF A GRADE OF AT LEAST 30-0-0 PER ACRE.

NOTE: THE SLOW RELEASE OF UNIFORM FERTILIZER WILL SUPPLY NITROGEN OVER A LONGER PERIOD OF TIME AND WILL RESULT IN A HEALTHIER GRASS STAND.
 - SEEDING**
 - USE A SEED MIX FROM PERMANENT SEEDING NOTES ON SHEET C.3.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED. MAXIMUM SEEDING DEPTH SHOULD BE 1/4 INCH ON CLAYEY SOILS AND 1/2 INCH ON SANDY SOILS, WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION.

NOTE: IF HYDROSEEDING IS USED AND THE SEED AND FERTILIZER IS MIXED, THEY WILL BE MIXED ON SITE AND THE SEEDING SHALL BE IMMEDIATE WITHOUT INTERRUPTION.
 - MULCHING**

MULCH MATERIALS ARE LISTED IN ORDER OF THEIR EFFECTIVENESS. MULCH MATTINGS ARE NORMALLY ONLY USED ON CRITICAL AREAS SUCH AS WATERWAYS OR STEEP SLOPES.

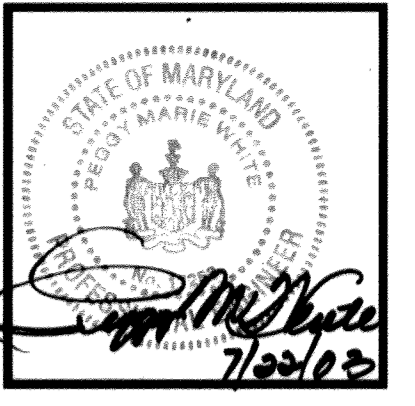
 - MATERIALS AND AMOUNTS**
 - MULCH MATTINGS:** JUTE BLANKET SHALL BE STAPLED TO THE SURFACE IN WATERWAYS AND ON STEEP SLOPES. LIGHTER MATERIALS OF PAPER, PLASTIC AND COTTON MULCH MATTINGS MAY BE USED WHERE EROSION HAZARD IS NOT SEVERE. IF THE AREA IS TO BE MOWED, DO NOT USE METAL STAPLES.
 - STRAW:** STRAW SHALL BE UNROTTED SMALL GRAIN APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE, OR 70 TO 90 (TWO BALES) POUNDS PER 1,000 SQUARE FOOT. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS SUCH AS: THISTLES, JOHNSONGRASS AND QUACKGRASS. SPREAD UNIFORMLY BY HAND OR MECHANICALLY. FOR UNIFORM DISTRIBUTION OF HAND SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FOOT SECTION AND PLACE 70-90 POUNDS OF MULCH IN EACH SECTION.
 - WOOD CHIPS:** AT THE RATE OF APPROXIMATELY 6 TONS PER ACRE OR 275 POUNDS PER 1,000 SQUARE FEET MAY BE USED WHEN AVAILABLE AND WHEN FEASIBLE. THESE ARE PARTICULARLY WELL-SUITED FOR UTILITY AND ROADS RIGHTS-OF-WAY. IF WOOD CHIPS ARE USED, INCREASE THE APPLICATION RATE OF NITROGEN FERTILIZER BY 20 POUNDS (200 POUNDS 10-10-10 OR 66 POUNDS 30-0-0).
 - WOOD CELLULOSE FIBER:** MULCH AT THE RATE OF 1,500 POUNDS PER ACRE OR 35 POUNDS PER 1,000 SQUARE FOOT MAY BE APPLIED BY HYDROSEEDING.

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS

- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

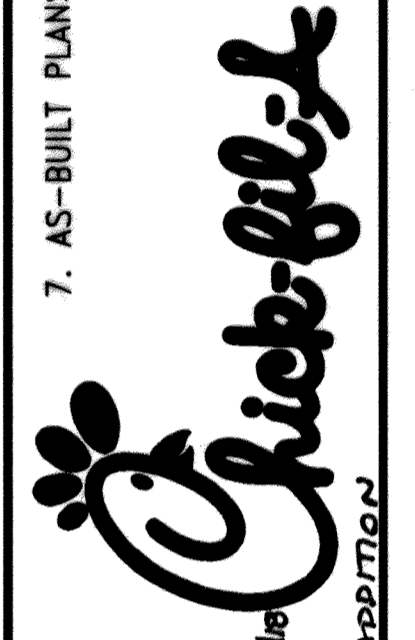
The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3080.00
DRAWN BY: KL
DESIGNED BY: EM/WGZ
CHECKED BY: JR



Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000

7. AS-BUILT PLANS 9-25-2020



DOBBIN COMMERCIAL CENTER
COLUMBIA, MD
RELOCATE ROOF DRAIN
BIORETENTION DETAILS & SPECIFICATIONS

Edition Date: 01/21/03
Project Date: 12/03/02
Revision
1 3/11/03
2 7/30/03
3 9/25/05
4 2/13/12
NO REVISIONS
RELOCATE ROOF DRAIN
BIORETENTION DETAILS & SPECIFICATIONS

SHEET NO.
PS-2
13 of 17

PIPE SCHEDULE		
SIZE	TYPE	LINEAR FOOTAGE
STORM		
4"	D.I.P	56
5"	ADS PIPE	38
6"	PVC-SCHEDULE 40	74
6"	PERFORATED PVC	22
15"	RCP	248
SANITARY SEWER		
4"	PVC-SDR-35	154
WATER		
2"	COPPER TYPE 'K'	155
3/4"	COPPER TYPE 'K'	162
4"	PVC SCHEDULE 40 IRRIGATION SLEEVES	156

NOTE: CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID. ALL STRUCTURES ARE HOWARD COUNTY OR MARYLAND DEPT. OF TRANSPORTATION STANDARDS UNLESS NOTED OTHERWISE. REFER TO SHEET C-7 FOR DETAILS. ELEVATIONS ARE GIVEN TO TOP OF CURB FOR CURB INLETS, TOP OF GRATE FOR GRATE INLETS AND TOP OF RIM FOR MANHOLES.

ROOF DRAIN STUBS	
DESCRIPTION	INVERT
RD1	378.50
RD2	377.30

SANITARY SEWER SCHEDULE			
DESCRIPTION	STATION	INVERT	TOP*
CLEANOUT #1	1+10	374.04	380.1
CLEANOUT #2	1+26	374.86	380.6

STORM DRAIN STRUCTURE SCHEDULE					
NUMBER	TYPE	INVERT			REMARK
		TOP*	IN	OUT	
I-1	D' INLET	377.55	373.83	373.08	HCS D 4.11
I-2		377.46	373.71	373.71	HCS D 5.12
M-1		377.78	372.69	372.59	HCS D 4.11
M-2		376.86	373.78	373.78	JELLYFISH INLET

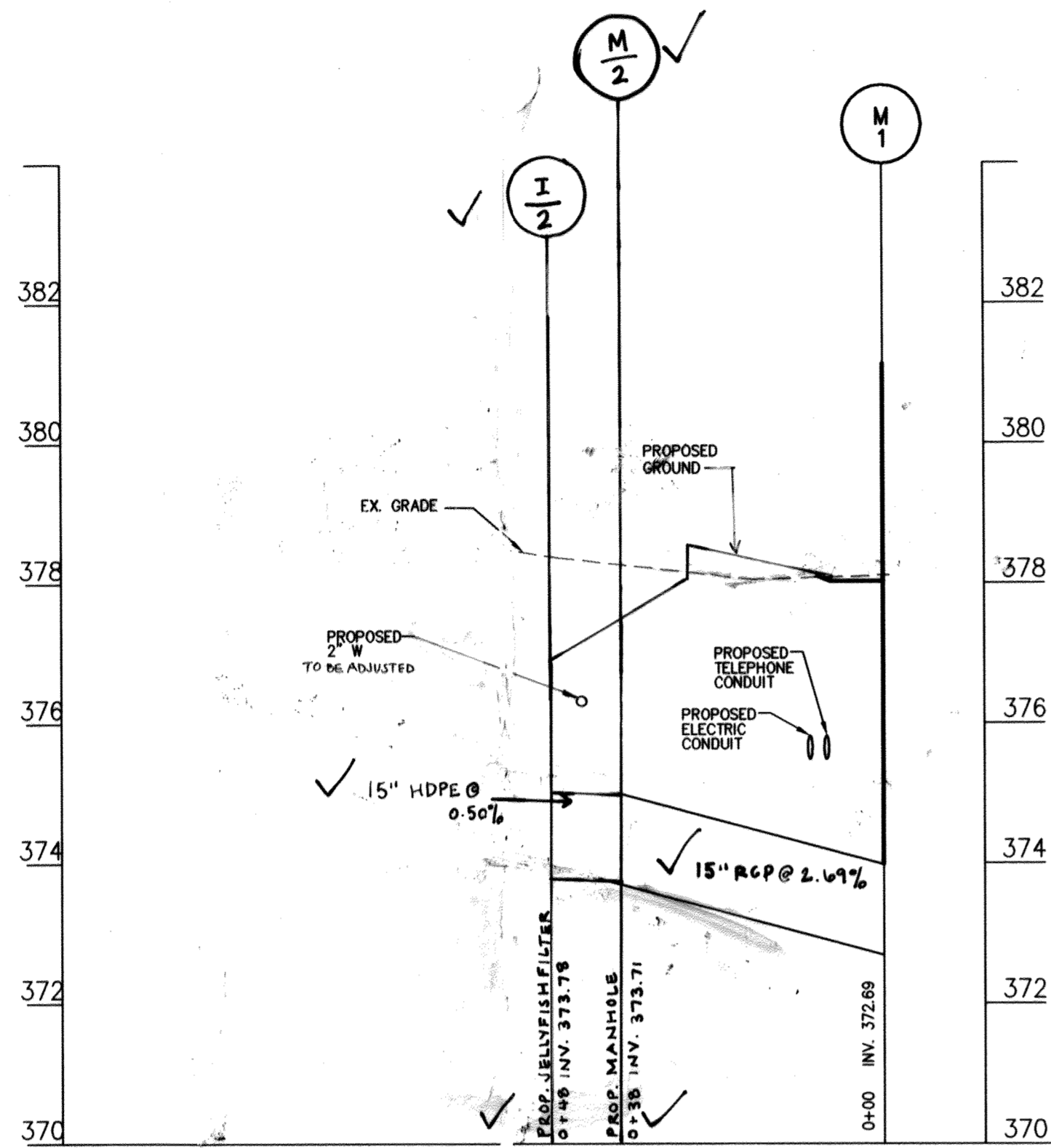
* FOR 'A' & 'D' INLETS, TOP=WEIR, BOTTOM OF THROAT OPENING ELEVATION

NOTE: CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID.

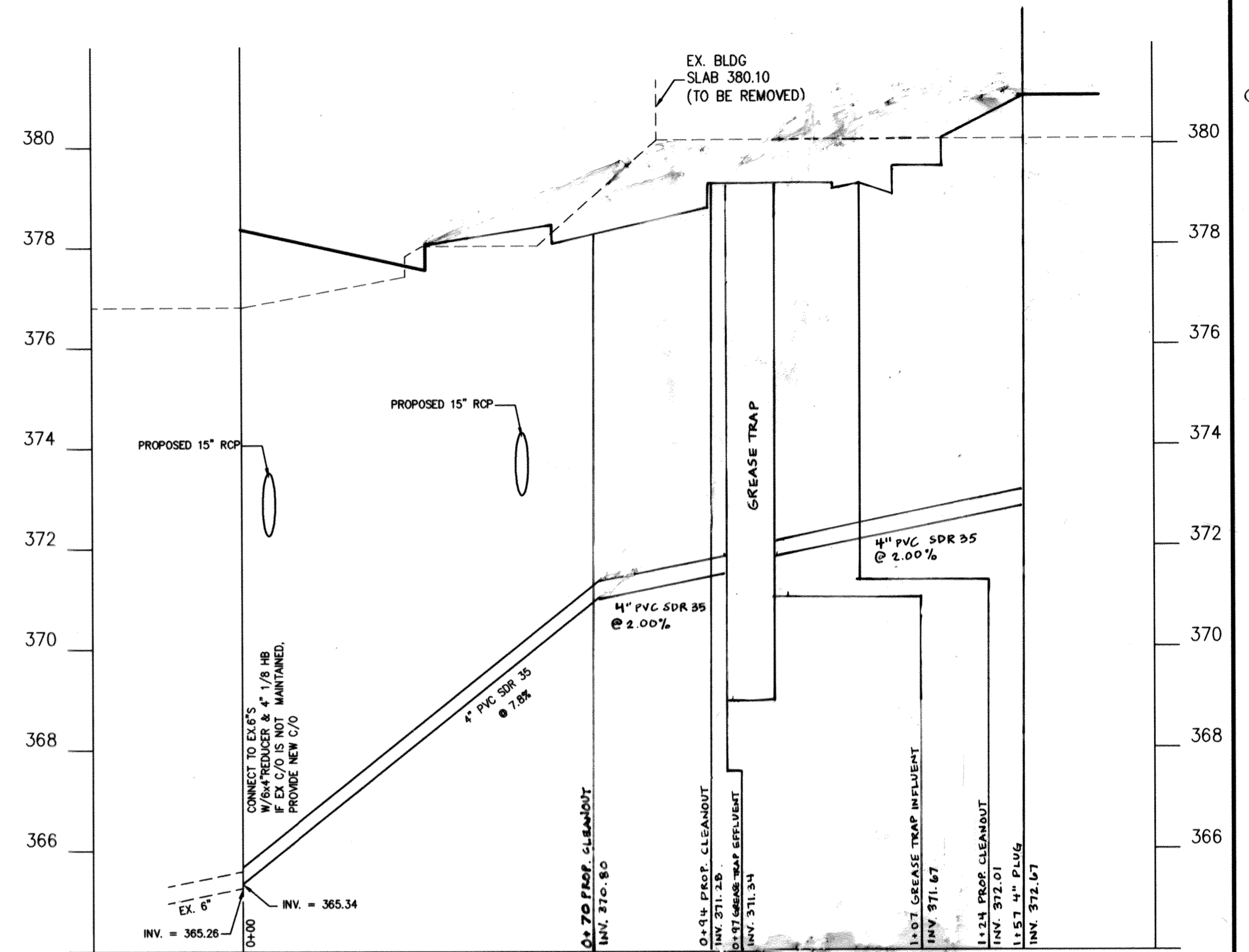
I, MICHAEL J. GESELL, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 44097 EXPIRATION DATE: 6/19/19

FOR REVISION 6 ONLY (NO AS-BUILT INFORMATION)
MICHAEL J. GESELL

7/19/16
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44097

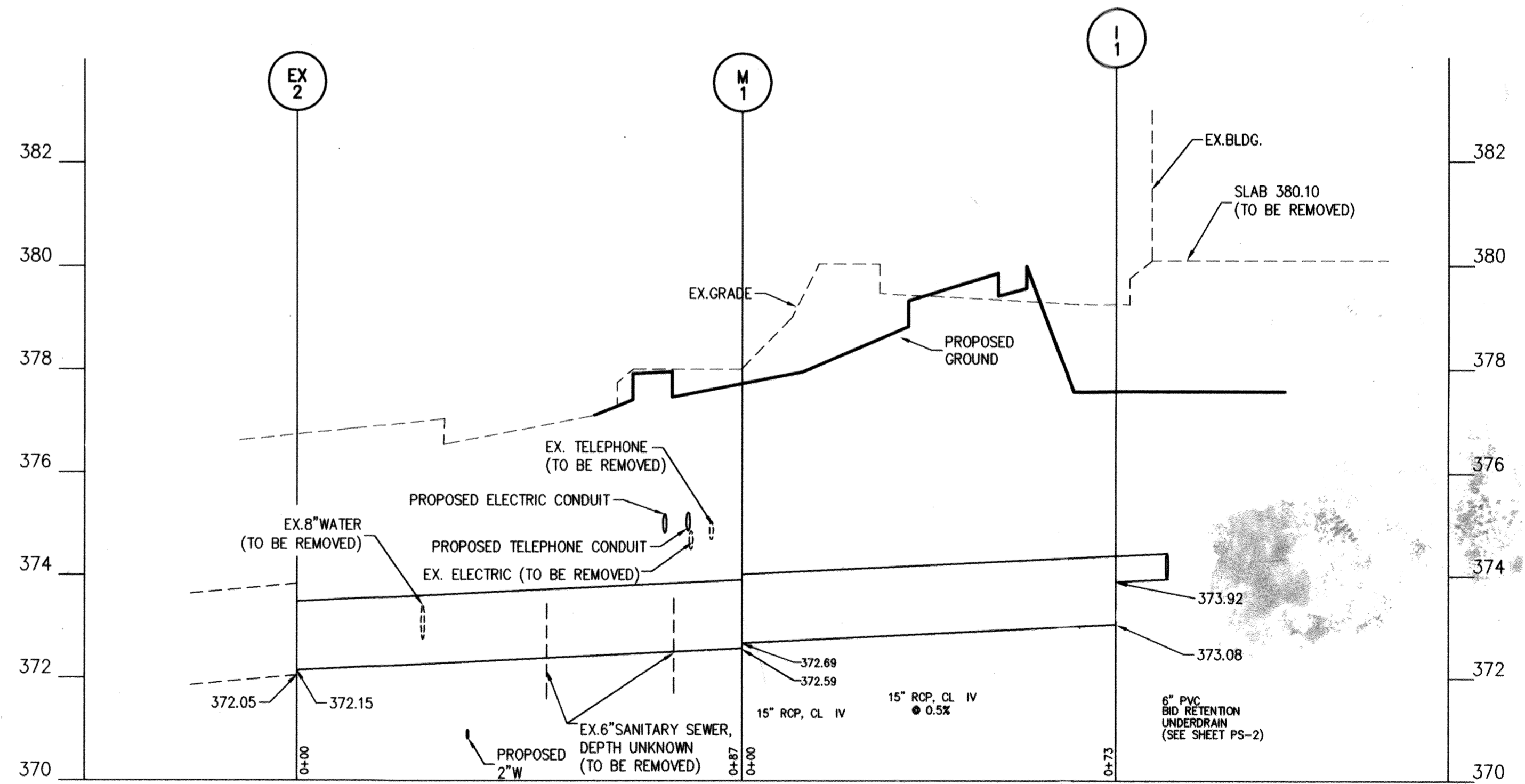


SCALE:
HOR: 1" = 20'
VER: 1" = 2'



SANITARY SEWER

SCALE:
HOR: 1" = 20'
VER: 1" = 2'



STORM DRAIN

SCALE:
HOR: 1" = 20'
VER: 1" = 2'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 8/5/02
[Signature] 8/12/03
[Signature] 8/12/03
DIRECTOR

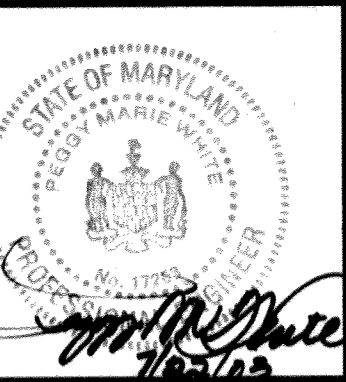
FOR REVISION 5 ONLY
[Signature] 9/29/16
PROFESSIONAL CERTIFICATION
I, MICHAEL J. GESELL, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 44097, EXP. DATE: 6/19/17

FOR REVISION 5 ONLY
BOHLER ENGINEERING
901 DULANEY VALLEY RD. STE. 801
TOWSON, MD 21284
PHONE: 410-821-7700
FAX: 410-821-7787
MDE@BOHLERENR.COM

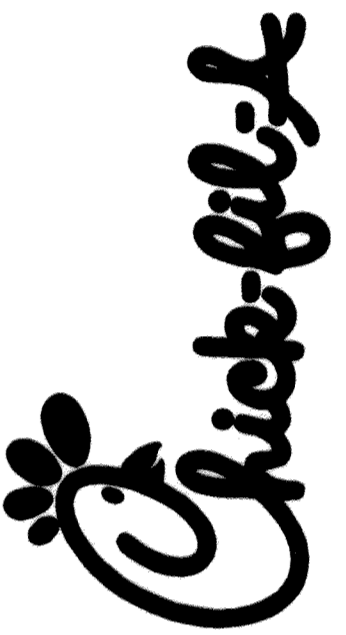
APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: May 1, 2003

The RBA ENGINEERS • ARCHITECTS • PLANNERS
7184 Columbia Gateway Drive Suite 205
Columbia, Maryland 21048 (410) 312-0986

RBA PROJ. NO.: M3080.00
DRAWN BY: PS/WGZ
DESIGNED BY: WGZ
CHECKED BY: JR



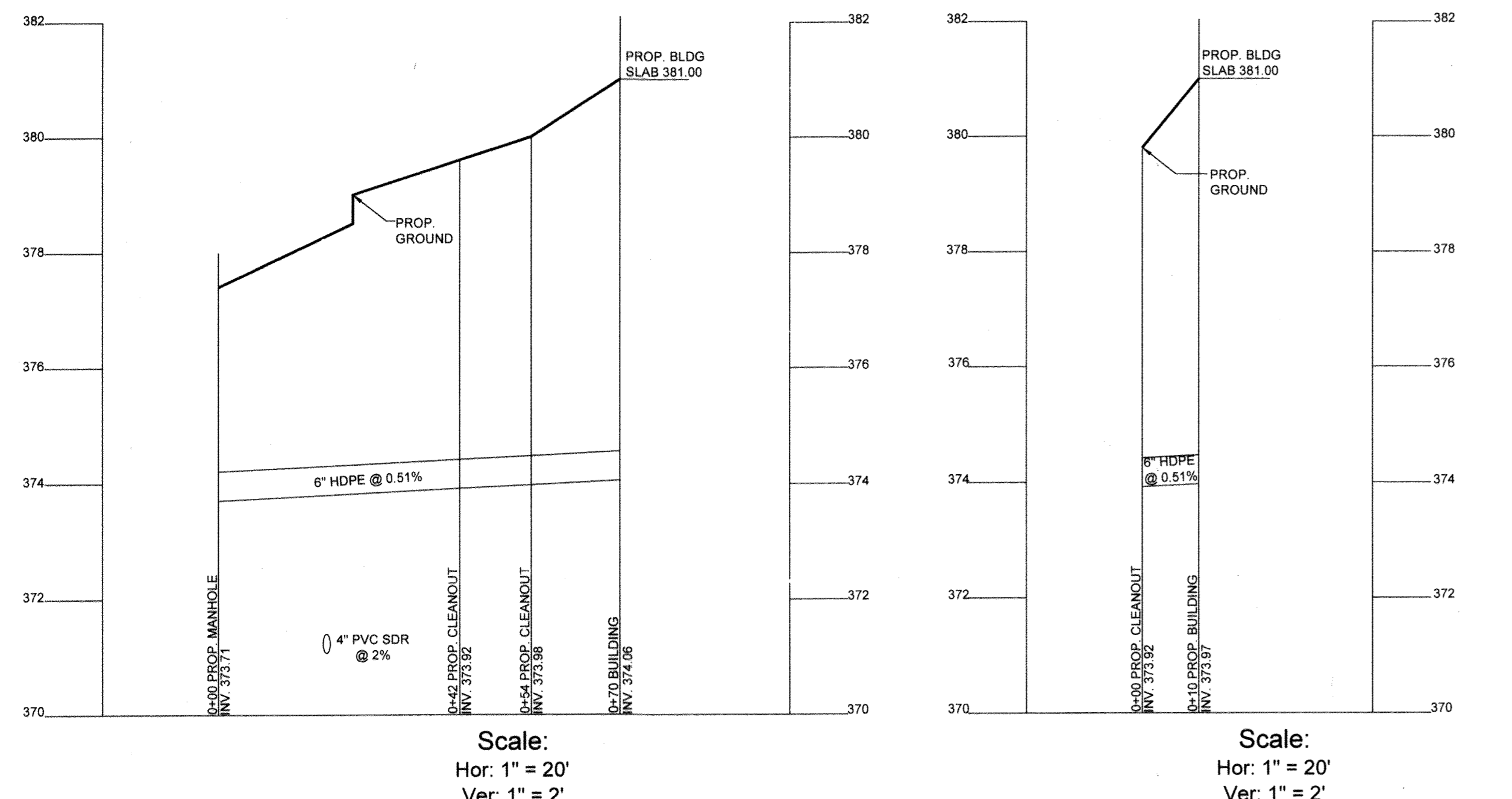
Series 97-138
5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone 404-765-8000



DOBBIN
COMMERCIAL CENTER
COLUMBIA, MD
5/13/16 IN ADDITIONAL DRIVE THRU LANE AND
UTILITY PROFILES 6" AS-BUILT PLANS (SHEET 18)

Edition Date: 01/21/03 BID SET
Project Date: 12/03/02
Date Revision
1 3/14/03
2 7/30/03
3 9/25/03
4 3/31/04
Sheet Title: UTILITY PROFILES

SHEET NO.
PS-3
14 of 17



Scale: Hor: 1" = 20' Ver: 1" = 2'

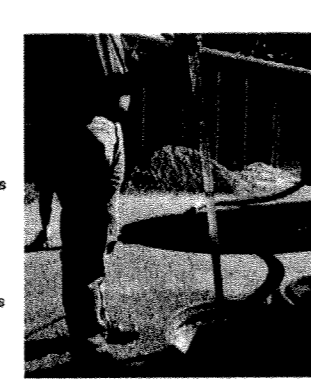
3.0 - Inspection and Maintenance Overview
The primary purpose of the Jellyfish Filter is to capture and remove pollutants from stormwater runoff. As with any filtration system, regular inspection and maintenance are required to ensure proper functioning of the system.

3.1 - Inspection
3.1.1 - Trenching
Inspection of the Jellyfish Filter is key in determining the maintenance requirements for the site. A detailed history of the site's pollutant loading characteristics, in general, is needed to determine the appropriate inspection frequency.

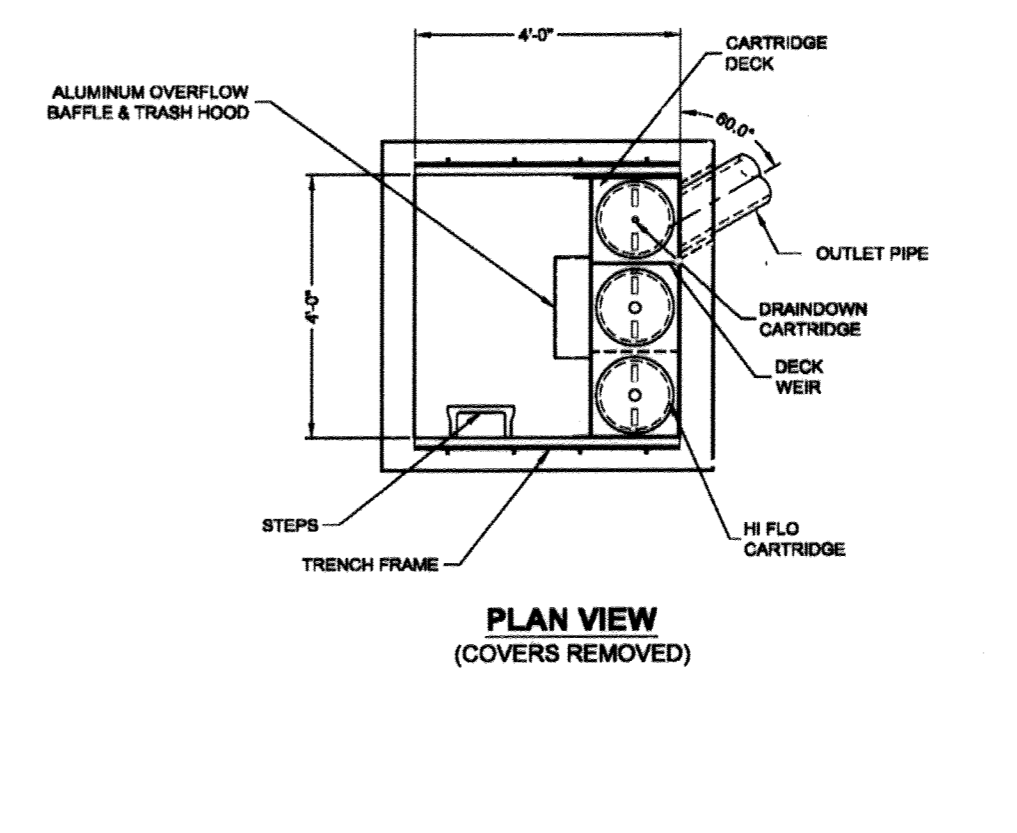
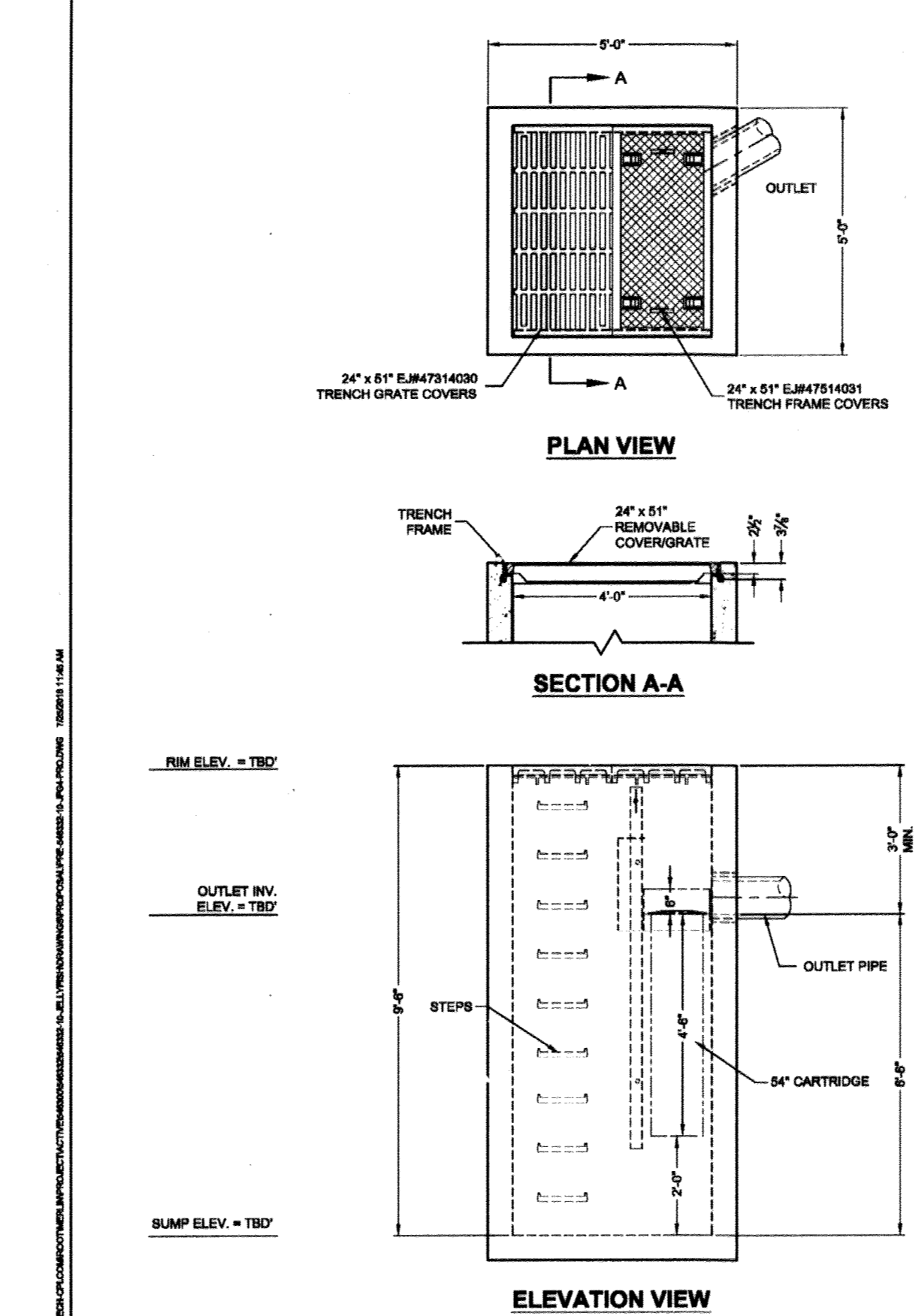
3.2 - Maintenance
3.2.1 - Maintenance Requirements
Required maintenance for the Jellyfish Filter unit is based upon results of the most recent inspection. Historical maintenance records, or the site specific water quality management plan, whichever is more frequent, in general, maintenance requires some combination of the following:

3.3 - Inspection Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.4 - Chemical Spills
If a spill occurs, do not force the cartridge upward as this may cause damage to the cartridge. Do not attempt maintenance. Immediately contact the local hazmat response agency.



- 3.3.2 - Maintenance Tools and Equipment
 - Vacuum truck
 - Ladder
 - Garden hose and low pressure sprayer
 - Riser or cord to lift filter cartridges from the cartridge deck to the surface
 - Adjustable jacks for removing filter cartridge tentacles from cartridge head plate
 - Plastic tub or garbage can for collecting tentacles from rinsed filter cartridge tentacles
 - Access over filter unit
 - Sediment probe (clear hollow tube with check valve)
 - Tape measure
 - Flashlight
 - Camera
 - Inspection and maintenance log documentation
 - Safety cones and caution tape
 - Hard hat, safety shoes, safety glasses, and chemical-resistant gloves
 - No standing water and normal operating condition
 - Standing water inside the backwash pool, but not outside the backwash pool, this condition indicates that the filter cartridges need to be cleaned.
 - Standing water outside the backwash pool may indicate a backwash condition caused by high water elevation in the receiving water body, or possibly a blockage in downstream infrastructure.
- 3.3.3 - Maintenance Procedure
 - Provide traffic control measures as necessary
 - Operate all gates and valves. Use ventilation equipment as required, according to confined space entry procedures
 - Perform inspection prior to maintenance activity
 - To access the cartridge deck for filter cartridge service, descend the ladder and step directly onto the deck. Caution: Do not step onto the maintenance access wall (MAW) or backwash pool wall, as damage may result. Note that the cartridge deck may be slippery.
- 3.3.4 - Filter Cartridge Rinsing Procedure
 - Remove a cartridge lid
 - Remove the cartridge from the receptacle using the lifting loops in the cartridge head plate. Caution: Should
- 3.3.5 - Jellyfish Filter Replacement Parts List
 - 15 inch (381 mm) * 27 inch (686 mm) * 40 inch (1,016 mm) * 54 inch (1,372 mm)
 - H-RFI cartridges (exteriorly threaded and re-commissioned) (Y/N)
 - H-FLO cartridges (exteriorly threaded and re-commissioned) (Y/N)
 - Standard head plate
 - Blank head plate
 - Rim gasket (top head plate)
 - Locking nuts (for tentacles)
 - O-rings (for tentacles)
 - Cartridge lids are available with the following orifice sizes: 70mm, 55mm, 45mm, 35mm, 25mm, 20mm, 15mm, blank lid (no orifice)



MATERIAL LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
2	84" H-FLO CARTRIDGE (70 mm ORIFICE)	CONTECH
2	84" DRAINDOWN CARTRIDGE (58 mm ORIFICE)	CONTECH
0	CARTRIDGE BLANK (NO ORIFICE)	CONTECH
1	JELLYFISH VAULT CARTRIDGE DECK	CONTECH
1	JELLYFISH VAULT BAFFLE & TRASH HOOD (12" x 11" ORIFICE)	CONTECH
8 LF	TRENCH FRAME	CONTECH
1	24" x 51" TRENCH COVER EJ67814031	CONTECH
1	24" x 51" TRENCH GRATE EJ67814030	CONTECH
1	1 P.C. STEPS	CONTECH

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE: WWW.CONTECH.COM
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET ASHSTHO HS-20, ASSUMING EARTH COVER OF 0' - 1', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHSTHO NODE LOAD RATING AND BE CAST WITH THE CONCRETE LOG.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND ASHSTO LOAD FACTOR DESIGN METHOD.
6. ANY SURFACE BACKFILL DEPTH, AND/OR ANTI-FLOTTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
7. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
8. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
9. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
10. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 740-5318.
11. STRUCTURE WEIGHT APPROXIMATE HEAVIEST PICK = TBD LBS.

CONTECH PROPOSAL DRAWING

NO.	REVISION DESCRIPTION	DATE
1	AS-BUILT PLANS	10/15/18

4' x 4' JF04-02 - 546332-010
CHICK-FIL-A - 6375 DOBBIN ROAD
COLUMBIA, MD
for SYSTEM: 4' x 4' JELLYFISH

DATE: 07/27/18
DRAWN BY: DSH
CHECKED BY: MUG
DESIGNED BY: MUG
DATE: 2/12/18
SCALE: 1" = 20'
SHEET NO. 1 OF 1

REFER TO JELLYFISH ACTIVATION LETTER DATED 4/23/18 FROM MANUFACTURER (CONTECH)

Jellyfish® Filter Owner's Manual

Date/Time	Inspector	Maintenance	Visible Oil Present (Y/N)	Oil Quarterly Removal (Y/N)	Flowable Debris Present (Y/N)	Flowable Debris Quarterly Removal (Y/N)	Water Depth in Backwash Pool	Draindown Cartridge Quarterly Removal (Y/N)	New tentacles on Cartridge (Y/N)	H-FLO cartridge quarterly removal and re-commissioned (Y/N)	New tentacles on H-FLO cartridge (Y/N)	Sediment Depth Measured (Y/N)	Locking nuts for tentacles (Y/N)	O-rings for tentacles (Y/N)	Cartridge lids are available with the following orifice sizes: 70mm, 55mm, 45mm, 35mm, 25mm, 20mm, 15mm, blank lid (no orifice) (Y/N)	Cartridge Lid Re-use (Y/N)	Observed Damage	Comments

Jellyfish® Filter Owner's Manual 11

Jellyfish Filter Inspection and Maintenance Log
Owner: _____ GPS Model No: _____
Location: _____ GPS Coordinates: _____
Land Use: Commercial _____ Industrial _____ Service Station _____
Road/Highway: _____ Airport _____ Residential _____ Parking Lot: _____

Chapter 4 - Recommended Safety Procedures
4.1 - Confined Space/Personal Safety Equipment/Warnings and Cautions
Please see reference on page 3.

Chapter 5 - Jellyfish Filter Replacement Parts
Jellyfish membrane filtration cartridges, cartridge components, cartridge lids, other replacement parts can be ordered by contacting Contech Engineering Solutions, Inc.
Phone: 800-336-1122
Website: www.contech.com
Email: info@contech.com

5.1 - Jellyfish Filter Replacement Parts List
Note: Jellyfish Cartridge and/or Filter tentacles are available in the following lengths:
• 15 inch (381 mm) * 27 inch (686 mm) * 40 inch (1,016 mm) * 54 inch (1,372 mm)
• H-FLO cartridges (exteriorly threaded and re-commissioned) (Y/N)
• H-FLO cartridges (exteriorly threaded and re-commissioned) (Y/N)
• Standard head plate
• Blank head plate
• Rim gasket (top head plate)
• Locking nuts for tentacles
• O-rings for tentacles
• Cartridge lids are available with the following orifice sizes: 70mm, 55mm, 45mm, 35mm, 25mm, 20mm, 15mm, blank lid (no orifice)
• Maintenance Access Wall (MAW) extension (18-inch segment)

3.3 - Disposal Procedures
Disposal requirements for recovered pollutants and spent filtration tentacles may vary depending on local guidelines. In most areas the sediment and spent filtration tentacles, once dewatered, can be disposed of in a sanitary landfill. If it is not anticipated that the sediment would be classified as hazardous waste.

Petroleum-based pollutants captured by the Jellyfish Filter, such as oil and fuels, should be removed and disposed of by a licensed petroleum management company.

Although the Jellyfish Filter captures virtually all the oil, a sheen may still be present at the MAW. A rainbow or sheen can be visible at oil concentrations of less than 10 mg/l ppm.

3.2 - Maintenance Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.1 - Inspection
Inspection of the Jellyfish Filter is key in determining the maintenance requirements for the site. A detailed history of the site's pollutant loading characteristics, in general, is needed to determine the appropriate inspection frequency.

3.3.2 - Maintenance Tools and Equipment
Required maintenance for the Jellyfish Filter unit is based upon results of the most recent inspection. Historical maintenance records, or the site specific water quality management plan, whichever is more frequent, in general, maintenance requires some combination of the following:

3.3.3 - Inspection Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.4 - Filter Cartridge Rinsing Procedure
Remove a cartridge lid. Remove the cartridge from the receptacle using the lifting loops in the cartridge head plate. Caution: Should

3.3.5 - Jellyfish Filter Replacement Parts List
Note: Jellyfish Cartridge and/or Filter tentacles are available in the following lengths:
• 15 inch (381 mm) * 27 inch (686 mm) * 40 inch (1,016 mm) * 54 inch (1,372 mm)
• H-FLO cartridges (exteriorly threaded and re-commissioned) (Y/N)
• H-FLO cartridges (exteriorly threaded and re-commissioned) (Y/N)
• Standard head plate
• Blank head plate
• Rim gasket (top head plate)
• Locking nuts for tentacles
• O-rings for tentacles
• Cartridge lids are available with the following orifice sizes: 70mm, 55mm, 45mm, 35mm, 25mm, 20mm, 15mm, blank lid (no orifice)
• Maintenance Access Wall (MAW) extension (18-inch segment)

3.2.5 - Vacuum Cleaning Procedure
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.1 - Inspection
Inspection of the Jellyfish Filter is key in determining the maintenance requirements for the site. A detailed history of the site's pollutant loading characteristics, in general, is needed to determine the appropriate inspection frequency.

3.3.2 - Maintenance Tools and Equipment
Required maintenance for the Jellyfish Filter unit is based upon results of the most recent inspection. Historical maintenance records, or the site specific water quality management plan, whichever is more frequent, in general, maintenance requires some combination of the following:

3.3.3 - Inspection Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.4 - Filter Cartridge Rinsing Procedure
Remove a cartridge lid. Remove the cartridge from the receptacle using the lifting loops in the cartridge head plate. Caution: Should

3.2.5 - Vacuum Cleaning Procedure
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.1 - Inspection
Inspection of the Jellyfish Filter is key in determining the maintenance requirements for the site. A detailed history of the site's pollutant loading characteristics, in general, is needed to determine the appropriate inspection frequency.

3.3.2 - Maintenance Tools and Equipment
Required maintenance for the Jellyfish Filter unit is based upon results of the most recent inspection. Historical maintenance records, or the site specific water quality management plan, whichever is more frequent, in general, maintenance requires some combination of the following:

3.3.3 - Inspection Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.4 - Filter Cartridge Rinsing Procedure
Remove a cartridge lid. Remove the cartridge from the receptacle using the lifting loops in the cartridge head plate. Caution: Should

3.2.5 - Vacuum Cleaning Procedure
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.1 - Inspection
Inspection of the Jellyfish Filter is key in determining the maintenance requirements for the site. A detailed history of the site's pollutant loading characteristics, in general, is needed to determine the appropriate inspection frequency.

3.3.2 - Maintenance Tools and Equipment
Required maintenance for the Jellyfish Filter unit is based upon results of the most recent inspection. Historical maintenance records, or the site specific water quality management plan, whichever is more frequent, in general, maintenance requires some combination of the following:

3.3.3 - Inspection Tools and Equipment
The following procedures are recommended when performing a Jellyfish Filter inspection:

3.3.4 - Filter Cartridge Rinsing Procedure
Remove a cartridge lid. Remove the cartridge from the receptacle using the lifting loops in the cartridge head plate. Caution: Should

APPROVED: DEPARTMENT OF PLANNING AND ZONING
W. J. Seibel 2-7-17
Director - Department of Planning and Zoning

APPROVED: CHIEF-DEVELOPMENT ENGINEERS DIVISION
M. J. Gezell 2-3-17
DATE

APPROVED: CHIEF-DIVISION OF LAND DEVELOPMENT
M. J. Gezell 2-7-17
DATE

BOHLER ENGINEERING
SITE-CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

NEW YORK • NEW JERSEY • SOUTH CAROLINA • NORTH CAROLINA
FLORIDA • TEXAS • CALIFORNIA • ARIZONA
ALABAMA • MISSISSIPPI • LOUISIANA • MISSOURI
ILLINOIS • INDIANA • OHIO • PENNSYLVANIA
DELAWARE • MARYLAND • VIRGINIA
NEW HAMPSHIRE • VERMONT
MAINE • NEW BRUNSWICK • CONNECTICUT
DISTRICT OF COLUMBIA • WASHINGTON DC
HAWAII

REVISIONS

REV	DATE	COMMENT	BY
6	10/15/18	AS-BUILT PLANS	ISL

CONTECH
Jellyfish® Filter

FOR REVISION ONLY (AS-BUILT INFORMATION)
MICHAEL J. GESELL
PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 44047

APPROVED FOR CONSTRUCTION

PROJECT: **SITE DEVELOPMENT PLAN**

FOR: **Chick-fil-A**

LOCATION OF SITE
6375 DOBBIN ROAD
COLUMBIA, MD 21045
HOWARD COUNTY
DOBBIN COMMERCIAL CENTER

BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21284
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

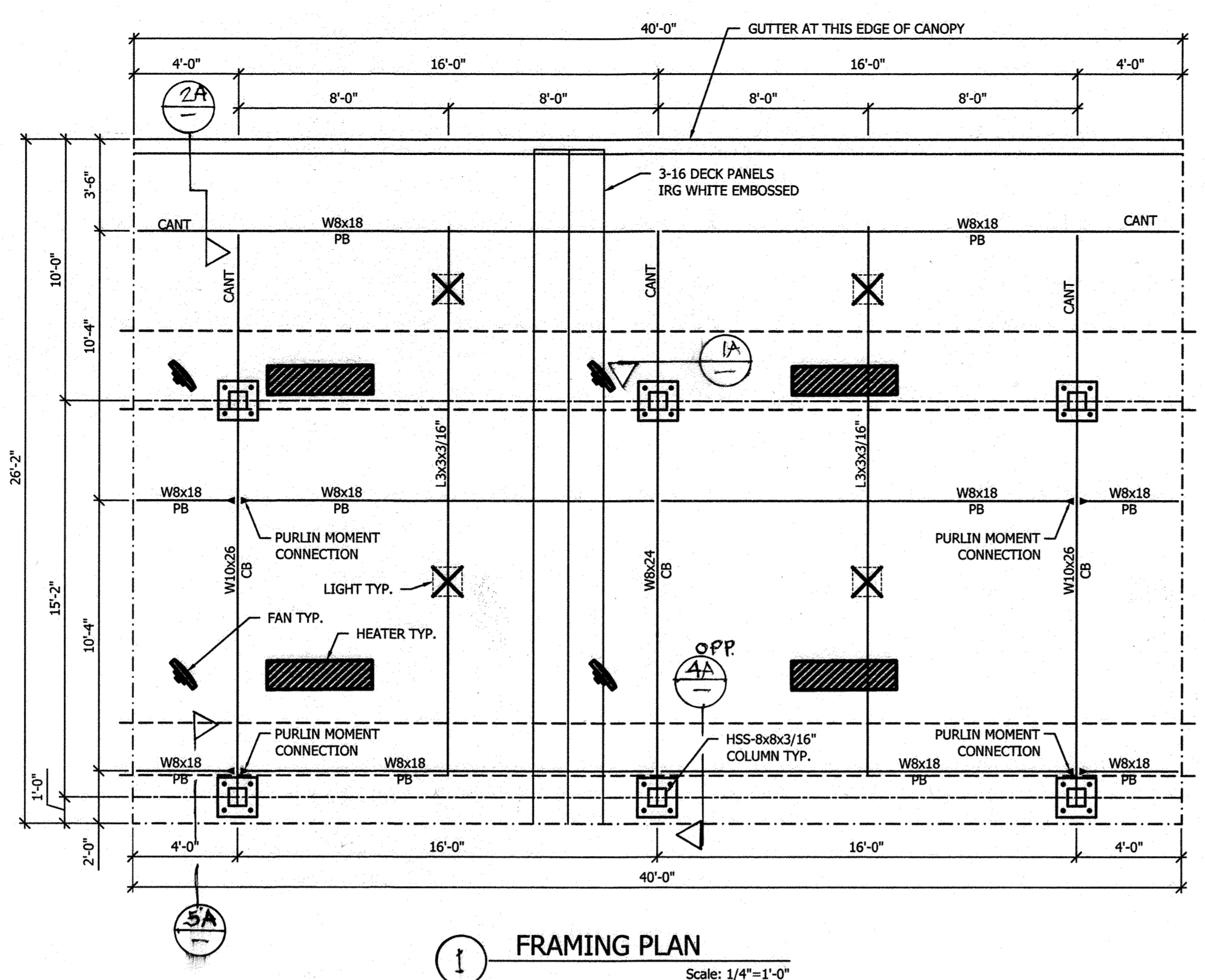
STORMWATER MANAGEMENT DETAIL

SHEET NUMBER: **PS-4**
15 OF 17

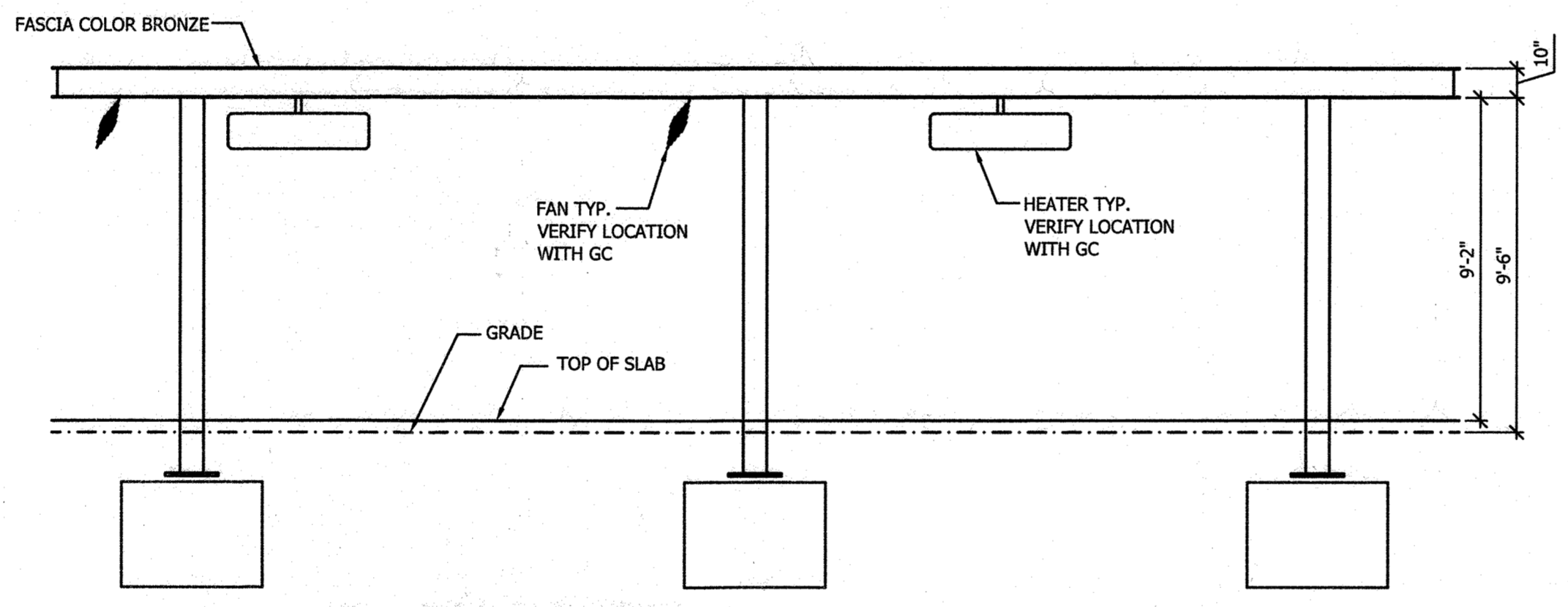
SDP-03-96



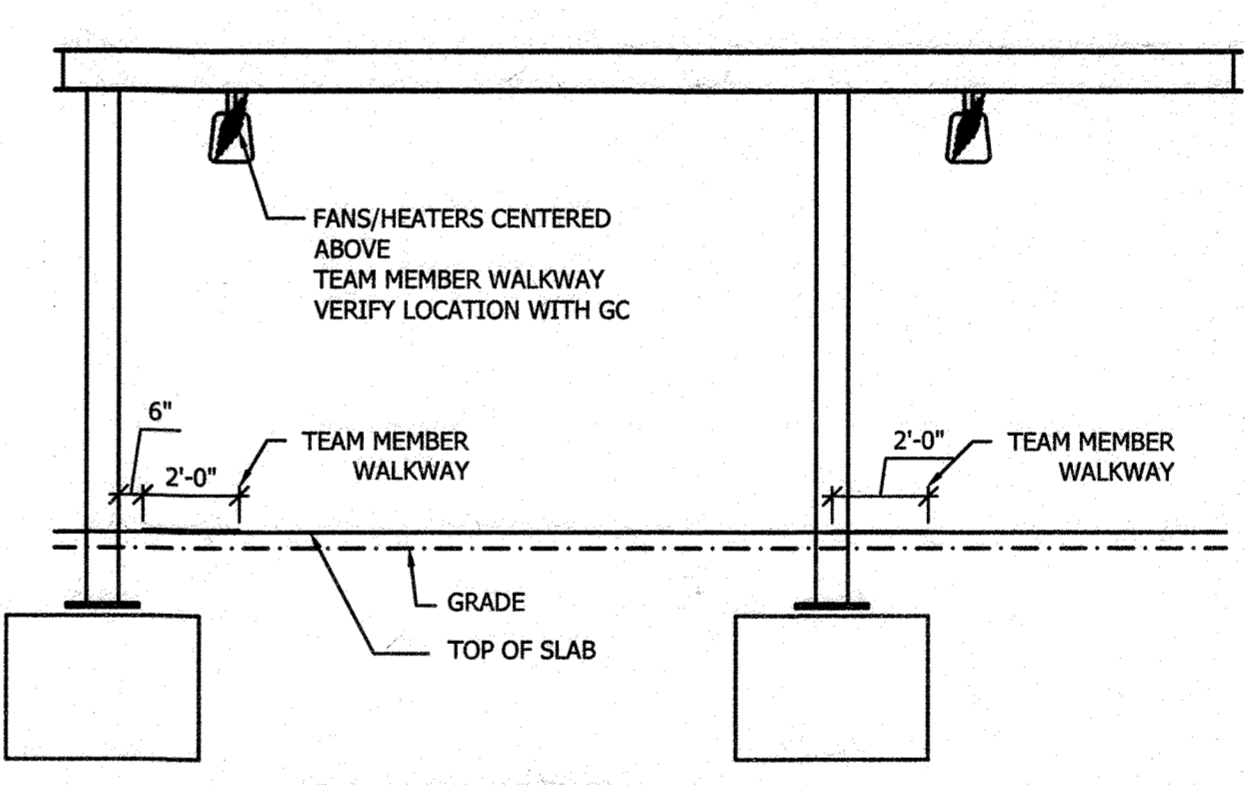
REV.	DATE	BY	DESCRIPTION
1	6/23/20	JDG	FOR APPROVAL / PERMIT



1 FRAMING PLAN
Scale: 1/4"=1'-0"



2 SIDE ELEVATION
Scale: 1/4"=1'-0"



3 END ELEVATION
Scale: 1/4"=1'-0"

STEEL NOTES

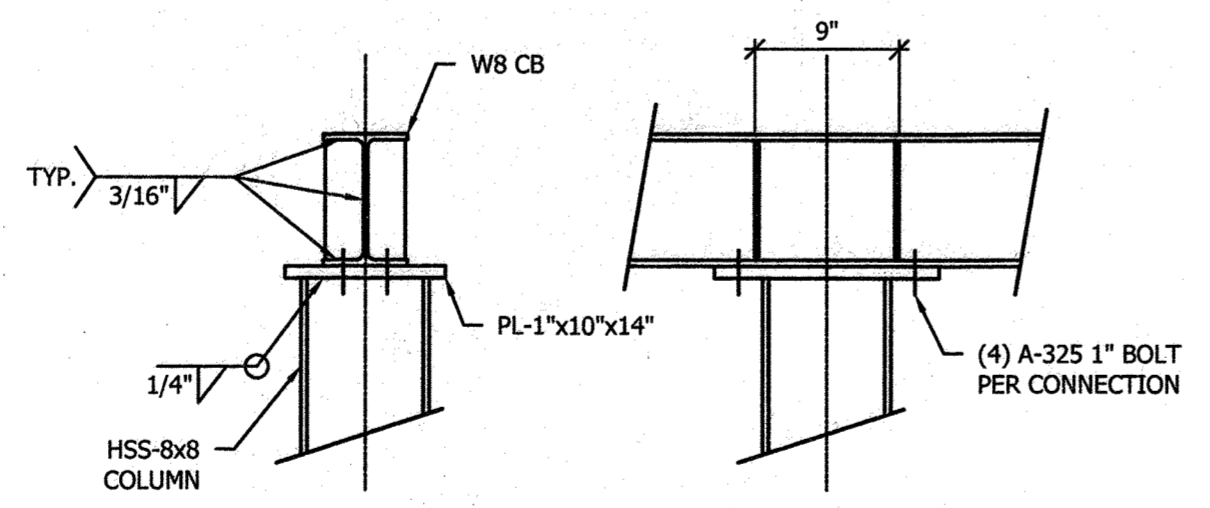
- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
- STRUCTURAL MATERIALS:
 WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (F_y = 50 KSI)
 ANGLES / CHANNELS - ASTM A36 (F_y = 36 KSI)
 HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (F_y = 46 KSI)
 PIPE SECTIONS - ASTM A53, GRADE B (F_y = 35 KSI)
 PLATE - ASTM A36 (F_y = 36 KSI)
 ROOF DECK - ASTM A653, GRADE 50 (F_y = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
 STEEL OUTRIGGERS - ASTM A653 GR. CS (F_y = 25 KSI), GALVANIZED (G90) PER ASTM 924
- ANCHOR BOLTS - ASTM F1554 GR. 36
- WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
- FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
- ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
- STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
- DESIGN LOADS PER 2018 INTERNATIONAL BUILDING CODE WITH MD AND AMENDMENTS AND LOCAL REQUIREMENTS:

ROOF LIVE LOAD = 30 PSF
 FLAT ROOF SNOW LOAD = 33.6 PSF + DRIFT@ADJACENT BUILDING
 BASED ON GROUND SNOW LOAD= 40 PSF
 RAIN SURCHARGE= 5 PSF

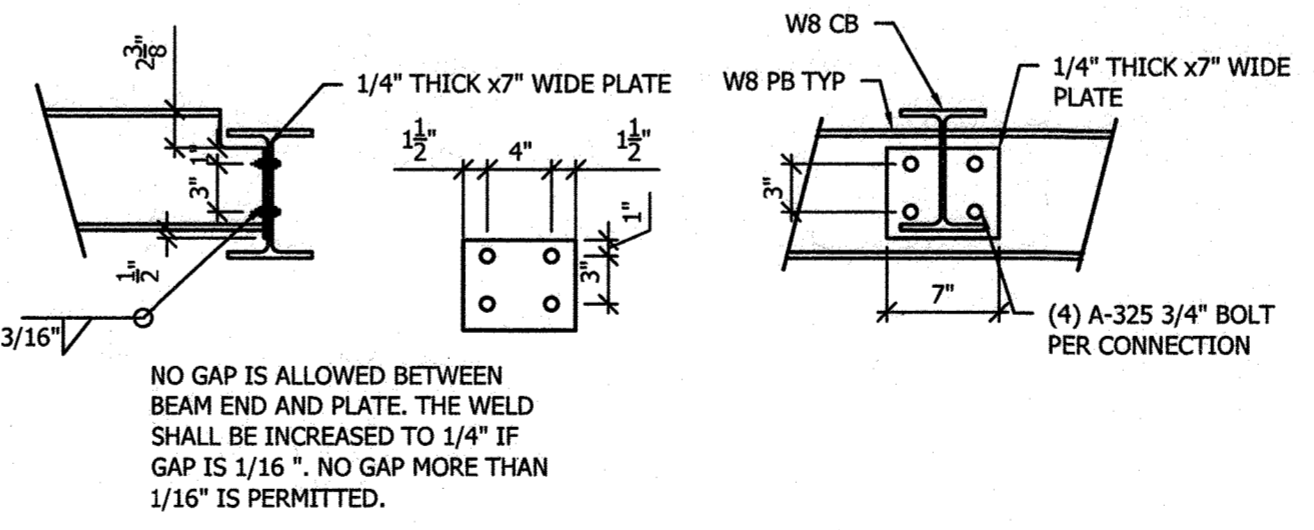
WIND LOADS:
 LATERAL = 41.0 PSF (ULTIMATE)
 UPLIFT = 18.8 PSF (ULTIMATE)
 BASED ON 115 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'B' PER ASCE 7-10.
 RISK CATEGORY II

SEISMIC LOADS:
 SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
 S_w = 0.132g (S_s = 0.124g, F_a = 1.60), S_{dh} = 0.082g (S_h = 0.051g, F_v = 2.40)
 SEISMIC RESISTING SYSTEM - ORDINARY CANTILEVERED COLUMN SYSTEM, R = 1.25
 C_s = 0.106

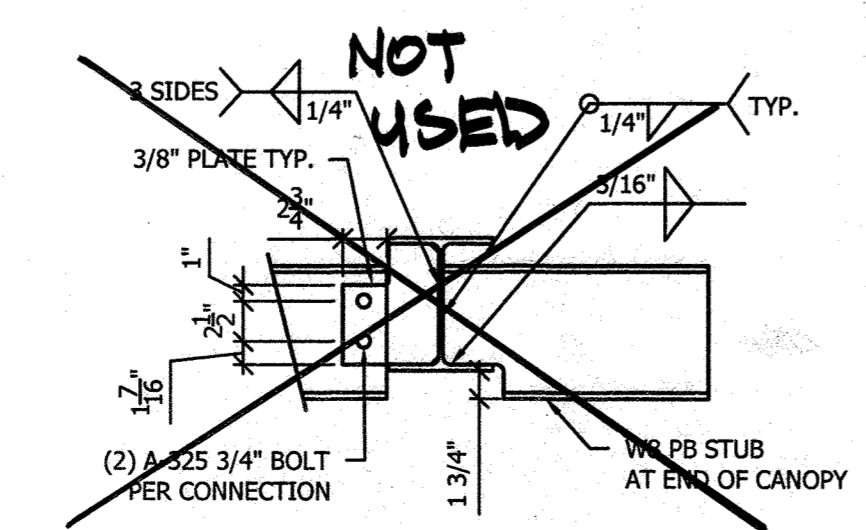
DEAD LOADS:
 DECK / GUTTER / LIGHTS - 4.5 PSF
 FASCIA - 4.5 PSF (PER DESIGN)
 STRUCTURAL STEEL - SELF WT
 CONCRETE - 150 PCF



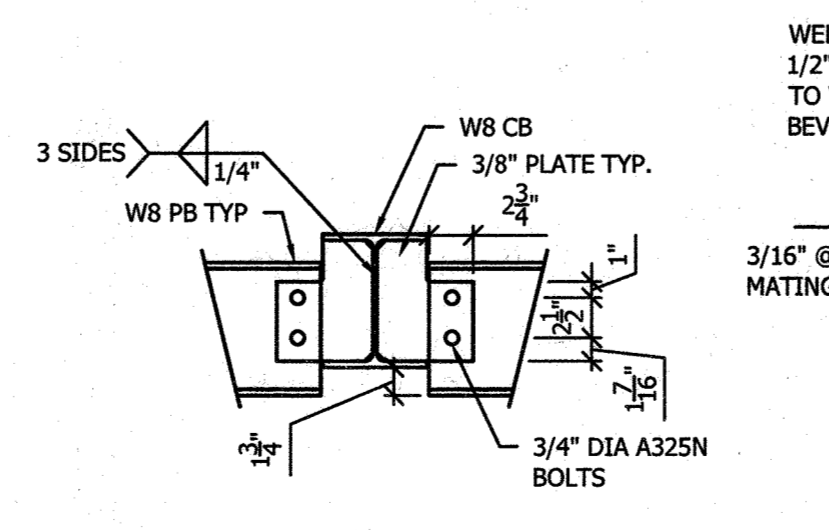
1A TYP. COLUMN / CROSSBEAM CONNECTION



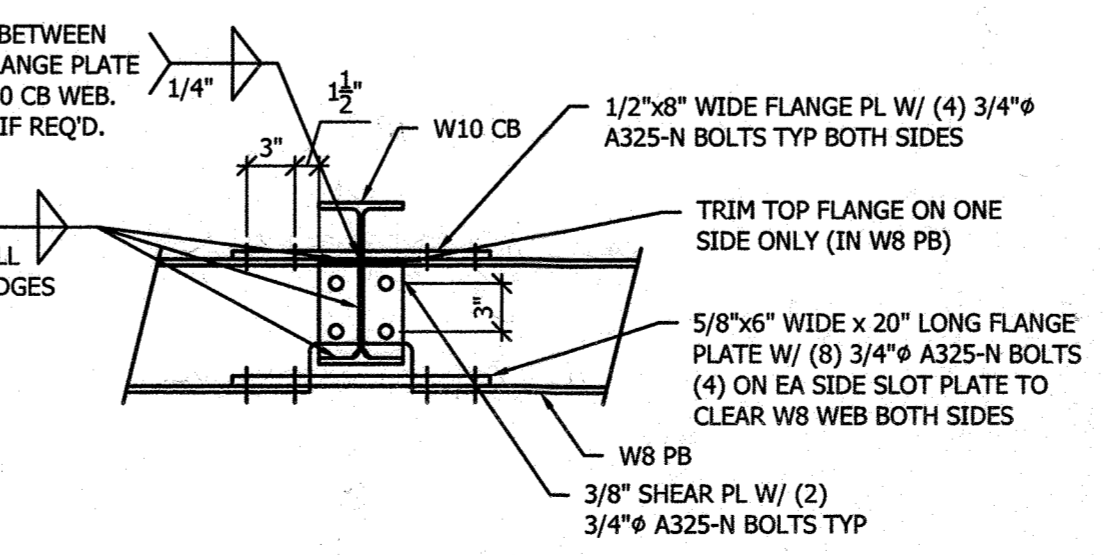
2A TYP. CONTINUOUS W8 PURLIN CONNECTION



3A STUB PURLIN CONNECTION



4A TYP. INNER PURLIN CONNECTION



5A TYP. PURLIN MOMENT CONNECTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

4-29-21
 Date

5-10-21
 Date



1019 E. North Street
 Ottawa, Kansas 66067
 Phone: 785.242.8111
 Fax: 785.242.2022

THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF FASHION INC. IS PROHIBITED

SITE:
 CHICK-FIL-A #1454
 6375 DOBBIN RD
 COLUMBIA, MD
 (6) COLUMN CANOPY
 F2F CANOPY

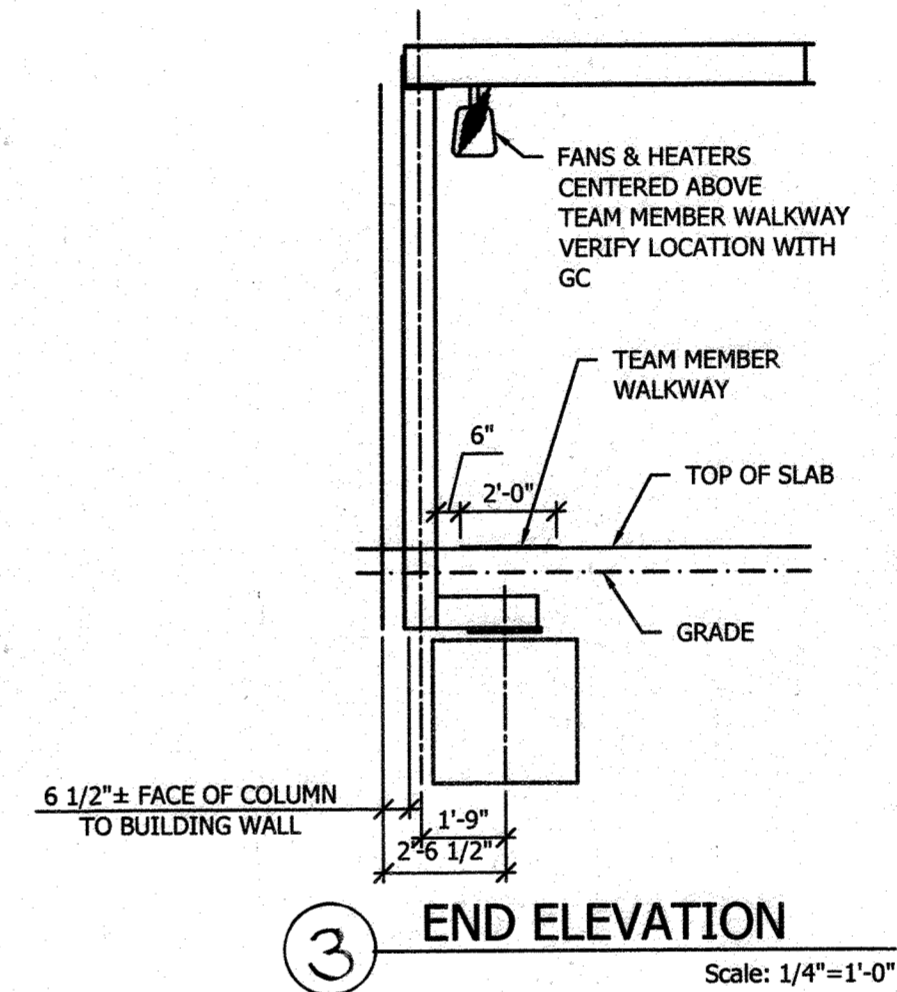
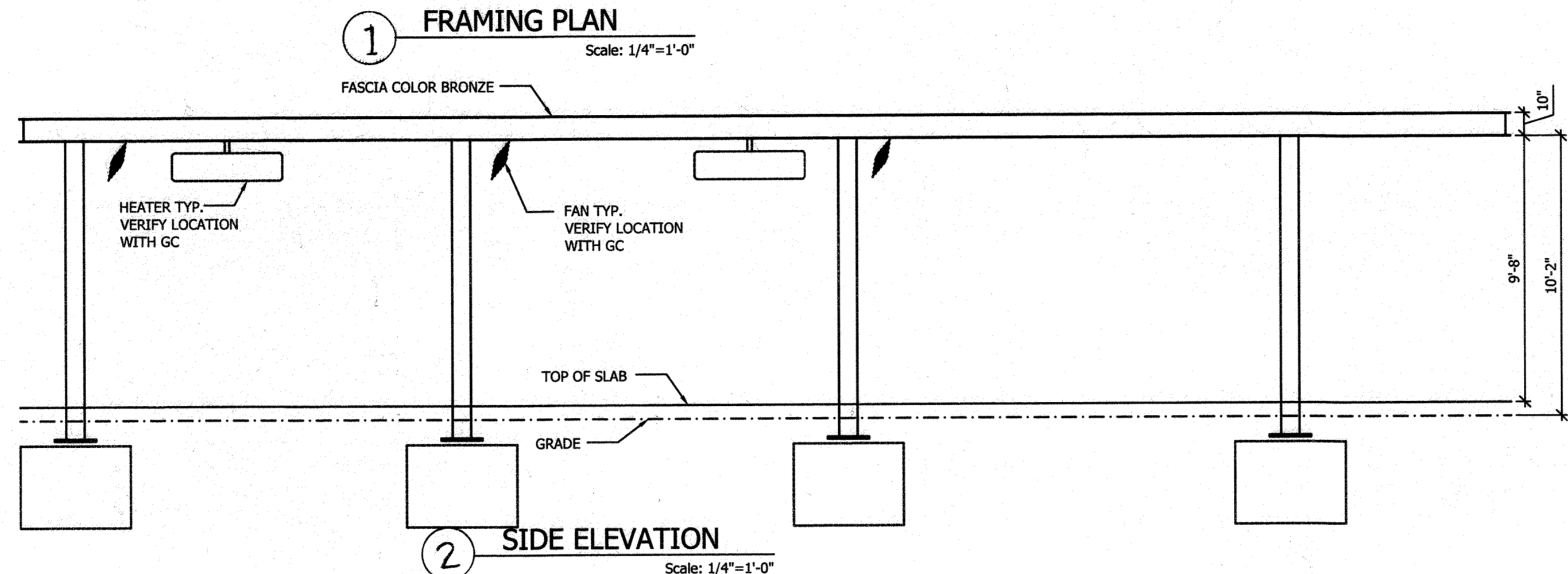
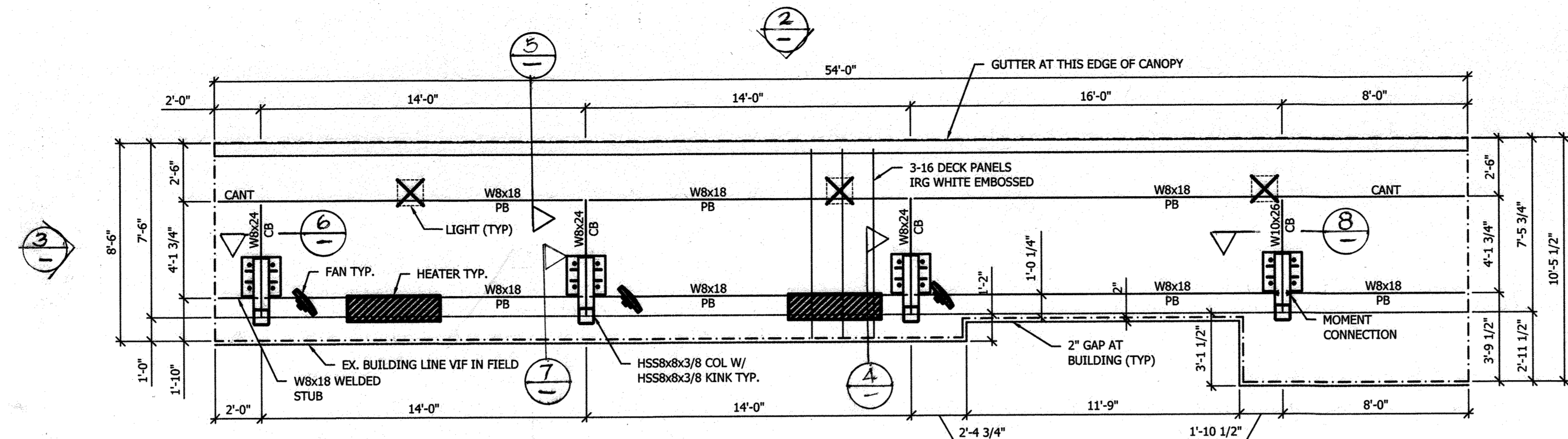
SCALE: AS SHOWN
 DRAWN BY: MPP
 CHECKED BY: AP

JOB NUMBER:
 66375

SHEET TITLE:
 FRAMING PLAN

SHEET NUMBER:
 16 OF 17

SDP-03-096



STEEL NOTES

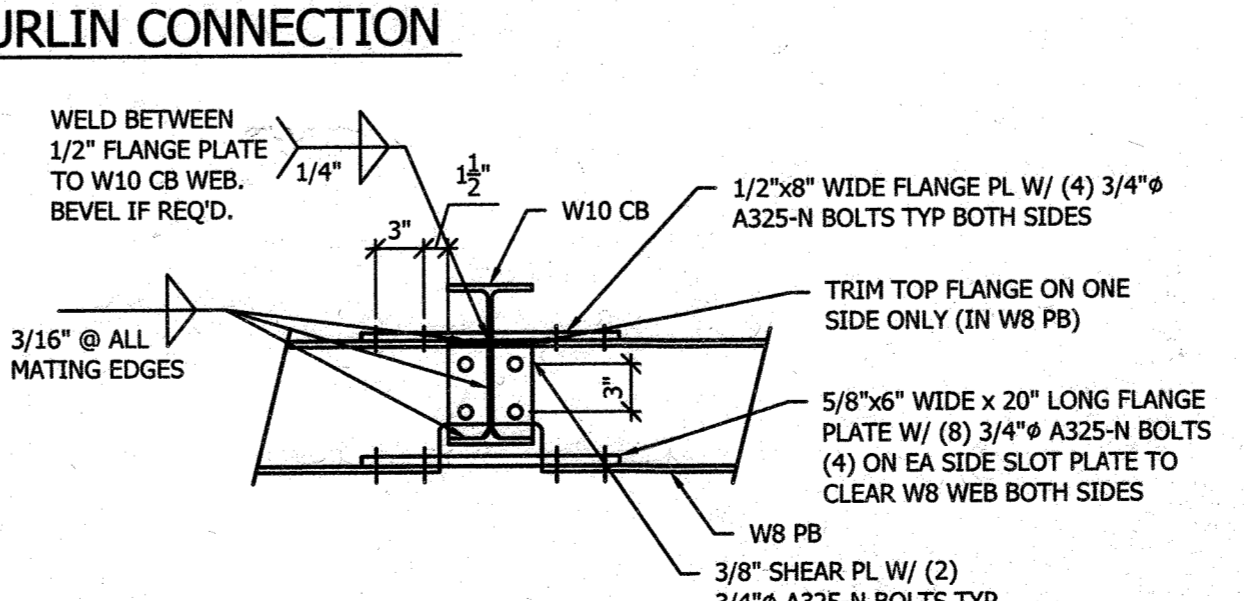
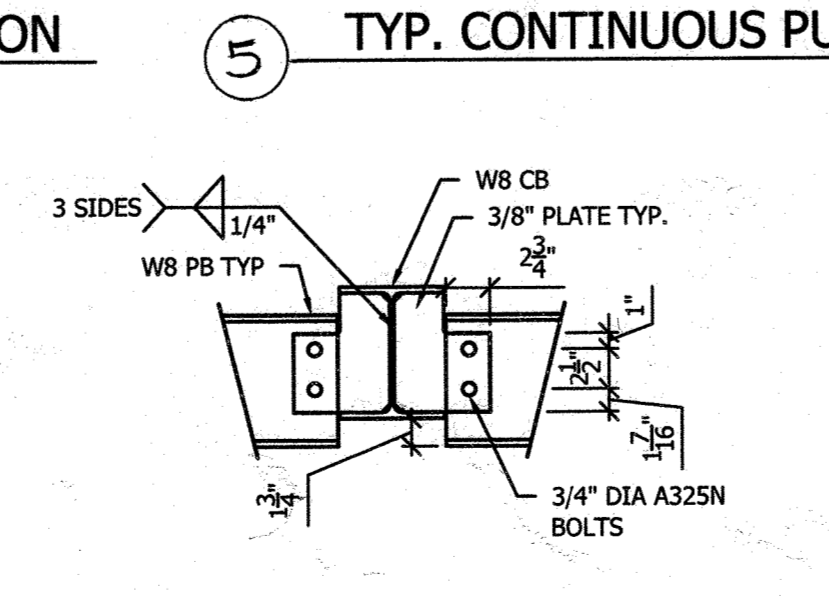
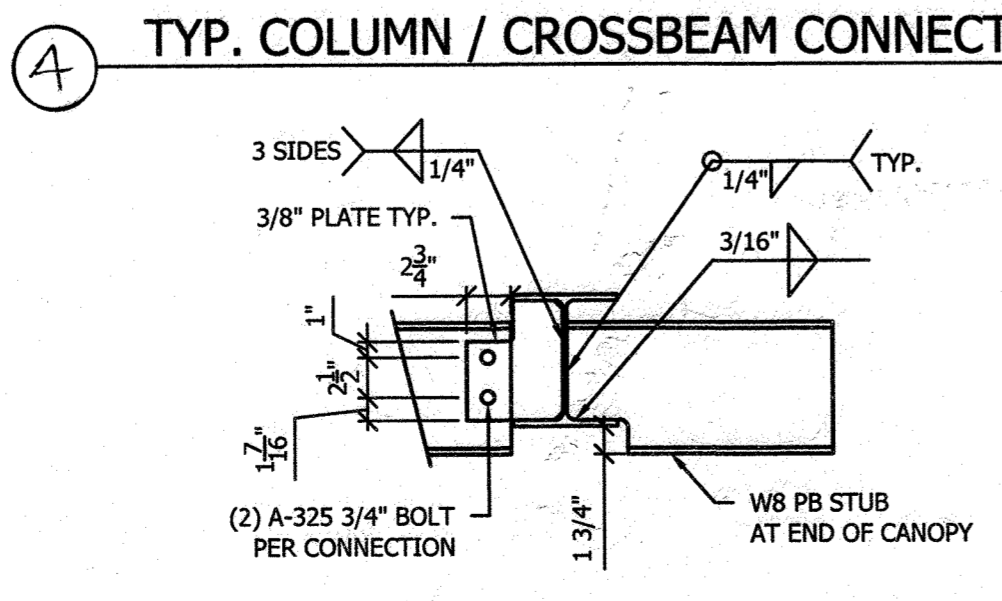
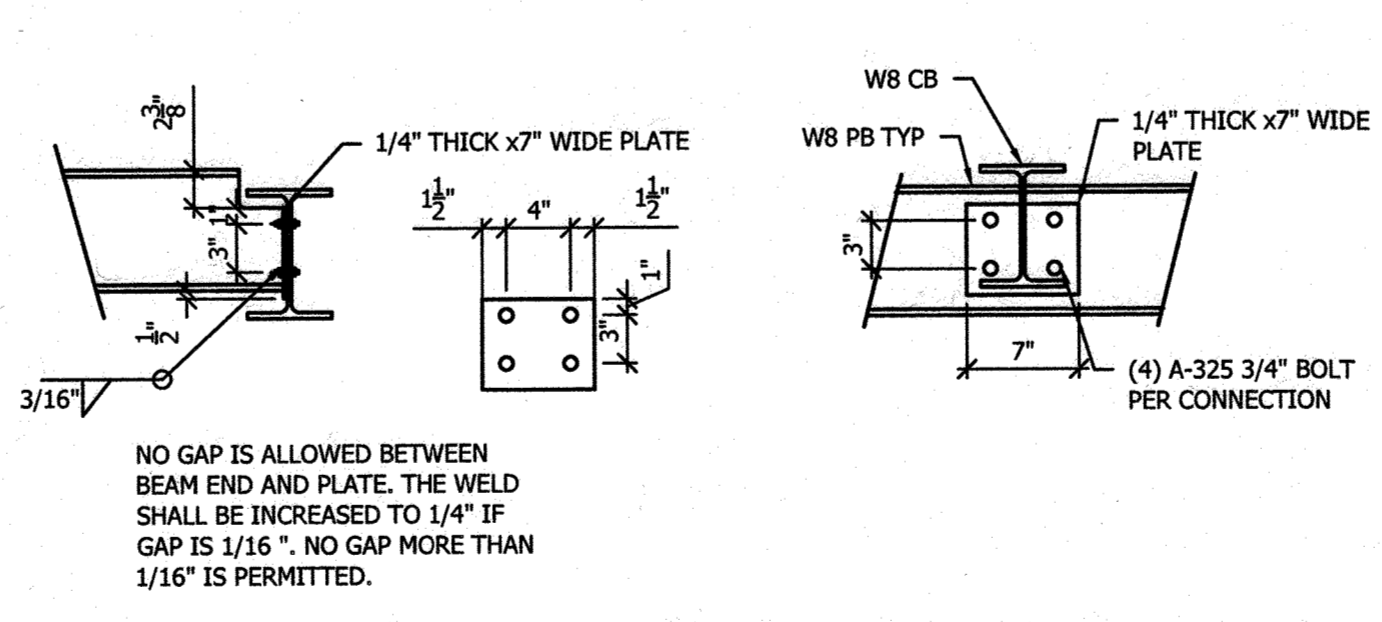
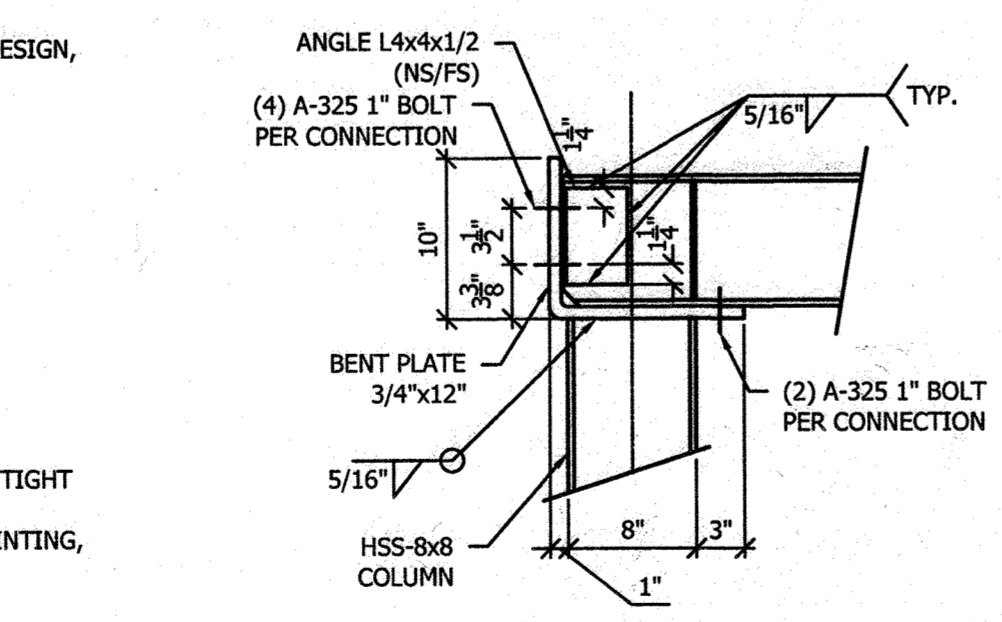
- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
- STRUCTURAL MATERIALS:
WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 ($F_y = 50$ KSI)
ANGLES / CHANNELS - ASTM A36 ($F_y = 36$ KSI)
HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B ($F_y = 46$ KSI)
PIPE SECTIONS - ASTM A53, GRADE B ($F_y = 35$ KSI)
PLATE - ASTM A36 ($F_y = 36$ KSI)
ROOF DECK - ASTM A653, GRADE 50 ($F_y = 50$ KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
STEEL OUTRIGGERS - ASTM A653 GR. CS ($F_y = 25$ KSI), GALVANIZED (G90) PER ASTM 924
STRUCTURAL BOLTS - ASTM A325
ANCHOR BOLTS - ASTM F1554 GR. 36
- WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
- FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
- ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
- STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
- DESIGN LOADS PER 2018 INTERNATIONAL BUILDING CODE WITH MD AND AMENDMENTS AND LOCAL REQUIREMENTS:

ROOF LIVE LOAD = 30 PSF
FLAT ROOF SNOW LOAD = 33.6 PSF + DRIFT@ADJACENT BUILDING
BASED ON GROUND SNOW LOAD = 40 PSF
RAIN SURCHARGE = 5 PSF

WIND LOADS:
LATERAL = 41.0 PSF (ULTIMATE)
UPLIFT = 18.8 PSF (ULTIMATE)
BASED ON 115 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'B' PER ASCE 7-10.
RISK CATEGORY II

SEISMIC LOADS:
SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
 $S_{DS} = 0.132g$ ($S_s = 0.124g$, $F_a = 1.60$), $S_{D1} = 0.082g$ ($S_1 = 0.051g$, $F_v = 2.40$)
SEISMIC RESISTING SYSTEM - ORDINARY CANTILEVERED COLUMN SYSTEM, $R = 1.25$
 $C_s = 0.106$

DEAD LOADS:
DECK / GUTTER / LIGHTS - 4.5 PSF
FASCIA - 4.5 PSF (PER DESIGN)
STRUCTURAL STEEL - SELF WT
CONCRETE - 150 PCF



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *JP* Date *4-29-21*

Chief, Division of Land Development *SP* Date *5/10/21*

Director *GM* Date *5-18-21*

FOR APPROVAL / PERMIT		REVISION HISTORY	
JDG	BY	DATE	DESCRIPTION
6/23/2020			
1	REV.		

Signature



1019 E. North Street
Ottawa, Kansas 66067
Phone: 785.242.8111
Fax: 785.242.2022

THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF FASHION INC. IS PROHIBITED

SITE: CHICK-FIL-A #1454
6375 DOBBIN RD
COLUMBIA, MD

(4) COLUMN CANOPY
OMD CANOPY

SCALE: AS SHOWN DRAWN BY: MPP CHECKED BY: AP

JOB NUMBER: 61454.1

SHEET TITLE: FRAMING PLAN

SHEET NUMBER: 17 OF 17

SDP-03-096