LEGEND

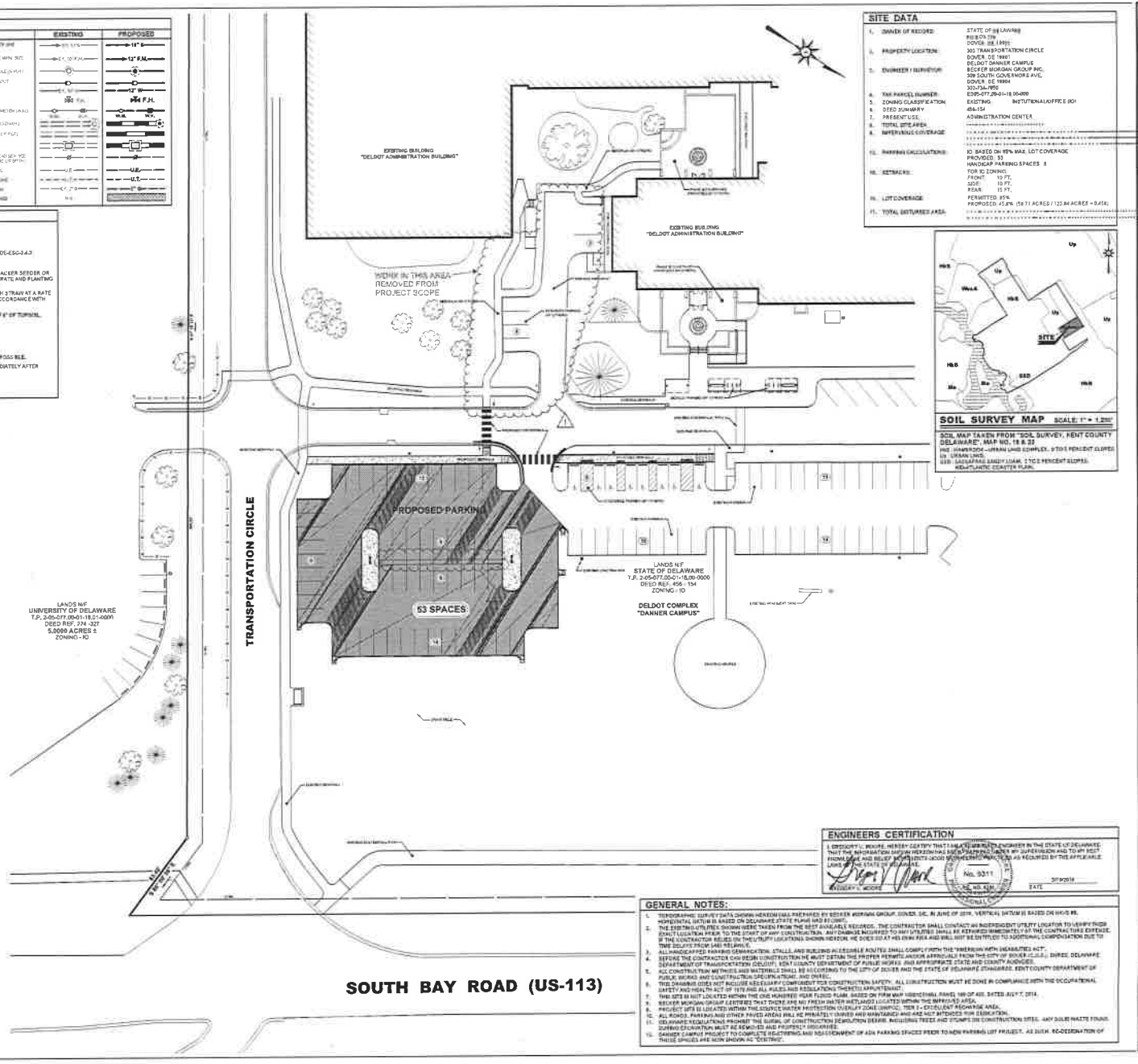
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONCRETE CURB & GUTTER			SANITARY SEWER LINE SIZE & FLOW DIRECTION	8" S.S.	18" S.
CONCRETE SIDEWALK (5' WIDE)			SANITARY SEWER FORCE MAIN SIZE & FLOW DIRECTION	6" F.M.	12" F.M.
WATER MAIN (SIZE & DEPTH)			SANITARY SEWER MANHOLE (S.M.H.)		
OF PARKING LOT			SANITARY SEWER CLEANOUT		
INDIVIDUAL TREE OR PLANT	EUONYMUS 36"-24"	N.A.	WATER MAIN & SIZE	8" W.	12" W.
HEDGEROW			BENCH GROUP		
CHAIN LINK FENCE			WATER VALVE (INDICATE TYPE OF METER (W.M.))	W.V.	W.V.
STONE (CONCRETE MASS, METAL STOP)			STORM DRAIN MANHOLE (S.D.M.H.)		
DRAINAGE DITCH OR CHANNEL			STORM DRAIN LINE (INDICATE TYPE)		
DRAINAGE (SPECIFY DOWN)			CATCH BASIN		
GRADE			GROUND ELEVATION (SPECIFY TO TELEPHONE OR ELECTRIC OPTIONAL)		
ELEVATION (GROUND OR FLOOR)	26.45	26.45 FT. 26.25 FT.	UNDERGROUND ELECTRIC	U.E.	U.E.
BENCHMARK			UNDERGROUND TELEPHONE	U.T.	U.T.
INVERT OF MANHOLE OR PIPE		N.A.	OVERHEAD ELECTRIC	E	E
SIDEWALK			OVERHEAD TELEPHONE	T	T
LIGHT POLE					

STABILIZATION AND SEEDING NOTES :

1. PERMANENT SEEDING:
   A. SHALL BE CONDUCTED YEAR ROUND.
   B. SEED BED PREPARATION: SHALL BE IN ACCORDANCE WITH DE-ESC-3.4.2, SHEET 4 OF 4.
   C. SOIL AMENDMENTS: FERTILIZER AND LIME APPLICATION SHALL BE IN ACCORDANCE WITH DE-ESC-3.4.3 SHEET 4 OF 4.
   D. SEEDING: APPLY PERMANENT SEEDING MIX NO. 7. APPLY SEED UNIFORMLY WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER. ALL SEED WILL BE APPLIED AT THE RECOMMENDED RATE AND PLANTING DEPTH IN ACCORDANCE WITH DE-ESC-3.4.3.
   E. MULCH: IMMEDIATELY AFTER SEEDING UNIFORMLY MULCH ENTIRE AREA WITH STRAW AT A RATE OF 2 TONS PER ACRE MINIMUM. ALL MULCHING SHALL BE DONE IN ACCORDANCE WITH DETAIL DE-ESC-3.4.5.
   F. TOPSOIL: ALL AREAS TO BE PERMANENTLY SEEDED SHALL HAVE A MINIMUM OF 6" OF TOPSOIL.
2. TEMPORARY STABILIZATION (AS NEEDED):
   A. PROVIDE SEED BED SAME AS (1A) ABOVE.
   B. APPLY MIX NO. 5 (WARM) IN ACCORDANCE WITH DETAIL DE-ESC-3.4.3 SHEET 1 OF 4.
   C. MULCH SAME AS (1E) ABOVE.
3. IF TEMPORARY STABILIZATION IS REQUIRED, PERMANENT SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.
4. ALL FILL SLOPE AREAS SHOWN ON PLAN ARE TO BE STABILIZED AS PER STATEMENT 1 OR 2 ABOVE IMMEDIATELY AFTER COMPLETION OF GRADING OPERATIONS FOR THESE SLOPES.
5. EROSION CONTROL MATTING IS REQUIRED ON ALL SLOPES OF 3:1 OR GREATER.
6. TURF REINFORCED MATTING IS REQUIRED ON ALL AREAS OF CONCENTRATED FLOW.

VICINITY MAP SCALE: 1" = 1200'

LOCATION MAP SCALE: 1" = 400'



SITE DATA

1.	OWNER OF RECORD:	STATE OF DELAWARE PO BOX 778 DOVER, DE 19901
2.	PROPERTY LOCATION:	303 TRANSPORTATION CIRCLE DOVER, DE 19901 DELDOT DANNER CAMPUS
3.	ENGINEER / SURVEYOR:	BECKER MORGAN GROUP INC. 309 SOUTH GOVERNORS AVE. DOVER, DE 19904 302-734-7950
4.	TAX PARCEL NUMBER:	ED05-077.00-01-18.00-000
5.	ZONING CLASSIFICATION:	EXISTING: INSTITUTIONAL/OFFICE (IO)
6.	DEED SUMMARY:	458-134
7.	PRESENT USE:	ADMINISTRATION CENTER
8.	TOTAL SITE AREA:	----------
9.	IMPERVIOUS COVERAGE:	----------
10.	PARKING CALCULATIONS:	IO: BASED ON 85% MAX. LOT COVERAGE PROVIDED: 53 HANDICAP PARKING SPACES: 8
10.	SETBACKS:	FOR IO ZONING: FRONT: 10 FT. SIDE: 10 FT. REAR: 15 FT.
10.	LOT COVERAGE:	PERMITTED: 85% PROPOSED: 45.8% (58.71 ACRES / 128.84 ACRES = 0.456)
11.	TOTAL DISTURBED AREA:	----------

SOIL SURVEY MAP SCALE: 1" = 1,200'

SOIL MAP TAKEN FROM "SOIL SURVEY, KENT COUNTY DELAWARE", MAP NO. 18 & 23
HsB - HAMBROOK—URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES
Up - URBAN LAND
SED - SASSAFRAS SANDY LOAM, 2 TO 5 PERCENT SLOPES, MID-ATLANTIC COASTER PLAIN.

ENGINEERS CERTIFICATION

I, GREGORY L. MOORE, HEREBY CERTIFY THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE THAT THE INFORMATION SHOWN HEREON WAS PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF MEETS THE STATE OF DELAWARE LAWS AND REGULATIONS GOOD ENGINEERING PRACTICE AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

GREGORY L. MOORE — No. 9311 — SEAL NO. 9311 — DATE: 3/14/2019

GENERAL NOTES:

1. TOPOGRAPHIC SURVEY DATA SHOWN HEREON WAS PREPARED BY BECKER MORGAN GROUP, DOVER, DE. IN JUNE OF 2018. VERTICAL DATUM IS BASED ON NAVD 88. HORIZONTAL DATUM IS BASED ON DELAWARE STATE PLANE NAD 83 (1996).
2. THE EXISTING UTILITIES SHOWN WERE TAKEN FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL CONTACT AN INDEPENDENT UTILITY LOCATOR TO VERIFY THEIR EXACT LOCATION PRIOR TO THE START OF ANY CONSTRUCTION. ANY DAMAGE INCURRED TO ANY UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR RELIES ON THEIR UTILITY LOCATIONS SHOWN HEREON, HE DOES SO AT HIS OWN RISK AND WILL NOT BE ENTITLED TO ADDITIONAL COMPENSATION DUE TO TIME DELAYS FROM SAID RELIANCE.
3. ALL HANDICAPPED PARKING GENERATION, STALLS, AND BUILDING ACCESSIBLE ROUTES SHALL COMPLY WITH THE "AMERICAN WITH DISABILITIES ACT".
4. BEFORE THE CONTRACTOR CAN BEGIN CONSTRUCTION HE MUST OBTAIN THE PROPER PERMITS AND/OR APPROVALS FROM THE CITY OF DOVER (C.O.D.), DHREC, DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT), KENT COUNTY DEPARTMENT OF PUBLIC WORKS AND APPROPRIATE STATE AND COUNTY AGENCIES.
5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE ACCORDING TO THE CITY OF DOVER AND THE STATE OF DELAWARE STANDARDS, KENT COUNTY DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, AND DHREC.
6. THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENT FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
7. THIS SITE IS NOT LOCATED WITHIN THE ONE HUNDRED YEAR FLOOD PLAIN, BASED ON FIRM MAP NUMBER 0401, PANEL 180 OF 400, DATED JULY 7, 2014.
8. BECKER MORGAN GROUP CERTIFIES THAT THERE ARE NO FRESH WATER WETLANDS LOCATED WITHIN THE IMPROVED AREA.
9. PROJECT SITE IS LOCATED WITHIN THE SOURCE WATER PROTECTION OVERLAY ZONE (SWPO). THIS IS EXCELLENT RECHARGE AREA.
10. ALL ROADS, PARKING AND OTHER PAVED AREAS WILL BE PRIVATELY OWNED AND MAINTAINED AND ARE NOT INTENDED FOR DEDICATION.
11. DELAWARE REGULATIONS PROHIBIT THE BURIAL OF CONSTRUCTION DEMOLITION DEBRIS, INCLUDING TREES AND STUMPS ON CONSTRUCTION SITES. ANY SUCH WASTE FOUND DURING EXCAVATION MUST BE REMOVED AND PROPERLY DISCARDED.
12. DANNER CAMPUS PROJECT TO COMPLETE RESTRIPING AND MEASUREMENT OF ADA PARKING SPACES PRIOR TO NEW PARKING LOT PROJECT. AS SUCH, RE-DESIGNATION OF THESE SPACES ARE NOW SHOWN AS "EXISTING".

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

SCALE : 1" = 30'

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REVISIONS

1 REVISED PER ADDENDUM #3 (04/22/2019)

PROJECT
STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT
DELDOT PHASE II PARKING LOT EXPANSION
AT
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE: OVERALL LAYOUT PLAN

CONSTRUCTION DOCUMENTS
MARCH 15, 2019

DRAWN	CHECKED BY
T.D.G.	C.D.C.

DISCIPLINE: CIVIL
SHEET NO.: C-100
PROJECT NO.: 18062

LEGEND

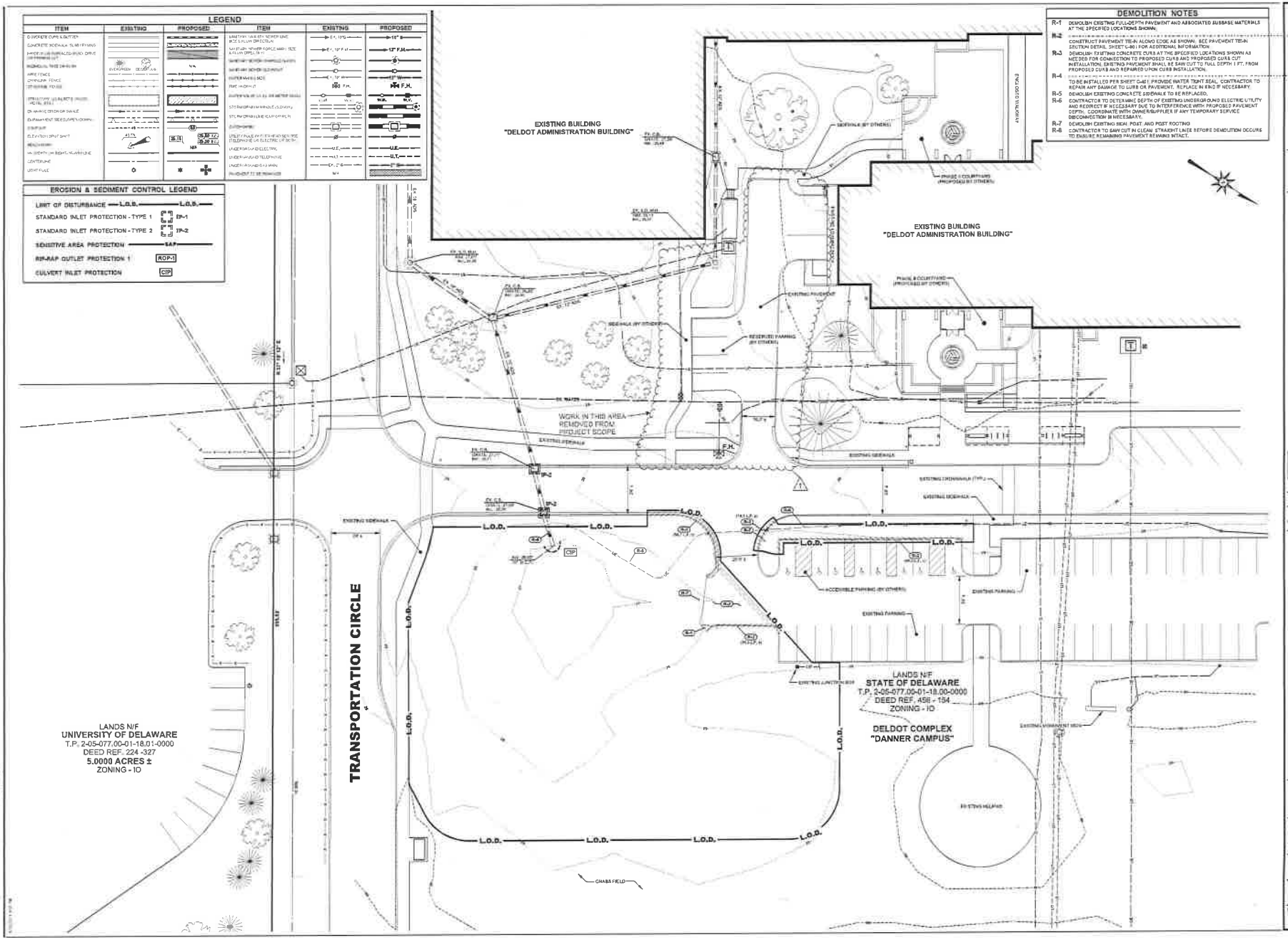
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONCRETE CURB & GUTTER			SANITARY SEWER MAIN (SIZE & FLOW DIRECTION)		
CONCRETE SIDEWALK / SLAB PAVING			SANITARY SEWER FORCE MAIN (SIZE & FLOW DIRECTION)		
UNDERGROUND PAVED DRIVE (INTERMITTENT)			SANITARY SEWER CLEANOUT		
DECIDUOUS TREE DRIPLINE	EVERGREEN DECIDUOUS	N/A	SANITARY SEWER MANHOLE		
WIRE FENCE			SANITARY SEWER LATERAL		
CHAINLINK FENCE			STORM DRAIN MAIN (SIZE & FLOW DIRECTION)		
STOCKADE FENCE			STORM DRAIN MANHOLE (CLOSED)		
STRUCTURE (SEE INLET & PIPE INFO. BELOW)			STORM DRAIN LINE (CLIP OFF R.O.W.)		
DRAINAGE DITCH OR SWALE			STORM DRAIN		
PAVEMENT SEE CLOSER LOOKS			UTILITY POLE (W/ TELEPHONE & ELECTRIC UP BOTH)		
STRIPING			UNDERGROUND ELECTRIC		
ELEVATION (INPUT SHOT)			UNDERGROUND TELEPHONE		
BENCHMARK			UNDERGROUND GAS MAIN		
PROPERTY LINE (RIGHT OF WAY LINE)			PAVEMENT TO BE REMOVED		
CENTERLINE					
LIGHT POLE					

EROSION & SEDIMENT CONTROL LEGEND

LIMIT OF DISTURBANCE	L.O.D.
STANDARD INLET PROTECTION - TYPE 1	SP-1
STANDARD INLET PROTECTION - TYPE 2	SP-2
SENSITIVE AREA PROTECTION	S.A.P.
RIP-RAP OUTLET PROTECTION 1	ROP-1
CULVERT INLET PROTECTION	CIP

DEMOLITION NOTES

- R-1 DEMOLISH EXISTING FULL-DEPTH PAVEMENT AND ASSOCIATED SUBBASE MATERIALS AT THE SPECIFIED LOCATIONS SHOWN.
- R-2 CONSTRUCT PAVEMENT TIE-IN ALONG EDGE AS SHOWN. SEE PAVEMENT TIE-IN SECTION DETAIL, SHEET C-401 FOR ADDITIONAL INFORMATION.
- R-3 DEMOLISH EXISTING CONCRETE CURB AT THE SPECIFIED LOCATIONS SHOWN AS NEEDED FOR CONNECTION TO PROPOSED CURB AND PROPOSED CURB CUT INSTALLATION. EXISTING PAVEMENT SHALL BE SAW CUT TO FULL DEPTH 1 FT. FROM PROPOSED CURB AND REPAIRED UPON CURB INSTALLATION.
- R-4 TO BE INSTALLED PER SHEET C-401. PROVIDE WATER TIGHT SEAL. CONTRACTOR TO REPAIR ANY DAMAGE TO CURB OR PAVEMENT. REPLACE IN KIND IF NECESSARY.
- R-5 DEMOLISH EXISTING CONCRETE SIDEWALK TO BE REPLACED.
- R-6 CONTRACTOR TO DETERMINE DEPTH OF EXISTING UNDERGROUND ELECTRIC UTILITY AND REDIRECT IF NECESSARY DUE TO INTERFERENCE WITH PROPOSED PAVEMENT DEPTH. COORDINATE WITH OWNER/SUPPLIER IF ANY TEMPORARY SERVICE DISCONNECTION IS NECESSARY.
- R-7 DEMOLISH EXISTING SIGN, POST, AND POST ROOTING
- R-8 CONTRACTOR TO SAW CUT IN CLEAN, STRAIGHT LINES BEFORE DEMOLITION OCCURS TO ENSURE REMAINING PAVEMENT REMAINS INTACT.



BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

SCALE : 1" = 20'

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REVISIONS

REVISED PER ADDENDUM #3 04/30/2019

PROJECT

STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT

DELDOT PHASE II PARKING LOT EXPANSION

AT

KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE

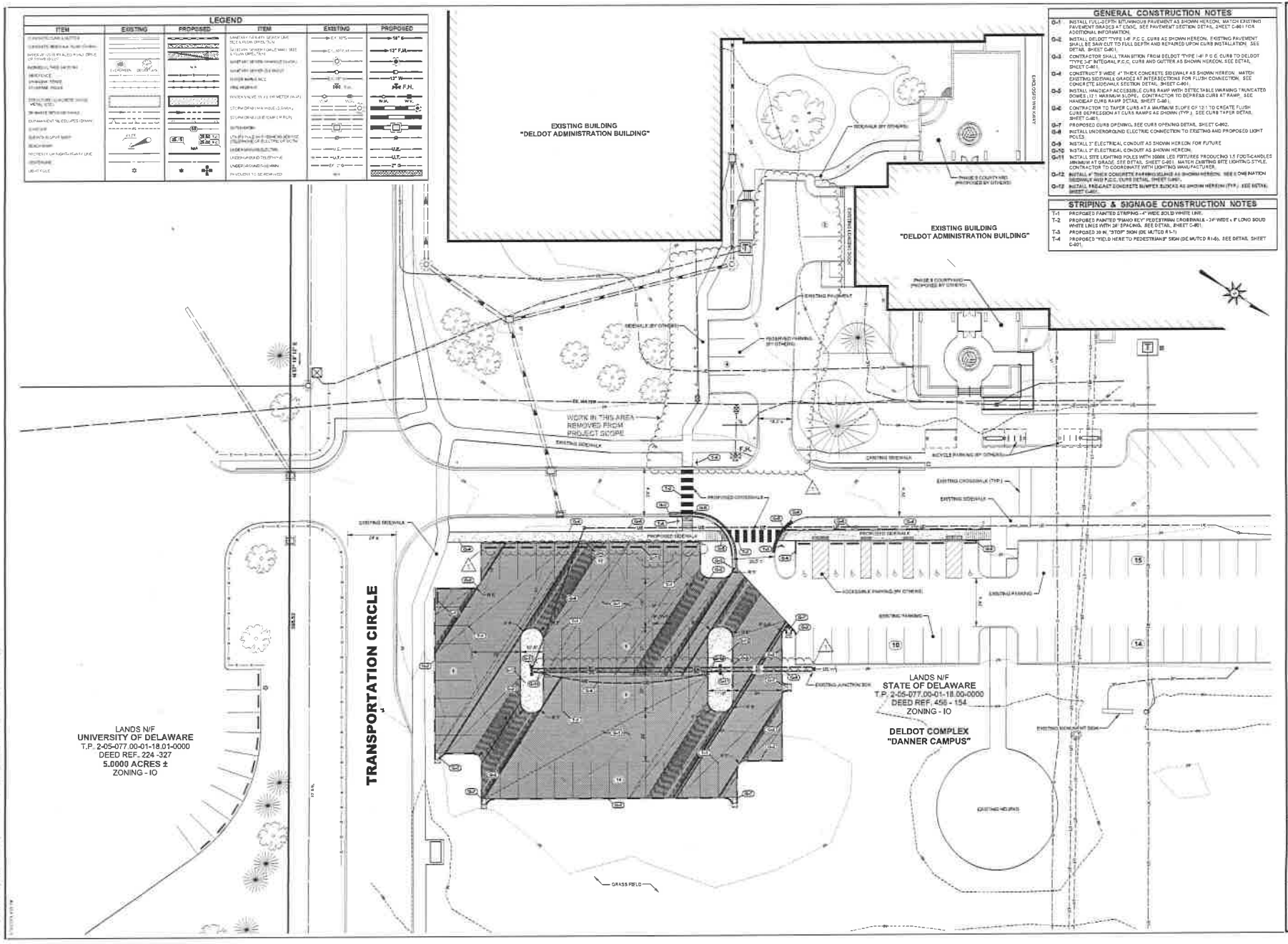
EXISTING CONDITIONS & DEMOLITION PLAN

CONSTRUCTION DOCUMENTS
MARCH 15, 2019

DRAWN	CHECKED/DESIGNED
T.D.G.	C.D.C.

DISCIPLINE	SHEET NO.
CIVIL	C-101

PROJECT NO. 18062



LEGEND

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
[illegible]			[illegible]		

GENERAL CONSTRUCTION NOTES

G-1 INSTALL FULL-DEPTH BITUMINOUS PAVEMENT AS SHOWN HEREON. MATCH EXISTING PAVEMENT GRADES AT EDGE. SEE PAVEMENT SECTION DETAIL, SHEET C-601 FOR ADDITIONAL INFORMATION.

G-2 INSTALL DELDOT TYPE I-6F P.C.C. CURB AS SHOWN HEREON. EXISTING PAVEMENT SHALL BE SAW CUT TO FULL DEPTH AND REPAIRED UPON CURB INSTALLATION. SEE DETAIL, SHEET C-601.

G-3 CONTRACTOR SHALL TRANSITION FROM DELDOT TYPE I-6F P.C.C. CURB TO DELDOT TYPE 3-F INTEGRAL P.C.C. CURB AND GUTTER AS SHOWN HEREON. SEE DETAIL, SHEET C-601.

G-4 CONSTRUCT 5' WIDE 4" THICK CONCRETE SIDEWALK AS SHOWN HEREON. MATCH EXISTING SIDEWALK GRADES AT INTERSECTIONS FOR FLUSH CONNECTION. SEE CONCRETE SIDEWALK SECTION DETAIL, SHEET C-601.

G-5 INSTALL HANDICAP ACCESSIBLE CURB RAMP WITH DETECTABLE WARNING TRUNCATED DOMES (12:1 MAXIMUM SLOPE). CONTRACTOR TO DEPRESS CURB AT RAMP. SEE HANDICAP CURB RAMP DETAIL, SHEET C-601.

G-6 CONTRACTOR TO TAPER CURB AT A MAXIMUM SLOPE OF 12:1 TO CREATE FLUSH CURB DEPRESSION AT CURB RAMPS AS SHOWN (TYP.). SEE CURB TAPER DETAIL, SHEET C-601.

G-7 PROPOSED CURB OPENING. SEE CURB OPENING DETAIL, SHEET C-602.

G-8 INSTALL UNDERGROUND ELECTRIC CONNECTION TO EXISTING AND PROPOSED LIGHT POLES.

G-9 INSTALL 2" ELECTRICAL CONDUIT AS SHOWN HEREON FOR FUTURE

G-10 INSTALL 2" ELECTRICAL CONDUIT AS SHOWN HEREON.

G-11 INSTALL SITE LIGHTING POLES WITH 300W LED FIXTURES PRODUCING 1.5 FOOT-CANDLES MINIMUM AT GRADE. SEE DETAIL, SHEET C-601. MATCH EXISTING SITE LIGHTING STYLE. CONTRACTOR TO COORDINATE WITH LIGHTING MANUFACTURER.

G-12 INSTALL 4" THICK CONCRETE PARKING BLOCKS AS SHOWN HEREON. SEE DIMENSION SIDEWALK AND P.C.C. CURB DETAIL, SHEET C-601.

G-13 INSTALL PRECAST CONCRETE BUMPER BLOCKS AS SHOWN HEREON (TYP.). SEE DETAIL, SHEET C-601.

STRIPING & SIGNAGE CONSTRUCTION NOTES

T-1 PROPOSED PAINTED STRIPING - 4" WIDE SOLID WHITE LINE.

T-2 PROPOSED PAINTED "PIANO KEY" PEDESTRIAN CROSSWALK - 24" WIDE x 6' LONG SOLID WHITE LINES WITH 36" SPACING. SEE DETAIL, SHEET C-601.

T-3 PROPOSED 30 IN. "STOP" SIGN (DE MUTCD R1-1)

T-4 PROPOSED "YIELD HERE TO PEDESTRIANS" SIGN (DE MUTCD R1-5). SEE DETAIL, SHEET C-601.

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

0 10 20 40

SCALE : 1" = 20'

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REVISIONS

1 REVISED PER ADDENDUM #3 (4/23/2019)

PROJECT

STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT

DELDOT PHASE II PARKING LOT EXPANSION
AT
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE
OVERALL SITE, SIGNAGE & STRIPING PLAN

CONSTRUCTION DOCUMENTS
MARCH 15, 2019

DRAWN: T.D.G.
CHECKED/SEALED: C.D.C.

DISCIPLINE: CIVIL
SHEET NO.: C-201

PROJECT NO.: 18062

LEGEND

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
[illegible]			[illegible]		

EROSION & SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE — L.O.D. —
- STANDARD INLET PROTECTION - TYPE 1 — IP-1
- STANDARD INLET PROTECTION - TYPE 2 — IP-2
- SENSITIVE AREA PROTECTION — S.A.P. —
- RIP-RAP OUTLET PROTECTION 1 — RIP-1
- CULVERT INLET PROTECTION — CIP

STORM SEWER CONSTRUCTION NOTES

D-1 INSTALL STORM DRAIN CATCH BASIN AT LOCATIONS SHOWN (TYP.). SEE STORM DRAIN CATCH BASIN SCHEDULE AND DELDOT STANDARD DETAIL D-6 FOR BASIN TYPE, SEE, GRATE, AND INVERTS.

D-2 INSTALL STORM DRAIN MANHOLE AT LOCATIONS SHOWN (TYP.). SEE STORM DRAIN MANHOLE SCHEDULE AND DELDOT STANDARD DETAIL D-8 FOR MANHOLE TYPE, COVER, SIZE, AND INVERTS.

D-3 INSTALL 15 INCH REINFORCED CONCRETE STORM DRAIN PIPE AT LOCATIONS SHOWN (TYP.). SEE STORM DRAIN PIPE SCHEDULE FOR PIPE ANGLES AND INVERTS.

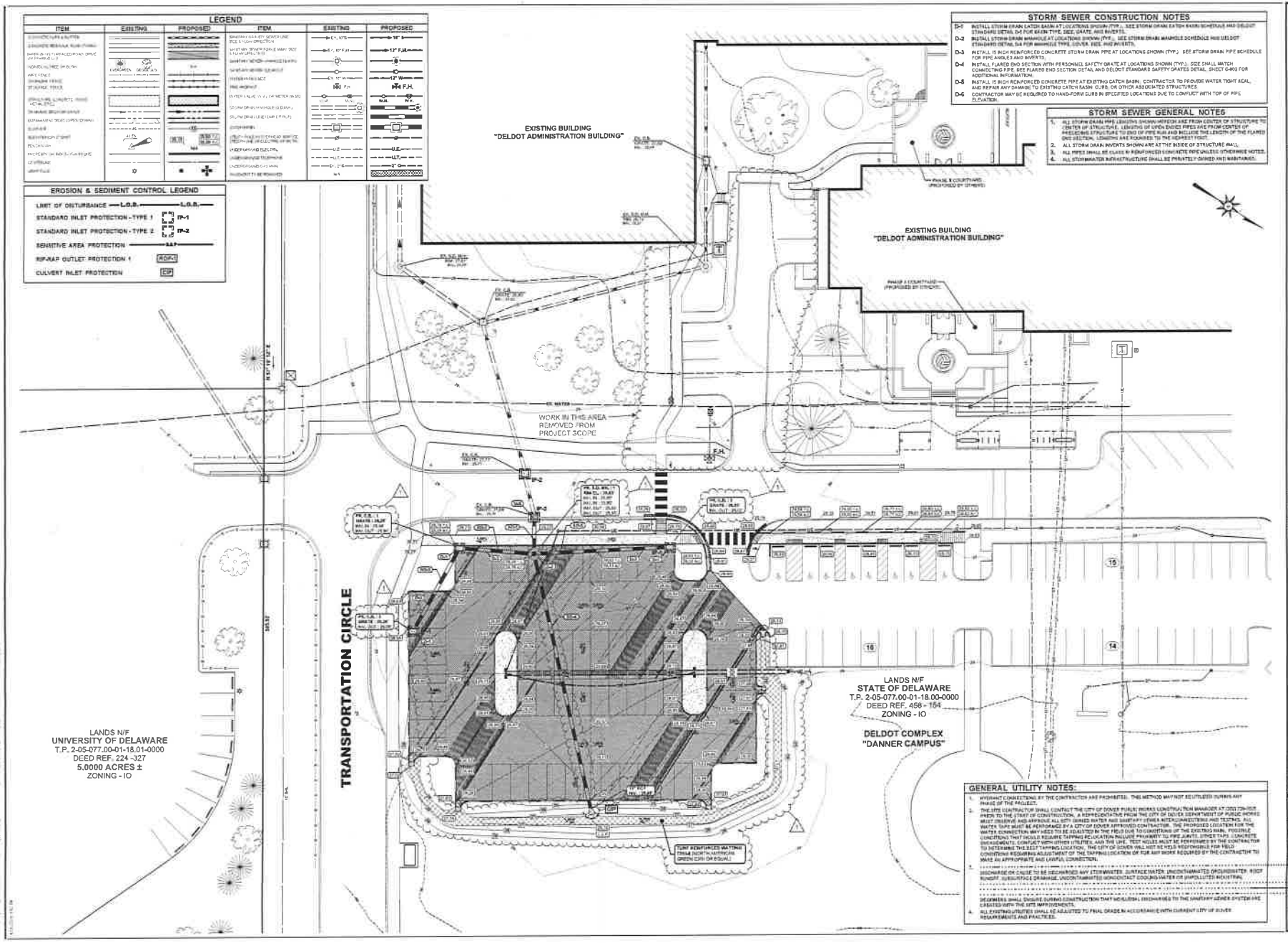
D-4 INSTALL FLARED END SECTION WITH PERSONNEL SAFETY GRATE AT LOCATIONS SHOWN (TYP.). SIZE SHALL MATCH CONNECTING PIPE. SEE FLARED END SECTION DETAIL AND DELDOT STANDARD SAFETY GRATES DETAIL, SHEET C-602 FOR ADDITIONAL INFORMATION.

D-5 INSTALL 15 INCH REINFORCED CONCRETE PIPE AT EXISTING CATCH BASIN. CONTRACTOR TO PROVIDE WATER TIGHT SEAL, AND REPAIR ANY DAMAGE TO EXISTING CATCH BASIN CURB, OR OTHER ASSOCIATED STRUCTURES.

D-6 CONTRACTOR MAY BE REQUIRED TO HAND-FORM CURB IN SPECIFIED LOCATIONS DUE TO CONFLICT WITH TOP OF PIPE ELEVATION.

STORM SEWER GENERAL NOTES

1. ALL STORM DRAIN PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. LENGTHS OF OPEN ENDED PIPES ARE FROM CENTER OF PRECEDING STRUCTURE TO END OF PIPE RUN AND INCLUDE THE LENGTH OF THE FLARED END SECTION. LENGTHS ARE ROUNDED TO THE NEAREST FOOT.
2. ALL STORM DRAIN INVERTS SHOWN ARE AT THE INSIDE OF STRUCTURE WALL.
3. ALL PIPES SHALL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
4. ALL STORMWATER INFRASTRUCTURE SHALL BE PRIVATELY OWNED AND MAINTAINED.



GENERAL UTILITY NOTES:

1. HYDRANT CONNECTIONS BY THE CONTRACTOR ARE PROHIBITED. THIS METHOD MAY NOT BE UTILIZED DURING ANY PHASE OF THE PROJECT.
2. THE SITE CONTRACTOR SHALL CONTACT THE CITY OF DOVER PUBLIC WORKS CONSTRUCTION MANAGER AT (302) 736-7025 PRIOR TO THE START OF CONSTRUCTION. A REPRESENTATIVE FROM THE CITY OF DOVER DEPARTMENT OF PUBLIC WORKS MUST OBSERVE AND APPROVE ALL CITY OWNED WATER AND SANITARY SEWER INTERCONNECTIONS AND TESTING. ALL WATER TAPS MUST BE PERFORMED BY A CITY OF DOVER APPROVED CONTRACTOR. THE PROPOSED LOCATION FOR THE WATER CONNECTION MAY NEED TO BE ADJUSTED IN THE FIELD DUE TO CONDITIONS OF THE EXISTING MAIN. POSSIBLE CONDITIONS THAT WOULD REQUIRE TAPPING RELOCATION INCLUDE INTERFERENCE WITH PIPE JOINTS, OTHER TAPS, CONCRETE ENCASEMENTS, CONFLICT WITH OTHER UTILITIES, AND THE LIKE. TEST HOLES MUST BE PERFORMED BY THE CONTRACTOR TO DETERMINE THE BEST TAPPING LOCATION. THE CITY OF DOVER WILL NOT BE HELD RESPONSIBLE FOR FIELD CONDITIONS REQUIRING ADJUSTMENT OF THE TAPPING LOCATION OR FOR ANY WORK REQUIRED BY THE CONTRACTOR TO MAKE AN APPROPRIATE AND LAWFUL CONNECTION.
3. DISCHARGE OR CAUSE TO BE DISCHARGED ANY STORMWATER, SURFACE WATER, UNCONTAMINATED GROUNDWATER, ROOF RUNOFF, SUBSURFACE DRAINAGE, UNCONTAMINATED NONCONTACT COOLING WATER OR UNPOLLUTED INDUSTRIAL DISCHARGES SHALL ENSURE DURING CONSTRUCTION THAT NO SUCH DISCHARGES TO THE SANITARY SEWER SYSTEM ARE CREATED WITH THE SITE IMPROVEMENTS.
4. ALL EXISTING UTILITIES SHALL BE ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH CURRENT CITY OF DOVER REQUIREMENTS AND PRACTICES.

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

SCALE : 1" = 20'

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REVISIONS

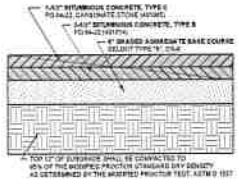
1 REVISED PER ADDENDUM #3 [illegible]

PROJECT
STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT
DELDOT PHASE II PARKING LOT EXPANSION
AT
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE
GRADING & STORMWATER MANAGEMENT PLAN

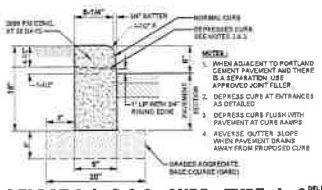
CONSTRUCTION DOCUMENTS
MARCH 15, 2019

DRAWN T.D.G. DESIGNED C.D.C.
DISCIPLINE CIVIL SHEET
PROJECT NO. 18092
C-401



PAVEMENT SECTION DETAIL

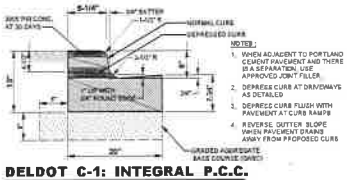
NO SCALE — BMG NO. SW-1A



DELDOT C-1: P.C.C. CURB - TYPE 1 - 6

DELDOT STANDARD NO. C-1 (2017)

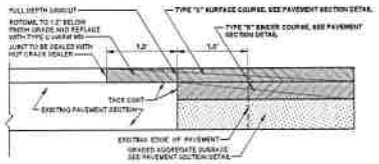
NO SCALE — SHOWN FOR REFERENCE ONLY - SEE DELDOT STANDARDS — BMG NO. SW-B1A



DELDOT C-1: INTEGRAL P.C.C. CURB & GUTTER TYPE 3-6

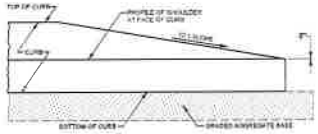
DELDOT STANDARD NO. C-1 (2017)

NO SCALE — SHOWN FOR REFERENCE ONLY - SEE DELDOT STANDARDS — BMG NO. SW-B1B



PAVEMENT TIE-IN SECTION

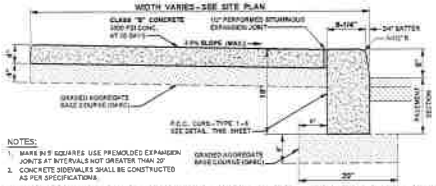
NO SCALE — BMG NO. SW-2DA



CURB TAPER DETAIL

DELDOT ACCESS MANUAL - PAGE 4-3

NO SCALE — BMG NO. SW-1C

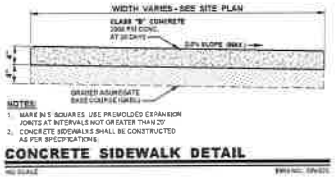


NOTES:

1. MAKE IN 5' SQUARES. USE PREMOLDED EXPANSION JOINTS AT INTERVALS NOT GREATER THAN 20'
2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER SPECIFICATIONS.

COMBINATION SIDEWALK AND P.C.C. CURB TYPE 1-6

NO SCALE — BMG NO. SW-1B

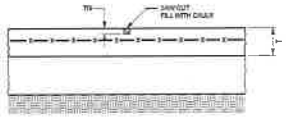


NOTES:

1. MAKE IN 5' SQUARES. USE PREMOLDED EXPANSION JOINTS AT INTERVALS NOT OR EATER THAN 20'
2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER SPECIFICATIONS.

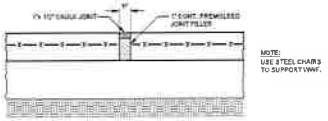
CONCRETE SIDEWALK DETAIL

NO SCALE — BMG NO. SW-1C



CONTROL JOINT DETAIL

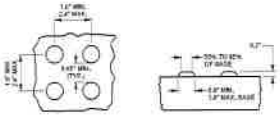
NO SCALE — BMG NO. SW-4E



NOTE:
USE STEEL CHAIRS TO SUPPORT WWF.

CONSTRUCTION / EXPANSION JOINT DETAIL

NO SCALE — BMG NO. SW-4F



DETECTABLE WARNINGS - TRUNCATED DOME

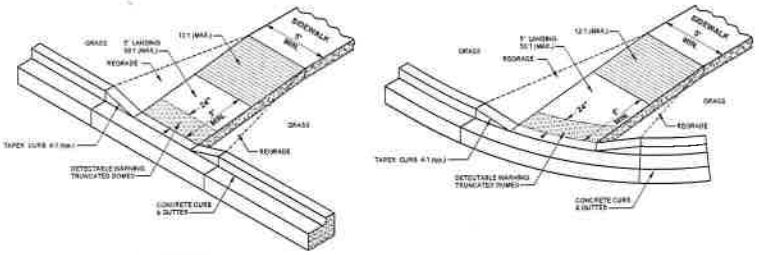
NOTES:

PER CURRENT ADAAG

1. PRIOR TO INSTALLATION VERIFY MATERIALS AND COLORS WITH DELDOT AND/OR LOCAL AGENCIES.
2. SURFACE TEXTURE OF RAMPS SHALL BE COARSE BROOMING OR NON-CKD TYPE SURFACE.
3. VERIFY WIDTH OF RAMP ON SITE PLAN PRIOR TO CONSTRUCTION.
4. THE AREA OF DETECTABLE WARNING TRUNCATED DOMES SHALL BE 2'-0" LONG AND THE FULL WIDTH OF THE RAMP OR DEPRESSED CURB.
5. DETECTABLE WARNINGS MUST HAVE A LIGHT-TO-DARK CONTRAST WITH THE SIDEWALK MATERIAL.
6. LIGHT REFLECTANCE VALUE CONTRAST MUST BE AT LEAST 70%.
7. THE COLOR OF DETECTABLE WARNINGS TO BE USED FOR SIDEWALK MATERIAL IS AS FOLLOWS:

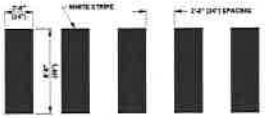
SIDEWALK / CURB RAMP MATERIAL	DETECTABLE WARNING SYSTEM COLOR
CONCRETE	BROWN CONCRETE DARK GRAY, BRIGHT RED, ORANGE (BRICK) RED OR BLACK

**IF USING A DIFFERENT SIDEWALK MATERIAL THAN SHOWN ABOVE OR IF THE SIDEWALK MATERIAL IS A DIFFERENT COLOR THAN NORMAL (I.E., CONCRETE OR NOT-MIX WITH A PIGMENT SO THAT IT IS NOT THE "NATURAL" OFFWHITE OR BLACK RESPECTIVELY), CONTACT DELDOT CONSISTENCY CONTROL QUALITY PROGRAM MANAGER AT (302) 760-2343 FOR COLOR CHOICES.



ACCESSIBLE RAMP DETAIL

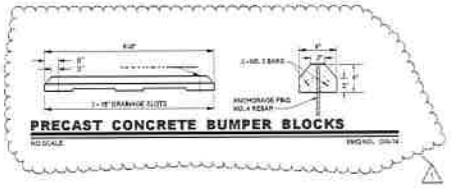
NO SCALE — BMG NO. SW-MA1



STRIPING OF CROSSWALK SHALL BE THERMO

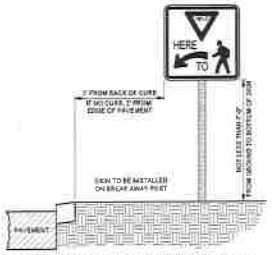
PEDESTRIAN CROSSWALK DETAIL

NO SCALE — BMG NO. TS-03



PRECAST CONCRETE BUMPER BLOCKS

NO SCALE — BMG NO. SW-14



ROADSIDE SIGN - BUSINESS OR RESIDENTIAL DISTRICT

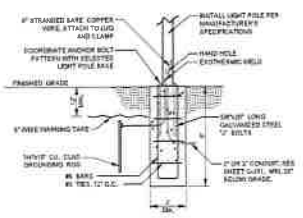
NOTE:

1. DESIGN, FABRICATION AND INSTALLATION OF ALL PERMANENT SIGNING SHALL BE IN ACCORDANCE WITH LATEST "DEMUTCD" (DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) MANUAL (LATEST EDITION).

BREAKAWAY POST DETAIL

"YIELD HERE TO PEDESTRIANS" SIGN AND BREAKAWAY POST DETAIL

NO SCALE — BMG NO. TS-D3



POLE BASE DETAIL

NO SCALE — BMG NO. SW-1A

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

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REVISIONS

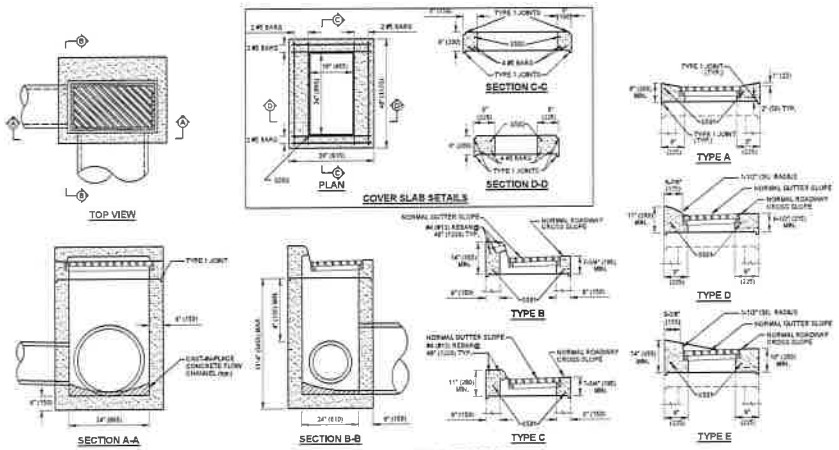
REVISED PER ADDENDUM #2 9/20/2019

PROJECT
STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT
DELDOT PHASE II PARKING LOT EXPANSION
AT
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE
SITE CONSTRUCTION DETAILS & SCHEDULES

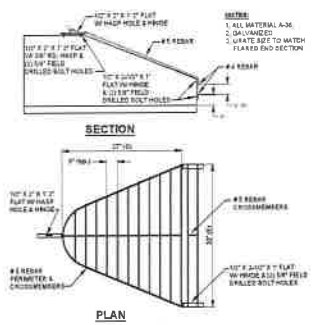
CONSTRUCTION DOCUMENTS
MARCH 13, 2018

DRAWN: T.D.G.
CHECKED/DESIGNED: C.D.C.
DISCIPLINE: CIVIL
SHEET NO.: C-901
PROJECT NO.: 18062



DELDOT D-5: 34" (865) X 24" (610) DRAINAGE INLET DETAILS (STANDARD NO. D-5 (2002) SHEET 6 OF 8)

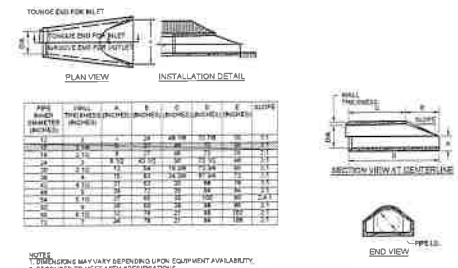
NO SCALE



FLARED END SECTION

CHILD SAFETY RACK (15" PIPE)

NO SCALE

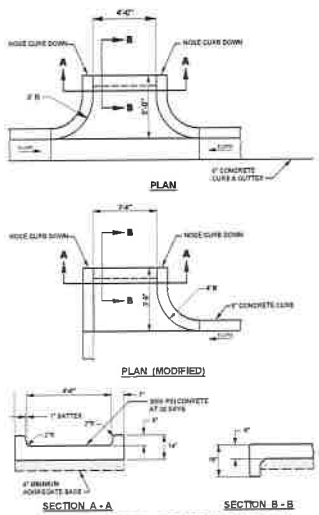


PIPE INNER DIAMETER (INCHES)	WALL THICKNESS (INCHES)	A (INCHES)	B (INCHES)	C (INCHES)	D (INCHES)	E (INCHES)	SLOPE
12	[illegible]	[illegible]	24	48 1/8	12 1/8	16	2:1
15	[illegible]	[illegible]	27	48	12	16	2:1
18	[illegible]	[illegible]	30	48	12	16	2:1
24	[illegible]	9 1/2	42 1/2	54	12 1/2	18	2:1
30	[illegible]	12	54	60 1/8	12 1/8	18	2:1
36	[illegible]	15	63	66 1/8	12 1/8	18	2:1
42	[illegible]	21	67	72	18	18	2:1
48	[illegible]	24	77	78	18	24	2:1
54	[illegible]	27	83	84	18	24	2:1
60	[illegible]	30	89	90	18	24	2:1
66	[illegible]	33	94	96	18	24	2:1
72	[illegible]	36	98	102	18	24	2:1

NOTES
1. DIMENSIONS MAY VARY DEPENDING UPON EQUIPMENT AVAILABILITY.
2. PRODUCED TO MEET ASTM SPECIFICATIONS.
3. CONTACT A CONCRETE PIPE DIVISION REPRESENTATIVE FOR DETAILS NOT LISTED ON THIS SHEET.

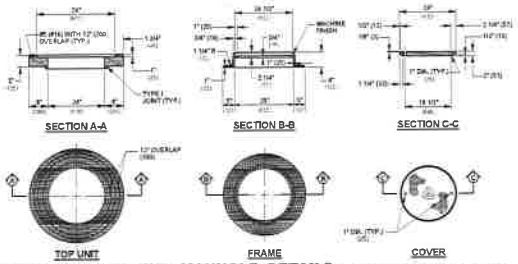
FLARED END SECTION (12" - 72" DIA. PIPE)

NO SCALE



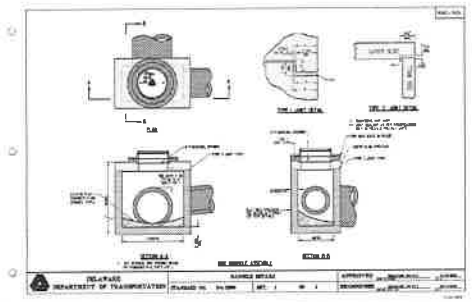
CONCRETE CURB OPENING DETAIL

NO SCALE



DELDOT D-6: ROUND MANHOLE DETAILS (STANDARD NO. D-6 (2001) SHEET 3 OF 4)

NO SCALE



STORM DRAIN MANHOLE SCHEDULE

MH NO.	RIM EL.	DIA.	DEPTH	INV. IN	INV. OUT
1	25.83'	48"	3.99'	25.83' (SD-3) 25.83' (SD-2)	25.83' (SD-1) 25.83' (SD-1)

STORM DRAIN PIPE SCHEDULE

PIPE NO.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SD-1	15"	CLASS V RCP	18'	0.27%	25.83	25.78
SD-2	15"	CLASS V RCP	37'	0.25%	25.84	25.80
SD-3	15"	CLASS V RCP	47'	0.26%	25.85	25.84
SD-4	15"	CLASS V RCP	102'	0.25%	25.85	25.78
SD-5	15"	CLASS V RCP	47'	0.25%	25.92	25.88

CATCH BASIN SCHEDULE

CB NO.	INLET BOX	COVER SLAB	TOP UNIT	FRAME/GRATE	GRATE EL.	INV. IN	INV. OUT
1	34" x 24"	—	TYPE C	TYPE I	26.24'	23.24' (SD-4)	23.24' (SD-3)
2	34" x 24"	—	TYPE C	TYPE I	26.24'		23.24' (SD-5)
3	34" x 24"	—	TYPE C	TYPE I	26.24'		23.22' (SD-5)

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REVISIONS

1 REVISED PER ADDENDUM #3 04/09/2019

PROJECT
STATE OF DELAWARE
DELAWARE DEPARTMENT OF TRANSPORTATION
OMB/DFM PROJECT
DELDOT PHASE II PARKING LOT EXPANSION
AT
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901

SHEET TITLE
SITE CONSTRUCTION DETAILS

CONSTRUCTION DOCUMENTS
MARCH 15, 2019

DRAWN: T.D.G. | CHECKED/DESIGNED: C.D.C.

DISCIPLINE: CIVIL | SHEET NO.: C-902

PROJECT NO.: 18062