



© Project# 20232855.001X 0201 - ELC\CA00\Drawings\Sheets\C200_Cover.dwg, 5/23/2023 10:22 AM

- SEQUENCE OF CONSTRUCTION
1. NOTIFY THE DNREC IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
 2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES, OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED. THE LANDOWNER/DEVELOPER AND CONTRACTOR ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE ENGINEER IS RECOMMENDED TO ATTEND.
 3. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
 4. CLEAR AND GRUB AS REQUIRED TO INSTALL STABILIZED CONSTRUCTION ENTRANCE. INSTALL STABILIZED CONSTRUCTION ENTRANCE. CLEAR AND GRUB TO INSTALL SILT FENCE. INSTALL SILT FENCE.
 5. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
 6. CLEAR AND GRUB AREAS WITHIN THE LIMIT OF DISTURBANCE.
 7. REMOVE CONCRETE SIDEWALKS AS SHOWN ON THE PLAN.
 8. INSTALL SITE POLLUTION PREVENTION DEVICES PER DNREC STANDARD DETAILS & SPECIFICATIONS, INCLUDING CONCRETE WASHOUT.
 9. INSTALL FENCING AROUND EXISTING TRANSFORMERS.
 10. CONSTRUCT NEW ECIC BUILDING. INSTALL UTILITY CONNECTIONS.
 11. CONSTRUCT NEW SIDEWALKS AND WALKING PATHS.
 12. INSTALL PLAYGROUND EQUIPMENT AND LANDSCAPING.
 13. CLEAR AREAS AS NEEDED WITHIN LOC.
 14. MILL AND OVERLAY EXISTING PARKING LOT AND PERFORM ROUGH GRADING PROJECT WIDE.
 15. PERFORM FINAL SITE GRADING. SEED AND STABILIZE ALL DISTURBED AREAS.
 16. EROSION & SEDIMENT CONTROL DEVICES SHALL BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE OWNER.

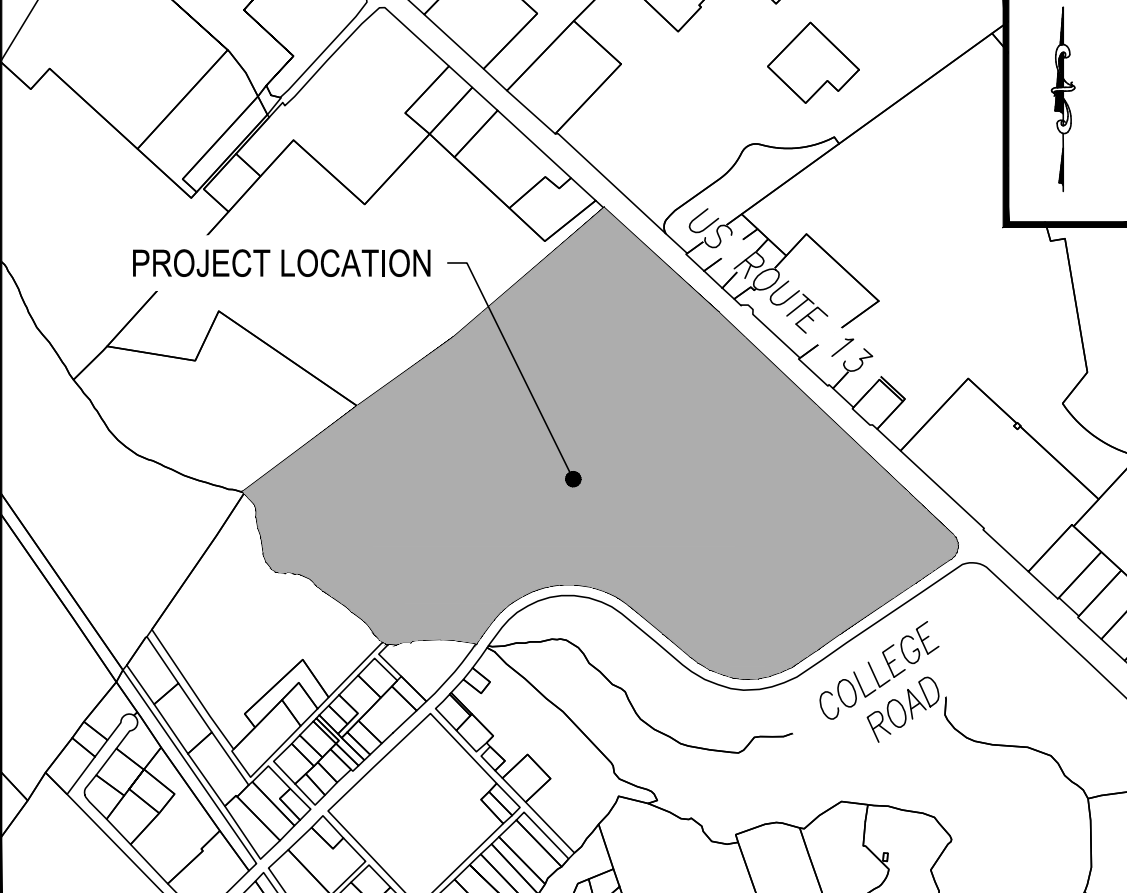
INDEX OF SHEETS	
C200	COVER SHEET
C201	LEGEND
C202	GENERAL PROJECT NOTES
C203	EXISTING CONDITIONS & DEMOLITION PLAN
C204	SITE LAYOUT PLAN
C205	WALKING PATH LAYOUT PLAN
C206	CONSTRUCTION DETAILS
C207	GRADES & GEOMETRICS
C208	SIGNING & STRIPING
C209	UTILITY PLAN
C210	LIGHTING PLAN
C211	FIRE MARSHAL PLAN
C212	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
C213	EROSION AND SEDIMENT CONTROL DETAILS
C214	EROSION AND SEDIMENT CONTROL DETAILS
C215	EROSION AND SEDIMENT CONTROL DETAILS
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LS101	LANDSCAPE AND PLAYGROUND PLAN
LS102	LANDSCAPE DETAILS
LS103	PLAYGROUND EQUIPMENT DETAILS
LS104	PLAYGROUND EQUIPMENT DETAILS



NEW ECIC BUILDING CONSTRUCTION PLAN

FOR T.P. NO. ED-05-057.00-01-21.00

866 N. DUPONT HIGHWAY, DOVER, DE 19901 KENT COUNTY, STATE OF DELAWARE



LOCATION MAP SCALE: 1" = 1200'

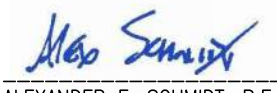
DATA COLUMN	
1. COUNTY TAX MAP:	ED-05-057.00-01-21.00
2. ADDRESS OF SITE:	866 N. DUPONT HIGHWAY DOVER, DE 19901
3. ZONING:	EXISTING: IO (INSTITUTIONAL/OFFICE) PROPOSED: IO (INSTITUTIONAL/OFFICE)
4. PARCEL AREA:	213.60± ACRES
5. PROJECT AREA:	1.452± ACRES
6. SOURCE OF TITLE:	D.R. H-11-113
7. EXISTING USE:	COLLEGE/UNIVERSITY
8. PROPOSED USE:	COLLEGE/UNIVERSITY
9. DATUM:	VERTICAL - NAVD83 HORIZONTAL - NAD27
10. FLOOD PLAIN MAP:	PER FIRM MAP NUMBER 10001C0166H, DATED MAY 5, 2003; THIS SITE LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN.
11. PURPOSE OF PLAN:	THE PURPOSE OF THIS PLAN IS FOR CONSTRUCTION OF A NEW 14,512± S.F. ECIC BUILDING AND ASSOCIATED IMPROVEMENTS.
12. DEBRIS DISPOSAL:	NO DEBRIS SHALL BE BURIED ON THE SITE. ANY BURIED DEBRIS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED FACILITY.
13. TOPOGRAPHY:	TOPOGRAPHIC SURVEY DATA SHOWN HEREON WAS PERFORMED BY CENTURY ENGINEERING, LLC, OCTOBER 2022.
14. BOUNDARY SURVEY:	NO BOUNDARY SURVEY WAS PERFORMED NOR REQUESTED.
15. TOTAL LAND DISTURBANCE:	THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 0.78± ACRES.
16. LIMITS OF CONSTRUCTION:	THE TOTAL LIMITS OF CONSTRUCTION FOR THE SITE IS 0.78± ACRES.
17. WETLANDS:	NO SITE INVESTIGATION WAS PERFORMED NOR REQUESTED.
18. WATER SUPPLY:	CITY OF DOVER
19. SANITARY SEWER:	CITY OF DOVER
20. OWNER/EQUITABLE OWNER:	KHALID ZERRAD DELAWARE STATE UNIVERSITY 1200 N. DUPONT HIGHWAY DOVER, DE 19901 (302) 734-9188 ALEXANDER E. SCHMIDT, P.E.
21. ENGINEER:	CENTURY ENGINEERING, LLC. 550 BAY ROAD DOVER, DE 19901 (302) 734-9188 ALEXANDER E. SCHMIDT, P.E.

IMPERVIOUS BREAKDOWN	
EXISTING	PROPOSED
BUILDING: 17,147.71 S.F. (0.393 ACRES)	BUILDING: 11,336.16 S.F. (0.260 ACRES)
ASPHALT/CONC.: 23,965.80 S.F. (0.550 ACRES)	ASPHALT/CONC.: 19,965.35 S.F. (0.458 ACRES)
TOTAL: 41,113.51 S.F. (0.943 ACRES)	TOTAL: 31,301.51 S.F. (0.718 ACRES)
PROJECT AREA % IMPERVIOUS: 0.943/1.452 = 64.9%	PROJECT AREA % IMPERVIOUS: 0.718/1.452 = 49.4%

SITE AREA BREAKDOWN	
EXISTING	PROPOSED
BUILDING: 17,147.71 S.F. (0.393 ACRES)	BUILDING: 11,336.16 S.F. (0.260 ACRES)
ASPHALT/CONC.: 23,965.80 S.F. (0.550 ACRES)	ASPHALT/CONC.: 19,965.35 S.F. (0.458 ACRES)
OPEN SPACE: 22,172.04 S.F. (0.509 ACRES)	OPEN SPACE: 31,873.04 S.F. (0.734 ACRES)
TOTAL: 63,285.55 S.F. (1.452 ACRES)	TOTAL: 63,285.55 S.F. (1.452 ACRES)

CERTIFICATION OF DEVELOPER	
I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (I.E., BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS.	
KHALID ZERRAD DELAWARE STATE UNIVERSITY 1200 N. DUPONT HIGHWAY DOVER, DE 19901 (302) 857-7085	DATE

CERTIFICATION OF OWNERSHIP	
I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO ME BY ACT AND DESIRE THE PLAN TO BE DEVELOPED AS SHOWN IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.	
KHALID ZERRAD DELAWARE STATE UNIVERSITY 1200 N. DUPONT HIGHWAY DOVER, DE 19901 (302) 857-7085	DATE

PROFESSIONAL CERTIFICATION	
I, ALEXANDER E. SCHMIDT, HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.	
 ALEXANDER E. SCHMIDT, P.E., DE NO. 16139 CENTURY ENGINEERING, LLC. 550 BAY ROAD DOVER, DELAWARE 19901 (302) 734-9188	05/23/2023 DATE



REVISIONS	

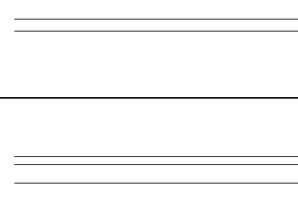
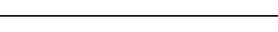
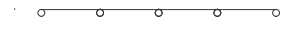
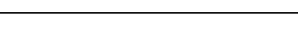
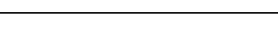
ADDENDUM	
△ DESCRIPTION	DATE

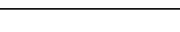
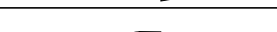
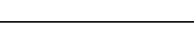
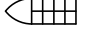
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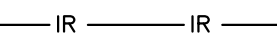
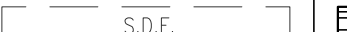
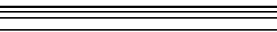
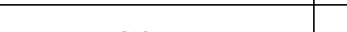
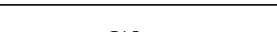
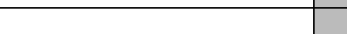
PROJECT	NEW ECIC BUILDING CONSTRUCTION PLAN
FOR	T.P. NO. ED-05-057.00-01-21.00 DELAWARE STATE UNIVERSITY 866 N. DUPONT HIGHWAY, DOVER, DE 19901 CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

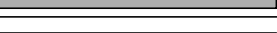
SHEET TITLE	COVER SHEET
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CITY OF DOVER SUBMISSION MAY 2023	
DRAWN	CHK'D/DESIGNER
CRK	AES
SCALE	SHEET NO.
1" = 400'	C200
PROJECT NO.	20232855.001

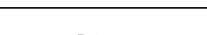
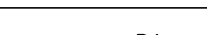
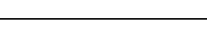
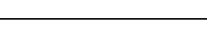
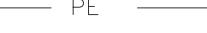
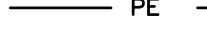
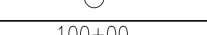
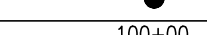
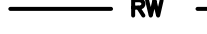
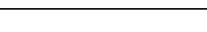
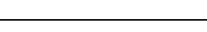
MANMADE ROADSIDE FEATURES				
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID	
BOLLARD - STEEL POLE				
BOLLARD - WOOD POST				
CURB, TYPE 1 AND TYPE 3				
CURB, TYPE 2				
CURB & GUTTER, TYPE 1				
CURB & GUTTER, TYPE 2				
CURB & GUTTER, TYPE 3				
FENCE - CHAINLINK OR STRANDED				
FENCE - STOCKADE OR SPLIT RAIL				
FLAG POLE				
GUARDRAIL - STEEL BEAM, TYPE 1				
LAMP AND POST				
MAILBOX				
PAVEMENT				
PILLAR OR MISCELLANEOUS POST				
TRAFFIC SIGN AND POST				

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BIOFILTRATION SWALE			
DITCH OR STREAM CENTERLINE			
DIRECTIONAL STREAM FLOW ARROW			
DRAINAGE INLET			
DRAINAGE JUNCTION BOX			
DRAINAGE MANHOLE			
DRAINAGE PIPE AND FLOW ARROW			
FLARED END SECTION			
RIPRAP - AREA FEATURE			
SAFETY END SECTION			
UNDERDRAIN			
UNDERDRAIN OUTLET			

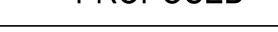
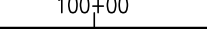
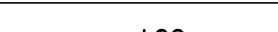
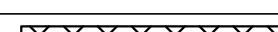
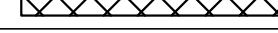
UTILITY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
CABLE TV DISTRIBUTION BOX		
COMMUNICATIONS - UNDERGROUND		
ELECTRIC - UNDERGROUND		
ELECTRIC MANHOLE		
ELECTRIC METER		
ELECTRIC TRANSFORMER		
GAS - UNDERGROUND		
GAS MANHOLE		
GAS METER		
GAS VALVE		
GAS PUMP - SERVICE STATION		
IRRIGATION - UNDERGROUND		
ITMS - UNDERGROUND		
LIGHTING - UNDERGROUND		
LUMINAIRE - POLE MOUNTED		
MANHOLE - UNDETERMINED OWNER		
RAILROAD TRACKS		
SANITARY - UNDERGROUND		
SANITARY SEWER MANHOLE		
SANITARY SEWER VALVE		
SANITARY SEWER CLEANOUT OR VENT		
SEPTIC DRAIN FIELD		
SIGNALIZATION - UNDERGROUND		
SOIL BORING LOCATION		
TELEPHONE BOOTH		
TELEPHONE MANHOLE		
TELEPHONE TEST POINT		
TRAFFIC - CONDUIT JUNCTION WELL		
TRAFFIC - LIGHT POLE AND BASE		
TRAFFIC - PEDESTRIAN POLE & BASE		
TRAFFIC - SIGNAL CABINET & BASE		
TRAFFIC - SIGNAL POLE AND BASE		
UNKNOWN UTILITY - UNDERGROUND		
UTILITY BOX		
UTILITY POLE GUY WIRE ANCHOR		
UTILITY POLE		
UTILITY TEST HOLE LOCATION		
WALL PACK - LIGHTING		
WATER - UNDERGROUND		
WATER - FIRE HYDRANT		
WATER METER		
WATER VALVE		
WATER - FIRE DEPARTMENT CONNECTION		
WELL HEAD		

PAVEMENT SECTION(S)	
MILL AND OVERLAY - SEE TYPICAL SECTIONS FOR MATERIAL AND DEPTHS	
FULL DEPTH PAVEMENT	
RUBBERIZED SURFACE	
GRAVEL	
CONCRETE	

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE STUMP		
SHRUBBERY		
WETLAND BOUNDARY - DELINEATED		
WOODS LINE BOUNDARY		

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
DENIAL OF ACCESS		
EASEMENT - OTHERS		
PERMANENT EASEMENT		
PROPERTY LINE		
PROPERTY MARKER - CONCRETE		
PROPERTY MARKER - IRON PIPE		
RIGHT-OF-WAY BASELINE		
RIGHT-OF-WAY LINE		
RIGHT-OF-WAY & DENIAL OF ACCESS		
RIGHT-TO-ENTER		
TEMPORARY CONSTRUCTION EASEMENT		
CLEAR ZONE		
HORIZONTAL CLEARANCE		

SURVEY CONTROL & MONUMENTATION	
FEATURE DESCRIPTION	EXISTING
SURVEY BENCHMARK LOCATION	
SURVEY TIE POINT LOCATION	
SURVEY TRAVERSE POINT	

MISCELLANEOUS FEATURES	
FEATURE DESCRIPTION	PROPOSED
BUTT JOINT	
CLEAR ZONE	
CONSTRUCTION BASELINE	
LIMIT OF CONSTRUCTION	
DEMOLITION	
P.C.C. SIDEWALK	
6" P.C.C. SIDEWALK	
PAVEMENT PATCH	

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	
ABANDON BY OTHERS	
ADJUST BY CONTRACTOR	
ADJUST BY OTHERS	
BEST MANAGEMENT PRACTICE	
BUS STOP PAD / TYPE	
BUS STOP WITH SHELTER PAD / TYPE	
CONCRETE SAFETY BARRIER	
CONVERT TO DRAINAGE BOX	
CONVERT TO JUNCTION MANHOLE	
DO NOT DISTURB	
ENERGY DISSIPATOR	
FILL WITH FLOWABLE FILL	
LANDSCAPE PLANTINGS	
PEDESTRIAN CONNECTION / TYPE	
RELOCATE BY CONTRACTOR	
RELOCATE BY OTHERS	
RELOCATE BY PROPERTY OWNER	
REMOVE BY CONTRACTOR	
REMOVE BY OTHERS	
REMOVE BY TRAFFIC CONTRACTOR	
RIGHT-OF-WAY MONUMENT	

EROSION & SEDIMENT CONTROL FEATURES	
FEATURE DESCRIPTION	PROPOSED
LIMIT OF DISTURBANCE	
PORTABLE SEDIMENT TANK	
PUMPING PIT	
SILT FENCE	
COMPOST FILTER LOG	
SENSITIVE AREA PROTECTION	



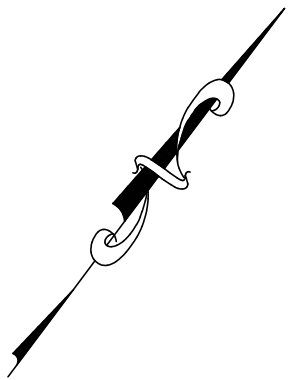
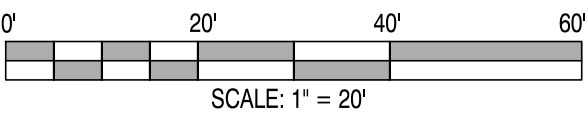
SITE DEMOLITION NOTES:

- 1 SANITARY SEWER LINE TAKEN FROM HISTORIC DOCUMENTS PREPARED BY TETRA TECH RICHARDSON, DATED SEPTEMBER 30, 1992.
- 2 WATERLINE SHOWN TAKEN FROM HISTORIC DOCUMENTS PREPARED BY TETRA TECH RICHARDSON, DATED SEPTEMBER 30, 1992.
- 3 UNKNOWN UTILITY; CONTRACTOR TO VERIFY SIZE, MATERIAL, TYPE OF UTILITY.
- 4 EXISTING CONCRETE PAD AND CABINET TO REMAIN. CONTRACTOR TO ENSURE PAD AND CABINET ARE NOT DAMAGED DURING CONSTRUCTION.
- 5 EXISTING CONCRETE PAD AND ELECTRIC TRANSFORMER TO REMAIN. CONTRACTOR TO ENSURE PAD AND TRANSFORMER ARE NOT DAMAGED DURING CONSTRUCTION.
- 6 DO NOT DISTURB EXISTING SIGN; IF DISTURBANCE IS ANTICIPATED, CONTRACTOR TO REMOVE AND STORE ON-SITE AT A LOCATION DETERMINED BY THE OWNER.
- 7 EXISTING BENCHES ARE NOT TO BE DISTURBED. IF DISTURBANCE OCCURS OR IS ANTICIPATED, CONTRACTOR TO REMOVE BENCHES AND STORE ON-SITE AT A LOCATION DETERMINED BY THE OWNER.
- 8 EXISTING MAILBOX SHALL NOT TO BE DISTURBED. IF DISTURBANCE OCCURS OR IS ANTICIPATED, CONTRACTOR TO REMOVE MAILBOX AND STORE ON-SITE AT A LOCATION DETERMINED BY THE OWNER.

- | | |
|----|---|
| 9 | CONTRACTOR TO REMOVE EXISTING BENCH. BENCH IS STORED ON-SITE AT A LOCATION DETERMINED BY THE OWNER. |
| 10 | CONTRACTOR TO REMOVE EXISTING CONCRETE. |
| 11 | CONTRACTOR TO REMOVE EXISTING CONCRETE SIDEWALK. |

UTILITY NOTES:

- | | |
|---|----------------------|
| 1 | ELECTRIC TRANSFORMER |
| 2 | ELECTRIC CABINET |
| 3 | AIR CONDITIONER UNIT |
| 4 | UNKNOWN UTILITY |
| 5 | UTILITY CABINET |
| 6 | TRANSFORMER T16 |
| 7 | TRANSFORMER T2 |
| 8 | TRANSFORMER PMS1 |
| 9 | HEAVY DUTY SWITCH |



Century
ENGINEERING
A Kleinfelder Company

REVISIONS

ADDENDUM

△ DESCRIPTION	DATE
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SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY

866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

PROJECT

SHEET TITLE

EXISTING CONDITIONS & DEMOLITION PLAN

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN	CHK'D/DESIGNER
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CRK

AES

SCALE

SHEET NO.

PROJECT NO.

C203

20232855.001



FENCE POINT LAYOUT			
POINT NO.	STATION	NORTHING	EASTING
5000	FENCE	432096.5491	620415.9872
5001	FENCE	432137.3872	620471.9140
5002	FENCE	432172.0064	620519.3241
5003	FENCE	432171.6238	620535.9623
5004	FENCE	432094.9767	620591.9305
5005	FENCE	432084.5030	620586.8448
5006	FENCE	432017.0300	620569.9242
5007	FENCE	431979.5145	620518.5477
5008	FENCE	432005.0491	620499.9043
5009	FENCE	432005.0491	620491.0459
5010	FENCE	431995.0044	620476.9015
5011	FENCE	432010.8684	620465.3919
5012	FENCE	432009.5481	620458.7831
5013	FENCE	432000.0415	620445.7640
5014	FENCE	432008.2497	620439.7838
5015	FENCE	432054.7897	620521.6241
5016	FENCE	432073.3319	620546.8565
5017	FENCE	432055.8013	620559.7389
5018	FENCE	432042.7271	620541.9474
5019	FENCE	432048.3678	620537.8022
5020	FENCE	432042.8999	620530.3614
5021	FENCE	432118.8202	620446.4869
5022	FENCE	432098.9675	620460.9834
5023	FENCE	432096.6157	620457.7479
5024	FENCE	432092.2342	620460.9326
5025	FENCE	432009.4267	620505.9108
5026	FENCE	432014.2531	620505.0173
5027	FENCE	432018.8695	620517.5917
5028	FENCE	432025.8338	620521.4673
5029	FENCE	432035.1439	620523.3093
5030	FENCE	432037.4012	620522.0213
5031	FENCE	432037.1475	620519.7547
5032	FENCE	432042.1217	620505.7186
5033	FENCE	432047.2058	620501.8811
5034	FENCE	432044.2766	620497.8289
5035	FENCE	432048.7141	620494.6035

BUILDING POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
4000	BUILDING CORNER	432041.7721	620391.5079
4001	BUILDING CORNER	432054.0701	620408.4273
4002	BUILDING CORNER	432057.4244	620405.9377
4003	BUILDING CORNER	432066.7582	620418.7789
4004	BUILDING CORNER	432067.2053	620418.4539
4005	BUILDING CORNER	432076.3308	620431.0086
4006	BUILDING CORNER	432072.4375	620433.8385
4007	BUILDING CORNER	432101.1003	620473.1305
4008	BUILDING CORNER	432101.4373	620472.8855

BUILDING POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
4009	BUILDING CORNER	432113.6864	620489.7374
4010	BUILDING CORNER	432110.6699	620491.9300
4011	BUILDING CORNER	432116.6168	620500.1117
4012	BUILDING CORNER	432094.1362	620516.4519
4013	BUILDING CORNER	432087.9444	620507.9332
4014	BUILDING CORNER	432068.6151	620521.9828
4015	BUILDING CORNER	432027.5625	620465.5035
4016	BUILDING CORNER	432027.1580	620465.7974
4017	BUILDING CORNER	431996.4069	620423.3489

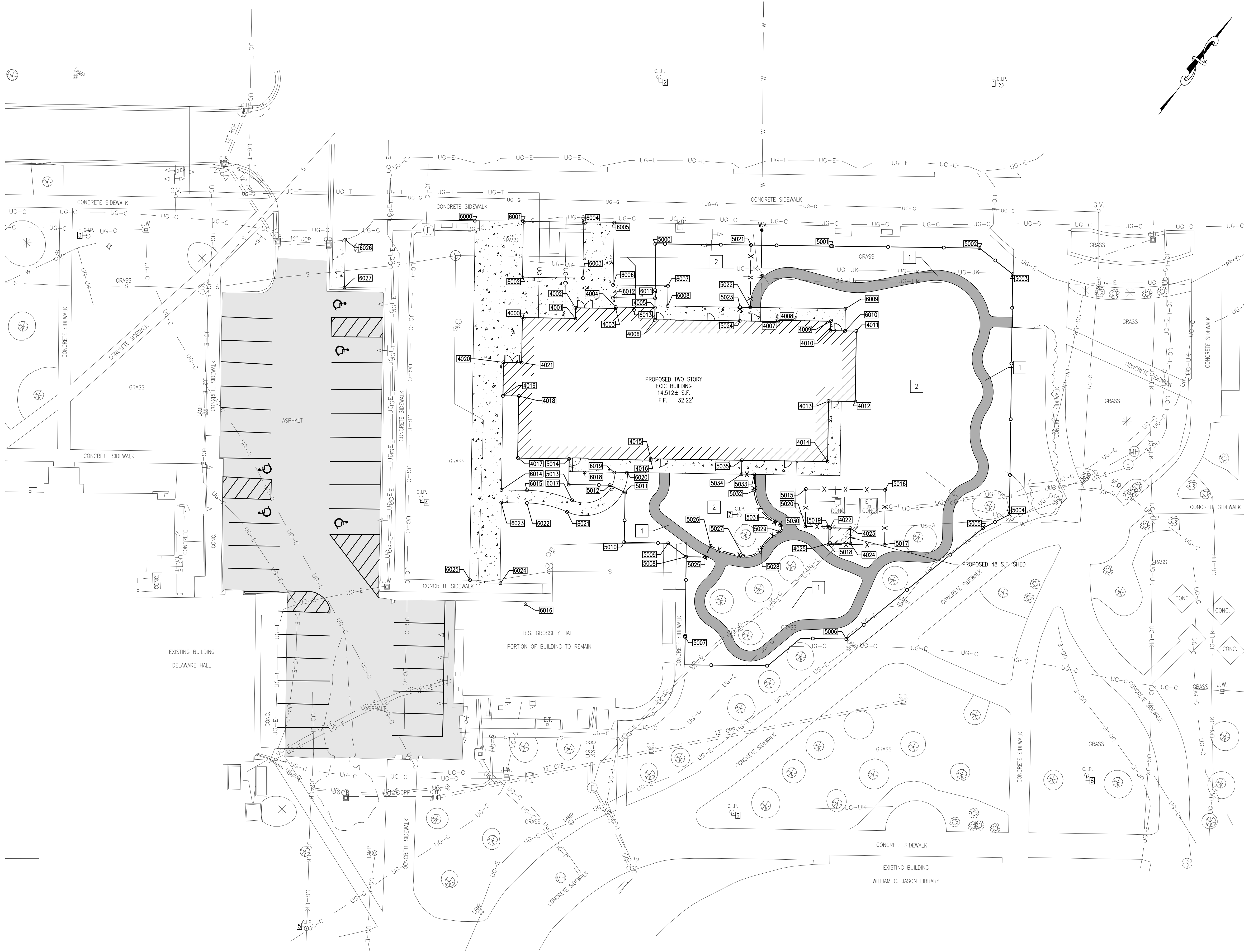
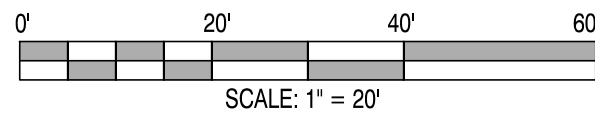
BUILDING POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
4018	BUILDING CORNER	432016.1574	620408.9930
4019	BUILDING CORNER	432012.4245	620403.9282
4020	BUILDING CORNER	432023.1423	620396.1378
4021	BUILDING CORNER	432027.3903	620401.9686
4022	BUILDING CORNER	432048.2610	620538.5012
4023	BUILDING CORNER	432052.9983	620544.9478
4024	BUILDING CORNER	432048.1634	620548.5008
4025	BUILDING CORNER	432043.4261	620542.0542

CONCRETE POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
6000	CONC	432061.0792	620353.5608
6001	CONC	432072.3462	620368.8599
6002	CONC	432054.5533	620381.9860
6003	CONC	432068.5602	620401.2563
6004	CONC	432086.4249	620388.2711
6005	CONC	432093.5015	620397.9624
6006	CONC	432073.5859	620412.4383
6007	CONC	432086.3065	620429.9390
6008	CONC	432079.8262	620434.6493
6009	CONC	432121.0617	620491.3803

CONCRETE POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
6010	CONC	432114.0008	620496.5126
6011	CONC	432079.3025	620428.8257
6012	CONC	432069.5415	620415.3781
6013	CONC	432070.6055	620424.8941
6014	CONC	431982.3920	620425.7834
6015	CONC	431988.3318	620433.9251
6016	CONC RADIUS	431951.9856	620460.4413
6017	CONC	431995.8720	620450.5350
6018	CONC	432007.5775	620447.8927
6019	CONC	432014.6243	620457.2561

CONCRETE POINT LAYOUT			
POINT NO.	DESCRIPTION	NORTHING	EASTING
6020	CONC	432017.5720	620461.2929
6021	CONC	431990.9948	620451.6359
6022	CONC	431984.2925	620436.8719
6023	CONC	431978.3476	620428.7231
6024	CONC	431952.7068	620447.5537
6025	CONC	431946.4601	620437.2565
6026	CONC	432024.4151	620317.1663
6026	CONC	432024.4151	620317.1663
6027	CONC	432009.1928	620328.2159
6027	CONC	432009.1928	620328.2159

GENERAL NOTES:	
1	SEE SHEET C205 FOR LAYOUT OF PLAYGROUND WALKING PATH.
2	SEE LANDSCAPE/PLAYGROUND PLANS FOR SPECIFICATIONS WITHIN PLAYGROUND AREA.





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CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1000	POB STA. 40+00.0	0.00'	432016.3528	620459.4359
1001	RADIUS: 14.50'	0.00'	432007.5775	620447.8927
1002	PC STA. 40+28.97	0.00'	431993.4360	620451.0971
1003	RADIUS: 42.50'	0.00'	431951.9868	620460.4891
1004	PT STA. 40+46.21	0.00'	431986.3648	620435.5011
1005	POE STA. 40+56.41	0.00'	431980.3698	620427.2533

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
2000	POB STA. 10+00.0	0.00'	432026.3262	620473.1571
2001	PC STA. 10+04.04	0.00'	432023.1147	620475.6016
2002	RADIUS: 8.00'	0.00'	432018.2692	620469.2360
2003	PC STA. 10+10.59	0.00'	432016.9271	620477.1226
2004	RADIUS: 5.00'	0.00'	432016.0882	620482.0517
2005	PT STA. 10+19.29	0.00'	432011.0882	620482.0517
2006	PC STA. 10+35.02	0.00'	432011.0882	620497.7829
2007	RADIUS: 42.29'	0.00'	432053.3817	620497.7829
2008	PC STA. 10+58.05	0.00'	432017.2055	620519.6922

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
2009	RADIUS: 9.00'	0.00'	432024.9096	620515.0264
2010	PC STA. 10+68.55	0.00'	432026.1598	620523.9460
2011	RADIUS: 12.00'	0.00'	432027.8259	620535.8326
2012	PC STA. 10+92.05	0.00'	432039.4615	620538.7785
2013	RADIUS: 23.00'	0.00'	432061.7569	620544.4333
2014	PC STA. 11+05.96	0.00'	432040.2028	620552.4635
2015	RADIUS: 24.00'	0.00'	432017.7131	620560.8428
2016	PT STA. 11+09.04	0.00'	432041.0883	620555.4023
2017	POE STA. 11+16.43	0.00'	432042.7646	620562.6042

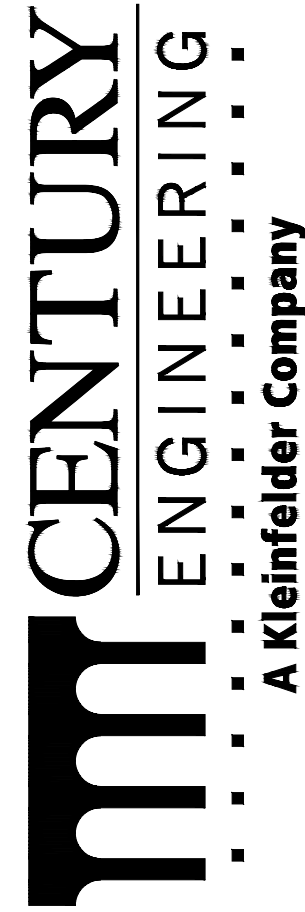
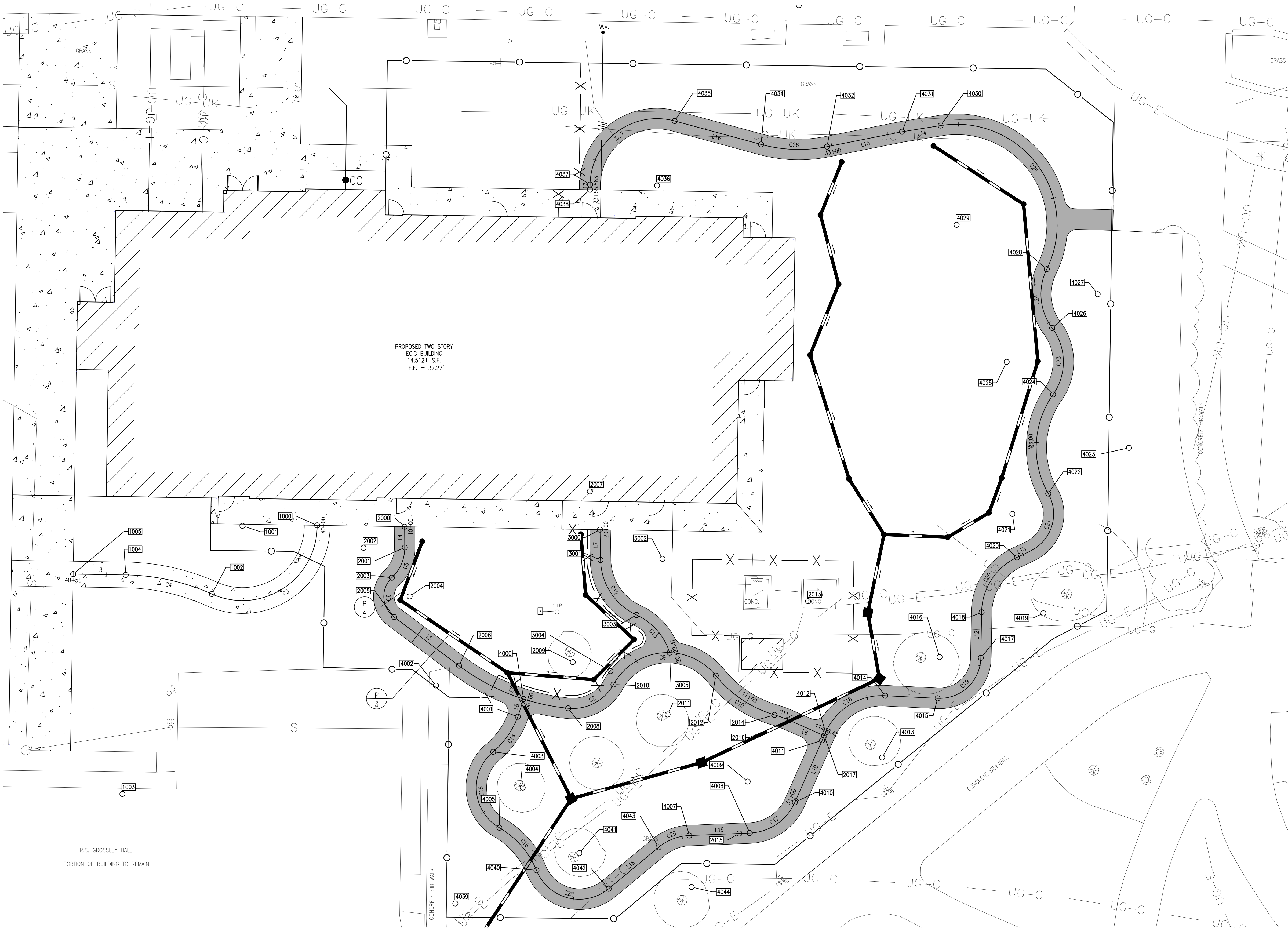
CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
3000	POB STA. 20+00.0	0.00'	432048.6159	620503.8227
3001	PC STA. 20+05.87	0.00'	432043.9880	620507.4337
3002	RADIUS: 12.00'	0.00'	432051.3742	620516.9001
3003	PC STA. 20+19.31	0.00'	432039.6338	620519.4165
3004	RADIUS: 12.00'	0.00'	432027.9002	620521.9373
3005	POE STA. 20+29.32	0.00'	432037.8495	620528.9360

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
4000	POB STA. 30+00.0	0.00'	432013.4348	620511.6747
4001	PC STA. 30+03.62	0.00'	432010.0224	620512.8613
4002	RADIUS: 17.00'	0.00'	432005.3403	620496.5188
4003	PC STA. 30+11.51	0.00'	432001.7056	620513.1257
4004	RADIUS: 10.50'	0.00'	431999.5888	620521.8732
4005	PC STA. 30+44.13	0.00'	431990.6511	620522.9302
4007	PT STA. 30+69.99	0.00'	432011.5707	620553.3103
4008	PC STA. 30+83.09	0.00'	432018.9913	620562.3941
4009	RADIUS: 8.00'	0.00'	432026.7357	620556.0676
4010	PT STA. 30+94.61	0.00'	432028.0026	620565.8073
4011	STA. 31+07.53	0.00'	432041.7906	620562.8309
4012	PC STA. 31+09.20	0.00'	432043.4108	620562.4538
4013	RADIUS: 12.00'	0.00'	432046.1311	620574.1414
4014	PT STA. 31+23.65	0.00'	432056.0700	620567.4169

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
4015	PC STA. 31+33.83	0.00'	432061.7714	620575.8437
4016	RADIUS: 8.00'	0.00'	432068.3973	620571.3607
4017	PT STA. 31+46.65	0.00'	432073.0938	620577.8371
4018	PC STA. 31+55.48	0.00'	432080.2409	620572.6543
4019	RADIUS: 12.00'	0.00'	432087.2855	620582.3689
4020	PC STA. 31+68.82	0.00'	432092.8683	620577.7466
4021	PC STA. 32+05.10	0.00'	432099.0903	620565.9791
4022	PC STA. 31+84.79	0.00'	432106.4229	620569.1778
4023	RADIUS: 18.00'	0.00'	432122.9215	620576.3749
4024	PC STA. 32+05.10	0.00'	432122.3634	620558.3836
4025	RADIUS: 11.00'	0.00'	432122.0224	620547.3889
4026	PC STA. 32+18.88	0.00'	432132.5723	620550.5034
4027	RADIUS: 11.00'	0.00'	432143.1221	620553.6180
4028	PC STA. 32+30.95	0.00'	432141.0809	620542.8090

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
4029	RADIUS: 19.50'	0.00'	432137.4623	620523.6477
4030	PT STA. 32+73.61	0.00'	432150.9967	620509.6096
4031	STA. 32+81.18	0.00'	432145.5452	620504.3537
4032	PC STA. 32+96.03	0.00'	432134.4837	620494.4437
4033	RADIUS: 28.00'	0.00'	432153.1674	620473.5890
4034	PT STA. 33+08.96	0.00'	432127.1524	620483.9438
4035	PC STA. 33+26.33	0.00'	432120.7281	620467.8036
4036	RADIUS: 13.00'	0.00'	432108.6497	620472.6111
4037	PT STA. 33+49.99	0.00'	432101.0063	620462.0955
4038	POE STA. 33+50.99	0.00'	432100.2012	620462.6807
4039	RADIUS: 17.00'	0.00'	431973.7687	620524.9266
4040	PC STA. 30+40.50	0.00'	431988.3684	620533.6359
4041	RADIUS: 9.00'	0.00'	431996.0184	620538.2881
4042	PT STA. 30+57.33	0.00'	431993.9102	620546.9898

CONSTRUCTION ALIGNMENT LAYOUT				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
4043	PC STA. 30+69.91	0.00'	432006.1473	620549.9099
4044	RADIUS: 10.00'	0.00'	432003.8263	620559.6368



REVISIONS

ADDENDUM

DESCRIPTION DATE

SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR

T.P. NO. ED-05-057.00-01-21.00

DELAWARE STATE UNIVERSITY

886 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

WALKING PATH LAYOUT PLAN

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN CHK'D/DESIGNER

CRK

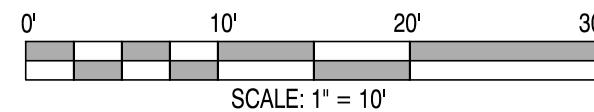
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SCALE SHEET NO.

PROJECT NO.

20232855.001

C205





1 PAVEMENT TIE-IN DETAIL
C206 SCALE: N.T.S.



1. MARK IN 5' SQUARES, USE CORK EXPANSION JOINTS AT INTERVALS NOT GREATER THAN 15'.
2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER DELDOT SPECIFICATIONS.
3. CROSS SLOPE OF SIDEWALK SHALL BE 1% MIN., 1.5% MAX. LONGITUDINAL SLOPE AS SHOWN ON PLANS.

2 4" SIDEWALK DETAIL
C206 SCALE: N.T.S.



CENTURY
ENGINEERING
A Kleinfelder Company

VISIONS

ADDENDUM

DESCRIPTION

ATE

SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

CONSTRUCTION DETAILS

CITY OF DOVER
SUBMISSION

DRAWN	CHK'D/DESIGNER
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CRK AES

SCALE SHEET NO.

NOT TO SCALE

PROJECT NO. _____

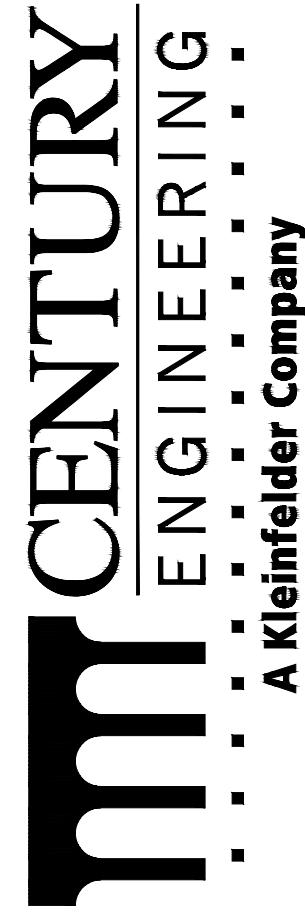
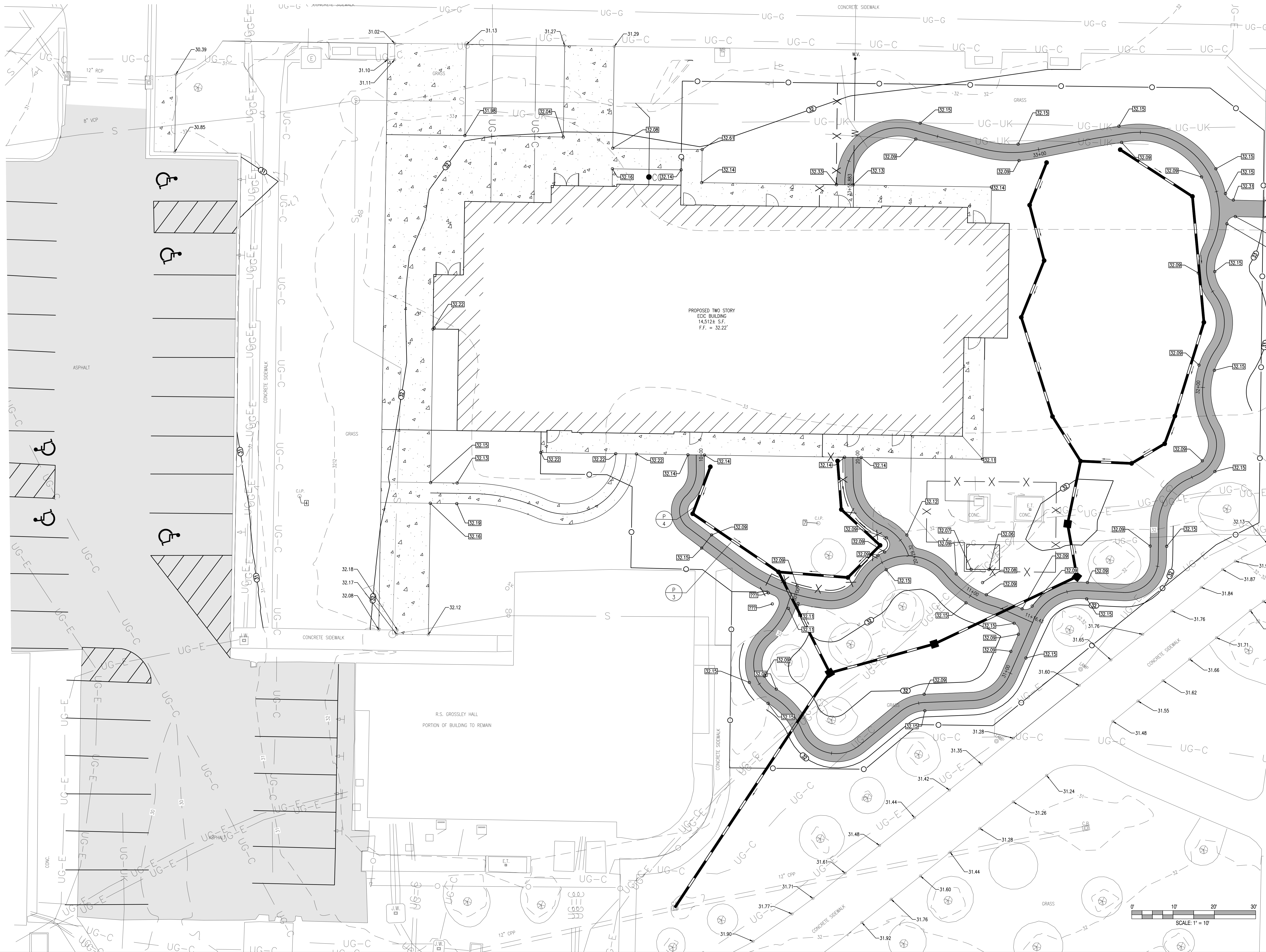
C206

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REVISIONS

ADDENDUM

DESCRIPTION	DATE
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SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY

866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

GRADES & GEOMETRICS

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN CHK'D/DESIGNER

CRK

AES

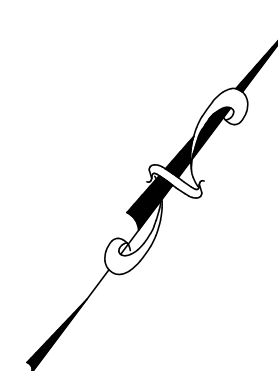
SCALE SHEET NO.

PROJECT NO.

20232855.001

C207



SEAL

SHEET TITLE

SIGNING & STRIPING

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN	CHK'D/D/DESIGNER
CRK	AES
SCALE	SHEET NO.
1" = 20'	C208
PROJECT NO.	
20232855.001	

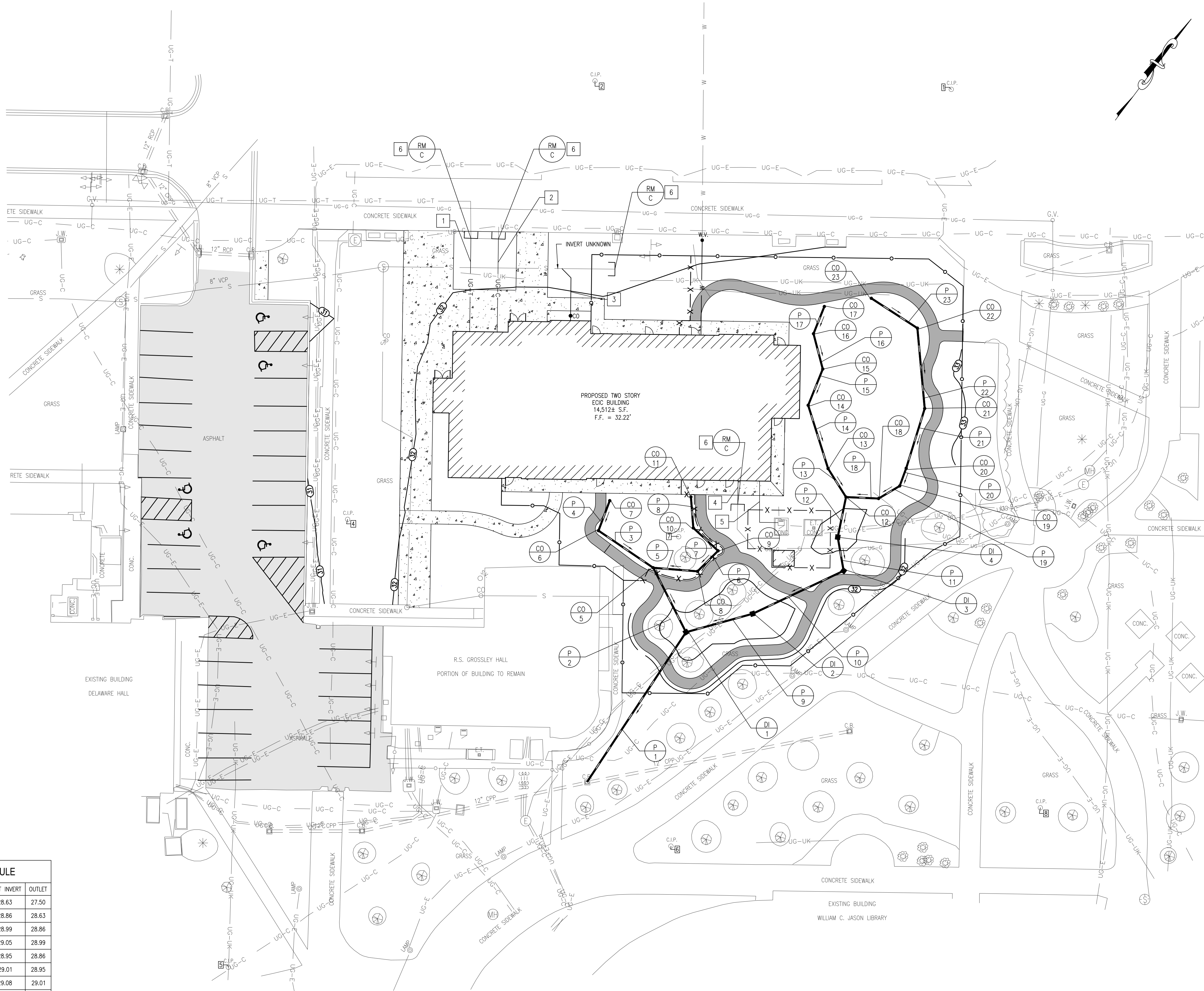


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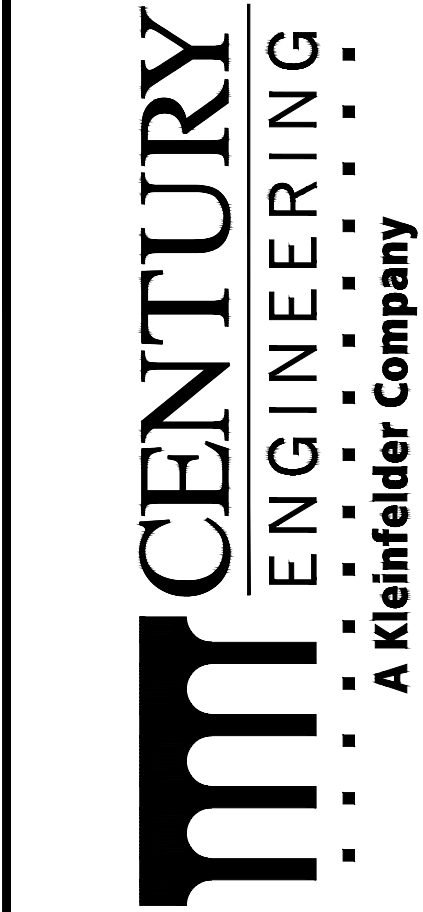
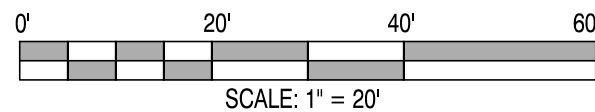
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DRAINAGE INLET SCHEDULE						
DI NO.	SIZE	TOP	PIPE INVERT	NORTHING	EASTING	
1	15"x15"	31.86	28.63	432003.5442	620530.6881	
2	15"x15"	31.66	29.08	432024.3148	620546.7025	
3	15"x15"	32.08	29.68	432058.0550	620564.5067	
4	15"x15"	31.95	29.84	432066.9172	620555.0574	
5	CO	32.07	28.86	432015.6327	620506.0979	
6	CO	32.07	28.99	432014.4295	620481.0240	
7	CO	32.07	29.05	432026.0867	620477.6197	
8	CO	32.07	28.95	432024.6342	620520.3246	
9	CO	32.07	29.01	432035.5351	620521.8876	
10	CO	32.07	29.08	432036.8385	620509.1726	
11	CO	32.13	29.14	432045.6885	620501.3946	
12	CO	32.02	30.04	432080.9555	620548.4472	
13	CO	32.02	30.13	432085.5079	620536.5390	
14	CO	32.18	30.29	432100.1821	620516.0798	
15	CO	32.15	30.39	432114.4856	620512.2593	
16	CO	32.15	30.42	432123.1219	620501.3928	
17	CO	32.05	30.55	432133.8148	620498.5011	
18	CO	32.02	30.16	432087.9310	620558.6527	
19	CO	32.02	30.21	432096.5423	620562.2020	
20	CO	32.05	30.24	432103.3958	620560.1424	
21	CO	32.05	30.37	432125.7389	620552.1500	
22	CO	32.02	30.52	432148.4418	620531.6423	
23	CO	32.05	30.55	432147.0133	620510.8739	

DRAINAGE PIPE SCHEDULE							
PIPE ID	LENGTH	SIZE	TYPE	SLOPE	INLET INVERT	OUTLET	
1	67'	6"	PVC	0.0166	28.63	27.50	
2	26'	6"	PVC	0.0084	28.86	28.63	
3	24'	6"	PVC	0.0052	28.99	28.86	
4	11'	6"	PVC	0.0049	29.05	28.99	
5	16'	6"	PVC	0.0053	28.95	28.86	
6	10'	6"	PVC	0.0054	29.01	28.95	
7	12'	6"	PVC	0.0055	29.08	29.01	
8	11'	6"	PVC	0.0051	29.14	29.08	
9	25'	6"	PVC	0.0172	29.08	28.63	
10	37'	6"	PVC	0.0157	29.68	29.08	
11	11'	6"	PVC	0.0124	29.84	29.68	
12	15'	6"	PVC	0.0129	30.04	29.84	
13	12'	6"	PVC	0.0071	30.13	30.04	
14	25'	6"	PVC	0.0064	30.29	30.13	
15	14'	6"	PVC	0.0068	30.39	30.29	
16	13'	6"	PVC	0.0022	30.42	30.39	
17	10'	6"	PVC	0.0117	30.55	30.42	
18	12'	6"	PVC	0.0097	30.16	30.04	
19	9'	6"	PVC	0.0054	30.21	30.16	
20	6'	6"	PVC	0.0049	30.24	30.21	
21	23'	6"	PVC	0.0053	30.37	30.24	
22	30'	6"	PVC	0.0049	30.52	30.37	
23	20'	6"	PVC	0.0014	30.55	30.52	



- CONSTRUCTION NOTES:**
- 1 EXTEND TELEPHONE TO BUILDING.
 - 2 EXTEND COMMS TO BUILDING.
 - 3 EXTEND SANITARY SEWER TO BUILDING.
 - 4 EXTEND GAS TO BUILDING.
 - 5 EXTEND ELECTRIC TO BUILDING.
 - 6 CONTRACTOR TO REMOVE EXISTING CAP AND CONNECT TO PROPOSED UTILITY.

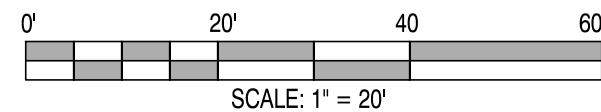
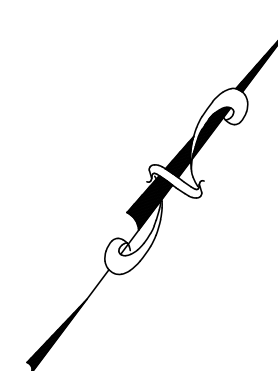


REVISIONS	
ADDENDUM	
△ DESCRIPTION	DATE

SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN
FOR
T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY
866 N. DUPONT HIGHWAY, DOVER, DE 19901
CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

CITY OF DOVER SUBMISSION MAY 2023	
DRAWN CRK	CHK'D/DESIGNER AES
SCALE 1" = 20'	SHEET NO. C209
PROJECT NO. 20232855.001	



CENTURY
ENGINEERING
A Kleinfelder Company

REVISIONS

ADDENDUM

△ DESCRIPTION	DATE
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SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY

866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

PROJECT

SHEET TITLE

LIGHTING PLAN

CITY OF DOVER
SUBMISSION

DRAWN	CHK'D/DESIGNER
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CRK

AES

SCAL

SHEET NO.

$$1'' = 20'$$

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PROJECT NO. _____

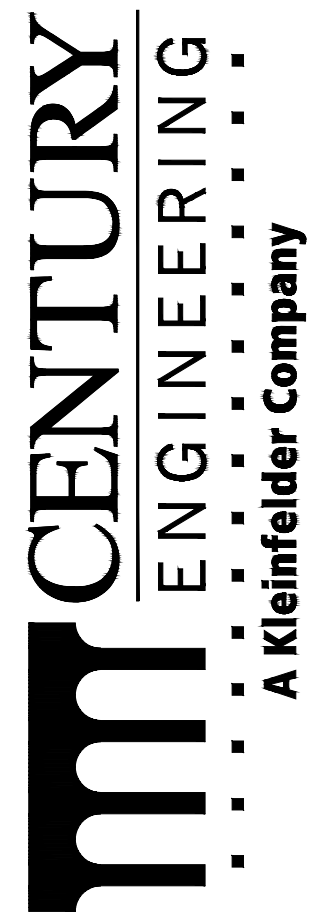
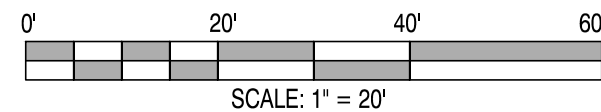
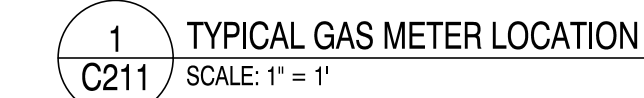
20232855.001

C210

20232855.001



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REVISIONS

ADDENDUM

△ DESCRIPTION	DATE
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SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY

866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

SHEET TITLE

FIRE MARSHAL PLAN

CITY OF DOVER
SUBMISSION

DRAWN	CHK'D/DESIGNER
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CRK

AES

SCAL

SHEET NO.

$$1'' = 20'$$

C211

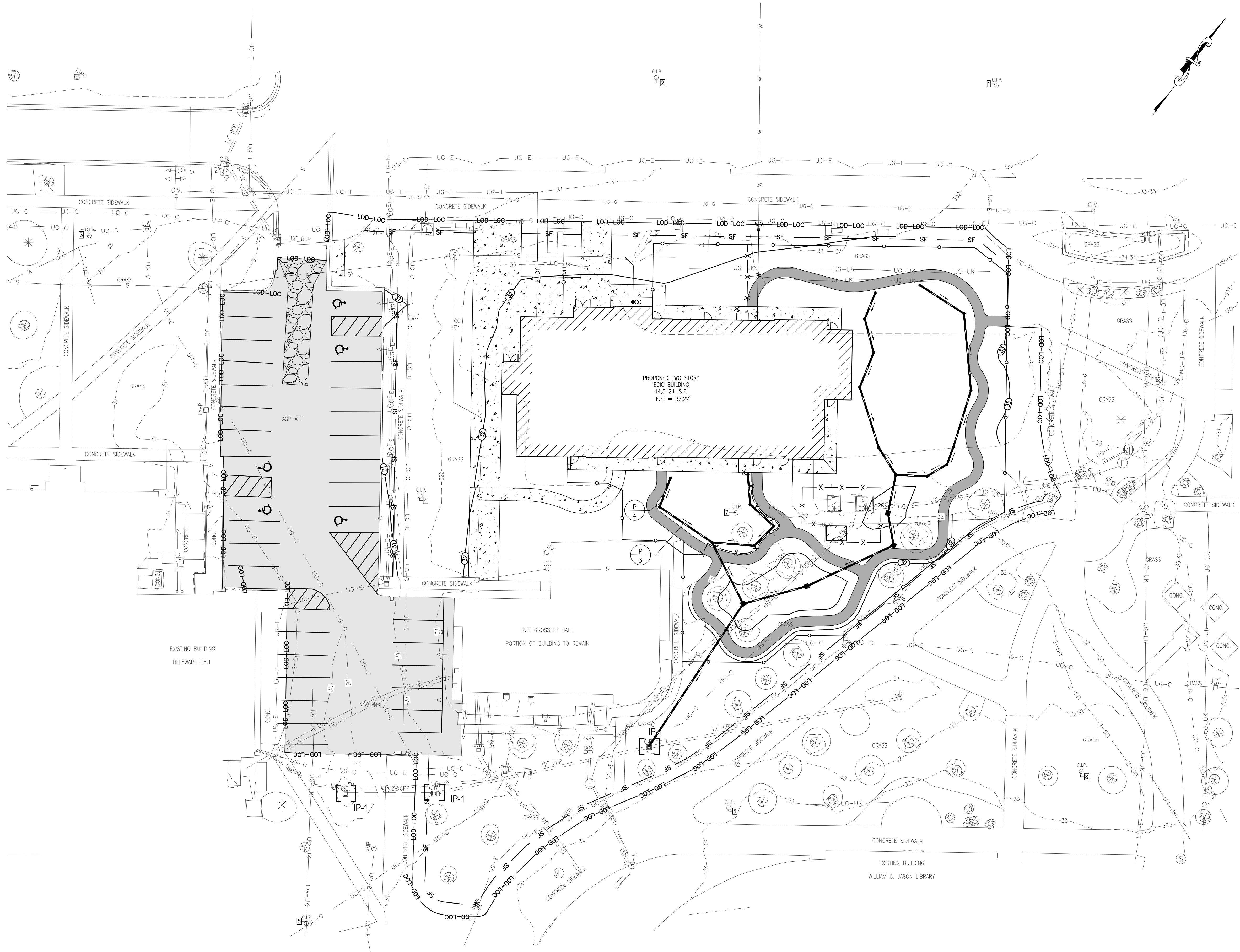
PROJECT NO. _____

20232855.001

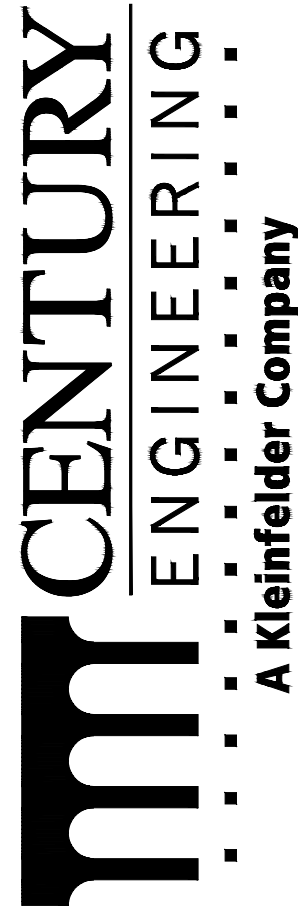
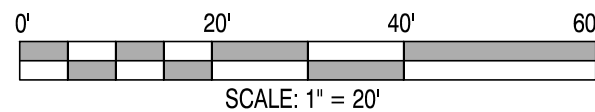


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THIS DRAWING IS THE PROPERTY OF CENTURY ENGINEERING AND IS PREPARED FOR THE EXCLUSIVE USE OF ITS CLIENTS AT THE LOCATION INDICATED. NO OTHER USE IS AUTHORIZED OR INTENDED.



- SEDIMENT AND STORMWATER CONSTRUCTION NOTES**
1. THE DNREC SEDIMENT AND STORMWATER PROGRAM (OR DELEGATED AGENCY) SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
 2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
 3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR THE DELEGATED AGENCY.
 4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
 5. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
 6. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
 7. APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
 8. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
 9. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7, DEL. C. CH 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DNREC POLICIES, PROCEDURES, AND GUIDANCE.



REVISIONS

ADDENDUM

DESCRIPTION	DATE
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SEAL

PROJECT
NEW EDC BUILDING CONSTRUCTION PLAN

FOR
T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY
866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE
CONSTRUCTION SITE
STORMWATER
MANAGEMENT PLAN

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN
CHK'D/DESIGNER

CRK

AES

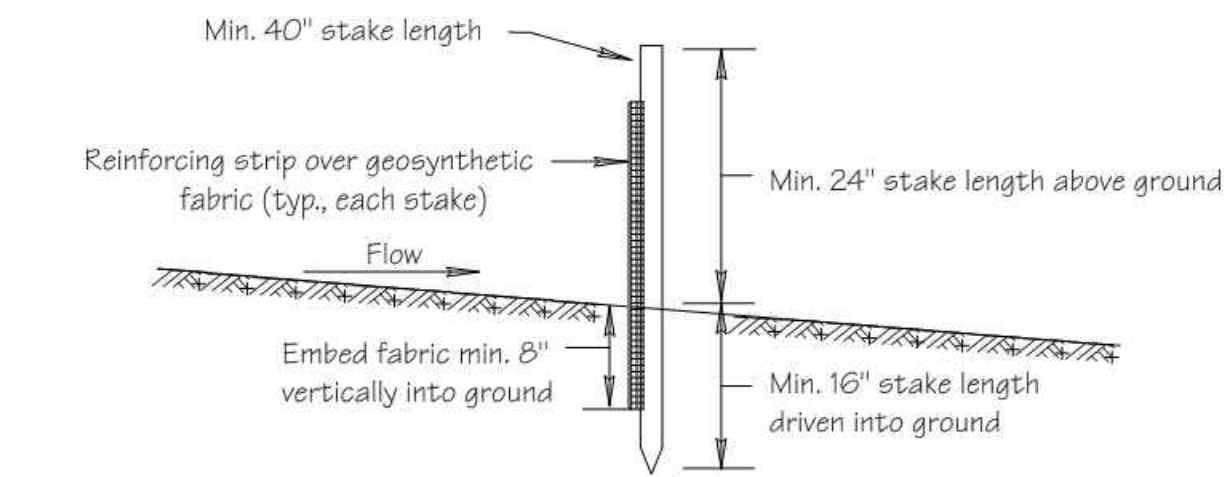
SCALE
SHEET NO.

1" = 20'

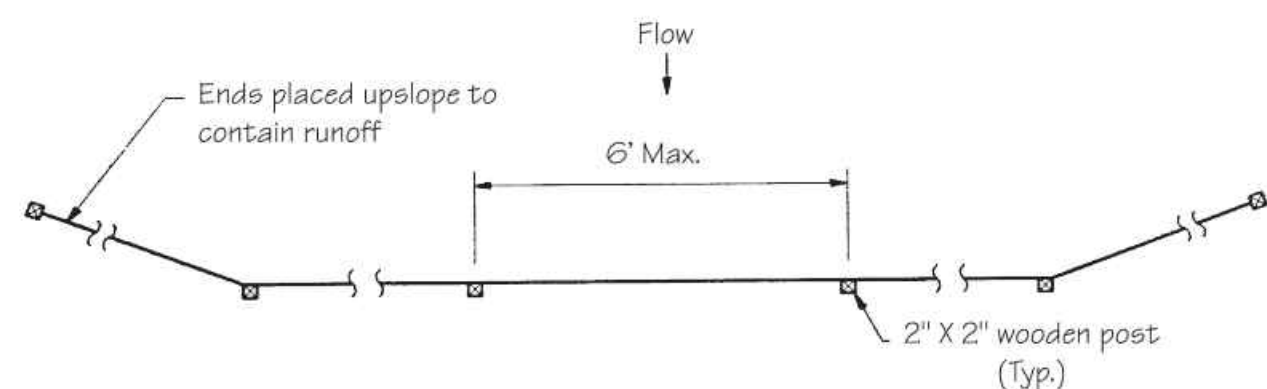
PROJECT NO.
20232855.001

C212

Standard Detail & Specifications
Silt Fence



Section



Plan

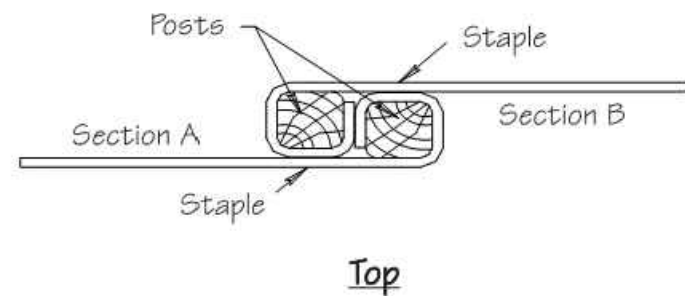
DATA
Max. controlled slope

Source:	Symbol:	Detail No.
Adapted from MD Sids. & Specs. for ESC	SF	DE-ESC-3.1.2.1 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications
Silt Fence



Construction Detail



Method for joining
continuous sections

Construction Notes:

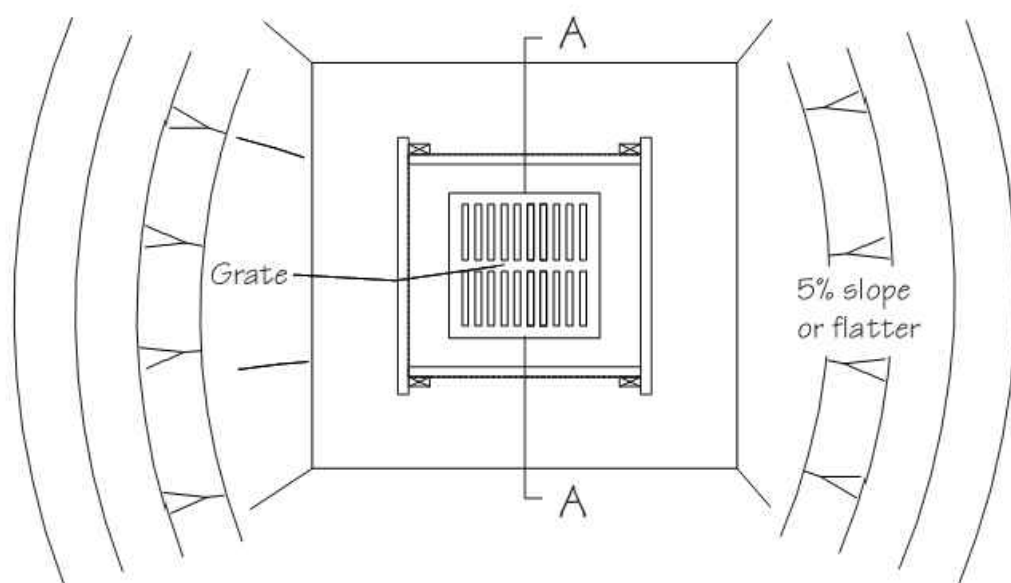
- Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

Materials:

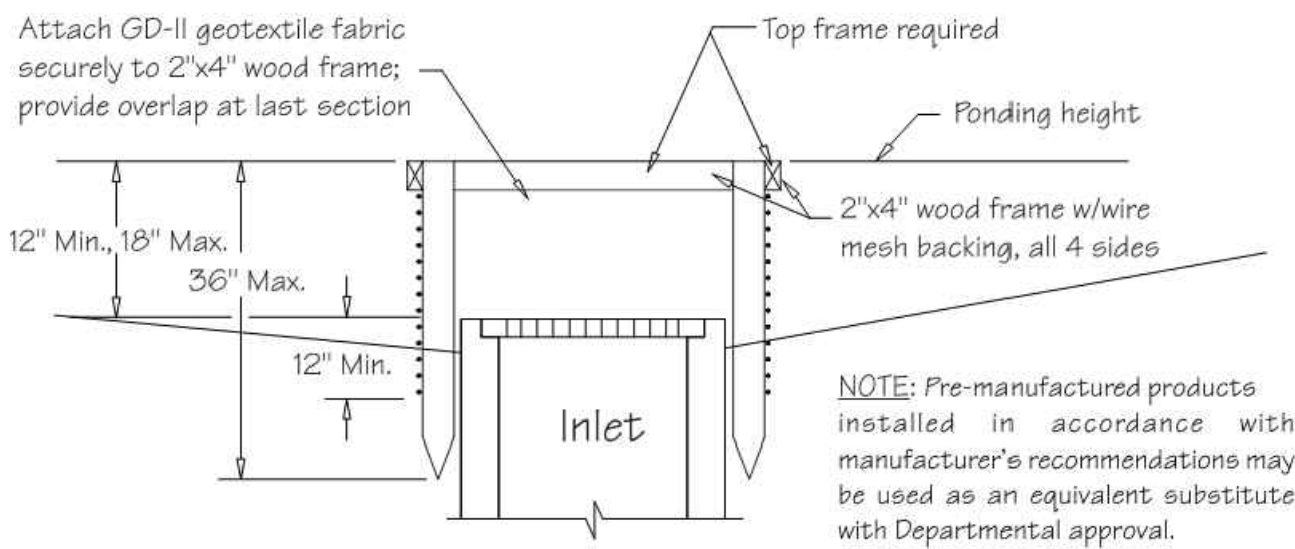
- Stakes: Steel (either T or U) or 2" x 2" hardwood
- Geosynthetic Fabric: Type GD-I
- Reinforcing strip: Wooden lath or plastic strip

Source:	Symbol:	Detail No.
Adapted from MD Sids. & Specs. for ESC	SF	DE-ESC-3.1.2.1 Sheet 2 of 2 Effective FEB 2019

Standard Detail & Specifications
Inlet Protection - Type 1



Plan



Section A-A

Source:	Symbol:	Detail No.
Adapted from Erosion Draw Manual J. McCullah & Assoc.	IP-1	DE-ESC-3.1.5.1 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications
Inlet Protection - Type 1



Construction Notes:

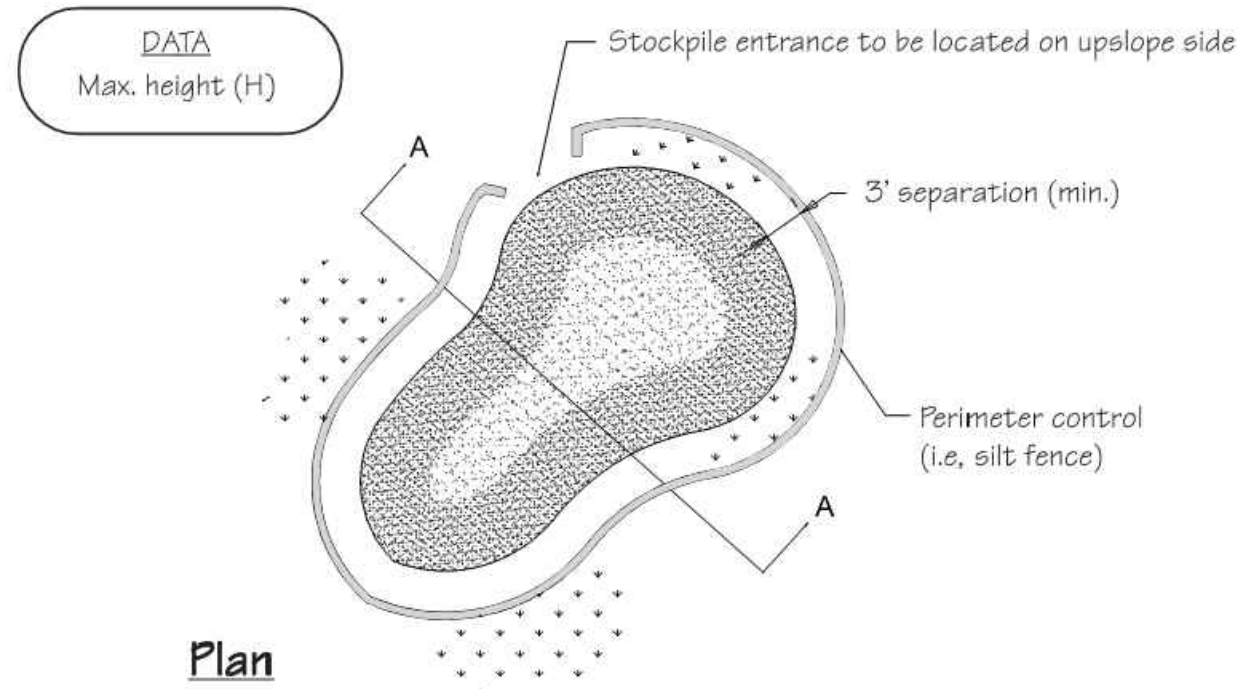
- Excavate completely around inlet to a depth of 18" below grate elevation.
- Drive 2" x 4" post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2" x 4" frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch geotextile fabric tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet grate elevation. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until at least 12" of geotextile fabric is buried.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Materials:

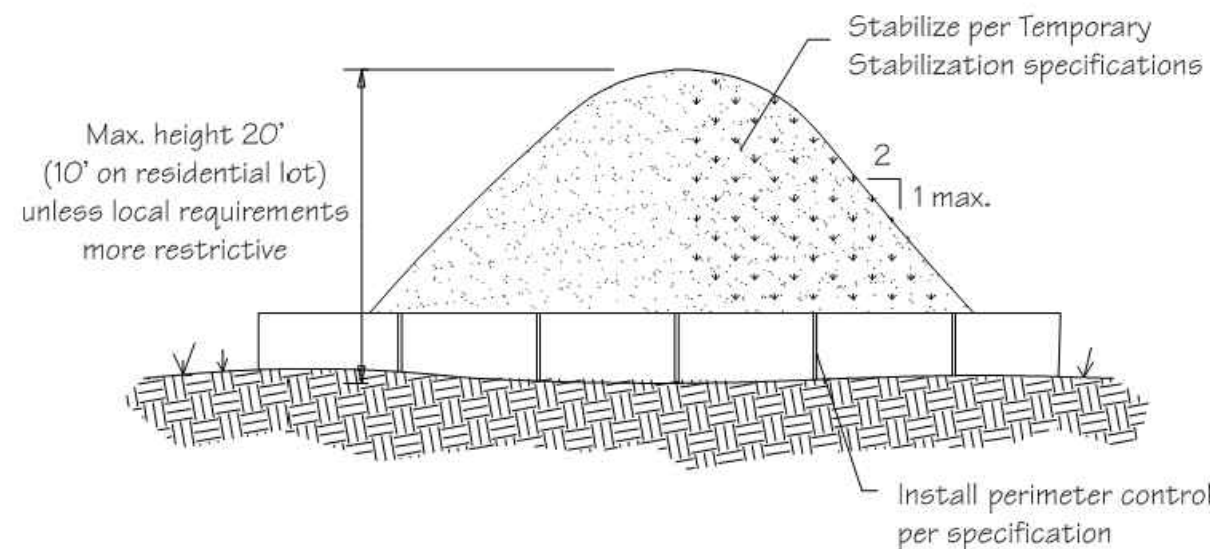
- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
- Wire mesh must be of sufficient strength to support filter fabric with water fully impounded against it.
- Geotextile fabric: Type GD-II

Source:	Symbol:	Detail No.
Adapted from Erosion Draw Manual J. McCullah & Assoc.	IP-1	DE-ESC-3.1.5.1 Sheet 2 of 2 Effective FEB 2019

Standard Detail & Specifications
Soil Stockpile



Plan



Section A-A

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications
Soil Stockpile



Construction Notes:

- Locate stockpiles so that they are 50 feet from any storm drain inlet, open channel, wetland or waterbody. Redirect any concentrated flow around the stockpile using an approved erosion and sediment control measure.
- Secure the perimeter of the stockpile with an approved erosion and sediment control perimeter device.
- If stockpile is to remain inactive for more than 14 calendar days, the stockpile must be vegetated. Follow the temporary vegetation specifications. The vegetation chosen shall last the duration of the stockpile; the stockpile shall be restabilized if the temporary vegetation dies or erosion results.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 2 of 2 Effective FEB 2019

Standard Detail & Specifications
Topsoiling



Construction Notes:

- Site Preparation (Where Topsoil is to be added)

Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.

- Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained.
- Liming - Where the topsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 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 areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.

- Topsoil Material and Application

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications
Topsoiling



Construction Notes (cont.)

- Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, 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, thistles, or others as specified. All topsoil shall be tested by a reputable laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content of 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.

Note: No sod 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.

- Grading - The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding 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 or water pockets. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Note: Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil. Compost material used to improve the percentage of organic matter shall be provided by a certified supplier.

Compost amendments that are intended to meet specific post-construction stormwater management goals shall further meet the requirements of **Appendix 3.06.2 Post Construction Stormwater Management BMP Standards and Specifications, Section 14.0 Soil Amendments.**

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 2 of 2 Effective FEB 2019



Standard Detail & Specifications Vegetative Stabilization



TEMPORARY SEEDING BY RATES, DEPTHS AND DATES											
Mix #	Species ⁴	Seeding Rate		Optimum Seeding Dates ¹							Planting Depth ³
				O = Optimum Planting Period; A = Acceptable Planting Period							
		Certified Seed	lb/Ac ⁵	lb/1000 sq.ft.	Coastal Plain		Piedmont		All ⁶		
					2/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-7/31	8/1-10/31	
1	Barley	125	4	O	A	O	O	A	A	1-2 inches 2-3" sandy soils	
2	Oats	125	4	O	A	A	O	A	A	1-2 inches 2-3" sandy soils	
3	Rye	125	4	O	A	O	O	A	O	1-2 inches 2-3" sandy soils	
4	Perennial Ryegrass	125	4	O	A	O	O	A	O	0.5 inches 1-2" sandy soils	
5	Annual Ryegrass	125	4	O	A	O	O	A	O	0.5 inches 1-2" sandy soils	
6	Winter Wheat	125	4	O	A	O	O	A	O	1-2 inches 2-3" sandy soils	
7	Foxtail Millet	30 PLS	0.7							0.5 inches 1-2" sandy soils	
8	Pearl Millet	20 PLS	0.5							0.5 inches 1-2" sandy soils	

- Winter seeding requires 3 tons per acre of straw mulch for proper stabilization.
- May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
- Applicable on slopes 3:1 or less.
- Five pounds per acre of Annual Lespedeza may be added to 1/2 the seeding rate of any of the above species.
- Use varieties currently recommended for Delaware. Contact a County Extension Office for information.
- Warm season grasses such as Millet or Weeping Lovegrass may be used between 5/1 and 9/1 if desired. Seed at 4-5 lbs. per acre. Good on low fertility and acid areas. Seed after frost throughout summer at a depth of 0.5".

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 1 of 4 Effective FEB 2019

Standard Detail & Specifications Mulching



1. Materials and Amounts

- Straw** - Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds (two bales) per 1,000 square feet. Mulch materials shall be relatively free of weeds and shall be free of noxious weeds such as; thistles, Johnsongrass, and quackgrass. Spread mulch uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square feet sections and place 70-90 pounds (two bales) of mulch in each section.
- Wood chips** - Apply at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square feet when available and when feasible. These are particularly well suited for utility and road rights-of-way. If wood chips are used, increase the application rate of nitrogen fertilizer by 20 pounds of N per acre (200 pounds of 10-10-10 or 66 pounds of 30-0-0 per acre).
- Hydraulically applied mulch** - The following conditions apply to hydraulically applied mulch:
 - Definitions:
 - Wood fiber mulch shall consist of specially prepared wood that has been processed to a uniform state, is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment, and consists of a minimum of 70% virgin or recycled wood fiber combined with 30% paper fiber and additives.
 - Blended fiber mulch shall consist of any hydraulic mulch that contains greater than 30% paper fiber. The paper component must consist of specially prepared paper that has been processed to a uniform fibrous state and is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment.
 - A bonded fiber matrix (BFM) consists of long strand, specially prepared wood fibers that have been processed to a uniform state held together by a water resistant bonding agent. BFMs shall contain no paper (cellulose) mulch but may contain small percentages of synthetic fibers to enhance performance.
 - Refer to **Figure 3.4.5a** for conditions and limitations of use for each of the above categories of hydraulic mulch.
 - All components of the hydraulically applied mulches shall be pre-packaged by the manufacturer to assure material performance. Field mixing of the mulch components is acceptable, but must be done per manufacturers recommendations to ensure the proper results.
 - Hydraulic mulches shall be applied with a viable seed and at manufacturer's recommended rates. Increased rates may be necessary based on site conditions.
 - Hydraulically applied mulches and additives shall be mixed according to manufacturers recommendations.
 - Materials within this category shall only be used when hydraulically applied mulch has been specified for use on the approved Sediment and Stormwater Plan, or supplemental approval from the plan approval agency has been obtained in writing for a specific area.

Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrex TM International		DE-ESC-3.4.5 Sheet 1 of 3 Effective FEB 2019

Standard Detail & Specifications Vegetative Stabilization



PERMANENT SEEDING AND SEEDING DATES										
Mix No.	Certified Seed ²	Seeding Rate ¹		Optimum Seeding Dates ¹						
				O = Optimum Planting Period; A = Acceptable Planting Period						
		lb/Ac.	lb/1000 sq.ft.	Coastal Plain	Piedmont	All ⁶				
1	Tall Fescue	140	3.2	A	O	A	O	A	O	Good erosion control mix. Tolerant of low fertility soils. Lovegrass very difficult to mow; Germinates only in hot weather.
2	Deerfoot Sheep Fescue	30	0.69	A	O	A	A	A	O	Good erosion control mix. Tolerant of low fertility soils. Good wildlife cover and food.
3	Tall Fescue (Lurtype) or Strong Creeping Red Fescue or Perennial Ryegrass	50	1.15	O	A	O	O	A	O	Good erosion control mix. Tolerant of low fertility soils. Good wildlife cover and food.
4	String Creeping Red Fescue	100	2.3	O	A	O	O	A	O	Good erosion control mix. Tolerant of low fertility soils. Good wildlife cover and food.
5	Switchgrass ⁵ or Coastal Panicgrass	10	0.23	O						Native warm-season mixture. Tolerant of low fertility soils. Drought tolerant.
6	Tall Fescue (Lurtype) (Blend of 3 cultivars)	150	3.5	O	A	O	O	A	O	Managed filter strip for nutrient uptake.
7	Tall Fescue Ry. Bluegrass (Blend) Perennial Ryegrass	150	3.5	O	A	O	O	A	O	Three cultivars of Kentucky Bluegrass. Traffic tolerant.
8	Big Bluestem Indian Grass ⁷ Little Bluestem Creeping Red Fescue	10	0.23	O	A			O	A	All species are native. Indian Grass and Bluestem have fluffy seeds. Plant with a specialized native seed drill.
9	Partridge Pea Bush Clover Wild Indigo Showy Tick-Trefoil	5	0.11							Creeping Red Fescue will provide erosion protection while the warm season grasses get established.

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 2 of 4 Effective FEB 2019

Standard Detail & Specifications Vegetative Stabilization



PERMANENT SEEDING AND SEEDING DATES (cont.)										
Mix No.	Certified Seed ²	Seeding Rate ¹		Optimum Seeding Dates ¹						
				O = Optimum Planting Period; A = Acceptable Planting Period						
		lb/Ac.	lb/1000 sq.ft.	Coastal Plain	Piedmont	All ⁶				
9	Redtop Creeping Bentgrass Sheep Fescue Rough Bluegrass	75	1.72	O	A	O	O	A	O	Quick stabilization of disturbed sites and waterways.
10	Need Lovegrass	45	1							Good erosion control mix. Tolerant of low fertility soils. Good wildlife cover and food.
Residential Lawns										
11	Tall Fescue Perennial Ryegrass Kentucky Bluegrass Blend	100	2.3	O	A	O	O	A	O	High value, high maintenance, light traffic, irrigation necessary. Well drained soils, full sun.
12	Tall Fescue Perennial Ryegrass Sheep Fescue	100	2.3	O	A	O	O	A	O	Moderate value; low maintenance, traffic tolerant.
13	Creeping Red Fescue Chewings Fescue Rough Bluegrass Kentucky Bluegrass	50	1.15	O	A	O	O	A	O	Shade tolerant; moderate traffic tolerance, moderate maintenance.
14	Creeping Red Fescue Rough Bluegrass or Chewings Fescue	50	1.15	O	A	O	O	A	O	Shade tolerant, moisture tolerant.
15	K-31 Tall Fescue	150	3.5	O	A	O	O	A	O	Monoculture, but performs well alone in lawns. Discouraged.

- When hydroseeding is the chosen method of application, the total rate of seed should be increased by 25%.
- Winter seeding requires 3 tons per acre of straw mulch. Planting dates listed above are average for Delaware. These dates may require adjustment to reflect local conditions.
- All seed shall meet the minimum purity and minimum germination percentages recommended by the Delaware Department of Agriculture. The maximum % of weed seeds shall be in accordance with Section 1, Chapter 24, Title 3 of the Delaware Code.
- Cool season species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
- All leguminous seed must be inoculated.
- Warm season grass mix and Rye Seed Canary Grass cannot be mowed more than 4 times per year.
- Warm season grasses require a soil temperature of at least 50 degrees in order to germinate, and will remain dormant until then.

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective FEB 2019

Standard Detail & Specifications Mulching



MULCHING MATERIAL SELECTION GUIDE										
Percent Slope Less than 2%	Type of Mulch / App. Rate ¹	Sept. 1 to Nov. 30		Dec. 1 to Feb. 28/29		March 1 to May 31		June 1 to Aug. 31		2-1 Max.
		OK	OK	OK	OK	OK	OK	OK	OK	
2% to 5%	Wood Fiber @ 2000-2500 lb/ac. min. BFM @ 300-350 lb/ac. min. Straw @ 2 Tons/ac. min. Stabilization Matting ² (CB).	OK	OK	OK	OK	OK	OK	OK	OK	2-1 Max.
6% to 10.9%	Wood Fiber @ 2000-2500 lb/ac. min. BFM @ 300-350 lb/ac. min. Straw @ 2 Tons/ac. min. Stabilization Matting ² (CB).	OK	OK	OK	OK	OK	OK	OK	OK	2-1 Max.
11% to 24.9%	Wood Fiber @ 2000-2500 lb/ac. min. BFM @ 300-350 lb/ac. min. Straw @ 2 Tons/ac. min. Stabilization Matting ² (CB).	OK	OK	OK	OK	OK	OK	OK	OK	2-1 Max.
25% to 33%	Wood Fiber @ 2000-2500 lb/ac. min. BFM @ 300-350 lb/ac. min. Straw @ 2 Tons/ac. min. Stabilization Matting ² (CB).	OK	OK	OK	OK	OK	OK	OK	OK	2-1 Max.
33% and up	Wood Fiber @ 2000-2500 lb/ac. min. BFM @ 300-350 lb/ac. min. Straw @ 2 Tons/ac. min. Stabilization Matting ² (CB).	OK	OK	OK	OK	OK	OK	OK	OK	2-1 Max.

Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrex TM International		DE-ESC-3.4.5 Sheet 3 of 3 Effective FEB 2019

Standard Detail & Specifications Vegetative Stabilization



Construction Notes:

- Site Preparation
 - Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins.
 - Final grading and shaping is not necessary for temporary seedings.
- Seedbed Preparation

It is important to prepare a good seedbed to insure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted.

- Soil Amendments
 - Lime - Apply liming materials based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil.
 - Fertilizer - Apply fertilizer based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly and incorporate into the top 4 to 6 inches of soils.

- Seeding
 - For **temporary stabilization**, select a mixture from **Sheet 1**. For a **permanent stabilization**, select a mixture from **Sheet 2** or **Sheet 3** depending on the conditions. Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.
 - Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth.
 - Seed that has been broadcast should be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without interruption.

- Mulching

All mulching shall be done in accordance with detail **DE-ESC-3.4.5**.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 4 of 4 Effective FEB 2019

Standard Detail & Specifications Dust Control



Temporary Methods:

- Mulches - See **DE-ESC-3.4.5**, Standard Detail and Specifications for Mulching.
- Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
- Adhesives - Use on mineral soils only (not effective on muck soils). Keep traffic off these areas. The following table may be used for general guidance.

Type of Emulsion	Water Dilution	Type of Nozzle	Apply Gal/Ac.
Latex emulsion	12.5:1	Fine spray	235
Resin-in-water emulsion	4:1	Fine spray	300
Acrylic emulsion (non-traffic)	7:1	Coarse spray	450
Acrylic emulsion (traffic)	3.5:1	Coarse spray	350

- Tillage - For emergency temporary treatment, scarify the soil surface to prevent or reduce the amount of blowing dust until a more appropriate solution can be implemented. Begin the tillage operation on the windward side of the site using a chisel-type plow for best results.
- Sprinkling - Sprinkle site with water until the surface is moist. Repeat as needed.
- Calcium Chloride - Apply as flakes or granular material with a spreader at a rate that will keep the soil surface moist. Re-apply as necessary.
- Barriers - Place barriers such as solid board fences, snow fences, hay bales, etc. at right angles to the prevailing air currents at intervals of approx. 10X their height.

- Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
- Stone - Apply layer of crushed stone or coarse gravel to protect soil surface.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook		DE-ESC-3.4.8 Sheet 1 of 1 Effective FEB 2019

REVISIONS

ADDENDUM

DESCRIPTION DATE

SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN
FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY
886 N. DUPONT HIGHWAY, DOVER, DE 19801

CITY OF DOVER; EAST DOVER HUNDRED; STATE OF DELAWARE

SHEET TITLE

EROSION AND SEDIMENT
CONTROL DETAILS

CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN CHK'D/DESIGNER

CRK

AES

SCALE SHEET NO.

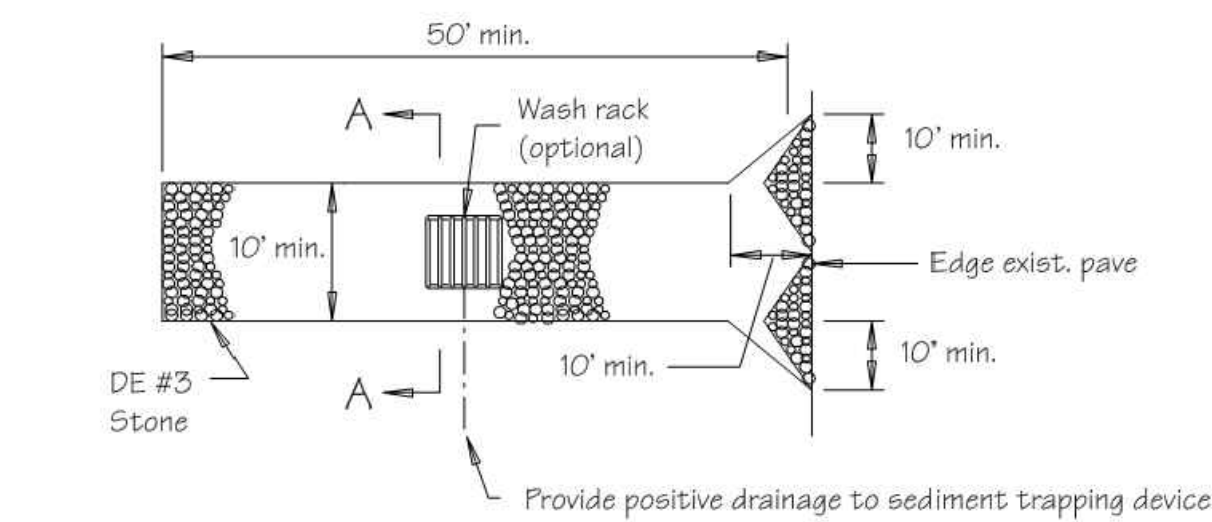
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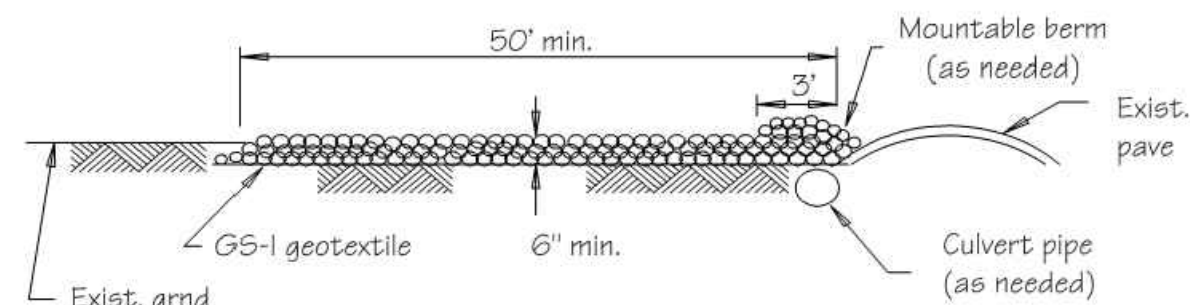
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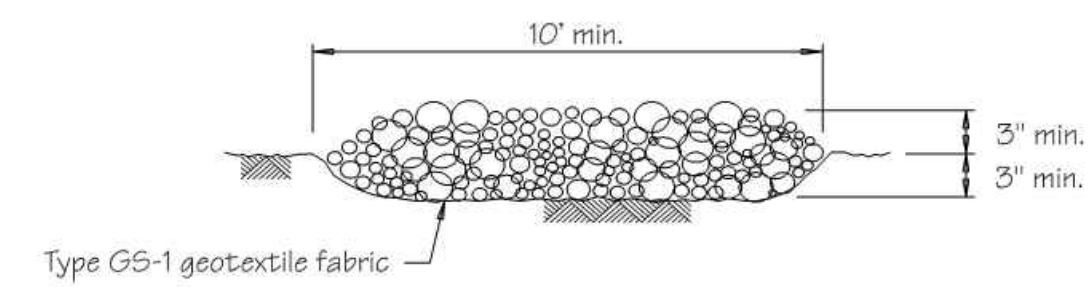
Standard Detail & Specifications Stabilized Construct. Entrance



Plan



Profile



Section A-A (Std.)

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	DE-ESC-3.4.7 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications Sensitive Area Protection

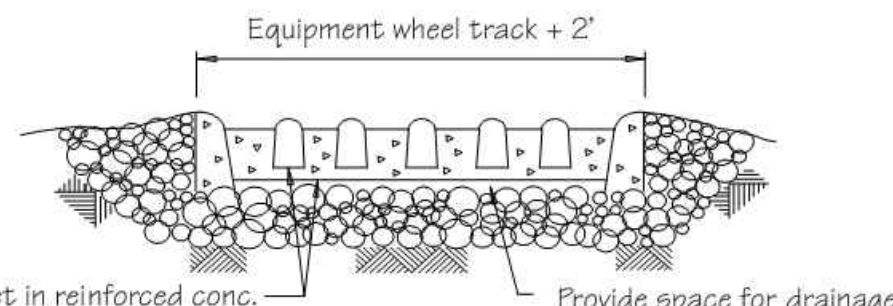
- Cord Fence - Posts with a minimum size of 2 inches square or 2 inches in diameter set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with two rows of cord 1/4-inch or thicker at least 2 feet apart running between posts with strips of colored surveyor's flagging tied securely to the string at intervals no greater than 3 feet.
- Earth Berms - Temporary earth berms shall be constructed according to specifications for a Temporary Earth Dike with the base of the berm on the sensitive area side located along the limits of clearing. Earth berms may not be used for this purpose if their presence will conflict with drainage patterns.
- Trunk Armoring (Tree Protection Only) - As a last resort, a tree trunk can be armored with burlap wrapping and 2-inch studs wired vertically no more than 2 inches apart to a height of 5 feet encircling the trunk. If this alternative is used, the root zone within the drip line will still require protection. Nothing should ever be nailed to a tree.

Maintenance:

Fencing and armoring devices shall be in place before any excavation or grading is begun, shall be kept in good repair for the duration of construction activities, and shall be the last items removed during the final cleanup after the completion of the project.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 3 of 3 Effective FEB 2019

Standard Detail & Specifications Stabilized Construct. Entrance



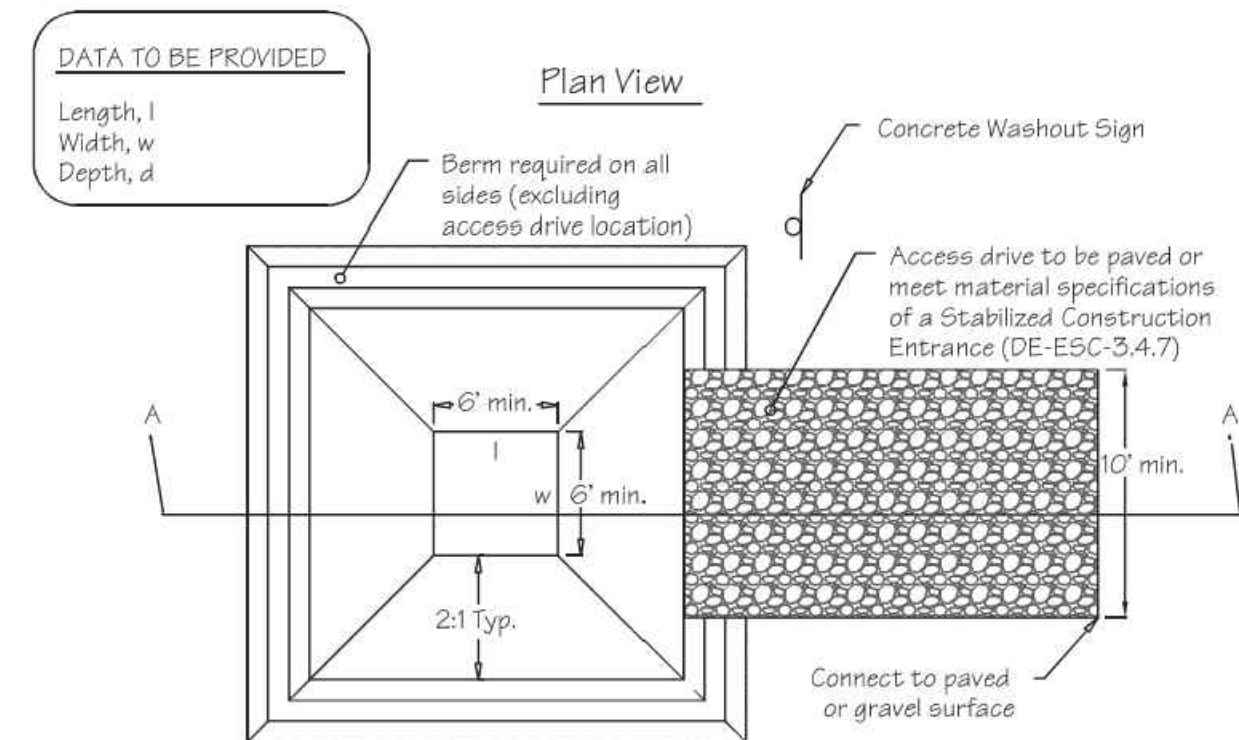
Section A-A (Opt.)

Construction Notes:

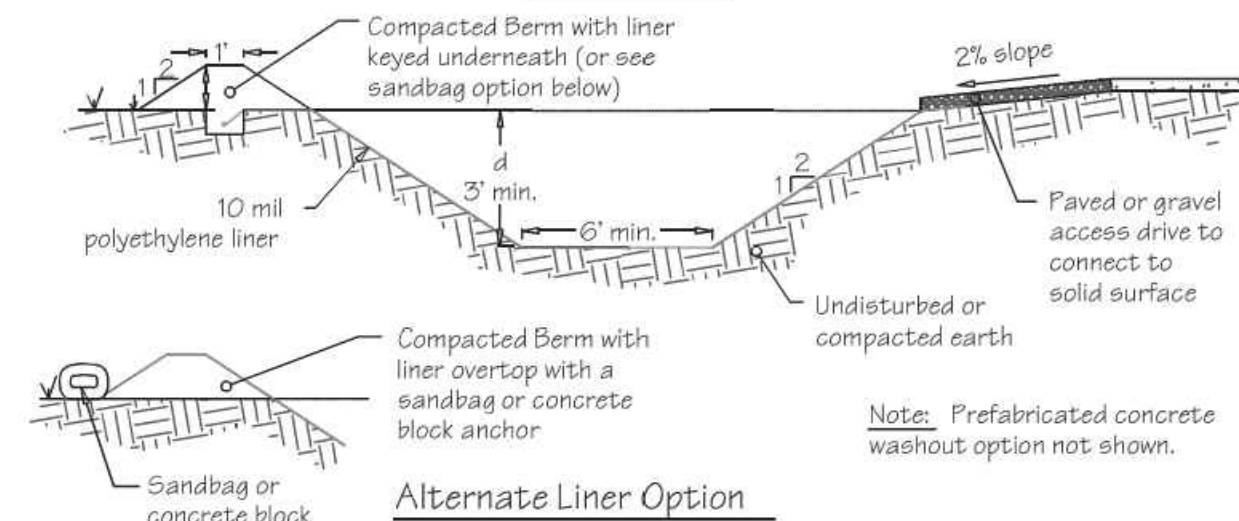
- Stone size - Use DE #3 stone.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than size (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Geotextile - Type GS-1; placed over the entire area prior to placing of stone.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Inspection - Periodic inspection and needed maintenance shall be provided after each rain.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	DE-ESC-3.4.7 Sheet 2 of 2 Effective FEB 2019

Standard Detail & Specifications Concrete Washout



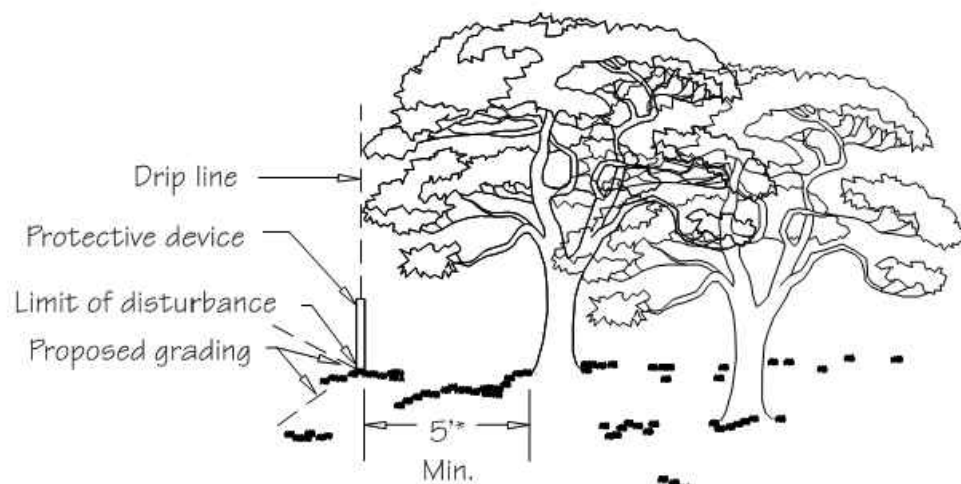
Section A-A



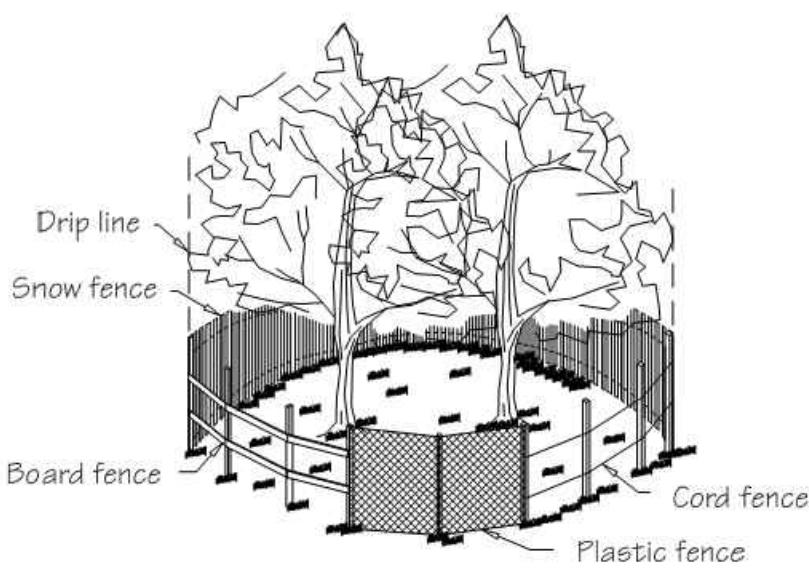
Alternate Liner Option

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 1 of 2 Effective FEB 2019

Standard Detail & Specifications Sensitive Area Protection



Location of Sensitive Area Protection



Methods of Sensitive Area Protection

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 1 of 3 Effective FEB 2019

Construction Notes:

- Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.
- Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.
- Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.
- The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overlap with sandbags or concrete blocks to hold in place.
- Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
- Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
- Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 2 of 2 Effective FEB 2019

Standard Detail & Specifications Sensitive Area Protection

Construction Notes:

Fencing shall be installed at the extents of all sensitive areas. For trees, the fencing shall be installed outside the dripline (mature canopy) and at no time within 5 feet of the trunk. Personnel must be instructed to honor protective devices. The devices described are suggested only, and are not intended to exclude the use of other devices which will protect the trees to be retained. If silt fence is to be used for demarcation purposes, appropriate signage shall be provided a minimum of every 20 feet denoting the area as a sensitive area protection zone.

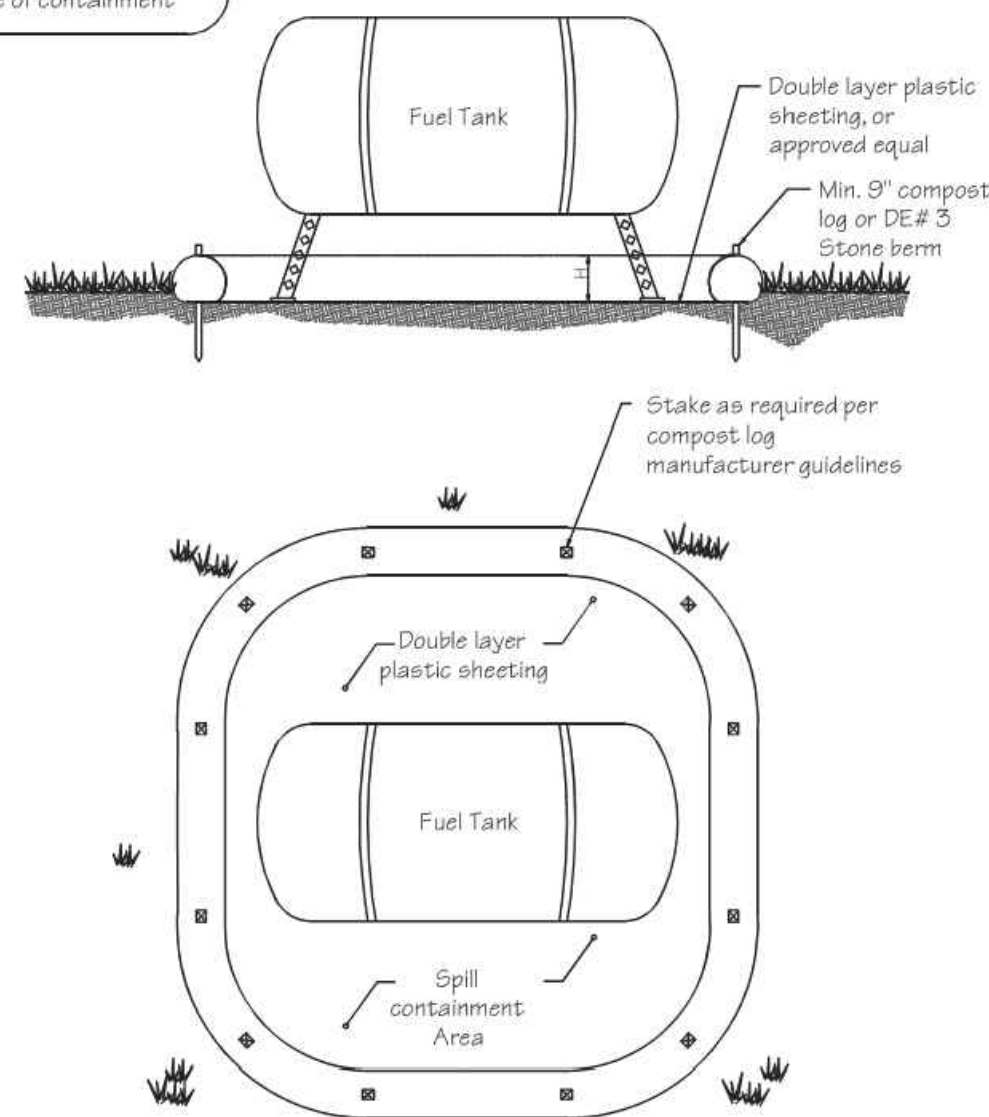
Materials:

- Snow Fence - Standard 40-inch high snow fence shall be placed at the limits of clearing or construction on standard steel posts set 6 feet apart.
- Board Fence - Board fencing consisting of 4-inch square posts set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with a minimum of two horizontal boards between posts. For tree protection, if it is not practical to erect a fence at the drip line, construct a triangular fence nearer the trunk. The limits of clearing will still be located at the drip line, since the root zone within the drip line will still require protection.
- Plastic Fencing - 40-inch high "international orange" plastic (polyethylene) web fencing secured to conventional metal "T" or "U" posts driven to a minimum depth of 18 inches on 6-foot minimum centers shall be installed at the limits of clearing. The fence should have the following minimum physical qualities:
 - Tensile yield: Average 2,000 lbs. per 4-foot width (ASTM D638)
 - Ultimate tensile yield: Average 2,900 lbs. per 4-foot width (ASTM D638)
 - Elongation at break (%): Greater than 1000% (ASTM D638)
 - Chemical resistance: Inert to most chemicals and acids

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 2 of 3 Effective FEB 2019

Standard Detail & Specifications Construction Site Waste Mgt & Spill Control

DATA TO BE PROVIDED:
Volume of Potential Pollution
Height of containment
Area of containment
Volume of containment



Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.6.1 Sheet 1 of 5 Effective FEB 2019



1. Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
2. Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
3. Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
4. Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
5. Place a "Fueling Area" sign next to each fueling area.
6. Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
7. Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.
8. Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.
9. If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
10. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

1. If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.
2. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
3. Do not bury spills or wash them down with water.

1. Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
2. Do not allow oil, grease, fuel or chemicals to drip onto the ground.
3. Have spill kits and clean up material on-site.
4. Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
5. Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
6. Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.

Source: Delaware ESC Handbook	Symbol:	Detail No. DE-ESC-3.6.1 Sheet 2 of 5 Effective FEB 2019
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- a. Concrete
- b. Detergents
- c. Paints (enamel and latex)
- d. Cleaning solvents
- e. Pesticides
- f. Wood scraps
- g. Fertilizers
- h. Petroleum based products

- Store only enough product required to do the job.
- All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.
- Substances shall not be mixed.
- When possible, all of a product shall be used up prior to disposal of the container.
- Manufacturers' instructions for disposal shall be strictly adhered to.
- The site foreman shall designate someone to inspect all BMPs daily.

- All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.
- Waste materials shall be salvaged and/or recycled whenever possible.
- The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-92-002	Symbol:	Detail No. DE-ESC-3.6.1 Sheet 3 of 5 Effective FEB 2019
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- d. Trash shall be disposed of in accordance with all applicable Delaware laws.
- e. Trash cans shall be placed at all lunch spots and littering is strictly prohibited. Recycle bins shall be placed near the construction trailer.
- f. If fertilizer bags can not be stored in a weather-proof location, they shall be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

- a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.
- b. If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.
- c. Drip pans shall be used for all equipment maintenance.
- d. Equipment shall be inspected for leaks on a daily basis.
- e. Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.
- f. Fuel nozzles shall be equipped with automatic shut-off valves.
- g. All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and regulations.

- Potential spill areas shall be identified and contained in covered areas with no connection to the storm drain system.
- Warning signs shall be posted in hazardous material storage areas.
- Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other equipment as necessary.
- Low or non-toxic substances shall be prioritized for use.

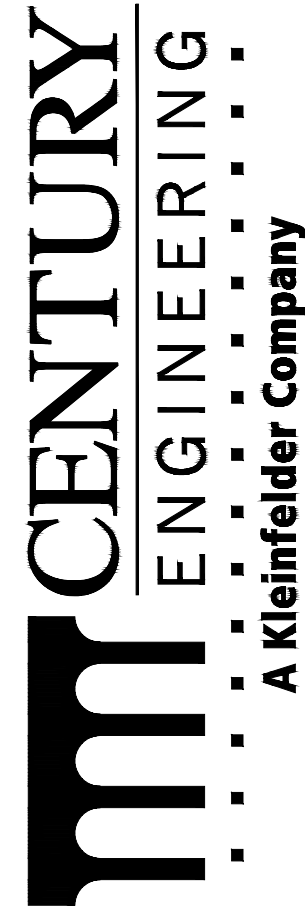
Source: Adapted from USEPA Pub. 840-B-92-002	Symbol:	Detail No. DE-ESC-3.6.1 Sheet 4 of 5 Effective FEB 2019
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- a. Best management practices for construction site pollution control shall be a part of regular progress meetings.
- b. Information regarding waste management, equipment maintenance and spill prevention shall be prominently posted in the construction trailer.

DNREC 24-Hour Toll Free Number	800-662-8802
DNREC Solid & Hazardous Waste Management Section	302-739-9403

Source: Adapted from USEPA Pub. 840-B-92-002	Symbol:	Detail No. DE-ESC-3.6.1 Sheet 5 of 5 Effective FEB 2019
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△ DESCRIPTION	DATE
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SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN

FOR
T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY
866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

EROSION AND SEDIMENT CONTROL DETAILS

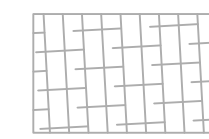
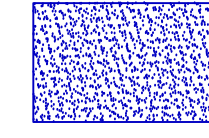
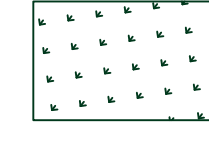
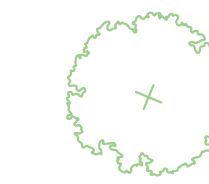
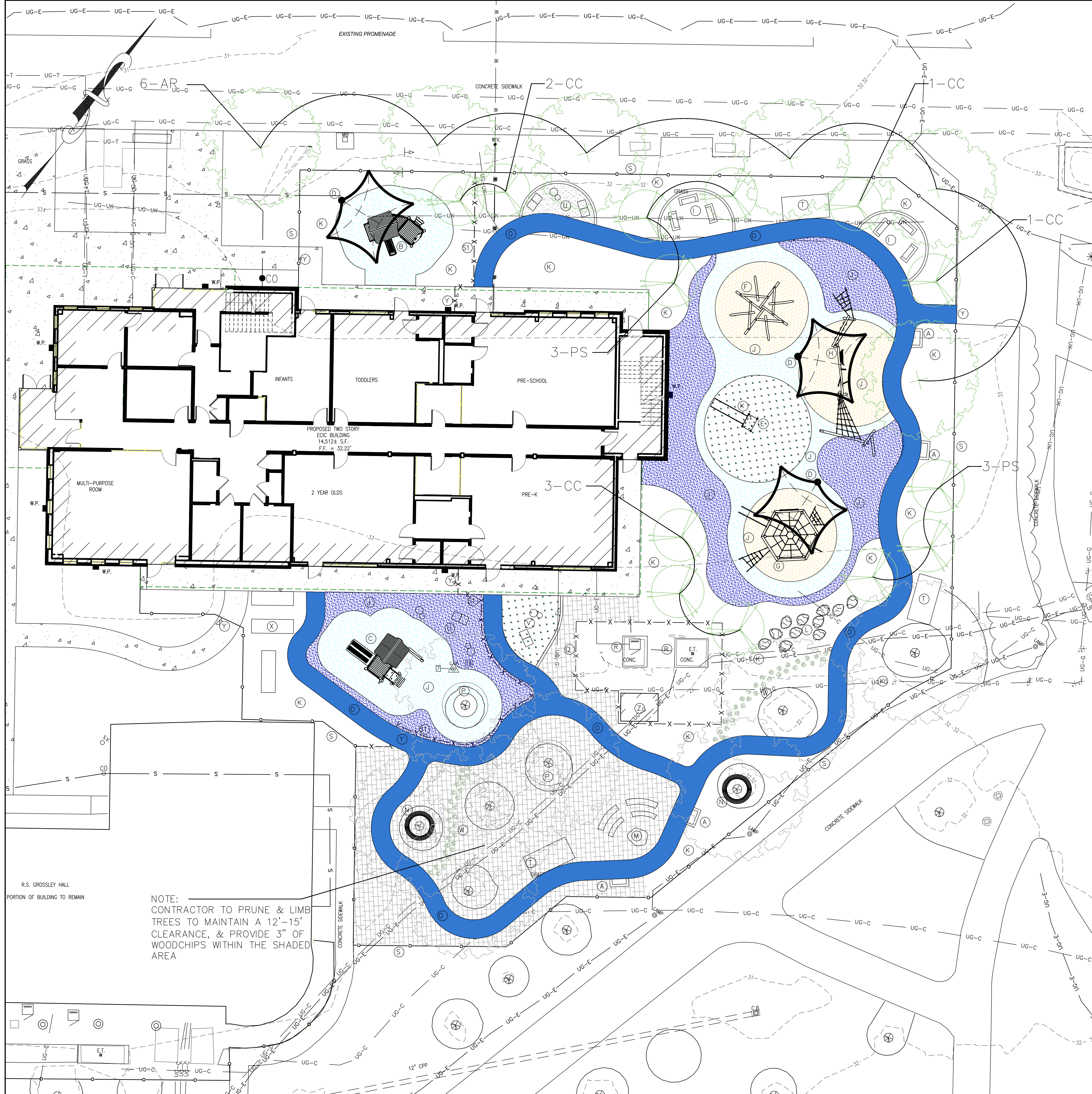
CITY OF DOVER
SUBMISSION
MAY 2023

DRAWN	CHK'D/DESIGNER
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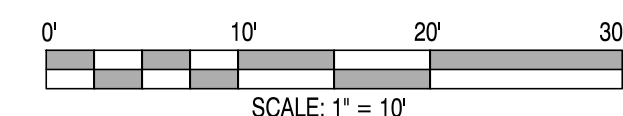
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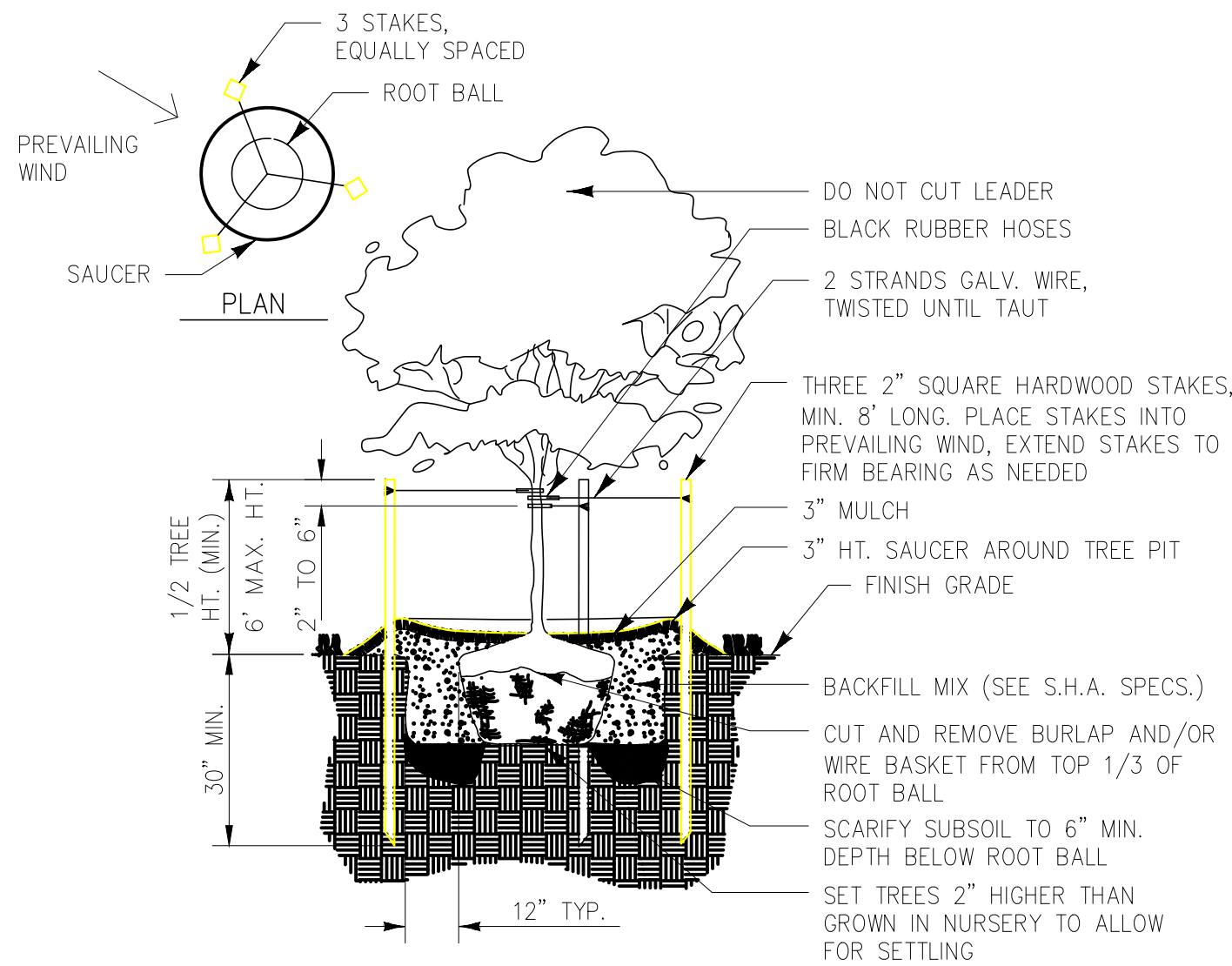
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AMENITIES LEGEND:

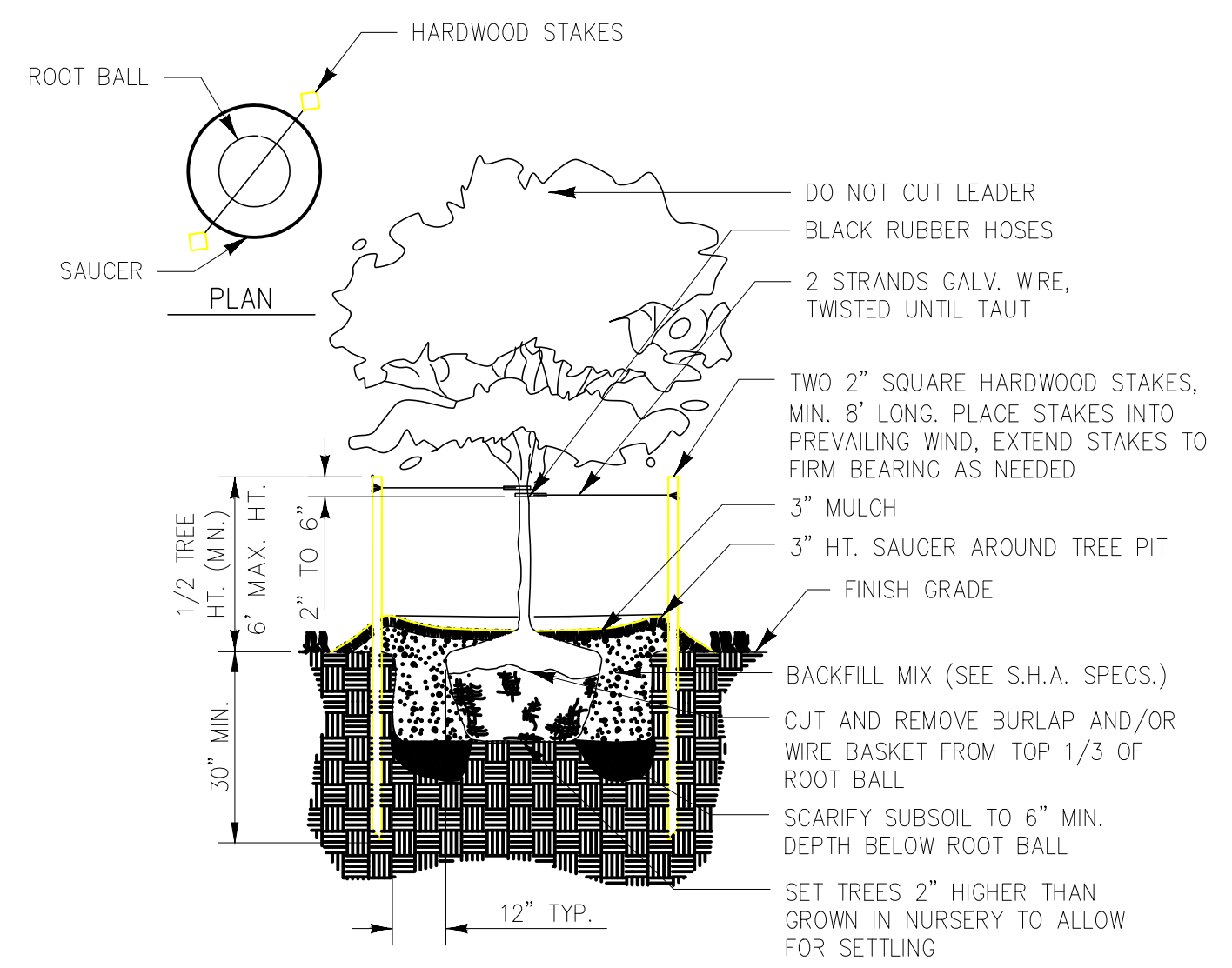
- A. BENCH
- B. LITTLE FOX SHOP PLAY STRUCTURE
- C. WIZARDS HIDEAWAY PLAY STRUCTURE
- D. SHADE STRUCTURE
- E. EMBANKMENT SLIDE
- F. CRAWLING PYRAMID
- G. 6-SIDED CLIMBER
- H. PARKOUR
- I. SEATING AREA
- J. RUBBERIZED SURFACE
- K. NATURAL TURF AREA
- L. NATURAL CLIMBING AREA W/BOULDERS
- M. OUTDOOR CLASSROOM
- N. TREE BENCH
- O. WALKING PATH
- P. TREE SWING
- Q. SCREEN FENCE
- R. EXISTING TRANSFORMERS
- S. PERIMETER FENCE
- SI. 4' CHAIN-LINK SEPARATION FENCE
- T. FITNESS STATION
- U. SENSORY PLAY AREA
- V. MUSIC PLAY AREA
- W. STEPPING-STONE PATH
- X. GARDEN / RAIN GARDEN
- Y. EMERGENCY EXIT GATE
- Z. STORAGE SHED 6'x8'





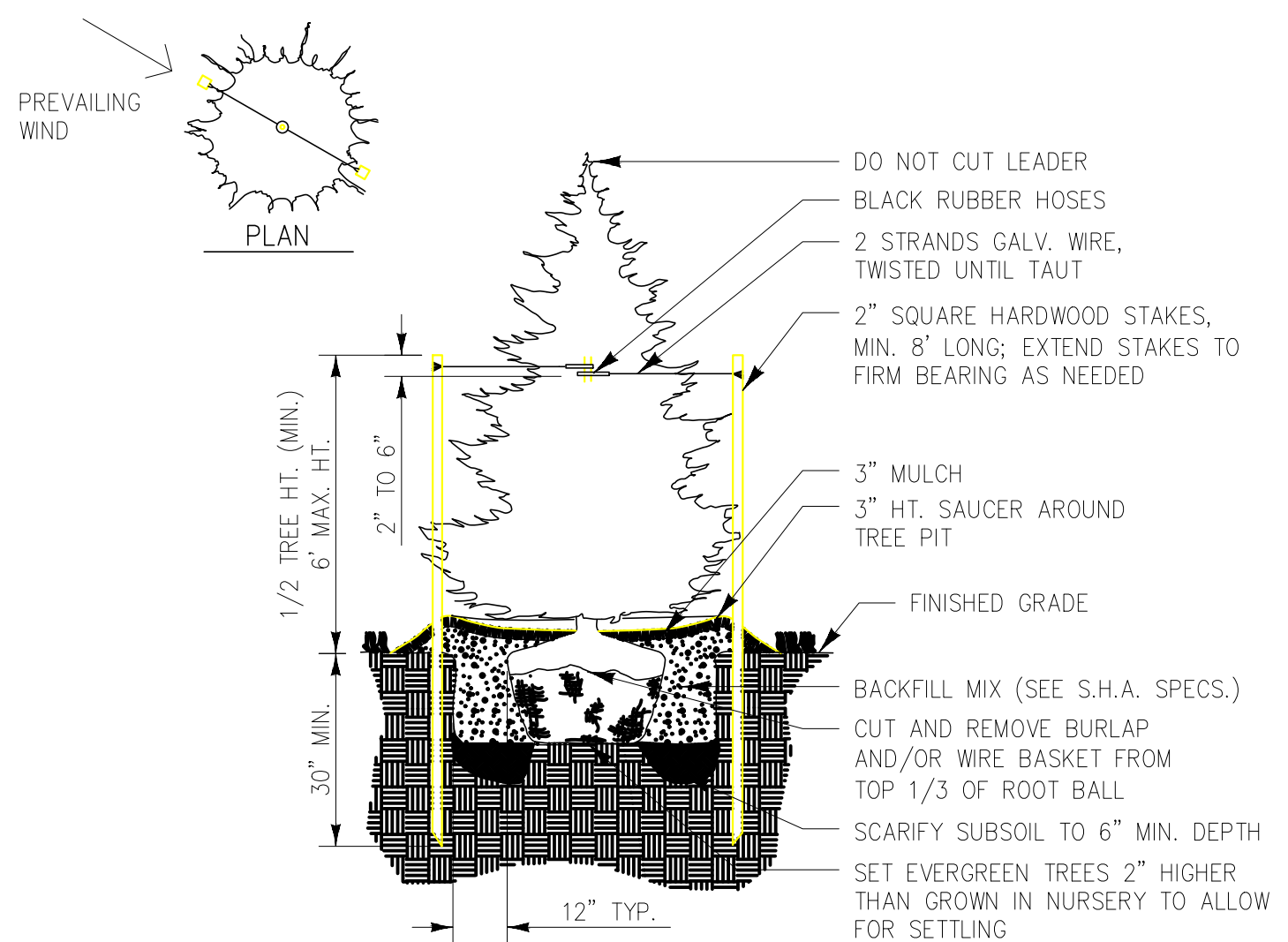
DECIDUOUS TREE PLANTING

Not To Scale



FLOWERING TREE PLANTING

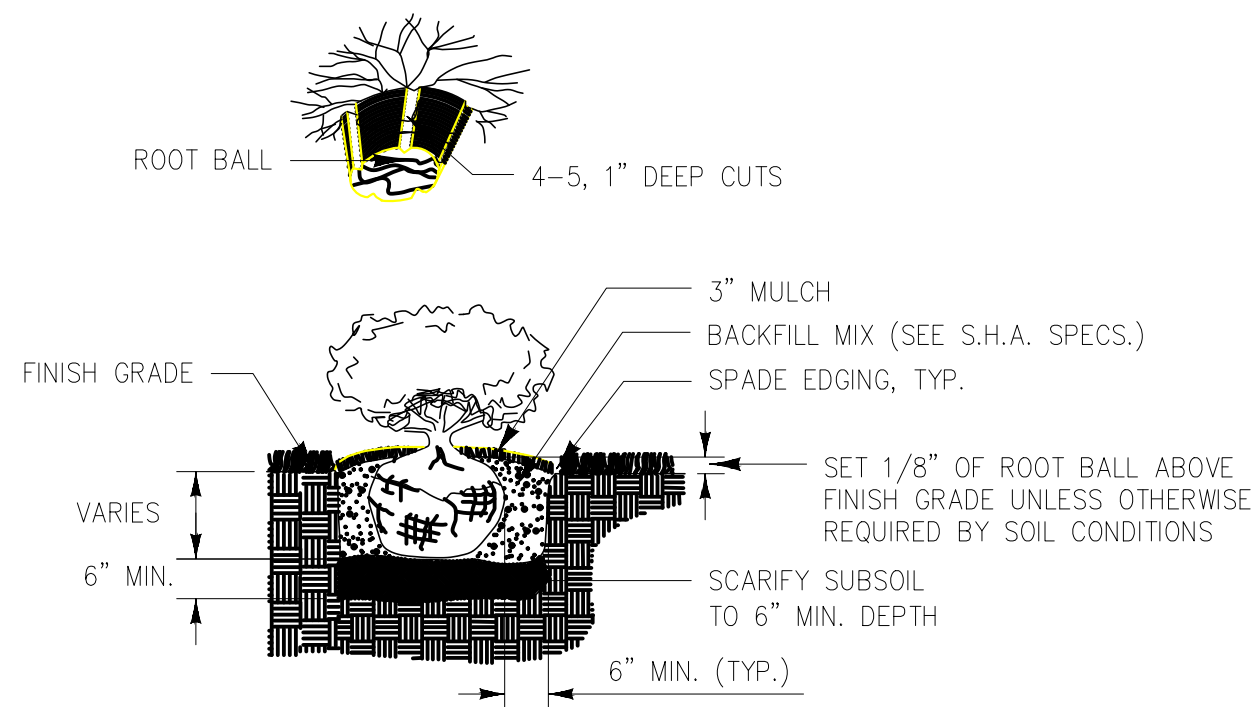
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EVERGREEN TREE PLANTING

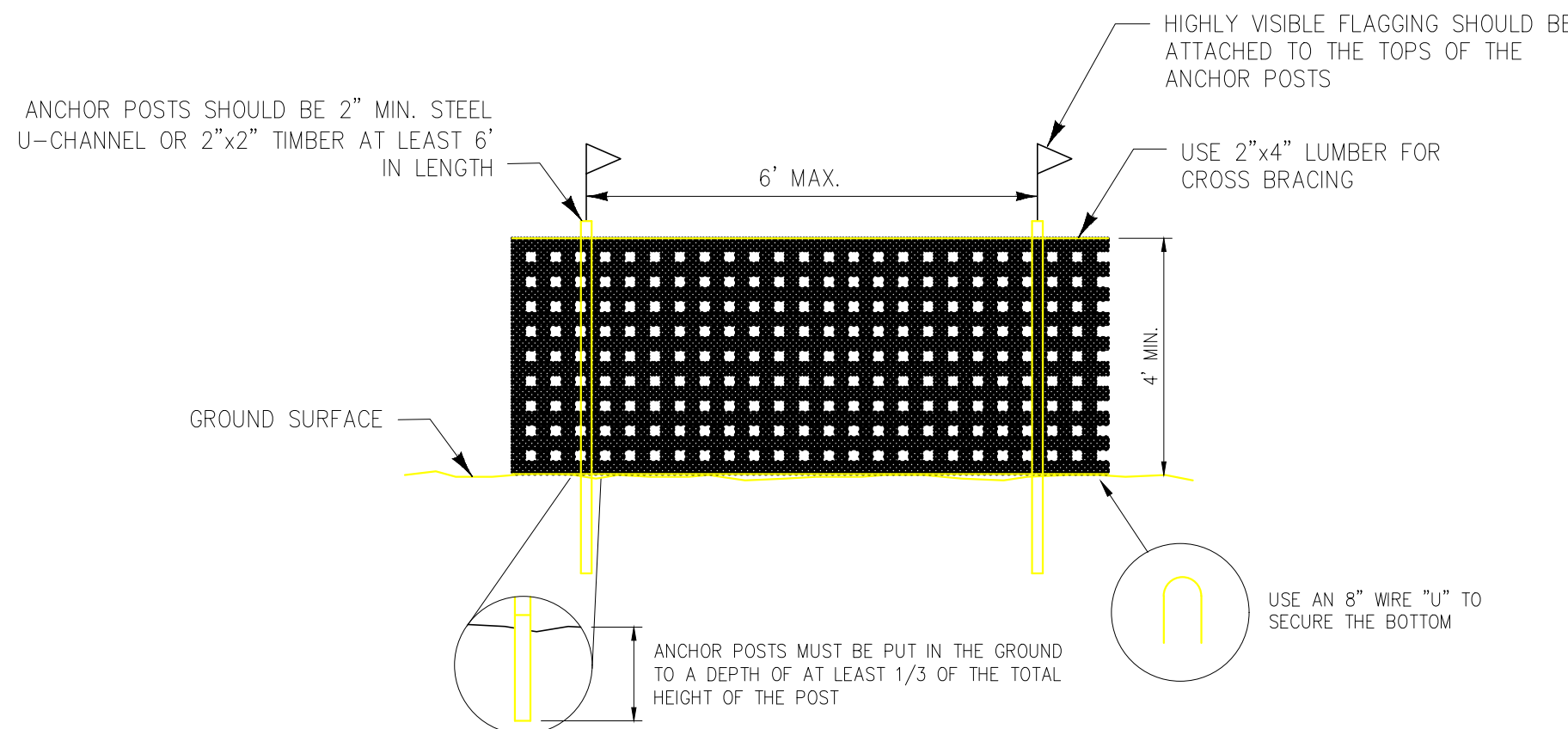
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- NOTES:
- FOR CONTAINER SHRUBS, COMPLETELY REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL BY USING A SHARP BLADE AND MAKING 4 TO 5 ONE INCH CUTS THE LENGTH OF THE ROOTBALL
 - FOR B&B SHRUBS, CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.



SHRUB PLANTING

Not To Scale



BLAZE ORANGE PLASTIC MESH FENCE

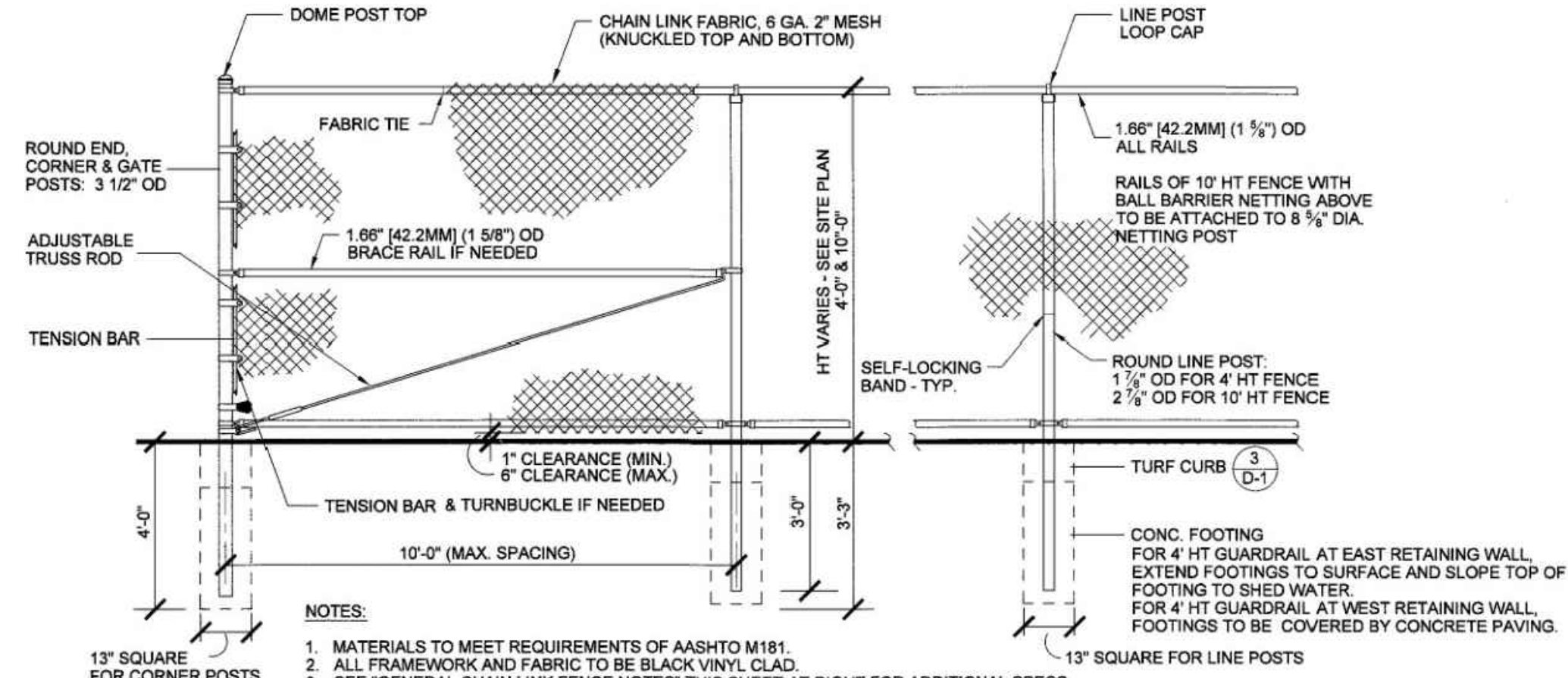
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PLANTING NOTES

- Plant material substitutions will not be accepted without approval of the Landscape Architect.
- All Shrubs and groundcover areas shall be planted in continuous prepared planting beds.
- All shrub beds shall be mulched with hardwood mulch as detailed and specified except where noted on plans.
- Maintain positive drainage out of planting beds at a minimum of two percent slope.
- Plant quantities are provided for the convenience of the contractor. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- All areas within contract limits disturbed during or prior to construction not designated to receive plantings and mulch shall be fine graded and seeded in accordance with planting and construction.
- Three (3) inches topsoil on all disturbed areas to be landscaped, seeded or sodded is required.
- The contractor shall notify Miss Utility, (800-257-7777) a minimum of three working days prior to planting and construction.
- All nursery stock shall conform to American Association of Nurserymen, Inc., standards as described in American Standard for Nursery Stock, current ANSI Z-60.1 specifications.
- All plants shall be identified in accordance with the latest Edition of Hortus Third, by "The Staff of the Hortorium".
- Landscape specifications shall conform to Landscape Guidelines for Maryland, Washington, D.C., and Virginia, latest edition. All nursery stock shall be planted in accordance with the procedures outlined in the guidelines.
- Contractor shall test pit prior to plant installation.

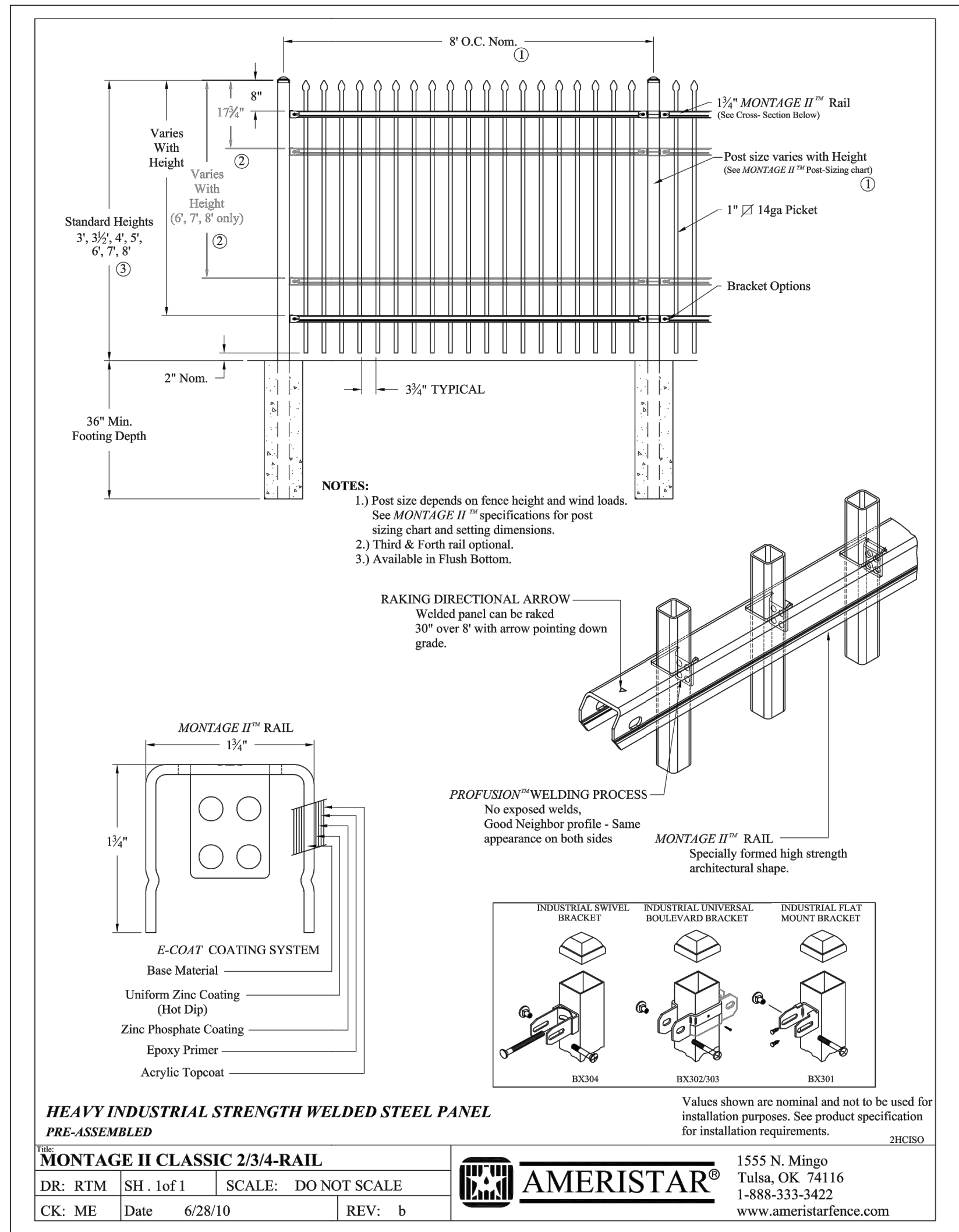
MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS

- Lawn areas shall be mowed to a height of 2 to 3 inches and not allowed to reach a height of 4 inches before mowing.
- All curbs and walks shall be edged as needed.
- All lawn areas adjacent to building faces or structures shall be trimmed.
- A slow release nitrogen balanced fertilizer with a 2-1-1 ratio shall be applied at a rate of 2 pounds of nitrogen per 1000 square feet in September, October, and February.
- Lime shall be applied at the rate determined by a soils report.
- It is recommended that lawn areas be treated in mid-March to early April with pre-emergent herbicide (Betasan or equal) applied at the manufacturer's rate.
- A post-emergent herbicide (Trimec or equal) is recommended to be sprayed on lawn areas in the late spring or early fall. Follow manufacturer's rates and recommendations.
- Insecticides and fungicides are recommended for insect and disease control.
- Reseed bare areas of lawn as necessary. Yearly aeration is recommended.
- All trash, litter, and debris shall be removed from lawn areas, parking lots, and shrub beds as needed.
- Mulch all shrub and groundcover beds yearly with 3 inches of shredded hardwood bark.
- Permit shrubs and trees to grow and enlarge to their design size. Consult project Landscape Architect for details.
- Prune trees in accordance with Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas.



CHAIN LINK FENCE

NOT TO SCALE



PLANT LIST

KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS
			SHADE TREES		
AR	6	Acer rubrum 'Sun Valley'	Red Maple	2 1/2" c.	B & B, specimen
			FLOWERING TREES		
CC	7	Cercis canadensis	Eastern Redbud	1 1/2" c.	B & B, multi-stem
PS	6	Prunus serotona	Black Cherry	1 1/2" c.	B & B, multi-stem

REVISIONS

APPENDUM

DESCRIPTION DATE

SEAL

NEW ECIC BUILDING CONSTRUCTION PLAN
FOR

T.P. NO. ED-05-057.00-01-21.00
DELAWARE STATE UNIVERSITY
866 N. DUPONT HIGHWAY, DOVER, DE 19901

CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

SHEET TITLE

CITY OF DOVER
SKETCH MEETING
MAY 18, 2023

DRAWN CHK'D/DESIGNER

CAG MJP

SCALE SHEET NO.

As Shown

PROJECT NO.

20232855.001

LS102

Little Fox' Shop

NRO418

(B)



Item no. NRO418-1021	
General Product Information	
Dimensions LxWxH	9'4"x14'9"x7'2"
Age group	2 - 5
Play capacity (users)	18
Color options	



Data is subject to change without prior notice.

The Little Fox' Shop has meandering, low floors and a dense, activity packed climb and slide offering with an elevated play house that will attract and excite toddlers again and again. Rich tactile features greatly increase play value and support emerging dramatic play in the toddlers. The scale of the Little Fox' Shop is perfectly shaped for toddlers. The leafy crawl-through panel encourages children to crawl and explore. The window with curtain invites

social cooperation between inside and outside, supporting turn-taking and cooperation skills and not least inviting peek-a-boo games that support the understanding of object permanence: that things don't cease to exist when they are out of sight. These tactile activities stimulate cross-modal perception, important for improving reading skills and support cross-coordination awareness which is key to physical and cognitive development at

this age. The house with its many details and corners supports emerging dramatic play which stimulates language skills. Thrilling sliding is invited with a friendly loop between access platform and slide mouth. The inclined climbing wall on the other side adds varied access and supports cross-coordination which is key to physical as well as cognitive development at this age.

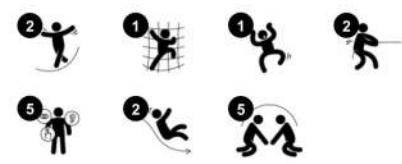
The Wizard's Hideaway

NRO409

(C)



Item no. NRO409-0821	
General Product Information	
Dimensions LxWxH	10'4"x15'11"x11'9"
Age group	2 - 5
Play capacity (users)	11
Color options	



Data is subject to change without prior notice.

The magical Wizard's Hideaway with an elevated house and blue roof invites dramatic play as few other structures can do. The benches and table inside stimulate social interaction and make longer stays desirable. A table on the side of the house invites meeting and provides a nice seat for care givers. The stair up to elevated level and the double slide

benefit motor skills such as cross coordination and spatial awareness. These are both fundamental for building up an understanding of the body in time and space, a competence important for managing obstacles and traffic safely. The stairway features a broad transfer platform and good handholds to support children of all abilities in accessing. All in all,

hours of magic play together.

Embankment Slide, wide

PCM110221

(E)



Item no. PCM110221-0902	
General Product Information	
Dimensions LxWxH	13'3"x4'12"x4'7"
Age group	5 - 12
Play capacity (users)	3
Color options	



Data is subject to change without prior notice.

Sliding is a favourite playground activity that attracts children to being active and playful in a thrilling way. An embankment slide is especially exciting and accessible with the entry at the ground level, and a fast sliding path that follows the form of the land. The wide slide increases capacity and social play. When children slide they train their core muscles, sitting upright

while sliding down. This stimulates stability, important for avoiding back and neck pains – a growing problem in children due to sedentary lifestyles. Sliding additionally trains the child's sense of balance and space awareness understanding. These skills are important in navigating the world safely and are also the basis of all motor skills. Developing these skills

supports physical confidence in children. Children are especially keen to try the embankment slide over and over again therefore increasing their physical activity.

Crawling Pyramid

NRO826

(F)



Item no. NRO826-0801	
General Product Information	
Dimensions LxWxH	13'1"x13'3"x5'11"
Age group	5 - 12
Play capacity (users)	6
Color options	



Data is subject to change without prior notice.

The Crawling Pyramid is a hit with children. The hap-hazardly placed beams is a magnet for their eagerness to climb and explore the unit. The inclined and horizontal beams invite a number of classic playground games, all centered around balancing such as The Ground is Lava or tag. With its inclined layout, the Crawling Pyramid constantly challenges the

sense of balance in children. The sense of balance is fundamental for all other senses. It makes it possible to run, to sit still, concentrate and learn, but it also gives children the confidence that they can manage the world and adjust, when they are at the edge of losing balance. The many horizontal beams of the Crawling Pyramid invites a break and

socializing. This is important for children's social-emotional skills and forming friendships.

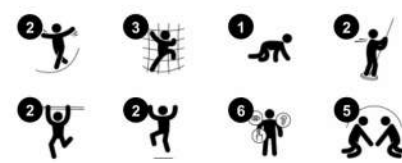
Six-sided climbing structure

NRO816

(G)



Item no. NRO816-1003	
General Product Information	
Dimensions LxWxH	19'3"x14'2"x10'8"
Age group	5 - 12
Play capacity (users)	20
Color options	



Data is subject to change without prior notice.

The six-sided climbing structure with its rich variety of climbing and crawling is a huge attraction for children. The many different ways of climbing and sliding must be tried out, which make the children stay longer and want to come back. The inclined climbing nets make challenging climbs to the top due to their non-horizontal steps. The climbing wall offers a

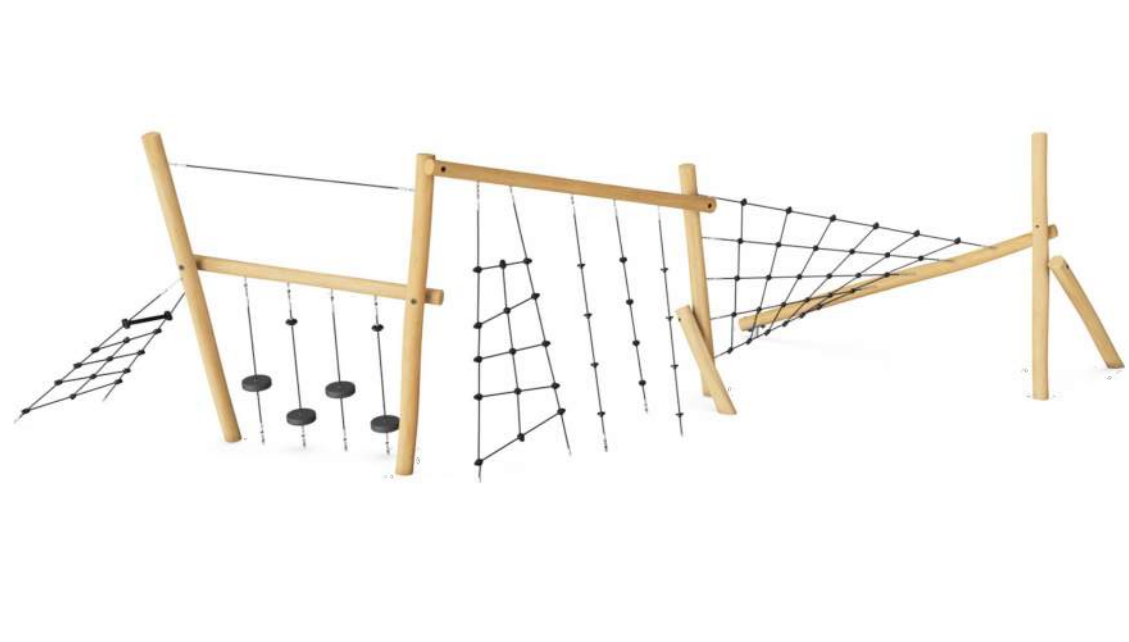
vertical climb with and entrance to the top horizontal net either over the top or through the hole. The varied body positions demanded to manage the climb train the child's proprioception, balance coordination and spatial awareness. These motor skills aid challenging climbs to the top due to their non-horizontal steps. The climbing wall offers a

taking activities that tickle the stomach and train spatial awareness, necessary for judging distances. The structure is a great active meeting point.

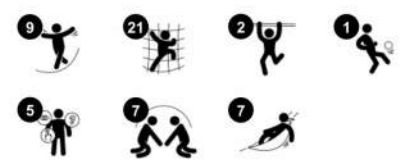
Parkour 4

NRO854

(H)



Item no. NRO854-1001	
General Product Information	
Dimensions LxWxH	15'3"x33'9"x9'11"
Age group	5 - 12
Play capacity (users)	12
Color options	



Data is subject to change without prior notice.

The Parkour 4 is a hugely appealing play piece. Exactly what 5-12 year olds want: a trim trail that's fun. The variation in climbing, crawling and balancing activities will make children come back again and again. The many inclined, twisted and vertical nets and the different mesh directions make great play challenges. Climbing or crawling up, down and

through the big meshes greatly stimulates coordination and proprioception. Both are skills necessary to navigate the world confidently and to achieve physical confidence. The lovely rubber seating points and the inclined beams are great for meeting and exchanging. Their bouncy or inclined character make them a constant balance and muscle trainer, even

when seated. When climbing through the Parkour 4 children train their cooperation and turn-taking skills. These skills are difficult to teach, but they are easily learned in play.



Stretch & Go Arm & Shoulder Circles

Product: ZZXX0489

Ages 2-12

(T)

Product Description

Use the handles on the disks to turn them

Rotate in or outwards to work the muscles in your shoulders and upper back

Product Details

Size: 3' 6" x 3' 9" x 4' 9" H	Capacity: 2
Color: Available in any Playworld color(s)	Weight: 213 lb
Install Hours: 2	

Complies With:

EN1176

Prices are approximate. Prices shown in U.S. Dollars. Prices do not include freight, custom fees, surfacing or installation. Please contact your authorized Playworld Representative for pricing.

Pictured components and their associated prices are not reflective of total cost of configuration



Stretch & Go Shoulder Slide

Product: ZZXX0492

Ages 2-12

(T)

Product Description

Step into the "U", hold a slider in each hand and slide from sides to front

Range of motion depends on where you stand

Turn around to work the back muscles

Product Details

Size: 4' 11" x 4' 10" x 4' 8" H	Capacity: 1
Color: Available in any Playworld color(s)	Weight: 71 lb
Install Hours: 3	

Complies With:

EN1176

Prices are approximate. Prices shown in U.S. Dollars. Prices do not include freight, custom fees, surfacing or installation. Please contact your authorized Playworld Representative for pricing.

Pictured components and their associated prices are not reflective of total cost of configuration



Stretch & Go The Twister

Product: ZZXX0487

Ages 2-12

(T)

Product Description

Step up onto the disk, hold onto the bar, and twist your torso from side to side

Stretches the lower back and your oblique muscles

Product Details

Size: 1' 10" x 4' 6" x 6' 1" H	Capacity: 2
Color: Available in any Playworld color(s)	Weight: 91 lb
Install Hours: 3	

Complies With:

EN1176

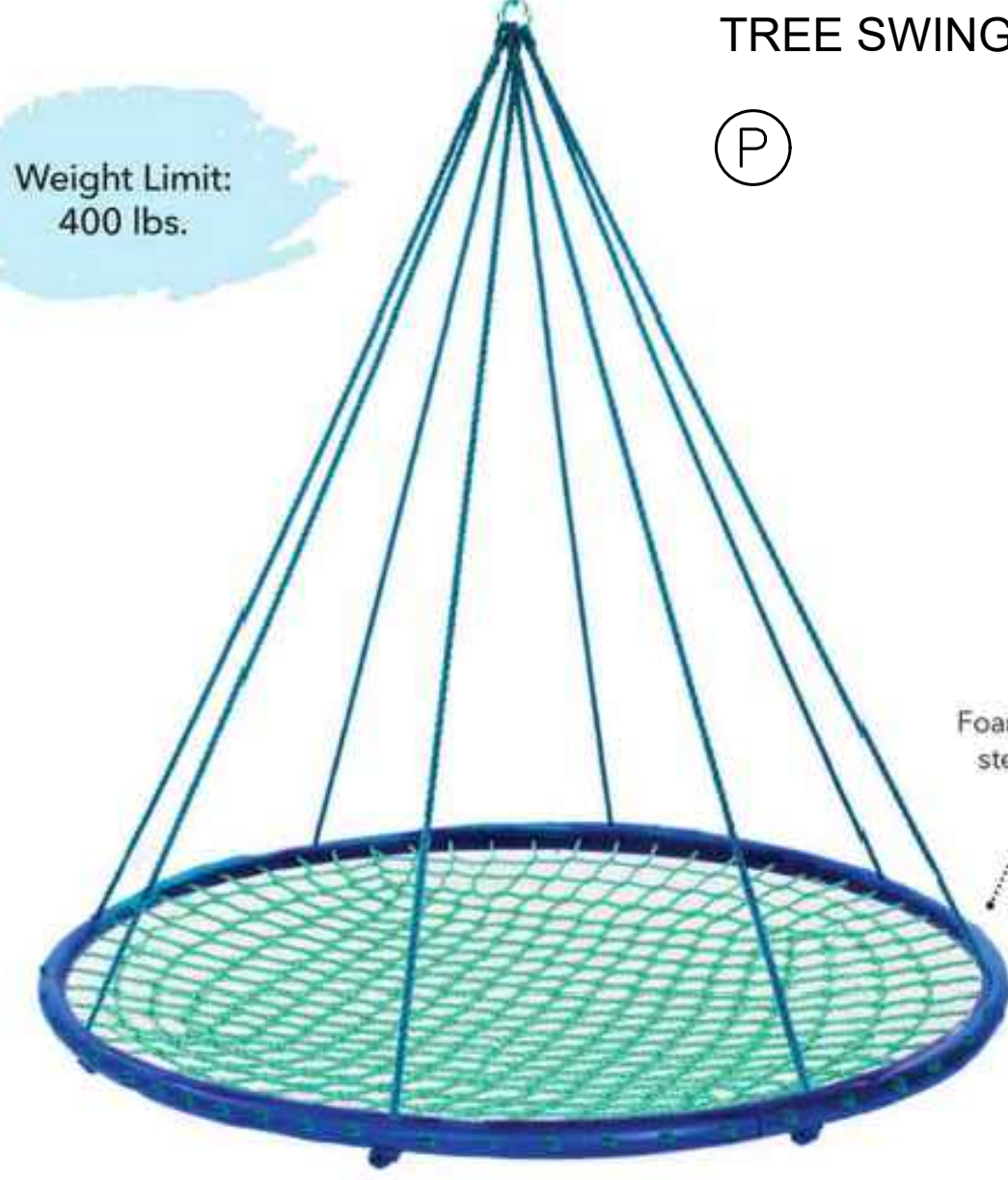
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TREE SWING

(P)

Weight Limit:
400 lbs.



Foam-padded steel frame

5' diam.

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DELAWARE STATE UNIVERSITY

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CITY OF DOVER, EAST DOVER HUNDRED, STATE OF DELAWARE

PROJECT

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PLAY EQUIPMENT DETAILS

CITY OF DOVER
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MAY 18, 2023

DRAWN

CHK'D/DESIGNER

CAG

MJP

SCALE

SHEET NO.

As Shown

LS103

PROJECT NO.

20232855.001

