No. _____

EAST SIDE AUTO TRANSPORT AUTOMOTIVE STORAGE FACILITY

RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

APRIL 2021

PERMIT DRAWINGS

INLAND WETLANDS AND WATERCOURSES COMMISSION

AND

PLANNING AND ZONING COMMISSION SUBMISSION

PREPARED FOR:

SIX RESEARCH, LLC

PREPARED BY:

Winterbourne Land Services

Rosalind C. Page
Professional Land Surveyor
604 Center Street
Wallingford, CT 06492
203-284-0392
FAX 203-284-9938

EXPIRATION DATE PER SECTION 8-3(i) OF THE CONNECTICUT GENERAL STATUTES _____

APPROVED BY THE TOWN OF WALLINGFORD PLANNING AND ZONING COMMISSION

CHAIRMAN DATE

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

ZONING STANDARDS SCHEDULE

INDUSTRIAL EXPANSION (IX) DISTRICT

SECTION	STANDARD	REQUIRED	EXISTING	PROVIDED
5.1.C	MINIMUM LOT AREA	217,800 SF	139,633 SF	139,633 SF
5.1.C	MINIMUM FRONTAGE	250 FT	250.6 FT	250.6 FT
5.1.C	MINIMUM YARDS			
5.1.C	FRONT (RESEARCH PARKWAY) (2)	60 FT	-	374.1 FT
5.1.C	FRONT (THORPE AVENUE) (2)	60 FT	-	123.9 FT
5.1.C	SIDE	30 FT	-	31.0 FT
5.1.C	MINIMUM OPEN SPACE	50%	-	55.8%
5.1.C	MAXIMUM COVERAGE	25%	-	4.3%
5.1.C	MAXIMUM BUILDING HEIGHT (3)	30 FT	-	24 FT

PARKING REQUIREMENTS:

STORAGE USE: 1 SPACE FOR EACH 2 EMPLOYEES AND NOT LESS THAN 1 SPACE FOR EACH 1,500 SQUARE FEET OF GROSS FLOOR AREA

TRUCK LOADING SPACE: 1 SPACE FOR EACH 4,000-24,999 SQUARE FEET OF GROSS FLOOR AREA

PARKING AND LOADING SPACES PROVIDED:

STORAGE USE: 6,000 SQUARE FEET OF GROSS FLOOR AREA = 4 SPACES (12 SPACES PROVIDED)

STORAGE USE: 12 EMPLOYEES = 6 SPACES (12 SPACES PROVIDED)

CAR CARRIER SPACES: 19 SPACES PROVIDED

TRUCK LOADING SPACE: 6,000 SQUARE FEET OF GROSS FLOOR AREA = 1 SPACE PROVIDED

NOTES:

1. THE PARCEL IS LOCATED WITHIN THE WATERSHED PROTECTION (WPD) OVERLAY ZONING DISTRICT.
2. MINIMUM FRONT YARD DISTANCES ARE FROM THE POSITION OF THE STREET LINES FOR RESEARCH PARKWAY AND THORPE AVENUE ESTABLISHED BY THE SURVEYS CONDUCTED BY WINTERBOURNE LAND SERVICES.
3. MAXIMUM BUILDING HEIGHT MAY BE INCREASED BY ONE (1) FOOT FOR EACH FIVE (5) FEET OF INCREASE IN THE MINIMUM FRONT, SIDE, AND REAR YARDS.

OWNER

SIX RESEARCH, LLC
14 NORTH BRANFORD ROAD
WALLINGFORD, CONNECTICUT 06492
203-627-2299

APPLICANT

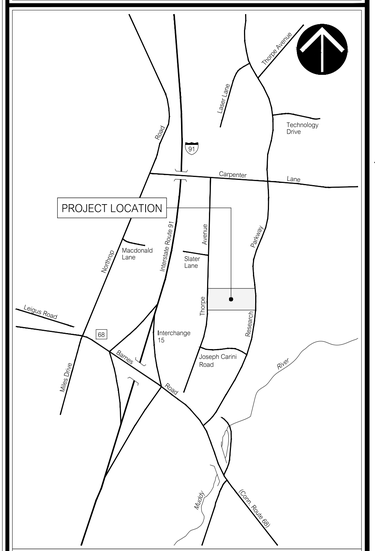
SIX RESEARCH, LLC
14 NORTH BRANFORD ROAD
WALLINGFORD, CONNECTICUT 06492
203-627-2299

REVISED:
4 6-2-21 MISCELLANEOUS
3 5-24-21 MISCELLANEOUS
2 5-4-21 MISCELLANEOUS
1 4-28-21 MISCELLANEOUS

SHEET No.: C0.1

SCHEDULE OF DRAWINGS

SHEET No.	TITLE
C0.1	TITLE SHEET
C0.2	GENERAL NOTES, ABBREVIATIONS AND LEGEND
C1.1	PROPERTY/BOUNDARY/TOPOGRAPHIC SURVEY
C2.1	GENERAL PLAN
C2.2	EROSION AND SEDIMENT CONTROL NOTES
C3.1	DETAILS
C3.2	DETAILS
C3.3	DETAILS
C3.4	DETAILS
L1.1	LANDSCAPE PLAN



LOCATION PLAN
SCALE: 1"=2000'

2000 4000 0 2000 4000
(IN FEET)

STATE OF CONNECTICUT
MICHAEL J. OTT
CT No. 70082
LICENSED
PROFESSIONAL ENGINEER

MICHAEL J. OTT, P.E., L.S. DATE
CT REGISTRATION No. 70082

ABBREVIATIONS

Ac.	ACRE
ACP	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
A.O.B.E.	AS ORDERED BY ENGINEER
B&B	BALLED & BURLAPPED
BIT.	BITUMINOUS
BM	BENCHMARK
B.O.F.	BOTTOM OF FOOTING
CATV	CABLE TELEVISION
CB	CATCH BASIN
C.C.	CENTER TO CENTER
C.C.S.	CONNECTICUT COORDINATE SYSTEM
CFS	CUBIC FEET PER SECOND
CHD	CONNECTICUT HIGHWAY DEPARTMENT
CIP	CAST IRON PIPE
CJ	CONSTRUCTION OR CONTRACTION JOINT
CL	CLEAR
C.L.&P.	CONNECTICUT LIGHT AND POWER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
CPEP	CORRUGATED POLYETHYLENE PIPE
C.Y.	CUBIC YARD
DBL.	DOUBLE
DH	DRILL HOLE
DI	DUCTILE IRON
DIA.	DIAMETER
DIP	DUCTILE IRON PIPE
EA.	EACH
EJ	EXPANSION JOINT
EL.	ELEVATION
E.O.B.	END OF BORING
EOP	EDGE OF PAVEMENT
EQ.	EQUAL
EX.	EXISTING
f'_c	MINIMUM COMPRESSIVE STRENGTH
f_y	YIELD STRENGTH OF STEEL REINFORCEMENT
F.F.	FINISH FLOOR
FM	FORCE MAIN
FND.	FOUND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET OR FOOT
GA.	GAUGE
GAL	GALLON
H	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HTL	HIGH TIDE LINE
I.D.	INSIDE DIAMETER
INV.	INVERT
IP	IRON PIN/PIPE
KSF	KIPS PER SQUARE FOOT
L	LENGTH
LB	POUND
L.F.	LINEAR FEET
L.S.	LUMP SUM
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MON	MONUMENT
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
PE	PLAIN END OR POLYETHYLENE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCCE	REINFORCED CONCRETE CULVERT END
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
R.R.	RAILROAD
RT	RIGHT
R/W	RETAINING WALL
SAN	SANITARY
SCG	SOUTHERN CONNECTICUT GAS
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
S.F.	SQUARE FOOT
SNET	SOUTHERN NEW ENGLAND TELEPHONE
S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
S.Y.	SQUARE YARD
T&B	TOP AND BOTTOM
T.F.	TOP OF FRAME
T.G.	TOP OF GRATE
T.O.F.	TOP OF FOOTING
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.I.	UNITED ILLUMINATING
V	VERTICAL
VCP	VITRIFIED CLAY PIPE
WF	WETLAND FLAG

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
BASELINE		1+00
ELEVATION CONTOUR		100
ELEVATION	x 100.0	+ 100.0
EDGE OF PAVEMENT		
CURBING		
GUIDE RAIL		
TREE LINE		
MAILBOX		
SIGN		
LIGHT POST		
UTILITY POLE (W/GUY)		
UTILITY POLE (W/LIGHT)		
HYDRANT		
CHAIN LINK FENCE		
WIRE FENCE	x x x x x	
WOOD FENCE	// // // // //	
STONE WALL		
HEDGEROW		
WATERCOURSE		
INLAND WETLAND BOUNDARY		
TIDAL WETLAND BOUNDARY		
COMMUNICATIONS	C	C
ELECTRIC	E	E
GAS MAIN/SERVICE	G	G
WATER MAIN/SERVICE	W	W
OVERHEAD UTILITY WIRE(S)		
SANITARY SEWER ≤ 12" DIAMETER		
SANITARY SEWER > 12" DIAMETER		
STORM SEWER ≤ 12" DIAMETER		
STORM SEWER > 12" DIAMETER		
CATCH BASIN		
MANHOLE		
SURVEY STATION		
TEST PIT		
BORING		
PROBE		
ASSESSOR'S MAP NO./LOT NO.	49–50	
SOIL TYPE	87B	
SOIL TYPE BOUNDARY		
FLOODPLAIN BOUNDARY		
CLEARING LIMIT LINE		
LIMIT OF CUT		C
LIMIT OF FILL		F
PAVEMENT REMOVAL LINE		
SEDIMENTATION CONTROL BARRIER		
SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE		
DECIDUOUS TREE		
CONIFEROUS TREE		
SHRUB		
TREE TO BE REMOVED		
MUTCD SIGN NO.		W20-1 (80-9602) — CONNDOT SIGN NO.

SOIL TYPE LEGEND

REFERENCE:

NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

MAP UNIT SYMBOL	MAP UNIT DESCRIPTION
63B	CHESHIRE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES

GENERAL NOTES:

1. PROPERTY BOUNDARY, STREET LINE, AND PLANIMETRIC AND TOPOGRAPHIC INFORMATION DEPICTED HEREIN HAS BEEN REPRODUCED FROM THE FOLLOWING MAPS:

   (A) "PROPERTY/BOUNDARY/TOPOGRAPHIC SURVEY MAP DEPICTING LAND N/F SIX RESEARCH, LLC #6 RESEARCH PARKWAY, WALLINGFORD, CONNECTICUT", SHEET 1 OF 1, SCALE: 1"=30', DATE: 8-6-18, PREPARED BY: WINTERBOURNE LAND SERVICES.

   (B) "PROPERTY/BOUNDARY/TOPOGRAPHIC SURVEY MAP DEPICTING EXISTING CONDITIONS LAND N/F SIX RESEARCH, LLC #4A RESEARCH PARKWAY, WALLINGFORD, CONNECTICUT", SHEET 1 OF 1, SCALE: 1"=30', DATE: 3-12-21, PREPARED BY: WINTERBOURNE LAND SERVICES.

2. THE PROJECT COORDINATE SYSTEM IS REFERENCED TO THE AZIMUTH SYSTEM OF THE REFERENCE MAPS NOTED.

3. ELEVATIONS ARE REFERENCED TO THE TOWN OF WALLINGFORD WATER AND SEWER DIVISION VERTICAL DATUM.

4. THE PARCEL IS DEPICTED ON ASSESSORS MAP 68 AS LOT 3.

5. PARCEL AREA = 139,633 SF = 3.2055 AC.

6. THE PARCEL IS LOCATED WITHIN AN INDUSTRIAL EXPANSION (IX) ZONING DISTRICT AND THE WATERSHED PROTECTION (WPD) OVERLAY ZONING DISTRICT.

7. THE PARCEL IS LOCATED WITHIN FLOOD ZONE X. REFERENCE: FEMA NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP MIDDLESEX COUNTY, CONNECTICUT PANEL 342 OF 450, MAP NUMBER 09007C0342J, EFFECTIVE DATE: 8-28-08, MAP REVISED: 2-6-13.

8. SOIL TYPES AND/OR SOIL TYPE BOUNDARIES DEPICTED HEREIN HAVE BEEN REPRODUCED FROM NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

9. UNDERGROUND UTILITIES, STRUCTURES AND OTHER FACILITIES DEPICTED HEREIN HAVE BEEN COMPILED FROM RECORD MAPPING AND FIELD LOCATIONS OF ABOVE GROUND FACILITIES AND MARKOUTS. ALL UNDERGROUND FACILITY LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE ONLY AND ALL FACILITIES MAY NOT BE SHOWN.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND FOR THE MAINTENANCE AND PROTECTION THEREOF. CONTACT THE CONNECTICUT "CALL BEFORE YOU DIG" CLEARANCE CENTER (1-800-922-4455) AT LEAST TWO WORKING DAYS PRIOR TO THE START OF WORK TO ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ENGINEER IN THE EVENT THAT A UTILITY IS LOCATED DURING THE PROGRESS OF THE WORK THAT IS NOT INDICATED ON OR IS NOT IN ACCORDANCE WITH THE DRAWINGS.

    UTILITY COMPANY CONTACTS:

CABLE TELEVISION	- COMCAST OF CONNECTICUT, INC.	(860) 613-3070
COMMUNICATIONS	- FRONTIER COMMUNICATIONS OF CONNECTICUT	(203) 266-4372
COMMUNICATIONS	- LIGHT TOWER FIBER NETWORKS I, LLC	(203) 649-3904
ELECTRIC	- TOWN OF WALLINGFORD ELECTRIC DIVISION	(203) 294-2367
GAS	- YANKEE GAS SERVICES COMPANY	(508) 305-7027
WATER	- TOWN OF WALLINGFORD WATER AND SEWER DIVISION	(203) 949-2660
SEWER	- TOWN OF WALLINGFORD WATER AND SEWER DIVISION	(203) 949-2660

11. IN GENERAL, EXISTING CONDITIONS AND FEATURES ARE DEPICTED IN SCREENED GRAPHICS AND TITLECASE LETTERING AND PROPOSED WORK IS DEPICTED IN BOLD GRAPHICS AND UPPERCASE LETTERING.

12. THE STANDARD SPECIFICATIONS ARE THE DIVISION II CONSTRUCTION DETAILS AND DIVISION III MATERIALS SECTION OF THE "STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818", 2020, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO.

13. PRIOR TO THE START OF WORK, THOROUGHLY REVIEW THE DRAWINGS, THE SITE OF THE WORK AND ALL EXISTING CONDITIONS AND FEATURES. NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS AND FEATURES IN THE FIELD.

14. ADHERE TO THE REGULATIONS AND ORDINANCES OF THE TOWN OF WALLINGFORD, ALL APPLICABLE STATE AND FEDERAL REGULATORY AUTHORITIES, AND THE PROVISIONS OF ALL APPROVALS AND OR PERMITS ISSUED FOR THE PROJECT.

15. PROVIDE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER. THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

16. MATERIAL AND EQUIPMENT STORAGE AREA LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

17. VEHICLE AND EQUIPMENT FUELING AND MAINTENANCE OPERATIONS SHALL BE PERFORMED ONLY IN AREAS APPROVED BY THE ENGINEER.

18. IN THE EVENT OF A CONTAMINANT RELEASE, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION EMERGENCY RESPONSE AND SPILL PREVENTION DIVISION (860-424-3338 OR 866-337-7745) AND THE TOWN OF WALLINGFORD FIRE MARSHALS OFFICE (203-294-2766).

19. COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANIES.

20. WORK WITHIN THE RIGHT-OF-WAY OF RESEARCH PARKWAY WILL REQUIRE AN ENCROACHMENT PERMIT FROM THE TOWN OF WALLINGFORD DEPARTMENT OF PUBLIC WORKS.

21. BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC WITHIN AND ADJACENT TO WORK AREAS. MAINTAIN VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS TO PROPERTIES WITHIN AND ADJOINING WORK AREAS. MAINTAIN ACCESS TO DRIVEWAYS. COORDINATE REQUIRED TEMPORARY DRIVEWAY CLOSURES WITH BUILDING OCCUPANTS.

22. BE RESPONSIBLE FOR THE CONTROL OF DUST RESULTING FROM CONSTRUCTION OPERATIONS.

23. PROTECT ALL EXISTING CONDITIONS AND FEATURES WHERE NEW CONSTRUCTION IS NOT SHOWN ON THE DRAWINGS.

24. PROTECT STREET LINE MONUMENTS AND PRIVATE BOUNDARY MARKERS. RESET STREET LINE MONUMENTS AND PRIVATE BOUNDARY MARKERS DISTURBED BY CONSTRUCTION OPERATIONS.

25. PRIOR TO THE START OF TREE AND VEGETATION REMOVAL WORK, SCHEDULE A FIELD MEETING WITH THE ENGINEER TO REVIEW SPECIFIC TREES AND VEGETATION TO BE REMOVED AND TREES AND VEGETATION TO BE PROTECTED.

26. SAWCUT PAVEMENTS AT THE LINES SHOWN ON THE DRAWINGS. WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO BE PLACED AGAINST EXISTING PAVEMENT, CLEAN THE FACE OF EXISTING PAVEMENT AND APPLY LIQUID BITUMEN. MATCH EXISTING ADJACENT PAVEMENT SURFACE ELEVATIONS WITH NEW PAVEMENT.

27. ADJUST MANHOLE FRAMES, HANDHOLES, AND VALVE BOXES TO MATCH FINISHED GROUND SURFACE AND PAVEMENTS ELEVATIONS.

28. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

29. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. TEMPORARY AND PERMANENT SIGN IDENTIFICATION NUMBERS SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SIGN CATALOG, LATEST REVISION.

30. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A 6" DEPTH OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.

REVISIONS:

NO.	DATE	DESCRIPTION

REVISIONS

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

SEAL:

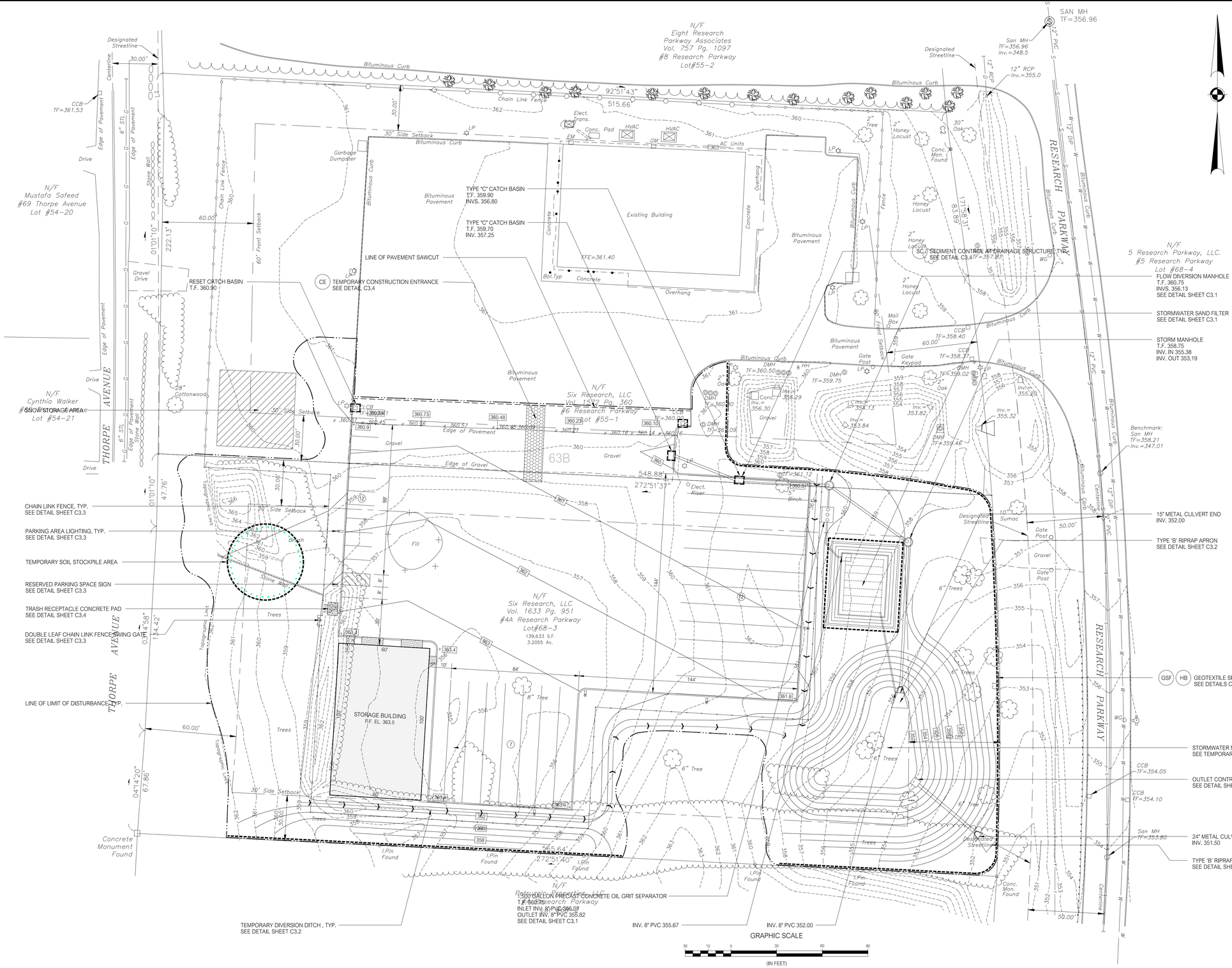
PREPARED BY:

Summer Hill

Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

DATE: 4-1-21	SHEET: GENERAL NOTES, ABBREVIATIONS AND LEGEND	SHEET NO.: C0.2
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12



REVISIONS:		
NO.	DATE	DESCRIPTION
REVISIONS		

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

DATE: 4-1-21	SHEET: GENERAL PLAN	SHEET NO.: C2.1
SCALE: 1"=30'		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12

A. PROJECT NARRATIVE

THE PROJECT CONSISTS OF THE CONSTRUCTION OF THE EXPANSION OF AN EXISTING AUTOMOTIVE STORAGE FACILITY. THE PLANNED IMPROVEMENTS CONSIST OF A 6,000 SQUARE FOOT ONE-STORY AUTOMOTIVE STORAGE BUILDING AND ASSOCIATED HARDSTAND, PARKING AREA, UTILITY SERVICES, STORMWATER MANAGEMENT FACILITIES, LIGHTING, FENCING, SIGNAGE, AND LANDSCAPING.

THE BUILDING WILL BE SERVED BY ELECTRIC AND COMMUNICATION UTILITIES LOCATED WITHIN THE RESEARCH PARKWAY RIGHT-OF-WAY. ALL UTILITIES WILL BE INSTALLED UNDERGROUND.

THE SITE WORK CONSTRUCTION ASSOCIATED WITH THE PROJECT INCLUDES EROSION AND SEDIMENT CONTROL, SITE PREPARATION, MASS EARTHWORK, BUILDING FOUNDATION, TRENCHING, BACKFILLING, GRADING, STORM DRAINAGE, COMMUNICATION AND ELECTRIC UTILITY, EXTERIOR LIGHTING, PAVING, CURBING, PAVEMENT MARKINGS, SIGNAGE, FENCING, LANDSCAPE AND TURF ESTABLISHMENT CONSTRUCTION.

THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THE COMPLETE PROJECT CONSTRUCTION ACTIVITIES IS APPROXIMATELY 2.5 ACRES. THE TOTAL AMOUNT OF IMPERVIOUS SURFACE LAND COVER IS 61,740 SQUARE FEET.

THE SOILS ON THE PROJECT SITE ARE IDENTIFIED IN THE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY FOR THE STATE OF CONNECTICUT AS CHESHIRE FINE SANDY LOAM, 3-8% SLOPES (63B).

THE SITE IS LOCATED WITHIN A PUBLIC WATER SUPPLY WATERSHED AREA AND A MUNICIPAL WATERSHED PROTECTION OVERLAY ZONING DISTRICT.

THE SITE IS LOCATED WITHIN THE MUDDY RIVER SUBREGIONAL DRAINAGE BASIN (HUC 5208).

THE SITE IS LOCATED WITHIN FLOOD ZONE X.

THE SITE IS NOT LOCATED WITHIN AN AQUIFER PROTECTION AREA OR A CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION NATURAL DIVERSITY DATABASE AREA.

AREAS OF STEEP SLOPES (25 PERCENT OR GREATER) ARE NOT LOCATED ON THE SITE.

PROJECT LOCATION:

THE PROJECT IS LOCATED ON AN APPROXIMATE 3 ACRE LAND PARCEL HAVING FRONTAGE ON BOTH RESEARCH PARKWAY AND THORPE AVENUE IN THE NORTHEASTERN PORTION OF THE TOWN OF WALLINGFORD.

PROJECT OWNER:

SIX RESEARCH, LLC
14 NORTH BRANFORD ROAD
WALLINGFORD, CONNECTICUT 06492
203-627-2299

CONTACT PERSON:

KEN QUARTUCCIO
SIX RESEARCH, LLC
14 NORTH BRANFORD ROAD
WALLINGFORD, CONNECTICUT 06492
203-627-2299

PERMIT REQUIREMENTS:

THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF APPROVALS AND PERMITS OF THE TOWN OF WALLINGFORD INLAND WETLANDS AND WATERCOURSES COMMISSION AND PLANNING AND ZONING COMMISSION, AND APPROVALS AND PERMITS ISSUED BY THE TOWN OF WALLINGFORD PLANNING AND ZONING AND BUILDING DEPARTMENTS AND WATER AND SEWER DIVISION.

IN ADDITION, THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES.

THE GENERAL PERMIT INCLUDES REGISTRATION, CERTIFICATION, NOTIFICATION, STORMWATER POLLUTION CONTROL PLAN PREPARATION, AND INSPECTION REQUIREMENTS. THE GENERAL PERMIT CAN BE ACCESSED AT URL:

https://portal.ct.gov/-/media/DEEP/Permits_and_Licenses/Water_Discharge_General_Permits/stormconstgp1.pdf

CONSTRUCTION SCHEDULE AND SEQUENCE:

THE PLANNED START DATE FOR THE PROJECT IS SUMMER 2021. IT IS ANTICIPATED THAT THE DURATION OF SITE WORK CONSTRUCTION WILL BE APPROXIMATELY 3 MONTHS.

THE GENERAL SEQUENCE OF SITE WORK CONSTRUCTION ACTIVITIES WILL BE AS FOLL0WS:

1. EQUIPMENT MOBILIZATION.
2. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS.
3. SITE PREPARATION.
4. MASS EARTHWORK OPERATIONS.
5. BUILDING FOUNDATION CONSTRUCTION.
6. STORM DRAINAGE AND STORMWATER MANAGEMENT SYSTEM CONSTRUCTION.
7. COMMUNICATIONS AND ELECTRIC UTILITY SERVICES CONSTRUCTION.
8. PARKING AREA LIGHTING CONSTRUCTION.
9. PARKING AREA CONSTRUCTION.
10. PAVING AND CURBING OPERATIONS.
11. FENCING CONSTRUCTION.
12. LANDSCAPE PLANTING CONSTRUCTION.
13. TOPSOIL PLACEMENT AND TURF ESTABLISHMENT.
14. RESTORATION OF DISTURBED AREAS.
15. FINAL CLEAN UP AND REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.

B. EROSION AND SEDIMENT CONTROL STANDARDS AND RESPONSIBILITIES

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. THE TYPES AND LOCATIONS OF EROSION AND SEDIMENT CONTROLS DEPICTED ON THE DRAWINGS ARE THE MINIMUM TYPES AND LOCATIONS REQUIRED. THE TYPES OF CONTROLS REQUIRED AND THIER LOCATIONS MAY VARY DURING THE VARIOUS PHASES OF CONSTRUCTION OF THE PROJECT AND THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL REFERENCE THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION FOR SPECIFIC DESIGN CRITERIA, CONSTRUCTION DETAILS, AND MAINTENANCE REQUIREMENTS FOR THE VARIOUS TYPES OF EROSION AND SEDIMENT CONTROLS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING, AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS FOR THE PROJECT.

C. CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONTACT PERSON DESIGNATED HEREIN WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSON(S) TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENTATION PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL GEOTEXTILE SILT FENCE AND/OR STRAW BALE BARRIER ON THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENTATION PROBLEMS. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE TOWN OF WALLINGFORD LAND USE DEPARTMENT (203-294-2090).

D. GENERAL GUIDELINES:

1). PRIOR TO THE START OF WORK, INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER.

2). ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND INSPECTED ON A PERIODIC BASIS AS DEFINED IN THE GUIDELINES FOR EACH TYPE OF CONTROL, AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. IN ADDITION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED PRIOR TO AND DURING MAJOR RAINFALL EVENTS.

3.) LIMIT THE DISTURBANCE OF LAND TO THE LIMITS OF DISTURBANCE REQUIRED TO ACCOMPLISH THE WORK SHOWN ON THE DRAWINGS.

4). PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS TO BE PRESERVED AND TAKE REASONABLE CARE TO PROTECT SUCH EXISTING VEGETATION.

5). WHERE PRACTICABLE, PLAN CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS AND INSTALL PERMANENT VEGETATIVE MEASURES AS SOON AS IS PRACTICABLE.

6). WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE, OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED.

7). ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE AND EROSION.

8). BE RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER PARTICULATE MATTER RESULTING FROM CONSTRUCTION OPERATIONS.

9). TEMPORARY MATERIAL STOCKPILES SHALL BE PROTECTED FROM BOTH WATER AND WIND INDUCED EROSION.

10). BE RESPONSIBLE FOR MONITORING NOAA NATIONAL WEATHER SERVICE WEATHER FORECASTS AND TAKING PROPER PRECAUTIONS TO PREVENT EROSION AND SEDIMENTATION IN ADVANCE OF RAINFALL EVENTS AND REMOVING OR SECURING ALL EQUIPMENT AND MATERIALS IN ADVANCE OF ISSUED FLOOD WARNINGS.

2. VEGETATIVE SOIL COVER

a.) TEMPORARY SEEDING INSTALLATION REQUIREMENTS

i.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

b.) SEEDBED PREPARATION

i.) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.

c.) SEEDING

i.) ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/1,000 SF

ii.) WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.

iii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

iv.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS, SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED), THE RECOMMENDED SEEDING DATES ARE:

MARCH 1 THROUGH JUNE 15 AUGUST 1 THROUGH OCTOBER 1

d.) PERMANENT SEEDING INSTALLATION REQUIREMENTS

i.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

SEEDBED PREPARATION

i.) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.

ii.) WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

ii.) REMOVE FROM THE SURFACE ALL STONES ONE AND ONE-QUARTER INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

iv.) INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

SEEDING DATES

i.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 15 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

APRIL 15 THROUGH JUNE 15 AUGUST 15 THROUGH SEPTEMBER 15

WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SEEDING

i.) UNLESS OTHERWISE SPECIFIED ON LANDSCAPE DRAWINGS IF INCLUDED IN THE DRAWING SET, THE SEED MIXTURE SHALL BE AS FOLLOWS:

SEED MIXTURE	LBS/AC.	LBS/1,000 SQUARE FEET
KENTUCK BLUEGRASS	20	1.80
CREEPING RED FESCUE	20	1.80
PERENNIAL RYEGRASS	5	0.40

ii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.

iii.) WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

iv.) FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD.

v.) HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE ON CRITICAL AREAS. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE AND ONE-QUARTER INCHES IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH OES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

vi.) APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE.

vii.) IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE

i.) LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET).

ii.) WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST BIENNIALLY, 300 POUNDS OR 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).

iii.) WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 0-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).

3. NONSTRUCTURAL MEASURES

a.) SEDIMENT IMPOUNDMENTS, BARRIERS AND FILTERS STRAW BALES SHEET FLOW APPLICATIONS INSTALLATION REQUIREMENTS

i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH THE ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

ii.) ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.

iii.) A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES.

iv.) EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.

v.) THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) STRAW BETWEEN THEM TO PREVENT WATER FROM FLOWING BETWEEN THE BALES.

CHANNEL FLOW APPLICATIONS

INSTALLATION REQUIREMENTS

i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

ii.) THE REMAINING STEPS FOR INSTALLING A BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION:

iii.) THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE

i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAIN EVENTS AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

ii.) ACCUMULATED SEDIMENT BEHIND THE BALES SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGHT OF THE BALES.

SEDIMENTATION CONTROL FENCE

MATERIALS

i.) GEOTEXTILE

GEOTEXTILE SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)
TENSILE STRENGTH AT 20% (MAX) ELONGATION	
EXTRA STRENGTH	50 LBS.LIN. IN. (MIN.)
STANDARD STRENGTH	30 LBS/LIN. IN. (MIN.)
FLOW RATE	0.3 GAL/SF/MIN (MIN.)

ii.) STAKES FOR SEDIMENTATION CONTROL FENCES SHALL BE EITHER 1" X 2" WOOD OR 0.5 POUND (MINIMUM) PER LINEAL FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

iii.) WIRE FENCE REINFORCEMENT FOR SEDIMENTATION CONTROL FENCES USING STANDARD STRENGTH MATERIAL SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.

INSTALLATION REQUIREMENTS

i.) THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 30 INCHES. (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE SEDIMENTATION CONTROL FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED.

ii.) WHEN JOINTS ARE NECESSARY, GEOTEXTILE ROLL ENDS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP AND SECURELY SEALED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

iii.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM DEPTH OF 12 INCHES.

i v.) WHEN STANDARD STRENGTH GEOTEXTILE IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO A TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

v.) THE STANDARD STRENGTH GEOTEXTILE SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF THE GEOTEXTILE SHALL BE EXTENDED INTO THE TRENCH.

vi.) WHEN EXTRA STRENGTH GEOTEXTILE OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.

vii.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE GEOTEXTILE.

MAINTENANCE

i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE AS REQUIRED.

ii.) ACCUMULATED SEDIMENT BEHIND THE FENCE SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE BARRIER.

b.) LAND GRADING

i.) ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.

ii.) AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

iii.) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

iv.) FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS.

v.) FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

vi.) FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.

vii.) TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING.

viii.) ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

c.) TOPSOILING

MATERIALS

SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUALITY ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, TUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH. ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES OF LIME AND FERTILIZER.

INSTALLATION REQUIREMENTS

i.) STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL MAY VERY DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPPING OPERATIONS.

ii.) TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.

iii.) SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

iv.) A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

v.) TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.

vi.) PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS.

vii.) WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.

viii.) AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.

ix.) 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 OR PROPOSED SODDING OR SEEDING. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 6 INCHES. 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.

x.) TOPSOIL SHOULD BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A HIGH MAINTENANCE TURF. UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.

d.) TEMPORARY MULCHING

INSTALLATION REQUIREMENTS

ORGANIC MULCHES

i.) ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED BELOW:

ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES	PER ACRE	PER 1000 SF
STRAW OR HAY	1 1/2 - 2 TONS	70-90 LBS
WOOD FIBER	1000-2000 LBS	25-50 LBS
CORN STALKS	4-6 TONS	185-275 LBS
WOOD CHIPS	4-6 TONS	185-275 LBS
SHREDDED BARK	50-75 CY	1-2 CY

MATERIALS

i.) SELECT MULCH MATERIALS BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY.

APPLICATION

i.) MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 70-90 POUNDS (11/2 TO 2 BALES) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.

ANCHORING

i.) HAY OR STRAW MULCHES MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWING. HAY OR STRAW MULCH MAY BE ANCHORED BY TRACKING WITH CONSTRUCTION EQUIPMENT OR BY USING MULCH NETTING.

MAINTENANCE

i.) ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NET AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. INSPECTIONS SHOULD TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE, REPAIR AS NEEDED.

e.) DUST CONTROL

INSTALLATION REQUIREMENTS

WATER

i.) THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE QUANTITIES OF WATER TO CONTROL DUST.

STONE

i.) COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS USE CHEMICALLY STABLE AGGREGATE.

MAINTENANCE

ii.) WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

REVISIONS:

NO.	DATE	DESCRIPTION

REVISIONS

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

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PROJECT:
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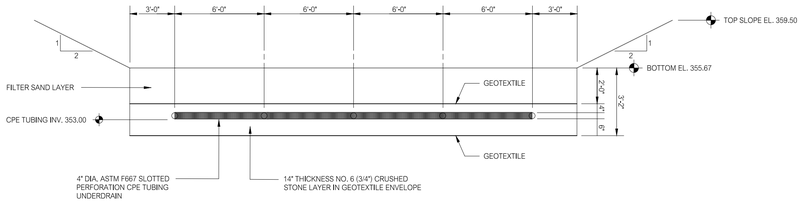
WALLINGFORD, CONNECTICUT

DATE: 4-1-21
SCALE: NONE
DESIGNED: MJO
CHECKED: LJM

SHEET: EROSION AND SEDIMENT CONTROL NOTES

FIELD BOOK: -
PROJECT NO.: 21-12

SHEET NO.: C2.2



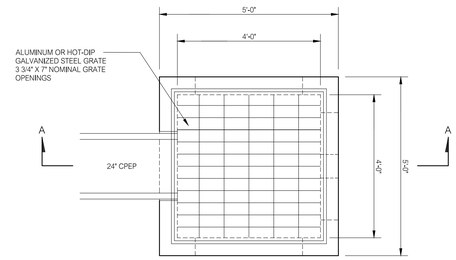
TYPICAL STORMWATER SAND FILTER SECTION

NOT TO SCALE

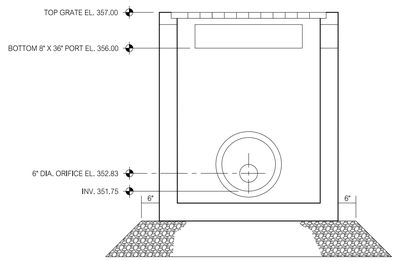
NOTES:

1. SAND FILTER BOTTOM AREA: 1,200 SQUARE FEET (30 FT X 40 FT) AS SHOWN ON THE DRAWINGS.
2. FILTER SAND: CLEAN SAND WITH AN EFFECTIVE SIZE BETWEN 0.2 MM AND 0.6 MM, A UNIFORMITY COEFFICIENT LESS THAN OR EQUAL TO 5.0, AND NO MORE THAN 5 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
3. CRUSHED STONE: CLEAN, (NO. 6) 3/4" WASHED CRUSHED OR BROKEN STONE MEETING THE GRADATION REQUIREMENTS OF SECTION M.01 AND THE REQUIREMENTS OF SECTION M.02.06 3. AND 4. REGARDING RESISTANCE TO ABRASION AND SOUNDNESS RESPECTIVELY OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, 2020, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO.
4. GEOTEXTILE: NON WOVEN SEPARATION/FILTRATION FABRIC. ACCEPTABLE MANUFACTURERS AND TYPES:

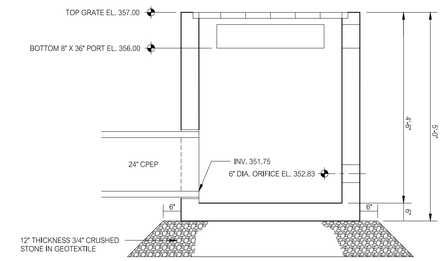
   MIRAFI 65303, 65304
   TERRATEX SO1.5, PO1.5
   TYPAR 3151, 3201
5. PROVIDE A CONCRETE SPLASH PAD AT THE DISCHARGE LOCATION OF THE INLET PIPE TO THE SAND FILTER. SPLASH PAD DIMENSIONS: 5' WIDTH X 6' LENGTH X 4" THICKNESS.



PLAN



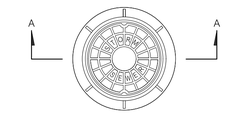
FRONT ELEVATION



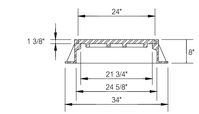
SECTION A-A

PRECAST CONCRETE OUTLET CONTROL STRUCTURE

NOT TO SCALE



PLAN



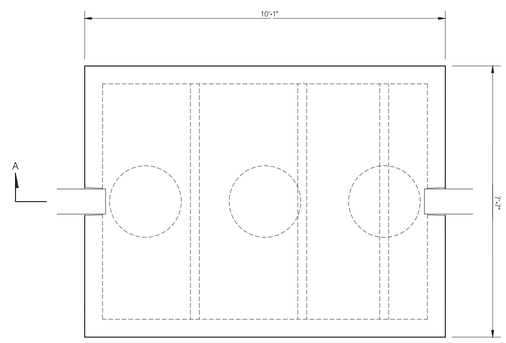
SECTION A-A

STORM MANHOLE FRAME AND COVER

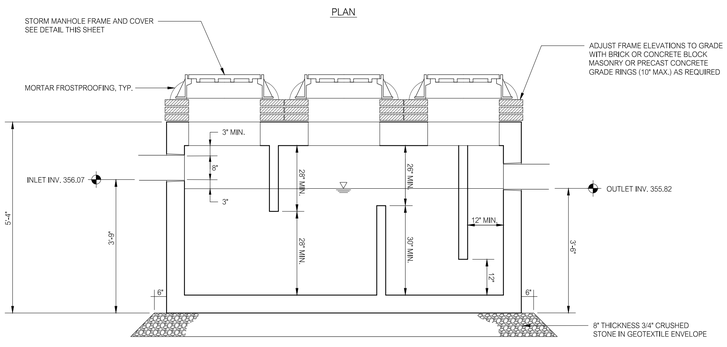
NOT TO SCALE

NOTES:

1. HEAVY DUTY MANHOLE FRAME AND COVER- PATTERN NUMBER 1007 AS MANUFACTURED BY CAMPBELL FOUNDRY COMPANY, HARRISON, NEW JERSEY, OR APPROVED EQUAL.
2. THE DESIGNATION "STORM SEWER" SHALL BE CAST IN THE MANHOLE COVER.



PLAN



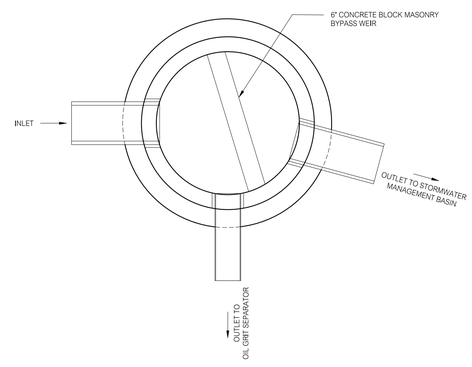
SECTION A-A

1,500 GALLON PRECAST CONCRETE OIL GRIT SEPARATOR

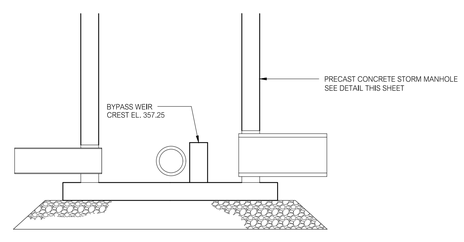
NOT TO SCALE

NOTES:

1. STRUCTURE DIMENSIONS SHOWN ARE BASED ON TYPICAL PRECAST CONCRETE MANUFACTURER DESIGNS FOR THE TYPE OF STRUCTURE SHOWN. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.
2. DESIGN LOADING: AASHTO H 20-44 WHEEL LOADING.
3. CONCRETE REINFORCEMENT NOT SHOWN.
4. INTERIOR SURFACES OF CONCRETE STRUCTURE SHALL BE COATED WITH EPOXY.
5. EXTERIOR SURFACES OF CONCRETE STRUCTURE SHALL COATED WITH BITUMINOUS WATERPROOFING COMPOUND.



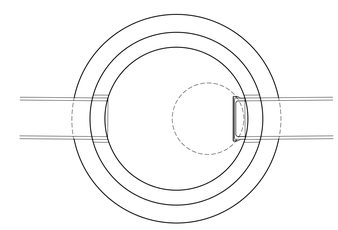
PLAN



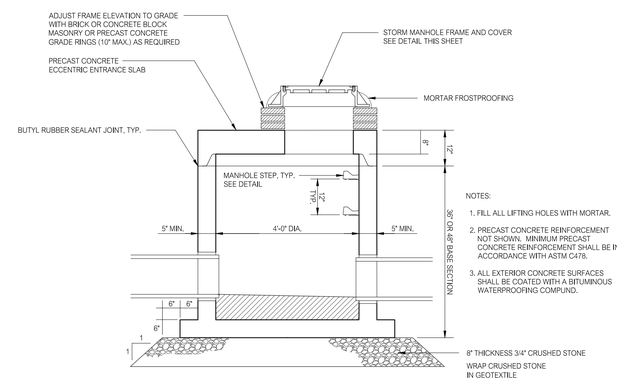
VERTICAL SECTION

FLOW DIVERSION MANHOLE

NOT TO SCALE



PLAN



NOTES:

1. FILL ALL LIFTING HOLES WITH MORTAR.
2. PRECAST CONCRETE REINFORCEMENT NOT SHOWN. MINIMUM PRECAST CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH ASTM C478.
3. ALL EXTERIOR CONCRETE SURFACES SHALL BE COATED WITH A BITUMINOUS WATERPROOFING COMPUND.

VERTICAL SECTION

PRECAST CONCRETE STORM MANHOLE

NOT TO SCALE

REVISIONS:		
NO.	DATE	DESCRIPTION
REVISIONS		

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

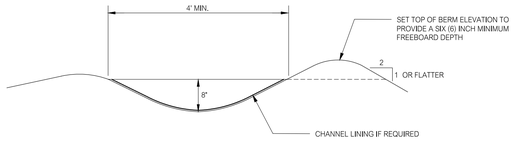
SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

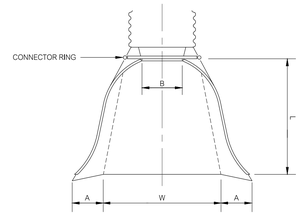
PROJECT: EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

DATE: 4-1-21	SHEET: DETAILS	SHEET NO.: C3.1
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12

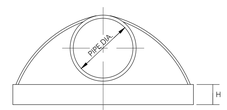


SECTION

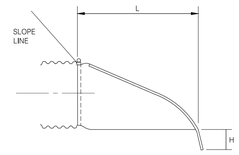
TD TEMPORARY DIVERSION DITCH
NOT TO SCALE



PLAN



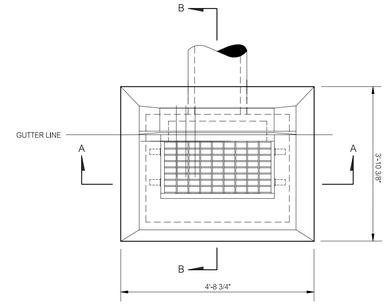
END VIEW



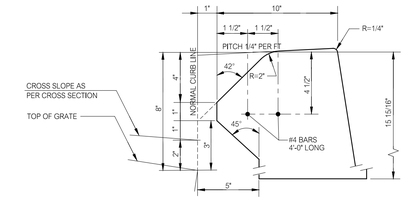
SIDE VIEW

DIMENSIONS FOR METAL CULVERT END						
PIPE DIA.	A MAX	B MAX	H ± 1"	L ± 1 1/2"	W ± 2"	THICKNESS (INCHES)
12	6	6	6	21	24	.064
15	7	8	6	26	30	.064
18	8	10	6	31	36	.064
21	9	12	6	36	42	.064
24	10	13	6	41	48	.064
30	12	16	8	51	60	.079
36	14	19	9	60	72	.079

METAL CULVERT END
NOT TO SCALE

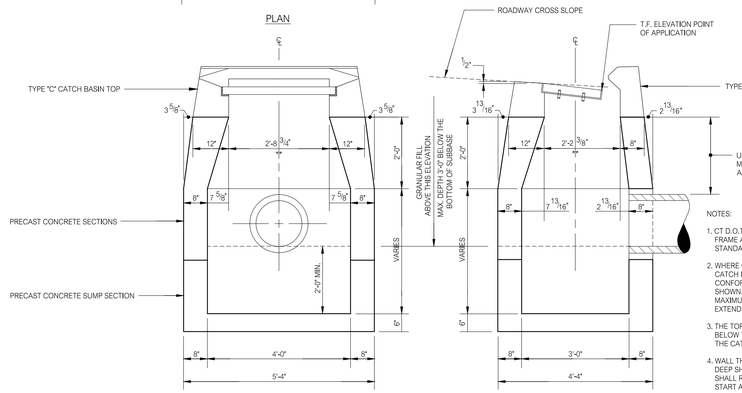


PLAN



TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF BITUMINOUS CONCRETE CURBING 6" HIGH

CURB INLET DETAIL



SECTION A-A

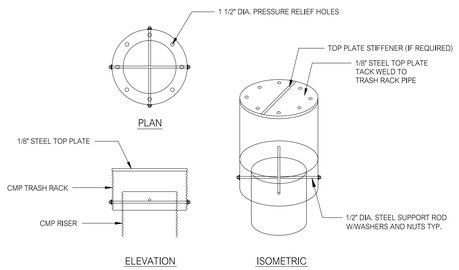
SECTION B-B

UNLESS SPECIFICALLY ORDERED OTHERWISE, MINIMUM DEPTH UNDER TRAVEL WAY IS 1'-7 1/2" AND UNDER UNTRAVELED AREAS IS 0'-3"

NOTES:

1. CT D.O.T. TYPE "A" HOT-DIPPED GALVANIZED STEEL FRAME AND GRATE IN ACCORDANCE WITH CTDOT STANDARD SHEET HW-507-08.
2. WHERE CONCRETE MASONRY UNITS ARE USED, THE CATCH BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVERALL DIMENSIONS SHOWN. CORBELLING WILL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND EXTEND INSIDE OF LIMITS NOTED BY **.
3. THE TOP OF THE SUMP SECTION SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.
4. WALL THICKNESS OF CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12". INSIDE DIMENSIONS SHALL REMAIN THE SAME. 12" WALL THICKNESS SHALL START AFTER THE FIRST 10 FEET.
5. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN ALL FOUR WALS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.

TYPE "C" CATCH BASIN
NOT TO SCALE

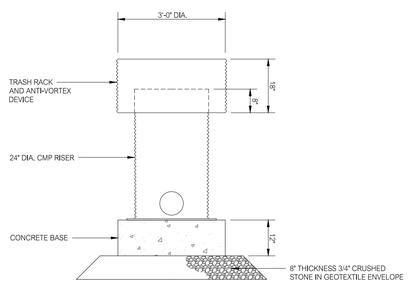


PLAN

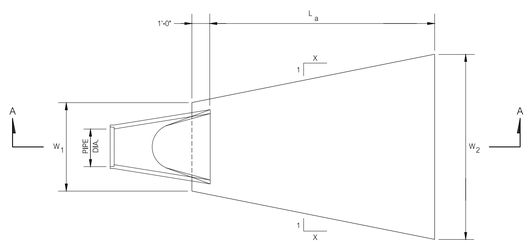
ELEVATION

ISOMETRIC

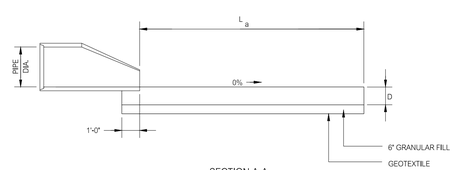
TRASH RACK AND ANTI-VORTEX DEVICE



SEDIMENT BASIN RISER OUTLET
NOT TO SCALE



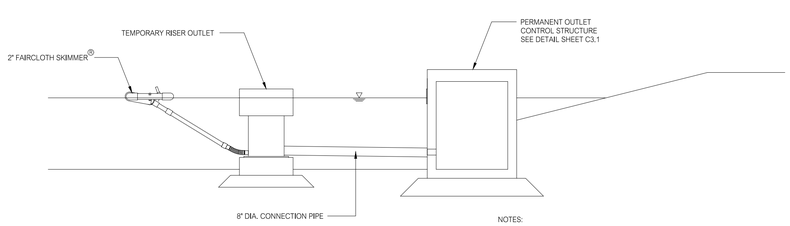
PLAN



SECTION A-A

TYPE A AND B RIPRAP APRON
NOT TO SCALE

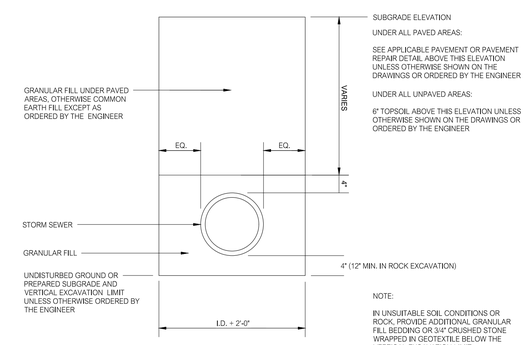
DIMENSIONS FOR TYPE A AND B RIPRAP APRON						
PIPE DIA. (IN)	L_a (FT)	W_1 (FT)	W_2 (FT)	X (FT)	D (FT)	RIPRAP TYPE
15	14	4	10	4.67	1.0	MODIFIED
24	18	6	13	4.0	1.0	MODIFIED



NOTES:

1. CONNECT TEMPORARY 8" DIA. PIPE AT 6" CIRCULAR ORIFICE OF PERMANENT OUTLET CONTROL STRUCTURE.
2. COVER ALL OTHER PERMANENT OUTLET CONTROL STRUCTURE ORIFICES AND PORTS WITH TEMPORARY COVERS THAT PREVENT THE DISCHARGE OF WATER WITHIN THE SEDIMENT BASIN THROUGH THEM.
3. CONNECT 2" FAIRCLOTH SKIMMER® TO TEMPORARY RISER OUTLET. FAIRCLOTH & SON, INC., P.O. BOX 789, HILLSBOROUGH, NORTH CAROLINA 27278, HTTP://FAIRCLOTHSKIMMER.COM.

TEMPORARY SEDIMENT BASIN OUTLET
NOT TO SCALE



SECTION

NOTE:

IN UNSUITABLE SOIL CONDITIONS OR ROCK, PROVIDE ADDITIONAL GRANULAR FILL BEDDING OR 3/4" CRUSHED STONE WRAPPED IN GEOTEXTILE BELOW THE VERTICAL EXCAVATION LIMIT.

STORM SEWER TRENCH
NOT TO SCALE

REVISIONS:		
NO.	DATE	DESCRIPTION

REVISIONS

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

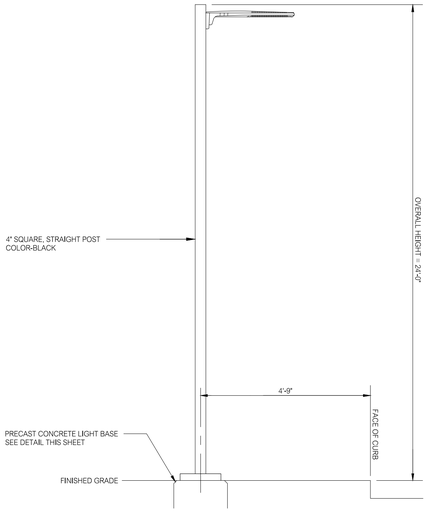
SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

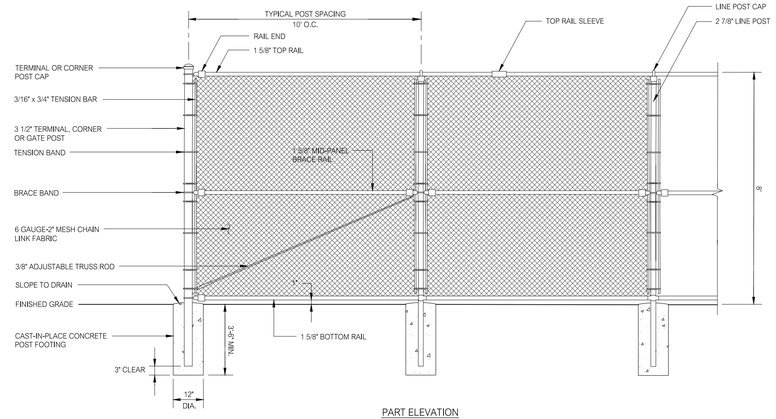
DATE: 4-1-21	SHEET: DETAILS	SHEET NO.: C3.2
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12



PARKING AREA LIGHTING
NOT TO SCALE

NOTES:

1. LUMINAIRE: GARDCO ECOFORM, ECF-L 800mA-96LED-4000K. FINISH COLOR-BLACK.
2. CONTROL: PHOTOMETRIC ON AND TIMER OFF.
3. REFERENCE SHEET C2.1-GENERAL PLAN FOR PARKING AREA LIGHTING LOCATIONS.

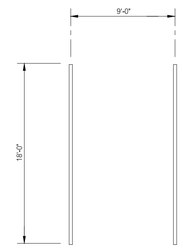


PART ELEVATION

CHAIN LINK FENCE
NOT TO SCALE

NOTES:

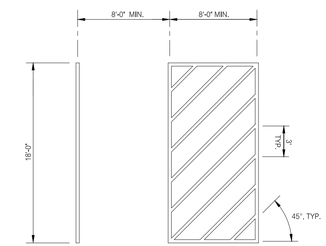
1. CHAIN LINK FABRIC, POSTS, RAILS, FITTINGS AND FASTENERS SHALL BE POLYVINYL CHLORIDE (PVC) COATED, COLOR-BLACK.



STANDARD PARKING STALL
NOT TO SCALE

NOTE:

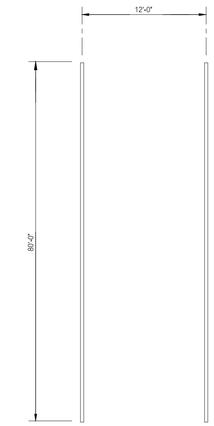
ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.



VAN RESERVED PARKING STALL
NOT TO SCALE

NOTES:

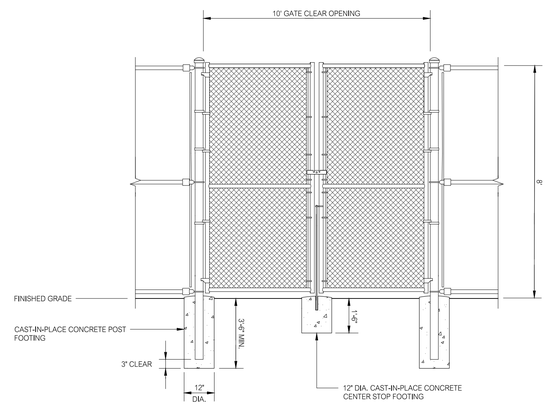
1. ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.
2. THE SLOPE OF THE PAVEMENT SURFACE WITHIN THE LIMITS OF THE RESERVED PARKING SPACE SHALL BE NO GREATER THAN 1:50 IN ANY DIRECTION.
3. STALL AND HATCHED AISLE WIDTHS SHOWN ARE MINIMUM WIDTHS.



CAR CARRIER PARKING STALL
NOT TO SCALE

NOTE:

ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.



ELEVATION

DOUBLE LEAF CHAIN LINK FENCE SWING GATE
NOT TO SCALE

NOTES:

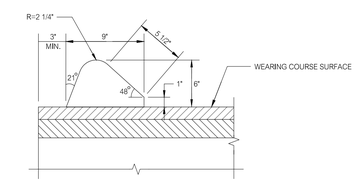
1. CHAIN LINK FABRIC, POSTS, RAILS, FITTINGS AND FASTENERS SHALL BE POLYVINYL CHLORIDE (PVC) COATED, COLOR-BLACK.
2. PROVIDE GATE LATCH AND ARRANGE FOR PADLOCK AT ALL GATE LOCATIONS.

SIGN NO.: R7/R7-8P (31-0662/31-0648)
SIZE: 12" x 24"/12" x 6"
MOUNTING HEIGHT: 5'-0"

RESERVED PARKING SPACE SIGNS
NOT TO SCALE

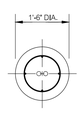
NOTE:

VAN ACCESSIBLE SUBPLATE INSTALLED AT VAN RESERVED PARKING STALLS ONLY.

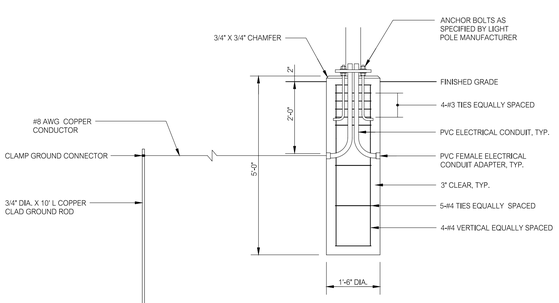


SECTION

BITUMINOUS CONCRETE LIP CURBING
NOT TO SCALE



SECTION

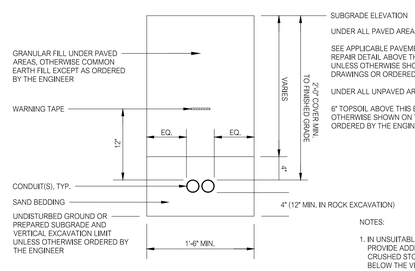


VERTICAL SECTION

PRECAST CONCRETE LIGHT BASE
1/2"=1'-0"

NOTE:

THE EXPOSED SURFACE OF TOP OF THE PRECAST CONCRETE LIGHT BASE SHALL BE PAINTED BLACK.

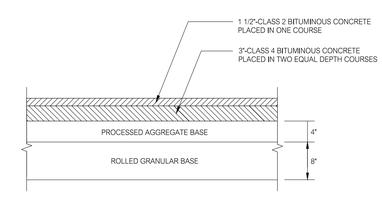


SECTION

POWER AND COMMUNICATIONS CONDUIT TRENCH
NOT TO SCALE

NOTES:

1. IN UNSUITABLE SOIL CONDITIONS OR ROCK, PROVIDE ADDITIONAL SAND BEDDING OR 3/4" CRUSHED STONE WRAPPED IN GEOTEXTILE BELOW THE VERTICAL EXCAVATION LIMIT.
2. PROVIDE 12" HORIZONTAL SEPARATION BETWEEN ELECTRICAL AND COMMUNICATIONS CONDUITS WHEN LOCATED WITHIN THE SAME TRENCH.



TYPICAL HEAVY DUTY PAVEMENT SECTION
NOT TO SCALE

REVISIONS:		
NO.	DATE	DESCRIPTION
REVISIONS		

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

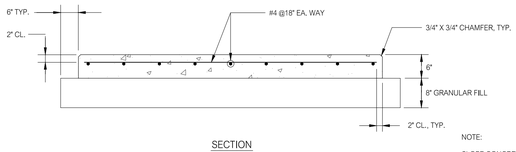
SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

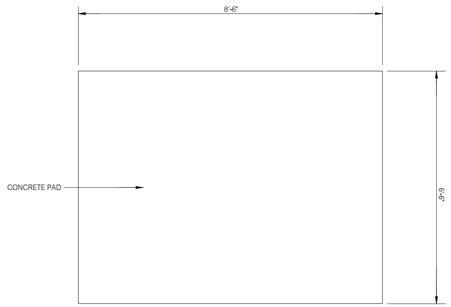
DATE: 4-1-21	SHEET: DETAILS	SHEET NO.: C3.3
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12



SECTION

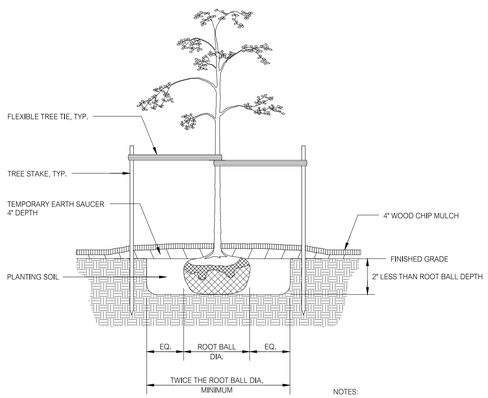
NOTE:

SLOPE CONCRETE PAD SURFACE FOR DRAINAGE.



PLAN

TRASH RECEPTACLE CONCRETE PAD
NOT TO SCALE

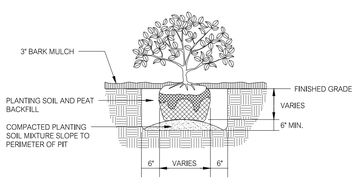


ELEVATION

TREE PLANTING
NOT TO SCALE

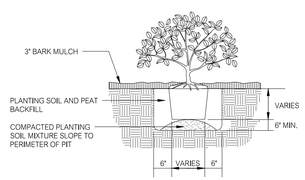
NOTES:

1. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL.
2. SCARIFY BOTTOM AND SIDEWALLS OF TREE PIT PRIOR TO PLACEMENT OF PLANTING SOIL BACKFILL.



BALLED AND BURLAPPED PLANTS

SHRUB PLANTING
NOT TO SCALE

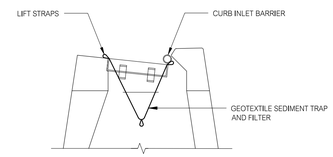


CONTAINER GROWN PLANTS

SHRUB PLANTING
NOT TO SCALE

NOTES:

1. SCARIFY BOTTOM AND SIDEWALLS OF SHRUB PIT PRIOR TO PLACEMENT OF PLANTING SOIL AND PEAT BACKFILL.
2. FOR BALLED AND BURLAPED PLANTS, REMOVE BURLAP FROM TOP 1/3 OF OF ROOT BALL.
3. FOR CONTAINER GROWN PLANTS, OPEN ROOTS FROM ROOT BALL AND SPREAD HORIZONTALLY INTO PLANTING SOIL.
4. SET PLANT CROWN 2" ABOVE FINISHED GRADE.



SECTION

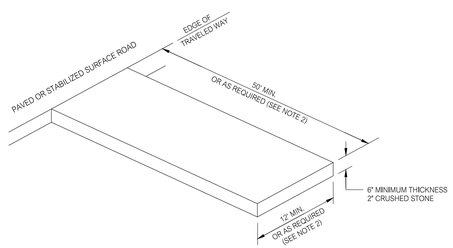
SC SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE
NOT TO SCALE

1. PLACE GEOTEXTILE SEDIMENT TRAP AND FILTER UNDER GRATE AND SET IN FRAME.
2. PLACE CURB INLET BARRIER AGAINST CURB INLET OPENING.

1. INSPECT DRAINAGE STRUCTURE INLETS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE SEDIMENT TRAP AND FILTER WHEN 1/2 FULL. DISPOSE OF SEDIMENT, CLEAN AND RE-INSTALL THE SEDIMENT TRAP.

NOTE:

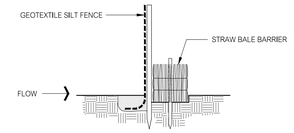
TYPE "C" CATCH BASIN SHOWN. THIS DETAIL APPLIES TO ALL DRAINAGE STRUCTURE INLET TYPES SHOWN ON THE DRAWINGS.



CE CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTES:

1. CLEAR AND GRUB AREA AND REMOVE TOPSOIL BEFORE PLACEMENT OF CRUSHED STONE LAYER. A GEOTEXTILE MAY BE REQUIRED TO STRENGTHEN SUBGRADE SOILS AND TO PREVENT STONE MOVEMENT AND LOSS OF VOIDS WITHIN THE STONE ENTRANCE WHERE REQUIRED.
2. LENGTH OF ENTRANCE MAY BE LIMITED BY SITE CONDITIONS. PROVIDE ADEQUATE WIDTH OF ENTRANCE AT ROAD INTERSECTION TO ACOMMODATE THE TURNING MOVEMENTS OF CONSTRUCTION VEHICLES.
3. MAINTAIN ENTRANCE SO AS TO PREVENT TRACKING OR WASHING OF SEDIMENT ONTO ROAD. SEDIMENT THAT MAY BE TRACKED OR OTHERWISE DEPOSITED WITHIN THE ROAD SHALL BE REMOVED IMMEDIATELY.
4. MAINTENANCE MAY INCLUDE THE REQUIREMENT FOR TOP DRESSING THE CRUSHED STONE LAYER OR REPLACING THE FULL DEPTH OF THE CRUSHED STONE LAYER.
5. SHOULD SITE CONDITIONS BE SUCH THAT SOIL CANNOT BE REMOVED BY VEHICLES TRAVELING OVER THE ENTRANCE, THE TIRES OF VEHICLES MAY HAVE TO BE WASHED PRIOR TO VEHICLES ENTERING THE ROAD. ALL WASH WATER SHALL BE DIRECTED THROUGH AN APPROVED SEDIMENT FILTER OR TO A SEDIMENT BASIN.

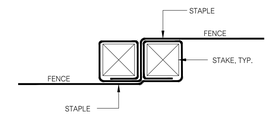


SECTION

GEOTEXTILE SILT FENCE AND STRAW BALE SEDIMENT BARRIER
NOT TO SCALE

NOTE:

SEE GEOTEXTILE SILT FENCE AND STRAW BALE BARRIER DETAILS THIS SHEET.

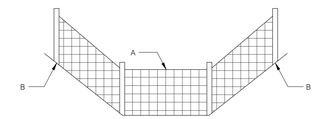


PLAN

FENCE JOINT DETAIL

NOTE:

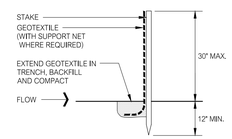
DRIVE STAKES TIGHTLY TOGETHER AND SECURE TOPS OF STAKES WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF SEDIMENT.



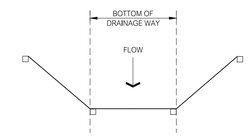
ELEVATION

NOTE:

WHEN NOT INSTALLED ON THE CONTOUR OR WHEN INSTALLED IN A DRAINAGE WAY, THE ELEVATION OF POINTS B SHALL BE HIGHER THAN POINT A.



SECTION

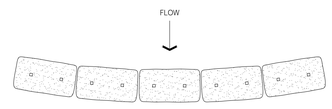


PLAN

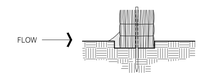
GSF GEOTEXTILE SILT FENCE
NOT TO SCALE

1. EXCAVATE 6" DEEP TRENCH FOR LENGTH OF THE FENCE.
2. EXTEND 6" LENGTH OF GEOTEXTILE INTO TRENCH, BACKFILL AND COMPACT.
3. AS AN ALTERNATE METHOD, EXTEND LENGTH OF GEOTEXTILE HORIZONTALLY ON EXISTING GROUND, RAMP SOIL OVER GEOTEXTILE AND COMPACT.

1. INSPECT FENCE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.



PLAN



SECTION

HB STRAW BALE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH FOR LENGTH OF BALES.
2. PLACE AND STAKE BALES, TWO (2) STAKES PER BALE.
3. PLACE BALES SUCH THAT BINDINGS ARE ORIENTED AROUND THE SIDES OF BALES RATHER THAN ALONG THE TOP AND BOTTOM OF BALES.
4. WEDGE LOOSE STRAW BETWEEN BALES.
5. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.

1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.

REVISIONS:

NO.	DATE	DESCRIPTION

REVISIONS

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

SEAL:

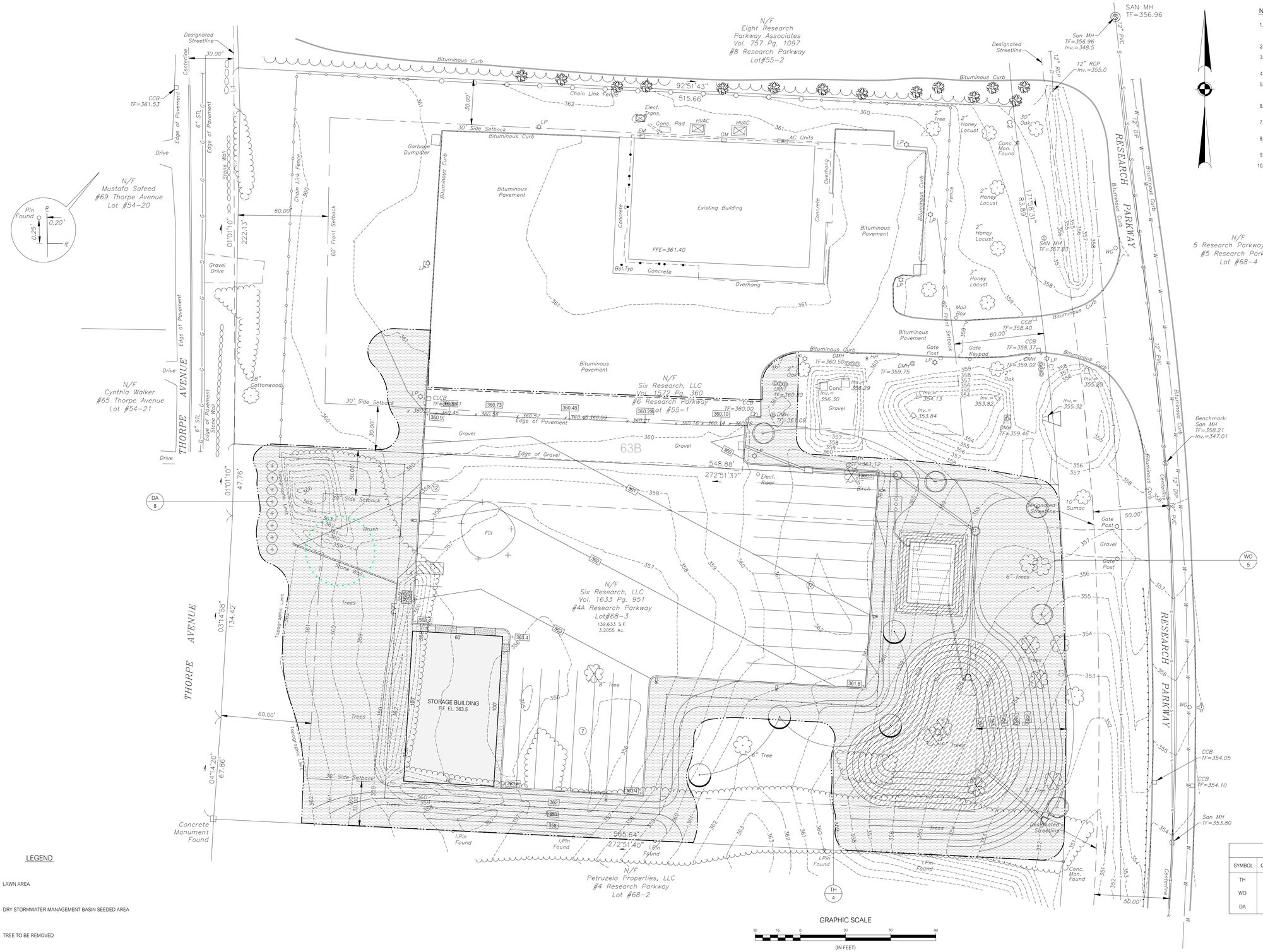
PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:

EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

DATE: 4-1-21	SHEET: DETAILS	SHEET NO.: C3.4
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 21-12



NOTES:

1. PRIOR TO BEGINNING LANDSCAPE WORK, ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES INCLUDING THE LOCATION OF ALL SITE LIGHTING ELECTRICAL CONDUCTORS.
2. COORDINATE LANDSCAPE WORK WITH THE WORK OF OTHER TRADES.
3. SCARIFY ALL AREAS TO BE PLANTED TO A DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
4. ALL DISTURBED AREAS SHALL RECEIVE A SIX INCH DEPTH OF TOPSOIL.
5. ALL DISTURBED AREAS NOT SHOWN TO BE SEEDED LAWN OR DRY STORMWATER MANAGEMENT BASIN SEEDED AREAS SHALL BE SEEDED WITH A CONSERVATION SEED MIX.
6. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN NURSERYMANS ASSOCIATION STANDARD FOR NURSEREY STOCK, ANSI Z69.1-2004.
7. PLANT SPECIES MAY BE ADJUSTED AT THE TIME OF PLANTING BASED ON AVAILABILITY.
8. WHERE A SIZE RANGE IS SPECIFIED, AT LEAST 50% OF THE PLANT MATERIAL SHALL BE THE LARGER SIZE OF THE RANGE SPECIFIED.
9. SEE TREE AND SHRUB PLANTING DETAILS SHEET C3.4 FOR PLANTING INFORMATION.
10. MULCH ALL PLANT BEDS WITH A MINIMUM THREE INCH THICKNESS AFTER SETTLEMENT OF DOUBLE GROUND SHREDDED BARK MULCH.

LEGEND

- LAWN AREA
- DRY STORMWATER MANAGEMENT BASIN SEEDED AREA
- TREE TO BE REMOVED

PLANT SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
TH	4	Gleditsia triacanthos f. inermis	Thornless Honeylocust	2 1/2"-3" Cal.
WO	5	Quercus alba	White Oak	2 1/2"-3" Cal.
DA	8	Thuja occidentalis 'Nigra'	Dark American Arborvitae	2 1/2"-3" Cal.

KEY

XX — SYMBOL
XX — QUANTITY

REVISIONS:

NO.	DATE	DESCRIPTION

REVISIONS

TITLE:

LAND
OF
SIX RESEARCH, LLC
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
EASTSIDE AUTO TRANSPORT
4A RESEARCH PARKWAY
WALLINGFORD, CONNECTICUT

DATE: 4-1-21
SCALE: 1"=30'
DESIGNED: MJO
CHECKED: LJM
SHEET: LANDSCAPE PLAN
FIELD BOOK: -
PROJECT NO.: 21-12
SHEET NO.: L1.1