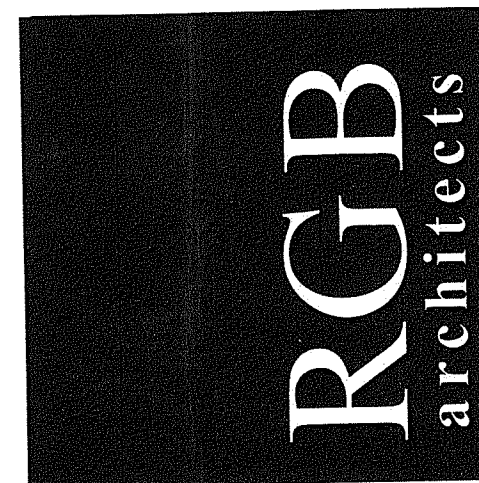


RHODE ISLAND ARMY NATIONAL GUARD



READINESS CENTER ADDITION
106 AIRPORT ACCESS ROAD, MIDDLETOWN, RI
PLAT 112 LOT 24A

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MECHANICAL, ELECTRICAL,
PLUMBING

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TELECOM/SECURITY

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REVISION DATE SHEET # SHEET NAME
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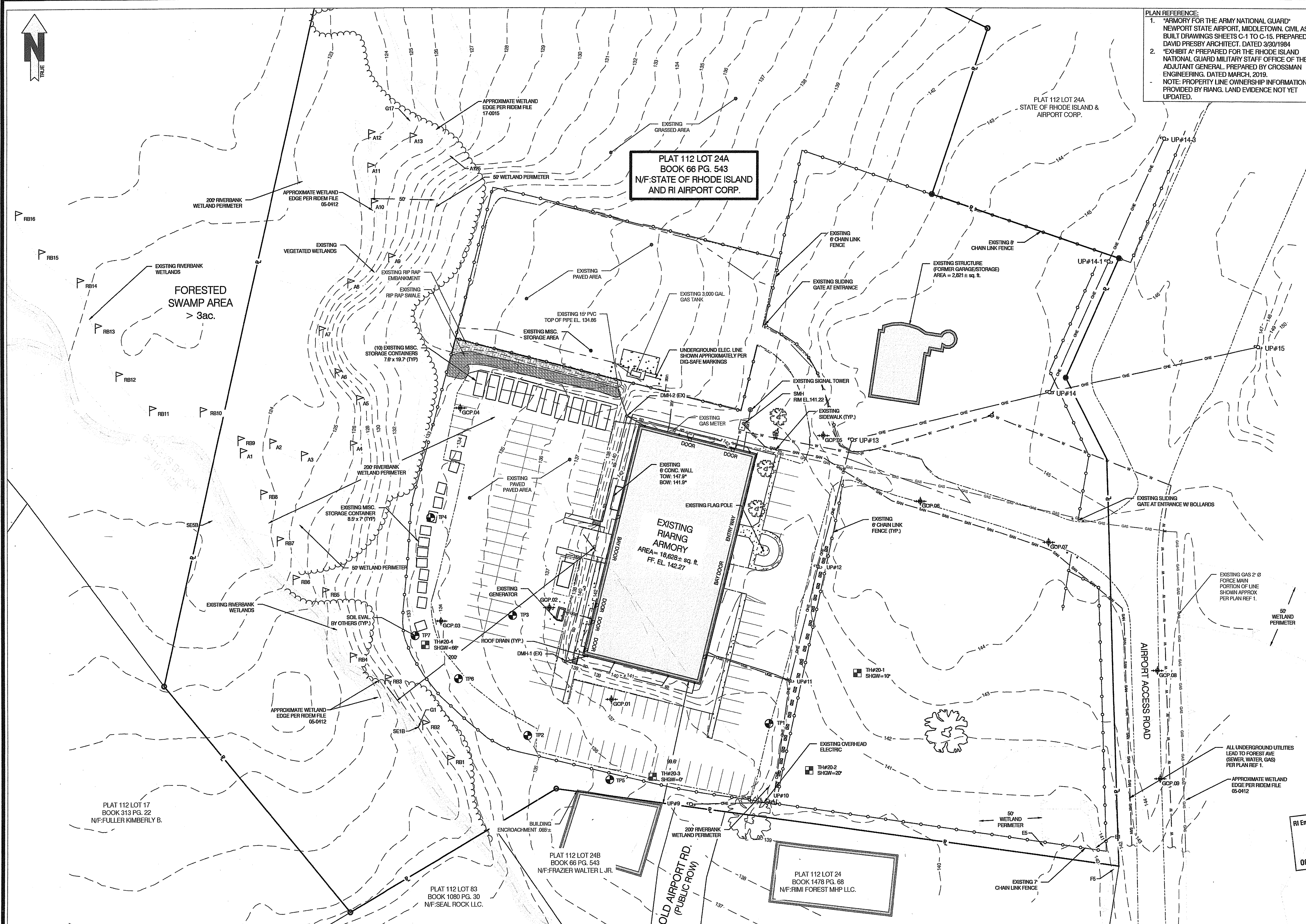
SV100	EXISTING CONDITIONS AND UTILITY PLAN
SV101	EXISTING CONDITIONS SITE SURVEY M&B AND TOPOGRAPHY
SV102	DETAILS AND NOTES
C001	DEMO AND EROSION CONTROL PLAN
C002	LEAD SOIL ABATEMENT PLAN
C100	PROPOSED SITE PLAN
C101	PROPOSED DRAINAGE & GRADING PLAN (REV 10-15-21)
C102	DETAILS AND NOTES
C103	DETAILS AND NOTES
C104	DETAILS AND NOTES
C105	SOIL EVALUATION PROFILES
C106	SAND FILTER DETAILS
C107	GUARD RAIL DETAILS
C300	EXISTING WATERSHED MAP
C301	PROPOSED WATERSHED MAP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 3 2021 FILE # 21-0274
NO CHANGES ALLOWED WITHOUT PRIOR WRITTEN
APPROVAL. PLANS MUST BE AT CONSTRUCTION SITE.
William J. Felleman

Environmental Management
OCT 18 2021
Office of Water Resources

STATUS: FOR CONSTRUCTION
DATE: JUNE 15, 2021

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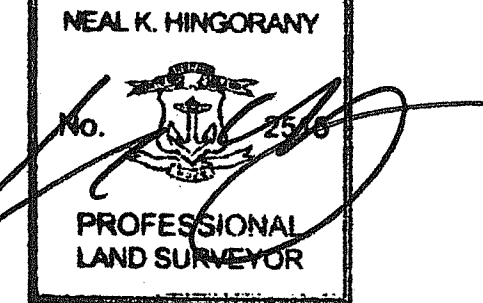
PLAN REFERENCE:
 1. "ARMORY FOR THE ARMY NATIONAL GUARD" NEWPORT STATE AIRPORT, MIDDLETOWN, CIVIL AS-BUILT DRAWINGS SHEETS C-1 TO C-15, PREPARED BY DAVID PRESSBY ARCHITECT, DATED 3/30/1984
 2. "EXHIBIT A" PREPARED FOR THE RHODE ISLAND NATIONAL GUARD MILITARY STAFF OFFICE OF THE ADJUTANT GENERAL, PREPARED BY CROSSMAN ENGINEERING, DATED MARCH, 2019.
 NOTE: PROPERTY LINE OWNERSHIP INFORMATION PROVIDED BY RIANG. LAND EVIDENCE NOT YET UPDATED.

NET
Narragansett Engineering Inc.
 Civil - Survey - Structural - Environmental - Design
 3102 East Main Road, Portsmouth RI 02871
 Tel. 401.853.8630 www.net-cds.com

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Certification
 CERTIFICATION THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON MARCH 24th, 2020, AS FOLLOWS:

LIMITED CONTENT BOUNDARY SURVEY - CLASS I
 DATA ACCUMULATION SURVEY - CLASS III
 TOPOGRAPHIC SURVEY T-2 ACCURACY (\$1.9/9(D)) **

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO DISPLAY EXISTING CONDITIONS, UTILITY FEATURES & THE EXISTING WETLANDS ON SITE IN PREPARATION FOR FUTURE PLANNING AND DESIGN.



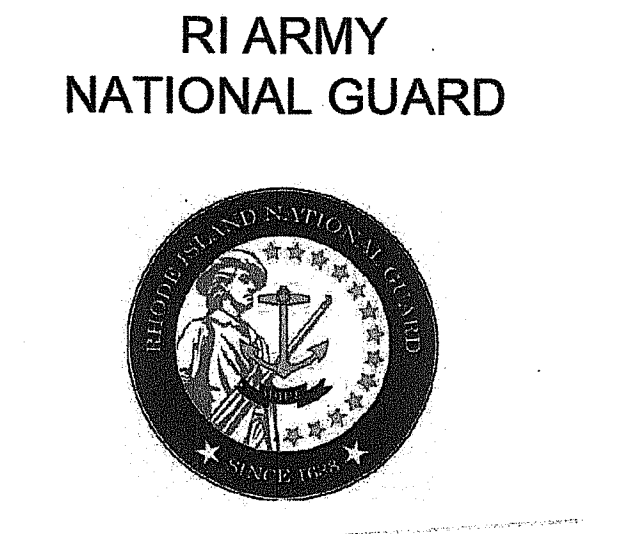
NEAL HINGORANY REG. 2515
 COA: A38
 Drawn by LD
 Checked by NKH & EC
 Revised on

LEGEND

	BRUSH LINE (APPROXIMATE)
	DIMENSION - EXISTING
	DIMENSION - PLAN / DEED
	DIMENSION - PROPOSED
	DIMENSION - SURVEY
	EDGE OF PAVEMENT - EXISTING
	EDGE OF PAVEMENT - PROPOSED
	ELECTRIC - OVERHEAD (OHE)
	ELECTRIC, TELEPHONE, CABLE (ETC)
	ELECTRIC - UNDERGROUND (UGE)
	FENCE - METAL
	FENCE - WOOD
	FLOW ARROWS
	GAS (G)
	GRADE CONTOUR - EXISTING
	GRADE CONTOUR - PROPOSED
	LIMIT OF DISTURBANCE / SEDIMENT CONTROL
	LOD / SED
	PROPERTY LINE - ABUTTING
	PROPERTY LINE - EXISTING
	SANITARY SEWER (S)
	SEDIMENT CONTROL
	SETBACKS
	STONE WALL
	STORM DRAIN (SD)
	WETLAND EDGE (RDEM 05-0412)
	50' PERIMETER (RDEM 05-0412)
	200' PERIMETER (RDEM 05-0412)
	50' WETLAND PERIMETER
	200' WETLAND PERIMETER
	VEGETATED WETLANDS
	RIVERBANK WETLANDS
	BAILEY'S BROOK
	GROUND CONTROL POINT (GCP)
	CATCH BASIN
	DRILL HOLE
	ELECTRIC BOX (ETC)
	FIRE HYDRANT
	GATE VALVE
	GRANITE BOUND, EXISTING
	LOW WATER LINE
	LIMIT OF DISTURBANCE MARKER
	MANHOLE (MH-TYPE)
	REBAR / STEEL PIPE FOUND
	SPIKE
	SPOT GRADE - EXISTING
	SPOT GRADE - PROPOSED
	STRUCTURE, EXISTING
	STRUCTURE, PROPOSED
	SURVEY MONUMENT TO BE SET
	SURVEY MARKER TO BE SET
	TREE
	UTILITY POLE
	WATER SHUT OFF
	WETLAND FLAG LOCATION
	SOIL EVALUATION
	SOIL EVALUATION BY OTHERS

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Architecture - Project Management - Interior Design



RI ARMY NATIONAL GUARD
READINESS CENTER ADDITION
 106 AIRPORT ACCESS RD
 MIDDLETOWN, RI 02842

Drawing Status
FOR CONSTRUCTION
 Issued On: June 15th, 2021

Sheet Contents
EXISTING CONDITIONS AND UTILITY PLAN
 Project Number: 6554
 Drawing No. SV100
 Sheet 1 of 13 2 of 16

SITE NOTES:
 1. ZONING INFORMATION SHOWN FROM RECORD INFORMATION, MAPS AND / OR GIS. ZONING DATA MAY VARY BASED ON USE, LOT SIZE, ORIENTATION AND OTHER FACTORS AND IS SHOWN FOR REFERENCE INFORMATION ONLY.
 2. ZONING DATA MUST BE CONFIRMED WITH ZONING OFFICIAL AND / OR LEGAL COUNSEL FOR USE IN DESIGN OR PERMITTING.
 3. COORDINATE SYSTEM IS RI8900 / NAVD 88.
 4. TOPOGRAPHY IS MIX OF ON GROUND SHOTS, UAV DATA AND RI SPRING 2011 LIDAR.
 - AREA OF CONCERN: UAV DERIVED POINT CLOUD WITH GPS SHOTS
 - OUTSIDE AREA OF CONCERN: SPRING 2011 LIDAR WITH GPS SHOTS
 5. ALL PROPOSED ITEMS MUST BE LAID OUT BY REGISTERED SURVEYOR AS NOTED.
 6. PLAN IS NOT AS BUILT UTILITY PLAN.
 7. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT OF PROBATE SEARCH, AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
 8. LOCATION OF SUBSURFACE MAINS, SURFACE FEATURES, AND LATERALS ARE OMITTED. CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. DIG SAFE TEL: 1-800-344-7233 (1-800-DIG-SAFE).
 A. WATER - SURFACE FEATURES SHOWN, UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 B. SEWER - SURFACE FEATURES SHOWN, UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 C. GAS - SURFACE FEATURES SHOWN, UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 D. ELECTRIC - SURFACE/OVERHEAD FEATURES SHOWN, UNDERGROUND SHOWN PER DIG SAFE
 E. STORM DRAIN - SURFACE FEATURES SHOWN, UNDERGROUND SHOWN PER PLAN REF. 1 AND FIELD INVESTIGATION
 NOTE: ALL SURFACE, SUBSURFACE AND OVERHEAD UTILITY FEATURES MEET QUALITY LEVEL C AS PRESCRIBED BY ASCE 38-02.
 9. REFERENCE PREVIOUS RIDEM APPLICATION # 15-0128, 17-0015
 10. ABUTTING PROPERTY LINE INFORMATION SHOWN PER TOWN OF MIDDLETOWN GIS
 11. REMOVED PER REV. 1.
 12. SITE IS LOCATED IN SURFACE WATER PROTECTION AREA
 13. SITE MAY BE EXEMPT FROM MUNICIPAL ZONING REQUIREMENTS DUE TO STATE OWNERSHIP
 14. ELEVATIONS SHOWN WITH PER UAV DATA
 15. PREVIOUS RIDEM FILE # 05-0412

UAV SURFACE TOLERANCE TEST - RIANG

POINT #	DESCRIPTION	SURVEYED EL.	SURFACE EL.	VERTICAL DIFFERENCE	HORIZONTAL DIFFERENCE
45	DMH.01	140.49	140.42	0.07	0.05
87	EOP.31	141.53	141.52	0.01	0.06
876	M2.02	141.21	141.230	-0.02	0.04
2	IPFOUND.01	145.71	145.800	-0.09	0.1
1	IPFOUND.02	142.65	142.77	-0.12	0.08
44	TOPCULVERT15PVC	134.86	134.95	-0.09	0.05
79	EOP.58	141.51	141.42	0.09	0.09
78	EOP.59	141.55	141.60	-0.05	0.04
47	EOP.46	137.54	137.62	-0.08	0.12
57	MH.01	139.45	139.64	-0.19	0.05

Std. Dev. 0.086 0.027
 Root Mean Square Error 0.298 0.233

EXISTING CONDITIONS AND UTILITY PLAN

SCALE: 1" = 40'

POINT #	NORTHING	EASTING	ELEVATION
GCP.01	162868.40	386764.87	137.06
GCP.02	162942.08	386714.66	137.08
GCP.03	162931.33	386627.07	134.02
GCP.04	163102.07	386642.68	133.57
GCP.05	163079.80	386936.25	143.02
GCP.06	163027.15	387015.03	144.01
GCP.07	162994.41	387118.89	144.67
GCP.08	162892.21	387207.32	144.72
GCP.09	162805.54	387209.65	144.18

LOT SIZE	PERCENT
501,244 SQ FT	100%
IMPERVIOUS (BUILDINGS)	21,447 SQ FT 4.28%
IMPERVIOUS (CONCRETE & PAVING)	89,248 SQ FT 17.81%
PERVIOUS	390,549 SQ FT 77.92%

ABBREVIATIONS:
 W: WATER
 SAN: SANITARY SEWER
 SD: STORM DRAIN
 G: NATURAL GAS
 E: ELECTRIC
 EX: EXISTING
 PR: PROPOSED
 T: TOP OF WALL
 B: BOTTOM OF WALL

DEED RESEARCH

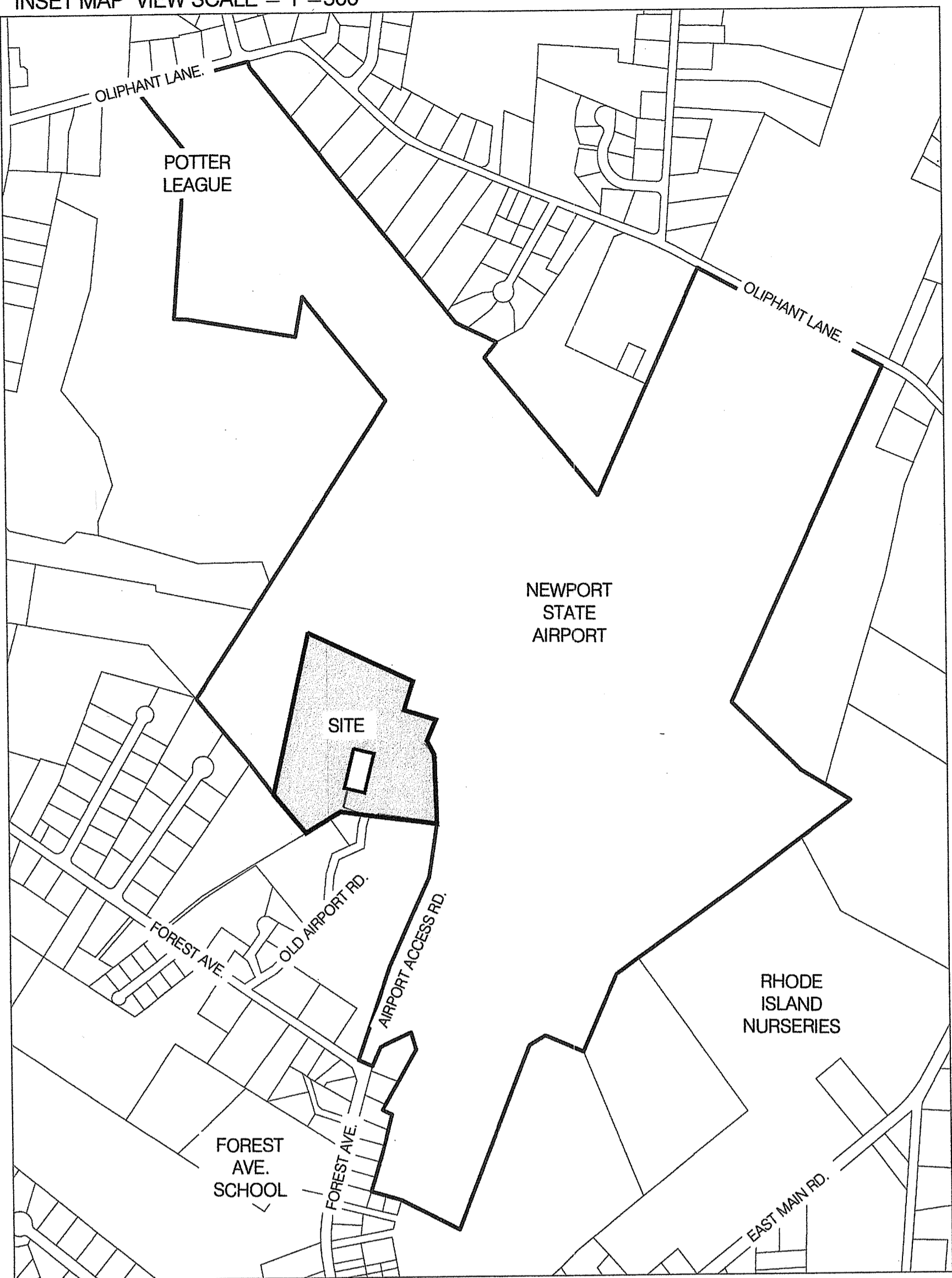


CLIENT RHODE ISLAND ARMY NATIONAL GUARD
PROJECT # 20.0112 TOWN OF MIDDLETOWN

DATE 3/19/2020

NO.	PLAT	LOT	BOOK	PAGE	OWNER OF RECORD	DEED	OTHER	DATE FILED
1	112	24A	66	543	STATE OF RHODE ISLAND & RI AIRPORT CORP	X		
2	112	1	1125	256	MCDONALD'S REAL ESTATE COMPANY, C/O JOHN PINCKNEY	X		
3	112	2	932	111	FREEDOM HOUSING CORP. C/O PHOENIX PROPERTY MGMT	X		
4	112	2A	1590	273	1397 WMR PROPERTIES LLC	X		
5	112	3	348	195	D E FOODS INC	X		
6	112	4	831	162	JALARAM VANI LLC	X		
7	112	5	1026	22	NEWPORT PROPERTIES LLC	X		
8	112	24	1478	68	RIMI FOREST MHP LLC	X		
9	112	24B	260	4	FRAZIER WALTER L JR	X		
10	112	25	344	67	MEDEIROS WILLIAM C JR & AMELIA K	X		
11	112	25A	316	308	DUFFY ROBERT J & ROBERTA E	X		
12	112	14	1446	235	MDR ENTERPRISES LLC	X		
13	112	17	313	22	FULLER KIMBERLY B	X		
14	112	6C	1553	295	BURNLEY TYLER & ANNA	X		
15	112	33	1270	175	SAMJUL ENTERPRISES LLC	X		
16	112	35	253	13	LACERDA HENRY A JR	X		
17	112	36	360	189	COOK JAY C & MAUREEN M	X		
18	112	49	1549	135	CHEN YUN	X		
19	112	50	94	507	MEDEIROS WILLIAM C JR & AMELIA K	X		
20	112	707	142	180	RK MIDDLETOWN VILLAGE LLC C/O RK CENTERS	X		
21	112	708	689	232	CRYSTAL SPRING WATER COMPANY	X		
22	112	64	1540	6	AUSTIN HOLDINGS CORP	X		
23	112	83	1080	30	SEAL ROCK LLC	X		
24	112	84	1427	158	SMITH TIMOTHY	X		
25	112	85	571	253	CUNNINGHAM KIERAN G & SHARON L	X		
26	112	86	1318	170	CUNNINGHAM KIERAN & SHARON	X		
27	112	505	687	51	BRENNAN REALTY LLC NO.7	X		
28	112	510	1454	236	CUNHA TERESA M	X		
29	112	603	1278	65	ANTHONY RAYMOND JOSEPH	X		
30	112	604	1386	258	SILVA RICHARD B	X		
31	118	13	489	39	VANBRU LIMITED PARTNERSHIP FOR REALTY C/O RHODE ISLAND NURSERIES	X		
32	118	15	489	39	VANBRU LIMITED PARTNERSHIP FOR REALTY C/O RHODE ISLAND NURSERIES	X		
33	118	18	489	39	VANBRU LIMITED PARTNERSHIP FOR REALTY C/O RHODE ISLAND NURSERIES	X		
34	113	85	1225	177	DUGAN KEVIN J	X		
35	113	122	483	63	GREENWOOD GAIL A & HENRY W MOTT IV	X		
36	113	125	1333	248	RIPA LLOYD V JR & SARAH R	X		
37	113	126	431	172	RIPA LLOYD V JR & SARAH ROY	X		
38	113	127	431	174	RIPA LLOYD V JR & SARAH ROY	X		
39	113	128	1528	85	HORGAN SHAUN M & EMILY A MCCAFFREY	X		
40	113	129	1173	105	ROMAN EDUARDO GARCIA	X		
41	113	153	1574	194	BREEN RICHARD R ET AL	X		

INSET MAP VIEW SCALE = 1"=500'



FEMA FLOOD MAP PER NFHL, ZONE X



ZONING DIMENSIONAL TABLE PER TOWN OF MIDDLETOWN GIS- ZONE LI

Zoning District and Use	Minimum Lot Size		Maximum Percentage of Lot to be Occupied	Maximum Height of Building		Minimum Yard Dimension			Accessory Buildings Minimum Distance in Feet to	
	Area (S.F.)	Width/Frontage (Ft.)		Principal and Accessory Buildings	Accessory (Ft.)	Front (Ft.)	Side (Ft.)	Rear (Ft.)	Side Lot Lines	Rear Lot Lines
LI Industrial District										
Any permitted use	40,000	150	35%	40	20	10	35	40	25	10



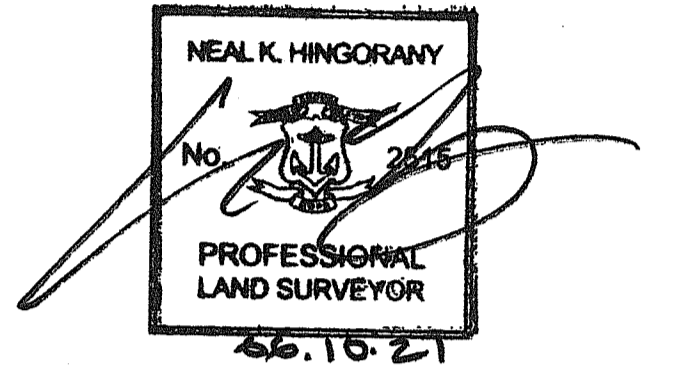
WETLAND FLAGS:
- SET BY ECOSYSTEMS SOLUTIONS INC.
- DATED 3-10-2020
- FLAGS RB 1-16 & A 1-13

BUILDING HEIGHT NOTE:
NEI RECOMMENDS HEIGHT VERIFICATION TO BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR TO ENSURE ELEVATIONS DO NOT EXCEED PLANS OR ZONING LIMITS.

BENCHMARK NOTE:
NEI WILL ALWAYS PROVIDE A MINIMUM OF TWO SITE BENCHMARKS. CONTRACTOR TO VERIFY ALL BENCHMARKS EXIST PRIOR TO CONSTRUCTION. ELEVATIONS OF ALL BENCHMARKS TO BE SHOT IN FIELD (WITH SUITABLE EQUIPMENT) AND DIFFERENTIAL TO BE VERIFIED. IF VERTICAL DIFFERENTIAL EXCEEDS 0.09 FT SHALL BE IMMEDIATELY REPORTED TO NEI. DIFFERENTIAL IN EXCESS OF 0.09 INDICATES THAT BENCHMARKS MAY HAVE BEEN DISTURBED AND ARE NOT SUITABLE FOR USE.

- UNMANNED AERIAL VEHICLE (UAV) NOTES:
- THIS PLAN IS BASED ON A PRIVATE UAV FLIGHT PROVIDED BY NARRAGANSETT ENGINEERING INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON. THE UAV FLIGHT TOOK PLACE ON MARCH 6th, 2020. RMS ERROR OF GROUND CONTROL POINTS (COMPUTED) = .021". IMAGES WERE TAKEN AT 1500L ABOVE GROUND. LEVEL PIXEL SIZE IS 0.08" EXPECTED VERTICAL TOLERANCE (RMS ERROR, Z. 034)
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
 - ELEVATIONS WERE COMPUTED FROM A PRIVATE UAV FLIGHT USING PHOTOGRAMMETRY SOFTWARE AND TESTED AGAINST FOUR GROUND CONTROL POINTS WITH AN AVERAGE VERTICAL ACCURACY OF .08 FT. THERE MAY BE ANOMALIES IN THE DATA AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
 - ORTHOGRAPHY PHOTO DEVELOPED BY DATA AND PICTURES COLLECTED BY THE UAV TO ACCURATELY INTERPOLATE AND DEPICT THE SITE.
 - UAV FLOWN BY FAA CERTIFIED PILOT AND WAS PROPERLY INSURED DURING FLIGHT.
 - CLICK HERE FOR THE WEB MODEL VIEWER OF UAV DATA

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Certification



Drawn by LD
Checked by NKH & EC
Revised on

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Project

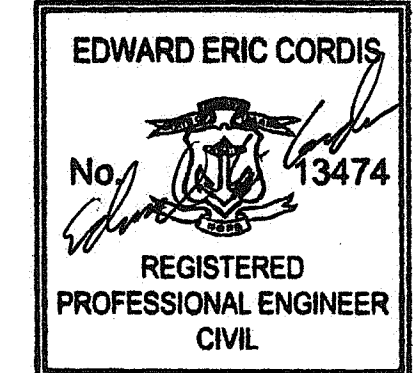
RI ARMY NATIONAL GUARD
READINESS CENTER ADDITION
106 AIRPORT ACCESS RD
MIDDLETOWN, RI 02842
Drawing Status: FOR CONSTRUCTION
Office of Water Resources
OCT 18 2021
Issued On: June 15th, 2021

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 3 2021 FILE # 21-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman
Sheet Contents: DETAILS AND NOTES

ABBREVIATIONS:
• W. WATER
• SAN. SANITARY SEWER
• ST. STORM DRAIN
• G. NATURAL GAS
• ELEC. ELECTRIC
• EXIST. EXISTING
• PR/PROP. PROPOSED
• TOW. TOP OF WALL
• BOW. BOTTOM OF WALL

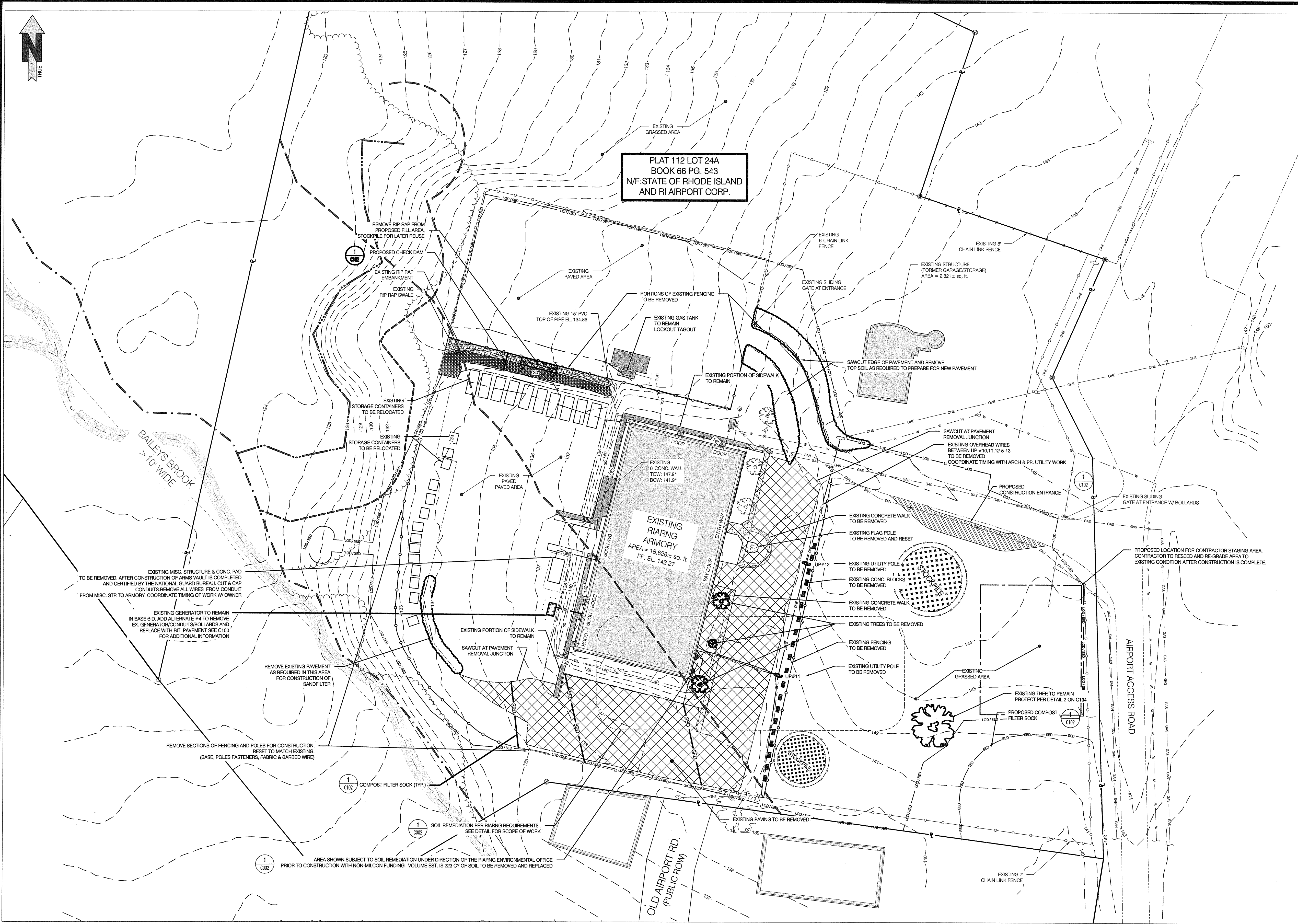
Project Number: 6554
Drawing No. SV102
Sheet 9 of 13 4 of 16

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6/17/21

PLAT 112 LOT 24A
 BOOK 66 PG. 543
 N/F: STATE OF RHODE ISLAND
 AND RI AIRPORT CORP.



HATCH LEGEND

	EXISTING AREA SUBJECT TO REMEDIATION SEE NOTE ON PLAN
	EXISTING SIDEWALK TO REMAIN

LEGEND

	BRUSH LINE (APPROXIMATE)
	DIMENSION - EXISTING
	DIMENSION - PLAN / DEED
	DIMENSION - PROPOSED
	DIMENSION - SURVEY
	EDGE OF PAVEMENT - EXISTING
	EDGE OF PAVEMENT - PROPOSED
	ELECTRIC - OVERHEAD (OHE)
	ELECTRIC - UNDERGROUND (LUGE)
	FENCE - METAL
	FENCE - WOOD
	FLOW ARROWS
	GAS (G)
	GRADE CONTOUR - EXISTING
	GRADE CONTOUR - PROPOSED
	LIMIT OF DISTURBANCE / SEDIMENT CONTROL
	PROPERTY LINE - ABUTTING
	PROPERTY LINE - EXISTING
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	SPOT GRADE - EXISTING
	SPOT GRADE - PROPOSED
	STRUCTURE, EXISTING
	STRUCTURE, PROPOSED
	SURVEY MONUMENT TO BE SET
	SURVEY MARKER TO BE SET
	TREE
	UTILITY POLE
	WATER SHUT OFF
	WETLAND FLAG LOCATION
	SOIL EVALUATION
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Drawn by LD
 Checked by NKH & EC
 Revised on

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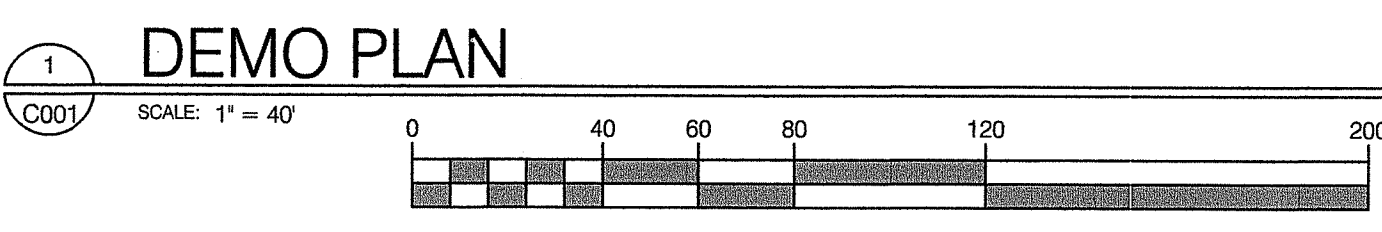
RI ARMY
 NATIONAL GUARD



READINESS
 CENTER
 ADDITION

RI Environmental Management
 GCP
 OCT 18 2021
 Office of Water Resources

106 AIRPORT ACCESS RD
 MIDDLETOWN, RI 02842
 DRAWING STATUS: UNDER WETLANDS PROGRAM
FOR CONSTRUCTION
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV - 3 2021 FILE # 21-0274
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 Daniel Freeman



ABBREVIATIONS:

W	WATER
SAN	SANITARY SEWER
SD	STORM DRAIN
G	NATURAL GAS
E/ELEC	ELECTRIC
EX/EXIST	EXISTING
PR/PROP	PROPOSED
TOW	TOP OF WALL
BOW	BOTTOM OF WALL

Sheet Contents
**DEMO AND EROSION
 CONTROL PLAN**

Project Number: 6554
 Drawing No.

C001
 Sheet 4 of 13 5 of 16

N:\PROJECTS\2020\0112_RGB-RIARMG (AIRPORT ACCESS RD)\DWG\C001.dwg 6/12/2021 Eric Cordis

SCOPE OF WORK

LEAD SOIL AND EXHAUST VENT REMEDIATION AT MIDDLETOWN ARMORY, RI ARMY NATIONAL GUARD (RIARNG)

1. OBJECTIVE: IN PREPARATION FOR CONSTRUCTION ACTIVITIES AT THE MIDDLETOWN ARMORY, THE RIARNG ENVIRONMENTAL OFFICE (RIARNG-ENV) REQUIRES REMOVAL AND DISPOSAL OF TWO INSIDE FIRING RANGE (IFR) EXHAUST VENTS WHICH ARE CONTAMINATED WITH LEAD, AND REMEDIATION OF LEAD CONTAMINATED SOIL IN AN AREA BENEATH THE TWO IFR EXHAUST VENTS.

2. LOCATION: MIDDLETOWN ARMORY, 106 AIRPORT ACCESS ROAD, MIDDLETOWN, RI (SEE FIGURE 1)

3. SCOPE:

A. SCHEDULING:
PROPOSED NEW ELECTRIC SERVICE TO EXISTING BUILDING MUST BE COMPLETED AND OPERATIONAL PRIOR TO COMMENCING THIS WORK. ELECTRICAL POWER AND COMMUNICATION LINES GOING INTO THE EXISTING BUILDING CURRENTLY RUN UNDERGROUND, DIRECTLY THROUGH THE SOIL REMEDIATION AREA. THE FIRST STEP IN THE CONSTRUCTION PROJECT ENTAILS THE CONSTRUCTION CONTRACTOR TO MOVE ALL POWER AND COMMUNICATION LINES AND MAKE THEM OPERATIONAL. THEN, EXISTING ELEC/COMM CAN BE DISCONNECTED. THE REMEDIATION CONTRACTOR SELECTED (VENDOR) MUST CLOSELY COORDINATE WITH THE RIARNG-ENV SO THAT THE REMEDIATION PROJECT IS INITIATED IMMEDIATELY AFTER THE POWER AND COMMUNICATIONS LINES ARE MOVED (AND OPERATIONAL) AND OLD EXISTING UNDERGROUND LINES DISCONNECTED. THE REMEDIATION CONTRACTOR WILL BE GIVEN APPROX. 2 WEEKS PRIOR NOTICE AS TO WHEN THE EXISTING ELECTRICAL POWER AND COMMUNICATIONS LINES ARE GOING TO BE DISCONNECTED AND MUST BE READY TO INITIATE THE REMEDIATION PROJECT WITHIN 2-DAYS NOTICE.

B. PRESSURE WASH BRICK WALL:
THE BRICK WALL BENEATH THE IFR EXHAUST VENTS IS TO BE PRESSURE WASHED TO REMOVE ANY LEAD PARTICLES THAT MAY BE ADHERED TO THE WALL. THE WATER CAN BE ALLOWED TO DRAIN ONTO THE SOIL, WHICH WILL SUBSEQUENTLY BE REMEDIATED.

C. IFR EXHAUST VENTS
1. IFR EXHAUST VENT REMOVAL AND DECONTAMINATION: REMOVAL OF THE EXHAUST VENTS IS TO TAKE PLACE PRIOR TO EXCAVATION OF SOILS. THIS WILL INCLUDE DISCONNECTING AND SECURING ALL ELECTRICAL AND CONTROL WIRING, INCLUDING THE FIRE ALARM SYSTEM. AFTER REMOVAL, THE EXHAUST VENTS ARE TO BE DECONTAMINATED USING HIGH PRESSURE WASH, AND WASH WATER IS TO BE CONTAINED, DRUMMED, TESTED AND APPROPRIATELY DISPOSED OF. A COPY OF THE BILL OF LADING/MANIFEST FOR THE LEAD IMPACTED WASH WATER, INCLUDING THE DATE OF SHIPMENT, AMOUNT, PERSON OR COMPANY RESPONSIBLE FOR THE SHIPMENT AND DISPOSAL FACILITY, WILL BE PREPARED BY THE VENDOR AND PROVIDED TO THE RIARNG-ENV PRIOR TO SHIPPING. A FINAL SHIPPING DOCUMENT SIGNED BY THE RECEIVING FACILITY WILL BE PROVIDED TO THE RIARNG-ENV WITHIN 30 DAYS OF SHIPMENT. SEE ATTACHED PHOTOS OF EXHAUST VENTS.

ii. IFR EXHAUST VENT TESTING AND DISPOSAL: DECONTAMINATED EXHAUST VENTS ARE TO BE WIPE TESTED TO DETERMINE IF LEAD HAS BEEN REMOVED, AND UPON SAMPLE CONFIRMATION, DISPOSED OF. ALL METAL GENERATED FROM THE VENTS IS TO BE RECYCLED AS SCRAP METAL. A RECEIPT FROM THE SCRAP METAL COMPANY, INCLUDING THE TOTAL WEIGHT OF SCRAP METAL RECYCLED AND AMOUNT PAID FOR THE SCRAP METAL MUST BE PROVIDED. ALL MONIES RECEIVED FOR SAID SCRAP METAL ARE TO BE DEDUCTED FROM THE INVOICE TO THE RIARNG-ENV.

iii. SITE RESTORATION: UPON REMOVAL OF THE EXHAUST VENTS, THE BUILDING OPENING IS TO BE IMMEDIATELY INFILLED WITH MASONRY TO MATCH ADJACENT WALL CONSTRUCTION.

D. SOIL REMEDIATION
1. EXCAVATION: APPROXIMATELY 225 CF OF LEAD CONTAMINATED SOIL HAS BEEN IDENTIFIED IN THE AREA BENEATH THE IFR EXHAUST VENTS. DELINEATION OF CONTAMINATED SOIL HAS BEEN COMPLETED BY THE RIARNG-ENV AS SHOWN IN FIGURE 2 AND ANALYTICAL RESULTS DISPLAYED IN TABLE 1 BELOW. THE AREA TO BE EXCAVATED WILL BE STAKED OUT PRIOR TO EXCAVATION BY THE RIARNG-ENV AND IS NOT EXPECTED TO EXTEND DEEPER THAN 2 FEET BELOW GROUND SURFACE. THE SELECTED VENDOR IS TO EXCAVATE ALL CONTAMINATED SOIL. DECOMMISSIONED UNDERGROUND UTILITY LINES ARE TO BE SEVERED AND REMOVED FROM THE EXCAVATION AREA. AT THE END OF EACH DAY, THE EXCAVATED AREA IS TO BE CORDONED OFF WITH ORANGE SNOW FENCING.

ii. DISPOSAL: ARRANGEMENTS FOR DISPOSAL OF THE EXCAVATED SOIL ARE TO BE FINALIZED PRIOR TO INITIATING EXCAVATION. TOTAL LEAD LEVELS RANGE FROM NON-DETECTED TO 505 MG/KG. TCLP LEAD ANALYSIS WAS ALL BELOW 5 MG/L, AS SUCH, THE SOIL IS NOT CONSIDERED HAZARDOUS WASTE. EXCAVATED SOIL IS TO BE LOADED INTO LINED ROLL-OFF CONTAINERS ON THE DAY OF EXCAVATION. CONFIRMATORY SAMPLING WILL BE CONDUCTED BY THE RIARNG-ENV IMMEDIATELY AFTER EXCAVATION WITH A 24 HOUR TURN-AROUND TIME ON SAMPLE RESULTS. ALL ROLL-OFF CONTAINERS WITH CONTAMINATED SOIL ARE TO BE TRANSPORTED WITHIN 24-48 HOURS OF RECEIVING FINAL CONFIRMATORY SAMPLE RESULTS AND APPROVAL FROM THE RIARNG-ENV.

A COPY OF THE BILL OF LADING/MANIFEST FOR ALL LEAD IMPACTED SOILS GENERATED BY THE REMOVAL, INCLUDING THE DATE OF SHIPMENT, AMOUNT OF MATERIAL, PERSON OR COMPANY RESPONSIBLE FOR THE SHIPMENT AND DISPOSAL FACILITY, WILL BE PREPARED BY THE VENDOR AND PROVIDED TO THE RIARNG PRIOR TO SHIPPING. A FINAL SHIPPING DOCUMENT SIGNED BY THE RECEIVING FACILITY WILL BE PROVIDED TO THE RIARNG-ENV WITHIN 30 DAYS OF SHIPMENT.

iii. BACKFILL: UPON RECEIPT OF CONFIRMATORY SAMPLE RESULTS (APPROX. 24 HRS), BACKFILLING WILL BE CONDUCTED IMMEDIATELY ASSUMING NO ADDITIONAL EXCAVATION IS NEEDED. RIARNG-ENV MUST PRE-APPROVE THE SOURCE OF THE BACKFILL MATERIAL. BACKFILL MATERIAL MUST MEET RIDEM CLEAN FILL REQUIREMENTS. BACKFILL ANALYTICAL RESULTS MUST BE SUBMITTED TO AND APPROVED BY RIARNG-ENV ONE WEEK PRIOR TO BACKFILLING.

a. BACKFILL SPECIFICATIONS: BACKFILL MATERIAL MUST BE OF A SIMILAR MAKEUP IN KIND MATERIAL, AS THE MATERIAL EXCAVATED (I.E. LOAM/SANDY LOAM/TOP SOIL, ETC.).

b. COMPACTION: COMPACTION MUST BE CARRIED OUT AS FOLLOWS:
• PLACE FILL IN 6" LIFTS, BEGINNING WITH THE LOWEST AREAS AND BUILDING UP UNTIL THE ENTIRE AREA TO BE FILLED IS AT A UNIFORM ELEVATION UP TO FINAL GRADE.
• COMPACT EACH LAYER WITH AN INDUSTRY APPROVED VIBRATORY DEVICE TO ACHIEVE MINIMUM DENSITY REQUIREMENTS AND COMPACT TO 90% OF MAXIMUM DENSITY IN 6-INCH LOOSE LAYERS.

c. EROSION CONTROL: UPON COMPLETION OF BACKFILLING, THE AREA IS TO BE COVERED WITH HAY OR OTHER APPROPRIATE MATERIAL TO PREVENT EROSION.

4. JOB CONDITIONS:
A. PROTECTION OF EXISTING IMPROVEMENTS
• APPROPRIATE PRECAUTIONS, LOGISTICS, AND WORK PLANNING SHALL BE TAKEN TO PREVENT PROJECT OPERATIONS FROM IMPACTING ADJACENT STRUCTURES, OVERHEAD HAZARDS, AND FOUNDATIONS/FOOTINGS. THIS IS TO INCLUDE THE USE OF BEST APPLICABLE EXCAVATION AND LIFTING METHODS AND EQUIPMENT. WHERE INTERSECTION WITH ADJACENT STRUCTURES, OVERHEAD HAZARDS, AND FOUNDATIONS/FOOTING IS NECESSARY, APPROPRIATE SHORING/BRACING, AND TECHNIQUES SHALL BE IMPLEMENTED TO PREVENT DAMAGE TO STRUCTURES, FOUNDATIONS, AND TO MITIGATE HAZARDS.
• PROVIDE BARRICADES, COVERINGS, AND OTHER TYPES OF PROTECTION TO PREVENT DAMAGE TO EXISTING SITE IMPROVEMENTS DESIGNATED TO REMAIN IN PLACE
• ALL STRUCTURES, OVERHEAD CONDITIONS, AND FOUNDATIONS/FOOTINGS SHALL BE IN ORIGINAL CONDITION PRIOR TO DEMOBILIZATION FROM THE JOB SITE.
• IF REQUIRED BECAUSE OF CLOSE PROXIMITY TO BUILDING FOUNDATIONS, OBTAIN AN ENGINEER'S WRITTEN APPROVAL BEFORE BACKFILLING.

B. SAFETY CONSIDERATIONS
• AT THE END OF EACH DAY, ALL OPEN EXCAVATIONS SHALL BE SECURED WITH BARRICADES AND ORANGE SNOW FENCING.

5. WORKMANSHIP: ALL WORK SHALL BE CONDUCTED BY EXPERIENCED PERSONNEL, PROFESSIONALS IN THE TRADES REQUIRED, AND COMPLETED TO A HIGH PROFESSIONAL STANDARD, MEETING STATE AND FEDERAL REQUIREMENTS. THE RIARNG POINT OF CONTACT LISTED BELOW WILL INSPECT ALL WORK AND NOTE ANY DEFICIENCIES FOR THE CONTRACTOR TO REWORK PRIOR TO FINAL ACCEPTANCE.

6. JOB-SITE MANAGEMENT: THE JOB-SITE SHALL BE MAINTAINED IN A CLEAN, SAFE, AND ORDERLY FASHION WITH BARRIERS INSTALLED TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM ENTERING OTHER AREAS OF THE FACILITY AND PRECAUTIONS TAKEN TO AVOID INJURY TO WORKERS AND FACILITY OCCUPANTS. UPON COMPLETION OF WORK, THE AREA SHALL BE CLEANED AND ALL WASTE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ANY GENERATED WASTE.

7. SPECIAL CONSIDERATIONS: CONTRACTORS WILL REQUIRE A PHOTO ID TO GAIN ACCESS TO MILITARY INSTALLATIONS AND MUST BE ESCORTED BY A RIARNG REPRESENTATIVE AT ALL TIMES WHILE ON-SITE. NEITHER CONTRACTOR NOR CONTRACTOR PERSONNEL WILL ISSUE NEWS RELEASES OR GRANT MEDIA INTERVIEWS CONCERNING WORK PERFORMED UNDER THIS CONTRACT WITHOUT SPECIFIC APPROVAL OF THE RIARNG. CONTRACTOR WILL DIRECT ALL MEDIA INQUIRIES TO THE RIARNG.

8. TERMS AND CONDITIONS

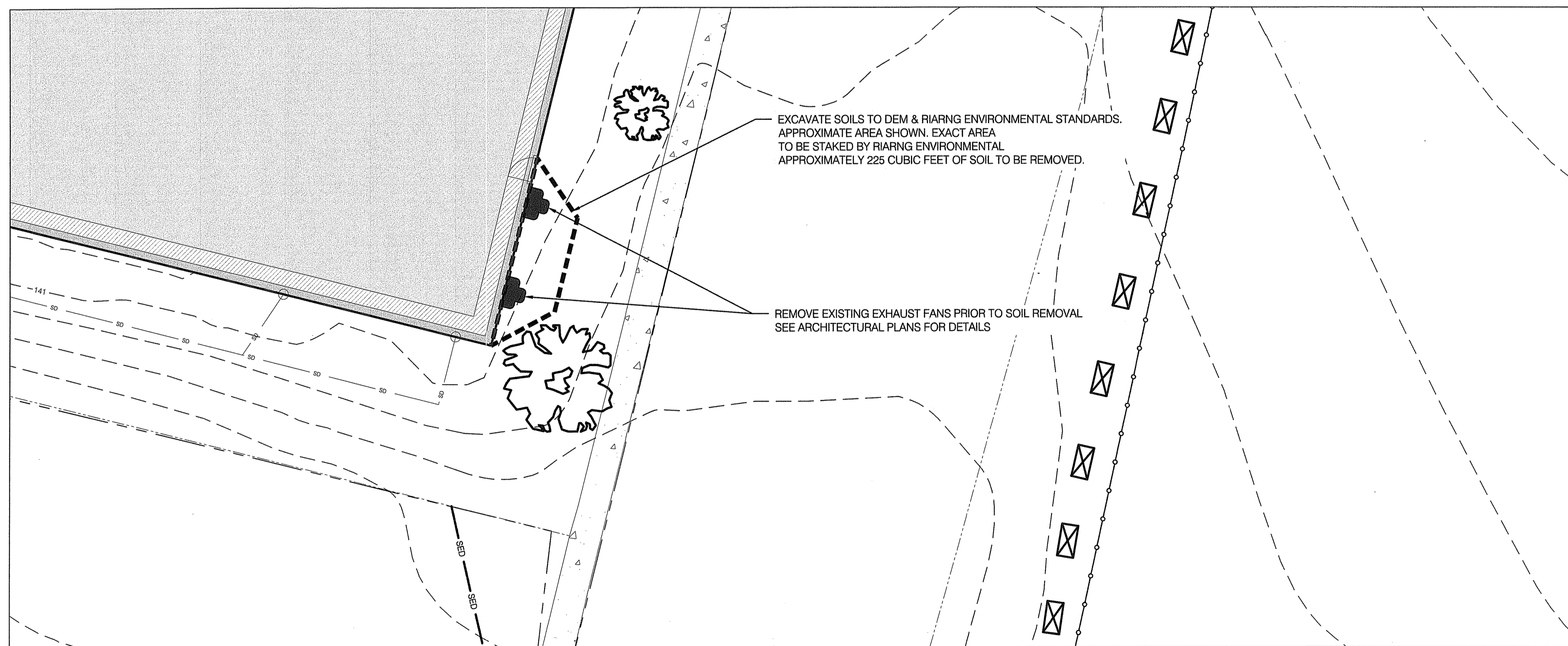
A. ALL DOCUMENTATION SHALL CLEARLY STATE THE FOLLOWING:

BILLING ADDRESS: RHODE ISLAND ARMY NATIONAL GUARD
JOINT FORCE HEADQUARTERS FMO-ENVIRONMENTAL BRANCH
2841 SOUTH COUNTY TRAIL, BUILDING 330 EAST GREENWICH, RI 02818

SITE LOCATION: RIARNG - MIDDLETOWN ARMORY
106 AIRPORT ACCESS ROAD, MIDDLETOWN, RI

B. WORK WILL BE COORDINATED WITH THE RIARNG-ENV AND TAKE PLACE DURING THE RIARNG NORMAL WORK HOURS OF 7:30 AM - 4:45 PM TUESDAY THROUGH FRIDAY.

C. WORK COMPLETED WILL BE BILLED ON A DETAILED ELECTRONIC INVOICE AND EMAILED TO THE BELOW CONTACTS AT THE RIARNG-ENV. INVOICES WILL BE PROVIDED AS AN ADOBE ACRABAT PDF. ALL INVOICES MUST BE SUBMITTED BY EMAIL WITHIN TEN (10) BUSINESS DAYS OF THE REMEDIATION.



1 LEAD SOIL ABATEMENT PLAN
SCALE: 1" = 10'

- ABBREVIATIONS:
- W: WATER
 - SAN: SANITARY SEWER
 - SD: STORM DRAIN
 - G: NATURAL GAS
 - E: ELECTRIC
 - E/EX: EXISTING ELECTRIC
 - P/PROP: PROPOSED ELECTRIC
 - TOW: TOP OF WALL
 - BOW: BOTTOM OF WALL

LEGEND

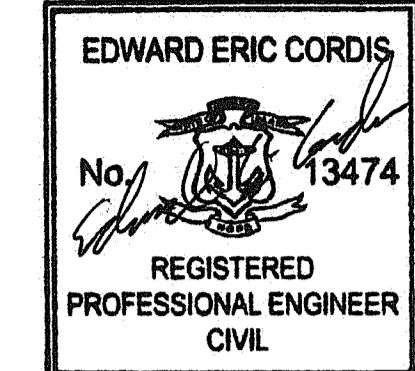
- BRUSH LINE (APPROXIMATE)
- 100.00' DIMENSION - EXISTING
- 100.00' (D) DIMENSION - PLAN / DEED
- 100.00' DIMENSION - PROPOSED
- 100.00' (S) DIMENSION - SURVEY
- EDGE OF PAVEMENT - EXISTING
- EDGE OF PAVEMENT - PROPOSED
- OHE: ELECTRIC - OVERHEAD (OHE)
- ETC: ELECTRIC, TELEPHONE, CABLE (ETC)
- UGE: ELECTRIC - UNDERGROUND (UGE)
- FENCE - METAL
- FENCE - WOOD
- FLOW ARROWS
- GAS (G)
- 100.00' GRADE CONTOUR - EXISTING
- 100.00' GRADE CONTOUR - PROPOSED
- LOD / SED: LIMIT OF DISTURBANCE / SEDIMENT CONTROL
- PROPERTY LINE - ABUTTING
- PROPERTY LINE - EXISTING
- SAN: SANITARY SEWER (S)
- SED: SEDIMENT CONTROL
- SETBACKS
- SD: STORM DRAIN (SD)
- WETLAND EDGE (RIDEM 05-0412)
- 50' PERIMETER (RIDEM 05-0412)
- 200' PERIMETER (RIDEM 05-0412)
- 50' WETLAND PERIMETER
- 200' WETLAND PERIMETER
- VEGETATED WETLANDS
- RIVERBANK WETLANDS
- BAILEYS BROOK
- GROUND CONTROL POINT
- CATCH BASIN
- DRILL HOLE
- ELECTRIC BOX (ETC)
- FIRE HYDRANT
- GATE VALVE
- GRANITE BOUND, EXISTING
- LOW WATER LINE
- LIMIT OF DISTURBANCE MARKER
- MANHOLE (MH TYPE)
- REBAR / STEEL PIPE FOUND
- SPIKE
- X 5.10 SPOT GRADE - EXISTING
- X 6.60 SPOT GRADE - PROPOSED
- STRUCTURE, EXISTING
- STRUCTURE, PROPOSED
- SURVEY MONUMENT TO BE SET
- WATER SHUT OFF
- WETLAND FLAG LOCATION
- SOIL EVALUATION
- SOIL EVALUATION BY OTHERS

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Certification

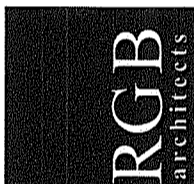


6/14/21

Drawn by LD
Checked by NKH & EC

Revised on

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Architecture - Project Management - Interior Design

Project

RI ARMY NATIONAL GUARD



READINESS CENTER ADDITION

106 AIRPORT ACCESS RD
MIDDLETOWN, RI 02842

Drawing Status: FOR CONSTRUCTION
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 3 2021 FILE # 21-0274
NO CHANGES ALLOWED WITHOUT PROGR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

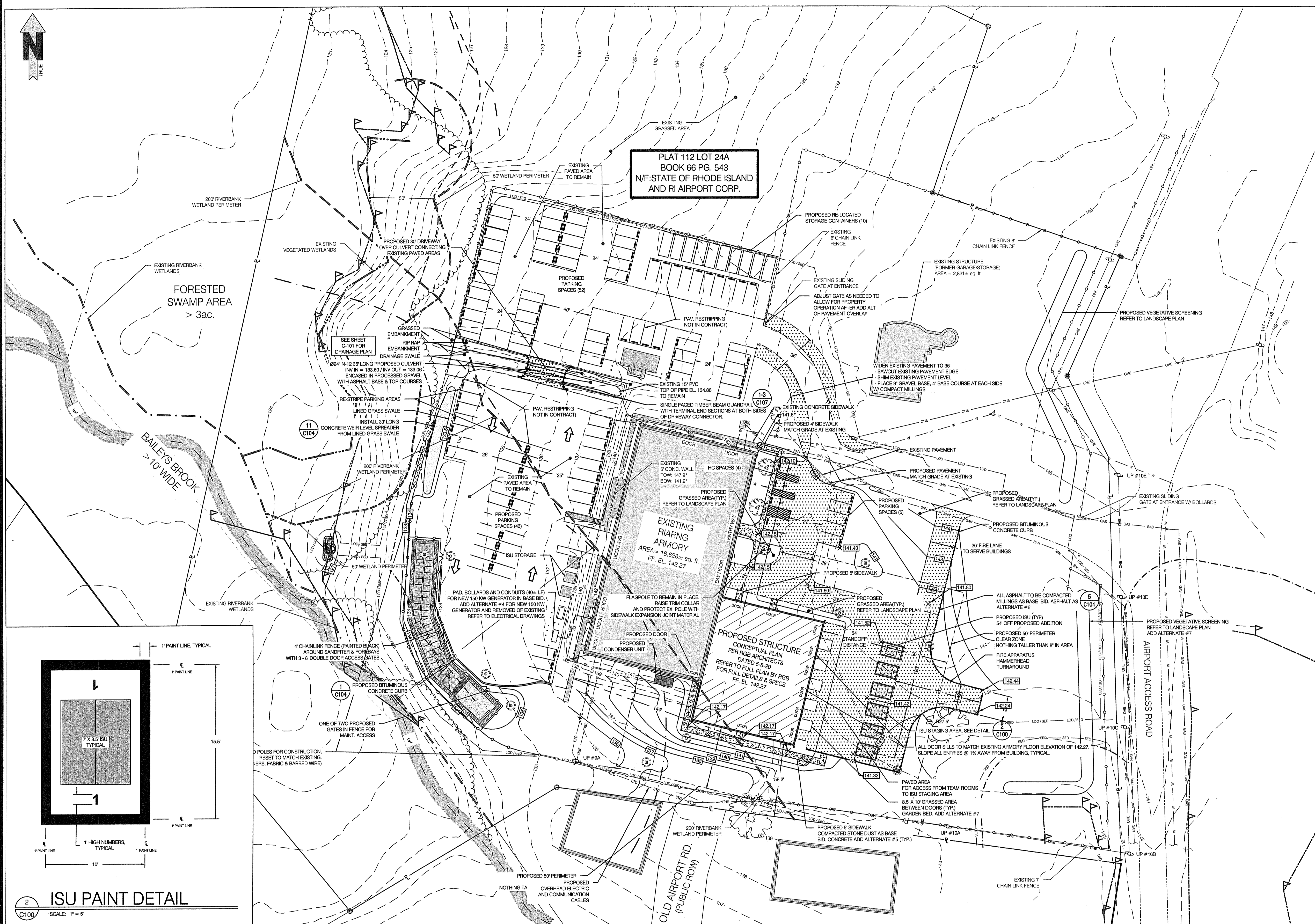
Issued On: 11/18/2021
By: [Signature]

Sheet Contents
LEAD SOIL ABATEMENT PLAN

Project Number: 6554

Drawing No. C002

Sheet 5 of 13 6 of 16



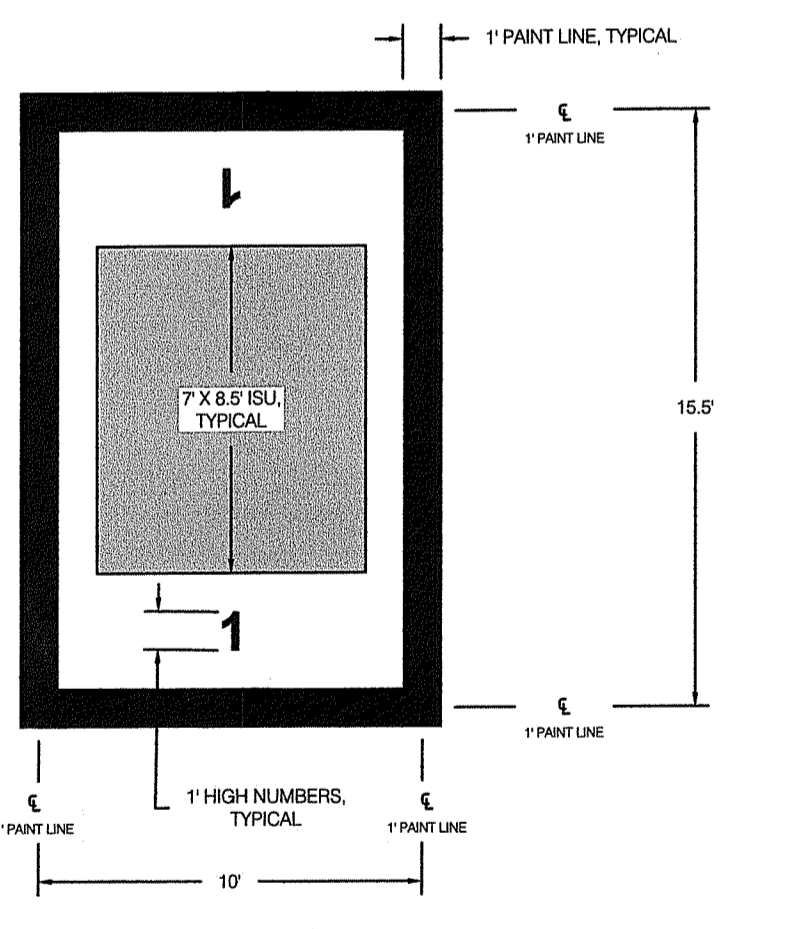
PLAT 112 LOT 24A
BOOK 66 PG. 543
N/F STATE OF RHODE ISLAND
AND RI AIRPORT CORP.

FORESTED SWAMP AREA
> 3ac.

BAILEY'S BROOK
> 10' WIDE

EXISTING RIANG ARMORY
AREA = 18,628 ± sq. ft.
FF. EL. 142.27

PROPOSED STRUCTURE
CONCEPTUAL PLAN
DATED 5-8-20
REFER TO FULL PLAN BY RGB
FOR FULL DETAILS & SPECS
FF. EL. 142.27



ISU PAINT DETAIL
SCALE: 1" = 8'

- SITE NOTES:**
- ZONING INFORMATION SHOW FROM RECORD INFORMATION, MAPS AND / OR GIS. ZONING DATA MAY VARY BASED ON USE, LOT SIZE, ORIENTATION AND OTHER FACTORS AND IS SHOWN FOR REFERENCE INFORMATION ONLY.
 - ZONING DATA MUST BE CONFIRMED WITH ZONING OFFICIAL AND / OR LEGAL COUNSEL FOR USE IN DESIGN OR PERMITTING.
 - COORDINATE SYSTEM IS NAD83 / NAVD 88.
 - TOPOGRAPHY IS MIX OF ON GROUND SHOTS, UAV DATA AND RI SPRING 2011 LIDAR.
 - AREA OF CONCERN: UAV DERIVED POINT CLOUD WITH GPS SHOTS
 - OUTSIDE AREA OF CONCERN: SPRING 2011 LIDAR WITH GPS SHOTS
 - ALL PROPOSED ITEMS MUST BE LAID OUT BY REGISTERED SURVEYOR AS NOTED.
 - PLAN IS NOT AS-BUILT UTILITY PLAN.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT OF PROBATE SEARCH, AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
 - LOCATION OF SUBSURFACE MAINS, SURFACE FEATURES, AND LATERALS ARE OMITTED. CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. DIG SAFE TEL. # 1-800-344-7233 (1-800-DIG-SAFE).
 - WATER - SURFACE FEATURES SHOWN. UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 - SEWER - SURFACE FEATURES SHOWN. UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 - GAS - SURFACE FEATURES SHOWN. UNDERGROUND SHOWN PER DIG SAFE AND PLAN REF. 1
 - ELECTRIC - SURFACE/OVERHEAD FEATURES SHOWN. UNDERGROUND SHOWN PER DIG SAFE
 - STORM DRAIN - SURFACE FEATURES SHOWN. UNDERGROUND SHOWN PER PLAN REF. 1 AND FIELD INVESTIGATION
 - NOTE: ALL SURFACE, SUBSURFACE AND OVER HEAD UTILITY FEATURES MEET QUALITY LEVEL C AS PRESCRIBED BY ASCE 38-02.
 - REFERENCE PREVIOUS RIDEM APPLICATION # 15-0128, 17-0015
 - ADJUTING PROPERTY LINE INFORMATION SHOWN PER TOWN OF MIDDLETOWN GIS
 - REMOVED PER REV. 1.
 - SITE IS LOCATED IN SURFACE WATER PROTECTION AREA
 - SITE MAY BE EXEMPT FROM MUNICIPAL ZONING REQUIREMENTS DUE TO STATE OWNERSHIP
 - ELEVATIONS SHOWN WITH* PER UAV DATA
 - PREVIOUS RIDEM FILE # 05-0412

PROPOSED SITE PLAN SUMMARY

THE OVERALL GOAL IS TO CONSTRUCT A NEW ADDITION TO THE SOUTHEAST OF THE EXISTING ARMORY. CONCEPTUAL PLANS PER RGB ARCHITECTS IS SHOWN ON SHEET C-100.

WITH THIS ADDITION, WE HAVE PROPOSED A FIRE LANE ACCESS MILLINGS/PAVEMENT STRIP OUTSIDE OF THE ISU IN FRONT OF THE BUILDING ADDITION THAT CONNECTS TO THE EXISTING TRANCE OF THE ARMORY. THE NORTHERN PARKING LOT WILL BECOME THE RELOCATED AREA FOR 10 STORAGE CONTAINERS AS WELL AS ACT AS AN ENTRANCE TO THE REAR PARKING AREA, WHICH CAN ACCOMMODATE FIRE AND SEMI TRUCKS. THE GOAL IS FOR TRAFFIC TO FLOW INTO THE NORTHERN PARKING AREA THEN CIRCULATE AROUND THE REAR LOT.

AT TOTAL THE REAR, NORTH AND FRONT ENTRY PARKING AREAS CAN ACCOMMODATE A TOTAL OF 117 PARKING SPACES, FOUR (4) OF WHICH ARE HANDICAP SPACES.

A SIDEWALK IS PROPOSED ALONG THE SOUTHERN SIDE OF THE PROPOSED ADDITION TO CONNECT TO THE EXISTING WALKWAY WEST OF THE EXISTING STRUCTURE AND EAST OF THE PROPOSED ADDITION.

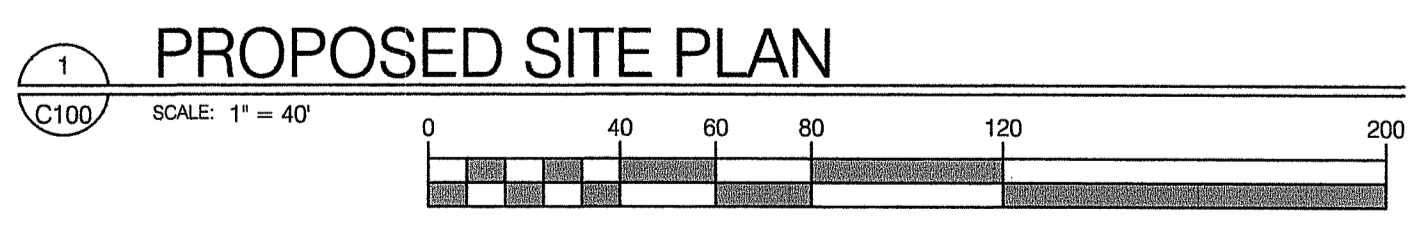
RIDEM WETLANDS AND STORMWATER PERMITTING REVIEW TIME.

CURRENT RIDEM REVIEW TIMES FOR WETLANDS APPLICATIONS AND STORMWATER RIDES REVIEW CAN BE IN EXCESS OF 6 MONTHS. IT IS RECOMMENDED THAT PERMIT SUBMISSIONS TO RIDEM BE SUBMITTED AS SOON AS PRACTICAL TO ALLOW FOR CURRENT REVIEW TIMES WITHIN THE PROPOSED PROJECT TIMELINE.

PROPOSED COVERAGE

LOT SIZE	501,244 SQ FT	100%
IMPERVIOUS (BUILDINGS)	30,140 SQ FT	6.01%
IMPERVIOUS (CONCRETE & PAVING)	89,443 SQ FT	17.84%
PERVIOUS	381,662 SQ FT	76.14%

107 TOTAL PARKING SPACES, 4 ADA ACCESSIBLE (1 VAN / 3 STANDARD)



PROPOSED SITE PLAN
SCALE: 1" = 40'

- ABBREVIATIONS:**
- W: WATER
 - SAN: SANITARY SEWER
 - SD: STORM DRAIN
 - G: NATURAL GAS
 - E/ELEC: ELECTRIC
 - E/EXIST: EXISTING
 - P/PROP: PROPOSED
 - TOW: TOP OF WALL
 - BOW: BOTTOM OF WALL

NEI
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Certification

EDWARD ERIC CORDIS
No. 13474
REGISTERED PROFESSIONAL ENGINEER CIVIL

6/14/21

HATCH LEGEND

- PROPOSED PAVEMENT MILLINGS
ADD ALTERNATE FOR BITUMINOUS PAVING
- PROPOSED STONE DUST SIDEWALK
ADD ALTERNATE FOR CONCRETE
- EXISTING SIDEWALK TO REMAIN

Drawn by LD
Checked by NKH & EC
Revised on

LEGEND

- BRUSH LINE (APPROXIMATE)
- DIMENSION - EXISTING
- DIMENSION - PLAN / DEED
- DIMENSION - PROPOSED
- DIMENSION - SURVEY
- EDGE OF PAVEMENT - EXISTING
- EDGE OF PAVEMENT - PROPOSED
- ELECTRIC - OVERHEAD (OHE)
- ELECTRIC, TELEPHONE, CABLE (ETC)
- ELECTRIC - UNDERGROUND (UGE)
- FENCE - METAL
- FENCE - WOOD
- FLOW ARROWS
- GAS (G)
- GRADE CONTOUR - EXISTING
- GRADE CONTOUR - PROPOSED
- LOD / SED
- LIMIT OF DISTURBANCE / SEDIMENT CONTROL
- PROPERTY LINE - ABUTTING
- PROPERTY LINE - EXISTING
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- SED
- SED
- SETBACKS
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- 50' WETLAND PERIMETER
- 200' WETLAND PERIMETER
- VEGETATED WETLANDS
- RIVERBANK WETLANDS

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Architecture - Project Management - Interior Design

RI ARMY NATIONAL GUARD

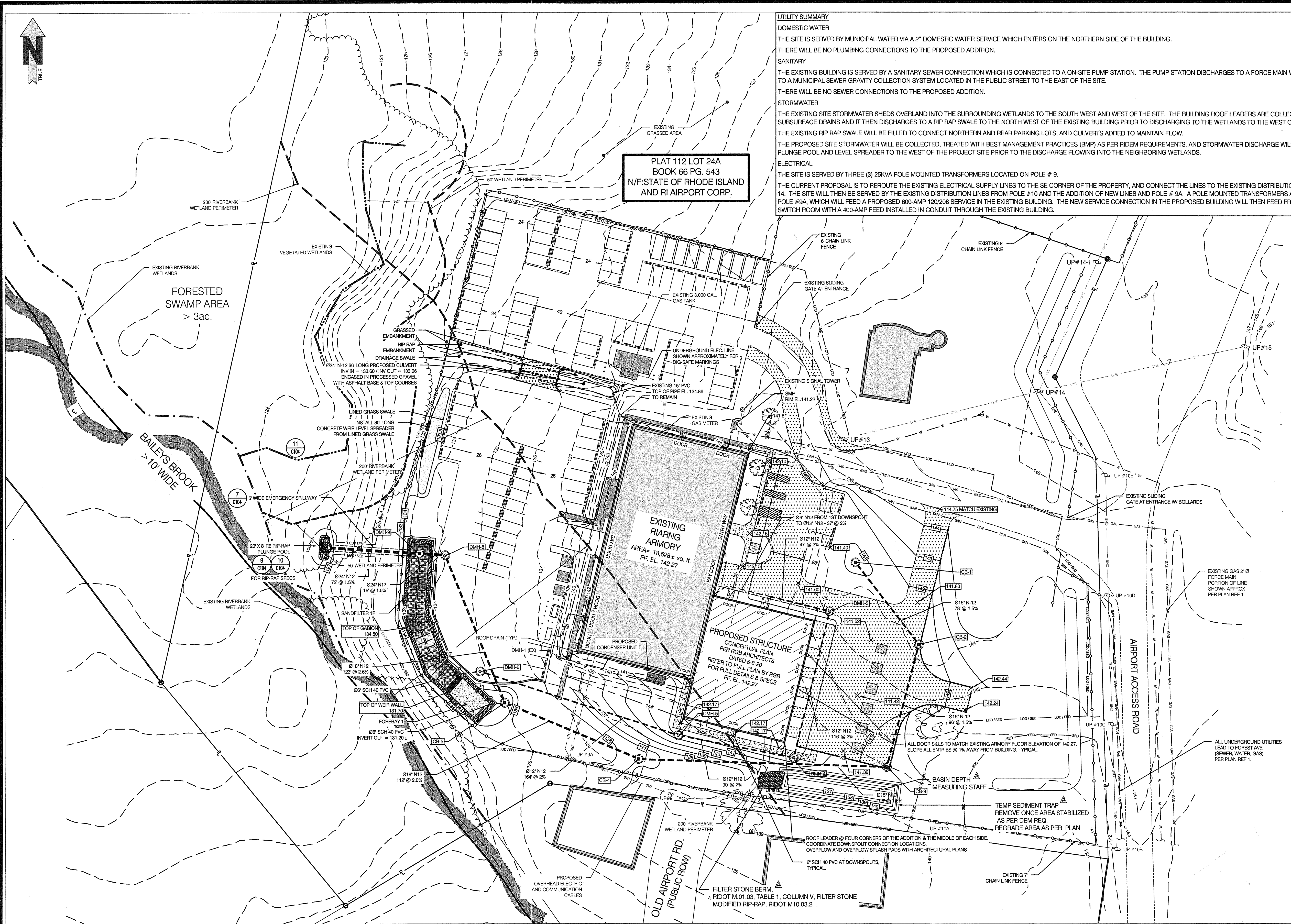


READINESS CENTER ADDITION

106 AIRPORT ACCESS RD
MIDDLETOWN, RI 02842
Drawing Status
FOR CONSTRUCTION

Issued On: June 15th, 2021
Sheet Contents
PROPOSED SITE PLAN

Project Number: 6554
Drawing No.
C100
Sheet 8 of 13 7 of 16



PLAT 112 LOT 24A
BOOK 68 PG. 543
N/F: STATE OF RHODE ISLAND
AND RI AIRPORT CORP.

UTILITY SUMMARY

DOMESTIC WATER
THE SITE IS SERVED BY MUNICIPAL WATER VIA A 2" DOMESTIC WATER SERVICE WHICH ENTERS ON THE NORTHERN SIDE OF THE BUILDING. THERE WILL BE NO PLUMBING CONNECTIONS TO THE PROPOSED ADDITION.

SANITARY
THE EXISTING BUILDING IS SERVED BY A SANITARY SEWER CONNECTION WHICH IS CONNECTED TO AN ON-SITE PUMP STATION. THE PUMP STATION DISCHARGES TO A FORCE MAIN WHICH IS CONNECTED TO A MUNICIPAL SEWER GRAVITY COLLECTION SYSTEM LOCATED IN THE PUBLIC STREET TO THE EAST OF THE SITE. THERE WILL BE NO SEWER CONNECTIONS TO THE PROPOSED ADDITION.

STORMWATER
THE EXISTING SITE STORMWATER SHEDS OVERLAND INTO THE SURROUNDING WETLANDS TO THE SOUTH WEST AND WEST OF THE SITE. THE BUILDING ROOF LEADERS ARE COLLECTED WITH SUBSURFACE DRAINS AND IT THEN DISCHARGES TO A RIP RAP SWALE TO THE NORTH WEST OF THE EXISTING BUILDING PRIOR TO DISCHARGING TO THE WETLANDS TO THE WEST OF THE SITE. THE EXISTING RIP RAP SWALE WILL BE FILLED TO CONNECT NORTHERN AND REAR PARKING LOTS, AND CULVERTS ADDED TO MAINTAIN FLOW. THE PROPOSED SITE STORMWATER WILL BE COLLECTED, TREATED WITH BEST MANAGEMENT PRACTICES (BMP) AS PER RIDEM REQUIREMENTS, AND STORMWATER DISCHARGE WILL OCCUR WITH A PLUNGE POOL AND LEVEL SPREADER TO THE WEST OF THE PROJECT SITE PRIOR TO THE DISCHARGE FLOWING INTO THE NEIGHBORING WETLANDS.

ELECTRICAL
THE SITE IS SERVED BY THREE (3) 25KVA POLE MOUNTED TRANSFORMERS LOCATED ON POLE # 9. THE CURRENT PROPOSAL IS TO REROUTE THE EXISTING ELECTRICAL SUPPLY LINES TO THE SE CORNER OF THE PROPERTY, AND CONNECT THE LINES TO THE EXISTING DISTRIBUTION SYSTEM AT POLE # 14. THE SITE WILL THEN BE SERVED BY THE EXISTING DISTRIBUTION LINES FROM POLE #10 AND THE ADDITION OF NEW LINES AND POLE # 9A. A POLE MOUNTED TRANSFORMER ARE TO BE ADDED TO POLE #9A, WHICH WILL FEED A PROPOSED 600-AMP 120/208 SERVICE IN THE EXISTING BUILDING. THE NEW SERVICE CONNECTION IN THE PROPOSED BUILDING WILL THEN FEED FROM THE EXISTING SWITCH ROOM WITH A 400-AMP FEED INSTALLED IN CONDUIT THROUGH THE EXISTING BUILDING.

NEI
Narragansett Engineering Inc.
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Certification

EDWARD ERIC CORDIS
No. 13474
REGISTERED PROFESSIONAL ENGINEER
CIVIL

HATCH LEGEND

- PROPOSED PAVEMENT MILLINGS
ADD ALTERNATE FOR BITUMINOUS PAVING
- PROPOSED STONE DUST SIDEWALK
ADD ALTERNATE FOR CONCRETE
- EXISTING SIDEWALK TO REMAIN

Drawn by LD
Checked by NKH & EC
Revised on

LEGEND

- BRUSH LINE (APPROXIMATE)
- DIMENSION - EXISTING
- DIMENSION - PLAN / DEED
- DIMENSION - PROPOSED
- DIMENSION - SURVEY
- EDGE OF PAVEMENT - EXISTING
- EDGE OF PAVEMENT - PROPOSED
- ELECTRIC - OVERHEAD (OHE)
- ELECTRIC, TELEPHONE, CABLE (ETC)
- ELECTRIC - UNDERGROUND (UGE)
- FENCE - METAL
- FENCE - WOOD
- FLOW ARROWS
- GAS
- GAS (G)
- GRADE CONTOUR - EXISTING
- GRADE CONTOUR - PROPOSED
- LIMIT OF DISTURBANCE / SEDIMENT CONTROL
- PROPERTY LINE - ABUTTING
- PROPERTY LINE - EXISTING
- SANITARY SEWER (S)
- SEDIMENT CONTROL
- SETBACKS
- STONE WALL
- STORM DRAIN (SD) EXISTING
- STORM DRAIN / DRAIN LINE PROPOSED
- WETLAND EDGE (RIDEM 05-0412)
- 50' PERIMETER (RIDEM 05-0412)
- 200' PERIMETER (RIDEM 05-0412)
- 50' WETLAND PERIMETER
- 200' WETLAND PERIMETER
- VEGETATED WETLANDS
- RIVERBANK WETLANDS
- BAILEYS BROOK
- GROUND CONTROL POINT (GCP)
- CATCH BASIN
- DRIILL HOLE
- ELECTRIC BOX (ETC)
- FIRE HYDRANT
- GATE VALVE
- GRANITE BOUND, EXISTING
- LOW WATER LINE
- MANHOLE (MH-TYPE)
- REBAR / STEEL PIPE FOUND
- SPIKE
- SPOT GRADE - EXISTING
- SPOT GRADE - PROPOSED
- STRUCTURE, EXISTING
- STRUCTURE, PROPOSED
- SURVEY MONUMENT TO BE SET
- SURVEY MARKER TO BE SET
- TREE
- UTILITY POLE
- WATER SHUT OFF
- WETLAND FLAG LOCATION
- SOIL EVALUATION
- SOIL EVALUATION BY OTHERS

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RI ARMY NATIONAL GUARD

READINESS CENTER ADDITION

RI Environmental Management
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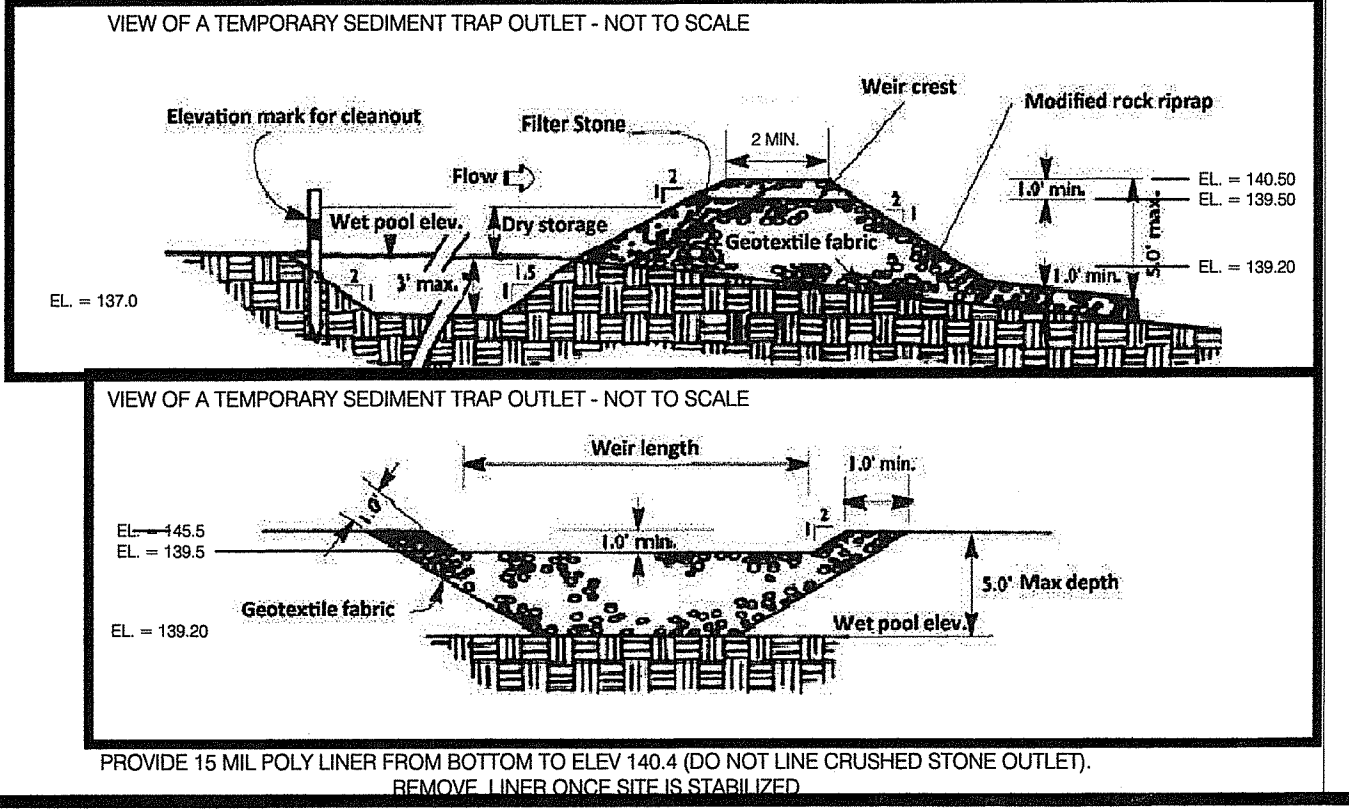
Drawing Status: **FOR CONSTRUCTION**
NOV - 3 2021 FILE # 21-0274
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
PROVIDER AND MUST BE AT CONSTRUCTION SITE

Issued On: June 15th, 2021
REV A - ADDED TEMP SED TRAP 10-15-21

Sheet Contents
PROPOSED DRAINAGE & GRADING PLAN

Project Number: 6554
Drawing No. **C101**
Sheet 7 of 13 8 of 16

CB-1	141.88	162976.1130	386969.7230	NONE	139.24	
CB-2	141.48	162938.6743	387021.8631	138.04	138.04	
CB-3	140.52	162810.2767	386995.3184	136.62	136.62	NORTHING & EASTING IS CENTER OF STRUCTURE / CENTER OF DUAL GRATES
CB-4	137.00	162816.8633	386782.4797	133.55	133.55	
CB-5	133.90	162862.6871	386683.0358	131.31	132.10 (1)	132.10 (2)
CB-7	DELETED					
DMH-1 (EX)	139.46	162899.1020	386727.9595	136.65 (1) 135.75 (2)	136.05	EXISTING DRAINAGE MAN HOLE
DMH-2 (EX)	140.49	163095.2690	386777.6445	133.54 (1) 133.59 (2) 133.8 (3)	133.94	EXISTING DRAINAGE MAN HOLE EXISTING DRAINAGE SWALE
DMH-3	141.54	162936.2619	386948.4786	138.54	138.54	
DMH-4	142.08	162817.8514	386919.1025	136.14	136.14	
DMH-5	141.88	162835.9870	386824.7804	134.34 (1) 134.34 (2)	134.34	
DMH-6	134.80	162888.0077	386682.9330	131.00	131.00	
DMH-8	134.10	162982.3068	386634.7442	127.80	127.70 (1) 127.70 (2)	
DMH-9	133.9	162983.7062	386513.7975	127.47 (1) 128.5 (2) 131.80 (3)	127.47	



PROPOSED DRAINAGE & GRADING PLAN

SCALE: 1" = 40'

0 40 60 80 120 160 200

ABBREVIATIONS:

- W: WATER
- SAN: SANITARY SEWER
- SD: STORM DRAIN
- G: NATURAL GAS
- E/ELEC: ELECTRIC
- E/EXIST: EXISTING
- P/P/PROP: PROPOSED
- TOW: TOP OF WALL
- BOW: BOTTOM OF WALL

GENERAL NOTES:

- THE STATE OF RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, LATEST REVISION. THE 2004 EDITION OF THE STANDARD SPECIFICATION MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO APPLY FOR AND OBTAIN ANY AND ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH ARCHITECT OR ENGINEER AS NECESSARY.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE JOB SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ANY EXPOSED EXCAVATED AREAS IN ACCORDANCE WITH OSHA STANDARDS.
- IN THE CASE THAT ANY DEVIATION / ALTERATION / OR IMPROVEMENT FROM THE APPROVED PLANS IS NECESSARY THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER PRIOR TO OCCURRENCE OF DEVIATION
- ALL WORK SHALL BE LIMITED TO THE AREAS WITHIN THE LIMIT OF DISTURBANCE DISPLAYED ON THESE PLANS OR PROPERTY LINE IF LIMIT OF DISTURBANCE IS UNCLEAR. ANY AREA DISTURBED OUTSIDE OF THE LIMIT OF DISTURBANCE SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER OR ENGINEER, AND REFERRED TO THE ENGINEER'S SATISFACTION
- ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATION SHOWN ON THESE PLANS AND/OR ACCOMPANYING SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF ANY CONFLICTS WITH EXISTING CONDITIONS OR PROPOSED CONDITIONS EXIST. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED
- EXCAVATED ROCK SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE OWNER. SUITABLE ROCK MAY BE UTILIZED IN FILL AREAS WITH WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVES
- DEBRIS, ORGANICS AND OTHER UNSUITABLE MATERIALS UNCOVERED DURING THE COURSE OF SITE EXCAVATION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES THAT SERVE THE SITE AND NEIGHBORING AREAS. IF ANY DAMAGE OCCURS TO EXISTING UTILITIES IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY ALL COSTS ASSOCIATED WITH REPAIR OF UTILITIES AS DIRECTED BY THE ENGINEER, UTILITY OWNER, OR GOVERNING AGENCY
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. 'DIG SAFE' AND PRIVATE COMPANY SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION
- NO EXCAVATION SHALL PROCEED UNTIL UTILITY COMPANIES ARE NOTIFIED IN ADVANCE
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING TREES
- CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS WITH APPROPRIATE SEED MIXTURES INCLUDING REGRADING & RESEEDING STAGING AREA BACK TO EXISTING CONDITIONS AFTER CONSTRUCTION IS COMPLETE

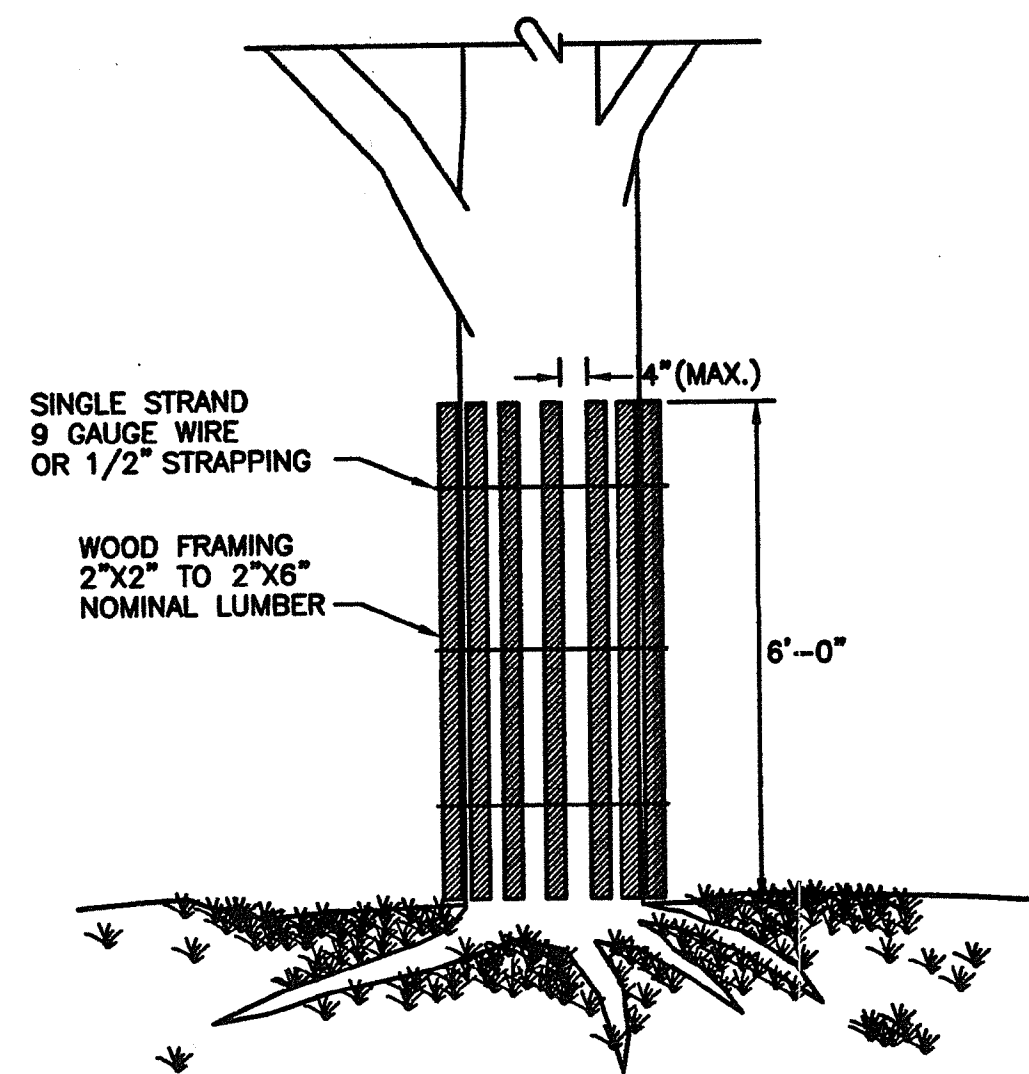
GRADING AND UTILITIES NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED WORK SHOWN ON THESE PLANS DO NOT CONFLICT WITH ANY EXISTING CONDITIONS OR OTHER PROPOSED WORK. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH WORK, THE LOCATION, ELEVATION, SIZE AND MATERIAL SHALL BE ACCURATELY DETERMINED BY THE CONTRACTOR IMMEDIATELY AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL NOT CONTINUE WORK ON AFFECTED UTILITIES UNTIL THE CONFLICT IS RESOLVED
- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINE AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ADJUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS
- ALL UTILITY COVERS, GRATES, AND THE LIKE SHALL BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH. FIRM ELEVATIONS ARE APPROXIMATE AND FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH GRADING
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANY, AS REQUIRED.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADING. ANY DAMAGE RESULTING TO THESE FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE
- ALL WATER WORKS SHALL HAVE 5 FEET OF COVER
- GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY UTILITY COMPANY
- DURING CONSTRUCTION CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NOT ADDITIONAL COST TO THE OWNER
- EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINE OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATION AT NO COST TO THE OWNER
- PITCH EVENLY BETWEEN ALL SPOT GRADES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY, ROCKS, DEBRIS, ORGANICS, OR THE LIKE UNCOVERED IN THE COURSE OF WORK

EROSION AND SEDIMENT CONTROL NOTES:

- ALL EROSION CONTROL SHALL BE IN ACCORDANCE WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON THESE PLANS
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ONCE WEEKLY OR AFTER EVERY RAINFALL EVENT GREATER THAN 0.26 INCHES
- SEDIMENT BUILD UP GREATER THAN ONE-HALF THE BARRIER HEIGHT SHALL BE REMOVED AND DISPOSED OF PROPERLY AS REQUIRED. ANY SEDIMENT BUILD UP OUTSIDE OF THE SEDIMENT BARRIER SHALL BE REMOVED IMMEDIATELY
- CONTRACTOR SHALL MAINTAIN A RESERVE OF EROSION CONTROL MATERIALS FOR EMERGENCY USE AND ROUTINE MAINTENANCE
- THE CONTROLS SHOWN ON THESE PLANS ARE INTENDED AS MINIMUM MEASURES. ADDITIONAL MEASURES MAY BE REQUIRED AND SHALL BE IMPLEMENTED BY THE CONTRACTOR IF WARRANTED OR REQUESTED BY THE OWNER, OWNER'S REPRESENTATIVE, ENGINEER, OR ANY APPLICABLE REGULATING AGENCY.
- PRIOR TO THE START OF ANY LAND CLEARING / GRUBBING OR OTHER CONSTRUCTION ACTIVITY THE PERIMETER CONTROLS SHALL BE PLACED, PROPERLY CONSTRUCTED AND CLEARLY VISIBLE. THESE CONTROLS SHALL REPRESENT THE LIMITS OF WORK AND WORKERS SHALL BE NOTIFIED THAT NO CONSTRUCTION ACTIVITY IS ALLOWED BEYOND THESE CONTROLS
- IF OR AS POSSIBLE CONSTRUCTION SHALL BE PHASED TO LIMIT TO THE MAXIMUM EXTENT PRACTICABLE THE AMOUNT OF EXPOSED SOILS. ALL DISTURBED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 DAYS OF COMPLETION OF GRADING ACTIVITIES
- THE CONTRACTOR SHALL SCHEDULE WORK IN A WAY TO ALLOW POSITIVE DRAINAGE OF SUBGRADE THROUGHOUT CONSTRUCTION
- CONSTRUCTION ENTRANCES PER RIDOT STANDARD DETAIL 9.9.0 SHALL BE EMPLOYED AT ALL POINTS OF INGRESS AND EGRESS FROM THE SITE
- TEMPORARY DIVERSIONS, SEDIMENT BASINS, AND TEMPORARY SWALES MAY BE USED AND SHALL BE SIZED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK
- CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED PER RIDOT STANDARD DETAIL 9.8.0 IN GRASSED AREAS OR SEDIMENT BAGS IN PAVED AREAS
- TEMPORARY SEDIMENT STOCK PILES SHALL BE KEPT MOIST AND COVERED AT ALL TIMES. CALCIUM CHLORIDE SHALL ONLY BE USED IF AN APPROVAL FROM THE TOWN/CITY OR OTHER APPLICABLE AGENCY HAS BEEN GRANTED
- DEWATERING FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREAS AND DISCHARGED INTO A DEWATERING BASIN PER RIDOT STANDARD 9.7.0, HAYBALE CORRALS, OR SEDIMENTATION BAGS. THE CONTRACTOR SHALL ENSURE THAT NO CONTAMINANTS IS PRESENT IN ANY WATERS PRIOR TO DISCHARGE FROM SITE AND IS RESPONSIBLE FOR ALL ENGINEERING, EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR THE SITE WATER REMOVAL DURING CONSTRUCTION
- CONSTRUCTION WASTE MATERIALS SHALL BE KEPT ON-SITE AND DISPOSED OF IN AN APPROVED AND APPROPRIATE MANNER IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.
- RIPRAP SHALL BE USED WHERE NECESSARY TO CONTROL EXIT VELOCITIES
- NON MOBILE (I.E. TRACKED MACHINERY) SHALL BE MAINTAINED WITHIN THE LIMIT OF DISTURBANCE DEFINED BY SEDIMENT BARRIER
- NEWLY VEGETATED AREAS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE ESTABLISHMENT OF APPROPRIATE VEGETATION
- THE CONTRACTOR SHALL NOT REMOVE ANY EROSION AND SEDIMENTATION CONTROL MEASURES UNTIL FINAL ACCEPTANCE OF THE SITE HAS OCCURRED
- ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO THE FINAL SITE ACCEPTANCE

NOTE: THE USE OF HAY IS NOT ALLOWED. ALL REFERENCES TO HAY, SHALL BE TAKEN TO MEAN STRAW.

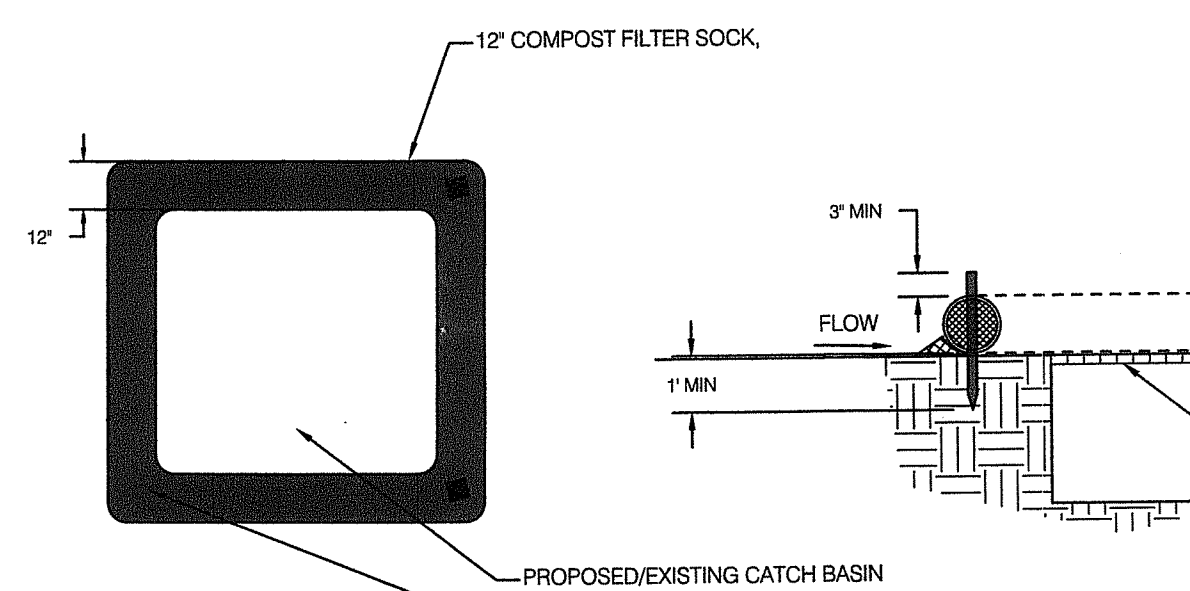
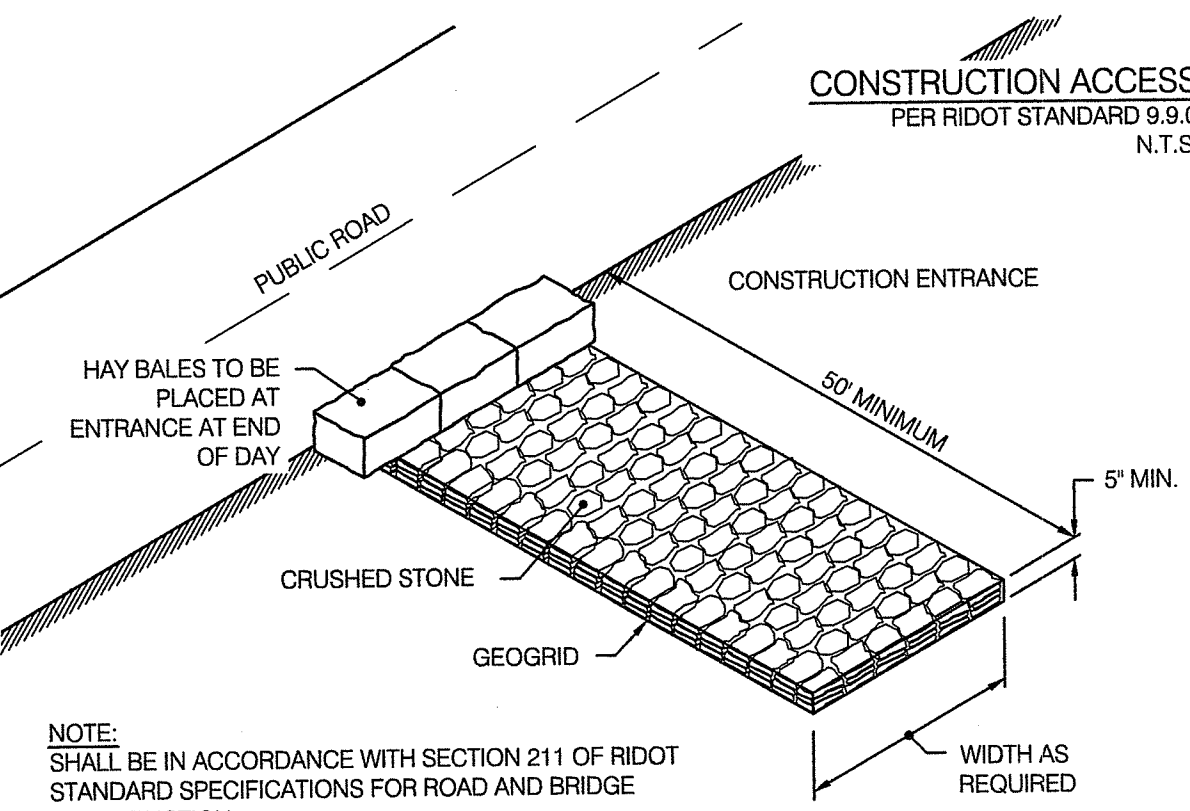


NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

1 TREE PROTECTION DEVICE

SCALE: NOT TO SCALE

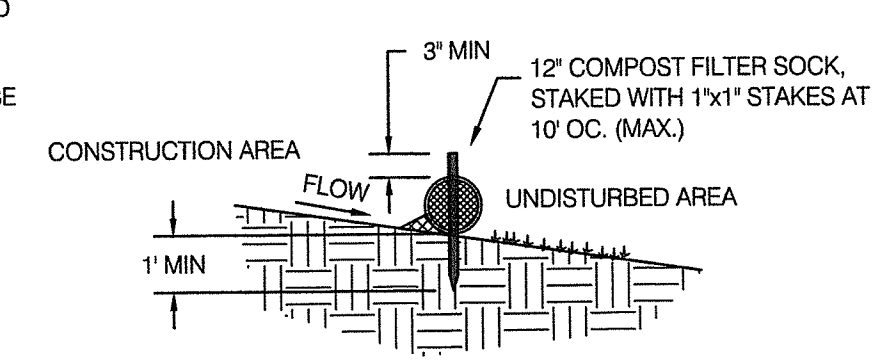
- INSTALLATION. COMPOST FILTER SOCKS SHALL BE CONSTRUCTED AT THE LOCATIONS, AND IN ACCORDANCE WITH THE DETAILS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THE FOLLOWING SPECIFICATIONS ALSO APPLY:
 - COMPOST FILTER SOCKS MAY BE EITHER FABRICATED ON SITE OR DELIVERED TO THE SITE.
 - COMPOST MEDIA SHALL CONFORM TO AASHTO MP 9-06 AND RIDOT SECTION 206.
 - TRENCHING IS NOT REQUIRED. COMPOST FILTER SOCKS SHALL BE PLACED OVER THE TOP OF GROUND. WOODEN STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE FILTER SOCKS TO ANCHOR THEM TO THE GROUND. TO ENSURE OPTIMUM PERFORMANCE, HEAVY VEGETATION SHALL BE CUT DOWN OR REMOVED, AND EXTREMELY UNEVEN SURFACES SHALL BE GRADED TO ENSURE THAT THE COMPOST FILTER SOCK UNIFORMLY CONTACTS THE GROUND SURFACE.
 - FILTER SOCKS SHALL BE PLACED IN A CONTINUOUS LINE. WHERE ENDS INTERSECT THEY SHALL BE SLEEVED TO CREATE AN INTERLOCK WITH A TWO (2) FOOT OVERLAP. AFTER ONE SECTION IS FILLED AND THE ENDS TIED OFF, THE NEXT SECTION SHALL BE PULLED OVER THE TIED OFF END OF THE PREVIOUS SECTION, TO CREATE A 2 FOOT OVERLAP. THE OVERLAP SHALL BE STAKED. THE INTERSECTING OVERLAPS SHALL BE CONSTRUCTED TO ENSURE THAT STORMWATER DOES NOT BREAK THROUGH AT THESE INTERSECTION POINTS.
- REMOVAL. THIS WORK, IF REQUIRED, SHALL INCLUDE THE REMOVAL OF THE COMPOST FILTER SOCK AND STAKES. UNLESS BIODEGRADABLE, THE MESH FILTER SOCK MATERIAL SHALL BE CUT OPEN AND THE MESH REMOVED. IN GENERAL, THE COMPOST FILTER MATERIAL MAY BE LEFT IN PLACE, HOWEVER THE MATERIAL WILL BE RAKED OUT LEVELED TO SURROUNDING GRADES, THEN SEEDED. PRIOR TO SUCH REMOVAL, HOWEVER, ALL SILT, MUD AND DEBRIS ENTRAPPED OUTSIDE OF THE COMPOST FILTER SOCK SHALL BE REMOVED AND THE AREA CLEANED UP IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 212 OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



2 EROSION CONTROL DETAILS

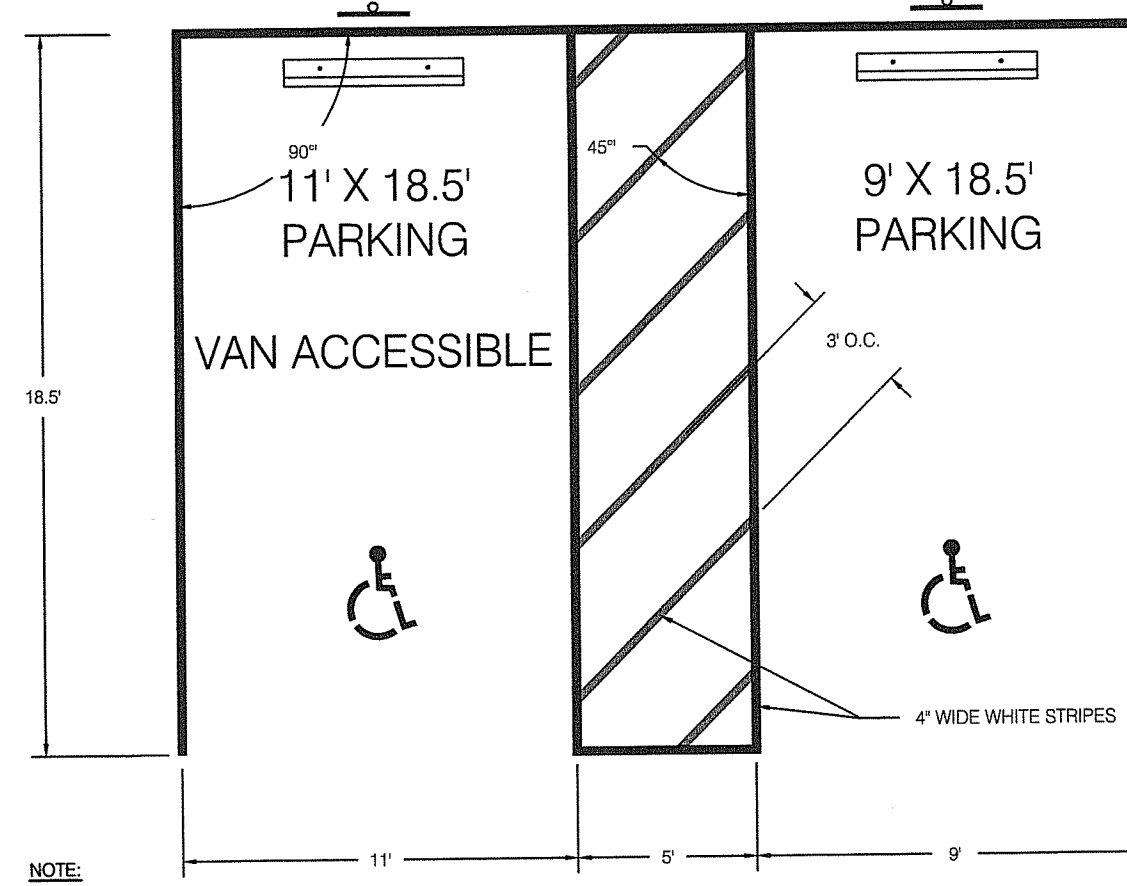
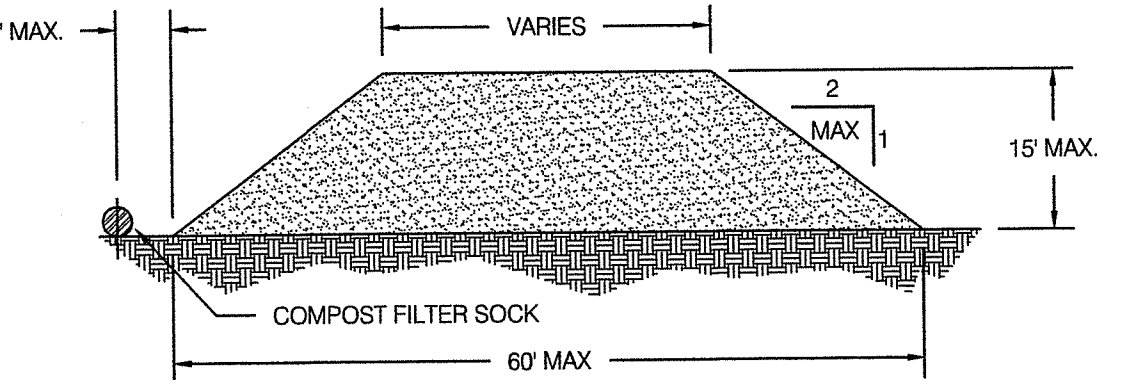
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**SEDIMENT BARRIER
COMPOST FILTER SOCK DETAIL**
REF. SECTION 206.03.4 OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION N.T.S.



TEMPORARY SEDIMENT STOCKPILE
N.T.S.

- NOTES:
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PREPARE PLAN INDICATING LOCATIONS OF SEDIMENT STOCKPILES FOR APPROVAL BY THE ENGINEER OR APPROPRIATE REGULATORY AUTHORITY.
 - STOCKPILE SHALL NOT EXCEED GIVEN DIMENSIONS WITHOUT APPROVAL BY ENGINEER OR APPROPRIATE REGULATORY AUTHORITY.
 - STOCKPILED MATERIAL NOT TO BE USED WITHIN 14 CALENDAR DAYS SHALL BE PLANTED WITH TEMPORARY SEED MIX PER RIDOT STD M.18.10.5.



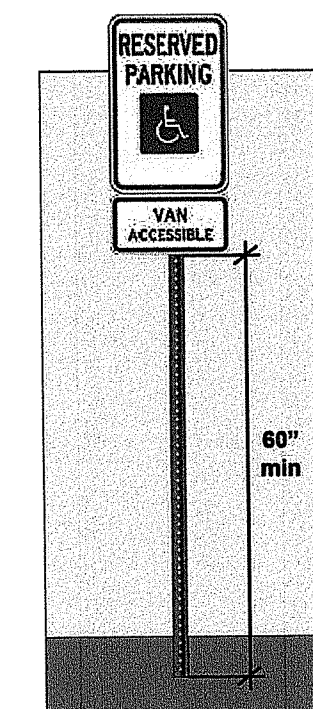
NOTE: HANDICAP PARKING SIGN SHALL BE PLACED ON BUILDING, ON POST BEHIND CURB, OR ON POST BEHIND SIDEWALK.

3 ADA PARKING LAYOUT

SCALE: NOT TO SCALE

4 HANDICAP PAVEMENT MARKING

SCALE: NOT TO SCALE



5 ADA PARKING SIGNAGE

SCALE: NOT TO SCALE

LOAM AND SEED:

- GENERAL:
- ALL DISTURBED AREAS TO BE LOAMED AND SEEDED PER "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" AS AMENDED OR REVISED
 - FOR NON-NATIVE PLANTING SEEDING DATES ARE APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 30. DATE MAY BE EXTENDED 15 DAYS IN NEWPORT COUNTY
 - FOR NATIVE PLANTING SEEDING DATES ARE BETWEEN AUGUST AND SEPTEMBER

- SEED BED PREPARATION:
- LOOSEN SOIL TO A DEPTH OF FIVE INCHES BY RAKING, DISCING, DRAGGING OR TRAVERSING WITH TRACKED MACHINERY. OVER COMPACTION SHALL BE AVOIDED. CLEAR MARKS SHALL BE PERPENDICULAR TO ANTICIPATED DIRECTION OF SURFACE WATER FLOW
 - APPLY TOPSOIL IF NECESSARY
 - APPLY SLOW RELEASE FERTILIZER NOT TO EXCEED 1500 LBS PER ACRE OR 36 LBS PER 1,000 SF USING THE FOLLOWING PERCENTAGES BY WEIGHT
 - 10% AVAILABLE NITROGEN (N)
 - 20% AVAILABLE PHOSPHORIC ACID (P)
 - 20% AVAILABLE POTASSIUM (K)
 - REMOVE FROM SURFACE ALL STONES LARGER THAN 2" IN DIAMETER, ALL DEBRIS, TREE ROOTS OR OTHER UNSUITABLE MATERIAL
 - INSPECT AREA TO BE SEEDED IMMEDIATELY PRIOR TO SEEDED FOR ANY COMPACTED AREAS. IF COMPACTED AREAS EXIST SCARIFY PRIOR TO COMMENCING SEEDING

- SEEDING:
- APPLY SELECTED SEED AT RATES PROVIDED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER
 - NORMAL SEEDING DEPTH IS .25 TO .5 INCH. HYDROSEEDINGS MAY BE LEFT ON THE SOIL SURFACE
 - WHERE FEASIBLE, EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, FIRM THE SEEDBED FOLLOWING SEEDING OPERATION WITH ROLLER, OR LIGHT DRAG.
 - SEEDING RATES SHALL BE INCREASED BY 10% WHEN USING HYDROSEEDING
 - USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF WOOD FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION.
 - IF SEEDING CAN NOT BE COMPLETED WITHIN SEEDING DATES USE MULCHING TO PROTECT SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

RECOMMENDED SEEDING:

SEED MIXTURE NO.	SEED MIXTURE	AMOUNT	AMOUNT
1	KENTUCKY BLUE GRASS	22.5 LBS/AC	0.5 LBS/1000 SF
2	CREeping RED FESCUE	105 LBS/AC	2.5 LBS/1000 SF
3	PERENNIAL RYEGRASS	22.5 LBS/AC	0.5 LBS/1000 SF

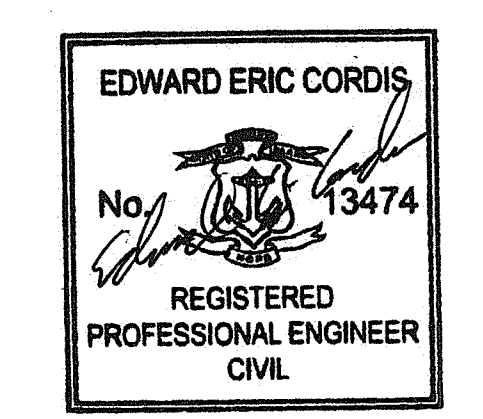
NOTES: WHERE CONFUSION OR UNCERTAINTY EXISTS IN LOAMING AND SEEDING CONSULT THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" AS AMENDED OR REVISED, ENGINEER, LANDSCAPE ARCHITECT

SCALE: NOT TO SCALE

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Revised on

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READINESS CENTER ADDITION

RI Environmental Management
OCT 18 2021
Office of Water Resources

106 AIRPORT ACCESS RD
MIDDLETOWN, RI 02842

FOR CONSTRUCTION

AS SPECIFIED IN THE PERMIT FOR APPROVAL

DATED NOV 3 2021 FILE # 21-0274

NO CHANGES ALLOWED WITHOUT PROJECT APPROVAL

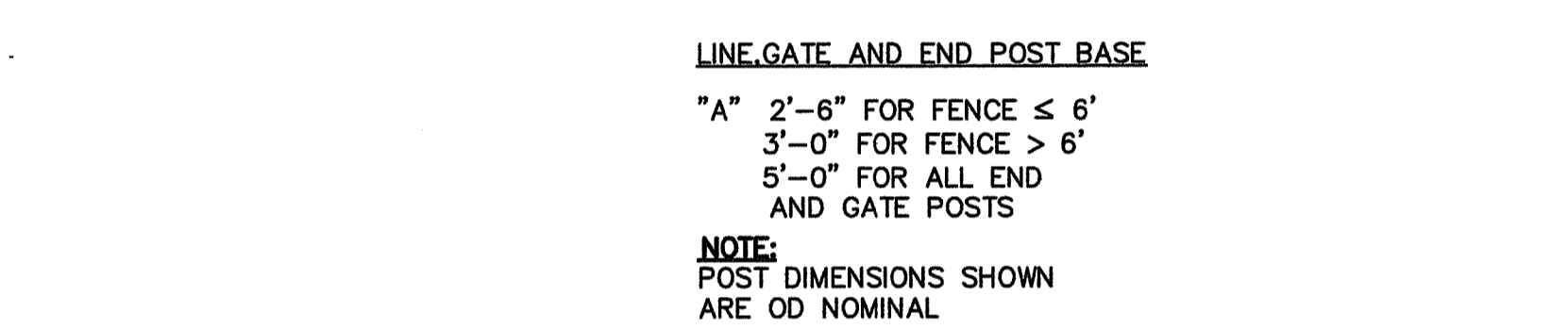
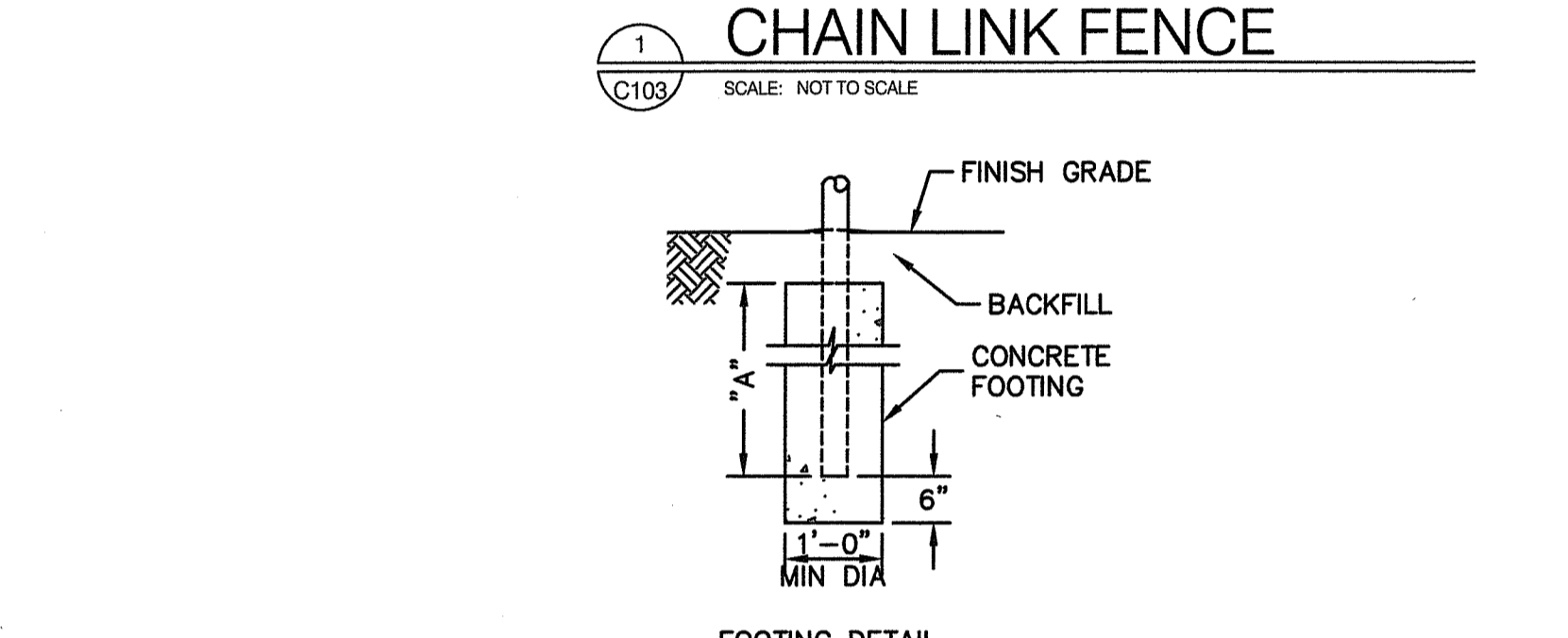
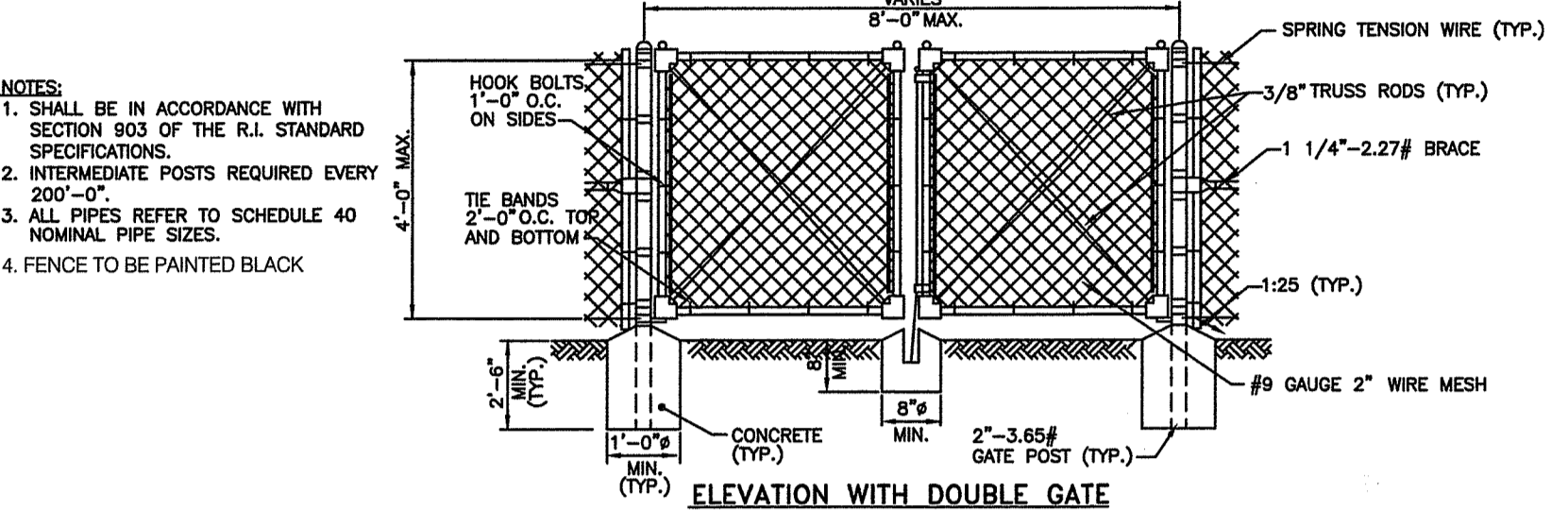
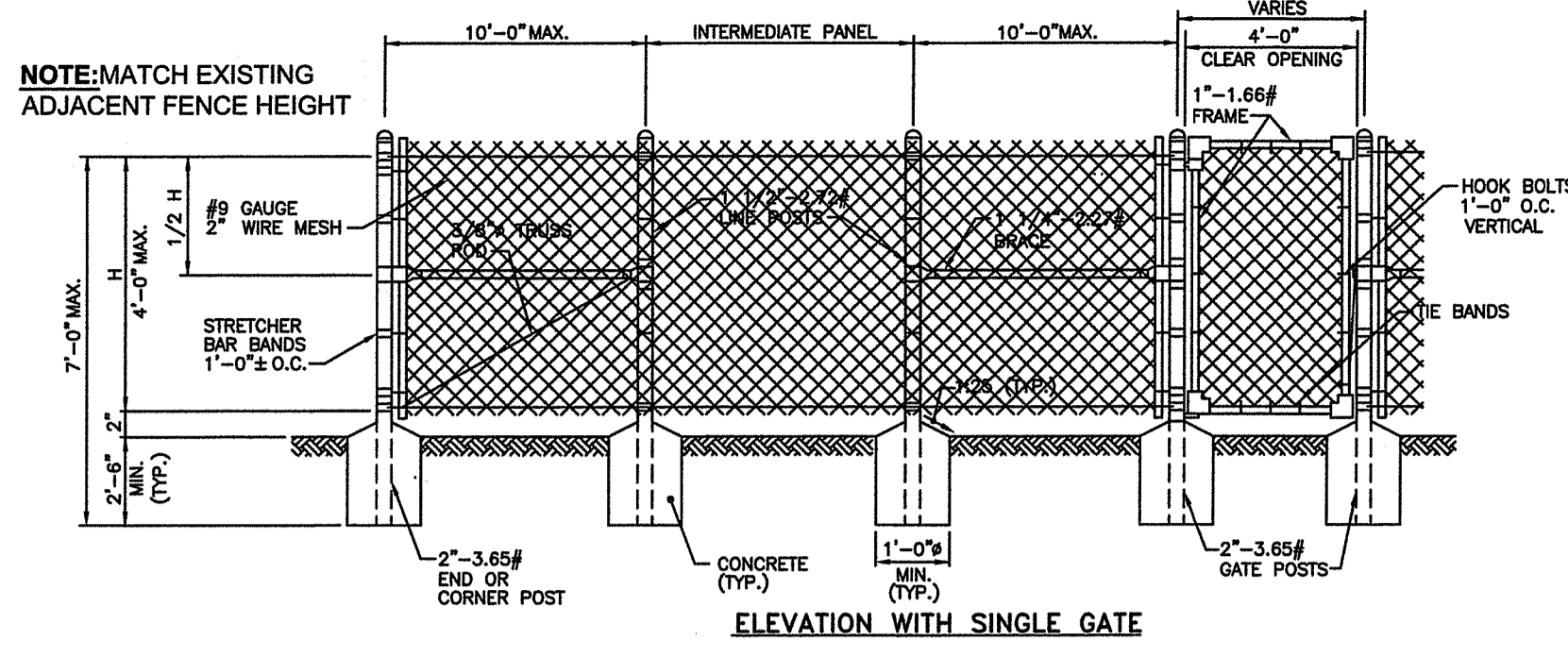
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Issued On: June 15th, 2021

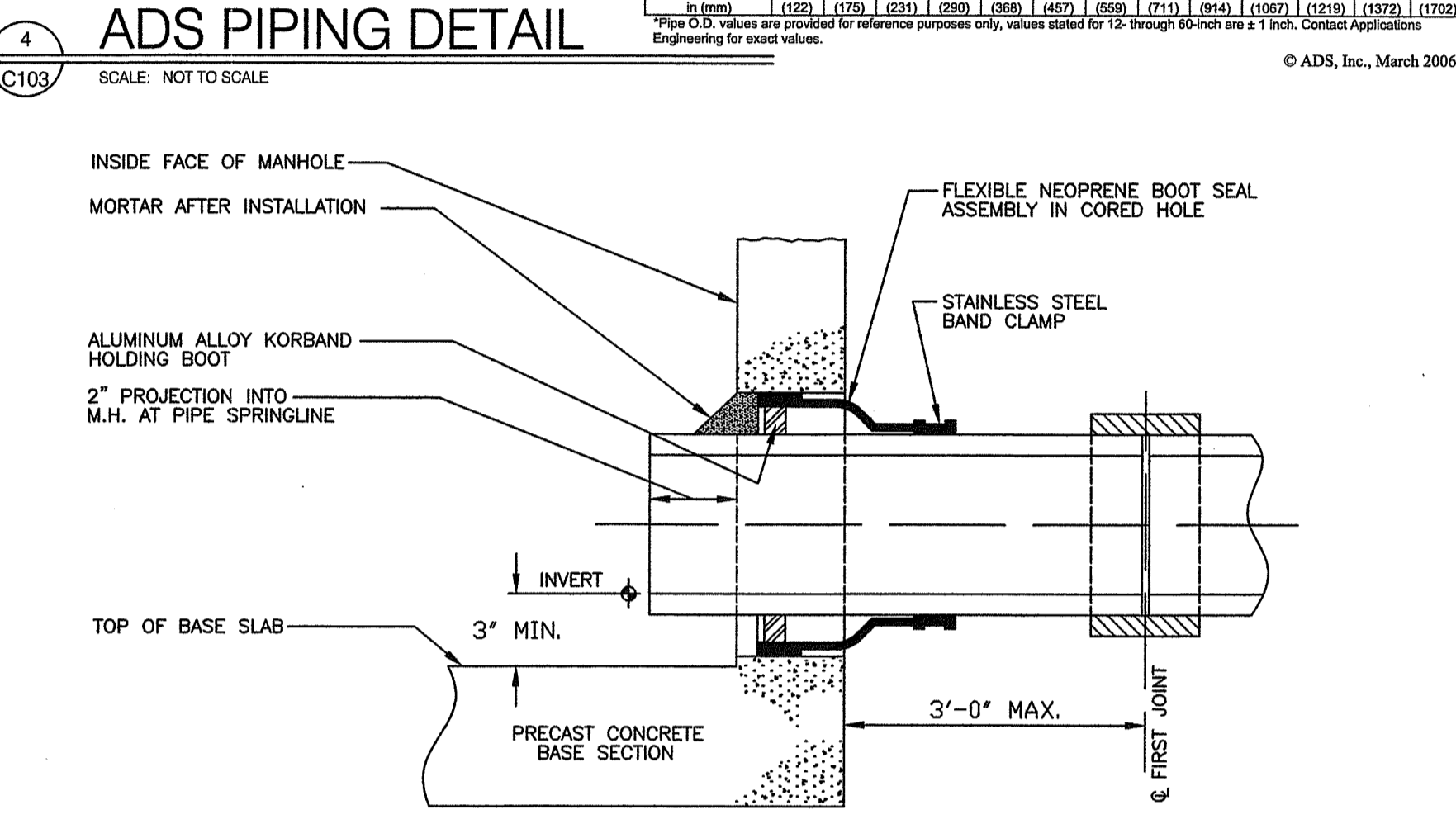
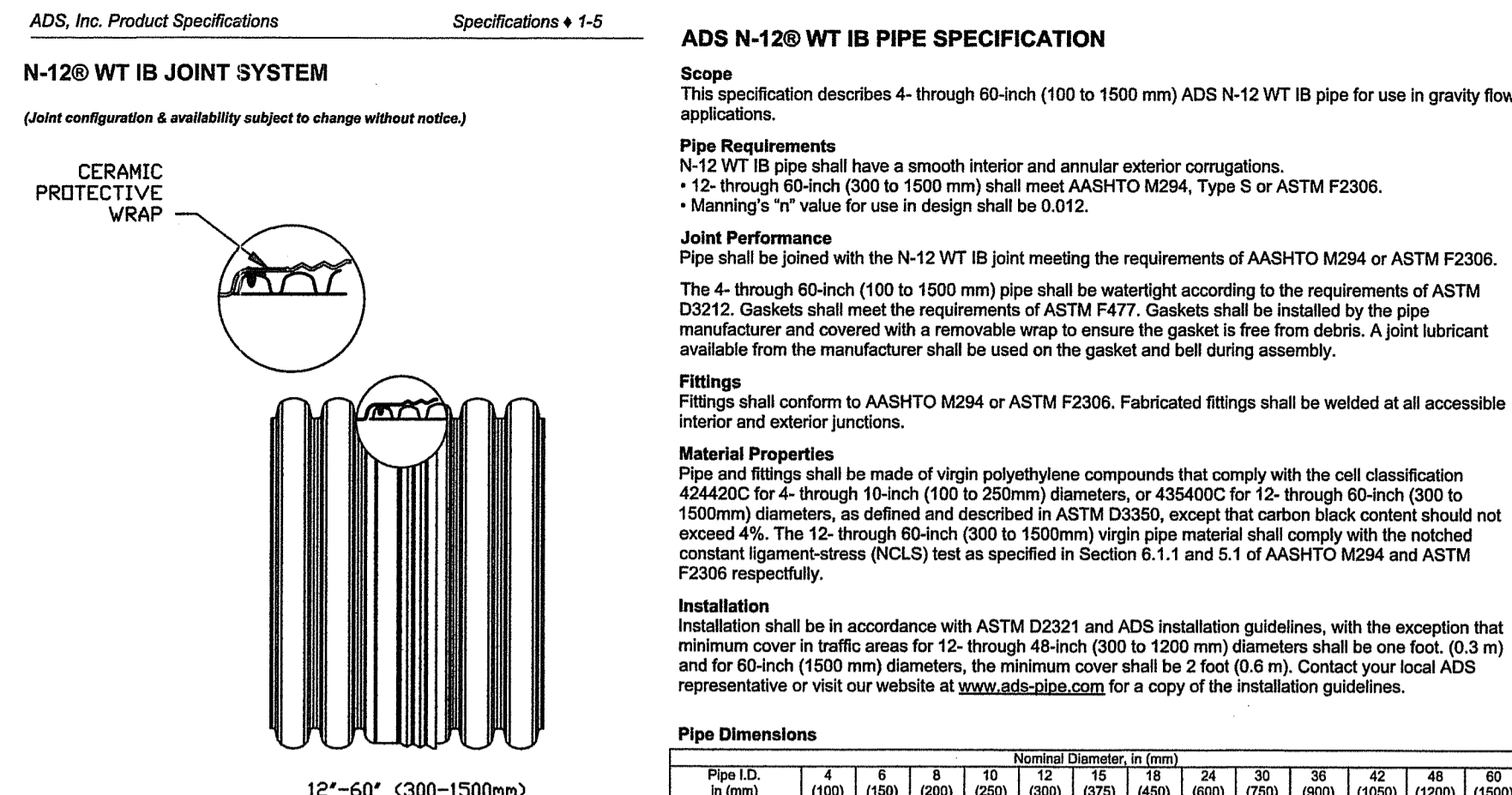
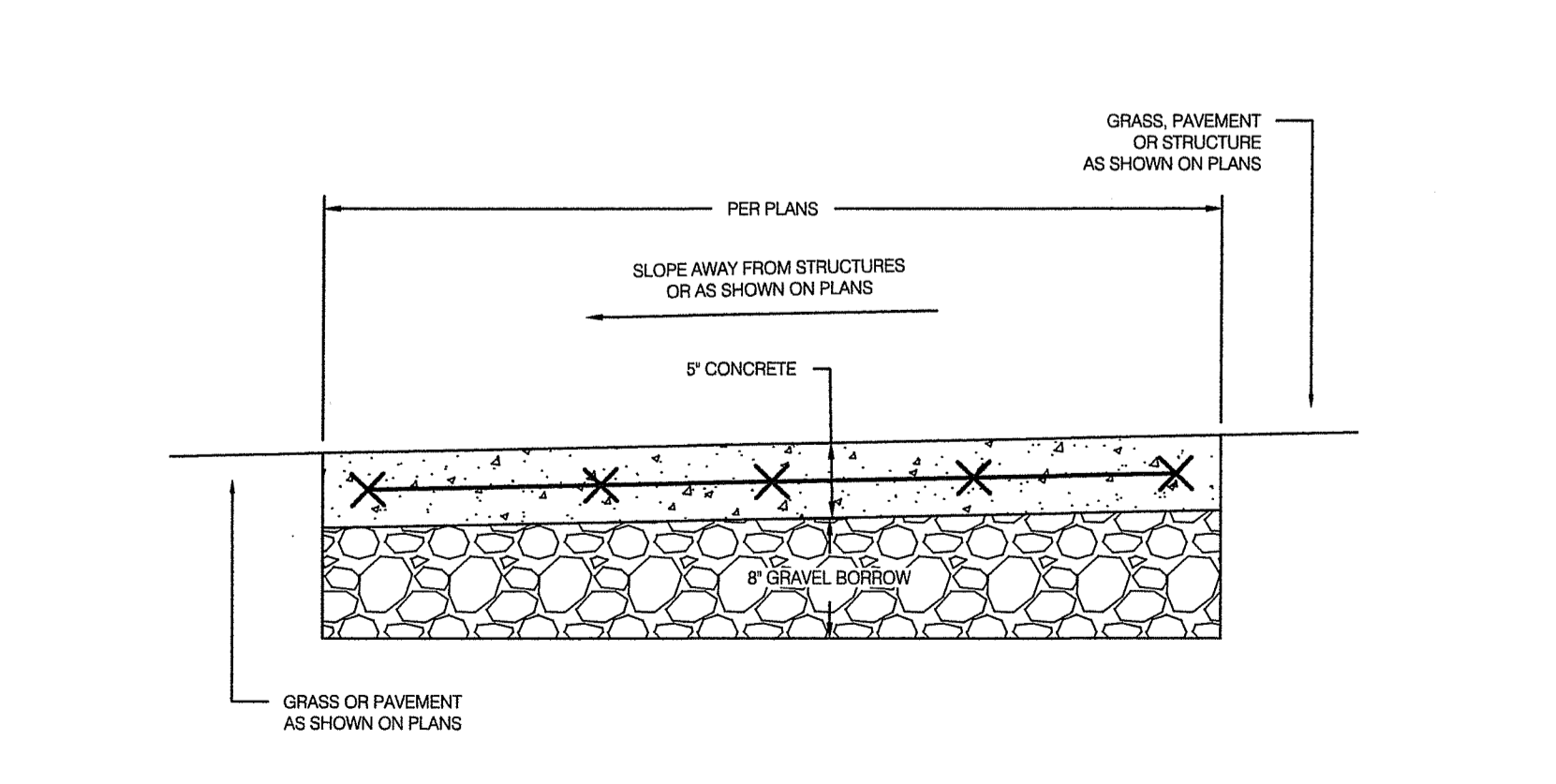
Sheet Contents

DETAILS AND NOTES

Project Number: 6554
Drawing No. **C102**
Sheet 8 of 10 9 of 16



- NOTES:**
1. MAXIMUM CROSS SLOPE = 2%, GRADE AS SHOWN ON PLANS
 2. MAXIMUM GRADIENT = 5%
 3. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES
 4. GRAVEL BORROW BASE SHALL COMPACT TO ACHIEVE SOIL DENSITY VALUES OF 95% MODIFIED PROCTOR DENSITY (AASHTO T180)
 5. REINFORCE THE CONCRETE SLAB WITH WELDED WIRE FABRIC, 4x4-W4 x W4
 6. PROVIDE CONTROL JOINT 1/2 TIMES THE DEPTH OF THE SLAB. DISTANCE BETWEEN CONTROL JOINTS TO BE 8' MAXIMUM
 7. PROVIDE EXPANSION JOINT WITH PRE-MOLDED FILLER, RECESS FILLER 1/2" JOINT TO BE INSTALLED AT 20' INTERVALS. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES.
 8. PORTLAND CEMENT CONCRETE SIDEWALK, CLASS A (RIDOT 601.01.1) SHALL BE AN AIR-ENTRAINED 4,000 PSI, 3" MIX
 9. GRAVEL FOR THE SIDEWALK BASE SHALL BE IN ACCORDANCE WITH M.01.09 GRADATION II
 10. WORK TO BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS



ADS DESIGN AND INSTALLATION SPECIFICATIONS:
[HTTPS://WWW.ADS-PIPE.COM/SITES/DEFAULT/FILES/DRAINAGE_HANDBOOK_ADH2_STRUCTURES_2805-19929.PDF](https://www.ads-pipe.com/sites/default/files/drainage_handbook_adh2_structures_2805-19929.pdf)

ADS COVER AND TRENCH DETAILS UNDER PAVEMENT:
[HTTPS://WWW.ADS-PIPE.COM/SITES/DEFAULT/FILES/MINIMUM_AND_MAXIMUM_COVER_DEPTHS_4IN-48IN_PIPE_N-12_282TECH_NOTE_A2_02_01-16129.PDF](https://www.ads-pipe.com/sites/default/files/minimum_and_maximum_cover_depths_4in-48in_pipe_n-12_282tech_note_a2_02_01-16129.pdf)

ADS CONNECTION DETAILS:
[HTTPS://WWW.ADS-PIPE.COM/SITES/DEFAULT/FILES/CONNECTION_HDPE_AND_HP_STORM_TO_MANHOLES_AND_STRUCTURES_AS_04_MARCH_2016.PDF](https://www.ads-pipe.com/sites/default/files/connection_hdpe_and_hp_storm_to_manholes_and_structures_as_04_march_2016.pdf)



Scope
 This specification describes 12- through 36-inch (300 to 900mm) ADS Flared End Sections for use in culvert and drainage outlet applications.

Requirements
 The ADS Flared End Section shall be high density polyethylene meeting ASTM D3350 minimum cell classification 213320C; contact manufacturer for additional cell classification information. When provided, the metal threaded fastening rod shall be stainless steel.

Installation
 Installation shall be in accordance with ADS installation instructions and with those issued by state or local authorities. Contact your local ADS representative or visit www.ads-pipe.com for the latest installation instructions.

Diameter	PIPE DIAMETER, in (mm)				
	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)
A	6.5	6.5	7.5	7.5	7.5
B (max)	10.0	10.0	15.0	18.0	22.0
B (min)	(254)	(254)	(381)	(473)	(559)
H	6.5	6.5	6.5	6.5	6.6
L	(165)	(165)	(165)	(165)	(218)
L (min)	25.0	25.0	32.0	36.0	58.0
W	(635)	(635)	(613)	(614)	(1473)
W (min)	29.0	29.0	35.0	45.0	63.0
W (max)	(737)	(737)	(889)	(1143)	(1600)

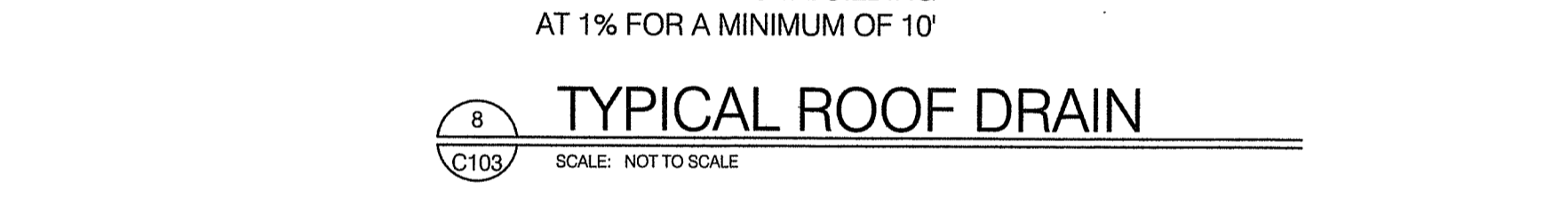
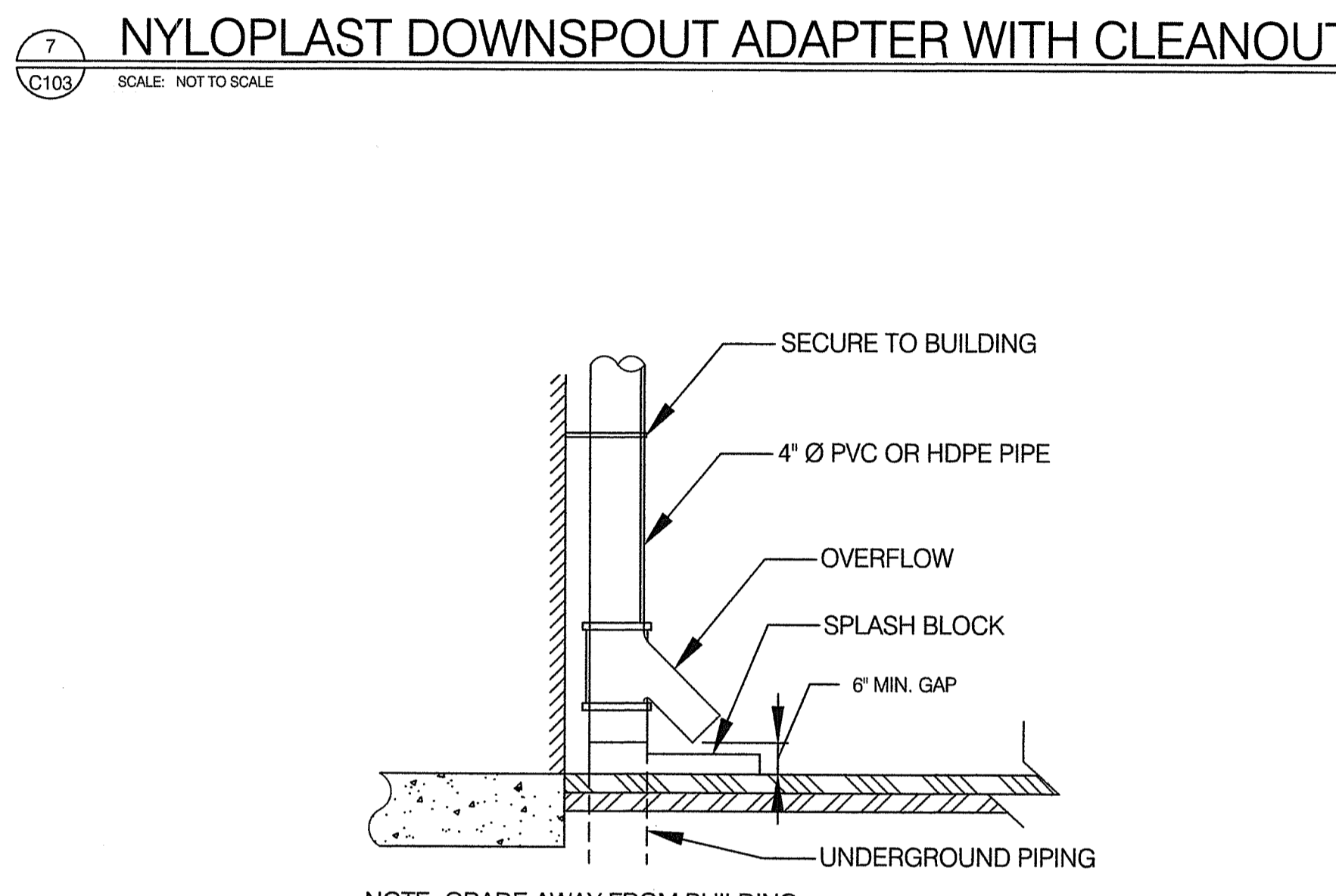
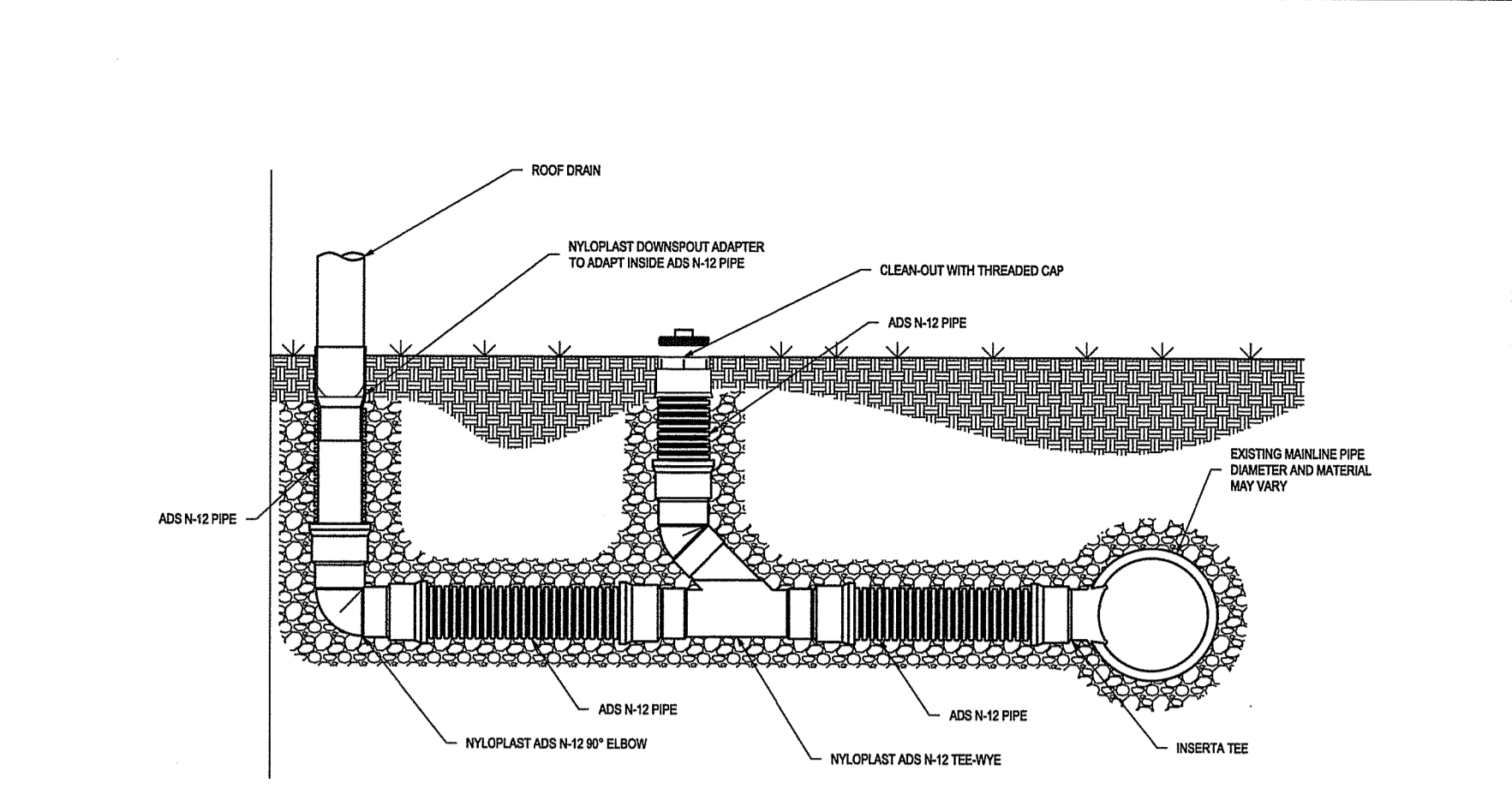
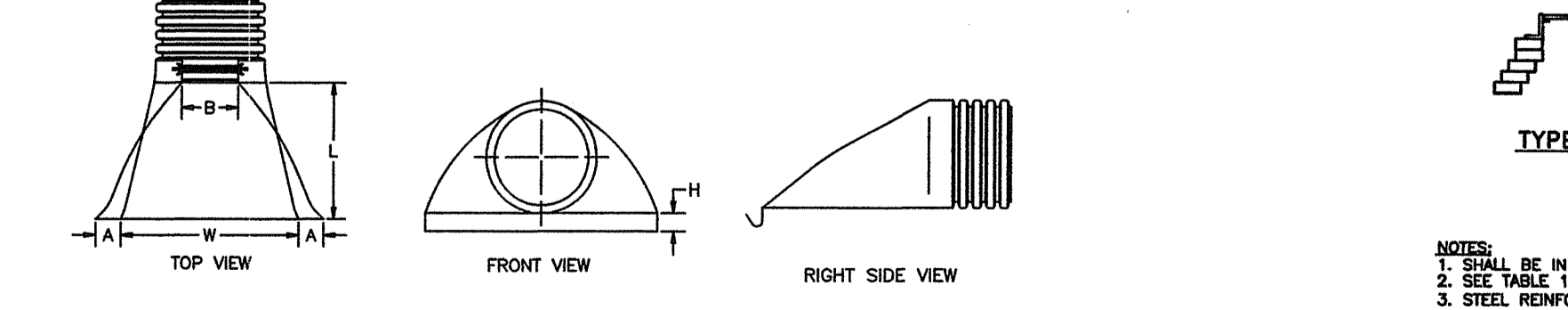
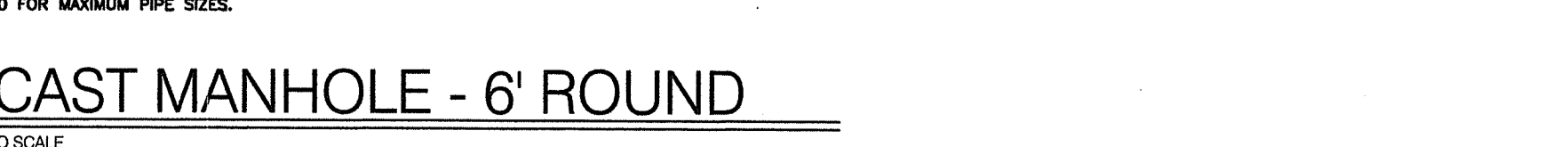
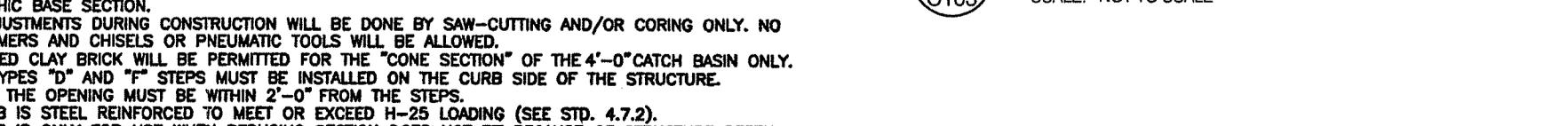
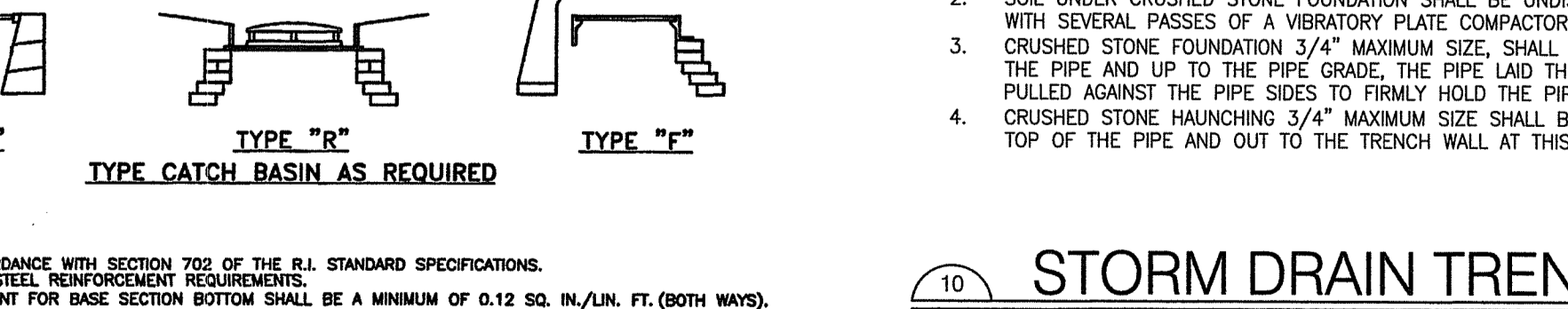
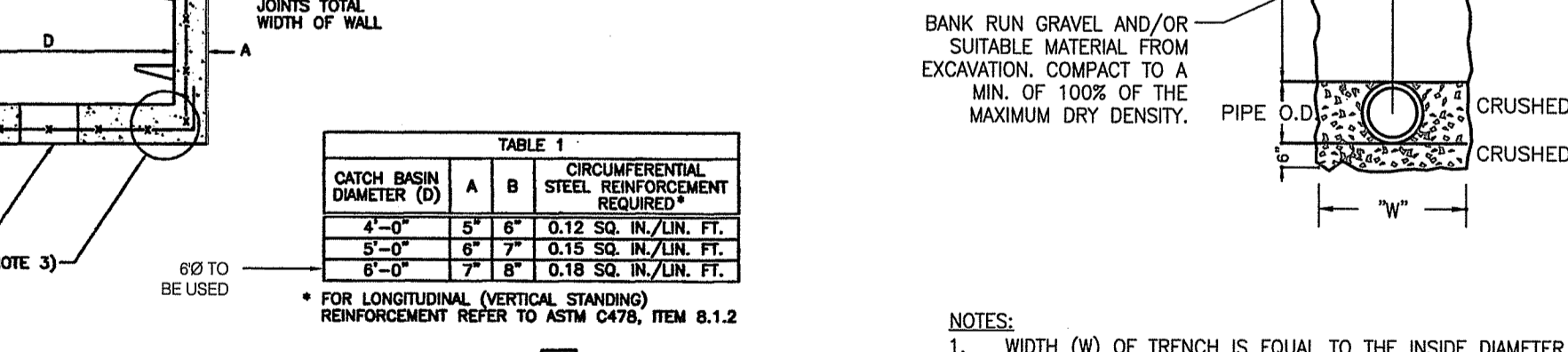


TABLE 1

CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5'	6'	0.12 SQ. IN./LIN. FT.
5'-0"	6'	7'	0.15 SQ. IN./LIN. FT.
6'-0"	7'	8'	0.18 SQ. IN./LIN. FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



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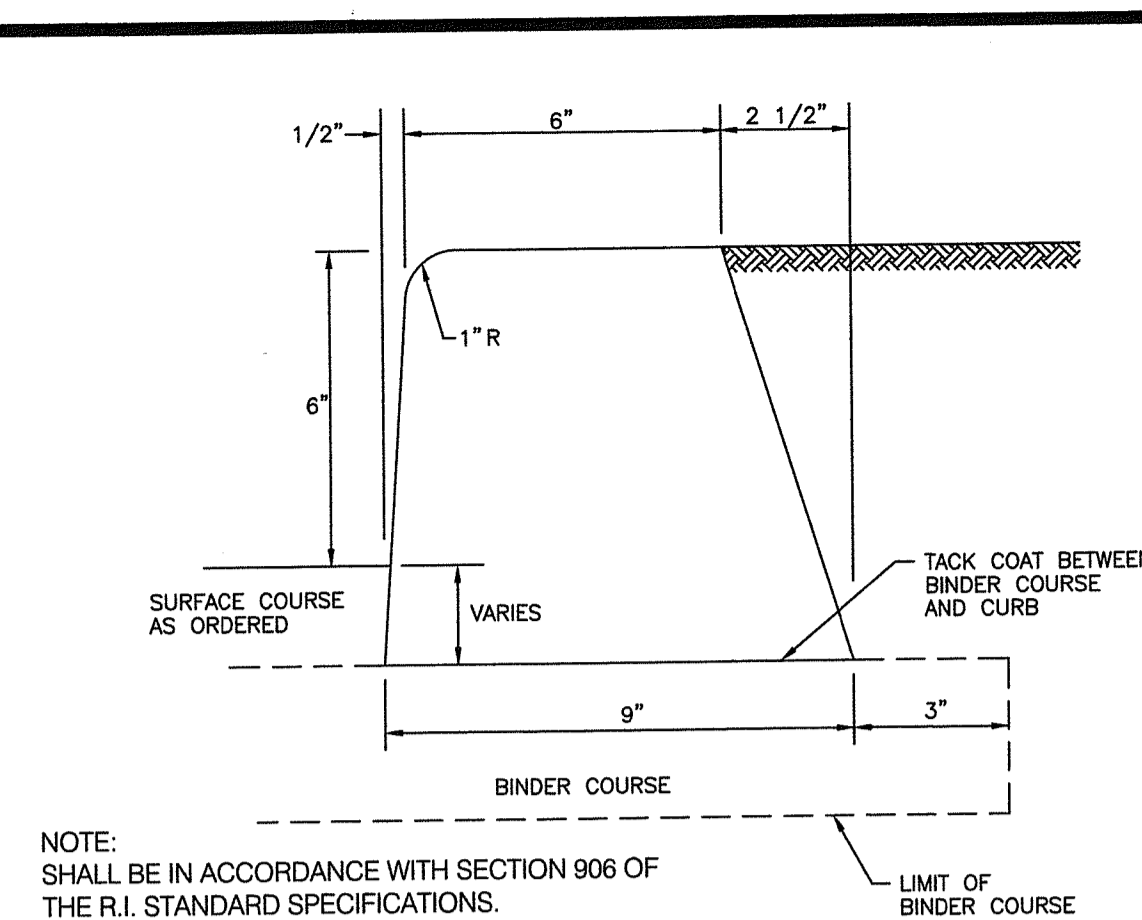
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Project Number: 6554
 Drawing No. C103
 Sheet 10 of 16

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1 BITUMINOUS CONCRETE LIP CURB
C104 SCALE: NOT TO SCALE

Class	NMAAS	Recommended Lift Thickness (Inches)		TO BE USED	Typical Use
		Min.	Max.		
Dense Base Courses	Class 19.0 HMA	3	5	-	Base or other underlying layers. Preferred mix for lifts greater than or equal to 3"
	Class 12.5 HMA	2	3		Surface, Base or other underlying layers. Patching, Utilities, Waterways
Dense Surface Courses	Class 9.5 HMA	1 1/2	2 1/4	-	Surface, Bridges, Driveways, Leveling, Patching, Utilities, Waterways, Misc.
	Class 4.75 HMA	3/4	1 1/4		Surface, Surface for Bike Paths, Sidewalks, Leveling, Patching, Utilities, Waterways, Misc.
Special Courses and Other Courses	Friction Course (FC) Friction Course for Shoulders	1 1/2	-	-	Limited Access, Interstate Highways, High Speed Facilities
	PPEST	1	-		Pavement Preservation Overlay
	SMA	Varies	-	-	Base and/or Surface

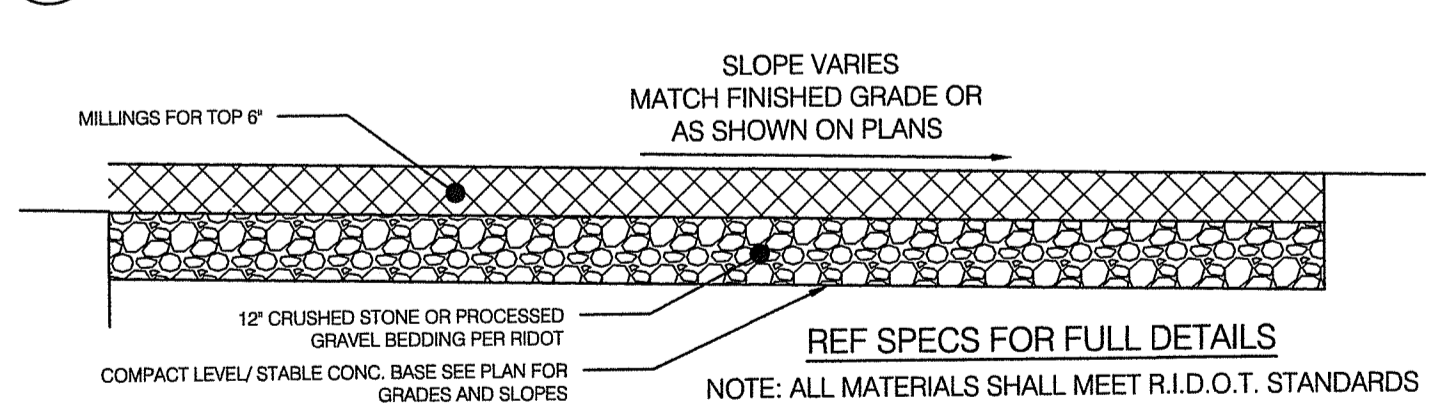
HMA = Hot Mix Asphalt, NMAAS = Nominal Maximum Aggregate Size, FC = Friction Course, PPEST = Paver Placed Elastomeric Surface Treatment, SMA = Stone Matrix Asphalt

Notes:
 1. "Class" refers to dense HMA courses. "Class" is followed by a number representing the NMAAS of the mix in millimeters.
 2. Minimum lift thickness may be calculated as 4 times the NMAAS. For example, Class 12.5 HMA, 4 x 12.5mm = 50 mm or 2 inches as a lift thickness (this rule excludes special courses). In general, using more lifts will provide for a smoother pavement; the largest NMAAS should be used for each lift.
 3. Surface course binder shall be modified for all paver placed surface courses unless otherwise designated. Other additives for binder will be specified in the Contract Documents as required, e.g. WMA, anti-stripping.
 a) The term "binder" refers to liquid asphalt.
 b) The term "modified" refers to the polymer modification of binder.

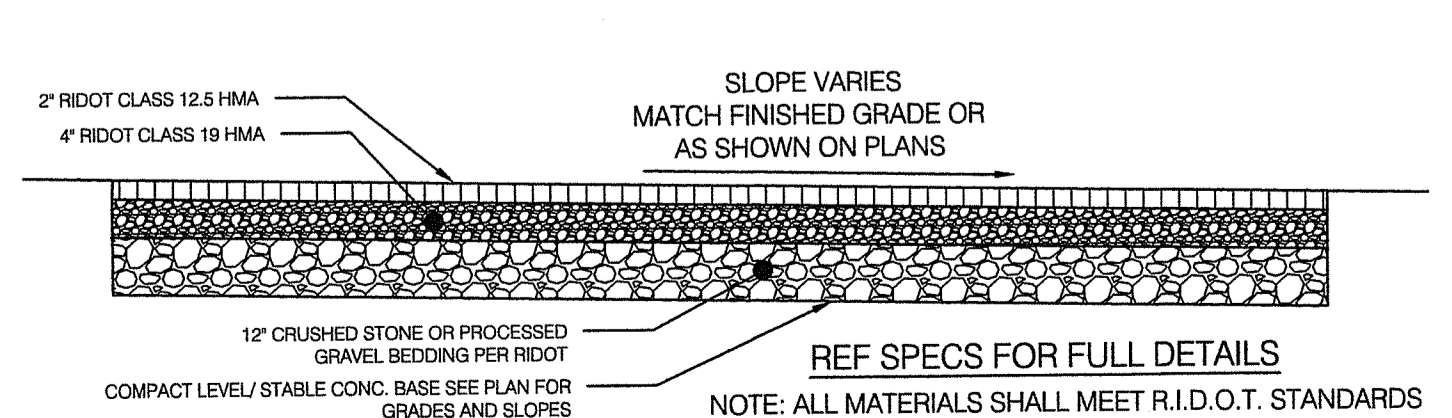
3 RIDOT HMA MATRIX
C104 SCALE: NOT TO SCALE

US STANDARD SIEVE SIZE	PERCENT PASSING (%)			
	CHOKER COURSE (AASHTO NO. 57)	FILTER COURSE (AASHTO NO. M-6)	RESERVOIR COURSE (AASHTO NO. 3)	RESERVOIR COURSE (AASHTO NO. 5)
6 INCHES 150 MM	-	-	-	-
2 1/2 INCHES 63 MM	-	-	100	-
2 INCHES 50 MM	-	-	90 - 100	-
1 1/2 INCHES 37.5 MM	100	-	35 - 70	100
1 INCH 25 MM	95 - 100	-	0 - 15	90 - 100
3/4 INCH 19 MM	-	-	-	20 - 55
1/2 INCH 12.5 MM	25 - 60	-	0 - 5	0 - 10
3/8 INCH 9.5 MM	-	100	-	0 - 5
#4 4.75 MM	0 - 10	70 - 100	-	-
#8 2.36 MM	0 - 5	-	-	-
#200 0.075 MM	-	0 - 6**	-	-
% COMPACTION ASTM D699 / AASHTO T99	95	95	95	95

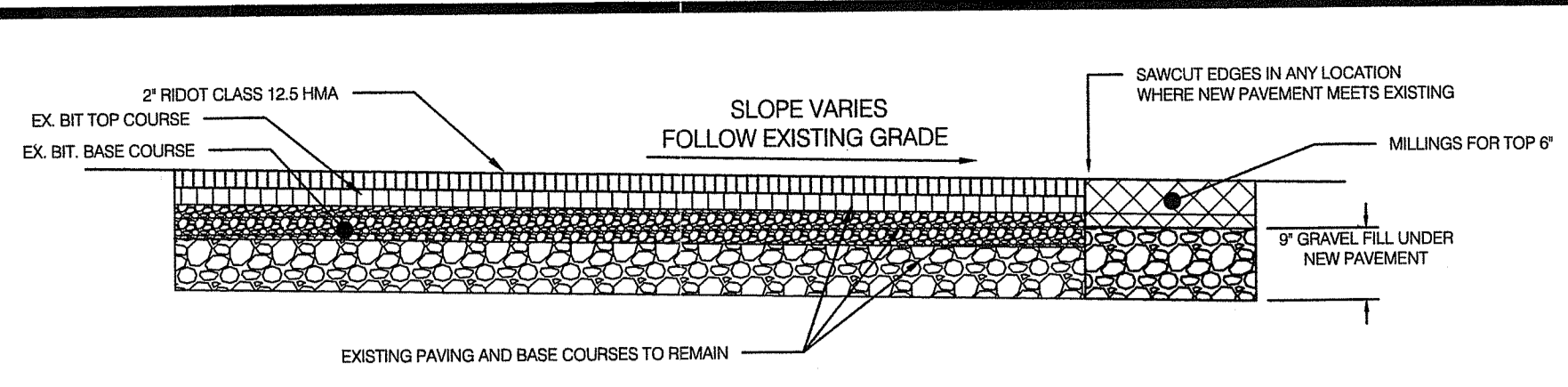
4 STD GRADATIONS TABLE F-7 RIDEM
C104 SCALE: NOT TO SCALE



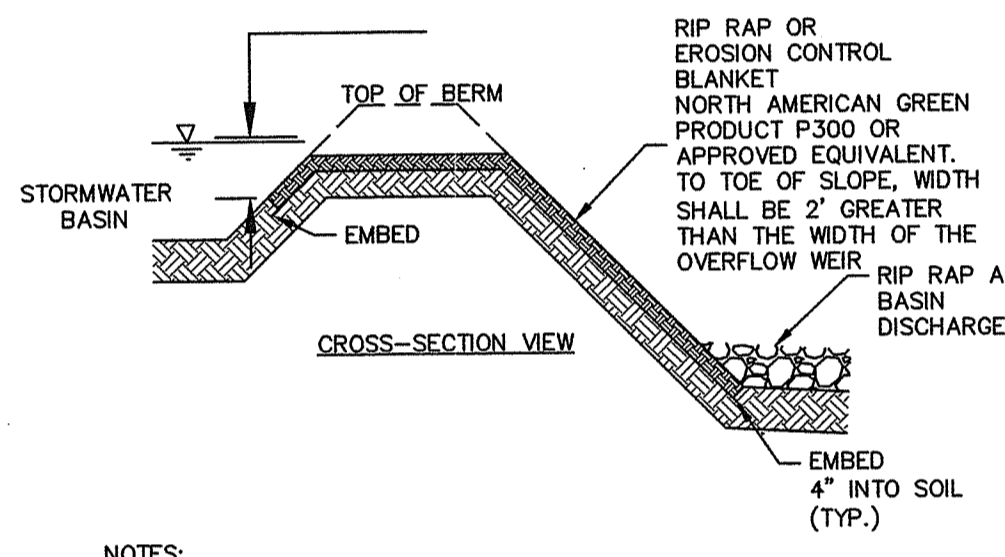
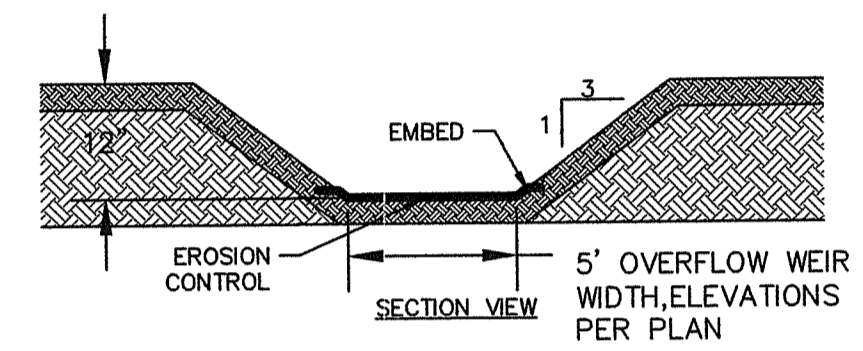
5 BASE BID: MILLINGS TYPICAL CROSS SECTION AT NEW PARKING LOT
C104 SCALE: NOT TO SCALE



5A ADD ALT #6: PARKING LOT CROSS SECTION
C104 SCALE: NOT TO SCALE

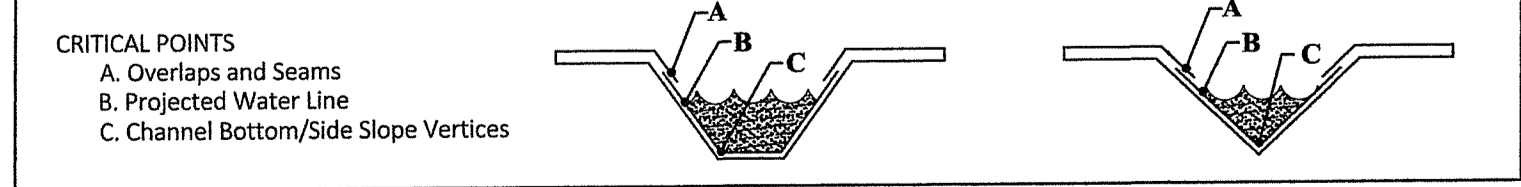
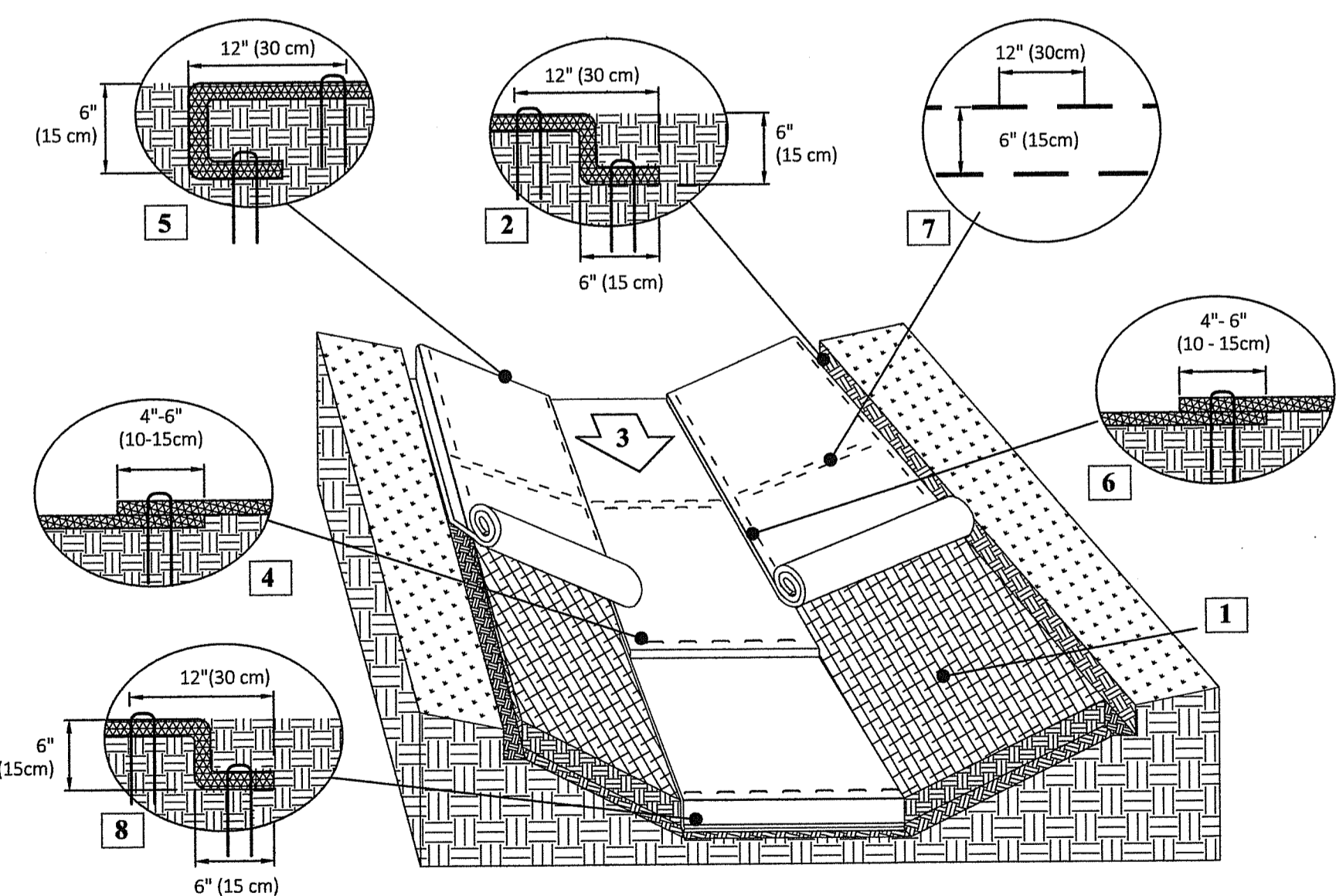


6 BASE BID: MILLINGS EXTENSION AT WIDENED DRIVEWAY
C104 SCALE: NOT TO SCALE



NOTES:
 1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN PRODUCTS P300 OR APPROVED EQUIVALENT.
 2. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
 3. AS ALTERNATE - USE RIP RAP WITH SIZES AS SHOWN, SEE DETAIL C104

7 EARTHEN EMERGENCY SPILLWAY
C104 SCALE: NOT TO SCALE



NOTES:
 *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

Design Values
 D_{50} dia. = 4.0 Rock_{max} in. thickness = 0.5 ft.

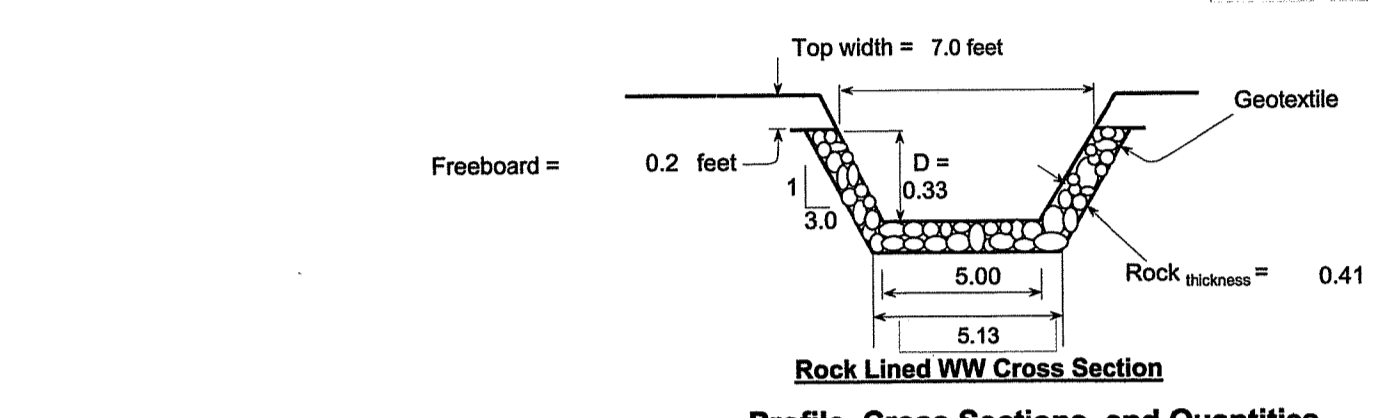
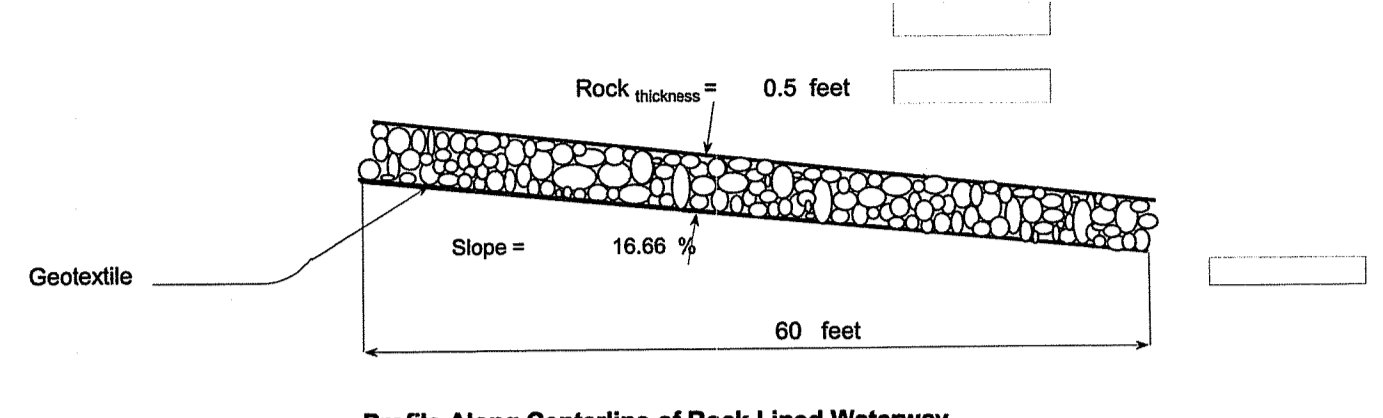
Rock Gradation Envelope

% Passing	Diameter, in. (weight, lbs.)
D_{100}	6 - 8 (15 - 36)
D_{85}	6 - 8 (15 - 36)
D_{50}	4 - 6 (5 - 15)
D_{10}	3 - 5 (2 - 10)

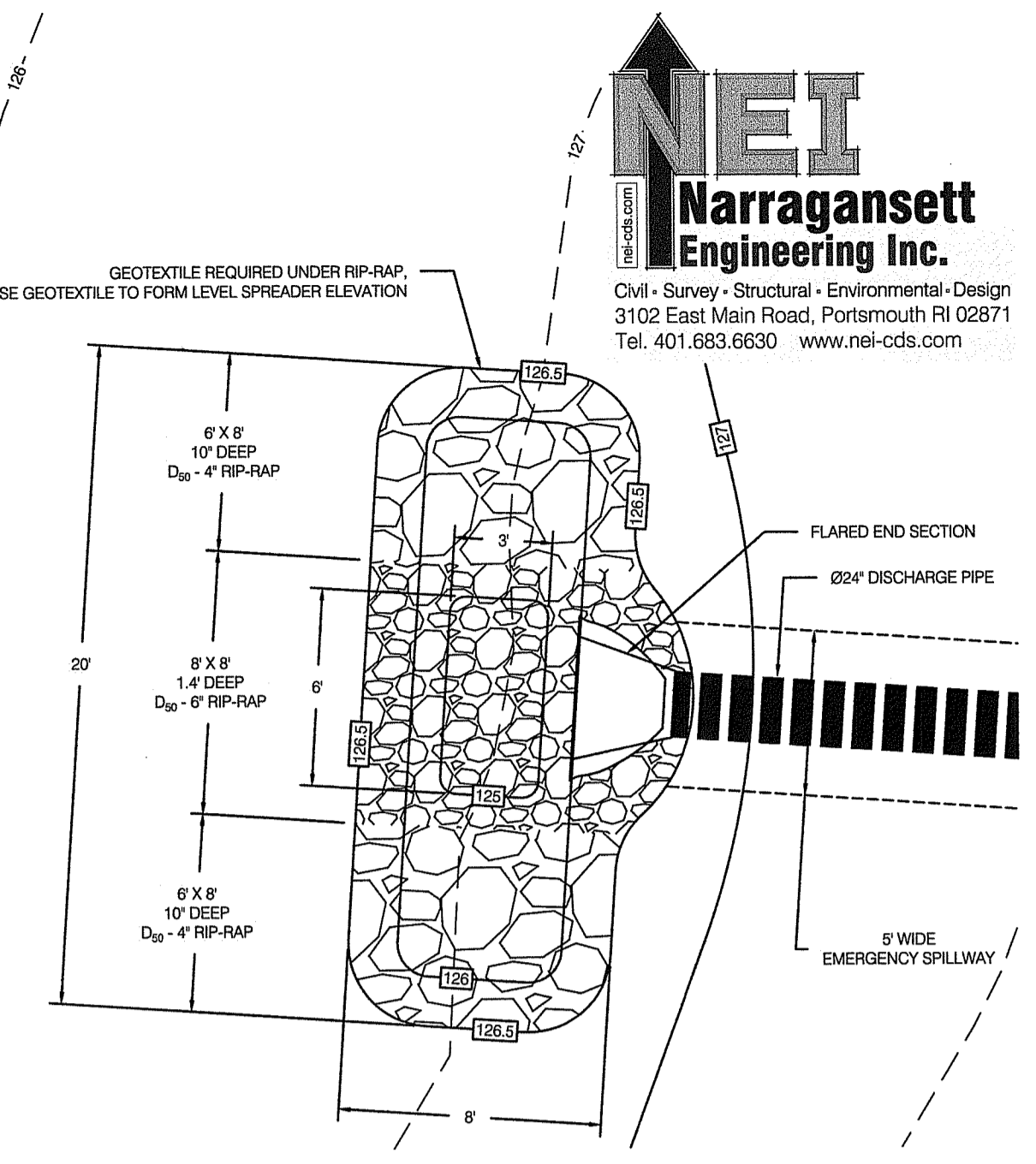
Coefficient of Uniformity, $(D_{60}/D_{10}) < 1.7$

Quantities
 Rock = 8 yd³
 Geotextile (WCS-13)* = 85 yd²

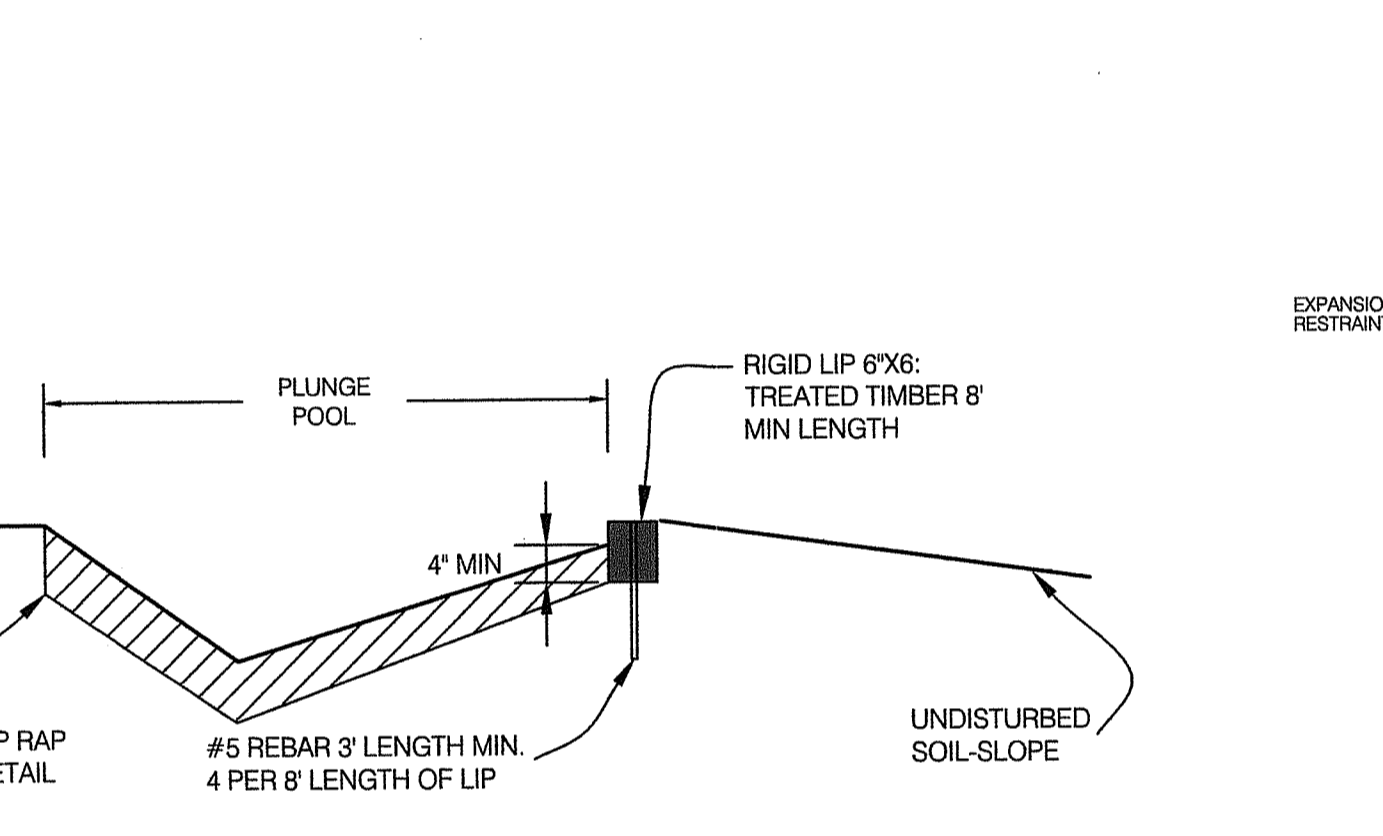
Notes: * Geotextile Class I (Non-woven) shall be overlapped and anchored (18-in. minimum along sides and 24-in. minimum on the ends) - quantity not included.



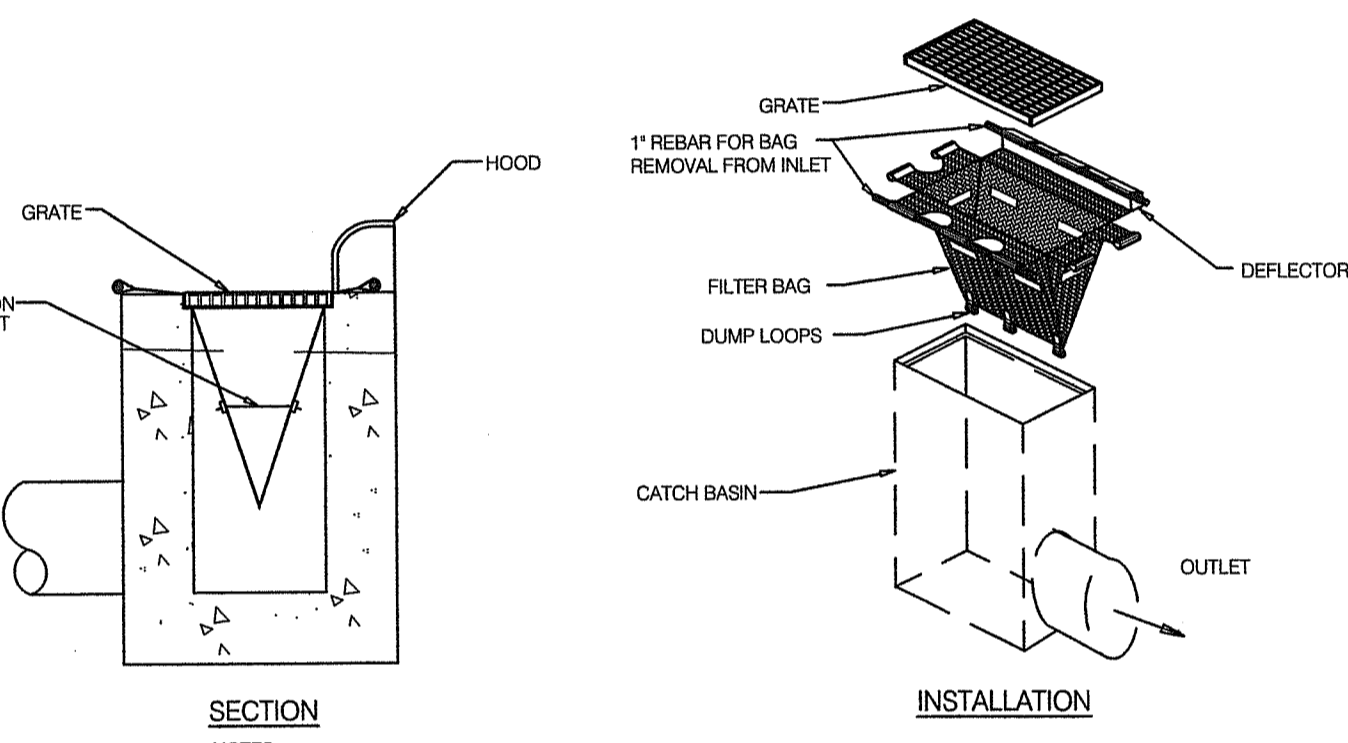
9 ROCK RIP-RAP LINED WATERWAY DESIGN
C104 SCALE: NOT TO SCALE



10 PLUNGE POOL DETAIL
C104 SCALE: 1" = 6"



11 LEVEL SPREADER WITH TIMBER
C104 SCALE: NOT TO SCALE

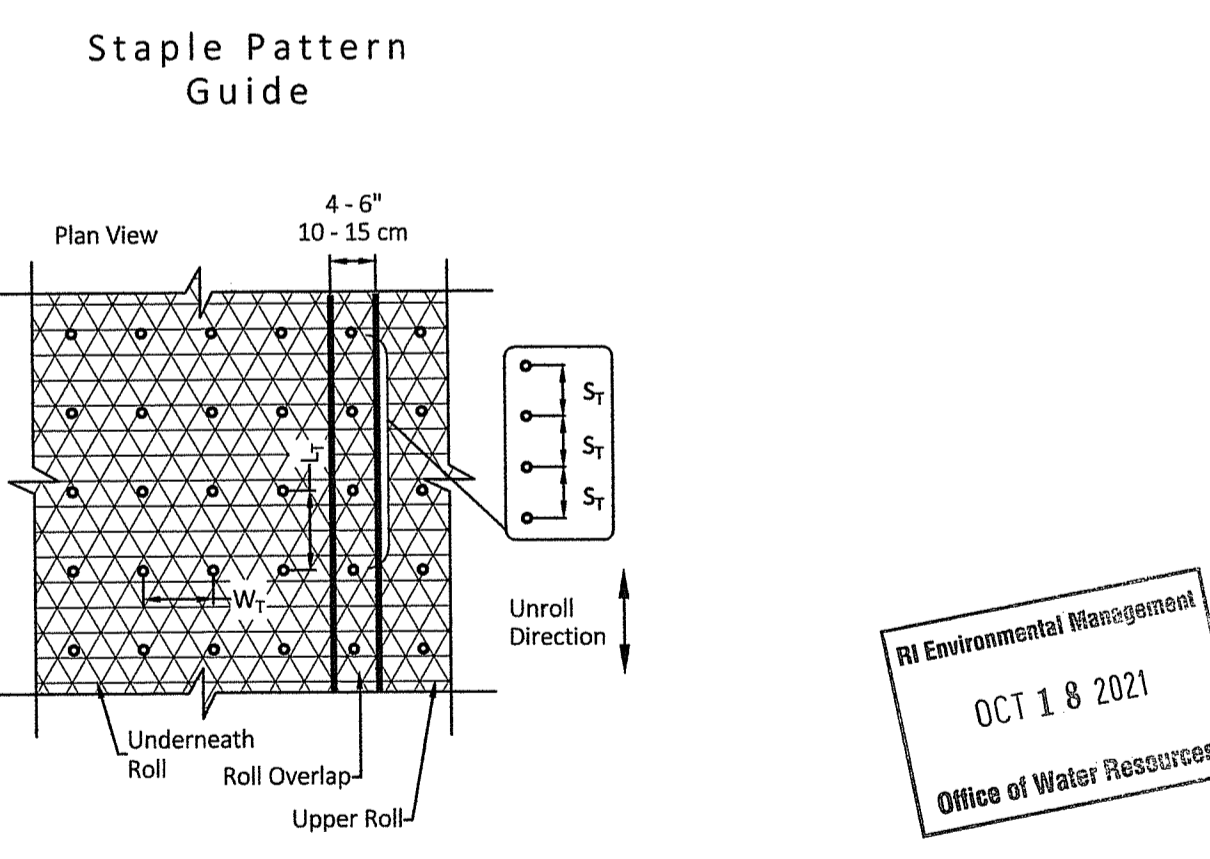


NOTES:
 1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
 2. FILTER TYPES SHALL BE APPROVED BY THE INSPECTOR PRIOR TO INSTALLATION.
 3. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
 4. FILTER BAGS SHALL BE REMOVED PRIOR TO STREET ACCEPTANCE.
 5. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
 6. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING TOWN OR RUDOT ROADS.

12 CATCH BASIN INLET PROTECTION
C104 SCALE: N.T.S.

Instructions

- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
- Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes/pins approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced approximately 12" (30 cm) apart across the width of the RECPs.
- Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide.
- Place consecutive RECPs end-over-end (shingle style) with a 4" - 6" (10 - 15 cm) overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
- Adjacent RECPs must be overlapped approximately 4" - 6" (10 - 15 cm) and secured with staples/stakes/pins at S_T .
- In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 - 12m) intervals. Use a double row of staples staggered 6" (15 cm) apart and 12" (30 cm) on center over entire width of the channel.
- The terminal end of the RECPs must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
- Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used.



Dimension	E
W_T	20" (50 cm)
L_T	20" (50 cm)
S_T	18" (45 cm)
Nominal Frequency	3.8 / SY

- ABBREVIATIONS:**
- W: WATER
 - SAN: SANITARY SEWER
 - SD: STORM DRAIN
 - G: NATURAL GAS
 - E/ELEC: ELECTRIC
 - E/EXIST: EXISTING
 - P/P/PROP: PROPOSED
 - T/W: TOP OF WALL
 - B/W: BOTTOM OF WALL

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READINESS CENTER ADDITION

OCT 18 2021
 Office of Water Resources

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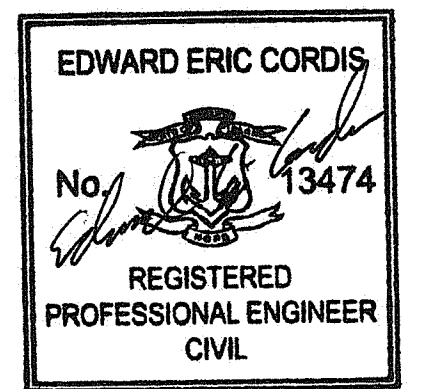
Drawing Status
FOR CONSTRUCTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF PERMITS
 Issued On: June 15th, 2021

SHEET CONTENTS
 AS SPECIFIED IN PERMIT
NOV DETAILS AND NOTES
 NO CHANGES ALLOWED WITHOUT PERMIT
 APPROVED PLANTING

Project Number: 6554
 Drawing No. **C104**
 Sheet 10 of 13 11 of 16

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 AS SPECIFIED IN THE LETTER
 NOV - 3 2021 FILE 21-0274
 DATED
 NO CHANGES ALLOWED WITHOUT THE
 APPROVED PLANS MUST BE
 [Signature]

Sheet Contents
**SOIL EVALUATION
 PROFILES**

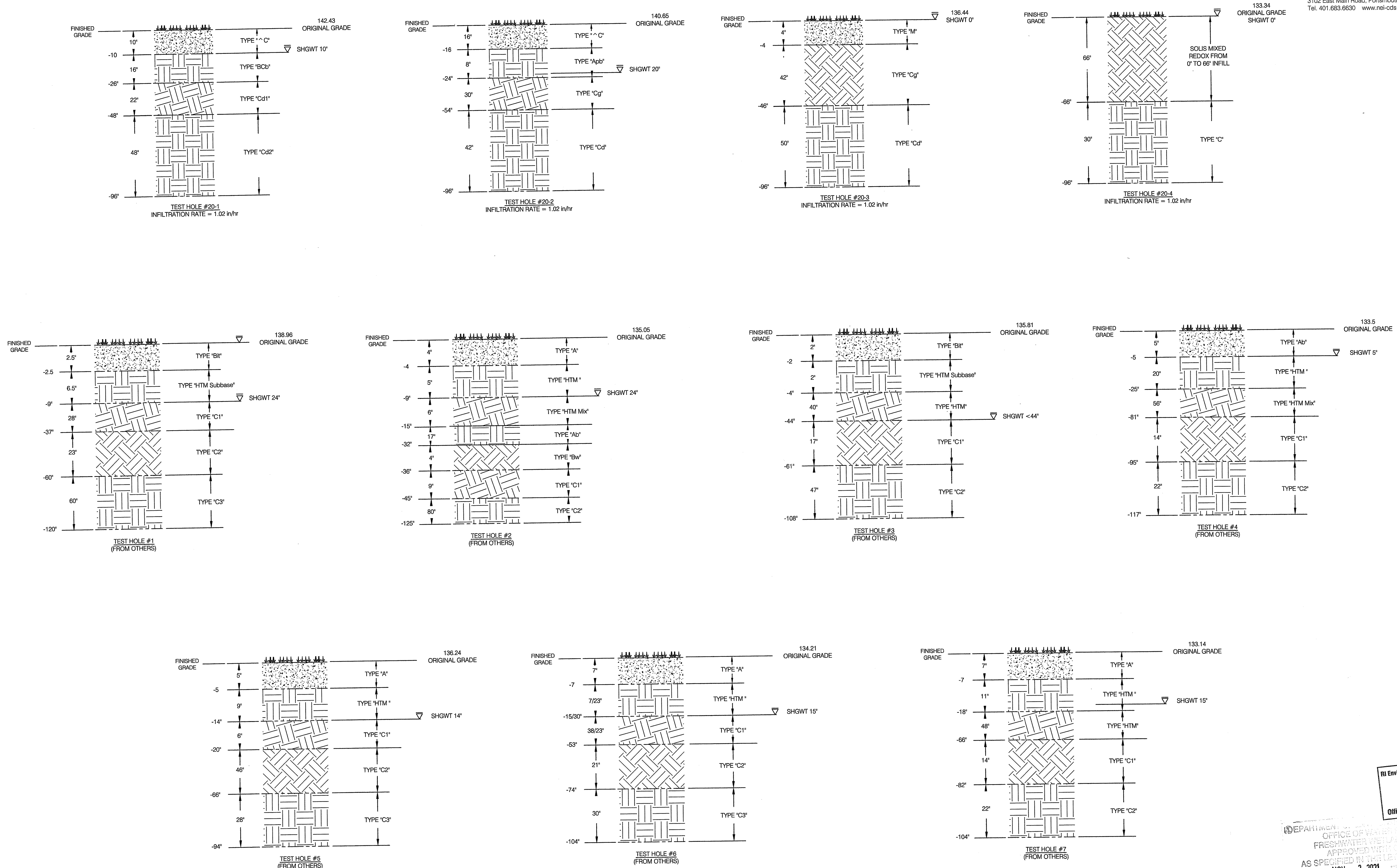
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Drawing No.

C105

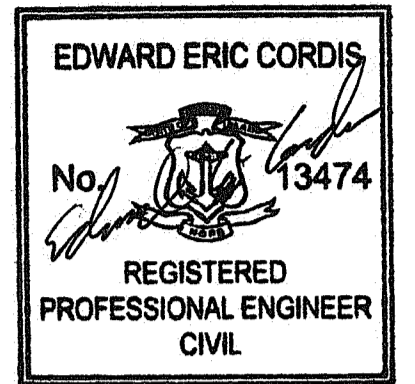
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- ABBREVIATIONS:
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 - TOW: TOP OF WALL
 - BOW: BOTTOM OF WALL



SOIL EVALUATION PROFILES
 SCALE: NOT TO SCALE

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6/14/21

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FOR CONSTRUCTION

Issued On: June 15th, 2021

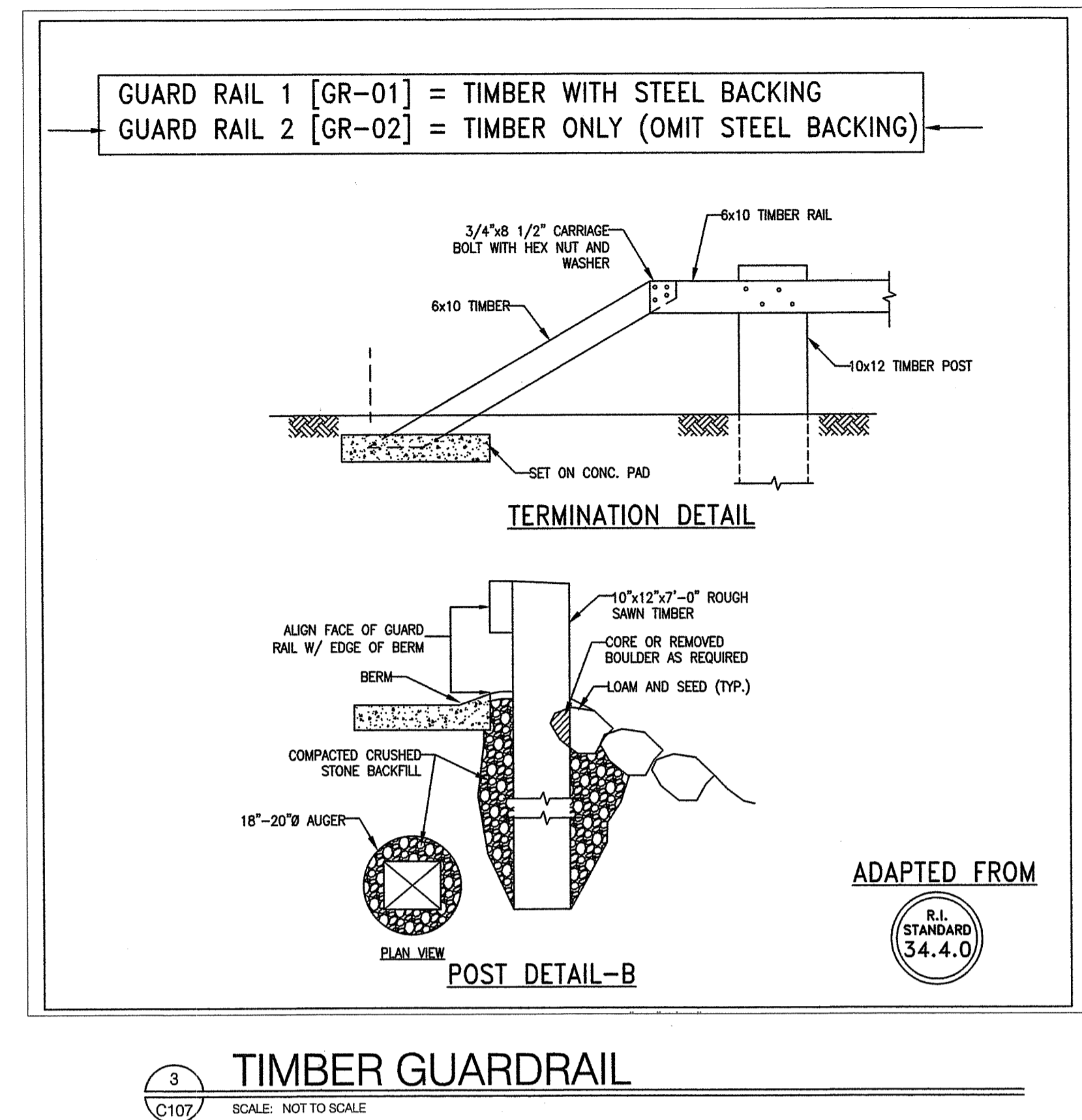
Sheet Contents
GUARD RAIL DETAILS

Project Number: 6554

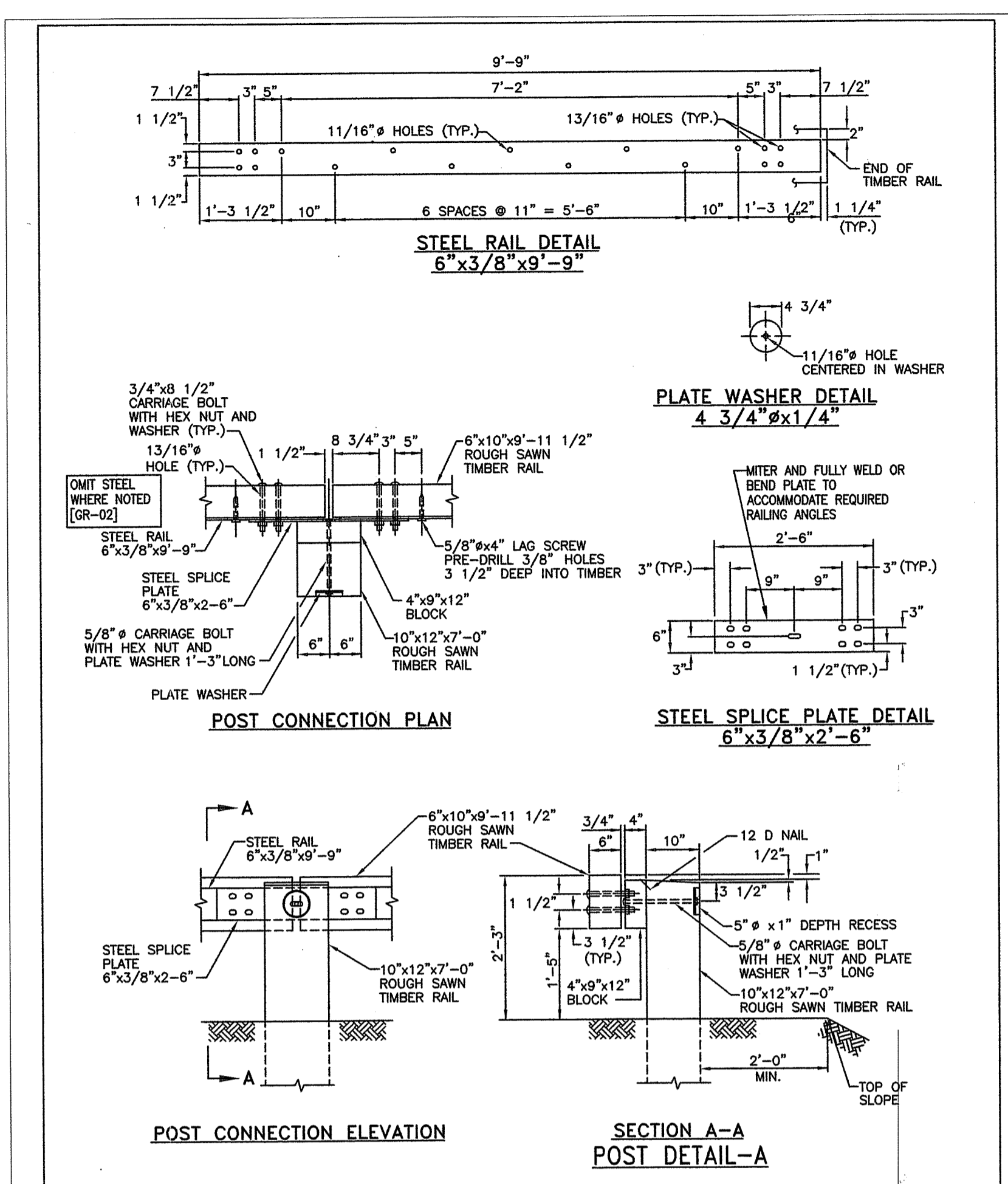
Drawing No.

C107

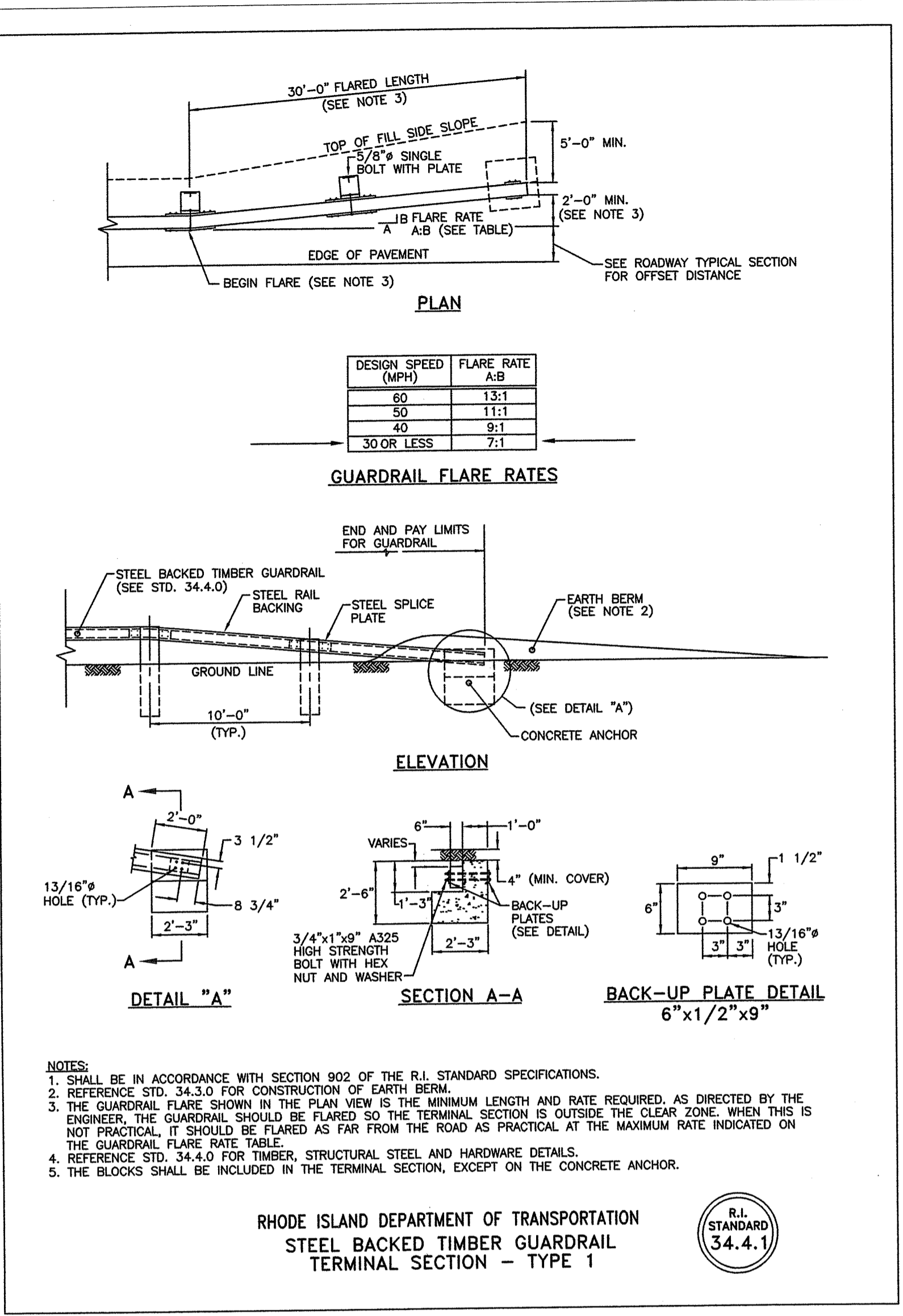
Sheet 13 of 13 14 of 16



3
C107
TIMBER GUARDRAIL
SCALE: NOT TO SCALE



2
C107
TIMBER GUARDRAIL
SCALE: NOT TO SCALE



1
C107
TIMBER GUARDRAIL
SCALE: NOT TO SCALE

- GENERAL NOTES:**
- THE STATE OF RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION. THE 2004 EDITION OF THE STANDARD SPECIFICATION MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
 - IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO APPLY FOR AND OBTAIN ANY AND ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH ARCHITECT OR ENGINEER AS NECESSARY.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE JOB SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ANY EXPOSED EXCAVATED AREAS IN ACCORDANCE WITH OSHA STANDARDS.
 - IN THE CASE THAT ANY DEVIATION / ALTERATION / OR IMPROVEMENT FROM THE APPROVED PLANS IS NECESSARY THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER PRIOR TO OCCURRENCE OF DEVIATION.
 - ALL WORK SHALL BE LIMITED TO THE AREAS WITHIN THE LIMIT OF DISTURBANCE DISPLAYED ON THESE PLANS OR PROPERTY LINE IF LIMIT OF DISTURBANCE IS UNCLEAR. ANY AREA DISTURBED OUTSIDE OF THE LIMIT OF DISTURBANCE SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER OR ENGINEER, AND PERFORMED TO THE ENGINEERS SATISFACTION.
 - ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATION SHOWN ON THESE PLANS AND/OR ACCOMPANYING SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF ANY CONFLICTS WITH EXISTING CONDITIONS OR PROPOSED CONDITIONS EXIST. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED.
 - EXCAVATED ROCK SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE OWNER. SUITABLE ROCK MAY BE UTILIZED IN FILL AREAS WITH WRITTEN PERMISSION OF THE OWNERS REPRESENTATIVES.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES THAT SERVICE THE SITE AND NEIGHBORING AREAS. IF ANY DAMAGE OCCURS TO EXISTING UTILITIES IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PAY ALL COSTS ASSOCIATED WITH REPAIR OF UTILITIES AS DIRECTED BY THE ENGINEER, UTILITY OWNER, OR GOVERNING AGENCY.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES.
 - THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. "DIG SAFE" SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION.
 - NO EXCAVATION SHALL PROCEED UNTIL UTILITY COMPANIES ARE NOTIFIED IN ADVANCE.
 - CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS WITH APPROPRIATE SEED MIXTURES. SEDIMENTATION CONTROL SHOULD NOT BE REQUIRED IF INSTALLATION AND EXCAVATION (USING AUGER) IS DONE SIMULTANEOUSLY. ANY STOCKPILES ARE AREAS NOT IMMEDIATELY LOAMED AND SEEDING SHALL COMPLY TO RI SEDIMENTATION AND EROSION CONTROL HANDBOOK.
 - NO PROPERTY SURVEYS WERE PERFORMED AS PART OF THIS PROJECT. THE OWNER TO HAVE THE PROPERTY LINE STAKED PRIOR TO CONSTRUCTION.

- MATERIAL NOTES**
- ALL EXTERIOR MATERIAL TO BE APPROPRIATELY GRADED PRESSURE TREATED OR WOLMANSIZED.
 - ALL EXTERIOR CONNECTORS TO BE DOUBLE DIPPED GALVANIZED OR STAINLESS STEEL.
- STRUCTURAL STEEL NOTES:**
- ALL WORK SHALL CONFORM TO THE A.I.S.C. CONSTRUCTION SPECIFICATIONS AND ITS CODE OF STANDARD PRACTICE.
 - MATERIAL SPECIFICATIONS:
 - W, WT SHAPES - ASTM A992 (60 KSI)
 - S.M.H.P.C. & MC SHAPES - ASTM A572 GRADE 50
 - SC AND RECTANGULAR HSS - ASTM A500, GRADE C (50 KSI)
 - L SHAPES, MISC. PLATES AND BARS - ASTM A36
 - BOLTS - ASTM A325
 - ANCHOR RODS - ASTM F1554, GRADE 36
 - ALL WELDING OPERATIONS SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS. USE E-70XX WELDING ELECTRODES.
 - STRUCTURAL STEEL CONNECTIONS SHALL USE 3/4" DIA. ASTM A325 T.C. BOLTS UNLESS OTHERWISE NOTED.
 - ALL STRUCTURAL STEEL TO RECEIVE ONE STANDARD SHOP COAT PRIMER. TOUCH UP ALL DAMAGED STRUCTURAL STEEL IN FIELD DUE TO ERECTION OR TRANSPORTATION DAMAGE.
 - SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW.

PROJECTS\20.0112_RGB-RNRNG (AIRPORT ACCESS RD)\120.0112 - RGB-RNRNG (AIRPORT ACCESS RD) DWG C107 - 6/15/2021 Eric Cordis



PLAT 112 LOT 14
BOOK 1446 PG. 235
N/F:MDR ENTERPRISES LLC.

PLAT 112 LOT 505
BOOK 687 PG. 51
N/F:BRENNAN REALTY LLC. NO. 7

PLAT 112 LOT 510
BOOK 1454 PG. 236
N/F:CUNHA TERESA M

CHAMPLIN TERR.
(PUBLIC ROW)

PLAT 112 LOT 17
BOOK 313 PG. 22
N/F:FULLER KIMBERLY B.

PLAT 112 LOT 83
BOOK 1080 PG. 30
N/F:SEAL ROCK LLC.

PLAT 112 LOT 24A
BOOK 66 PG. 543
N/F:STATE OF RHODE ISLAND AND
RI AIRPORT CORP.

PLAT 112 LOT 24A
STATE OF RHODE ISLAND &
AIRPORT CORP.

N:\PROJECTS\2012_12_RBI-RIRING (AIRPORT ACCESS RD)\10-15-21 SW DWG C300 - 10/15/2021 Eric Cordis

1S1	43,230 SQ FT	TOTAL	CN 91
	13433 SQ FT	GRASS	CN 74
	29797 SQ FT	IMPERVIOUS	CN 98
	TC = 6 MINUTES MINIMUM		
1S2	6,918 SQ FT	TOTAL	CN 84
	5657 SQ FT	GRASS	CN 74
	1361 SQ FT	DIRT ROAD	CN 87
	TC = 6 MINUTES MINIMUM		
1S3	18,628 SQ FT	TOTAL (100% ROOF)	CN 98
	TC = 6 MINUTES MINIMUM		
2S1	7,204 SQ FT	TOTAL (100% GRASS)	CN 74
	TC = 6 MINUTES MINIMUM		
2S2	30,017 SQ FT	TOTAL	CN 95
	25,191 SQ FT	IMPERVIOUS	CN 98
	4,826 SQ FT	GRASS	CN 97
	TC = 6 MINUTES MINIMUM		
2S3	25,812 SQ FT	TOTAL (100% GRASS)	CN 74
	TC = 15.4 MINUTES		
2S4	30,605 SQ FT	TOTAL	CN 95
	26,912 SQ FT	IMPERVIOUS	CN 98
	3,693 SQ FT	GRASS	CN 74
	TC = 6 MINUTES MINIMUM		
3S1	17,380 SQ FT	TOTAL (100% GRASS)	CN 74
	TC = 16.3 MINUTES		

PLAN REFERENCE:
1. 'ARMORY FOR THE ARMY NATIONAL GUARD'
NEWPORT STATE AIRPORT, MIDDLETOWN, CIVIL AS-
BUILT DRAWINGS SHEETS C-1 TO C-15, PREPARED BY
DAVID PRESSBY ARCHITECT, DATED 3/30/1984
2. 'EXHIBIT A' PREPARED FOR THE RHODE ISLAND
NATIONAL GUARD MILITARY STAFF OFFICE OF THE
ADJUTANT GENERAL, PREPARED BY CROSSMAN
ENGINEERING, DATED MARCH, 2019.
NOTE: PROPERTY LINE OWNERSHIP INFORMATION
PROVIDED BY RIANG. LAND EVIDENCE NOT YET
UPDATED.

NET
Narragansett
Engineering Inc.
Civil - Survey - Structural - Environmental - Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.net-cds.com

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EDWARD ERIC CORDIS
No. 13474
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
6/12/21

Drawn by LD
Checked by NKH & EC
Revised on

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Fax: (401) 273-7156
E-mail: rgbinfo@rgb.net
www.rgb.net
Architecture - Project Management - Interior Design
Project

RI ARMY
NATIONAL GUARD



READINESS
CENTER
ADDITION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLAND PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 3 2021 FILE # 21-0274
NO CHANGES ALLOWED WITHOUT THE APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Douglas L. Freeman

106 AIRPORT ACCESS RD
MIDDLETOWN, RI 02842

Office of Water Resources
Drawing Status
FOR CONSTRUCTION
OCT 1 8 2021

Issued On: June 15th, 2021

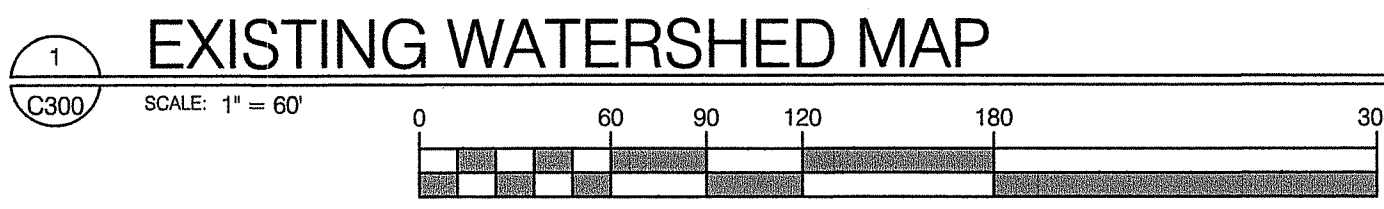
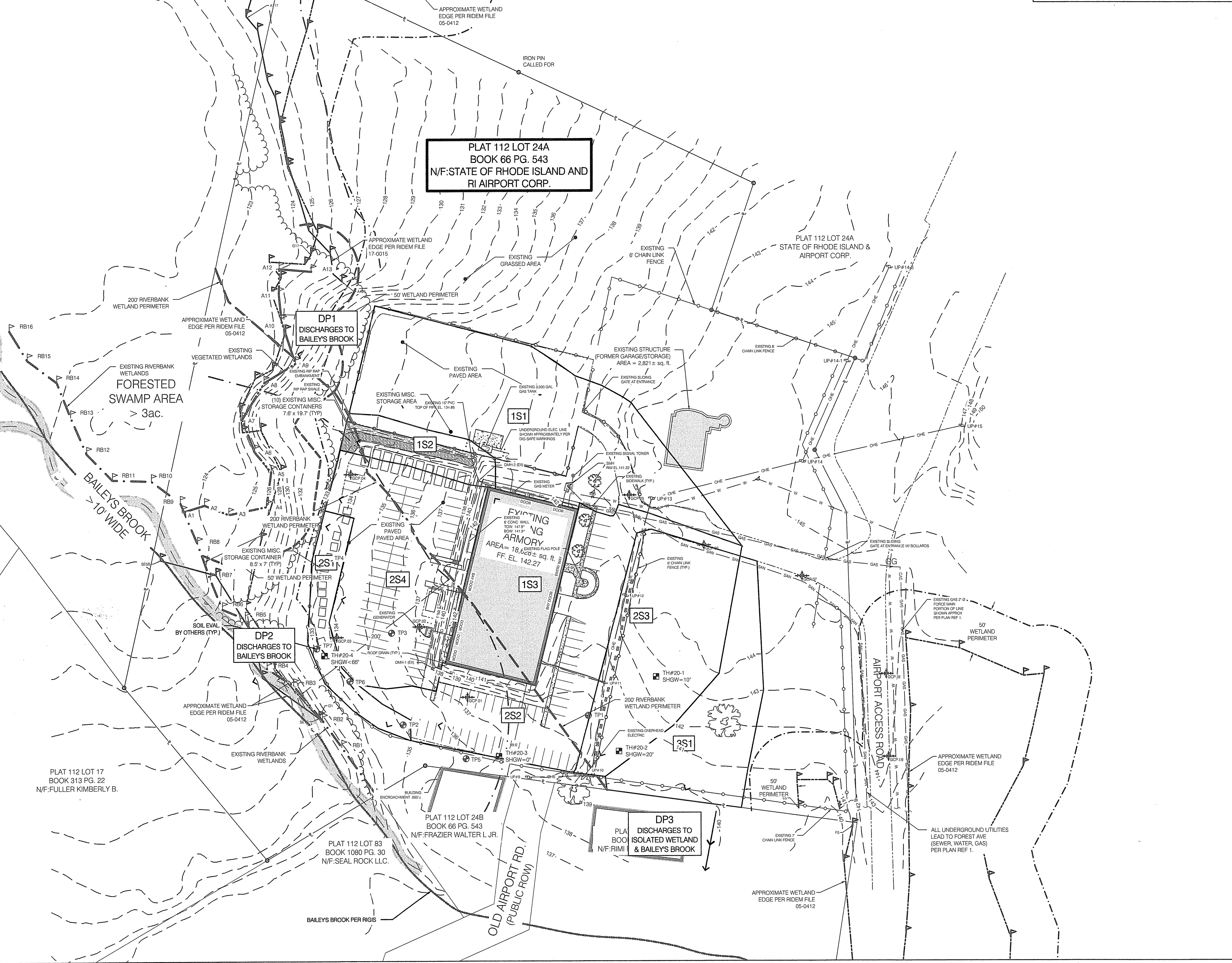
Sheet Contents
EXISTING
WATERSHED MAP

Project Number. 6554

Drawing No.

C300

Sheet 18 of 15 - 15 of 16

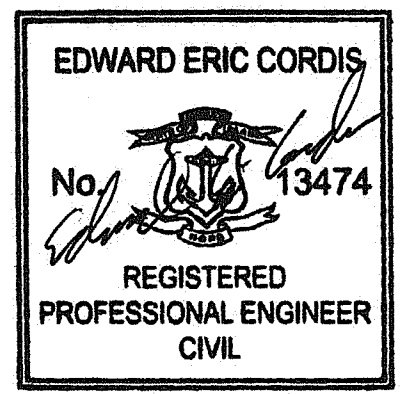




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 1. 'ARMORY FOR THE ARMY NATIONAL GUARD' NEWPORT STATE AIRPORT, MIDDLETOWN, CIVIL AS-BUILT DRAWINGS SHEETS C-1 TO C-15, PREPARED BY DAVID PRESSBY ARCHITECT, DATED 3/30/1984
 2. 'EXHIBIT A' PREPARED FOR THE RHODE ISLAND NATIONAL GUARD MILITARY STAFF OFFICE OF THE ADJUTANT GENERAL, PREPARED BY CROSSMAN ENGINEERING, DATED MARCH, 2019.
 NOTE: PROPERTY LINE OWNERSHIP INFORMATION PROVIDED BY RIANG. LAND EVIDENCE NOT YET UPDATED.

NEI
Narragansett
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 Civil - Survey - Structural - Environmental - Design
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6/19/21

Drawn by LD
 Checked by NKH & EC
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 www.rgb.net
 Architecture - Project Management - Interior Design
 Project

RI ARMY
 NATIONAL GUARD

 READINESS
 CENTER
 ADDITION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER PROTECTION
 FRESHWATER WETLANDS PERMITS
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF PERMIT
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 NO CHANGES ALLOWED WITHOUT APPROVAL
 APPROVED PLANS MUST BE AT CURRENT SCALE
 Nancy L. Freeman

106 AIRPORT ACCESS RD
 MIDDLETOWN, RI 02842
 Drawing Status
FOR CONSTRUCTION

RI Environmental Management
 OCT 18 2021
 Office of Water Resources
 June 15th, 2021

Sheet Contents
**PROPOSED
 WATERSHED MAP**

Project Number. 6554
 Drawing No.
C301
 Sheet 14 of 45 16 of 16

N:\PROJECTS\20.0112_RGB-RIRANG (AIRPORT ACCESS RD)\10-15-21\515M.DWG C301 --- 10/15/2021 Eric Cordis

1S1	43,230 SQ FT	TOTAL	CN 92
	11248 SQ FT	GRASS	CN 74
	31982 SQ FT	IMPERVIOUS	CN 98
	TC = 6 MINUTES MINIMUM		
1S2	6,918 SQ FT	TOTAL	CN 86
	1204 SQ FT	GRASS	CN 74
	5108 SQ FT	DIRT ROAD	CN 98
	606	IMPERVIOUS	CN 86
	TC = 6 MINUTES MINIMUM		
1S3	18,628 SQ FT	TOTAL (100% ROOF)	CN 98
	TC = 6 MINUTES MINIMUM		
2S1	5063 SQ FT	TOTAL	CN 86
	2486 SQ FT	WATER SURFACE	CN 98
	2577 SQ FT	GRASS	CN 74
	TC = 6 MINUTES MINIMUM		
2S2	32,500 SQ FT	TOTAL	CN 91
	23295 SQ FT	IMPERVIOUS	CN 98
	9205 SQ FT	GRASS	CN 74
	TC = 6 MINUTES MINIMUM		
2S2A	15,746 SQ FT	TOTAL	CN 76
	1,293 SQ FT	IMPERVIOUS	CN 98
	14,453 SQ FT	GRASS	CN 74
	TC = 6 MINUTES MINIMUM		
2S3	9,106 SQ FT	TOTAL (100% GRASS)	CN 79
	TC = 6 MINUTES MINIMUM		
2S4	38,428 SQ FT	TOTAL	CN 92
	23,993 SQ FT	IMPERVIOUS	CN 98
	8,823 SQ FT	GRASS	CN 74
	TC = 6 MINUTES MINIMUM		
2S5	8,714 SQ FT	TOTAL (100% ROOF)	CN 98
	TC = 6 MINUTES MINIMUM		
3S1	7,062 SQ FT	TOTAL (100% GRASS)	CN 74
	TC = 6 MINUTES MINIMUM		

