

QUONSET DEVELOPMENT CORP. AND KENT COUNTY WATER AUTHORITY RETAIL WATER CONNECTION

EAST GREENWICH, RHODE ISLAND
FEBRUARY 2020

(REVISED AUGUST 2020)

INDEX OF DRAWINGS		
SHEET NO.		DESCRIPTION
SHEET 1 OF 6	C-0	COVER SHEET
SHEET 2 OF 6	SP-1	STORMWATER AND SOIL EROSION PLAN
SHEET 3 OF 6	SP-2	STORMWATER AND SOIL EROSION PLAN II
SHEET 4 OF 6	D-2	DETAILS II
SHEET 5 OF 6	D-3	EROSION AND CONTROL DETAILS
SHEET 6 OF 6	E-2	ELECTRICAL PLANS AND DETAILS

Environmental Management
Permit Application Center
AUG 18 2020



NOT TO SCALE

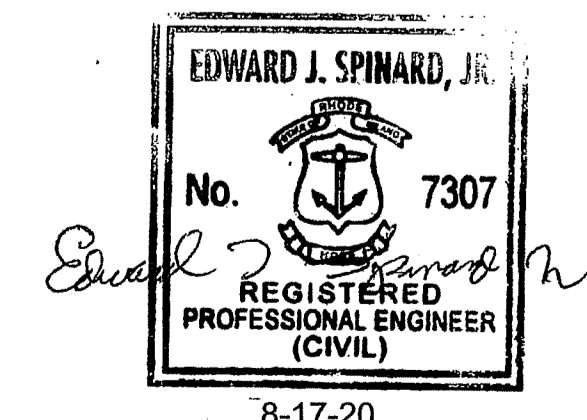
PROJECT LOCATION



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **DEC 04 2020** FILE # **20-0102**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Edward J. Spinard, Jr.

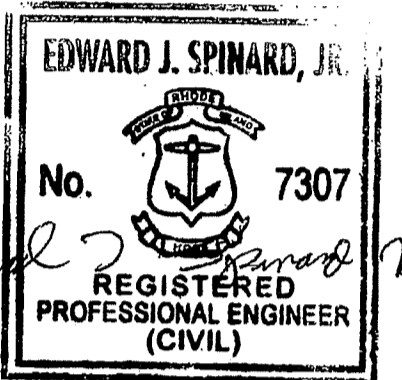
QUONSET
DEVELOPMENT CORPORATION
Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
(401) 268-9885



QUONSET
DEVELOPMENT CORPORATION
AUTHORIZED FOR BID
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR



Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
Fax: (401) 268-9885



NO.	REVISION	DATE	APP.
1.	RIDEM COMMENTS	8/2020	GC

DESIGN BY	GEC	CHECKED BY	EJS
DRAWN BY	GEC	ENGINEER	EJS
SCALE	1" = 30'	PROJECT NO.	

CONTRACT NO.
FILE NAME 2020-03-26_QBP-KCWA CONNECTION TOPO-GEC-CHANGE

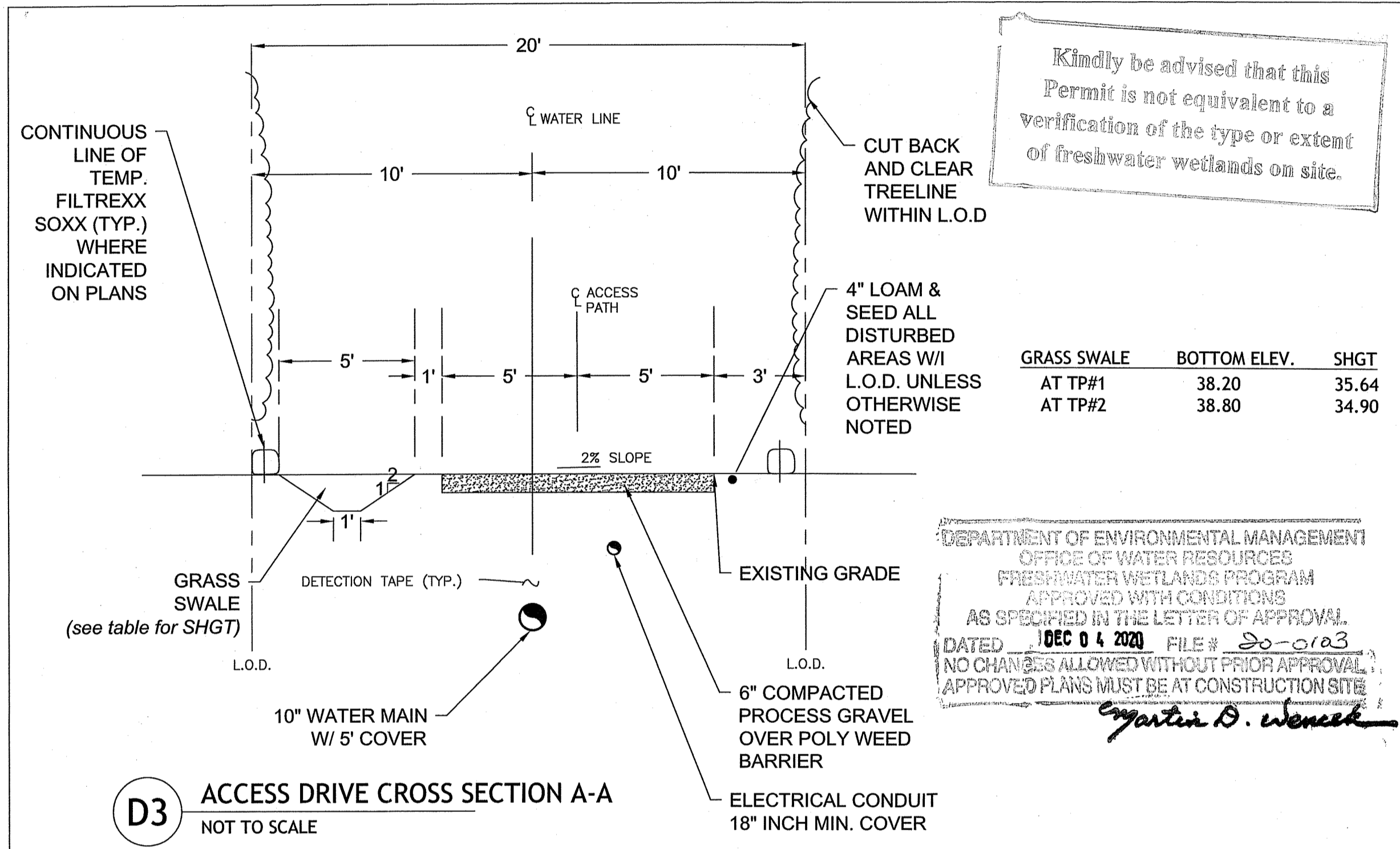
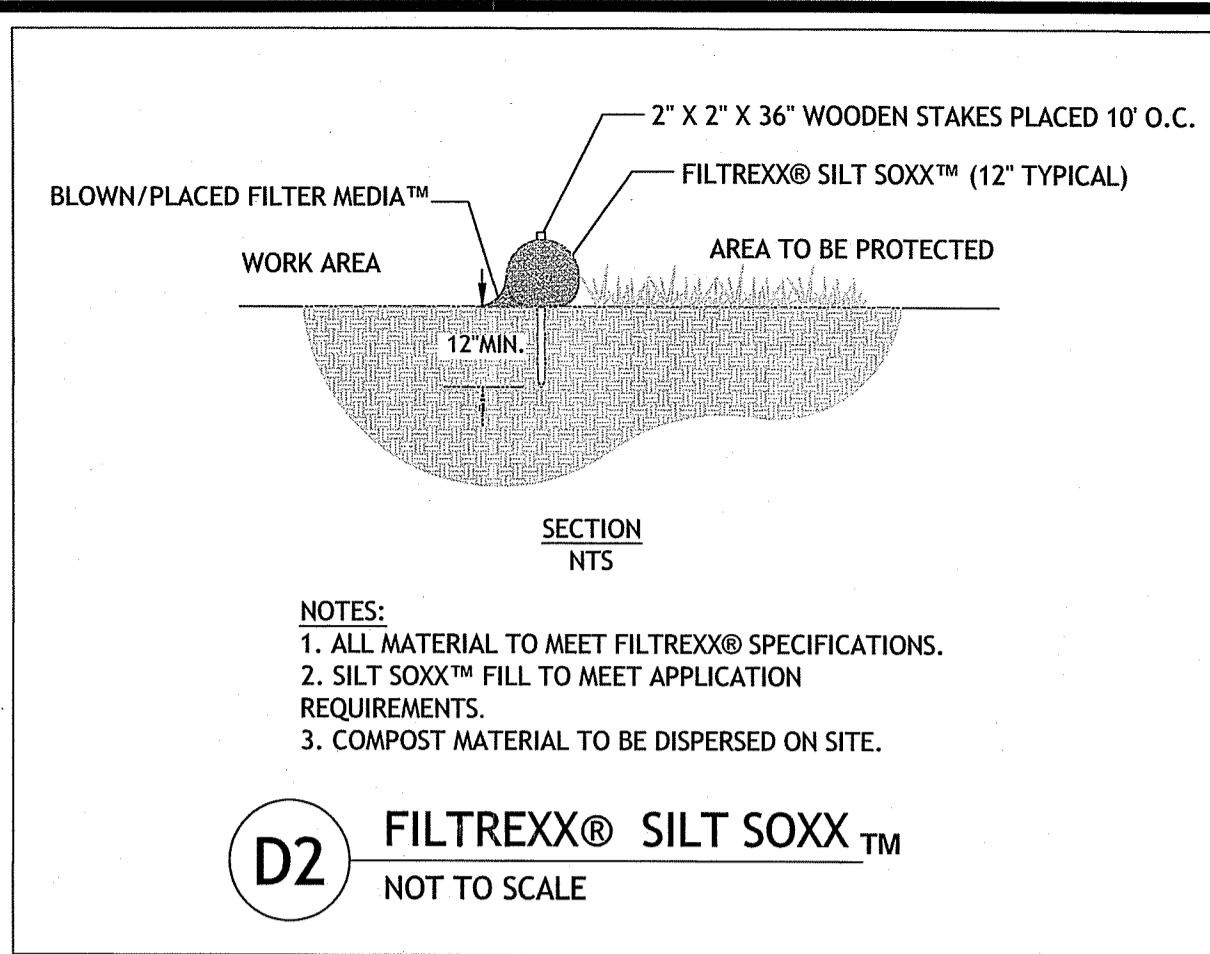
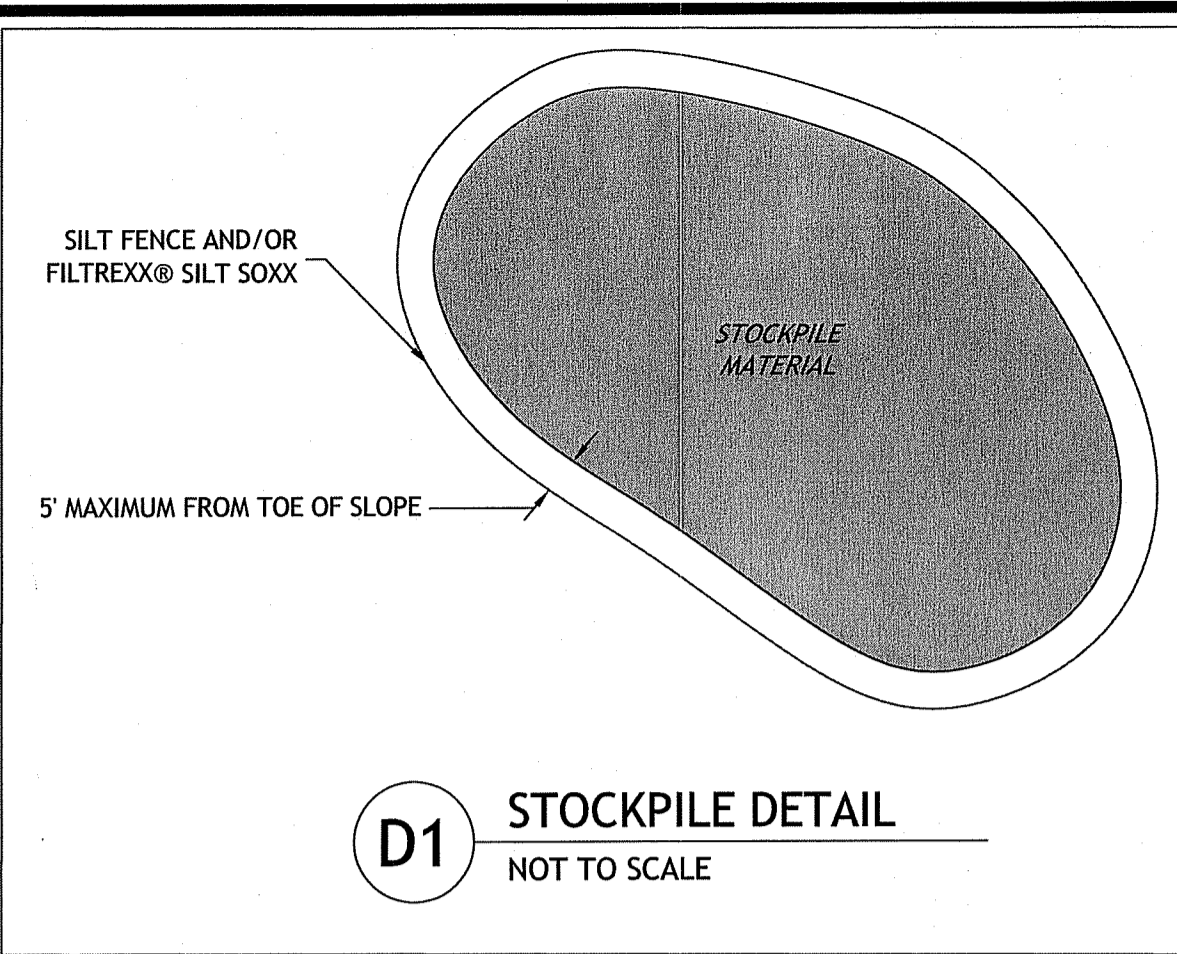
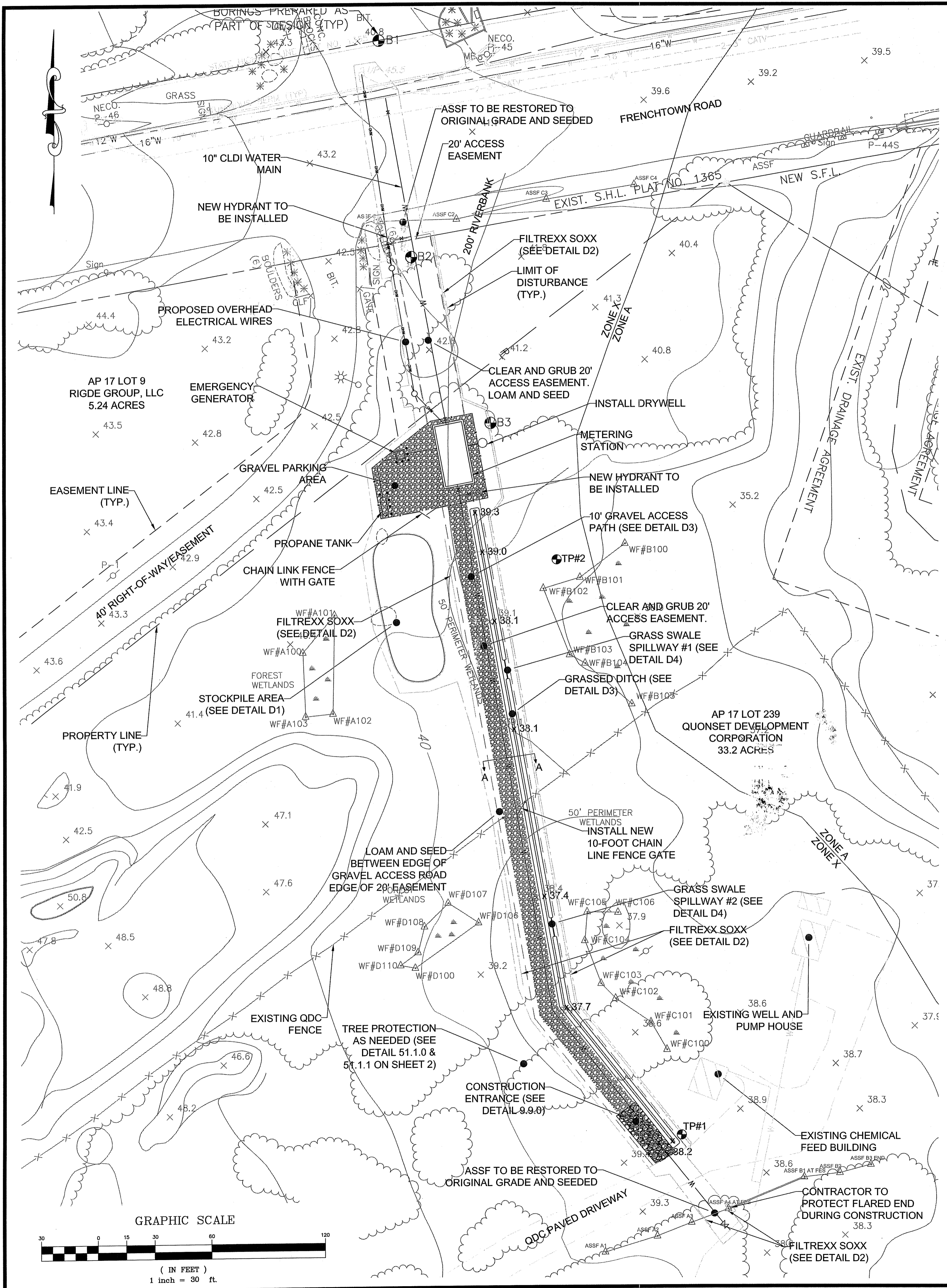
APPROVED
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR
DATE 4-8-20

**QDC - KCWA
RETAIL WATER
SERVICE CONNECTION**
Quonset Development Corporation
Quonset, Rhode Island

**STORMWATER &
SOIL & EROSION PLAN**

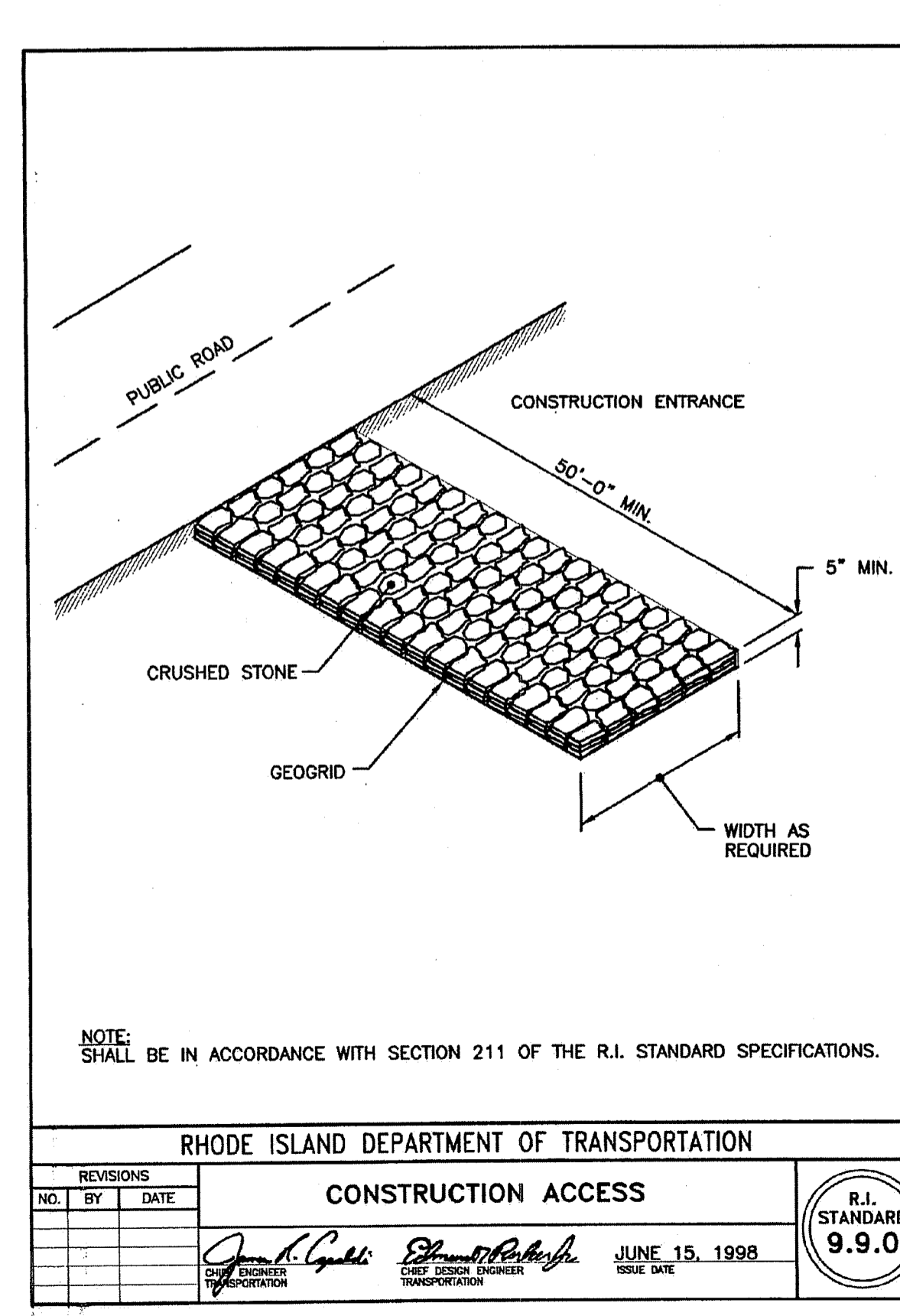
Quonset Business Park

SHEET NO. **SP-1** DRAWING NO.
OF 2 SHEETS



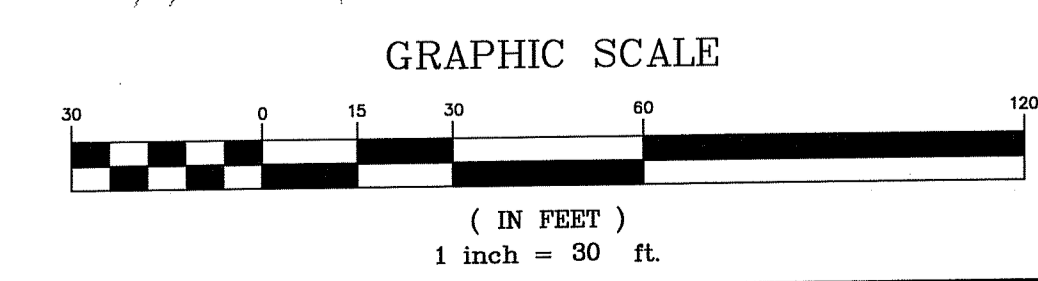
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL.
DATED **DEC 04 2020** FILE # **20-0123**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Stephen D. Wenzel



- NOTES**
- CLEAR AND GRUB ALL LOCATIONS WITHIN AREA OF L.O.D.
 - ALL BRUSH, DEBRIS, AND UNSUITABLE MATERIAL TO BE REMOVED AND PROPERLY DISPOSED OFFSITE.
 - CONTRACTOR TO ENSURE THAT ALL EROSION AND SEDIMENTATION CONTROLS ARE IN PLACE PRIOR TO CONSTRUCTION AT THIS LOCATION.
 - WORK IN THIS AREA SHALL BE PERFORMED DURING PERIODS OF NO PRECIPITATION.
 - CONTRACTOR SHALL UTILIZE A TRENCH BOX WHEN EXCAVATING IN REGULATED AREAS AND SHALL MINIMIZE WIDTH AND DEPTH OF EXCAVATION TO THAT NECESSARY TO INSTALL UTILITIES.
 - ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02200.
 - CONTRACTOR SHALL RETURN EXCAVATED SOILS AS BACKFILL FOR UTILITY INSTALLATION UNLESS THESE MATERIALS ARE DETERMINED TO BE UNSUITABLE. (I.E. ROCK, SILT, ETC.)
 - IN THE EVENT THAT UNSUITABLE MATERIALS ARE ENCOUNTERED THEY SHALL BE REMOVED OFF-SITE AND BACKFILL COMPLETED WITH A WELL GRADED GRAVEL MATERIAL.
 - DEWATERING OF FLOWS FROM EXCAVATION SHALL BE COMPLETED IN ACCORDANCE WITH THE NOTES ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
 - PRIOR TO BEGINNING ANY WORK IN THE LOCATION OF THE FACILITY ACCESS ROAD, CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN FOR INSTALLATION OF UTILITIES THROUGH THIS AREA WHICH IS CONSISTENT WITH RIDEM REGULATIONS AND SOIL CONSERVATION SERVICES, EROSION, AND SEDIMENTATION CONTROL MEASURES. THIS PLAN SHALL BE REVIEWED BY THE ENGINEER AND A FIELD MEETING SHALL BE CONDUCTED PRIOR TO BEGINNING THE CONSTRUCTION.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
JUNE 15, 1998
R.I. STANDARD 9.9.0



**SOIL EROSION AND
SEDIMENT CONTROL NOTES**

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE SOIL EROSION CONTROL MEASURES SHOWN AND DETAILED HEREIN SHOULD BE CONSIDERED THE MINIMUM ACCEPTABLE STANDARDS FOR THE PROJECT. THE INITIAL METHOD OUTLINED IS INTENDED TO ROUTE ALL PRACTICABLE SURFACE WATER FROM THE EXCAVATION AREAS INTO EROSION CONTROL FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST AND INSTALL ANY ADDITIONAL PROTECTIVE MEASURES NECESSARY TO CONTROL RUNOFF FROM THE SITE DURING CONSTRUCTION ACTIVITIES AND ENSURE THAT THE PROJECT SITE AND ALL ADJACENT PROPERTIES ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
3. PRIOR TO COMMENCEMENT OF SITE PREPARATION OR EARTHWORK THE CONTRACTOR SHALL IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN(SESCEP).
4. CONTRACTOR SHALL STAKE OUT THE LIMIT OF WORK IN THE FIELD TO ENSURE THAT ALL WORK WILL OCCUR WITHIN THE APPROVED LIMITS OF DISTURBANCE.
5. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES ON SITE, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON SITE TO ESTABLISH SUPERVISORY AND INSPECTION PROCEDURES FOR SEDIMENT AND EROSION CONTROL MEASURES. THE MEETING SHALL BE ATTENDED BY THE CONTRACTOR AND A REPRESENTATIVE FROM QDC.
6. THE EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL & MAINTAIN EROSION CONTROL DEVICES FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
7. THE EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY RAINSTORM TO ENSURE THEY ARE FUNCTIONING PROPERLY. REPAIR ANY DAMAGED AREAS IMMEDIATELY AND REMOVE ALL CAPTURED SEDIMENT AS REQUIRED. A "WALK THROUGH" INSPECTION OF THE CONSTRUCTION SITE SHOULD BE COMPLETED BEFORE ANTICIPATED RAINFALL EVENTS.
8. ADDITIONAL EROSION CONTROL MEASURES SHALL BE PLACED AS DIRECTED BY QDC.
9. DEWATERING OF ALL EXCAVATIONS SHALL BE PUMPED THROUGH DEWATERING BAGS AND DISCHARGED INTO A TEMPORARY SILTATION BASIN WITHIN THE APPROVED PROJECT LIMIT OF DISTURBANCE.
10. AT NO TIME SHALL SILT LADEN WATER BE ALLOWED TO ENTER ENVIRONMENTALLY SENSITIVE AREAS, EXISTING OR NEW DRAINAGE SYSTEMS. RUNOFF FROM DISTURBED AREAS SHALL BE DIRECTED THROUGH A TEMPORARY SILTATION BASIN & EROSION CONTROL MEASURES PRIOR TO ENTERING ANY ENVIRONMENTALLY SENSITIVE AREA OR DRAINAGE SYSTEM.
11. CONTRACTOR SHALL REDUCE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES CAUSED BY CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES SHALL BE SO SCHEDULED SO THAT THE LEAST AREA OF DISTURBED SOIL IS EXPOSED AT ONE TIME. IN DISTURBED AREAS NOT SUBJECT TO TRAFFIC, CONTRACTOR SHALL USE TEMPORARY SEEDING AND MULCHING OPERATIONS. IN DISTURBED AREAS SUBJECT TO TRAFFIC, CONTRACTOR SHALL SPRINKLE SURFACE WITH WATER TO MINIMIZE DUST. DUST CONTROL MEASURES SHALL BE MAINTAINED THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
12. ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVEMENT OR OTHER GROUND COVER SHALL BE PLANTED WITH GRASS ON 4" THICKNESS OF TOPSOIL. IF SEEDING CANNOT BE COMPLETED IMMEDIATELY, DISTURBED AREAS SHALL BE STABILIZED WITH A SPREAD HAY MULCH APPROPRIATELY ANCHORED OR EROSION CONTROL BLANKET.
13. SURFACE STABILIZATION MUST BE IMPLEMENTED WITH 14 DAYS AFTER CONSTRUCTION ACTIVITY IN A PORTION OF THE SITE HAS CEASED OR BEEN TEMPORARILY HALTED.
14. THE CONTRACTOR SHALL INSTALL REINFORCED SILT BARRIER AROUND STOCKPILE AREAS, TRUCK WASH DOWN AREAS AND VEHICLE REFUELING AREAS.
15. AS SOON AS CONSTRUCTION IS COMPLETED, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT AND DEBRIS. THEREAFTER, CLEAN UP SHOULD FOLLOW LONG TERM MAINTENANCE PLAN.
16. THE CONTRACTOR SHALL REMOVE CONSTRUCTION FENCE, SILT BARRIER AND EROSION CONTROL MEASURES ONLY AFTER ESTABLISHMENT OF PERMANENT VEGETATION.
17. CONTRACTOR SHALL COMPLY WITH THE "SOIL EROSION AND SEDIMENTATION CONTROL PLAN".

BMP MAINTENANCE NOTES

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - B. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
2. UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. ALL INSTALLATION, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 212 AND SECTION 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE INSTALLATION, CLEANING, INSPECTION, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRM, 2010).
4. AFTER CONSTRUCTION, STORMWATER BMPs SHALL BE INSPECTED AND MAINTAINED BY THE TENANT AS FOLLOWS:

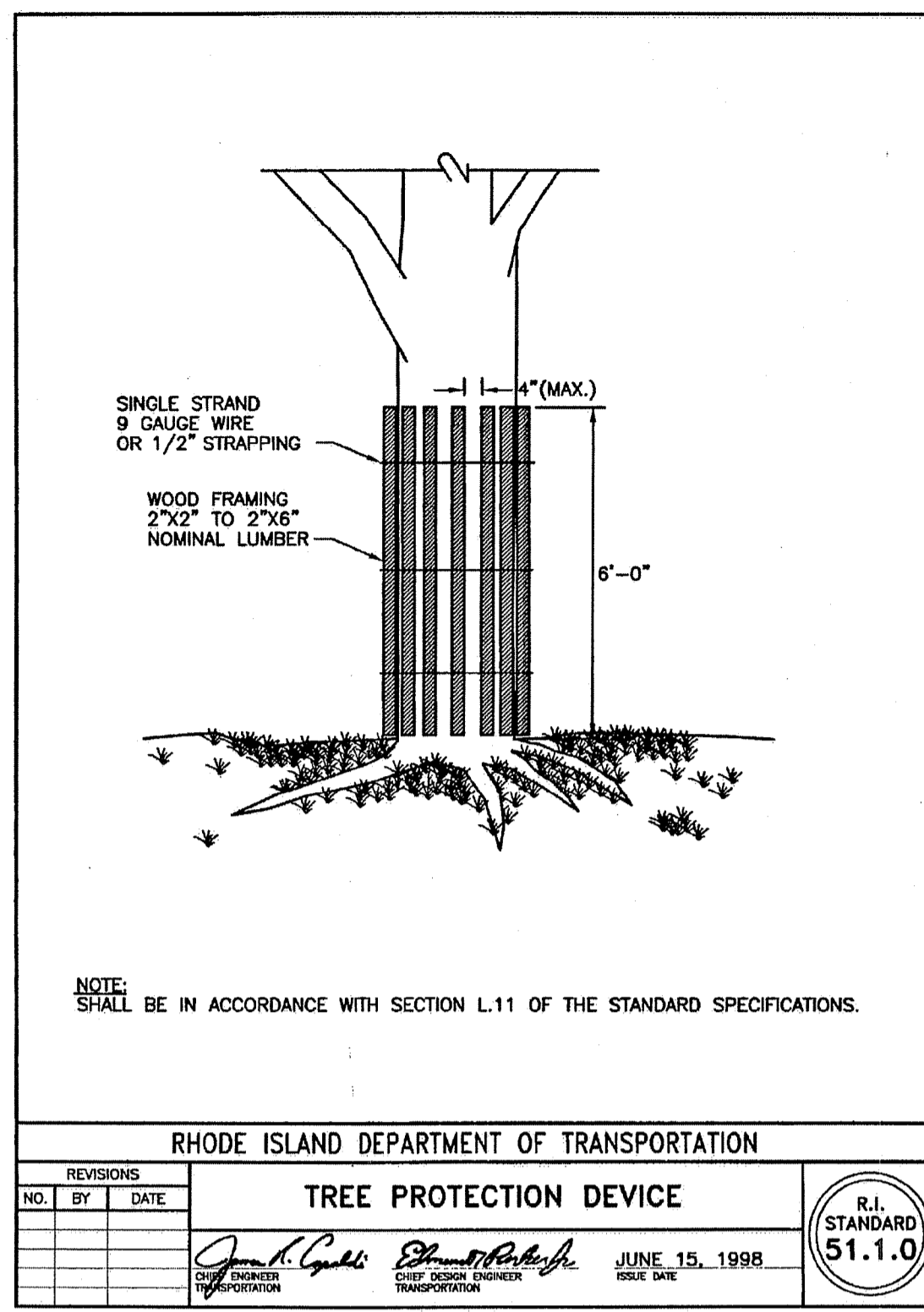
GRASS SWALE

 - DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE GRASS SWALE SHALL BE INSPECTED AFTER THE FIRST TWO RAINFALL EVENTS OF AT LEAST 1.0 INCH TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL TO 2 INCHES.
 - SEDIMENT SHALL BE CLEANED OUT OF THE GRASS SWALE WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN 1/4 THE DESIGN DEPTH. THE GRASS SWALE OUTLET DEVICES SHALL BE CLEANED/REPAIRED WHEN DRAWDOWN TIMES EXCEEDS 48 HOURS. TRASH AND DEBRIS SHALL BE REMOVED AS NECESSARY.

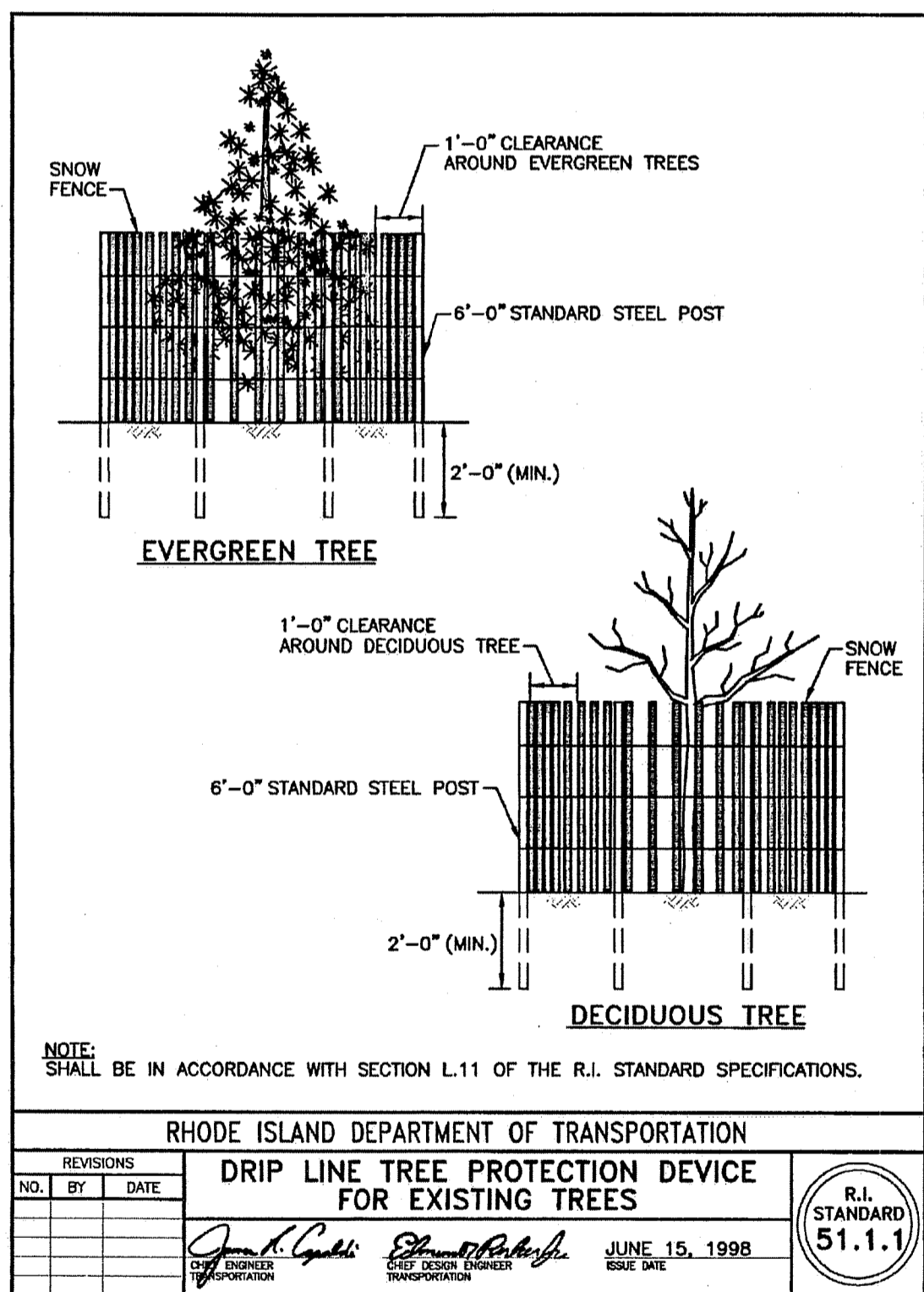
QUONSET DEVELOPMENT CORPORATION (QDC) SHALL HAVE THE AUTHORITY TO INSPECT BEST MANAGEMENT PRACTICES (BMPs) AND MAINTENANCE RECORDS. ANY MAINTENANCE IDENTIFIED BY QDC THAT IS REQUIRED SHALL BE THE COMPLETED AT THE TENANT'S EXPENSE.

FLOOD PLAIN NOTES

1. THIS PROJECT SITE IS LOCATED WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AND ZONE "A" (SPECIAL FLOOD HAZARD AREAS WITHOUT BASE FLOOD ELEVATION) AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF EAST GREENWICH, RHODE ISLAND, COUNTY, COMMUNITY PANEL NO. 44003C0138G, HAVING AN EFFECTIVE DATE OF DECEMBER 3, 2010 AND AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF NORTH KINGSTOWN, RHODE ISLAND, COUNTY, COMMUNITY PANEL NO. 44009C0013H, HAVING AN EFFECTIVE DATE OF OCTOBER 19, 2010.
2. THE FEMA FLOOD LINE WAS AFFIXED TO THE PLAN SET USING THE RIGIS DATA FOR THE FEMA FLOOD INSURANCE.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
TREE PROTECTION DEVICE
R.I. STANDARD 51.1.0
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
R.I. STANDARD 51.1.1
JUNE 15, 1998

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment Systems Program

Site Evaluation Form
Part A - Soil Profile Description Application Number NA

Property Owner: Quonset Development Corporation
Property Location: Frenchtown Rd. (AP 17 Lot 239) East Greenwich, RI
Date of Test Hole: July 6, 2020
Soil Evaluator: Chris Sutter License Number: D-4077 Shaded: Yes No Time: 8:00 am
Weather: Clear, 70's

TH 1 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.					
HTM	0-14"	C	S					mixed			Fill
C	14-42"	C	S	2.5Y 5/4				gs	0-sg	L	1
2C	42-108"			2.5Y 5/2	7.5YR 5/8	C	3 P	sil	0-m	fri	7

TH 2 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.					
HTM	0-48"	C	S					mixed			Fill
Ab	48-55"	C	S	10YR 2/1				sil	1-sbk	fri	4
Bw	55-70"	C	S	2.5Y 5/4				sil	1-sbk	fri	4
Cg	70-80"	C	S	2.5Y 5/3				sil	0-m	fri	7
2C	80-108"			2.5Y 4/4				s	0-sg	L	1

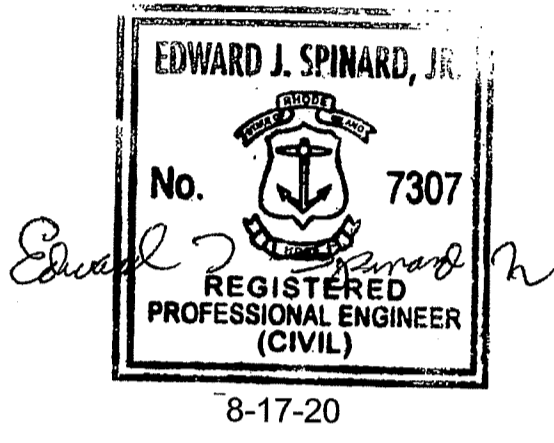
TH 1 Soil Class O.W./Eolian Total Depth 108" Impervious/Limiting Layer Depth NA (og) GW Seepage Depth 72" SHWT 42" (og)
TH 2 Soil Class Eolian/O.W. Total Depth 108" Impervious/Limiting Layer Depth NA (og) GW Seepage Depth 72" SHWT 55" (og)

Comments: _____

Revised 11/25/18



Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
Fax: (401) 268-9885



NO.	REVISION	DATE	APP.
1.	RIDEM COMMENTS	8/2020	GC

DESIGN BY	GEC	CHECKED BY	EJS
DRAWN BY	GEC	ENGINEER	EJS
SCALE	1" = 30'	PROJECT NO.	

CONTRACT NO. _____
FILE NAME 2020-03-28_QBP-KCWA CONNECTION TOPO-GEC-CHANGE

APPROVED
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR
DATE 4-8-20

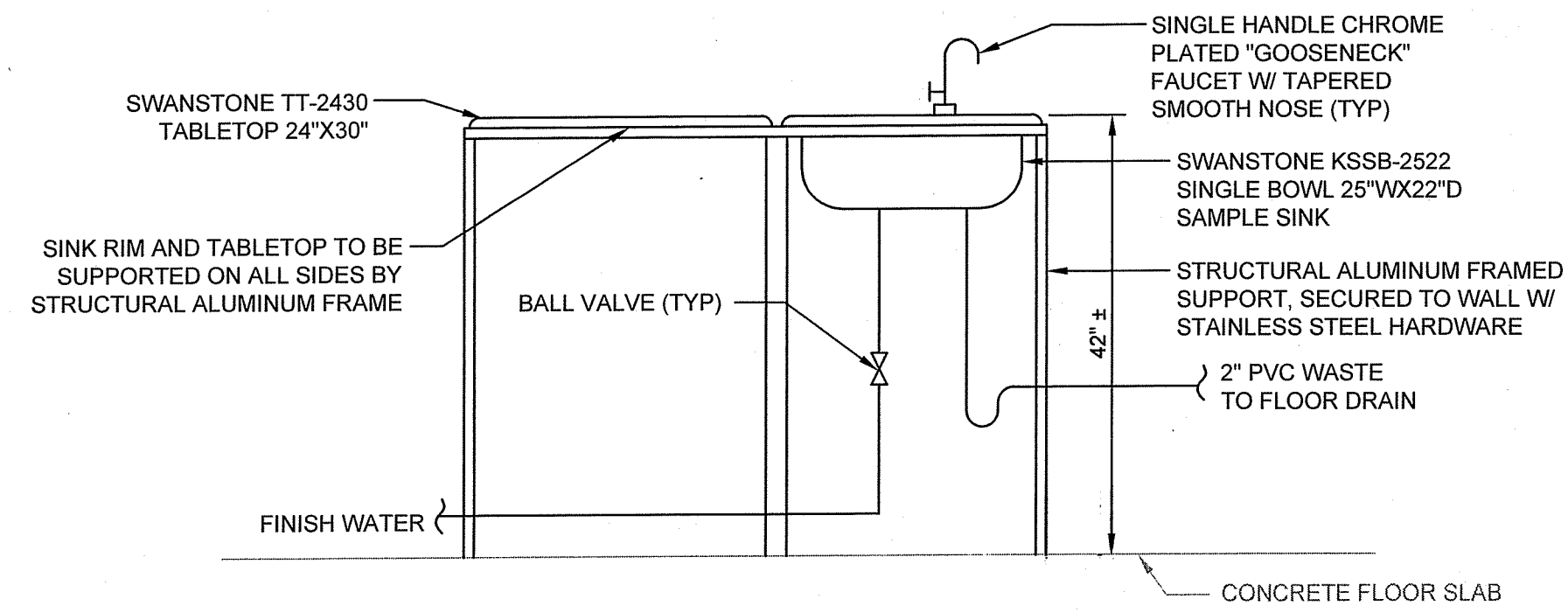
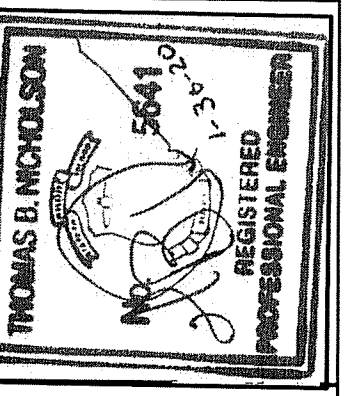
**QDC - KCWA
RETAIL WATER
SERVICE CONNECTION**
Quonset Development Corporation
Quonset, Rhode Island

**STORMWATER &
SOIL & EROSION PLAN II**

Quonset Business Park

SHEET NO. **SP-2**
DRAWING NO. _____
OF 2 SHEETS

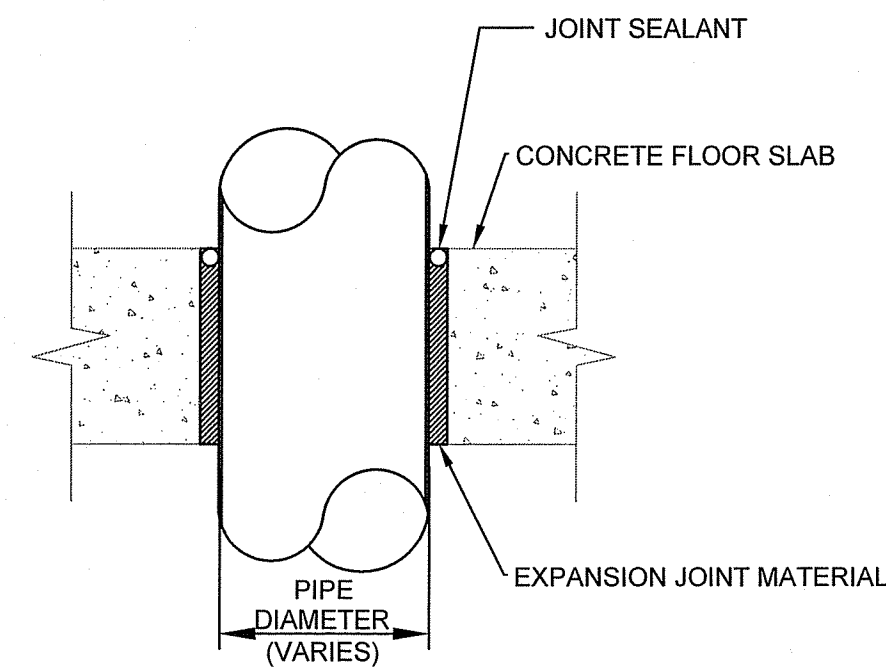
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
STORMWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel



- NOTE: 1. PROVIDE ENGRAVED LOMICOID NAMEPLATE WITH 1/2" LETTERING MOUNTED AT THE SINK AND LABELED "WATER SAMPLE SINK ONLY". PROVIDE ENGRAVED LOMICOID NAMEPLATES WITH 1/2" LETTERING MOUNTED ABOVE FAUCET AND LABELED "RAW WATER" AND "FINISH WATER".
2. FINISH WATER SAMPLE SUPPLY VIA 1/2" COPPER FROM BUILDING CW PLUMBING SYSTEM.

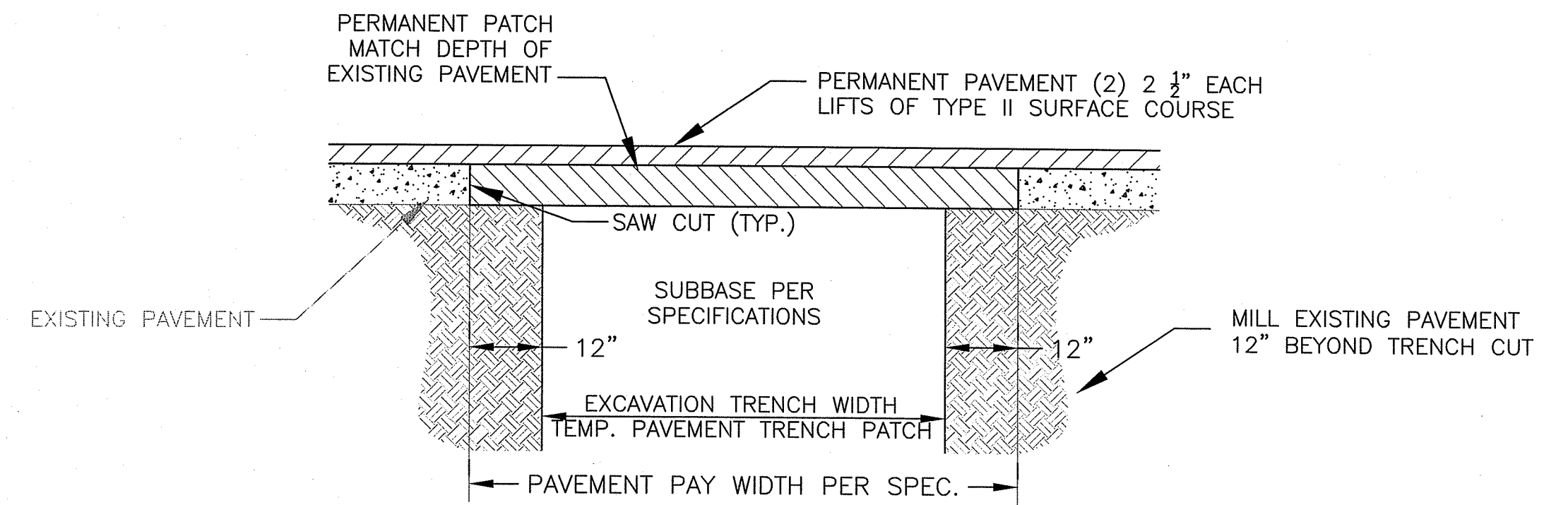
RAW WATER SAMPLE SINK SCHEMATIC

N.T.S.



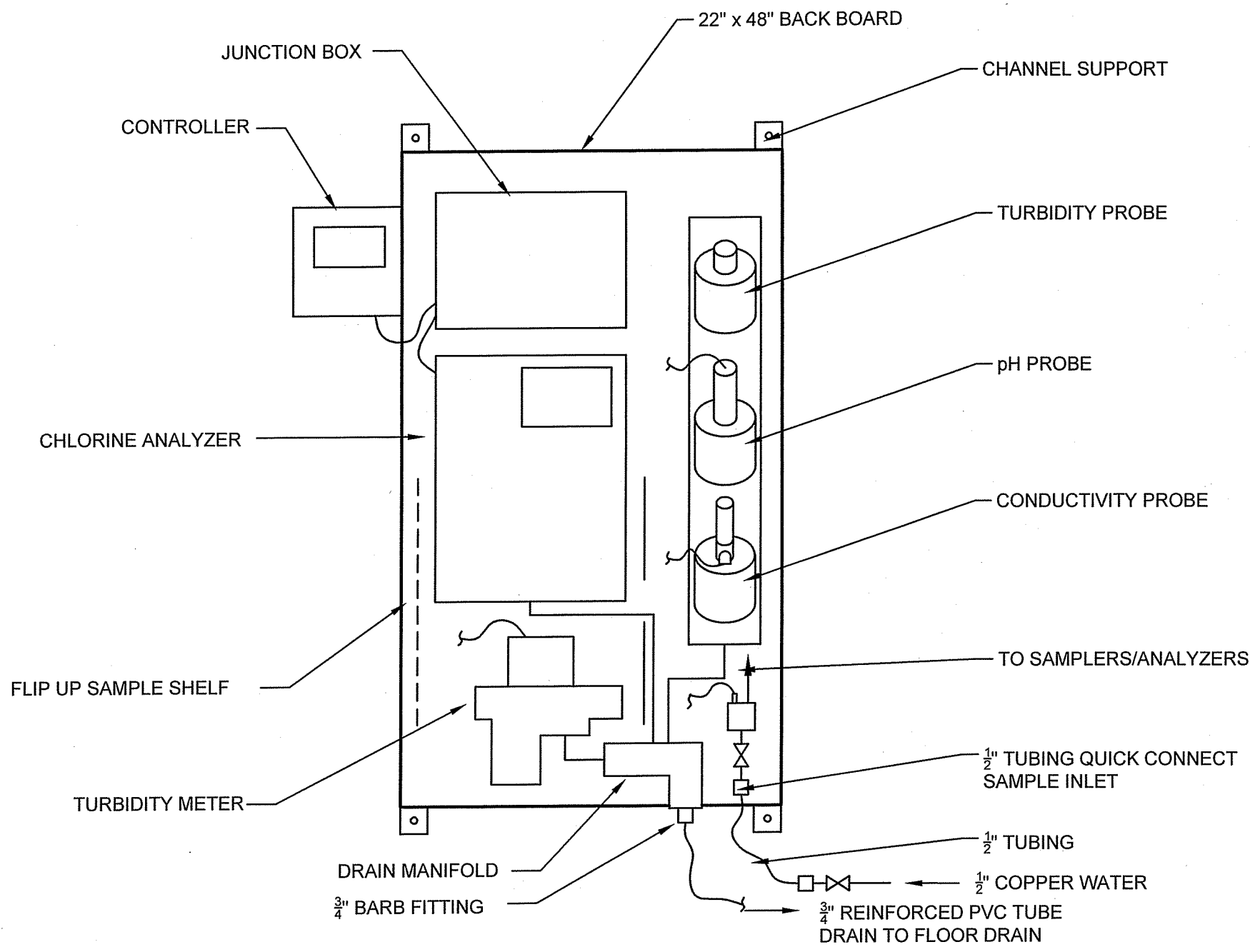
CONCRETE FLOOR PENETRATION

N.T.S.



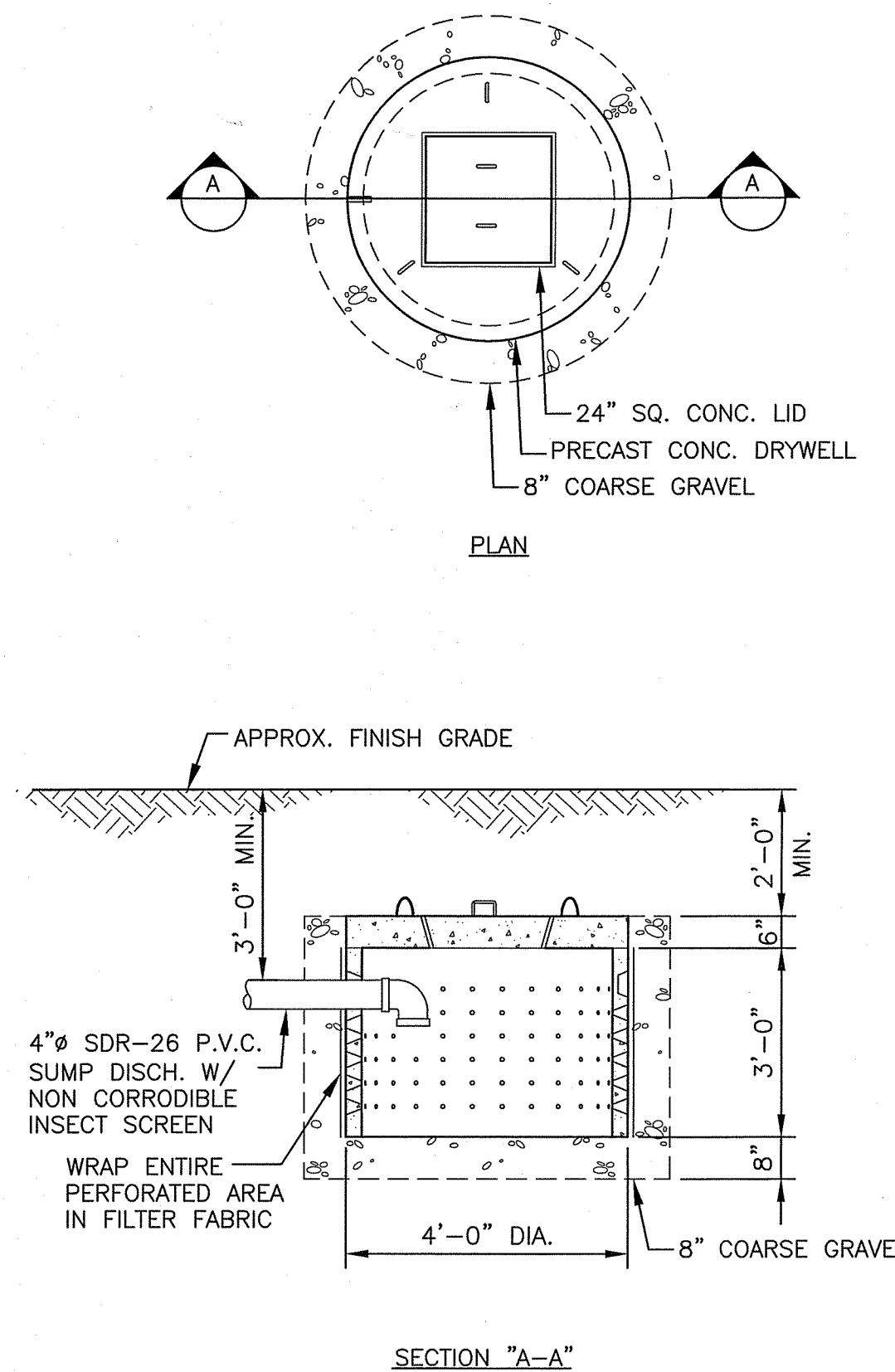
PERMANENT PAVEMENT - (STATE ROADS)

N.T.S.



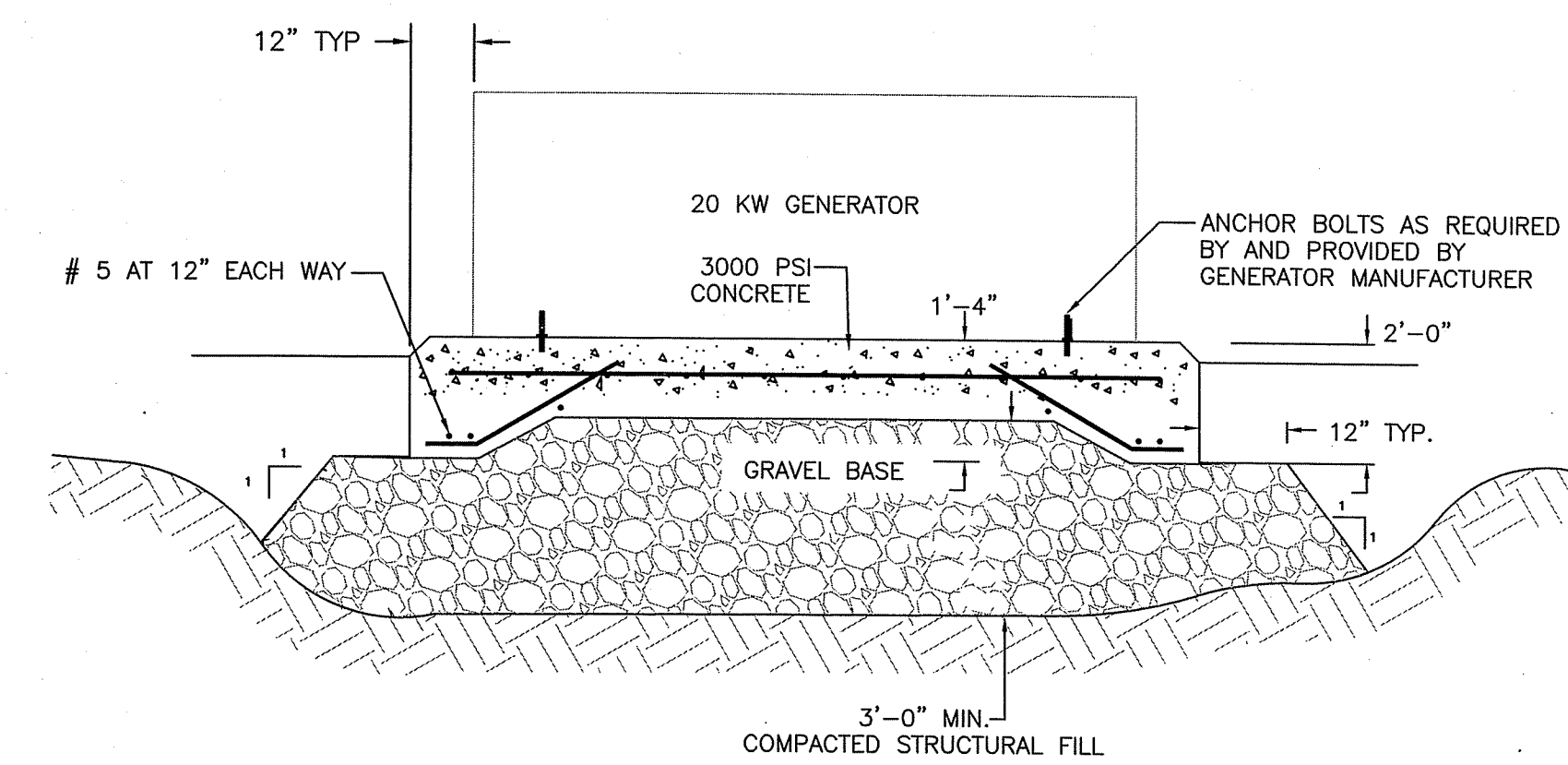
WATER QUALITY MONITORING PANEL SCHEMATIC

N.T.S.



PRECAST CONCRETE DRYWELL

NTS



NOTE: APPROXIMATE PAD SIZE (LxW) - 86" x 45" MIN.

GENERATOR CONCRETE PAD DETAIL

NTS

C&E ENGINEERING
CIVIL ENGINEERS - ENVIRONMENTAL PROJECTS

342 PARK AVENUE
WOONSOCKET, RI 02895
www.candeeengineering.com
401.762.1711
Fax: 401.235.9088

QUONSET DEVELOPMENT CORP.
QUONSET, RHODE ISLAND

DESIGNED BY:	DATE:	CHECKED BY:	DATE:
T.B.N.	02/2018		
DRAWN BY:	DATE:	CHECKED BY:	DATE:
J.A.S.	02/2018		

QDC-KCWA RETAIL
WATER SERVICE CONNECTION

DETAILS II
SCALE: 1" = 20'-0"

PROJ. NO. J1601
DWG. NO.

D-2

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Thomas D. Weneck

EROSION & SEDIMENTATION CONTROL PLAN

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED HAY BALES SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS AND HAY BALES SHALL BE REMOVED AND DISPOSED. ALL ACCUMULATED TRAPPED SEDIMENTS MUST BE REMOVED TO A SUITABLE UPLAND SITE.
2. INSTALL AND MAINTAIN SEDIMENTATION TRAPS WITHIN THE LIMIT OF SURFACE DISTURBANCE, AS REQUIRED FOR CONTROL OF DEWATERING FLOWS. NO WATERS HANDLED DURING THE CONSTRUCTION PROCESS SHALL BE DISCHARGED DIRECTLY INTO REGULATED AREAS.
3. THE LIMITS OF ALL CLEARING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
4. SOIL STOCKPILES FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS AND SHALL BE SURROUNDED BY STAKED HAY BALES.
5. TEMPORARY VEGETATION AND/OR HAY MULCHING SHALL BE USED TO PROTECT BARE AREAS AND STOCKPILES FROM EROSION DURING CONSTRUCTION. BARE EARTH SLOPES AND SOIL STOCKPILES SHALL BE KEPT TO A MINIMUM AT ALL TIMES. TEMPORARY SEEDING AND MULCHING SHALL BE INSTALLED ON ALL BARE EARTH PRIOR TO ENDING CONSTRUCTION FOR THE WINTER AND AS OTHERWISE NECESSARY.
6. AS SOON AS WEATHER PERMITS AFTER THE COMPLETION OF FINE GRADING, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH PLACEMENT OF LOAM AND A SUITABLE CONSERVATION GRASS SEED MIXTURE AND COVERED WITH A MAT OF LOOSE HAY PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH LOOSE HAY MULCH.
7. DISPOSAL OF EXCESS MATERIALS SHALL BE PERFORMED OFF SITE UNLESS OTHERWISE DIRECTED BY THE OWNER.

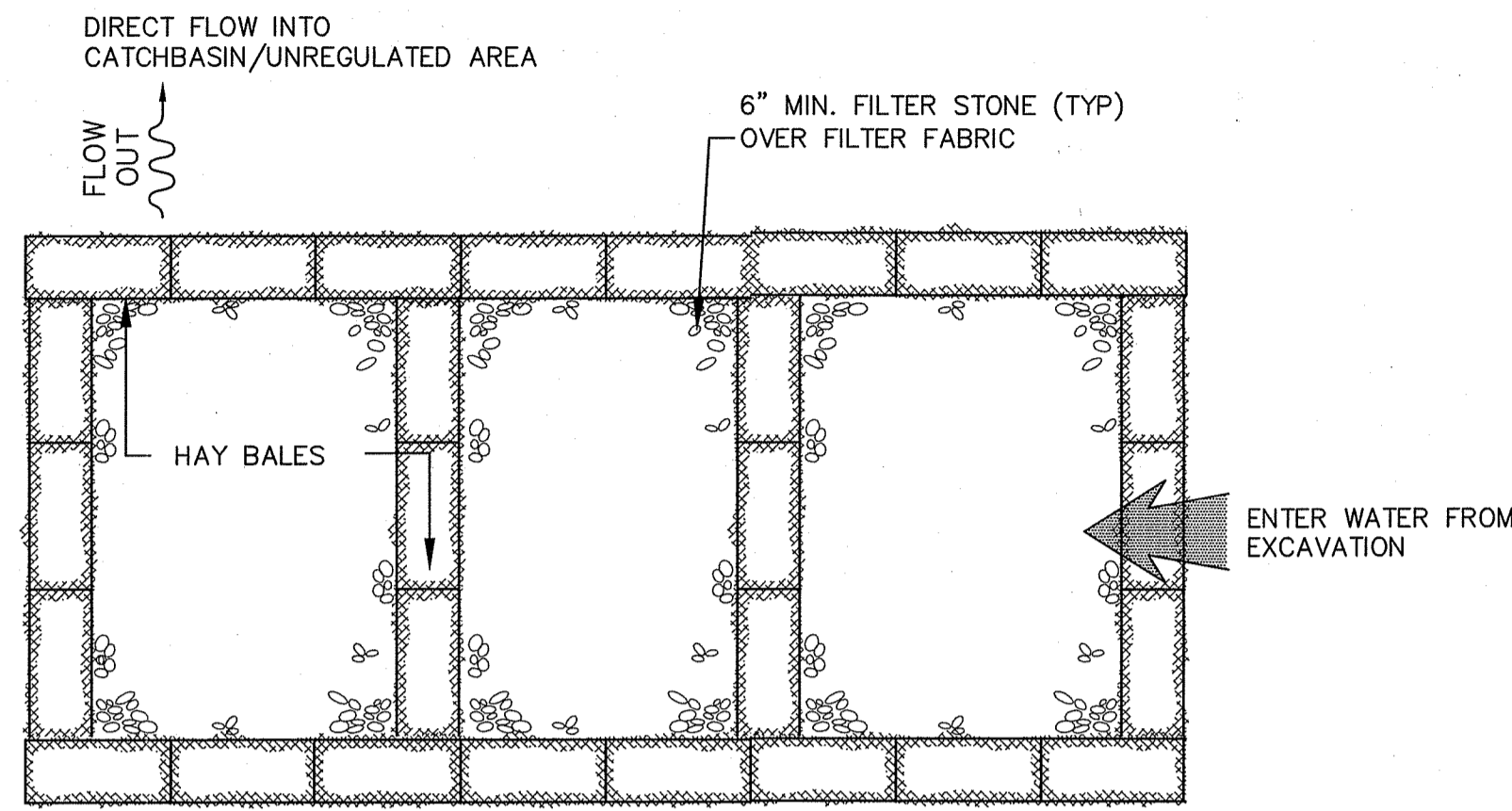
CONSTRUCTION GUIDELINES

1. REFUELING OF VEHICLES AND EQUIPMENT SHALL BE CONDUCTED A MINIMUM OF 200 FEET FROM ALL WETLANDS AND WATER COURSES. A SIGN SHALL BE POSTED WITH SPILL RESPONSE PROCEDURES AND LOCAL FIRE OFFICIALS AND RIDEM INCIDENT RESPONSE PHONE NUMBERS.
2. ALL FUEL, PAINT, COATINGS, AND OTHER HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH IMPERVIOUS FLOOR DURING NON WORK HOURS.
3. MAINTENANCE AND SERVICING OF VEHICLES AND EQUIPMENT AT THE PROJECT SITE IS NOT PERMITTED.
4. A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL E.G. BOOMS, BLANKETS, ETC. SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES IN THE EVENT OF A RELEASE OF HAZARDOUS MATERIALS.

WORK IN REGULATED AREAS NOTES

GENERAL BEST MANAGEMENT PRACTICES

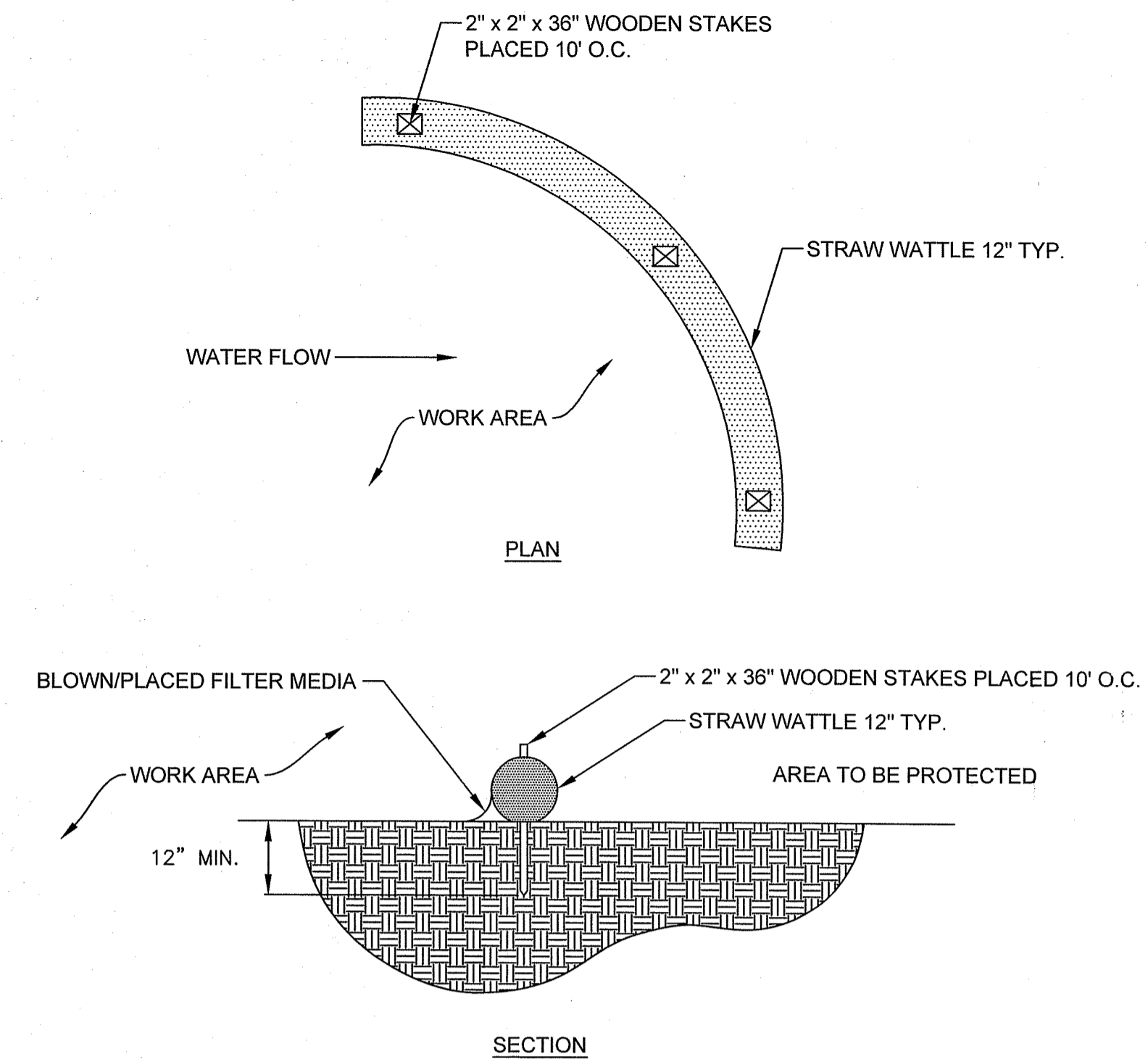
1. CONTRACTOR SHALL PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN WHICH DETAILS MEANS AND METHODS AND LOCATION OF CRITICAL AREAS AND EQUIPMENT.
2. ACCESS TO SENSITIVE ENVIRONMENTAL AREAS SHALL BE RESTRICTED.
3. LOCATE ALL CONSTRUCTION EQUIPMENT AND MATERIALS AWAY FROM REGULATED AREAS.
4. MINIMIZE AREA AND DURATION OF DISTURBANCE IN THE REGULATED AREA.
5. MINIMIZE USE OF HEAVY EQUIPMENT IN REGULATED AREAS AND USE SMALLEST EQUIPMENT POSSIBLE.
6. PLACE ALL EQUIPMENT ON STABLE AREAS.
7. DO NOT CLEAN, SERVICE OR REFUEL EQUIPMENT IN PROXIMITY TO REGULATED AREAS.
8. REMOVE EXCAVATED MATERIALS IN LAYERS AND REPLACE IN ORIGINAL SEQUENCE OF REMOVAL.
9. RETURN AREA TO PRECONSTRUCTION GRADE AND REPLANT ALL DISTURBED AREAS WITH NATIVE VEGETATION.
10. SCHEDULE OPERATIONS IN THE REGULATED AREA DURING A PERIOD OF LOW TO NO FLOW, DURING A PERIOD OF NO PRECIPITATION AND PREFERABLY WHEN THE GROUND IS FROZEN AND / OR DRY TO MINIMIZE GROUND DISTURBANCE AND POTENTIAL LOSS OF SOILS IN EXCAVATION.



- NOTES:**
1. IMPERMEABLE GEOTEXTILE FABRIC TO LINE INTERIOR OF SEDIMENTATION TRAP.
 2. CONTRACTOR TO DETERMINE REQUIRED SIZE OF SEDIMENTATION TRAP AND SECURE HAY BALES AS REQUIRED.

SEDIMENTATION TRAP FOR DEWATERING FLOWS

NTS

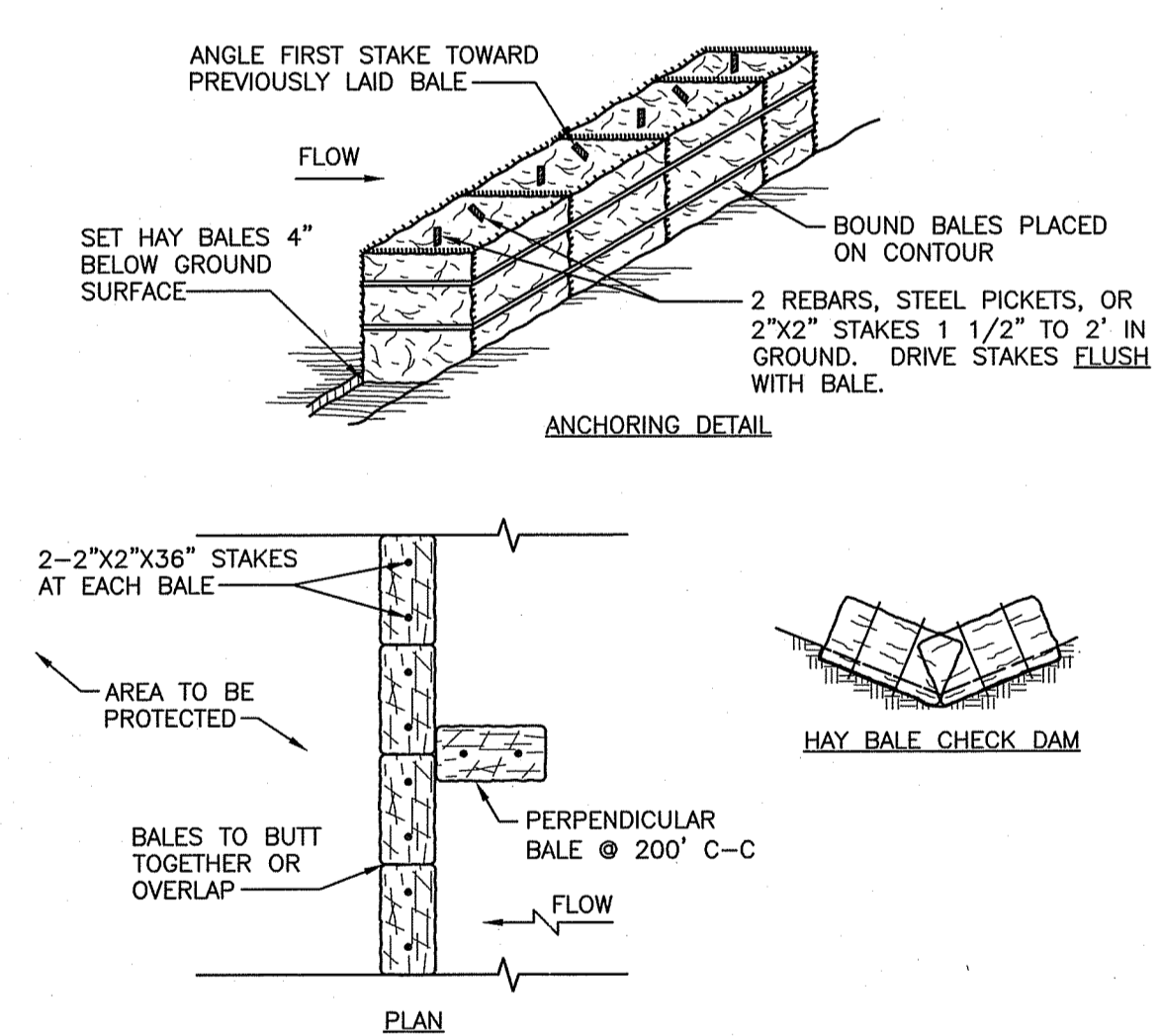


STRAW WATTLE DETAIL

NTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0-03
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

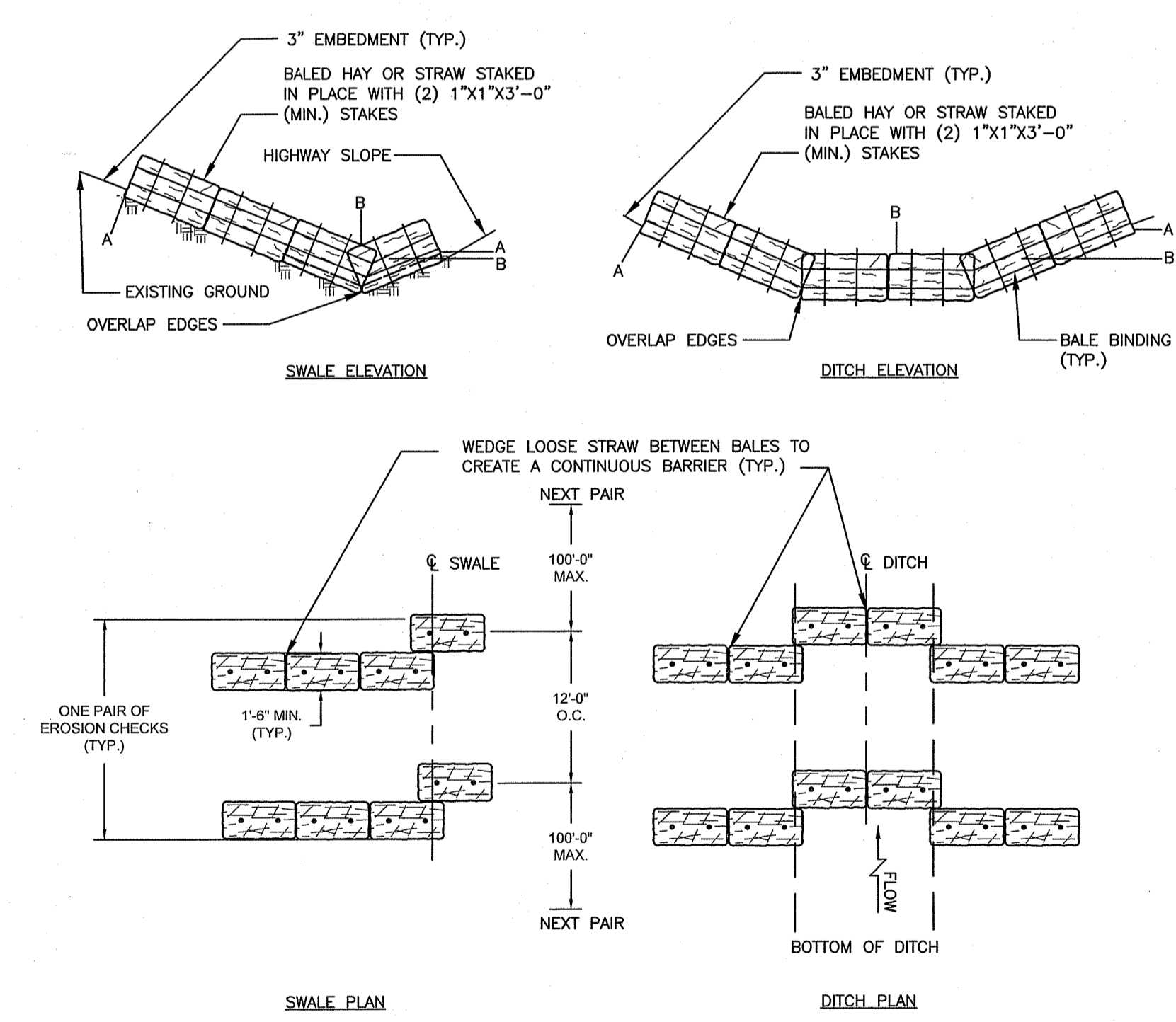
Jonathan D. Wignall



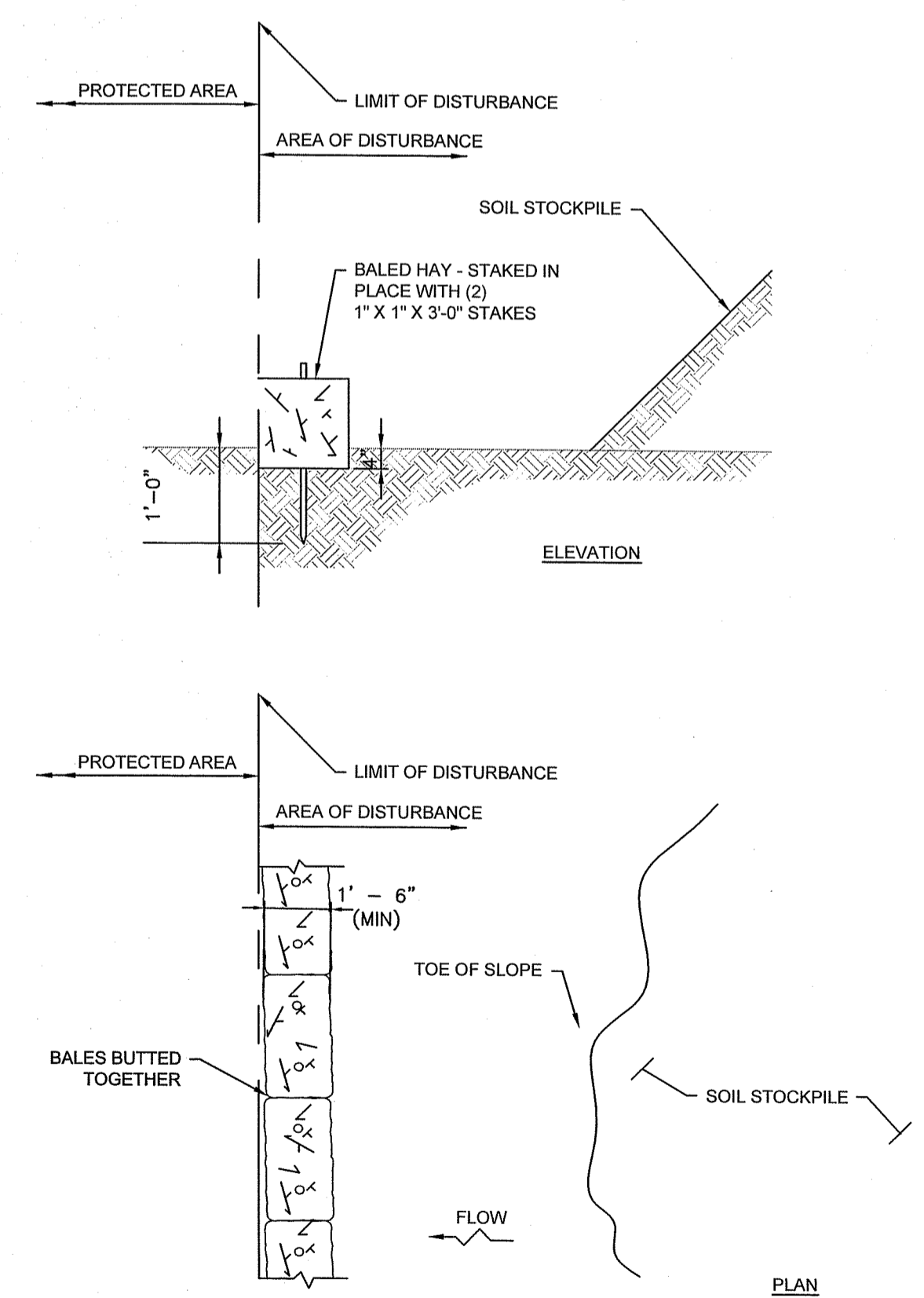
- CONSTRUCTION SPECIFICATIONS:**
1. HAY BALES ARE TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE PLAN AND ALONG SLOPE CUTS TO PROTECT WETLAND AND REGULATED AREAS FROM SILTATION. AT APPROXIMATELY 200-FOOT INTERVALS, A SINGLE HAY BALE ABUTS PERPENDICULARLY.
 2. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR, AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 3. EACH BALE SHALL BE EMBEDDED IN THE SOIL, A MINIMUM OF FOUR INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE, AT AN ANGLE, TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 5. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE DETAILS

NTS

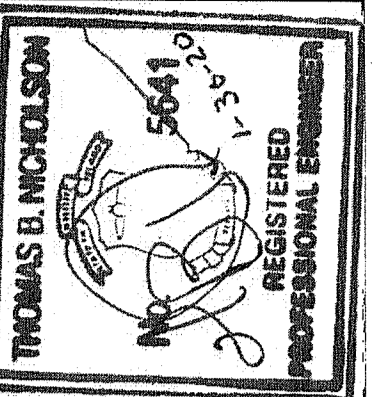


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 207 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT OR IN DRAINAGE DITCHES AS CALLED FOR ON THE PLANS.
 3. THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, HIGHWAY SLOPE OR DITCH SECTION.
 4. POINTS "A" SHOULD BE AT A HIGHER ELEVATION THAN POINTS "B".



EROSION CONTROL AT TEMPORARY SOIL STOCKPILES

NTS



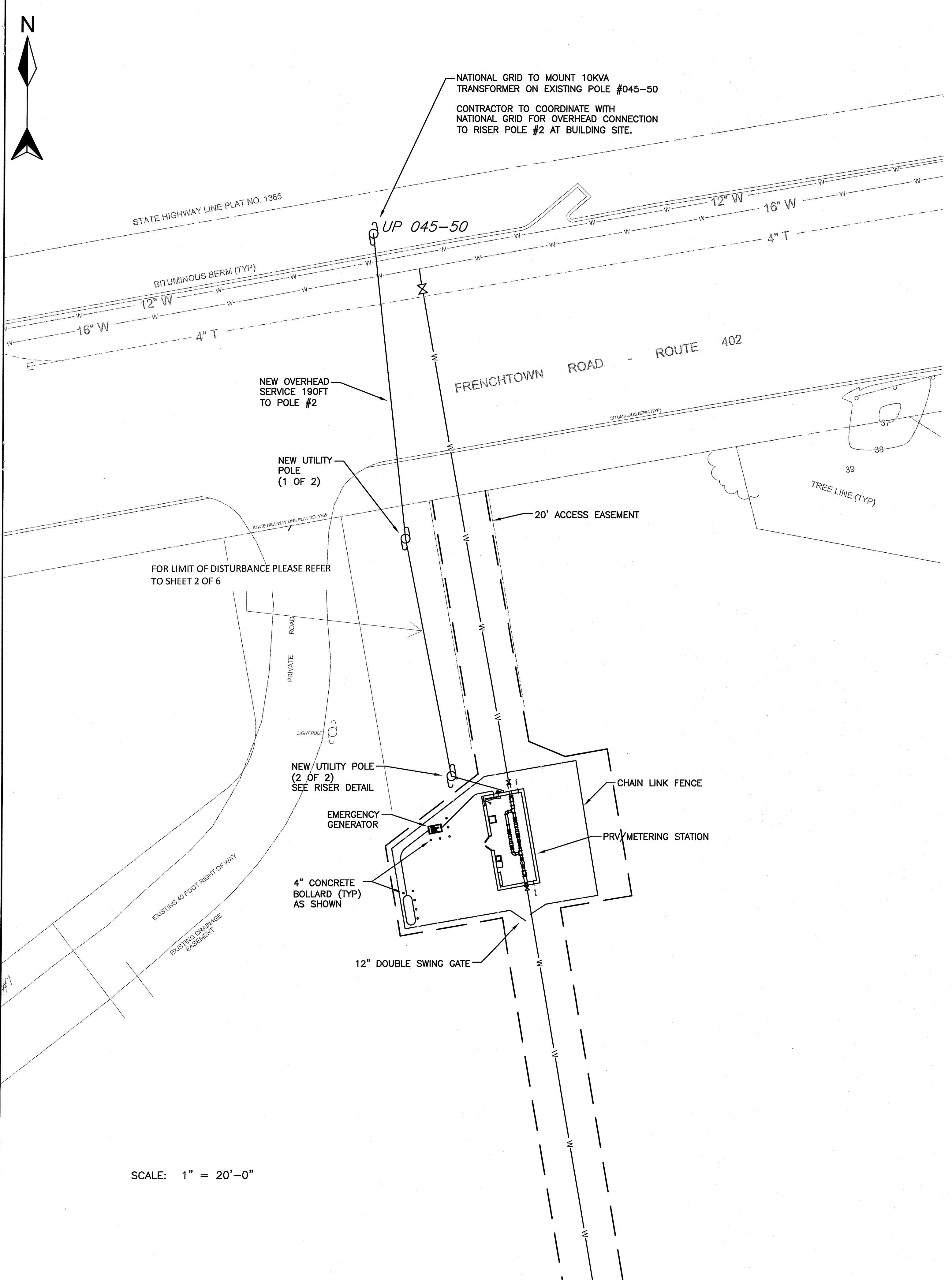
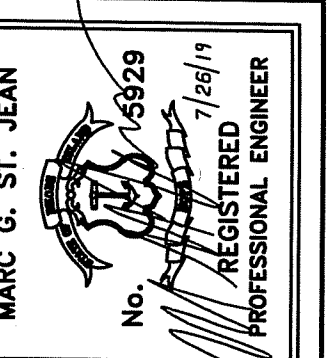
C&E ENGINEERING
CIVIL ENGINEERS, ENVIRONMENTAL PROJECTS.
342 PARK AVENUE
WONOSOCKET, RI 02895
401.762.1711
FAX: 401.231.9088
www.candee.com

QUONSET DEVELOPMENT CORP.	QUONSET, RHODE ISLAND	DESIGNED BY: T.B.N.	CHECKED BY: J.A.S.	DATE: 02/2018	DATE: 02/2018
---------------------------	-----------------------	---------------------	--------------------	---------------	---------------

QDC-KCWA RETAIL WATER SERVICE CONNECTION
EROSION CONTROL DETAILS

PROJ. NO. J1601
DWG. NO.

D-3



GENERAL CONDITIONS:

- IT IS THE INTENT OF THIS PLAN TO SHOW THE GENERAL EXTENT OF THE WORK PROPOSED.
- PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL PER THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (CURRENTLY NEC2014/2017) AND LOCAL AUTHORITY HAVING JURISDICTION.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ELECTRICAL WORK.
- ALL ELECTRICAL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NATIONAL ELECTRICAL CODE (CURRENTLY NEC2014/2017) ALONG WITH ALL APPLICABLE NATIONAL GRID SPECIFICATION AND APPROVAL REQUIREMENTS.
- ANY ADDITIONAL SMALL BRANCH CIRCUIT WIRING TO BE INSTALLED IN LIQUID TIGHT FLEXIBLE CONDUIT AS NECESSARY FOR DEVICE AND EQUIPMENT CONNECTIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE 3/4" EXTERIOR GRADE PLYWOOD BACKING FOR TRANSFER SWITCH/ELECTRICAL PANEL COMBINATION.
- REFER TO PROJECT MANUAL DIVISION 16 FOR ADDITIONAL AND DETAILED ELECTRICAL SPECIFICATIONS.

MAIN ELECTRICAL REQUIREMENTS

- A NEW, CUTLER HAMMER CH22B100R, 100AMP RATED LOADPANEL WITH 100AMP MCB AND MINIMUM OF 10KA RMS SHORT CIRCUIT RATING OR GREATER, IS TO BE INSTALLED AT THE MAIN SERVICE ENTRANCE. THE LOCATION SHALL BE ON THE RIGHT SIDE UPON ENTRY TO THE BUILDING.
- A NEW, 100 AMP AUTOMATIC TRANSFER SWITCH, MODEL RXT-JFNC-0100A DESIGNED FOR USE WITH THE SPECIFIED KOHLER GENERATOR, IS TO BE INSTALLED. REFER TO SPECIFICATION 16500 FOR ADDITIONAL INFORMATION.
- SECONDARY UTILITY POWER WILL BE OVERHEAD FROM A SINGLE-PHASE 10KVA POLE-MOUNT TRANSFORMER LOCATED ON THE NORTH SIDE OF FRENCHTOWN ROAD APPROXIMATELY 190FT FROM THE PROPERTY AS SHOWN IN THE DRAWING. SECONDARY POWER WILL TRANSITION FROM THE RISER POLE TO UNDERGROUND CONDUIT TO THE BUILDING METER SOCKET AS SHOWN.
- FOR CONDUITS ENTERING THE BUILDING FROM THE EARTH, EXPANSION JOINTS SHALL BE USED AND BE VISIBLE ABOVE GROUND.
- EXPANSION JOINT SHALL BE USED ALSO AT RISER POLE.
- PROVIDE 1 ADDITIONAL CIRCUIT FOR GENERATOR BATTERY CHARGING CIRCUIT.
- INSTALL SENTREX SURGE PROTECTION DEVICE (PA120T). ATTACH TO MAIN ELECTRICAL PANEL.
- GROUNDING ELECTRODE: 5/8" COPPER 8FT LENGTH BURIED AND 2" EXPOSED A.F.F. FOR CONNECTION WITH CONTINUOUS #4 AWG BARE COPPER GROUND WIRE TO BUILDING FOUNDATION REINFORCING BAR AND CONTINUOUS TO ELECTRICAL PANEL.
- AS SHOWN, BUILDING INTERIOR CURRENTLY HAS TWO GENERAL PURPOSE 20AMP CIRCUITS. THE LOCATION SHOWN FOR THESE OUTLETS IS SUBJECT TO OWNERS REVIEW AND CHANGE OF QUANTITY AND/OR LOCATION.

GENERATOR NOTES

- REFER TO SITE PLAN FOR EXACT LOCATION.
- PROVIDE MINIMUM OF 54" BY 31" BY 4" CONCRETE PAD AS PER GENERATOR INSTALLATION INSTRUCTIONS. KOHLER PAD GM90970.
- REFER TO GENERATOR MANUAL FOR ADDITIONAL GROUNDING INSTRUCTIONS.
- PROVIDE BOLLARDS AS SHOWN IN DRAWING. BOLLARDS SHALL BE MINIMUM 4" DIAMETER AND CONCRETE-FILLED. HEIGHT ABOVE GROUND TO BE 3FT MINIMUM AND 2FT MINIMUM BELOW GRADE ENCASED IN 12IN DIAMETER CONCRETE.

MAIN LIGHTING REQUIREMENTS

- OUTDOOR LED LIGHTING WALLPACK TO BE FURNISHED WITH FACTORY EQUIPPED PHOTOCCELL OPTION. IF REQUESTED, WIRE FIXTURE TO SEPARATE WALL SWITCH FOR ON(PHOTOCELL)/OFF OPERATOR SELECTION. LOCATE LIGHT SWITCH NEAR MAIN ENTRANCE INSIDE BUILDING.
- ALL LAMP FIXTURES ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND SHALL BE THOSE INDICATED BY THE LIGHTING SCHEDULE.
- INTERIOR STRIP-LIGHTING MOUNTING HARDWARE SHALL MATCH AND BE COORDINATED WITH THE INSTALLED CEILING. SYSTEM. LIGHTS SHOULD BE A MINIMUM OF 8FT ABOVE FINISHED FLOOR. MOUNTING METHOD SHALL BE DETERMINED AT TIME OF INSTALLATION BY ELECTRICAL CONTRACTOR.

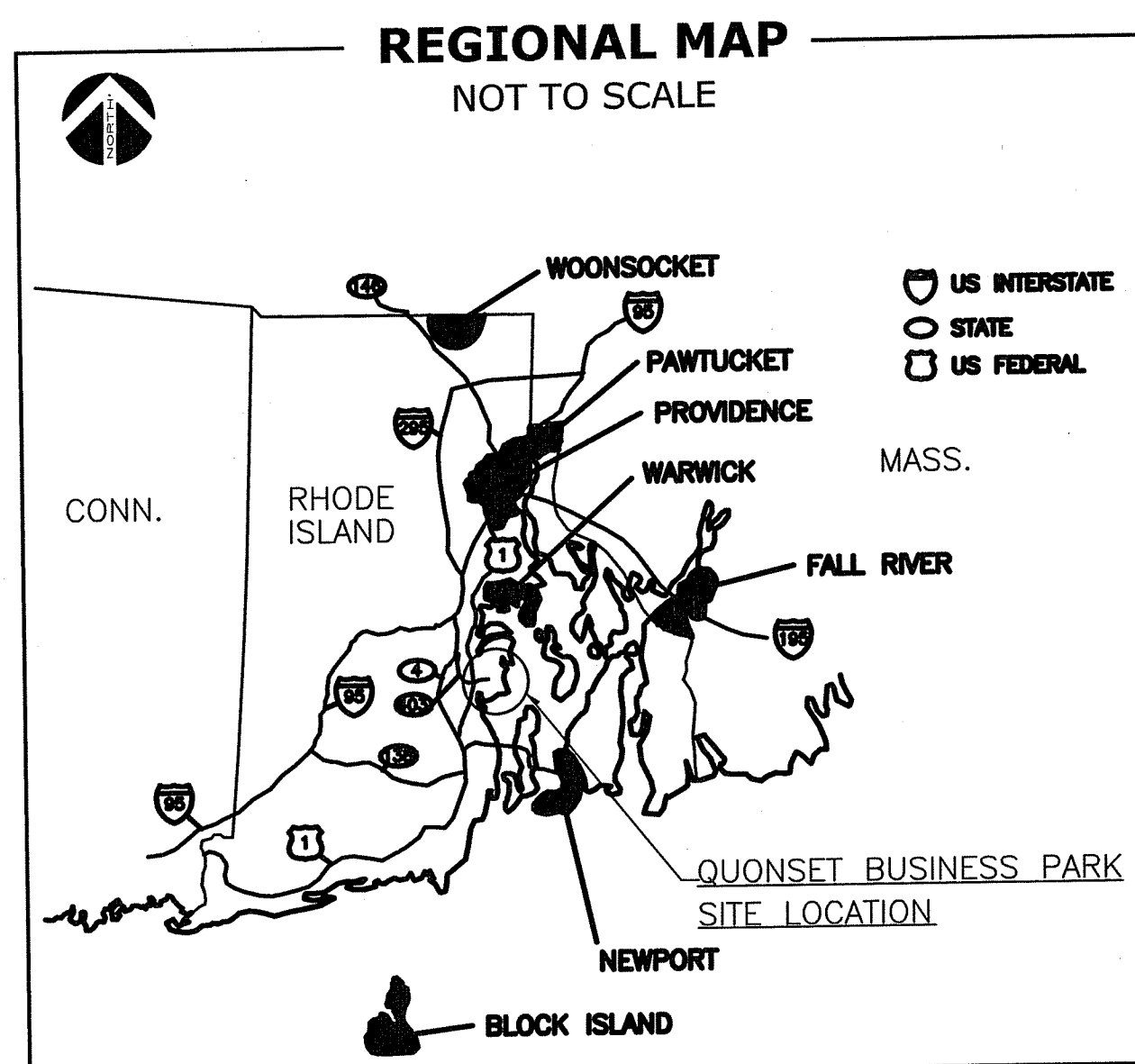
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenzel

C&E ENGINEERING
CIVIL ENGINEERS - ENVIRONMENTAL PROJECTS.
342 PARK AVENUE
WICKSCKET, RI 02895
PHONE: 401.231.8088
FAX: 401.231.8089

QUONSET DEVELOPMENT CORP.		QUONSET, RHODE ISLAND	
DESIGNED BY: MSJ	DATE: 7/2019	CHECKED BY: MSJ	DATE: 7/2019
DRAWN BY: MSJ	DATE: 7/2019	CHECKED BY: MSJ	DATE: 7/2019

QDC-KCWA RETAIL WATER SERVICE CONNECTION
ELECTRICAL SITE PLAN
ELECTRICAL NOTES

PROJ. NO. J1601
DWG. NO. E-2



QUONSET DEVELOPMENT CORP. AND KENT COUNTY WATER AUTHORITY RETAIL WATER CONNECTION

EAST GREENWICH, RHODE ISLAND

FEBRUARY 2020

(REVISED AUGUST 2020)

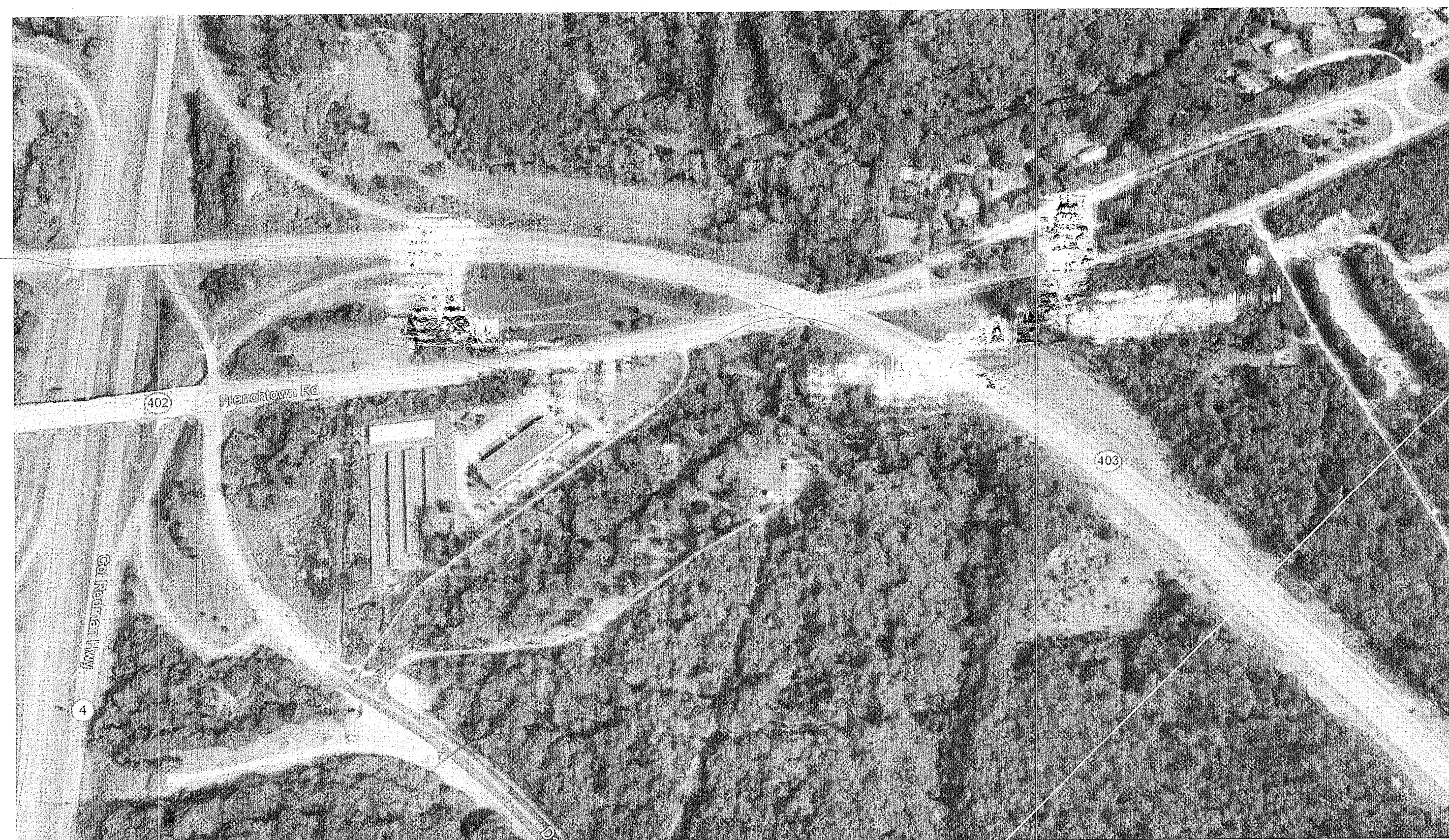
INDEX OF DRAWINGS		
SHEET NO.		DESCRIPTION
SHEET 1 OF 6	C-0	COVER SHEET
SHEET 2 OF 6	SP-1	STORMWATER AND SOIL EROSION PLAN
SHEET 3 OF 6	SP-2	STORMWATER AND SOIL EROSION PLAN II
SHEET 4 OF 6	D-2	DETAILS II
SHEET 5 OF 6	D-3	EROSION AND CONTROL DETAILS
SHEET 6 OF 6	E-2	ELECTRICAL PLANS AND DETAILS

Environmental Management
AUG 18 2020
Permit Application Center

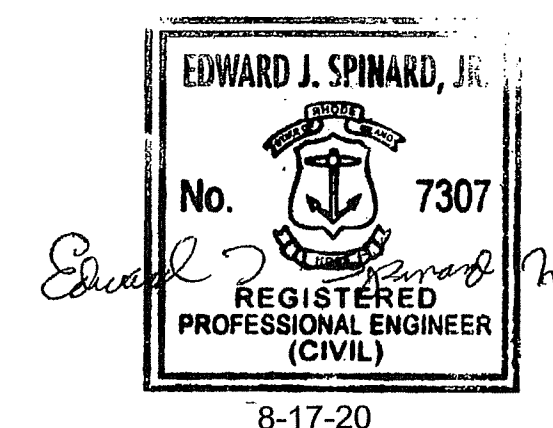


NOT TO SCALE

PROJECT LOCATION



QUONSET
DEVELOPMENT CORPORATION
Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
(401) 268-9885



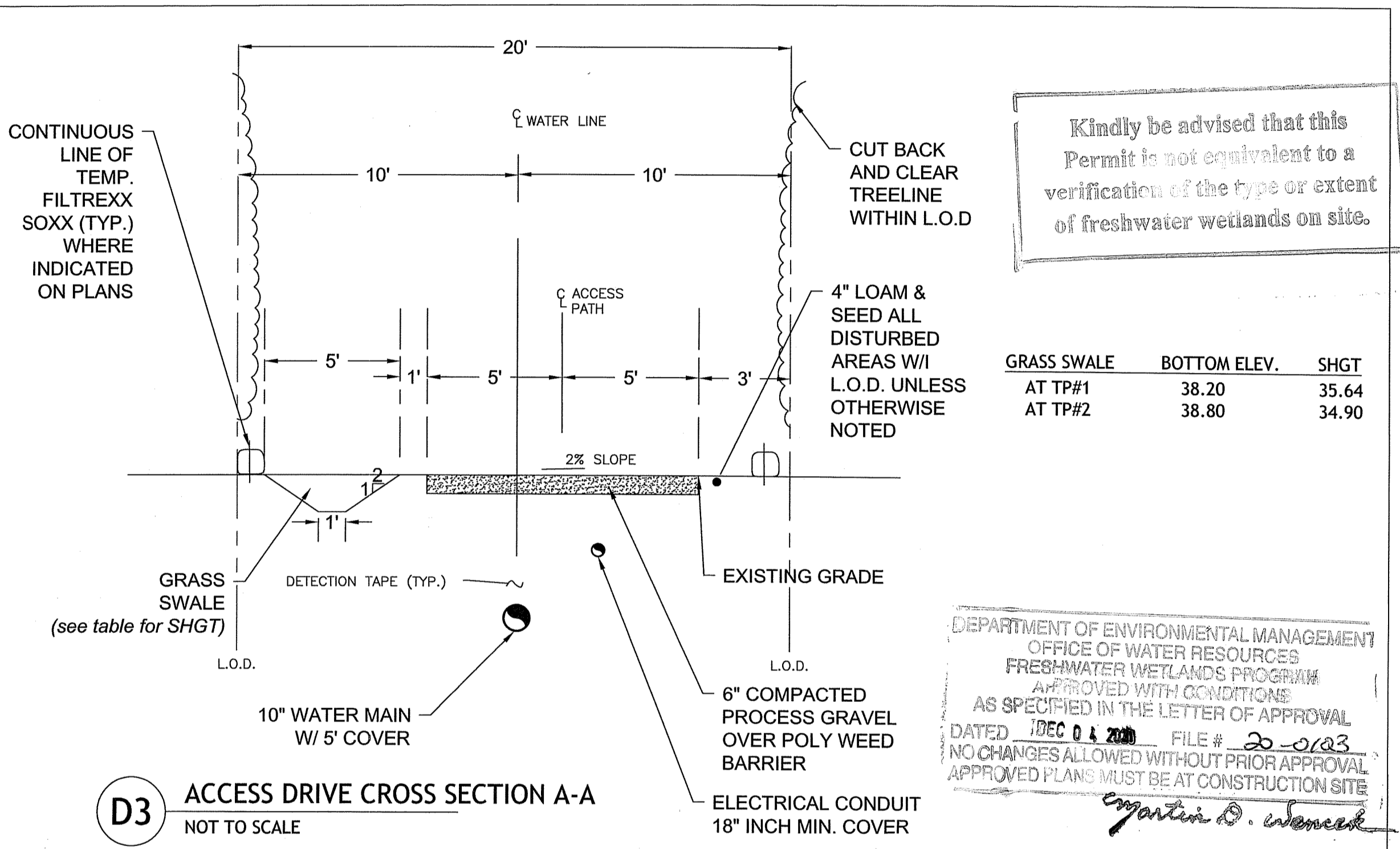
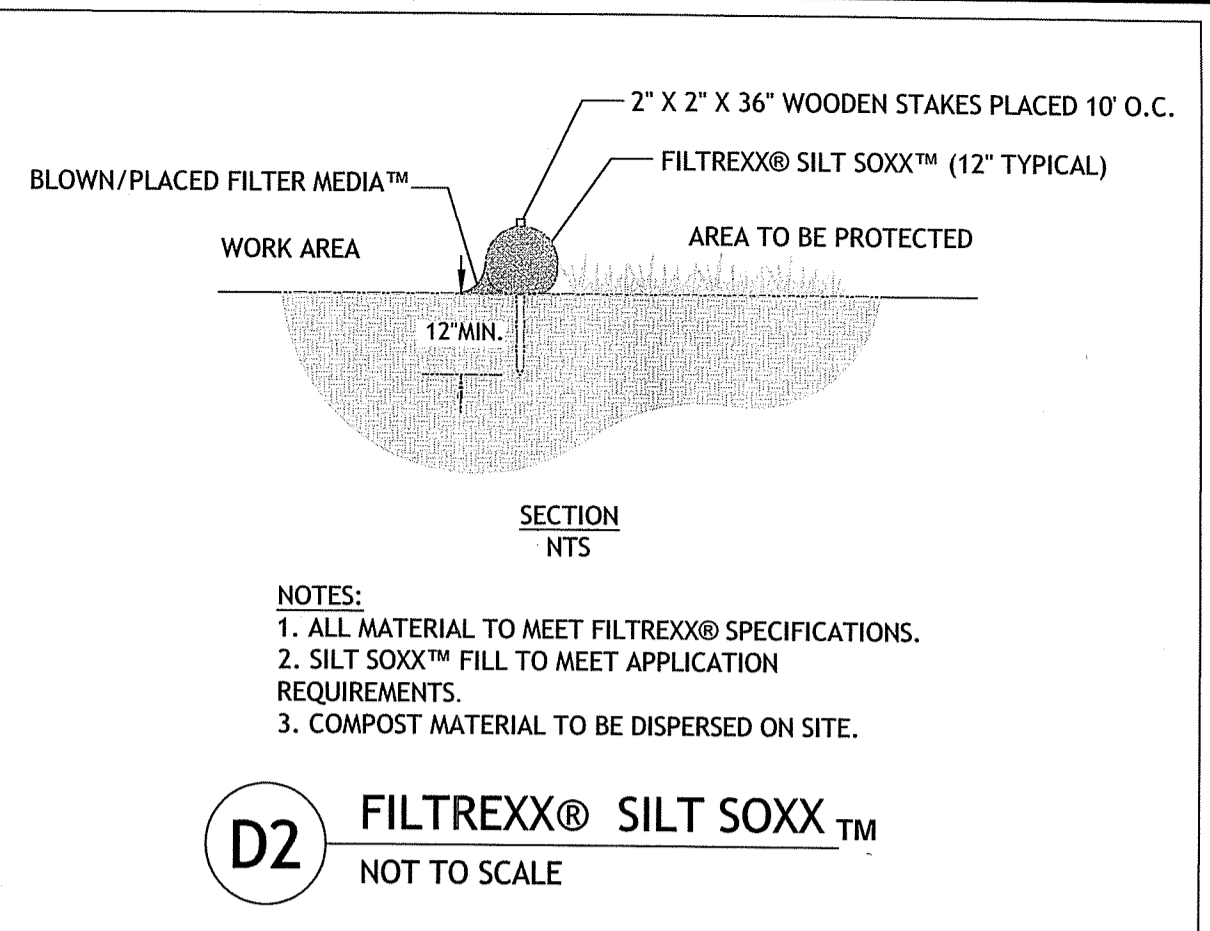
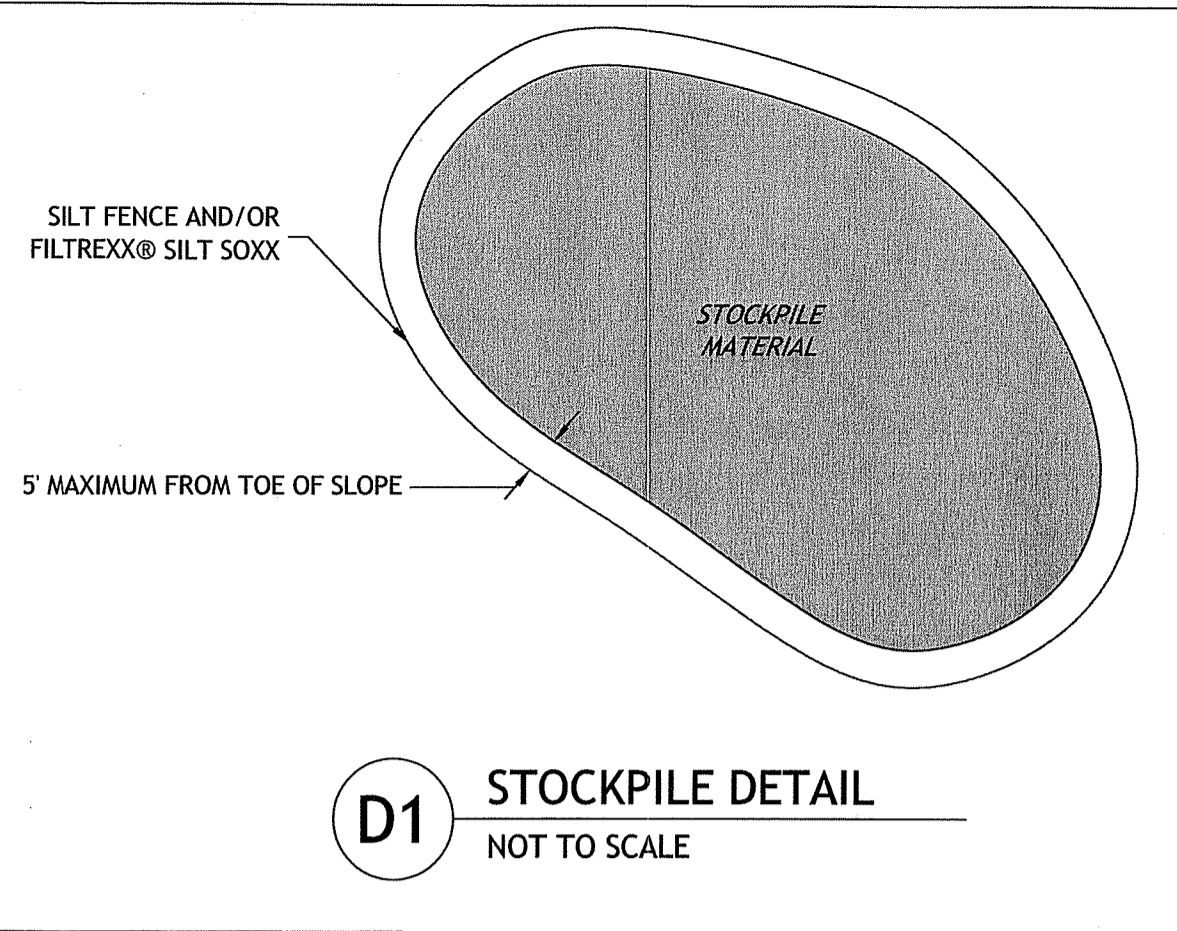
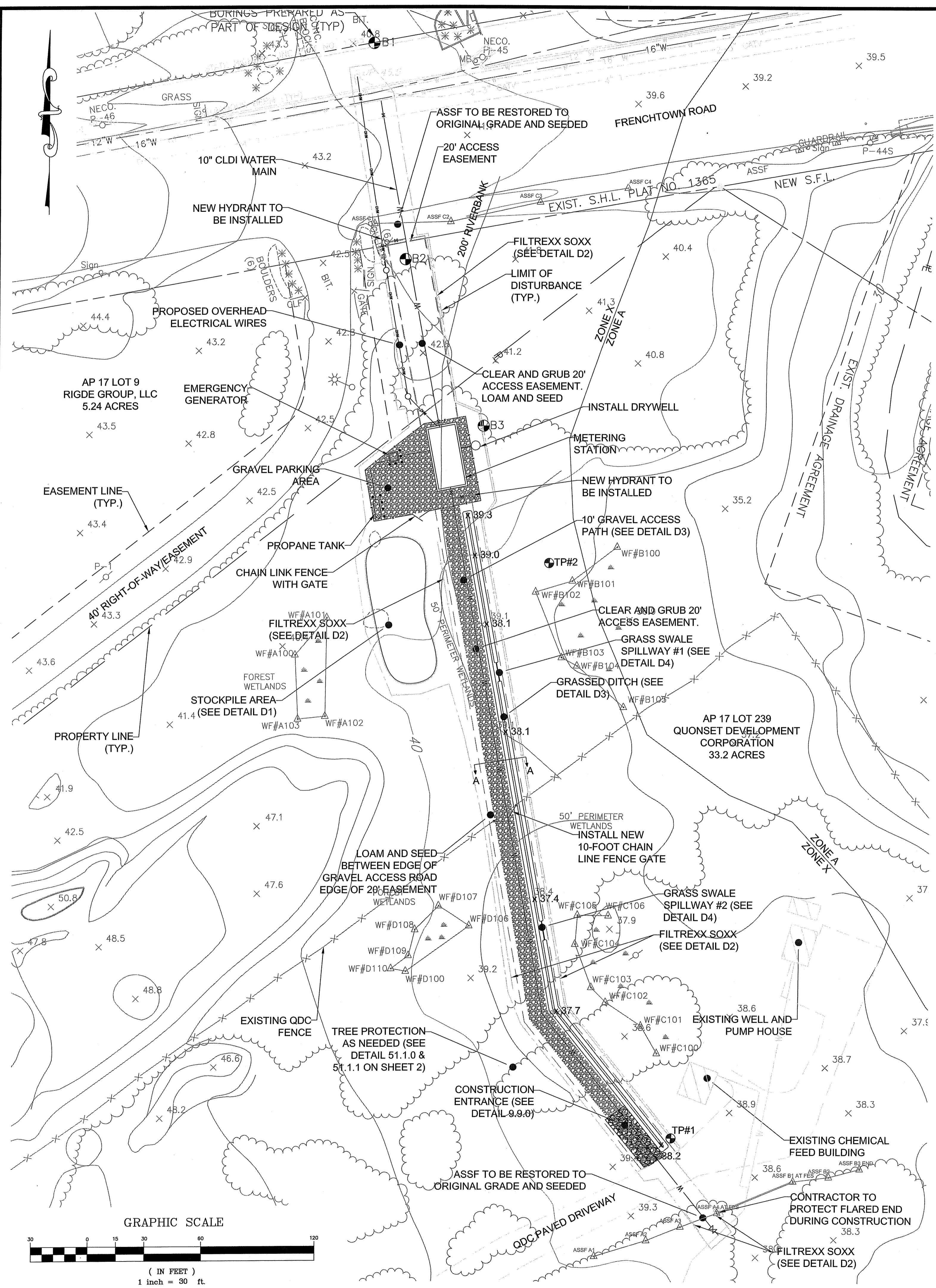
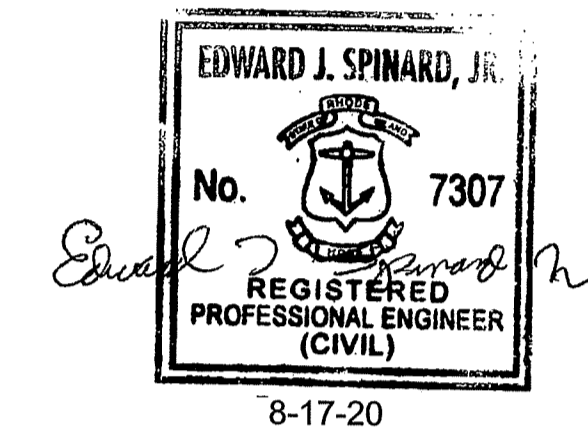
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

QUONSET
DEVELOPMENT CORPORATION
AUTHORIZED FOR BID
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR



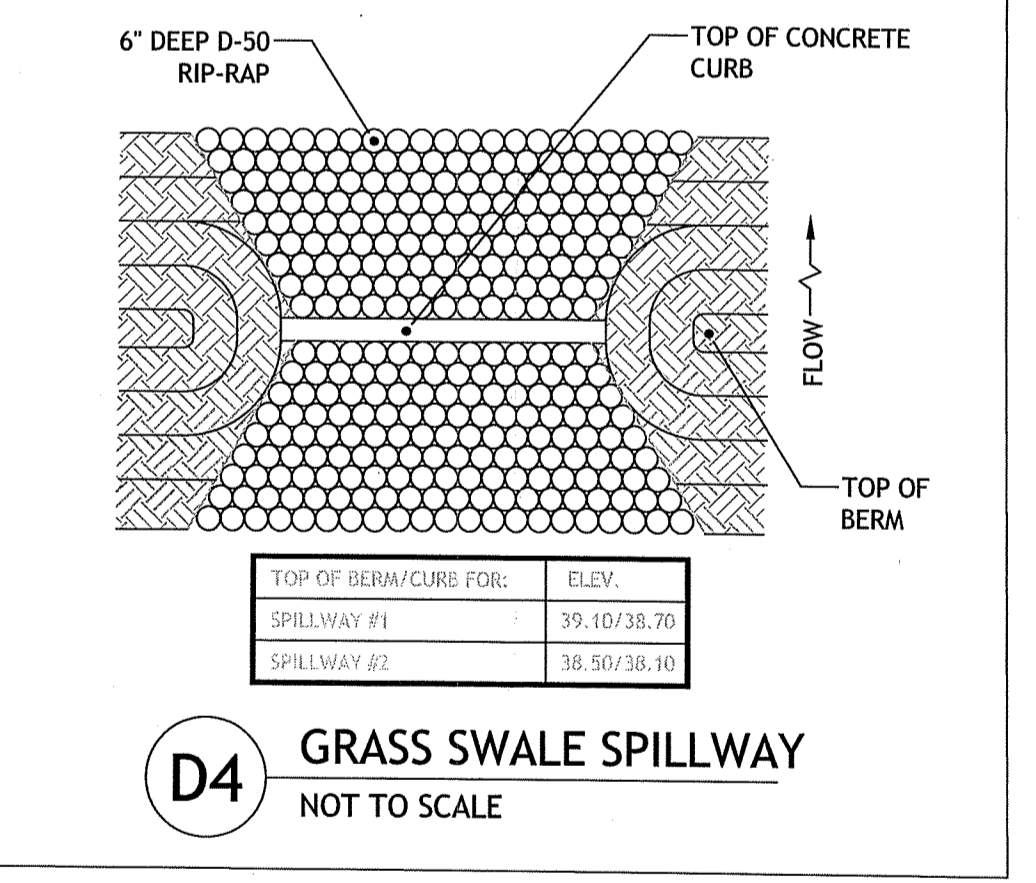
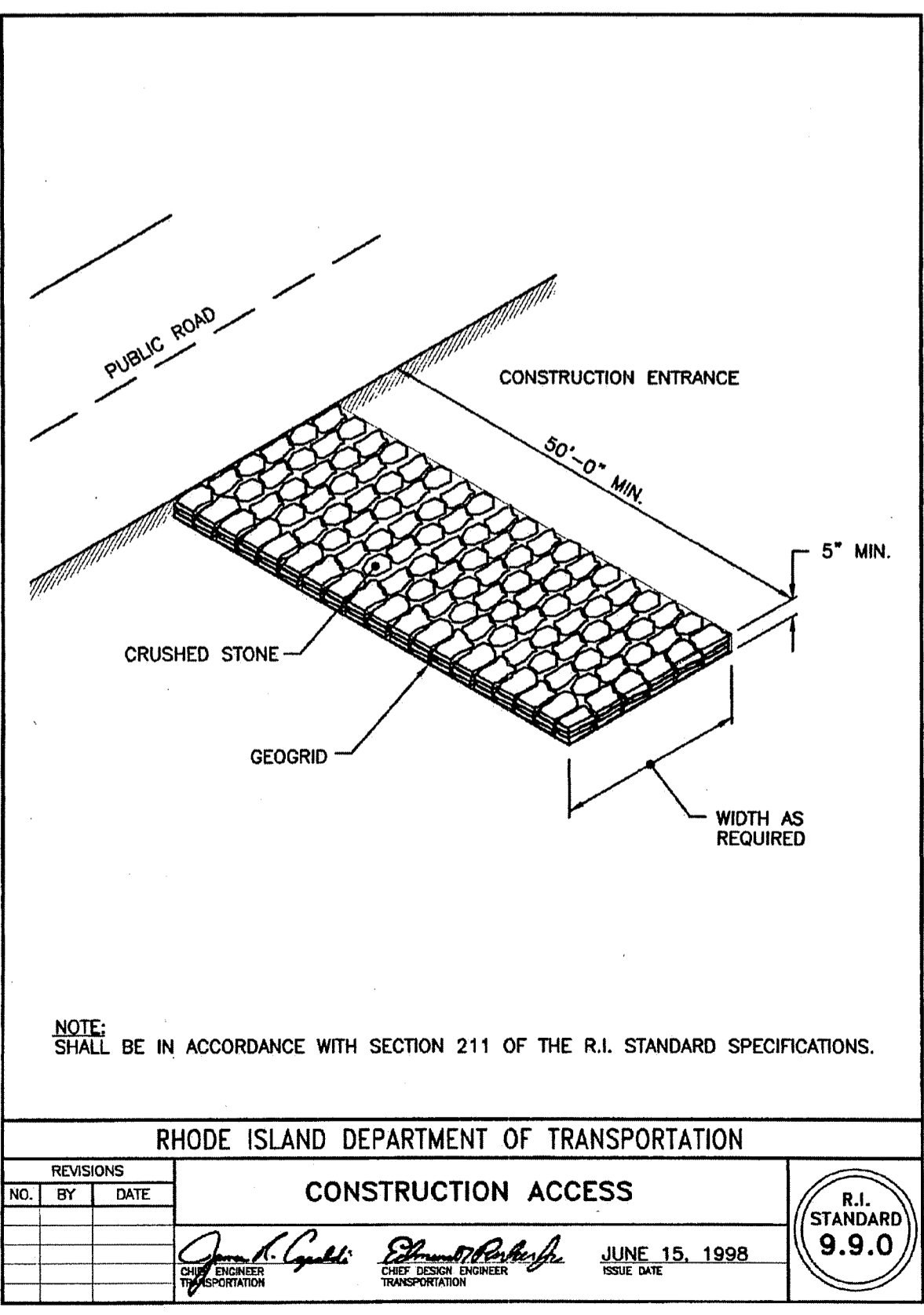
Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
Fax: (401) 268-9885



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

GRASS SWALE	BOTTOM ELEV.	SHGT
AT TP#1	38.20	35.64
AT TP#2	38.80	34.90

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 10/01/2020 FILE # 20-0183
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



- NOTES**
- CLEAR AND GRUB ALL LOCATIONS WITHIN AREA OF L.O.D.
 - ALL BRUSH, DEBRIS, AND UNSUITABLE MATERIAL TO BE REMOVED AND PROPERLY DISPOSED OFF-SITE.
 - CONTRACTOR TO ENSURE THAT ALL EROSION AND SEDIMENTATION CONTROLS ARE IN PLACE PRIOR TO CONSTRUCTION AT THIS LOCATION.
 - WORK IN THIS AREA SHALL BE PERFORMED DURING PERIODS OF NO PRECIPITATION. CONTRACTOR SHALL UTILIZE A TRENCH BOX WHEN EXCAVATING IN REGULATED AREAS AND SHALL MINIMIZE WIDTH AND DEPTH OF EXCAVATION TO THAT NECESSARY TO INSTALL UTILITIES.
 - ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02200.
 - CONTRACTOR SHALL RETURN EXCAVATED SOILS AS BACKFILL FOR UTILITY INSTALLATION UNLESS THESE MATERIALS ARE DETERMINED TO BE UNSUITABLE. (I.E. ROCK, SILT, ETC.)
 - IN THE EVENT THAT UNSUITABLE MATERIALS ARE ENCOUNTERED THEY SHALL BE REMOVED OFF-SITE AND BACKFILL COMPLETED WITH A WELL GRADED GRAVEL MATERIAL.
 - DEWATERING OF FLOWS FROM EXCAVATION SHALL BE COMPLETED IN ACCORDANCE WITH THE NOTES ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
 - PRIOR TO BEGINNING ANY WORK IN THE LOCATION OF THE FACILITY ACCESS ROAD, CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN FOR INSTALLATION OF UTILITIES THROUGH THIS AREA WHICH IS CONSISTENT WITH RIDEM REGULATIONS AND SOIL CONSERVATION SERVICES, EROSION, AND SEDIMENTATION CONTROL MEASURES. THIS PLAN SHALL BE REVIEWED BY THE ENGINEER AND A FIELD MEETING SHALL BE CONDUCTED PRIOR TO BEGINNING THE CONSTRUCTION.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0
JUNE 15, 1998

NO.	REVISION	DATE	APP.
1.	RIDEM COMMENTS	8/2020	GC

DESIGN BY	GEC	CHECKED BY	EJS
DRAWN BY	GEC	ENGINEER	EJS
SCALE	1" = 30'	PROJECT NO.	

CONTRACT NO.	
FILE NAME	2020-03-26_OBP-KCWA CONNECTION TOPO-GEC-CHANGE

APPROVED

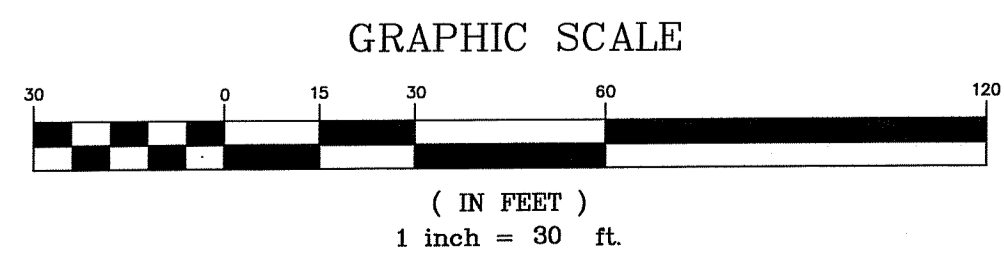
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR
DATE 4-8-20

**QDC - KCWA
RETAIL WATER
SERVICE CONNECTION**
Quonset Development Corporation
Quonset, Rhode Island

**STORMWATER &
SOIL & EROSION PLAN**

Quonset Business Park

SHEET NO. **SP-1**
DRAWING NO. OF 2 SHEETS



SOIL EROSION AND SEDIMENT CONTROL NOTES

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE SOIL EROSION CONTROL MEASURES SHOWN AND DETAILED HEREIN SHOULD BE CONSIDERED THE MINIMUM ACCEPTABLE STANDARDS FOR THE PROJECT. THE INITIAL METHOD OUTLINED IS INTENDED TO ROUTE ALL PRACTICABLE SURFACE WATER FROM THE EXCAVATION AREAS INTO EROSION CONTROL FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST AND INSTALL ANY ADDITIONAL PROTECTIVE MEASURES NECESSARY TO CONTROL RUNOFF FROM THE SITE DURING CONSTRUCTION ACTIVITIES AND ENSURE THAT THE PROJECT SITE AND ALL ADJACENT PROPERTIES ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
3. PRIOR TO COMMENCEMENT OF SITE PREPARATION OR EARTHWORK THE CONTRACTOR SHALL IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESCP).
4. CONTRACTOR SHALL STAKE OUT THE LIMIT OF WORK IN THE FIELD TO ENSURE THAT ALL WORK WILL OCCUR WITHIN THE APPROVED LIMITS OF DISTURBANCE.
5. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES ON SITE, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON SITE TO ESTABLISH SUPERVISORY AND INSPECTION PROCEDURES FOR SEDIMENT AND EROSION CONTROL MEASURES. THE MEETING SHALL BE ATTENDED BY THE CONTRACTOR AND A REPRESENTATIVE FROM QDC.
6. THE EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL & MAINTAIN EROSION CONTROL DEVICES FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
7. THE EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY RAINSTORM TO ENSURE THEY ARE FUNCTIONING PROPERLY, REPAIR ANY DAMAGED AREAS IMMEDIATELY AND REMOVE ALL CAPTURED SEDIMENT AS REQUIRED. A "WALK THROUGH" INSPECTION OF THE CONSTRUCTION SITE SHOULD BE COMPLETED BEFORE ANTICIPATED RAINFALL EVENTS.
8. ADDITIONAL EROSION CONTROL MEASURES SHALL BE PLACED AS DIRECTED BY QDC.
9. DEWATERING OF ALL EXCAVATIONS SHALL BE PUMPED THROUGH DEWATERING BAGS AND DISCHARGED INTO A TEMPORARY SILTATION BASIN WITHIN THE APPROVED PROJECT LIMIT OF DISTURBANCE.
10. AT NO TIME SHALL SILT LADEN WATER BE ALLOWED TO ENTER ENVIRONMENTALLY SENSITIVE AREAS, EXISTING OR NEW DRAINAGE SYSTEMS. RUNOFF FROM DISTURBED AREAS SHALL BE DIRECTED THROUGH A TEMPORARY SILTATION BASIN & EROSION CONTROL MEASURES PRIOR TO ENTERING ANY ENVIRONMENTALLY SENSITIVE AREA OR DRAINAGE SYSTEM.
11. CONTRACTOR SHALL REDUCE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES CAUSED BY CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES SHALL BE SO SCHEDULED SO THAT THE LEAST AREA OF DISTURBED SOIL IS EXPOSED AT ONE TIME. IN DISTURBED AREAS NOT SUBJECT TO TRAFFIC, CONTRACTOR SHALL USE TEMPORARY SEEDING AND MULCHING OPERATIONS. IN DISTURBED AREAS SUBJECT TO TRAFFIC, CONTRACTOR SHALL SPRINKLE SURFACE WITH WATER TO MINIMIZE DUST. DUST CONTROL MEASURES SHALL BE MAINTAINED THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
12. ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVEMENT OR OTHER GROUND COVER SHALL BE PLANTED WITH GRASS ON 4" THICKNESS OF TOPSOIL. IF SEEDING CANNOT BE COMPLETED IMMEDIATELY, DISTURBED AREAS SHALL BE STABILIZED WITH A SPREAD HAY MULCH APPROPRIATELY ANCHORED OR EROSION CONTROL BLANKET.
13. SURFACE STABILIZATION MUST BE IMPLEMENTED WITH 14 DAYS AFTER CONSTRUCTION ACTIVITY IN A PORTION OF THE SITE HAS CEASED OR BEEN TEMPORARILY HALTED.
14. THE CONTRACTOR SHALL INSTALL REINFORCED SILT BARRIER AROUND STOCKPILE AREAS, TRUCK WASH DOWN AREAS AND VEHICLE REFUELING AREAS.
15. AS SOON AS CONSTRUCTION IS COMPLETED, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT AND DEBRIS. THEREAFTER, CLEAN UP SHOULD FOLLOW LONG TERM MAINTENANCE PLAN.
16. THE CONTRACTOR SHALL REMOVE CONSTRUCTION FENCE, SILT BARRIER AND EROSION CONTROL MEASURES ONLY AFTER ESTABLISHMENT OF PERMANENT VEGETATION.
17. CONTRACTOR SHALL COMPLY WITH THE "SOIL EROSION AND SEDIMENTATION CONTROL PLAN".

BMP MAINTENANCE NOTES

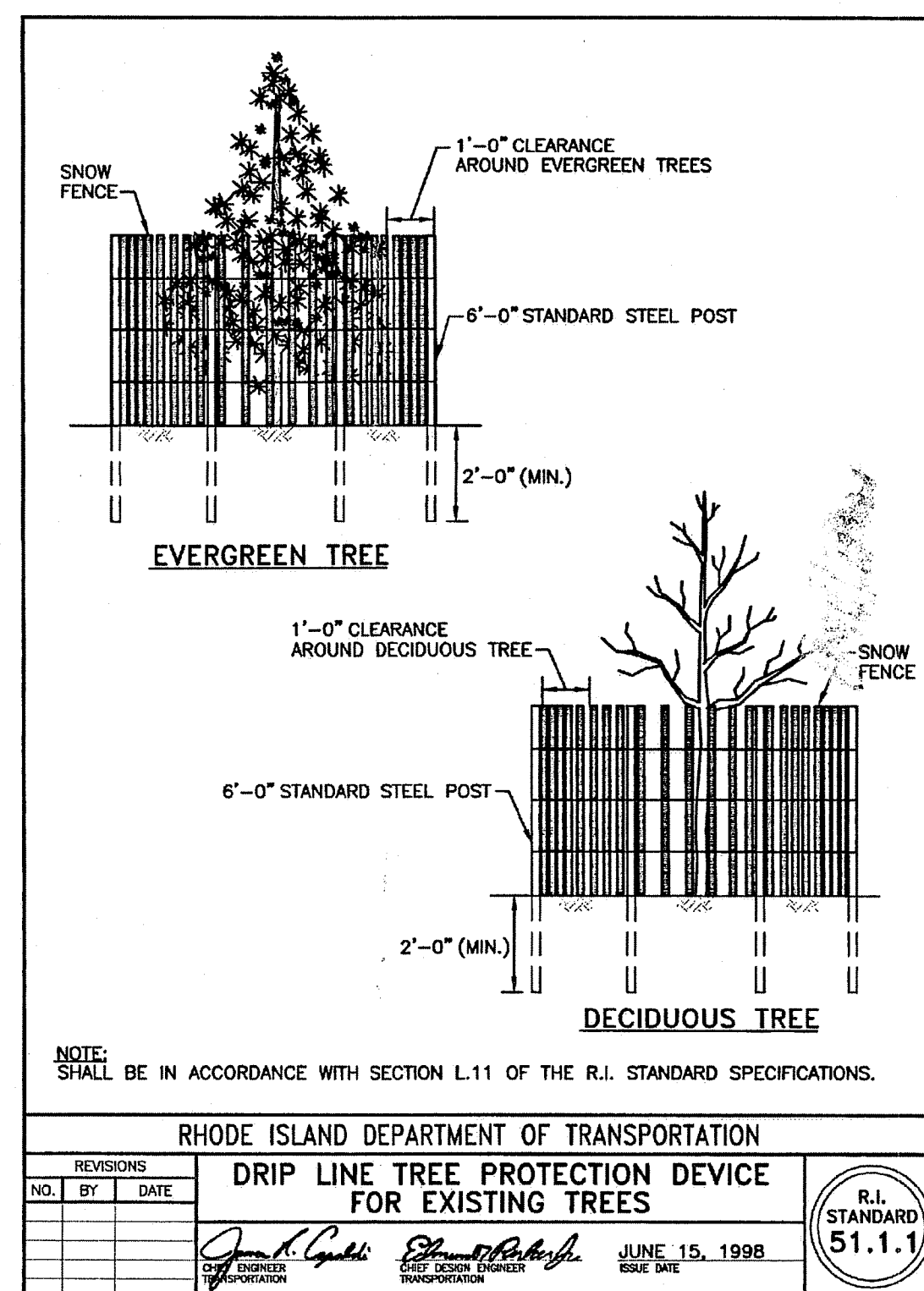
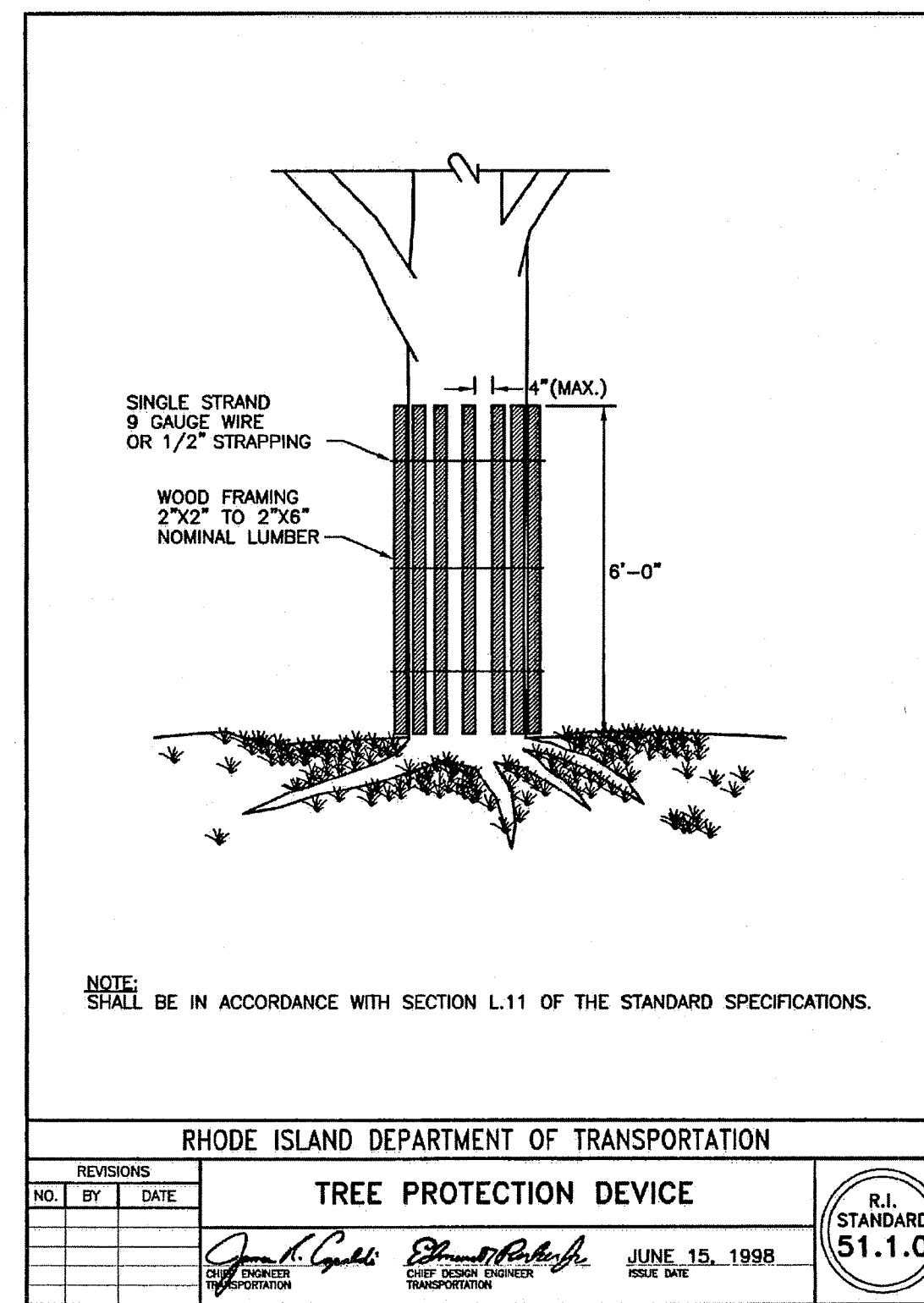
1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - B. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
2. UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. ALL INSTALLATION, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 212 AND SECTION 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE INSTALLATION, CLEANING, INSPECTION, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, 2010).
4. AFTER CONSTRUCTION, STORMWATER BMPs SHALL BE INSPECTED AND MAINTAINED BY THE TENANT AS FOLLOWS:

GRASS SWALE

 - DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE GRASS SWALE SHALL BE INSPECTED AFTER THE FIRST TWO RAINFALL EVENTS OF AT LEAST 1.0 INCH TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL TO 2 INCHES.
 - SEDIMENT SHALL BE CLEANED OUT OF THE GRASS SWALE WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN 1/4 THE DESIGN DEPTH. THE GRASS SWALE OUTLET DEVICES SHALL BE CLEANED/REPAIRED WHEN DRAWDOWN TIMES EXCEEDS 48 HOURS. TRASH AND DEBRIS SHALL BE REMOVED AS NECESSARY.
5. QUONSET DEVELOPMENT CORPORATION (QDC) SHALL HAVE THE AUTHORITY TO INSPECT BEST MANAGEMENT PRACTICES (BMPs) AND MAINTENANCE RECORDS. ANY MAINTENANCE IDENTIFIED BY QDC THAT IS REQUIRED SHALL BE THE COMPLETED AT THE TENANT'S EXPENSE.

FLOOD PLAIN NOTES

1. THIS PROJECT SITE IS LOCATED WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AND ZONE "A" (SPECIAL FLOOD HAZARD AREAS WITHOUT BASE FLOOD ELEVATION) AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF EAST GREENWICH, RHODE ISLAND, COUNTY, COMMUNITY PANEL NO. 44003C0138G, HAVING AN EFFECTIVE DATE OF DECEMBER 3, 2010 AND AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF NORTH KINGSTOWN, RHODE ISLAND, COUNTY, COMMUNITY PANEL NO. 44009C0013H, HAVING AN EFFECTIVE DATE OF OCTOBER 19, 2010.
2. THE FEMA FLOOD LINE WAS AFFIXED TO THE PLAN SET USING THE RIGIS DATA FOR THE FEMA FLOOD INSURANCE.



Site Evaluation Form
Part A - Soil Profile Description Application Number NA
Property Owner: Quonset Development Corporation
Property Location: Frenchtown Rd. (AP 17 Lot 239) East Greenwich, RI
Date of Test Hole: July 6, 2020
Soil Evaluator: Chris Sutter License Number: D-4077
Weather: Clear, 70's Shaded: Yes No Time: 8:00 am

TH 1 Horizon		Horizon Boundaries			Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
Depth	Dist	Topo	Matrix	Re-Dox Features	Ab.	S.	Contr.					
HTM	0-14"	C	S						mixed			Fill
C	14-42"	C	S	2.5Y 5/4					gs	0-sg	L	1
2C	42-108"			2.5Y 5/2	7.5YR 5/8	C	3	P	sil	0-m	fri	7

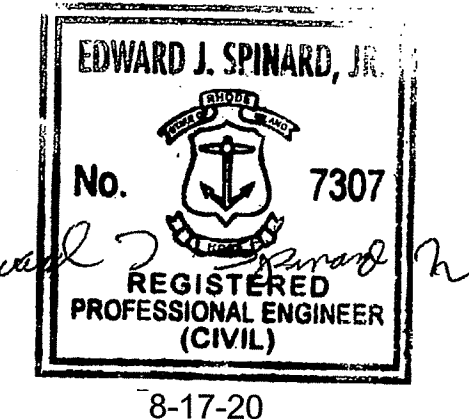
TH 2 Horizon		Horizon Boundaries			Soil Colors		Re-Dox		Texture	Structure	Consistence	Soil Category
Depth	Dist	Topo	Matrix	Re-Dox Features	Ab.	S.	Contr.					
HTM	0-48"	C	S						mixed			Fill
Ab	48-55"	C	S	10YR 2/1					sil	1-sbk	fri	4
Bw	55-70"	C	S	2.5Y 5/4					sil	1-sbk	fri	4
Cg	70-80"	C	S	2.5Y 5/3					sil	0-m	fri	7
2C	80-108"			2.5Y 4/4					s	0-sg	L	1

TH 1 Soil Class: O.W./Eolian Total Depth: 108" Impervious/Limiting Layer Depth: NA (og) GW Seepage Depth: 72" SHWT: 42" (og)
 TH 2 Soil Class: Eolian/O.W. Total Depth: 108" Impervious/Limiting Layer Depth: NA (og) GW Seepage Depth: 72" SHWT: 55" (og)

Comments:
Revised 11/25/18



Development Services
95 Cripe Street
North Kingstown, RI 02852
Tel: (401) 295-0044
Fax: (401) 268-9885



T. NO.	REVISION	DATE	APP.
1.	RIDEM COMMENTS	8/2020	GC

DESIGN BY	GEC	CHECKED BY	EJS
DRAWN BY	GEC	ENGINEER	EJS
SCALE	1" = 30'	PROJECT NO.	

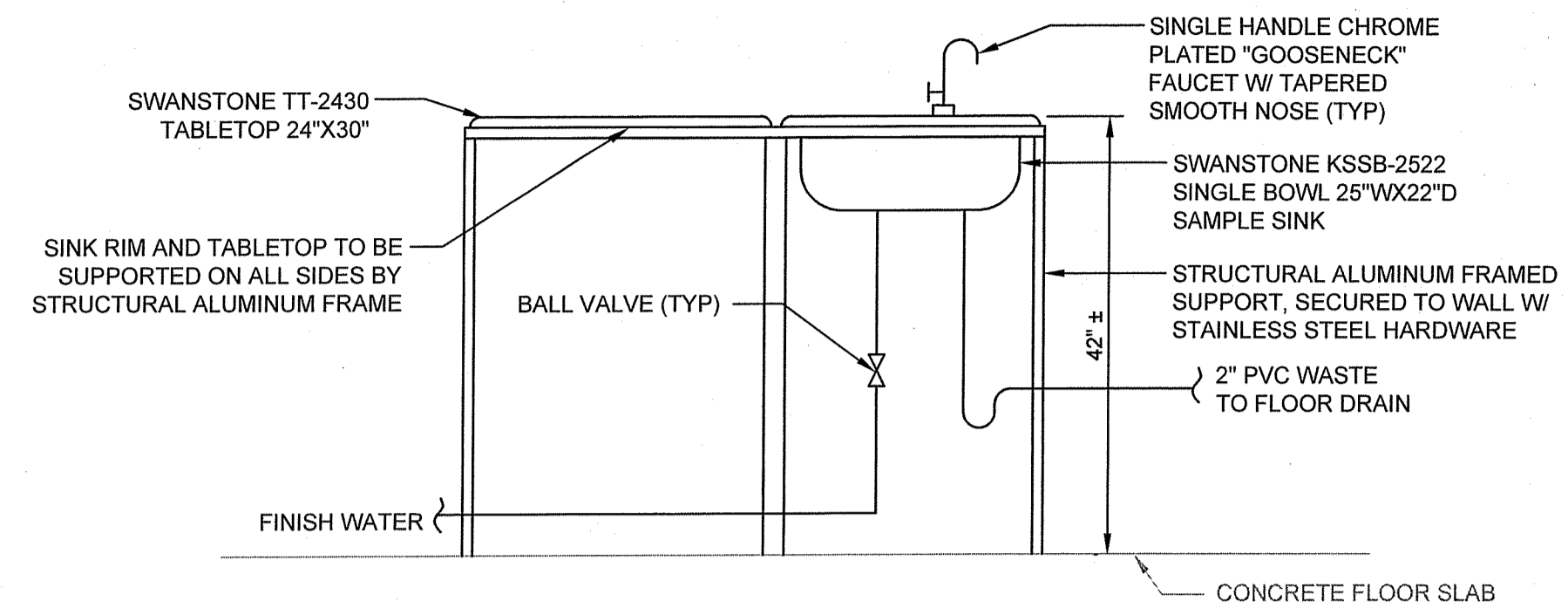
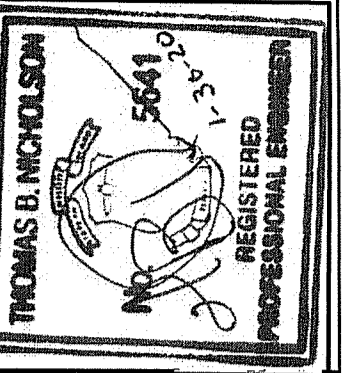
CONTRACT NO.
FILE NAME 2020-03-26_OBP-KCWA CONNECTION TOPO-GEC-CHANGE.WG

APPROVED
EDWARD J. SPINARD, JR., P.E.
QDC DEVELOPMENT SERVICES DIRECTOR
DATE 4-8-20

QDC - KCWA RETAIL WATER SERVICE CONNECTION
Quonset Development Corporation
Quonset, Rhode Island

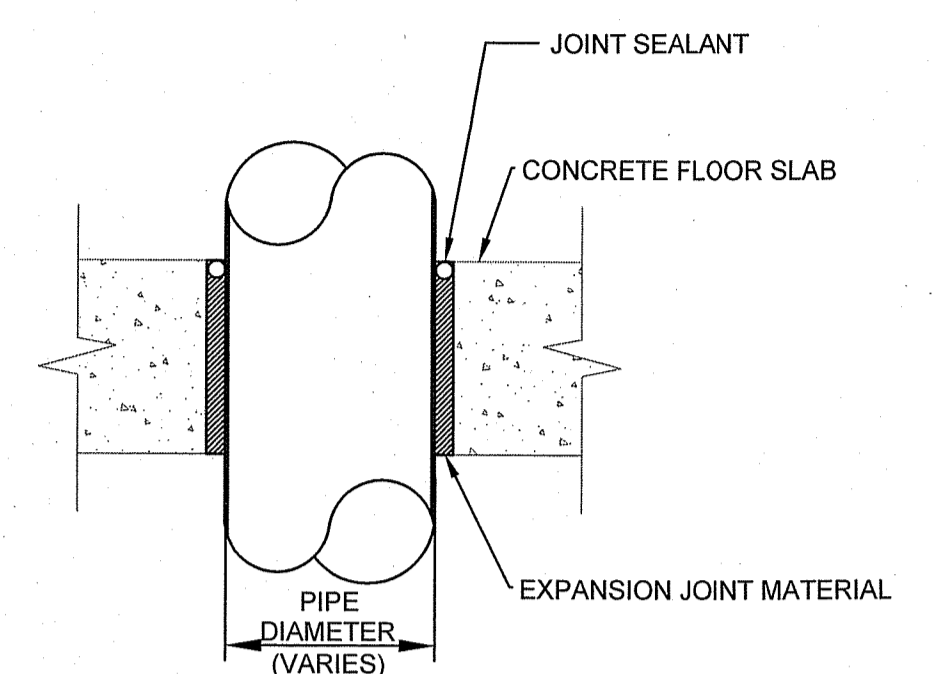
STORMWATER & SOIL & EROSION PLAN II
Quonset Business Park

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

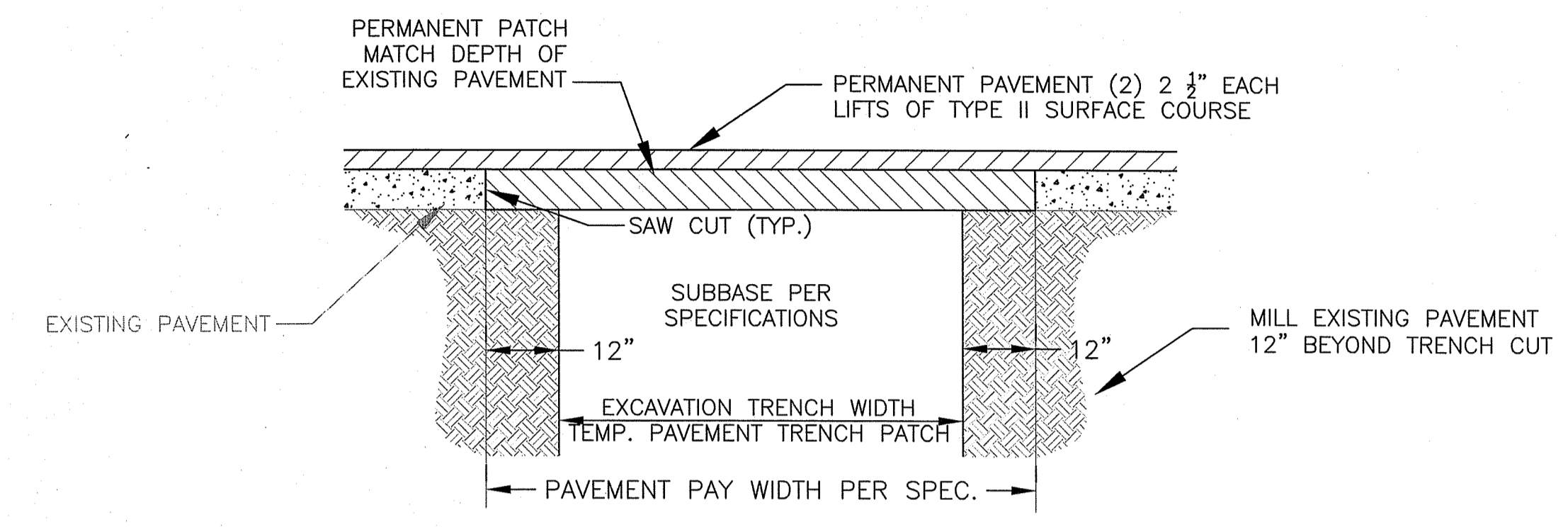


- NOTE: 1. PROVIDE ENGRAVED LOMOCOID NAMEPLATE WITH 1/2" LETTERING MOUNTED AT THE SINK AND LABELED "WATER SAMPLE SINK ONLY". PROVIDE ENGRAVED LOMOCOID NAMEPLATES WITH 3/4" LETTERING MOUNTED ABOVE FAUCET AND LABELED AND "RAW WATER" AND "FINISH WATER".
2. FINISH WATER SAMPLE SUPPLY VIA 1/2" COPPER FROM BUILDING CW PLUMBING SYSTEM.

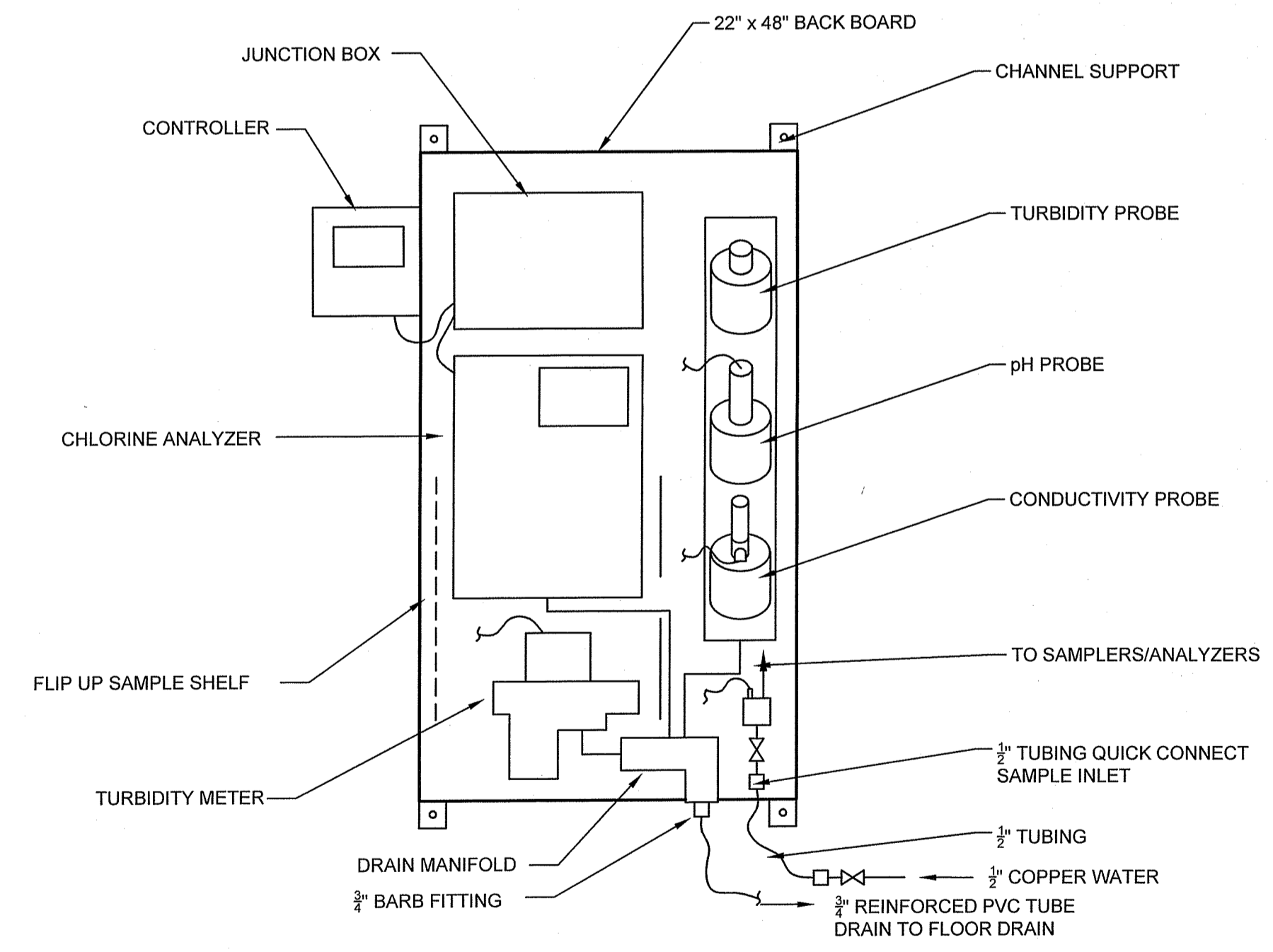
RAW WATER SAMPLE SINK SCHEMATIC
N.T.S.



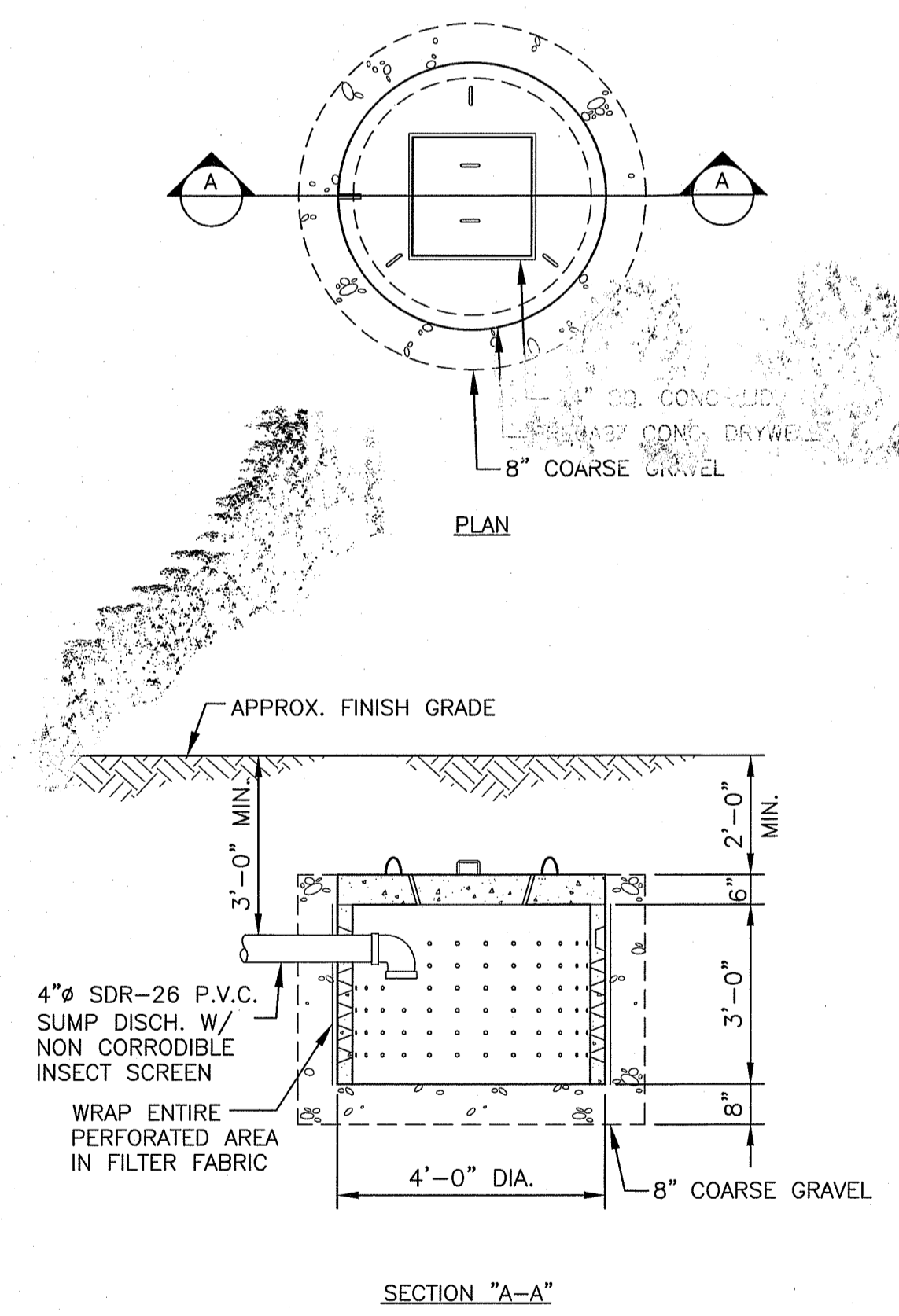
CONCRETE FLOOR PENETRATION
N.T.S.



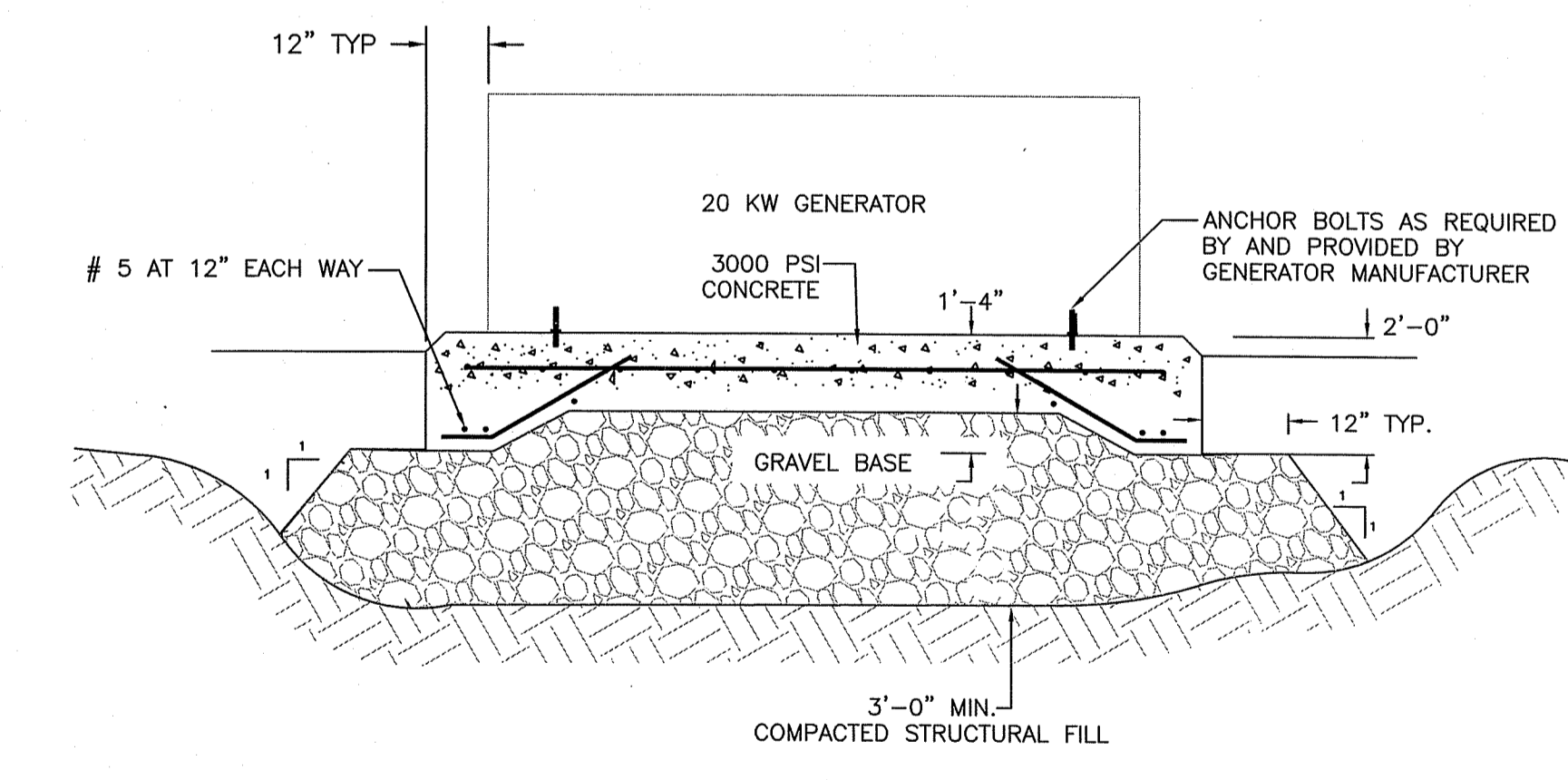
PERMANENT PAVEMENT - (STATE ROADS)
N.T.S.



WATER QUALITY MONITORING PANEL SCHEMATIC
N.T.S.



PRECAST CONCRETE DRYWELL
N.T.S.



GENERATOR CONCRETE PAD DETAIL
N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 04 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

C&E ENGINEERING
CIVIL ENGINEERS, ENVIRONMENTAL PROJECTS.
342 PARK AVENUE
WOONSOCKET, RI 02895
www.ceengr.com
401.752.1711
401.401.235.9088

QUONSET DEVELOPMENT CORP.	QUONSET, RHODE ISLAND
DESIGNED BY: T.B.N.	CHECKED BY: J.A.S.
DATE: 02/2018	DATE: 02/2018

QDC-KCWA RETAIL WATER SERVICE CONNECTION	DETAILS II
SCALE: 1" = 20'-0"	

PROJ. NO. J1601
DWG. NO. D-2

EROSION & SEDIMENTATION CONTROL PLAN

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED HAY BALES SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS AND HAY BALES SHALL BE REMOVED AND DISPOSED. ALL ACCUMULATED TRAPPED SEDIMENTS MUST BE REMOVED TO A SUITABLE UPLAND SITE.
2. INSTALL AND MAINTAIN SEDIMENTATION TRAPS WITHIN THE LIMIT OF SURFACE DISTURBANCE, AS REQUIRED FOR CONTROL OF DEWATERING FLOWS. NO WATERS HANDLED DURING THE CONSTRUCTION PROCESS SHALL BE DISCHARGED DIRECTLY INTO REGULATED AREAS.
3. THE LIMITS OF ALL CLEARING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
4. SOIL STOCKPILES FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS AND SHALL BE SURROUNDED BY STAKED HAY BALES.
5. TEMPORARY VEGETATION AND/OR HAY MULCHING SHALL BE USED TO PROTECT BARE AREAS AND STOCKPILES FROM EROSION DURING CONSTRUCTION. BARE EARTH SLOPES AND SOIL STOCKPILES SHALL BE KEPT TO A MINIMUM AT ALL TIMES. TEMPORARY SEEDING AND MULCHING SHALL BE INSTALLED ON ALL BARE EARTH PRIOR TO ENDING CONSTRUCTION FOR THE WINTER AND AS OTHERWISE NECESSARY.
6. AS SOON AS WEATHER PERMITS AFTER THE COMPLETION OF FINE GRADING, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH PLACEMENT OF LOAM AND A SUITABLE CONSERVATION GRASS SEED MIXTURE AND COVERED WITH A MAT OF LOOSE HAY PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH LOOSE HAY MULCH.
7. DISPOSAL OF EXCESS MATERIALS SHALL BE PERFORMED OFF SITE UNLESS OTHERWISE DIRECTED BY THE OWNER.

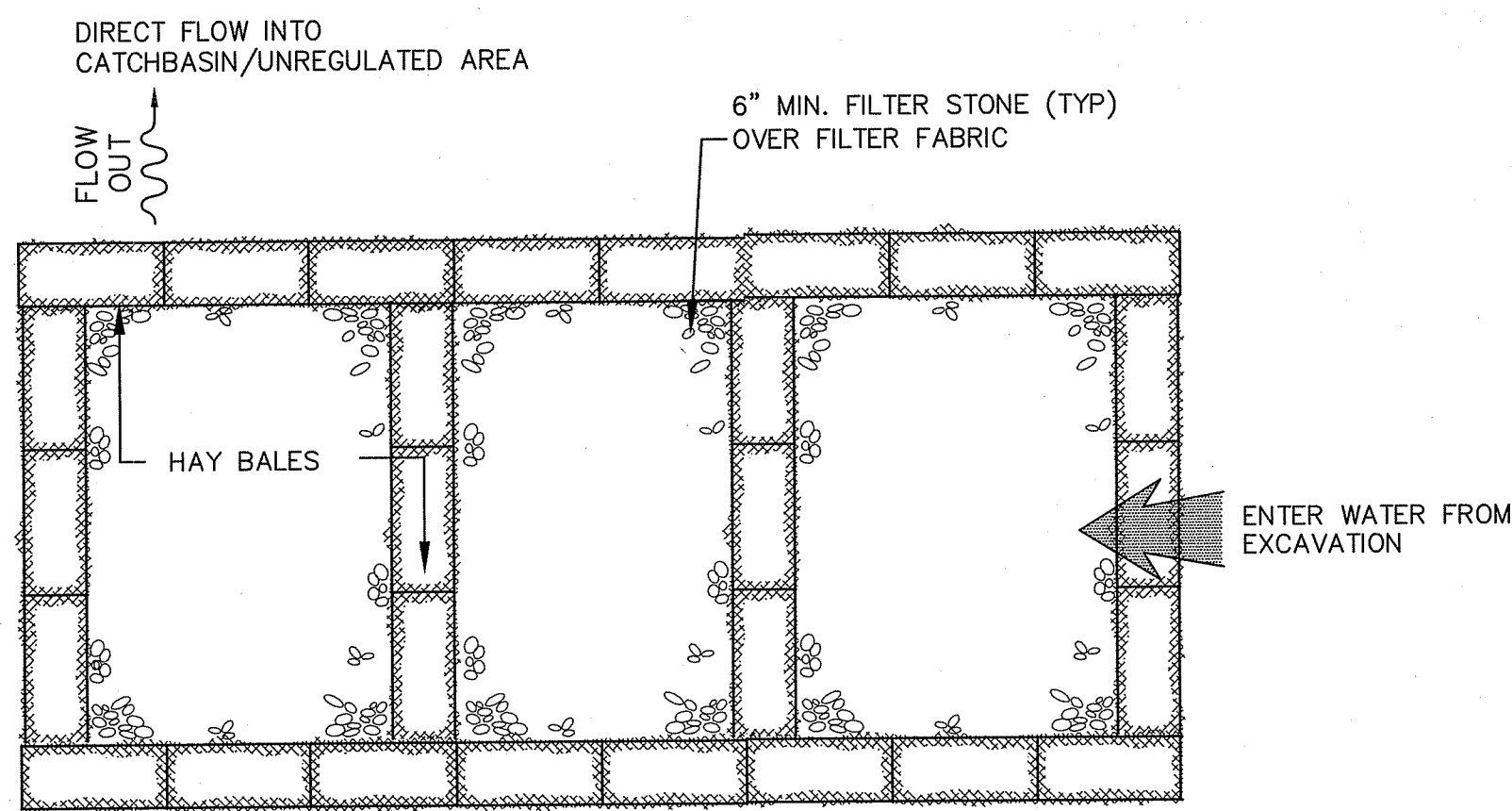
CONSTRUCTION GUIDELINES

1. REFUELING OF VEHICLES AND EQUIPMENT SHALL BE CONDUCTED A MINIMUM OF 200 FEET FROM ALL WETLANDS AND WATER COURSES. A SIGN SHALL BE POSTED WITH SPILL RESPONSE PROCEDURES AND LOCAL FIRE OFFICIALS AND RIDEM INCIDENT RESPONSE PHONE NUMBERS.
2. ALL FUEL, PAINT, COATINGS, AND OTHER HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH IMPERVIOUS FLOOR DURING NON WORK HOURS.
3. MAINTENANCE AND SERVICING OF VEHICLES AND EQUIPMENT AT THE PROJECT SITE IS NOT PERMITTED.
4. A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL E.G. BOOMS, BLANKETS, ETC. SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES IN THE EVENT OF A RELEASE OF HAZARDOUS MATERIALS.

WORK IN REGULATED AREAS NOTES

GENERAL BEST MANAGEMENT PRACTICES

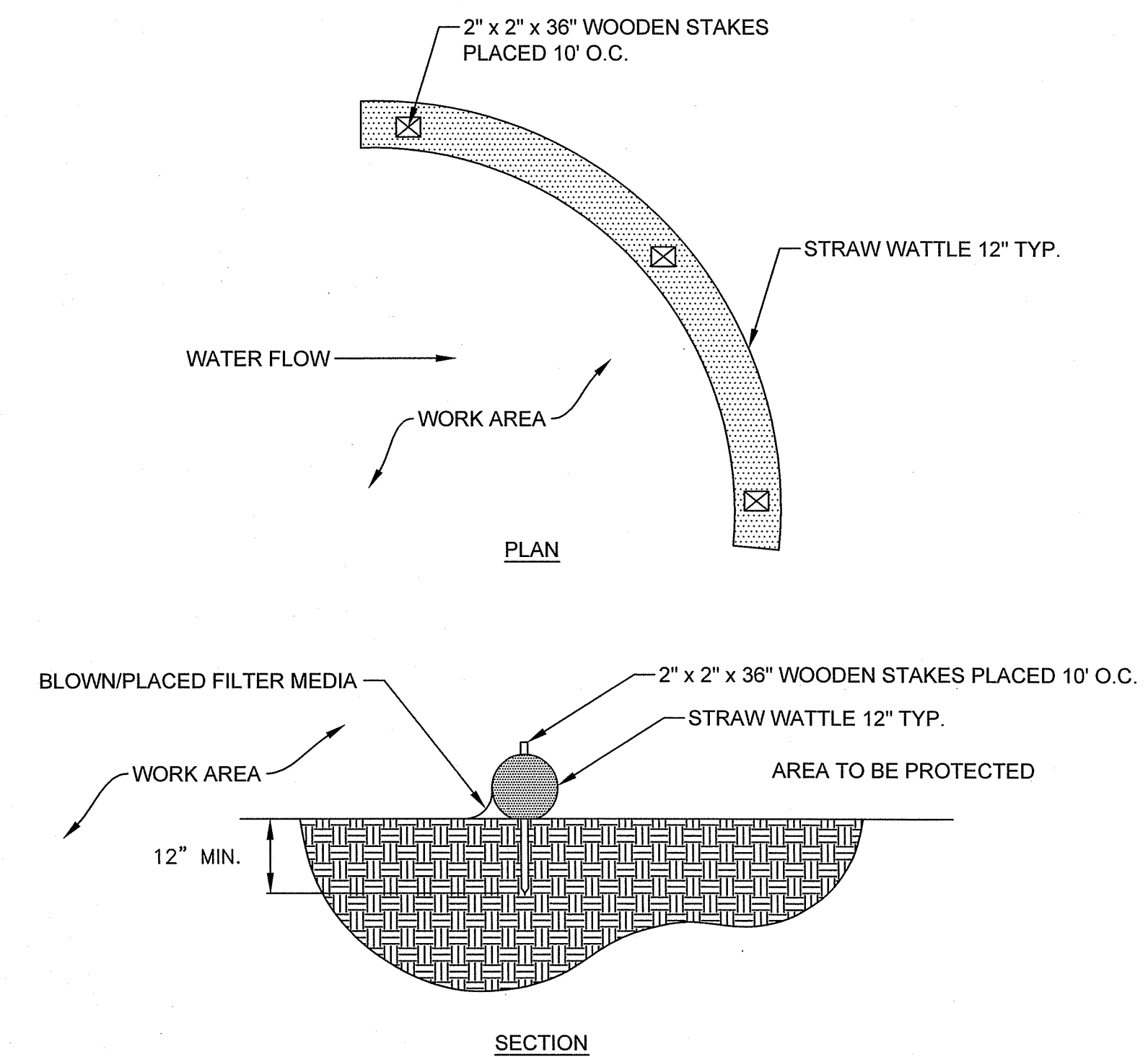
1. CONTRACTOR SHALL PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN WHICH DETAILS MEANS AND METHODS AND LOCATION OF CRITICAL AREAS AND EQUIPMENT.
2. ACCESS TO SENSITIVE ENVIRONMENTAL AREAS SHALL BE RESTRICTED.
3. LOCATE ALL CONSTRUCTION EQUIPMENT AND MATERIALS AWAY FROM REGULATED AREAS.
4. MINIMIZE AREA AND DURATION OF DISTURBANCE IN THE REGULATED AREA.
5. MINIMIZE USE OF HEAVY EQUIPMENT IN REGULATED AREAS AND USE SMALLEST EQUIPMENT POSSIBLE.
6. PLACE ALL EQUIPMENT ON STABLE AREAS.
7. DO NOT CLEAN, SERVICE OR REFUEL EQUIPMENT IN PROXIMITY TO REGULATED AREAS.
8. REMOVE EXCAVATED MATERIALS IN LAYERS AND REPLACE IN ORIGINAL SEQUENCE OF REMOVAL.
9. RETURN AREA TO PRECONSTRUCTION GRADE AND REPLANT ALL DISTURBED AREAS WITH NATIVE VEGETATION.
10. SCHEDULE OPERATIONS IN THE REGULATED AREA DURING A PERIOD OF LOW TO NO FLOW, DURING A PERIOD OF NO PRECIPITATION AND PREFERABLY WHEN THE GROUND IS FROZEN AND / OR DRY TO MINIMIZE GROUND DISTURBANCE AND POTENTIAL LOSS OF SOILS IN EXCAVATION.



- NOTES:**
1. IMPERMEABLE GEOTEXTILE FABRIC TO LINE INTERIOR OF SEDIMENTATION TRAP.
 2. CONTRACTOR TO DETERMINE REQUIRED SIZE OF SEDIMENTATION TRAP AND SECURE HAY BALES AS REQUIRED.

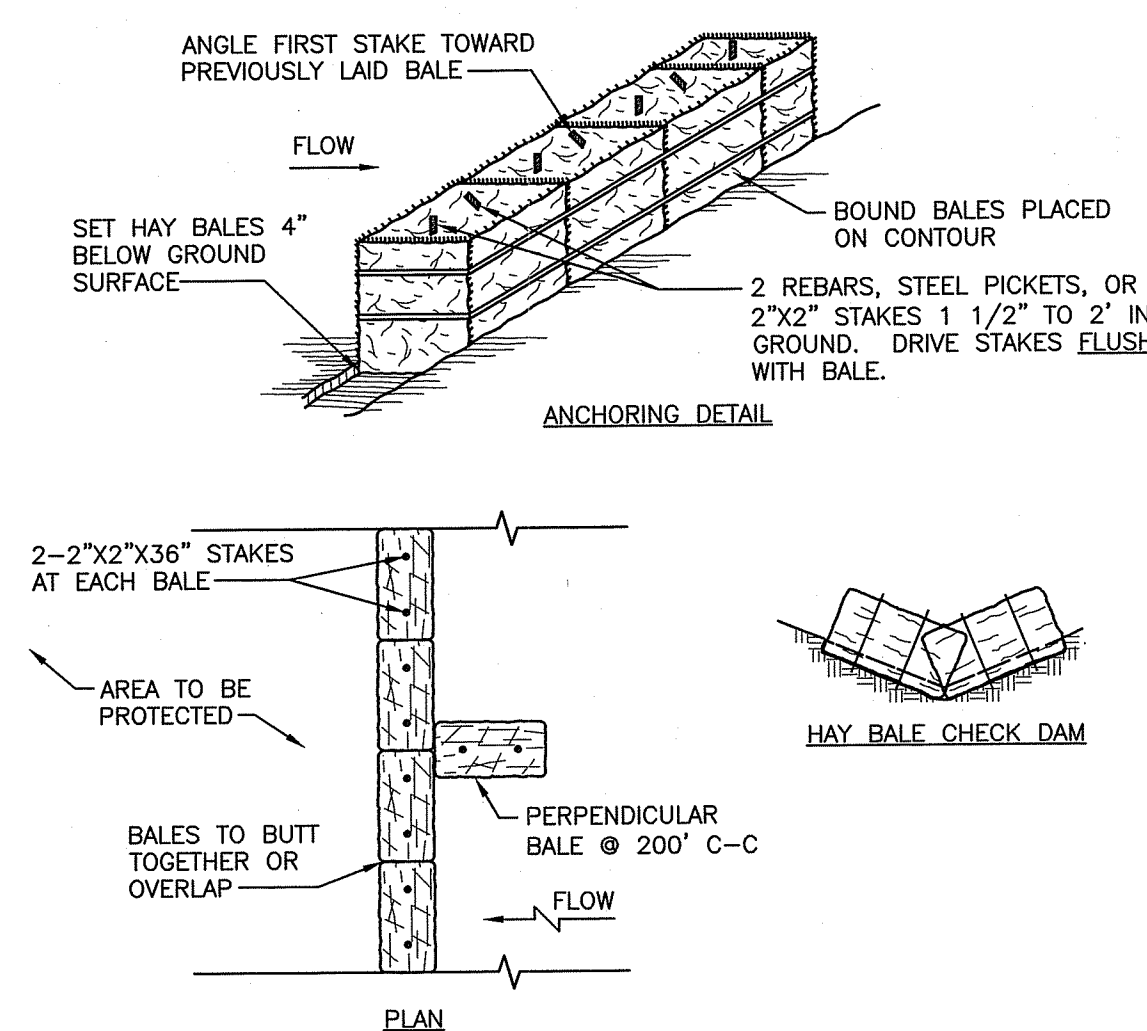
SEDIMENTATION TRAP FOR DEWATERING FLOWS

NTS



STRAW WATTLE DETAIL

NTS

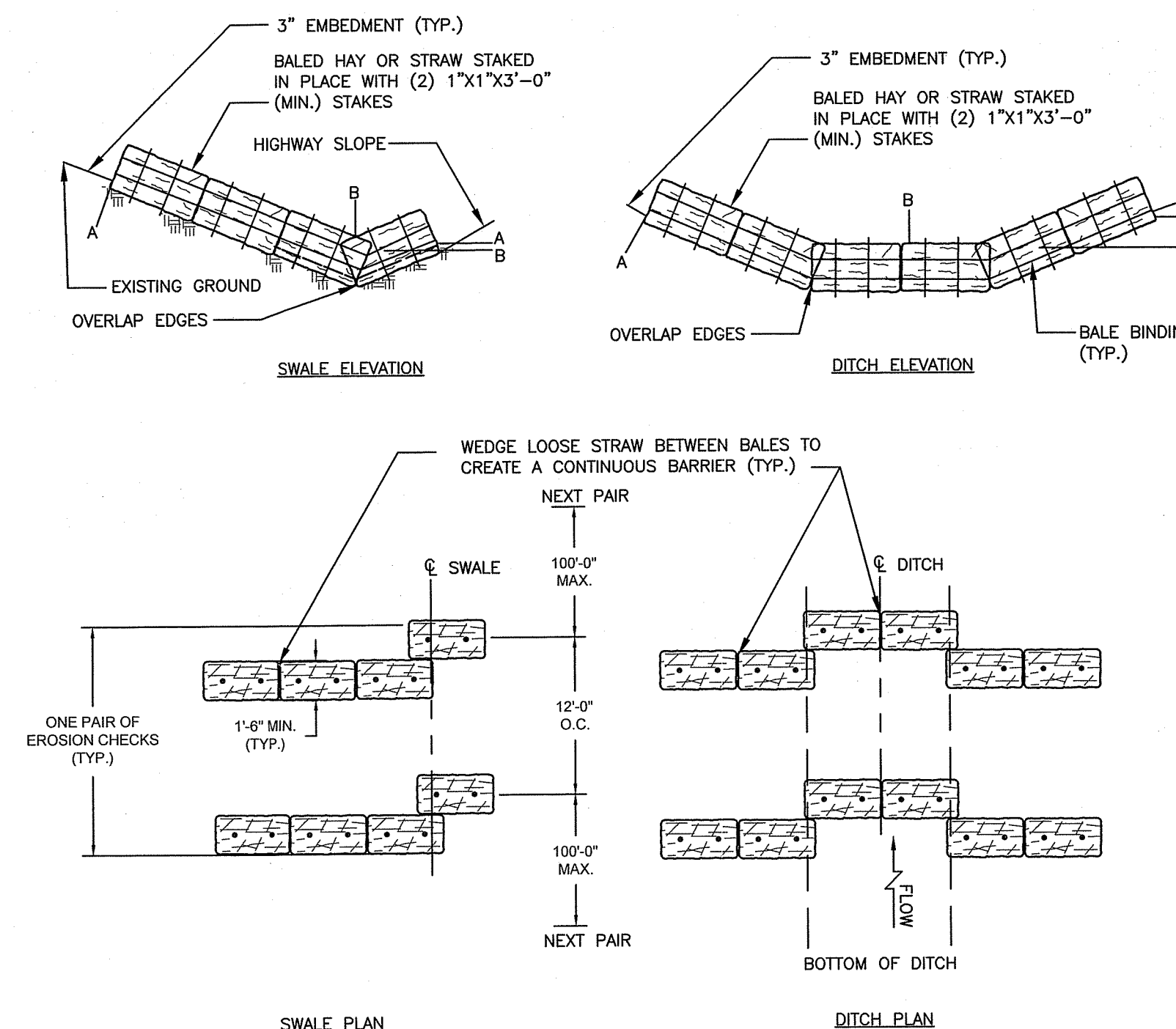


CONSTRUCTION SPECIFICATIONS:

1. HAY BALES ARE TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE PLAN AND ALONG SLOPE CUTS TO PROTECT WETLAND AND REGULATED AREAS FROM SILTATION. AT APPROXIMATELY 200-FOOT INTERVALS, A SINGLE HAY BALE ABUTS PERPENDICULARLY.
2. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR, AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
3. EACH BALE SHALL BE EMBEDDED IN THE SOIL, A MINIMUM OF FOUR INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL.
4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE, AT AN ANGLE, TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
5. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE DETAILS

NTS

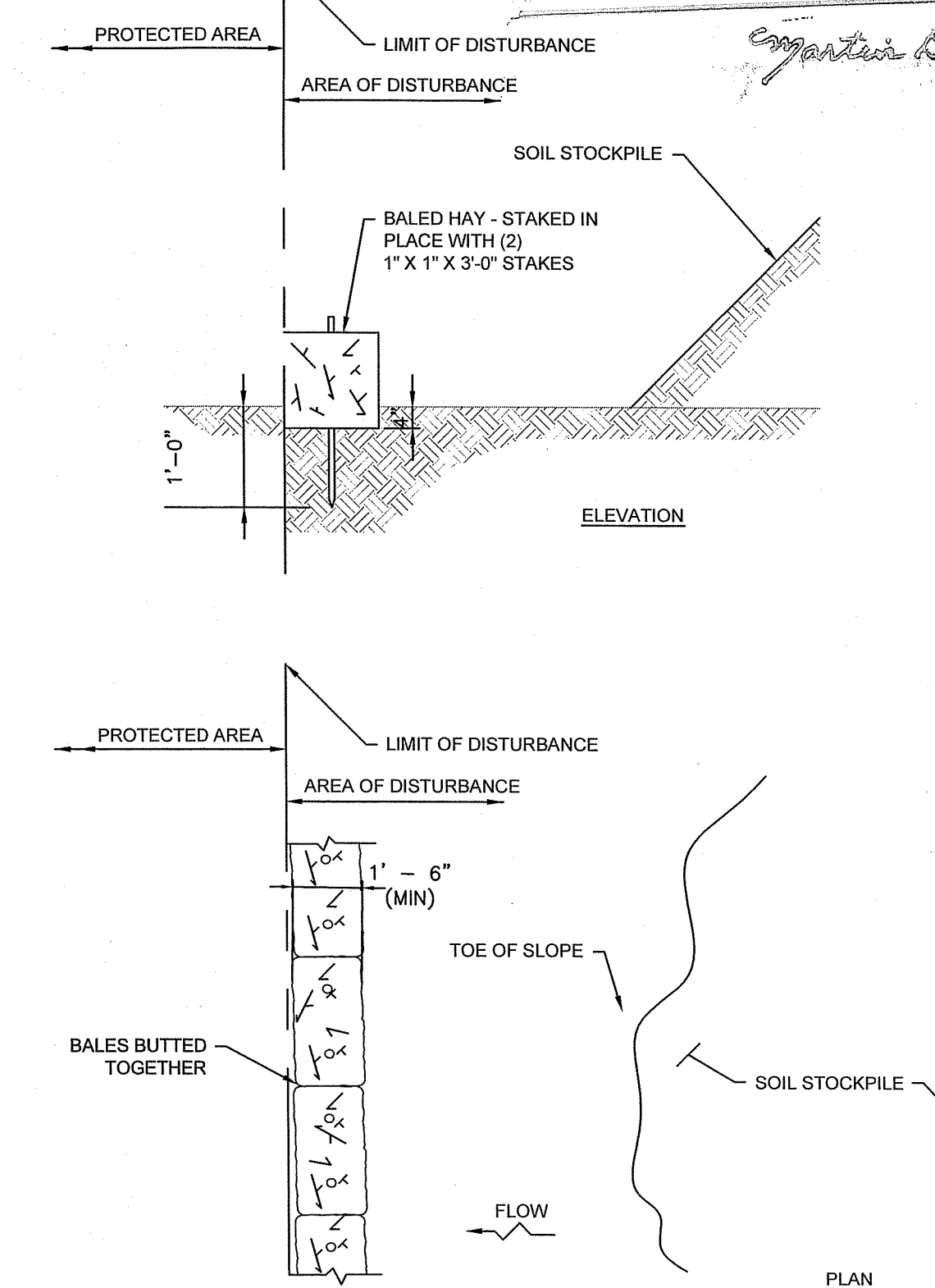


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 207 OF THE R.I. STANDARD SPECIFICATIONS.
2. TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT OR IN DRAINAGE DITCHES AS CALLED FOR ON THE PLANS.
3. THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, HIGHWAY SLOPE OR DITCH SECTION.
4. POINTS "A" SHOULD BE AT A HIGHER ELEVATION THAN POINTS "B".

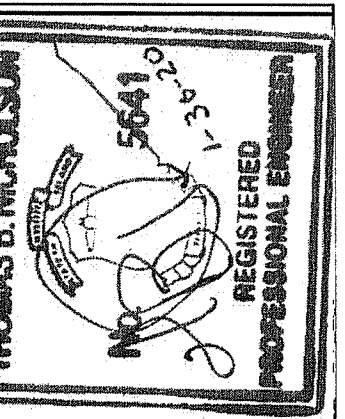
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 14 2017 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christopher D. Schenck



EROSION CONTROL AT TEMPORARY SOIL STOCKPILES

NTS



C&E ENGINEERING
CIVIL ENGINEERS, ENVIRONMENTAL PROJECTS.

QUONSET DEVELOPMENT CORP.
QUONSET, RHODE ISLAND

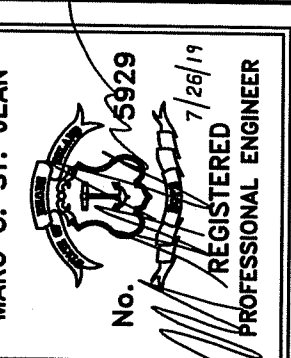
QDC-KCWA RETAIL WATER SERVICE CONNECTION
EROSION CONTROL DETAILS

PROJ. NO. J1601
DWG. NO.

D-3

DESIGNED BY: DATE:
T.B.N. 02/2018
DRAWN BY: DATE:
J.A.S. 02/2018

342 PARK AVENUE
WICKSOKCKET, RI 02895
www.ceengineering.com
401.762.1711
Fax: 401.235.9086

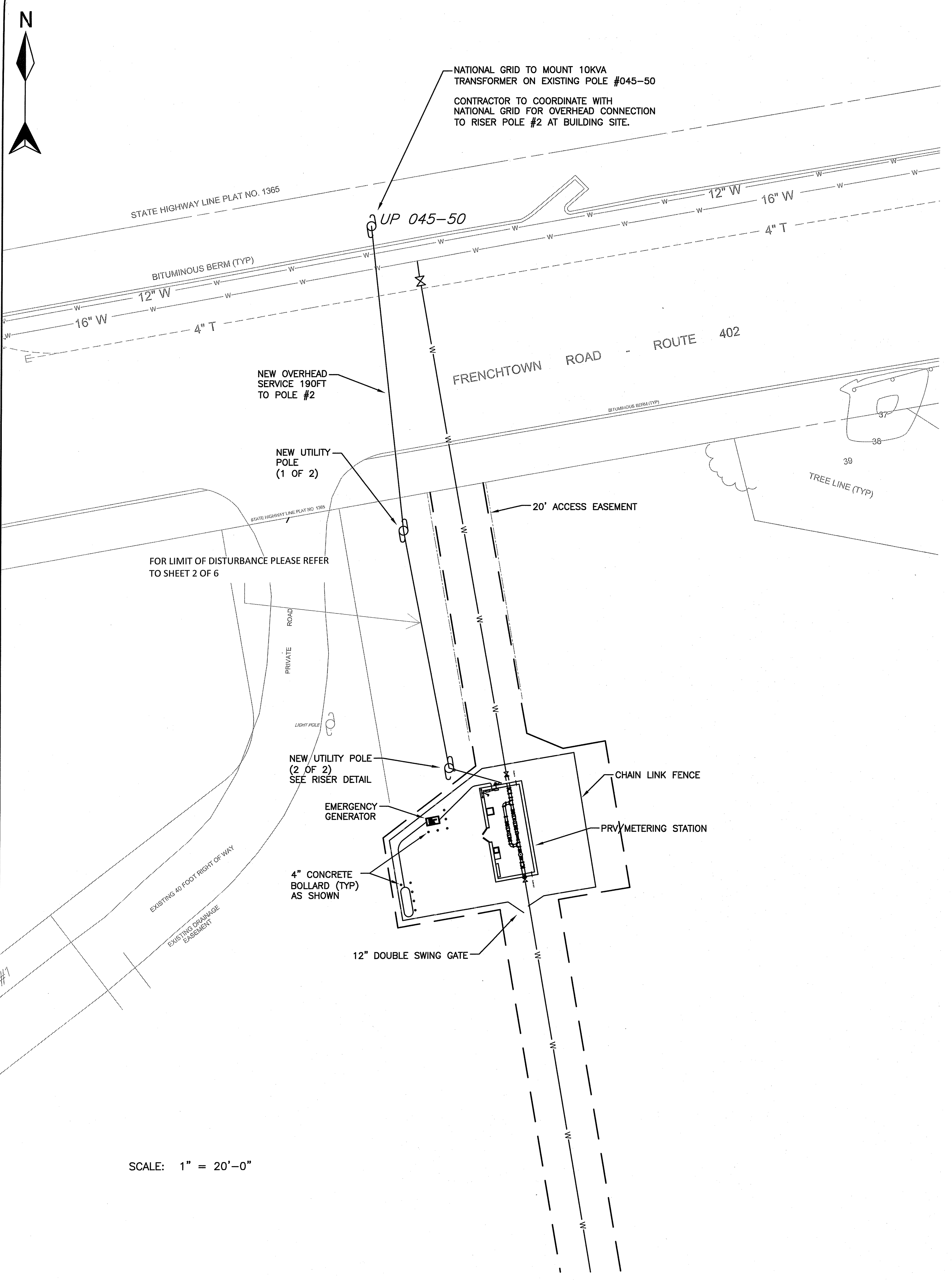


C&E ENGINEERING
CIVIL ENGINEERS, ENVIRONMENTAL PROJECTS.
342 PARK AVENUE
WACONSOCKET, RI 02895
WWW.CEENGINEERING.COM
401.762.1711
FAX: 401.235.9088

QUONSET DEVELOPMENT CORP.
QUONSET, RHODE ISLAND
DESIGNED BY: MSJ DATE: 7/2019
CHECKED BY: DATE:
DRAWN BY: MSJ DATE: 7/2019
CHECKED BY: DATE:

QDC-KCWA RETAIL
WATER SERVICE CONNECTION
ELECTRICAL SITE PLAN
ELECTRICAL NOTES

PROJ. NO. J1601
DWG. NO. E-2



GENERAL CONDITIONS:

- IT IS THE INTENT OF THIS PLAN TO SHOW THE GENERAL EXTENT OF THE WORK PROPOSED.
- PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL PER THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (CURRENTLY NEC2014/2017) AND LOCAL AUTHORITY HAVING JURISDICTION.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ELECTRICAL WORK.
- ALL ELECTRICAL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NATIONAL ELECTRICAL CODE (CURRENTLY NEC2014/2017) ALONG WITH ALL APPLICABLE NATIONAL GRID SPECIFICATION AND APPROVAL REQUIREMENTS.
- ANY ADDITIONAL SMALL BRANCH CIRCUIT WIRING TO BE INSTALLED IN LIQUID TIGHT FLEXIBLE CONDUIT AS NECESSARY FOR DEVICE AND EQUIPMENT CONNECTIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE 3/4" EXTERIOR GRADE PLYWOOD BACKING FOR TRANSFER SWITCH/ELECTRICAL PANEL COMBINATION.
- REFER TO PROJECT MANUAL DIVISION 16 FOR ADDITIONAL AND DETAILED ELECTRICAL SPECIFICATIONS.

MAIN ELECTRICAL REQUIREMENTS

- A NEW, CUTLER HAMMER CH22B100R, 100AMP RATED LOADPANEL WITH 100AMP MCB AND MINIMUM OF 10KA RMS SHORT CIRCUIT RATING OR GREATER, IS TO BE INSTALLED AT THE MAIN SERVICE ENTRANCE. THE LOCATION SHALL BE ON THE RIGHT SIDE UPON ENTRY TO THE BUILDING.
- A NEW, 100 AMP AUTOMATIC TRANSFER SWITCH, MODEL RXT-JFNC-0100A DESIGNED FOR USE WITH THE SPECIFIED KOHLER GENERATOR, IS TO BE INSTALLED. REFER TO SPECIFICATION 16500 FOR ADDITIONAL INFORMATION.
- SECONDARY UTILITY POWER WILL BE OVERHEAD FROM A SINGLE-PHASE 10KVA POLE-MOUNT TRANSFORMER LOCATED ON THE NORTH SIDE OF FRENCHTOWN ROAD APPROXIMATELY 190FT FROM THE PROPERTY AS SHOWN IN THE DRAWING. SECONDARY POWER WILL TRANSITION FROM THE RISER POLE TO UNDERGROUND CONDUIT TO THE BUILDING METER SOCKET AS SHOWN.
- FOR CONDUITS ENTERING THE BUILDING FROM THE EARTH, EXPANSION JOINTS SHALL BE USED AND BE VISIBLE ABOVE GROUND.
- EXPANSION JOINT SHALL BE USED ALSO AT RISER POLE.
- PROVIDE 1 ADDITIONAL CIRCUIT FOR GENERATOR BATTERY CHARGING CIRCUIT.
- INSTALL SENTREX SURGE PROTECTION DEVICE (PA120T). ATTACH TO MAIN ELECTRICAL PANEL.
- GROUNDING ELECTRODE: 5/8" COPPER 8FT LENGTH BURIED AND 2" EXPOSED A.F.F. FOR CONNECTION WITH CONTINUOUS #4 AWG BARE COPPER GROUND WIRE TO BUILDING FOUNDATION REINFORCING BAR AND CONTINUOUS TO ELECTRICAL PANEL.
- AS SHOWN, BUILDING INTERIOR CURRENTLY HAS TWO GENERAL PURPOSE 20AMP CIRCUITS. THE LOCATION SHOWN FOR THESE OUTLETS IS SUBJECT TO OWNERS REVIEW AND CHANGE OF QUANTITY AND/OR LOCATION.

GENERATOR NOTES

- REFER TO SITE PLAN FOR EXACT LOCATION.
- PROVIDE MINIMUM OF 54" BY 31" BY 4" CONCRETE PAD AS PER GENERATOR INSTALLATION INSTRUCTIONS. KOHLER PAD GM90970.
- REFER TO GENERATOR MANUAL FOR ADDITIONAL GROUNDING INSTRUCTIONS.
- PROVIDE BOLLARDS AS SHOWN IN DRAWING. BOLLARDS SHALL BE MINIMUM 4" DIAMETER AND CONCRETE-FILLED. HEIGHT ABOVE GROUND TO BE 3FT MINIMUM AND 2FT MINIMUM BELOW GRADE ENCASED IN 12IN DIAMETER CONCRETE.

MAIN LIGHTING REQUIREMENTS

- OUTDOOR LED LIGHTING WALLPACK TO BE FURNISHED WITH FACTORY EQUIPPED PHOTOCELL OPTION. IF REQUESTED, WIRE FIXTURE TO SEPARATE WALL SWITCH FOR ON(PHOTOCELL)/OFF OPERATOR SELECTION. LOCATE LIGHT SWITCH NEAR MAIN ENTRANCE INSIDE BUILDING.
- ALL LAMP FIXTURES ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND SHALL BE THOSE INDICATED BY THE LIGHTING SCHEDULE.
- INTERIOR STRIP-LIGHTING MOUNTING HARDWARE SHALL MATCH AND BE COORDINATED WITH THE INSTALLED CEILING. SYSTEM. LIGHTS SHOULD BE A MINIMUM OF 8FT ABOVE FINISHED FLOOR. MOUNTING METHOD SHALL BE DETERMINED AT TIME OF INSTALLATION BY ELECTRICAL CONTRACTOR.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED WITH LETTER OF APPROVAL
DATED DEC 4 2020 FILE # 20-0103
NO CHANGES ALLOWED WITHOUT THE WRITTEN
APPROVAL OF THE ENGINEER.
Christopher B. Weneck

SCALE: 1" = 20'-0"