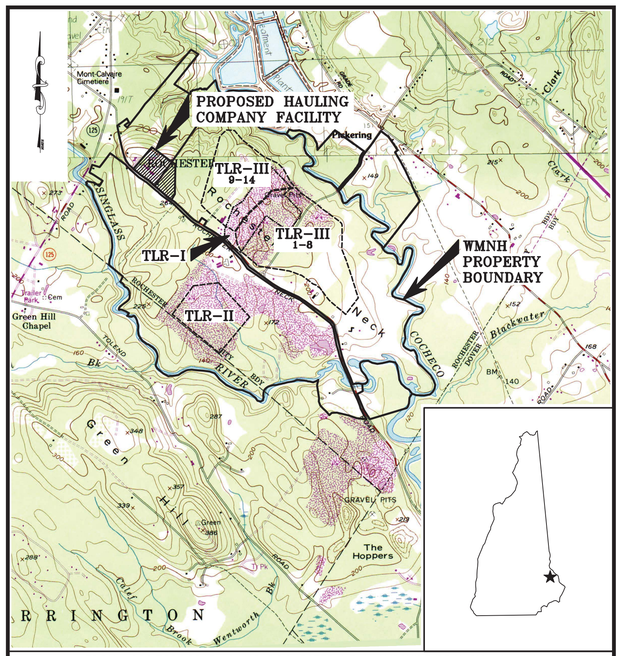
ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.

ROCHESTER, NEW HAMPSHIRE
APRIL 2018
LAST REVISED SEPTEMBER 2018



FROM: USGS TOPOGRAPHIC MAP- ROCHESTER, NEW HAMPSHIRE (PROVISIONAL 1983)

LOCUS PLAN

SCALE: 1"=2000'

SHEET INDEX

3 FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

THE DEVELOPMENT DEPICTED IN THESE DRAWINGS MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW-INCLUDING ALL PERTINENT PROVISIONS OF THE "CITY OF ROCHESTER SITE PLAN REGULATIONS"- UNLESS OTHERWISE WAIVED.

REVISION TABLE

NO.	DATE	DESCRIPTION	BY
4	09/13/18	REVISED PAVEMENT SUBBASE SECTION,	MNH
		CORRECTED HYDRODYNAMIC	
		SEPARATOR SCHEDULE	
3	07/30/18	REVISED PLANNING DEPARTMENT	DTL
		ADDRESS AND ADDED FIRE TRUCK TURN	
		CLEARANCES ON SHEET 6.	
2	07/09/18	MODIFIED APRON DIMENSIONS ON	DTL
		VEHICLE MAINTENCE BUILDING.	
1	06/28/18	REVISIONS PER CITY OF ROCHESTER	DTL
		PLANNING BOARD APPROVAL AND FIRE	
		DEPARTMENT REQUEST.	

STATE OF NEW HAMPSHIRE
ERIC SCOTT STEINHAUSER
No. 11686
LICENSED
PROFESSIONAL ENGINEER

PREPARED FOR:

WASTE MANAGEMENT

WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PREPARED BY:

SANBORN HEAD

20 FOUNDRY STREET, CONCORD, NEW HAMPSHIRE 03301
(603) 229-1900 FAX (603) 229-1919

PROJ.#: 4292.00 "ROCHESTER HAULING COMPANY" APRIL 2018

REFERENCE NOTES

1. EXISTING TOPOGRAPHY AND SITE FEATURES WERE PROVIDED TO SANBORN HEAD IN ELECTRONIC FILES TITLED, "TREE17-01.DWG" THROUGH "TREE17-12.DWG" COMPILED USING PHOTOGRAMMETRIC METHODS BY QUANTUM SPATIAL OF DULLES, VIRGINIA FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. (WMNH) USING AERIAL PHOTOGRAPHY DATED APRIL 23, 2017 AT AN ORIGINAL SCALE OF 1" = 100' AND CONTOUR INTERVAL OF 2 FEET. VERTICAL DATUM IS BASED ON NGVD 1929. GRID IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 1983.

2. WETLAND AREAS REPRESENT A COMPILATION OF INFORMATION DETERMINED USING EXISTING AERIAL PHOTOGRAPHY, SOILS INFORMATION, U.S.F.W.S. NATIONAL WETLAND INVENTORY MAPS, AND DELINEATIONS WITHIN THE PROJECT AREA CONDUCTED IN OCTOBER AND DECEMBER 2014 AND SUPPLEMENTED WITH ADDITIONAL DELINEATIONS PERFORMED BETWEEN SEPTEMBER 2000 AND JUNE 2015 BY BARRY H. KEITH, NH CWS #087, IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.01 (A-C) USING THE METHODS OUTLINED IN THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JANUARY 1987) AND FIELD IDENTIFYING HYDRIC SOILS IN NEW ENGLAND (VERSION II) PUBLISHED BY THE N.E. INTERSTATE WATER POLLUTION CONTROL COMMISSION. WETLAND AREAS WERE CLASSIFIED IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.02 USING THE USFWS/OBS-79/31 MANUAL CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES (COWARDIN ET AL, 1979).

3. LIMIT OF WETLANDS PERTINENT TO THE TLR-III SOUTH AREA WERE MAPPED BY WSP TRANSPORTATION AND INFRASTRUCTURE, INC. OF NASHUA, NEW HAMPSHIRE, USING TOTAL STATION SURVEY METHODS AND PROVIDED ELECTRONICALLY ON NOVEMBER 7, 2014 AND FEBRUARY 3, 2015, AND SUPPLEMENTED WITH LIMIT OF WETLANDS PREVIOUSLY DELINEATED IN 2000 AND 2008.

4. EXISTING UTILITIES SHOWN WERE COMPILED FROM THE FOLLOWING SOURCES. LOCATIONS SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL CONFIRM IN THE FIELD THE LOCATIONS OF UTILITIES WITHIN THE LIMIT OF DISTURBANCE:

   4.1. ACTUAL ON-THE-GROUND SURVEY DONE WITH A COMBINATION OF GPS RTK AND CONVENTIONAL SURVEY METHODS, CONDUCTED BY WSP ON OCTOBER 8, OCTOBER 10, OCTOBER 27, 2014, AND SEPTEMBER 22, 2015.

   4.2. A PLAN TITLED "LTP EFFLUENT FORCEMAIN ASBUILT, WASTE MANAGEMENT OF NEW HAMPSHIRE, INC., ROCHESTER, NH" PREPARED BY SUR CONSTRUCTION, INC. OF ROCHESTER, NH DATED MARCH 3, 2010.

   4.3. A PLAN TITLED " RECORD DRAWING, ROCHESTER NECK ROAD ROADWAY IMPROVEMENTS, ROCHESTER, NH" PREPARED BY GCG ASSOCIATES, INC. OF LYNNFIELD, MA DATED AUGUST 1991.

   4.4. ACTUAL ON-THE-GROUND SURVEY DONE USING GPS RTK SURVEY METHODS, CONDUCTED BY WMNH IN FALL 2017.

   4.5. HISTORICAL SKETCHES OF THE SITE PROVIDED TO SANBORN HEAD BY WMNH.

   4.6 TAYLOR AVENUE WATER LINE LOCATION DIGITIZED FROM A PLAN SET TITLED " FOREST MEADOWS SITE PLAN, ROCHESTER NECK ROAD, ROCHESTER, N.H." PREPARED BY DURGIN/SCHOFIELD ASSOCIATES, DATED MARCH 2, 1987.

5. PROPERTY LINE INFORMATION WAS TAKEN FROM A PLAN TITLED "BOUNDARY COMPILATION AND FOOTPRINT COMPILATION OF TLR-I AND TLR-III, ROCHESTER NECK ROAD, ROCHESTER, NEW HAMPSHIRE" PREPARED FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. BY CHAS. H. SELLS, INC. OF NASHUA, NEW HAMPSHIRE DATED JANUARY 29, 2002 AT A SCALE OF 1" = 300'. ALL OTHER PROPERTY LINE INFORMATION WAS OBTAINED FROM ELECTRONIC (AUTOCAD) TAX MAP FILES CREATED BY CAI TECHNOLOGIES OF LITTLETON, NEW HAMPSHIRE.

6. ZONING INFORMATION IS BASED ON THE CITY OF ROCHESTER, NH ZONING MAP PREPARED BY NORWAY PLAINS ASSOCIATES, INC. OF ROCHESTER, NEW HAMPSHIRE, ADOPTED APRIL 14, 2014.

7. THE 100-YEAR FLOODPLAIN IS BASED ON INFORMATION PROVIDED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "FLOOD INSURANCE RATE MAP, STRAFFORD COUNTY, NEW HAMPSHIRE" PANEL 302 OF 405, EFFECTIVE DATE SEPTEMBER 30, 2015.

MATERIAL SPECIFICATIONS

1. ORDINARY FILL SHALL BE NATURAL SOIL WITH NO PARTICLES LARGER THAN 8 INCHES.
2. GRANULAR FILL SHALL BE NATURAL SOIL WITH NO PARTICLES LARGER THAN 1 INCH.
3. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CRUSHED STONE SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1-1/2 INCHES.
4. TYPE I RIPRAP SHALL CONSIST OF STONE RANGING IN SIZE FROM 4 TO 10 INCHES.
5. TYPE II RIPRAP SHALL CONSIST OF STONE RANGING IN SIZE FROM 6 TO 8 INCHES.
6. GRANULAR BEDDING SAND SHALL BE A WELL GRADED SAND WITH NO PARTICLES LARGER THAN 1 INCH.
7. CRUSHED GRAVEL SHALL CONSIST OF UNIFORMLY MIXED CRUSHED STONE AND COARSE SAND WITH NO PARTICLES LARGER THAN 2 INCHES.

ABBREVIATIONS

Ø	DIAMETER	MIN.	MINIMUM
A, ASPH	ASPHALT	MW	MONITORING WELL
AST	ABOVE-GROUND STORAGE TANK	N	NORTHING
CB	CATCH BASIN	O.C.	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTER DIAMETER
CONC.	CONCRETE	PC	PERIMETER CHANNEL
CMP	CORRUGATED METAL PIPE	PE	POLYETHYLENE
CPP	CORRUGATED POLYETHYLENE PIPE	PROJ.	PROJECTING
CW	CHANNEL WIDTH	PT	POINT OF TANGENCY
DI	DROP INLET	PVC	POLYVINYL CHLORIDE
DMH	DRAIN MANHOLE	RCP	REINFORCED CONCRETE PIPE
E	EASTING	RMC	RIGID METAL CONDUIT
EL.	ELEVATION	SCH	SCHEDULE
ENDWL	ENDWALL	SDR	STANDARD DIMENSION RATIO
FES	FLARED END SECTION	SS	STAINLESS STEEL
GP	GAS PROBE	TP	TEST PIT
HDPE	HIGH DENSITY POLYETHYLENE	TLR	TURNKEY LANDFILL OF ROCHESTER
HDWL	HEAD WALL	TRANS	TRANSFORMER
HP	HIGH POINT, HORSEPOWER	TYP	TYPICAL
INV.	INVERT	UST	UNDER-GROUND STORAGE TANK
MAX.	MAXIMUM	W	WELL, GAS WELL
MC	METAL COVER	WD	WOOD
MH	MANHOLE		

LEGEND

EXISTING CONDITIONS

- TOWN LINE
- PROPERTY LINE
- LOT LINE
- RECYCLING INDUSTRIAL ZONING BOUNDARY
- LIMIT OF WASTE CONTAINMENT
- TLR-I LIMIT OF WASTE CONTAINMENT
- 2-FOOT ELEVATION CONTOUR
- 180 — 10-FOOT ELEVATION CONTOUR
- EDGE OF ROAD
- UNPAVED ROAD
- LIMIT OF WETLANDS
- EDGE OF WATER
- LIMIT OF 100-YEAR FLOODPLAIN
- FM — FORCE MAIN
- S — SEWER
- W — WATER MAIN
- NG — NATURAL GAS
- E — ELECTRIC
- OU — OVERHEAD UTILITIES
- X — FENCE
- TREE LINE
- GUARDRAIL
- EXISTING SWALE & FLOW DIRECTION
- DRAINAGE CULVERT
- PAVEMENT
- WETLAND AREA
- NATURAL WETLAND BUFFER AREA
- RIPRAP-LINED SWALE
- GABION-LINED SWALE
- 100 YEAR FLOOD PLAIN
- UTILITY POLE
- POST
- MISC. OBJECT
- SIGN
- LIGHT POST
- TREE/BUSH
- HC-12 — TEST PIT LOCATION AND DESIGNATION
- CATCH BASIN
- SEWER MANHOLE
- FIRE HYDRANT

PROPOSED CONDITIONS

- 182 — 2-FOOT ELEVATION CONTOUR
- 180 — 10-FOOT ELEVATION CONTOUR
- LIMIT OF DISTURBANCE
- SWALE & FLOW DIRECTION
- FILTER LOGS
- GUARDRAIL
- X — FENCE
- OE — OVERHEAD ELECTRIC
- UE — UNDERGROUND ELECTRIC
- GAS — NATURAL GAS PIPELINE
- EDGE OF ROAD
- TREE LINE
- DRAINAGE CULVERT
- C-1 — DRAINAGE CULVERT DESIGNATION
- RIPRAP
- CONCRETE
- VEGETATED STORMWATER FEATURE
- HEAVY DUTY PAVEMENT
- LIGHT DUTY PAVEMENT
- CONCRETE PAD
- ROOF AREA
- N 272000 E 1170000 — COORDINATES
- 213.50 — SPOT ELEVATION
- HP — HIGH POINT
- UTILITY POLE
- TRAFFIC FLOW ARROW
- CB-05 — CATCH BASIN AND DESIGNATION
- BOLLARD
- 14 — PARKING SPACE TOTAL

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11494 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / K. ANDERSON
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

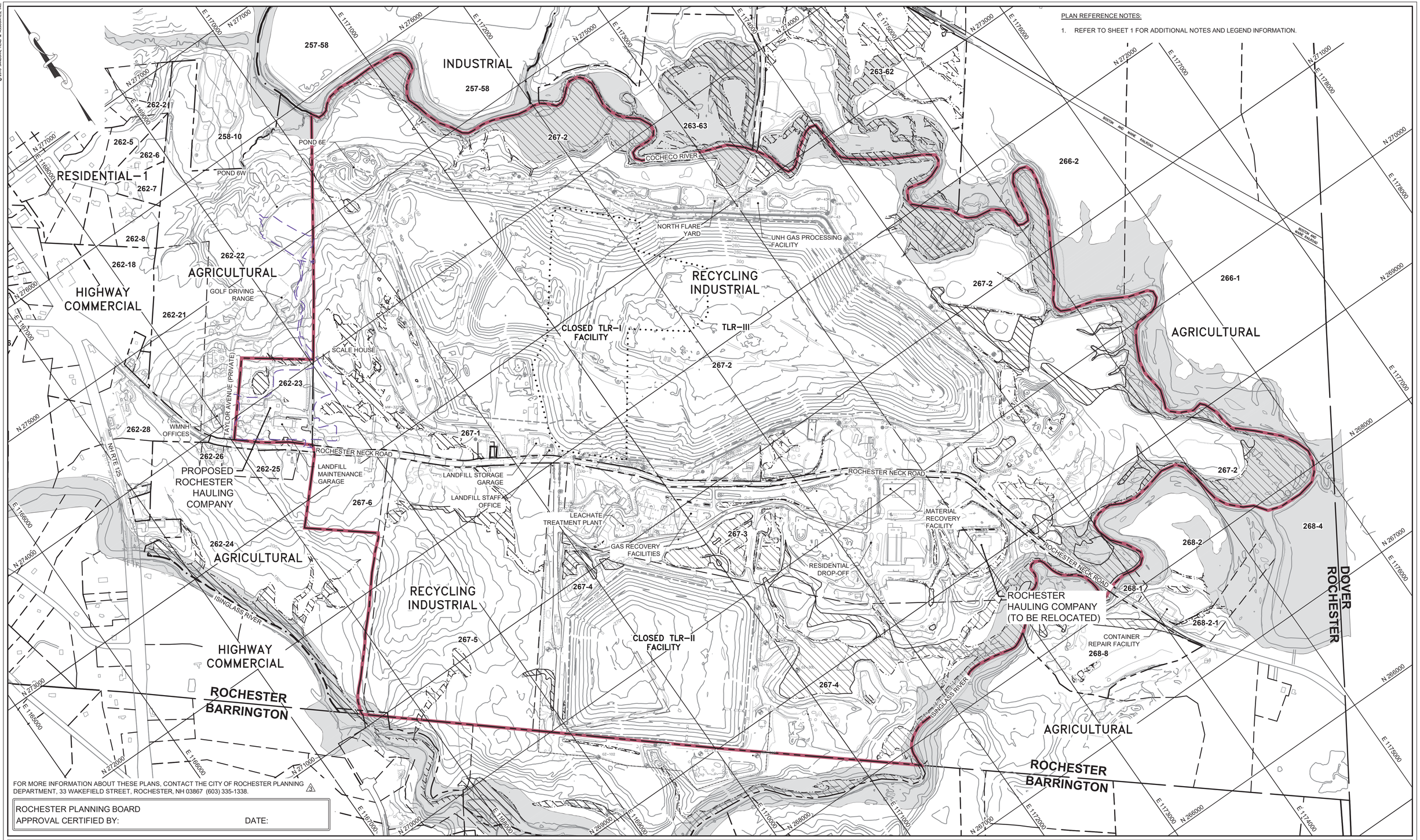
NOTES, LEGEND, AND ABBREVIATIONS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 1 OF 22

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.



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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

GRAPHICAL SCALE
400' 200' 0' 400' 800'

STATE OF NEW HAMPSHIRE
ERIC SCOTT STEINHAUSER
No. 11494
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

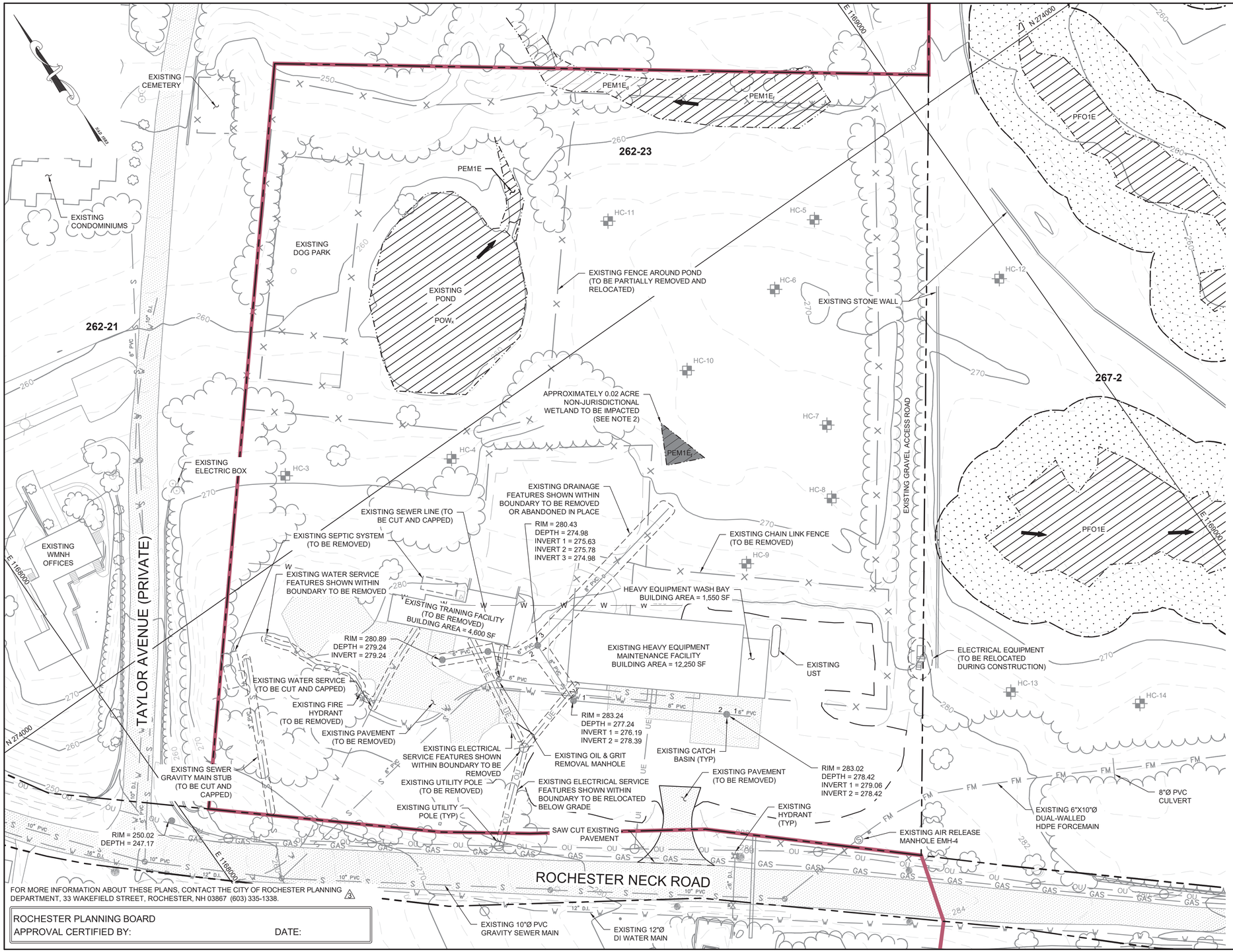
DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER: 4292.00

OVERALL SITE AND ZONING PLAN

SHEET NUMBER: 2 OF 22



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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
2. THE 0.02 ACRE WETLAND IMPACT SHOWN ON THIS PLAN WAS APPROVED BY THE CITY OF ROCHESTER CONSERVATION COMMISSION ON JANUARY 24, 2018 AS PART OF THE TLR-III SOUTH AREA STANDARD WETLAND IMPACT PERMIT APPLICATION APPROVAL.
3. THE EXISTING UTILITIES SHOWN REPRESENT A COMPILATION OF INFORMATION PROVIDED TO SANBORN HEAD AND IS NOT INCLUSIVE OF ALL ABOVE AND BELOW GRADE UTILITIES INSTALLED AT THE SITE. LOCATIONS OF UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED.
4. LOCATIONS AND ELEVATIONS OF EXISTING WATER AND SEWER LINES TO REMAIN TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN THE EVENT THAT THESE LINES NEED TO BE REPLACED DUE TO INADEQUATE COVER AND/OR UTILITY CROSSING CONFLICTS, THEY SHALL BE REPLACED, IN KIND, IN ACCORDANCE WITH THE TOWN OF ROCHESTER, NH SITE PLAN REGULATIONS.

SANBORN HEAD

GRAPHICAL SCALE
50' 25' 0' 50' 100'

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11496 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NUMBER: 4292.00

SHEET NUMBER: 3 OF 22

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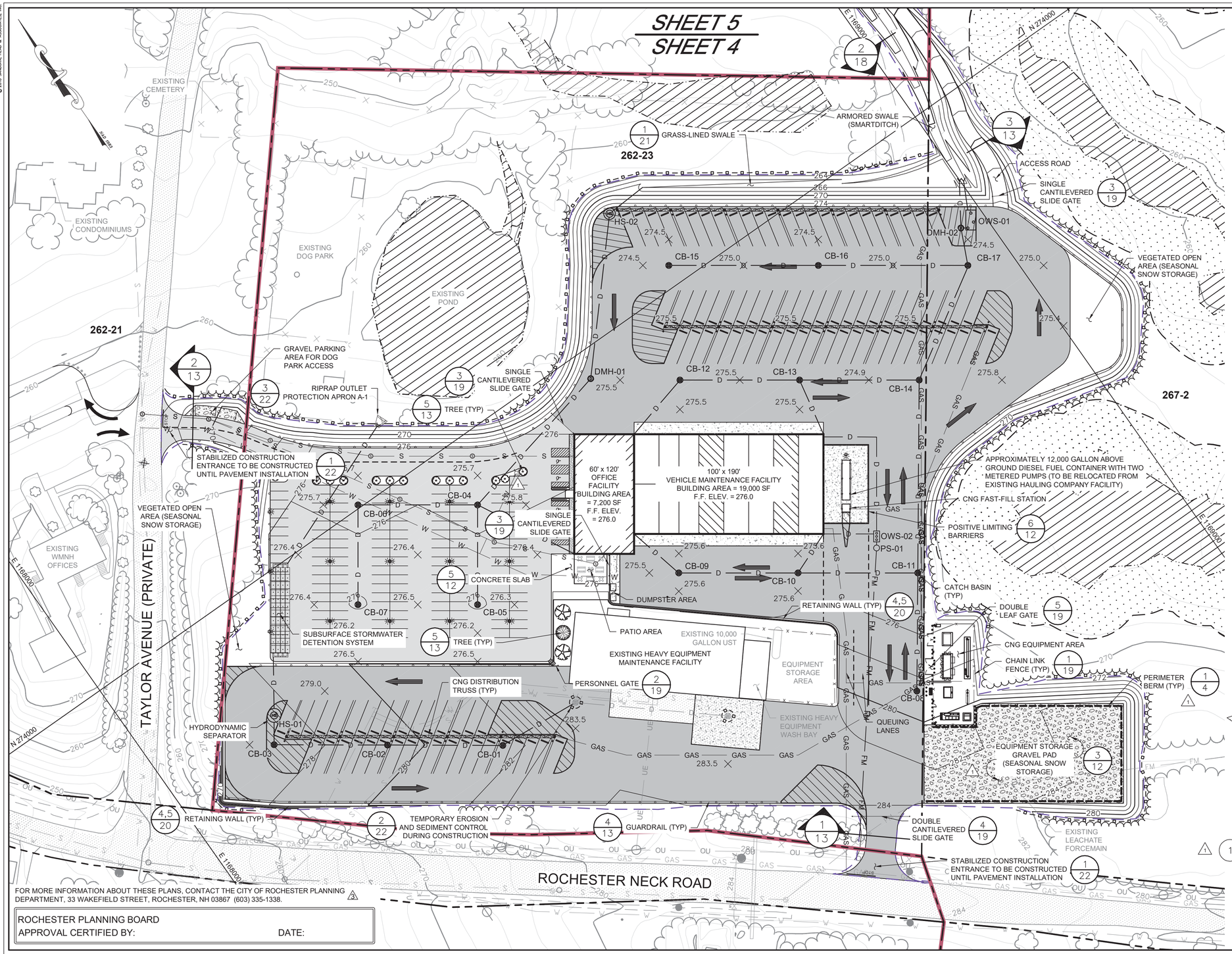
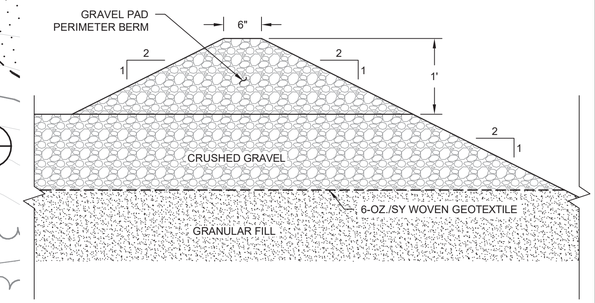


FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
2. PLAN DOES NOT REPRESENT LOCATION OF ALL UTILITIES FOR CLARITY. REFER TO SHEET 7 FOR ADDITIONAL UTILITY LOCATION INFORMATION.
3. CNG EQUIPMENT, DISTRIBUTION, AND TRUSS SYSTEM LOCATIONS PROVIDED BY T. MITCHELL ENGINEERS, INC. OF SAN LEANDRO, CALIFORNIA TO SANBORN HEAD IN DIGITAL FORMAT. REFER TO SHEETS G-1.10 AND G-1.11 FOR ADDITIONAL INFORMATION.



GRAVEL PAD PERIMETER BERM DETAIL

1 NOT TO SCALE

SANBORN HEAD

GRAPHICAL SCALE
50' 25' 0' 50' 100'

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11496 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL
1	06/28/18	RELOCATED PROPOSED FIRE HYDRANT PER CITY OF ROCHESTER	DTL
		FIRE DEPARTMENT AND MODIFIED EQUIPMENT STORAGE GRAVEL	
		PAD GRADING AND ADDED PERIMETER BERM PER CITY OF	
		ROCHESTER PLANNING BOARD APPROVAL.	

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: E. GALVIN / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROPOSED SITE DEVELOPMENT PLAN

PROJECT NUMBER: 4292.00

SHEET NUMBER: 4 OF 22

IMAGES: D:\Sbh\Header.INTF
C:\Program Files\COADD\18\Sanborn\Sanborn.INTF

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USER: mck
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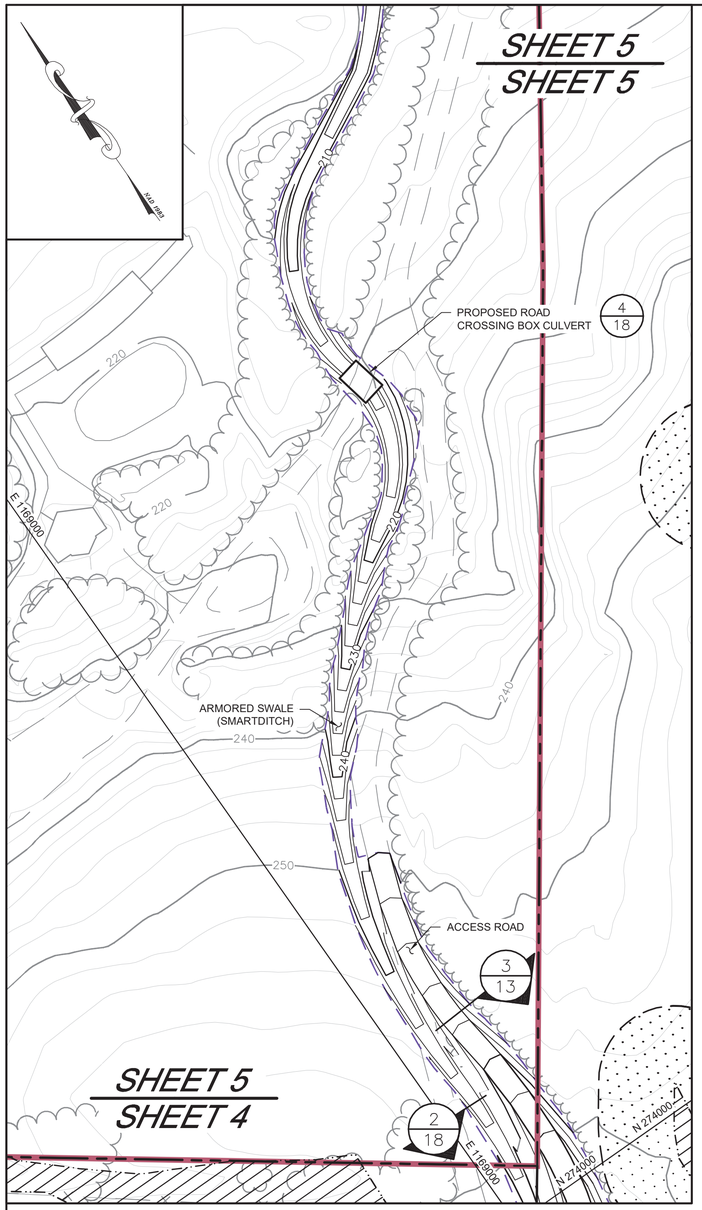
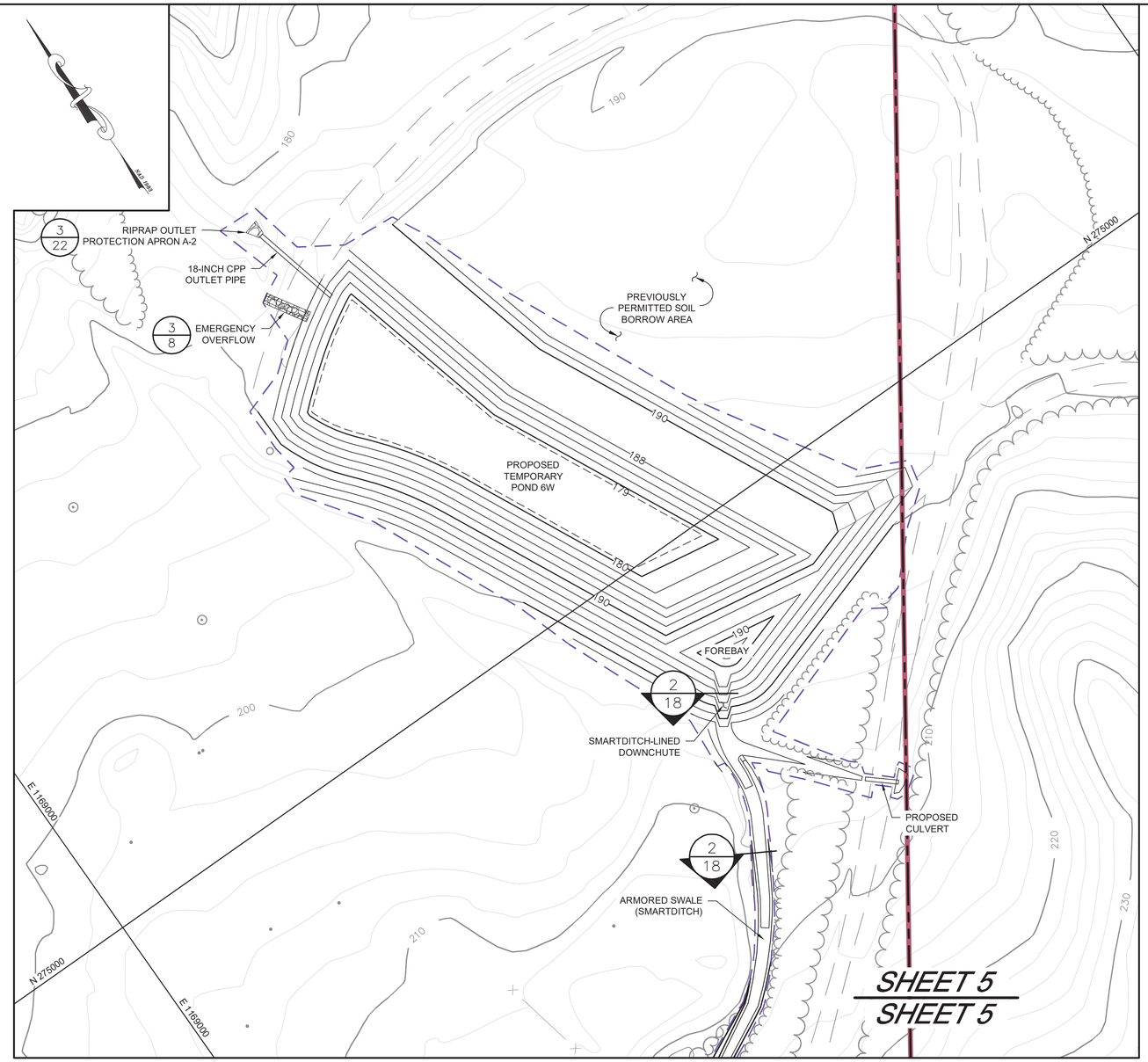


PROPOSED DEVELOPMENT PLAN



PROPOSED DEVELOPMENT PLAN

PLAN REFERENCE NOTES:

1. SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

GRAPHICAL SCALE
50' 25' 0' 50' 100'

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: E. GALVIN / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROPOSED SITE DEVELOPMENT PLAN

PROJECT NUMBER: 4292.00

SHEET NUMBER: 5 OF 22

IMAGES: D:\Sbh\Image\NHF
C:\Program Files\CADSoft\TurboCAD\PDF\CAD1.BMP

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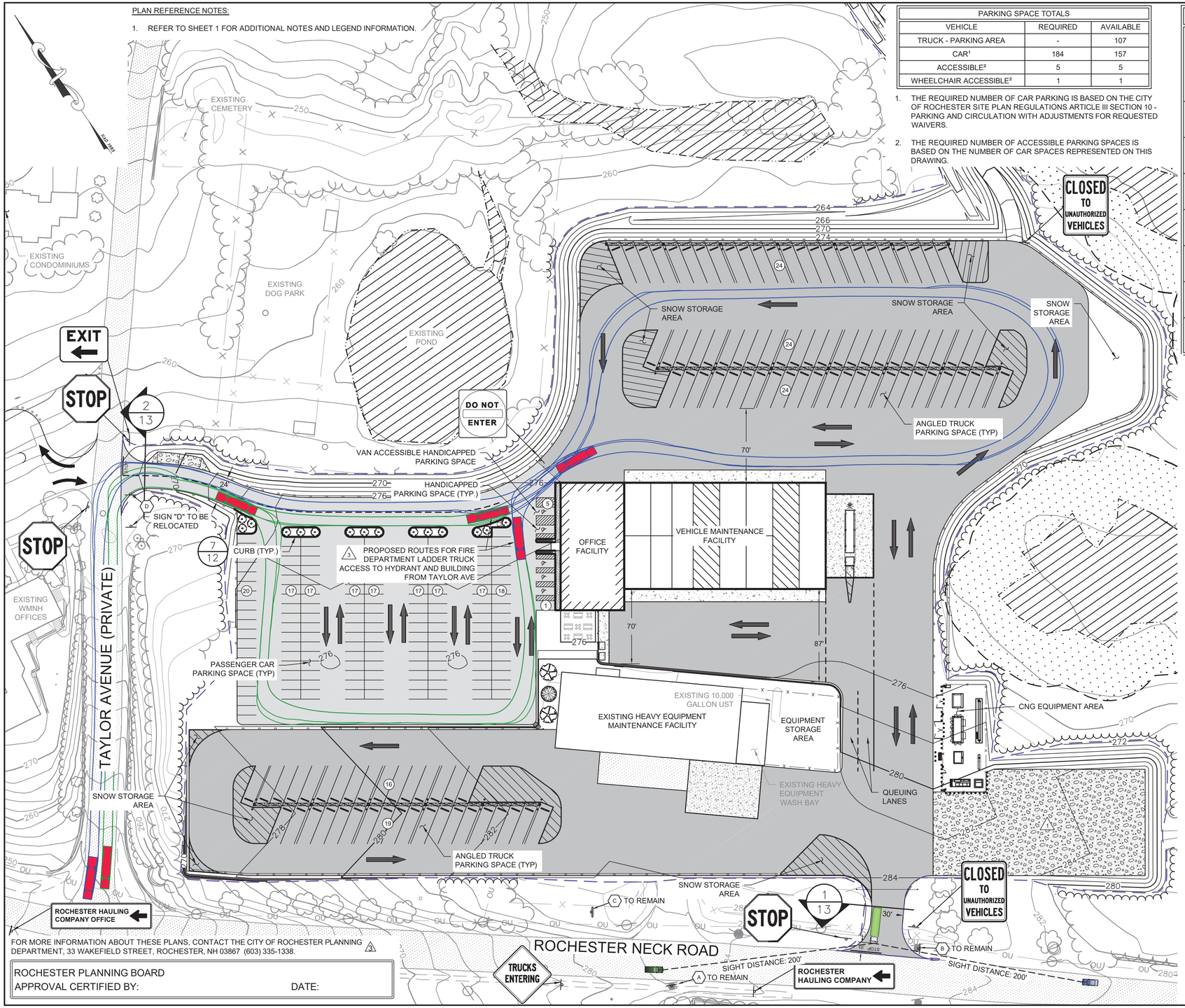
LAYOUT: 5 Proposed Development Plan
USER: mbolduc
PLOT DATE: 9-13-18 11:21 AM

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.



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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

PARKING SPACE TOTALS		
VEHICLE	REQUIRED	AVAILABLE
TRUCK - PARKING AREA	-	107
CAR[1]	184	157
ACCESSIBLE[2]	5	5
WHEELCHAIR ACCESSIBLE[2]	1	1

1. THE REQUIRED NUMBER OF CAR PARKING IS BASED ON THE CITY OF ROCHESTER SITE PLAN REGULATIONS ARTICLE III SECTION 10 - PARKING AND CIRCULATION WITH ADJUSTMENTS FOR REQUESTED WAIVERS.
2. THE REQUIRED NUMBER OF ACCESSIBLE PARKING SPACES IS BASED ON THE NUMBER OF CAR SPACES REPRESENTED ON THIS DRAWING.

NEW SIGNAGE SCHEDULE

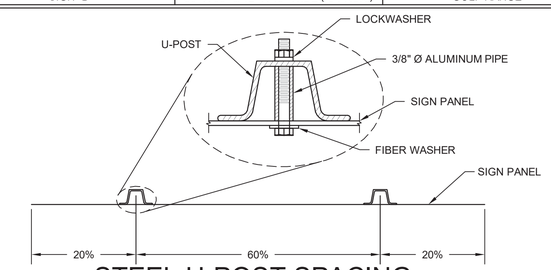
MUTCD ID NUMBER	NUMBER OF SIGNS REQUIRED	WIDTH (INCHES)	HEIGHT (INCHES)	TEXT	LETTER HEIGHT (INCHES)	ARROW LENGTH (INCHES)	VERTICAL DISTANCE BETWEEN ROAD SURAFCE AND BOTTOM OF SIGN (FT)	NUMBER OF POSTS
R1-1	3	30	30	STOP	10C	---	5**	1
R-5-1	1	30	30	DO NOT ENTER	4D	---	5	1
W14-B3	1	36	36	TRUCKS ENTERING	6D	---	5**	1
R5-10B1	2	18	24	CLOSED TO UNAUTHORIZED VEHICLES	4D	---	5	1
---	1	48	12	ROCHESTER HAULING COMPANY ←	4D	---	5	1
---	1	48	12	ROCHESTER HAULING COMPANY OFFICE ←	4D	---	5	1
---	1	24	12	EXIT ←	4D	12*	5**	1

NOTES:

* ARROW DESIGN SHALL CONFORM TO THE DETAILS DIMENSIONS PROVIDED IN THE "STANDARD HIGHWAY SIGN MANUAL," 2004 EDITION, PAGE 6-2, FOR A 2.5-INCH WIDE ARROW SHAFT.

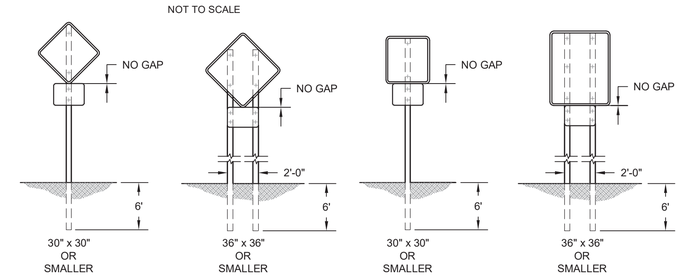
** WHEN SIGNS SHARE A SUPPORT, INSTALL SIGNS SUCH THAT THERE IS NO GAP BETWEEN SIGNS, AND THE VERTICAL DISTANCE RELATES TO THE TOP SIGN.

EXISTING SIGN INFORMATION		
SIGN DESIGNATION:	DIMENSIONS:	DESCRIPTION:
SIGN "A"	36" X 36"	"LANE ENDS MERGE LEFT"
SIGN "B"	36" X 36"	"STEEP GRADE CAUTION"
SIGN "C"	8' X 6' WIDE	"LARGE SIGN AT ENTRANCE"
SIGN "D"	36" X 36" & 12" X 48" WIDE (APPROX.)	"GOLF RANGE"



STEEL U-POST SPACING

NOT TO SCALE



SIGN VERTICAL DIMENSION DETAIL

NOT TO SCALE

SANBORN HEAD

GRAPHICAL SCALE
50' 25' 0' 50' 100'

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS AND ADDED FIRE	DTL
		TRUCK TURN CLEARANCES.	
1	06/28/18	MODIFIED EQUIPMENT STORAGE GRAVEL PAD GRADING AND ADDED	DTL
		PERIMETER BERM PER CITY OF ROCHESTER PLANNING BOARD	
		APPROVAL.	

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER: 4292.00

PROPOSED CIRCULATION, PARKING, AND SIGNAGE PLAN

SHEET NUMBER: 6 OF 22

IMAGE: D:\Sanborn\NH\Projects\4292\Graphics Files\CAD\Site Plans\4292SDD04SEV3.dwg
LAYOUT: 6 - Circulation and Signage
USER: mmcc
PLOT DATE: 9-13-18 11:02 AM
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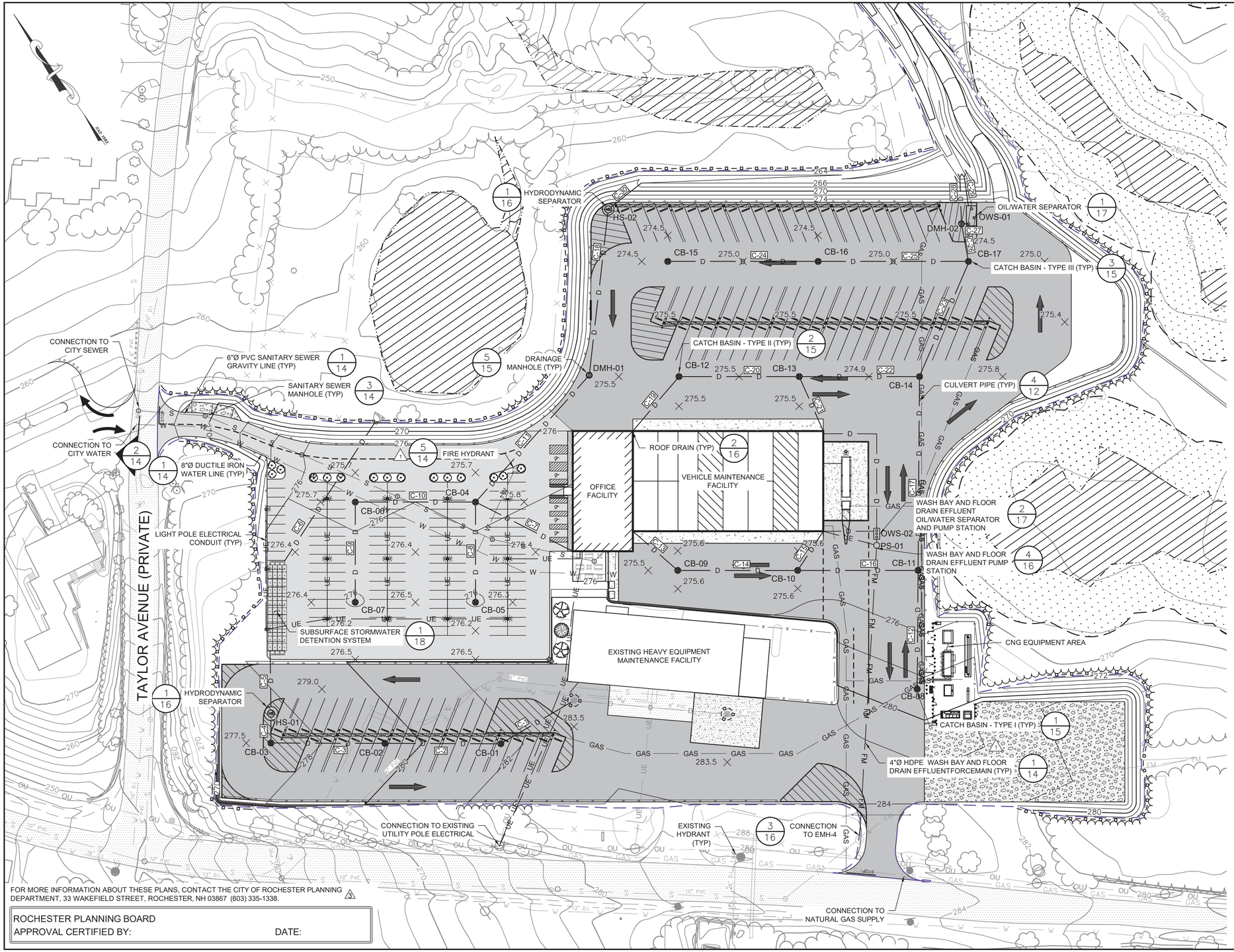


FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
2. LOCATIONS OF UTILITIES SHOWN ARE CONCEPTUAL. DESIGNING LOCATIONS FOR UTILITIES AND COORDINATING UTILITY CROSSINGS ARE THE RESPONSIBILITY OF THE DESIGN BUILD ENGINEER.
2. DISTRIBUTION, SIGNAL, AND ELECTRICAL UTILITIES FOR CNG EQUIPMENT TO BE DESIGNED BY CNG DESIGNER.

SANBORN HEAD

GRAPHICAL SCALE
50' 25' 0' 50' 100'

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11496 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL
1	06/28/18	RELOCATED PROPOSED FIRE HYDRANT PER CITY OF ROCHESTER	DTL
		FIRE DEPARTMENT AND MODIFIED EQUIPMENT STORAGE GRAVEL	
		PAD GRADING AND ADDED PERIMETER BERM PER CITY OF	
		ROCHESTER PLANNING BOARD APPROVAL.	

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

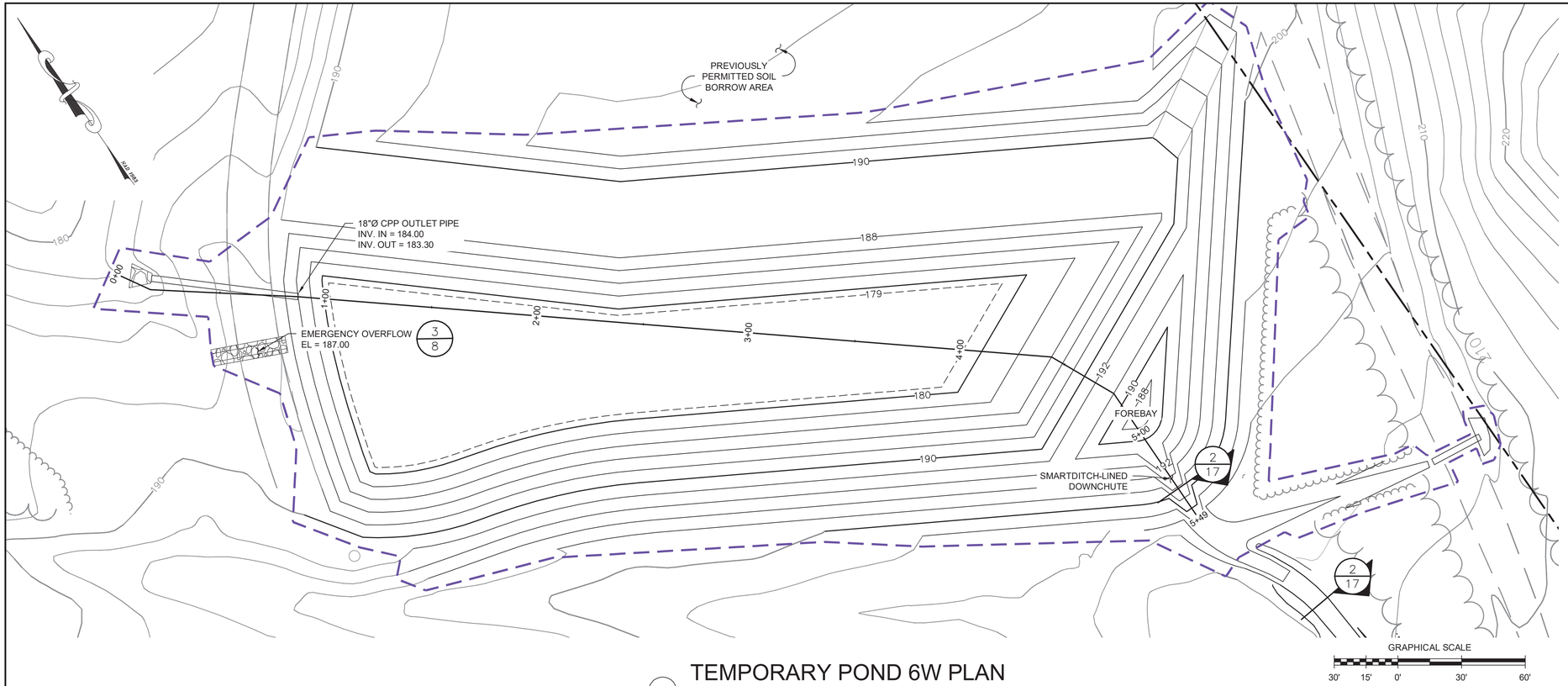
PROJECT NUMBER: 4292.00

PROPOSED UTILITIES PLAN

SHEET NUMBER: 7 OF 22

IMAGES: D:\Sbh\Header.NHW
C:\Program Files\Autodesk\Navisworks\Cut Stamp

FILE: P:\4292\4292.00\Graphics Files\CAD\Site Plans\4292000TREEV3.dwg
LAYOUT: 07 Utilities Plan
USER: mcarter
PLOT DATE: 8-13-18 10:23 AM



GRAPHICAL SCALE

30' 15' 0' 30' 60'

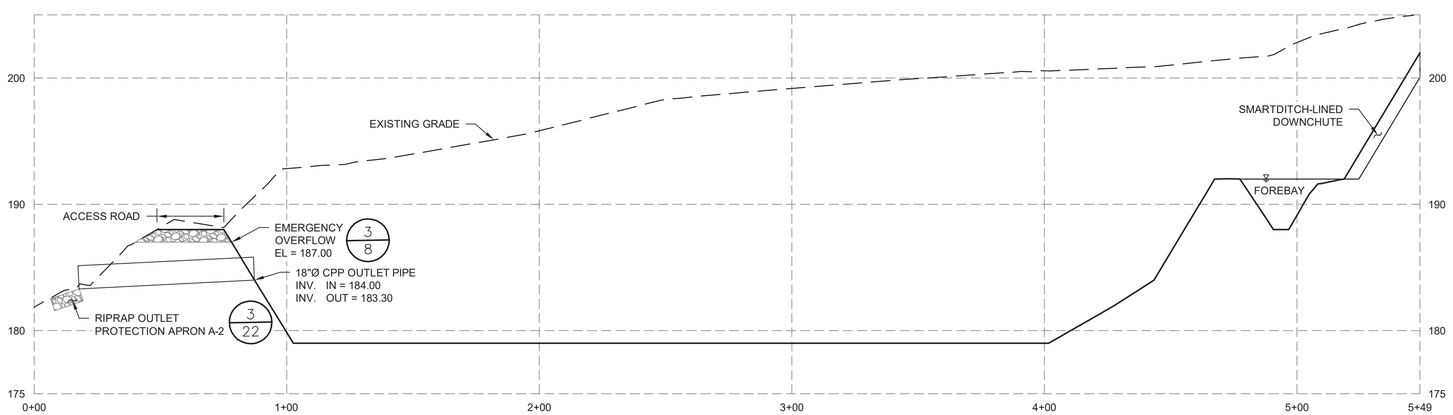
TEMPORARY POND 6W PLAN

1

SCALE AS NOTED

PLAN REFERENCE NOTES:

1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.



TEMPORARY POND 6W PROFILE

2

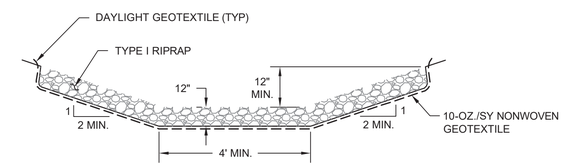
SCALE AS NOTED

VERTICAL SCALE

6.0' 3.0' 0' 6.0' 12.0'

30' 15' 0' 30' 60'

HORIZONTAL SCALE



EMERGENCY OVERFLOW

3

NOT TO SCALE

NOTE:

1. IN ACCORDANCE WITH THE PREVIOUSLY PERMITTED BORROW AREA 6W, TEMPORARY POND 6W WILL ALSO INFILTRATE STORMWATER DETAINED BELOW THE OUTLET PIPE ELEVATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE
ERIC SCOTT STEINHAUSER
No. 11496
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER: 4292.00

POND 6W PLAN AND PLAN AND PROFILE

SHEET NUMBER: 8 OF 22

IMAGES: D:\Sketchup\Model
C:\Program Files\Google\GoogleEarth\cache\RRCO\7.tif

FILE: P:\4292\4292.00\Graphics Files\CAD\Site Plans\8200\0248\8200-1.dwg
LAYOUT: Pond 6W Plan and Profile
USER: dlong
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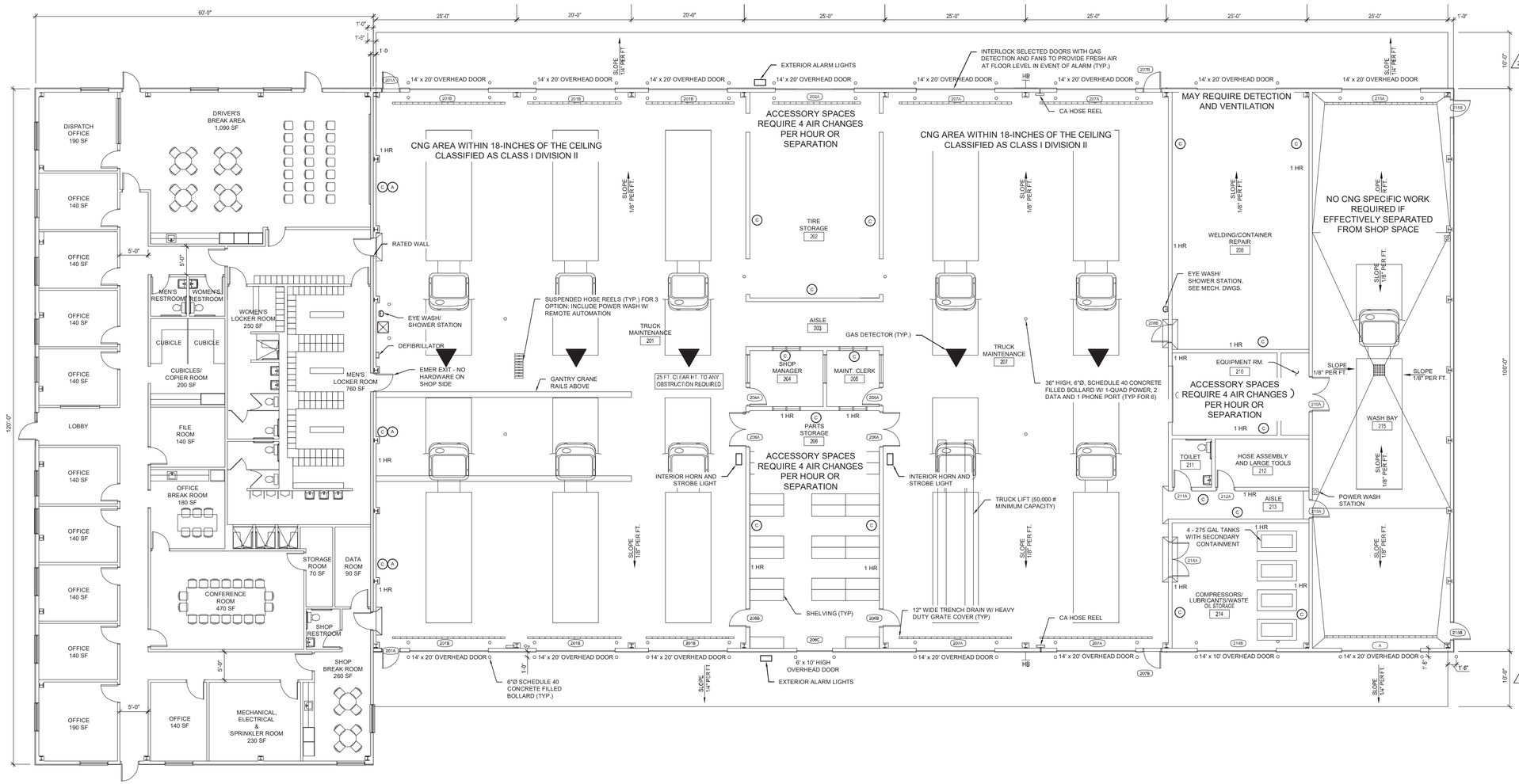

1 FLOOR PLAN

NOT TO SCALE

REFERENCE NOTES:

1. VEHICLE MAINTENANCE FACILITY FLOOR PLAN FROM THE WASTE MANAGEMENT HAULING FACILITY GUIDANCE DOCUMENT DATED DECEMBER 21, 2010 FOR A LARGE HAULING FACILITY.
2. OFFICE FLOOR PLAN DESIGNED BY H.L. TURNER GROUP INC. OF CONCORD, NEW HAMPSHIRE AND PROVIDED TO SANBORN HEAD IN DIGITAL FORMAT.
3. GENERAL BUILDING INTERIOR SHOWN. ACTUAL INTERIOR DESIGN TO BE DEVELOPED BY AN ARCHITECT DURING THE DESIGN BUILD PROCESS.
4. PROVIDE ONE (1) HR FIRE SEPARATION BETWEEN OFFICE AND SHOP AREAS.
5. △2 DUE TO OWNERS INTEREST IN SUSTAINABILITY (LEED CERTIFICATION), DESIGN PROFESSIONAL TO PROVIDE ADDITIONAL FEE AMOUNT TO INCORPORATE SUSTAINABLE DESIGN FEATURES FOR THE BUILDING AND SITE
6. CNG SAFETY AND DETECTION INFORMATION PREPARED BY T. MITCHELL ENGINEERS, INC. OF SAN LEANDRO, CALIFORNIA AND PROVIDED TO SANBORN HEAD.

PARTITION TYPES:

(A) ONE LAYER 5/8" GYPSUM BOARD EACH SIDE OF 3 5/8", 25 GA, METAL STUDS AT 16" O.C. EXTEND GYPSUM BOARD TO DECK ABOVE. MINIMUM SOUND TRANSMISSION CLASS (STC) RATING TO BE 50. PROVIDE 5/8" CEMENT BOARD WITH 1/8" PLASTER SKIM COAT AT WET AREAS.

(B) SAME AS TYPE 'A' EXCEPT NO STC RATING REQUIRED. TERMINATE GYPSUM BOARD AT 6" ABOVE FINISHED CEILING.

(C) 8" CMU TO 72" AFF WITH TYPE 'A' PARTITION ABOVE EXCEPT WITH 6", 20 GA, METAL STUDS AND NO STC RATING REQUIRED. PROVIDE 5/8" CEMENT BOARD WITH 1/8" PLASTER SKIM COAT AT WET AREAS.

CNG NOTES (FROM T. MICHELL ENGINEERS, INC):

1. SHOP HEAT MUST HAVE NO OPEN FLAME. EXPOSED SURFACE TEMPERATURES SHALL NOT EXCEED 750°F.
2. EXHAUST FANS REQUIRED NEAR HIGHEST POINT OF CEILING SIZED FOR A MINIMUM OF 5 AIR CHANGES PER HOUR. EXHAUST FANS WILL BE CONTROLLED BY DETECTION SYSTEM WITH MANUAL ON FOR SUPPLEMENTAL SUMMER VENTILATION.
3. REQUIRED IMPROVEMENTS ARE IN ADDITION TO THOSE TYPICALLY REQUIRED FOR LIQUID FUELS.
4. OFFICE AREA HVAC MUST BE COMPLETELY SEPARATE FROM SHOP HVAC AND CONFIGURED TO HAVE SLIGHT POSITIVE PRESSURE RELATIVE TO THE SHOP.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. △3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL
2	07/09/18	MODIFIED CONCRETE APRON DIMENSIONS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

BUILDING FLOOR PLAN

PROJECT NUMBER: 4292.00

SHEET NUMBER: 9 OF 22

IMAGES: D:\Sbh\Hauler\INT\F
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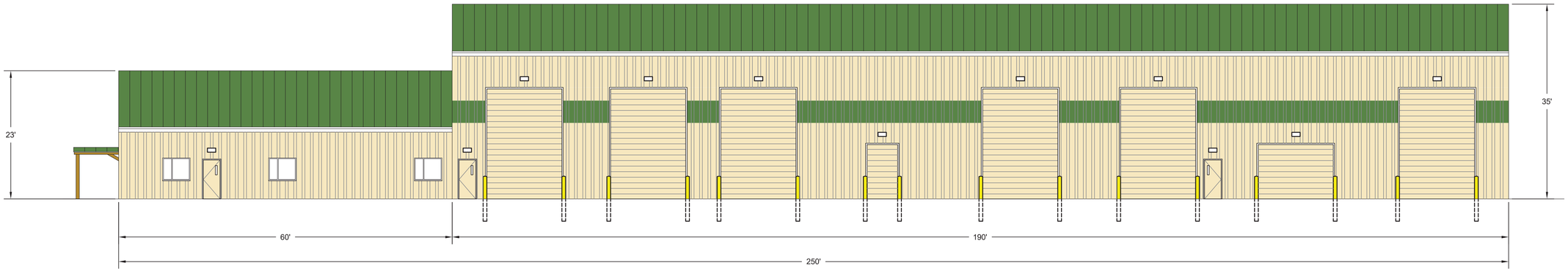
FILE: P:\4200s\4292.00\Graphics Files\CAD\Site Plan\4292002004REV3.dwg
LAYOUT: 1-FLOOR
USER: dlong
PLOT DATE: 9/13/18 1:26 AM

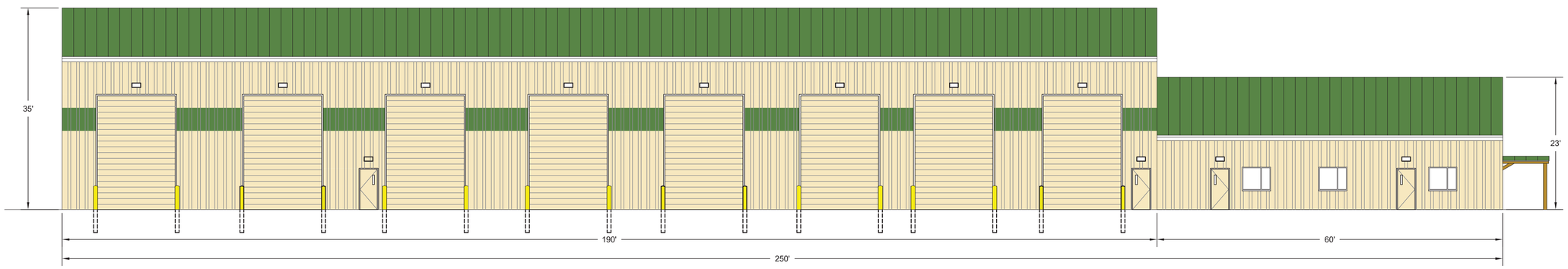
REFERENCE NOTES:

1. BUILDING ELEVATIONS DESIGNED BY THE H.L. TURNER GROUP INC. OF CONCORD, NEW HAMPSHIRE AND PROVIDED TO SANBORN HEAD IN DIGITAL FORMAT ON MARCH 30, 2018.
2. GENERAL BUILDING ELEVATIONS SHOWN. ACTUAL EXTERIOR DESIGN TO BE DEVELOPED BY AN ARCHITECT DURING THE DESIGN BUILD PROCESS.



1 SOUTH WALL BUILDING ELEVATION

NOT TO SCALE



2 NORTH WALL BUILDING ELEVATION

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11496 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

BUILDING ELEVATIONS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 10 OF 22

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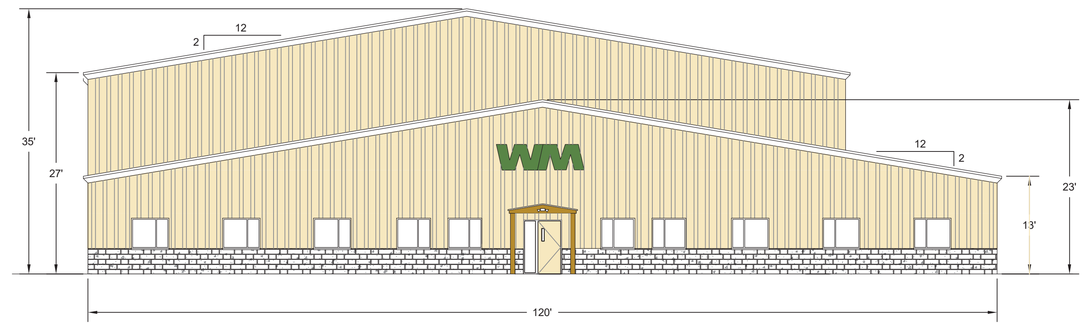
LAYOUT: 10 Elevations
USER: dtoss
PLOT DATE: 8-13-18 11:24 AM

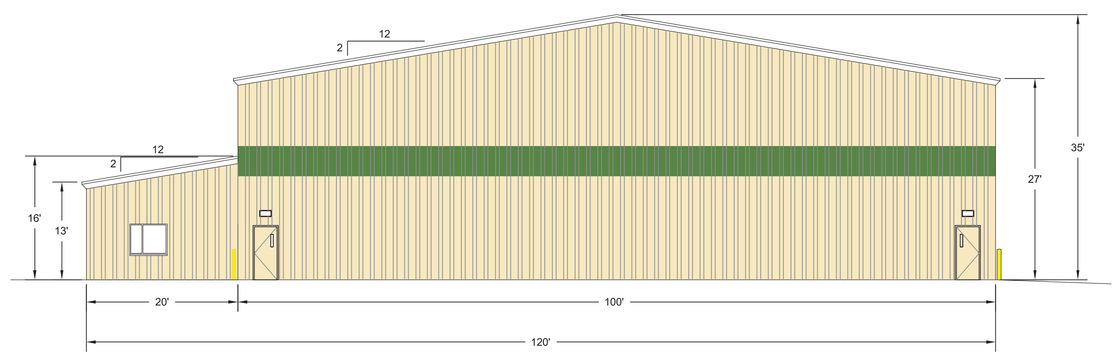
REFERENCE NOTES:

1. BUILDING ELEVATIONS DESIGNED BY THE H.L. TURNER GROUP INC. OF CONCORD, NEW HAMPSHIRE AND PROVIDED TO SANBORN HEAD IN DIGITAL FORMAT ON MARCH 30, 2018.
2. GENERAL BUILDING ELEVATIONS SHOWN. ACTUAL EXTERIOR DESIGN TO BE DEVELOPED BY AN ARCHITECT DURING THE DESIGN BUILD PROCESS.



1 WEST WALL BUILDING ELEVATION

NOT TO SCALE



2 EAST WALL BUILDING ELEVATION

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE
ERIC SCOTT STEINHAUSER
No. 11969
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

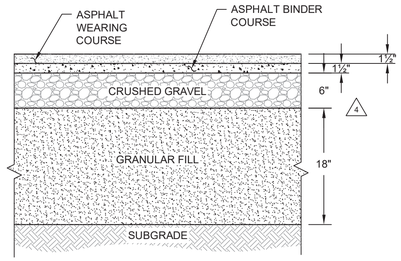
DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

BUILDING ELEVATIONS

PROJECT NUMBER: 4292.00

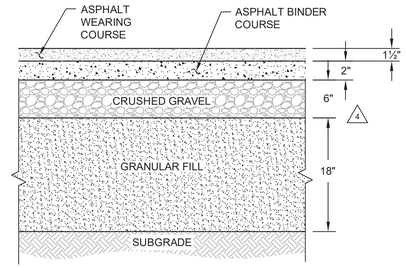
SHEET NUMBER: 11 OF 22



LIGHT DUTY PAVEMENT SECTION

1

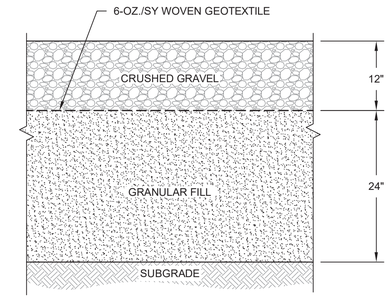
NOT TO SCALE



HEAVY DUTY PAVEMENT SECTION

2

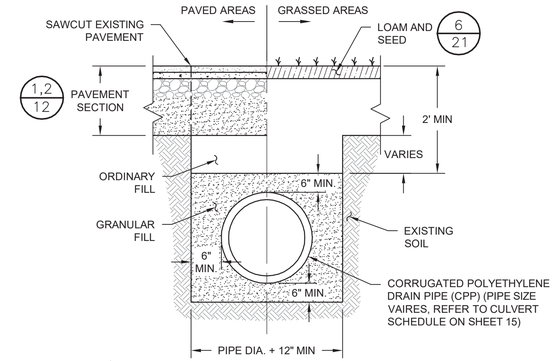
NOT TO SCALE



TYPICAL CRUSHED GRAVEL SECTION

3

NOT TO SCALE



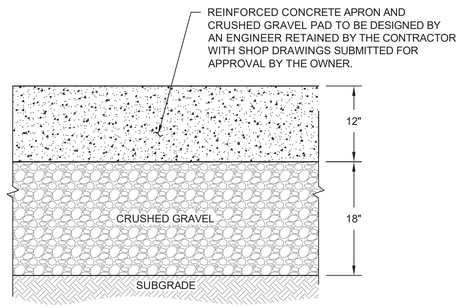
NOTE:

1. 12-INCHES OF GRANULAR FILL PIPE BEDDING SHALL BE PROVIDED IN AREAS WHERE LEDGE OR UNSUITABLE SOILS ARE ENCOUNTERED.

TYPICAL CULVERT PIPE SECTION

4

NOT TO SCALE



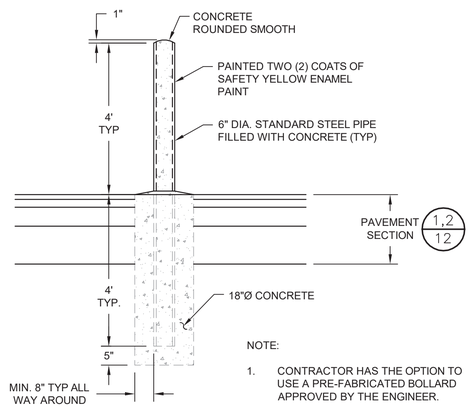
NOTE:

1. APPLY CONCRETE ARMOR SEALANT AS SPECIFIED BY OWNER.

CONCRETE APRON/PAD DETAIL

5

NOT TO SCALE



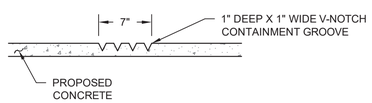
NOTE:

1. CONTRACTOR HAS THE OPTION TO USE A PRE-FABRICATED BOLLARD APPROVED BY THE ENGINEER.

BOLLARD DETAIL

8

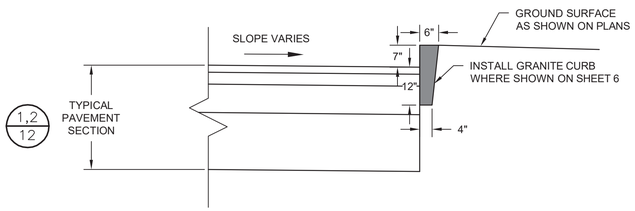
NOT TO SCALE



POSITIVE LIMITING BARRIER DETAIL

6

NOT TO SCALE



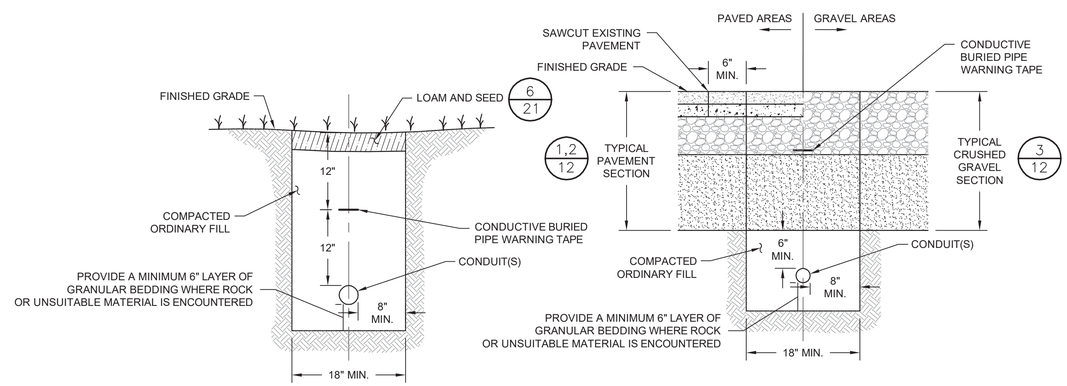
NOTE:

1. GRANITE CURB TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ROCHESTER, NEW HAMPSHIRE, SUBDIVISION REGULATIONS.

GRANITE CURB DETAIL

1 7

NOT TO SCALE



WITHIN UNPAVED AREAS

WITHIN PAVED AREAS

TYPICAL ELECTRIC CONDUIT TRENCH SECTIONS

9

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11495 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
4	09/13/18	REVISED PAVEMENT SUBBASE SECTION	MNH
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL
1	06/28/18	MODIFIED GRANITE CURB DETAIL PER CITY OF ROCHESTER	DTL
		PLANNING BOARD APPROVAL.	

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 12 OF 22

IMAGES: P:\4292\4292.00\Graphics Files\CAD\Site Plan\RevisedAfterBy Overhead Light.JPG
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USER: mrock
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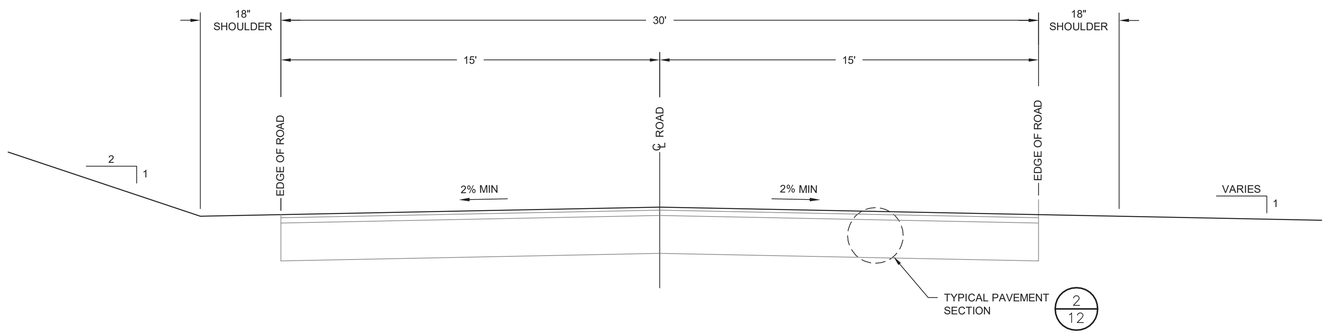
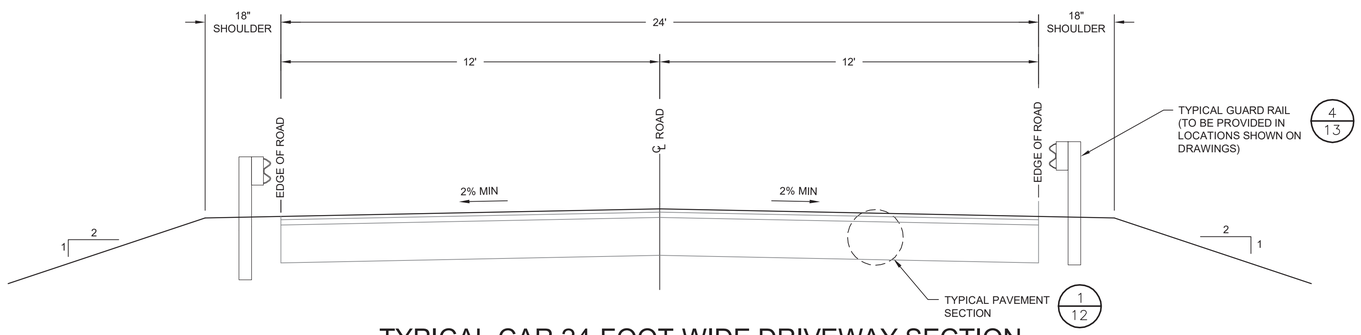


TYPICAL 30-FOOT WIDE TRUCK DRIVEWAY SECTION

1

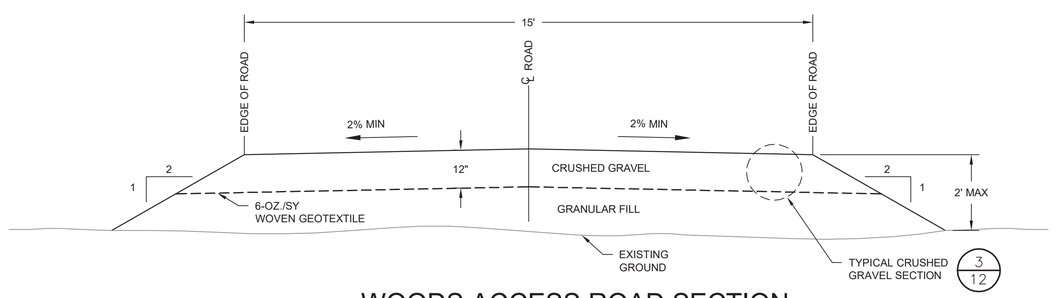
NOT TO SCALE



TYPICAL CAR 24-FOOT WIDE DRIVEWAY SECTION

2

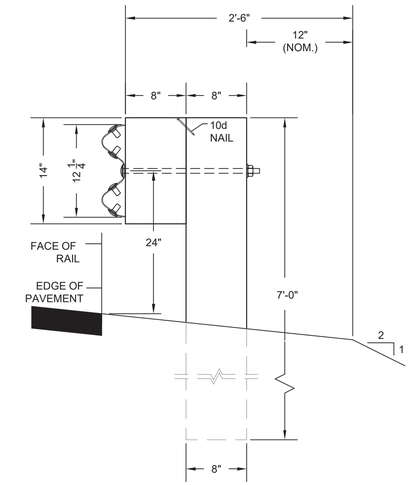
NOT TO SCALE



WOODS ACCESS ROAD SECTION

3

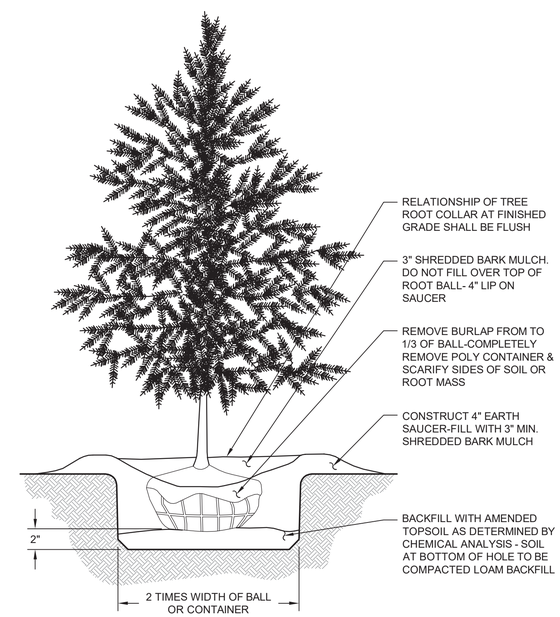
NOT TO SCALE



TYPICAL GUARDRAIL DETAIL

4

NOT TO SCALE



NOTES:

1. MINIMUM TREE HEIGHT FROM GROUND SURFACE OF 4-FEET.

2. TREE SPECIES TO BE SELECTED AS PART OF THE LANDSCAPE DESIGN AND SHALL BE ABLE TO TOLERATE EXPECTED CONDITIONS.

TYPICAL TREE PLANTING DETAIL

5

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 13 OF 22

IMAGES: P:\4200\4292.00\Graphics Files\CAD\Site Plan\RoAdMfg Overhead Light.JPG
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C:\Users\ericsteinhauser\Desktop\Cedar.JPG

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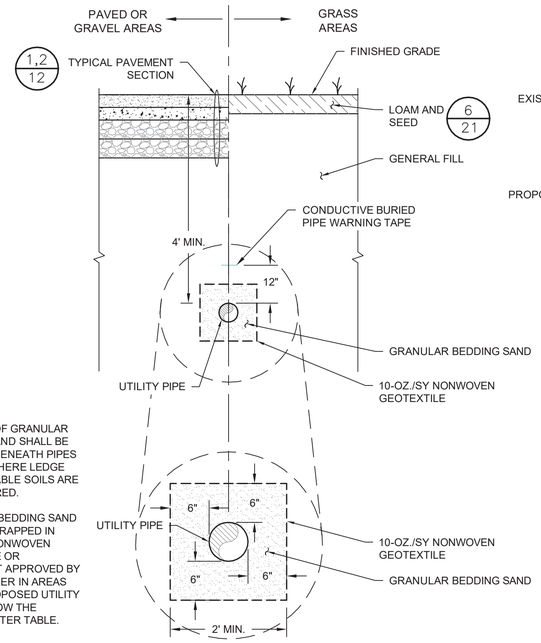
LAYOUT: 13 DETAILS
USER: tmock
PLOT DATE: 8-13-18 11:06 AM



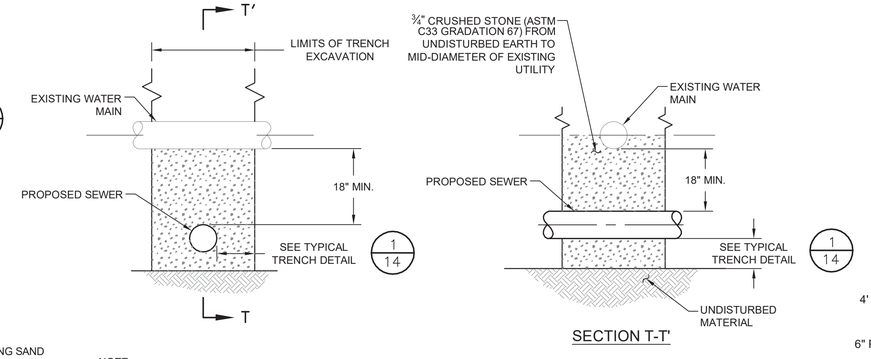
NOTES:

1. 12 INCHES OF GRANULAR BEDDING SAND SHALL BE PROVIDED BENEATH PIPES IN AREAS WHERE LEDGE OR UNSUITABLE SOILS ARE ENCOUNTERED.
2. GRANULAR BEDDING SAND SHALL BE WRAPPED IN 10-OZ./SY NONWOVEN GEOTEXTILE OR EQUIVALENT APPROVED BY THE ENGINEER IN AREAS WHERE PROPOSED UTILITY PIPE IS BELOW THE GROUNDWATER TABLE.

TYPICAL UTILITY TRENCHING DETAIL

1

NOT TO SCALE



SECTION T-T'

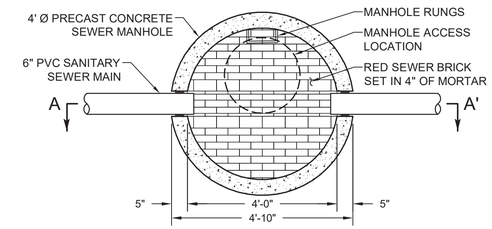
NOTE:

1. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER PIPES. WHENEVER SANITARY SEWER GRAVITY MAINS OR FORCE MAINS MUST CROSS WATER MAINS, THE SEWER OR LEACHATE FORCE MAIN SHALL BE INSTALLED BELOW THE WATER MAIN WITH A MINIMUM VERTICAL SEPARATION DISTANCE OF 18 INCHES.

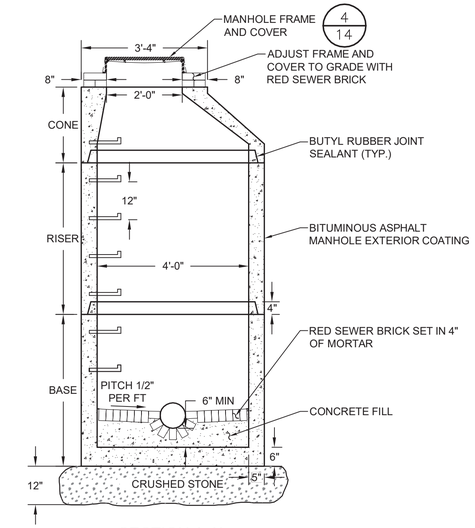
WATER MAIN/SEWER CROSSING DETAIL

2

NOT TO SCALE



PLAN

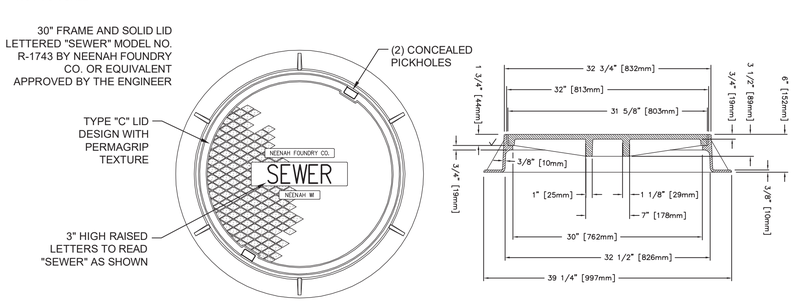


SECTION A-A'

TYPICAL SANITARY SEWER MANHOLE DETAIL

3

NOT TO SCALE

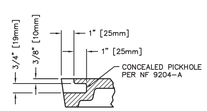


PLAN

ELEVATION

NOTES:

1. SEWER MANHOLE FRAME AND SOLID LID SHALL CONFORM TO CITY OF ROCHESTER D.P.W. SPECIFICATIONS AND STANDARDS.
2. 32" FRAME AND SOLID LID LETTERED "SEWER" MODEL NO. 62113 32D BY E.J. PRESCOTT, INC.
3. ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
4. COMPONENT NO'S: FRAME 1743-2000; LID 1743-0002
5. MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
6. FINISH: NO PAINT
7. WEIGHT 137 LBS; LID 215 LBS.



CONCEALED PICKHOLE

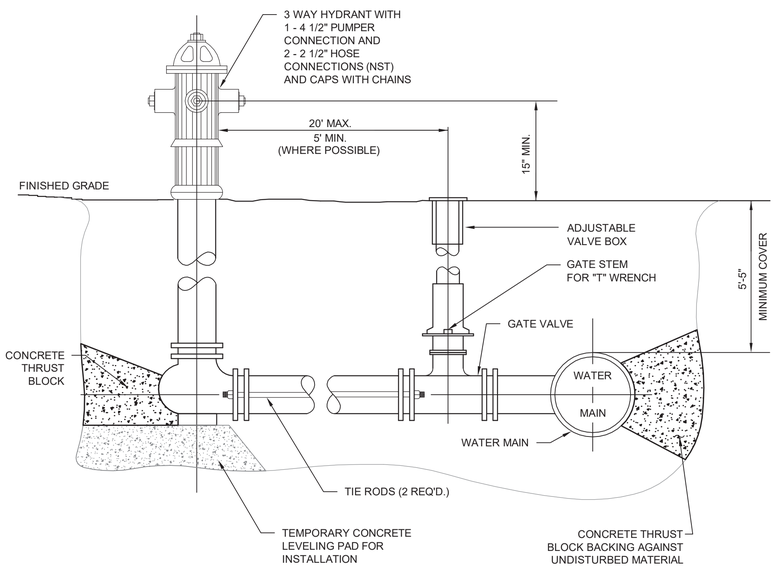
TYPICAL SEWER MANHOLE FRAME AND COVER DETAIL

4

NOT TO SCALE

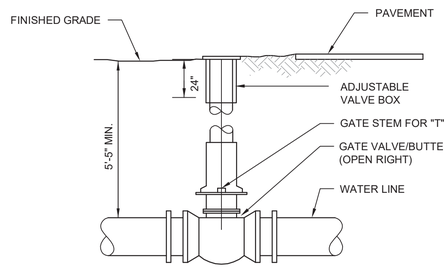
FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

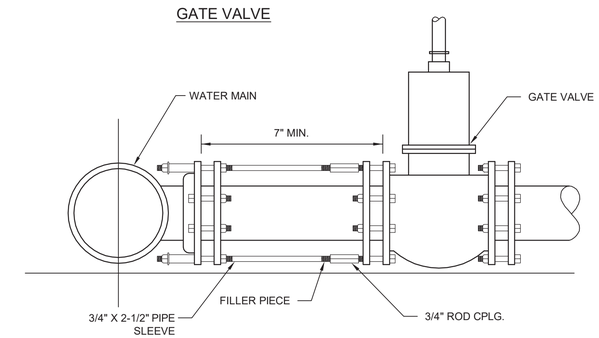


NOTES:

1. HYDRANT SHALL BE A MINIMUM OF 5'-0" FROM EDGE OF PAVEMENT.
2. ALL HYDRANTS SHALL HAVE RETAINER GLANDS.
3. CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK OR OBSTRUCT HYDRANT DRAIN.
4. HYDRANTS AND GATE VALVES SHALL CONFORM TO THE CITY OF ROCHESTER D.P.W. SPECIFICATIONS AND STANDARDS.



GATE VALVE



TIE ROD

NOTES:

1. MEGA-LUG RETAINER GLANDS IN ACCORDANCE WITH CITY OF ROCHESTER D.P.W. SPECIFICATIONS SHALL BE USED ON ALL GATE VALVES.
2. ALL GATE VALVES AND FITTINGS SHALL CONFORM TO CITY OF ROCHESTER D.P.W. SPECS. AND STANDARDS.

FIRE HYDRANT DETAILS

5

NOT TO SCALE

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11494 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

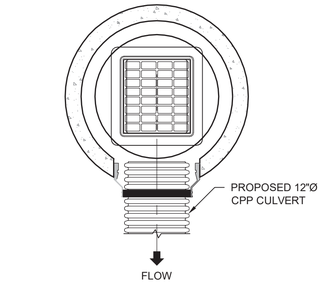
DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

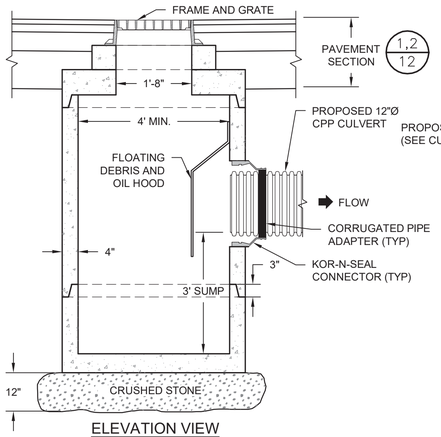
WATER SUPPLY AND SEWER DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 14 OF 22



PLAN VIEW

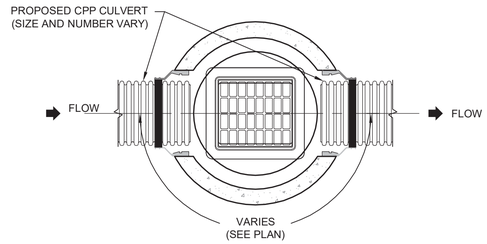


ELEVATION VIEW

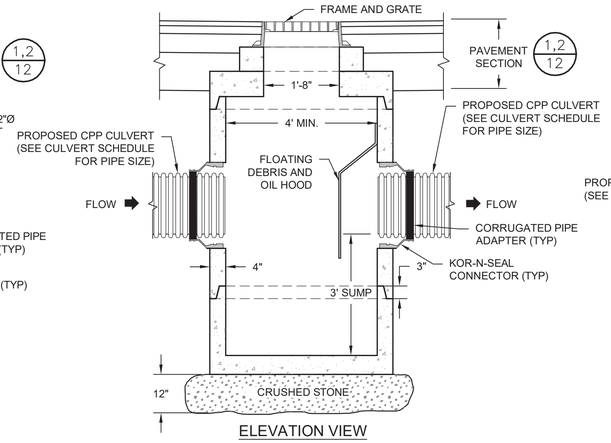
TYPICAL CATCH BASIN - TYPE I

1 1

NOT TO SCALE



PLAN VIEW

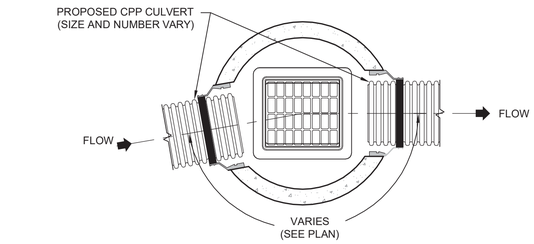


ELEVATION VIEW

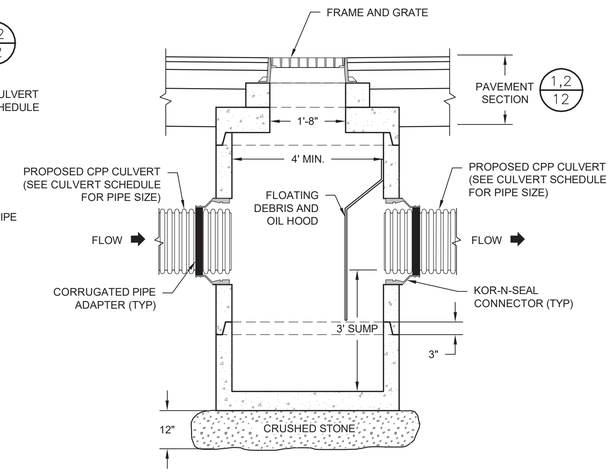
TYPICAL CATCH BASIN - TYPE II

1 2

NOT TO SCALE



PLAN VIEW

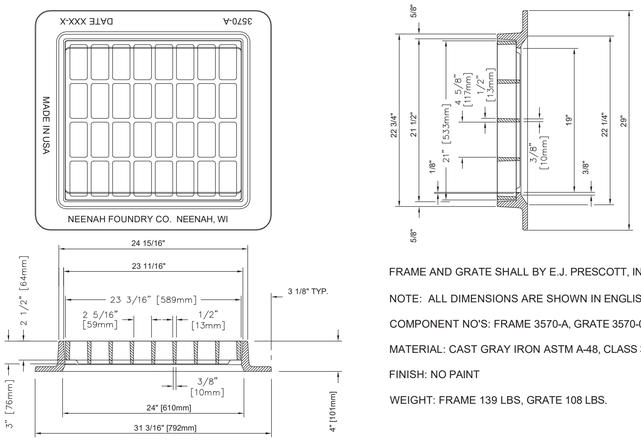


ELEVATION VIEW

TYPICAL CATCH BASIN - TYPE III

3

NOT TO SCALE



FRAME AND GRATE SHALL BY E.J. PRESCOTT, INC.

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH AND [METRIC].

COMPONENT NO'S: FRAME 3570-A, GRATE 3570-0002

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B

FINISH: NO PAINT

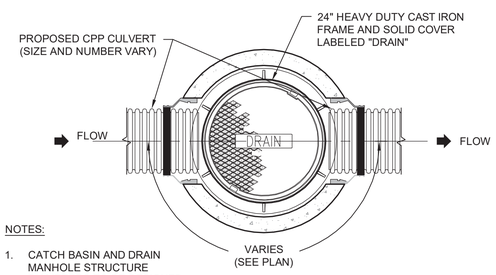
WEIGHT: FRAME 139 LBS, GRATE 108 LBS.

CATCH BASIN - FRAME AND GRATE DETAIL

4

NOT TO SCALE

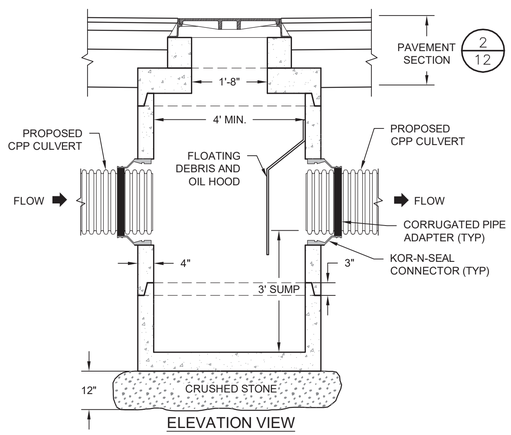
CULVERT AND DRAINAGE STRUCTURE SCHEDULE										
CULVERT DESIGNATION	STRUCTURE UPSTEAM	PROPOSED RIM	INVERT UPSTREAM	STRUCTURE DOWNSTREAM	PROPOSED RIM	INVERT DOWNSTREAM	MATERIAL	DIAMETER (IN)	LENGTH (FT)	SLOPE (%)
C-1	EXISTING CB	283.24	277.52	CB-01	281.55	276.73	CPP	12	79	0.010
C-2	CB-01	281.55	276.63	CB-02	279.25	275.22	CPP	12	110	0.013
C-3	CB-02	279.25	274.96	CB-03	276.98	272.69	CPP	15	108	0.021
C-4	CB-03	276.98	271.90	HS-01	277.53	271.71	CPP	24	19	0.010
C-5	HS-01	277.53	271.63	STORAGE	-	271.14	CPP	24	49	0.010
C-6	STORAGE	-	270.82	POND	-	266.00	CPP	18	164	0.029
C-7	ROOF DRAIN	-	273.19	CB-04	275.41	272.14	CPP	6	105	0.010
C-8	CB-05	275.91	272.06	CB-04	275.41	271.12	CPP	12	94	0.010
C-9	CB-07	275.91	272.06	CB-06	275.41	271.12	CPP	12	94	0.010
C-10	CB-06	275.41	271.02	CB-04	275.41	269.88	CPP	15	114	0.010
C-11	CB-04	275.41	269.78	DMH-01	275.81	268.14	CPP	18	164	0.010
C-12	CB-08	278.76	274.74	CB-11	275.22	270.50	CPP	12	128	0.033
C-13	ROOF DRAIN	-	273.03	CB-09	275.22	272.27	CPP	6	55	0.014
C-14	CB-09	275.22	271.20	CB-10	275.22	270.03	CPP	12	117	0.010
C-15	ROOF DRAIN	-	273.03	CB-10	275.22	272.27	CPP	6	43	0.018
C-16	CB-10	275.22	269.93	CB-11	275.22	268.76	CPP	18	117	0.010
C-17	CB-11	275.22	268.66	CB-14	274.97	266.93	CPP	24	173	0.010
C-18	DMH-01	275.81	268.04	HS-02	275.03	266.44	CPP	18	160	0.010
C-19	ROOF DRAIN	-	273.03	CB-12	274.91	271.96	CPP	6	67	0.016
C-20	CB-12	274.91	270.89	CB-13	274.91	269.75	CPP	12	114	0.010
C-21	ROOF DRAIN	-	273.03	CB-13	274.91	271.96	CPP	6	55	0.019
C-22	CB-13	274.91	269.65	CB-14	274.97	268.51	CPP	18	114	0.010
C-23	CB-14	274.97	266.83	CB-17	274.24	265.64	CPP	24	119	0.010
C-24	CB-15	274.24	270.24	CB-16	274.24	268.80	CPP	12	144	0.010
C-25	CB-16	274.24	268.55	CB-17	274.24	267.11	CPP	15	144	0.010
C-26	CB-17	274.24	265.54	DMH-02	274.62	265.22	CPP	30	32	0.010
C-27	DMH-02	274.62	263.52	OWS-01	-	263.50	CPP	18	2	0.010
C-28	DMH-02	274.62	265.12	SWALE	-	263.21	CPP	24	44	0.043
C-29	OWS-01	-	263.50	SWALE	-	263.21	PVC	18	29	0.010
C-30	HS-02	275.03	266.36	SWALE	-	265.97	CPP	24	39	0.010



PLAN VIEW

NOTES:

1. CATCH BASIN AND DRAIN MANHOLE STRUCTURE DIAMETERS TO BE DESIGNED BY THE DESIGN BUILD ENGINEER.
2. DMH-02 SHALL HAVE SECOND OUTLET PIPE FOR STORMWATER OVERFLOW (NOT SHOWN ON DETAIL).



ELEVATION VIEW

TYPICAL DRAIN MANHOLE DETAIL

1 5

NOT TO SCALE

CATCH BASIN TYPE	
CB-01	II
CB-02	II
CB-03	II
CB-04	III
CB-05	I
CB-06	II
CB-07	I
CB-08	I
CB-09	II
CB-10	II
CB-11	III
CB-12	II
CB-13	II
CB-14	III
CB-15	I
CB-16	II
CB-17	III

NOTES:

1. SEE DETAILS 1 THROUGH 3 ON THIS SHEET FOR INFORMATION EACH TYPE OF CATCH BASIN.
2. CATCH BASIN AND DRAIN MANHOLE STRUCTURE DIAMETERS TO BE DESIGNED BY THE DESIGN BUILD ENGINEER.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL
1	06/28/18	MODIFIED CATCH BASIN TYPES I AND II, AND DRAIN MANHOLE PER CITY OF ROCHESTER PLANNING BOARD APPROVAL.	DTL

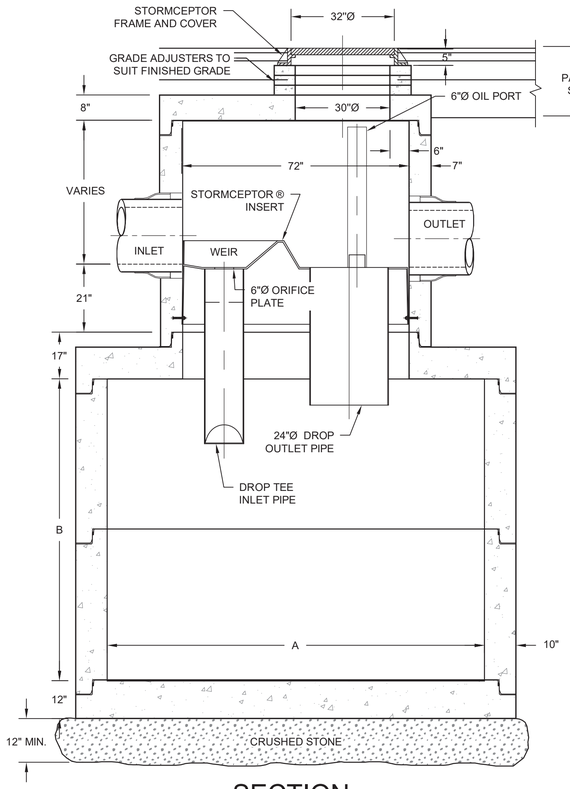
DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

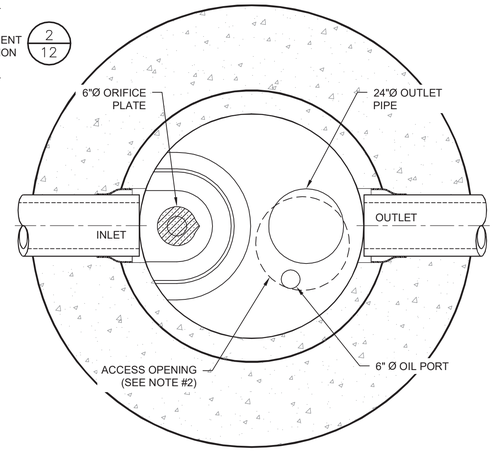
STORMWATER DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 15 OF 22



SECTION



PLAN VIEW

HYDRODYNAMIC SEPARATOR SCHEDULE		
ID	A	B
HS-01	144"	96" MIN.
HS-02	120"	90" MIN.

4

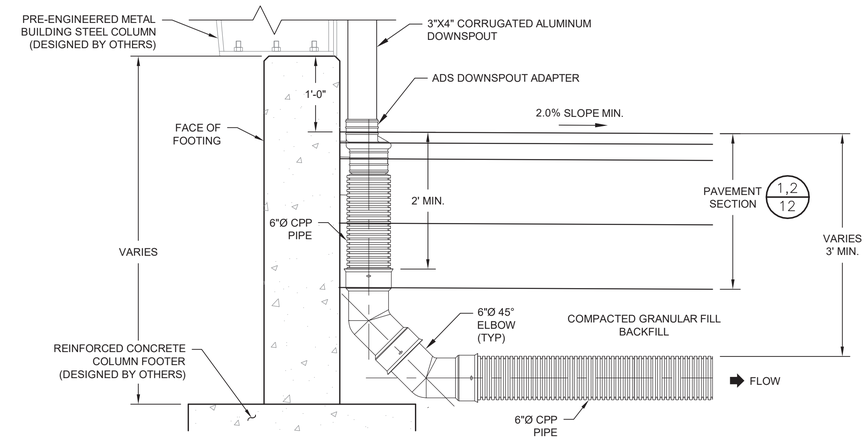
NOTES:

1. HYDRODYNAMIC SEPARATOR SHOWN IS FOR REFERENCE ONLY.
2. HYDRODYNAMIC SEPARATORS TO BE DESIGNED BY LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO PROVIDE MINIMUM TREATMENT FOR THE WATER QUALITY FLOWS. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL BY THE CONTRACTOR.
3. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AN OUTLET WHERE APPLICABLE.
4. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.
5. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OF MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
6. CONTACT A CONCRETE PIPE DIVISION REPRESENTATIVE FOR FURTHER DETAILS NOT LISTED ON THIS DRAWING.
7. CONTRACTOR TO INSTALL STORMCEPTOR HYDRODYNAMIC SEPARATOR OR APPROVED EQUIVALENT.

TYPICAL HYDRODYNAMIC SEPARATOR DETAIL

1

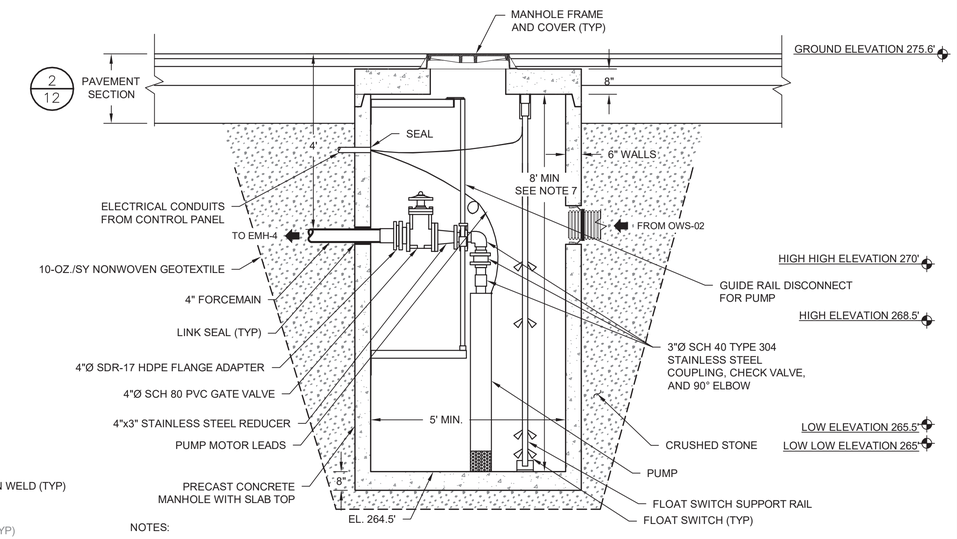
NOT TO SCALE



ROOF RUNOFF DRAIN

2

NOT TO SCALE



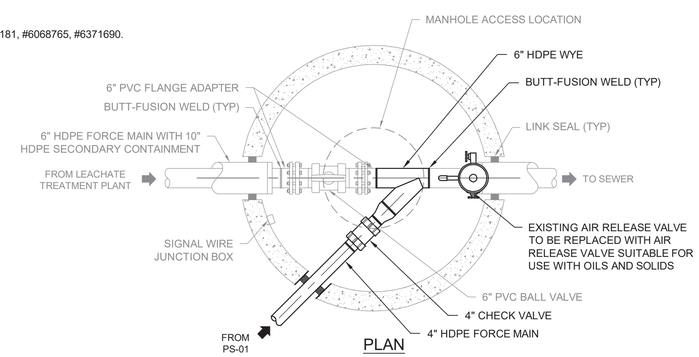
NOTES:

1. THE DRAIN STRUCTURE SHALL BE A REINFORCED CONCRETE PRECAST STRUCTURE WITH ALL REQUIRED WALL PENETRATIONS AND DRAIN INLET FRAME CAST-IN AT THE FACTORY AND SHIPPED TO THE SITE WITH SUFFICIENT LIFTING HOOKS TO ALLOW FOR PROPER PLACEMENT OF STRUCTURE. REINFORCEMENT FOR PRECAST STRUCTURE SHALL BE DESIGNED BY THE MANUFACTURER. DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. DESIGN SUBMITTAL SHALL BE STAMPED BY A NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER.
2. INTERIOR FLOOR AND WALL OF DRAIN STRUCTURE SHALL BE COATED AFTER INSTALLATION WITH 2 COATS OF SIKAGARD 62, COLOR GRAY MANUFACTURED BY SIKA CORPORATION OF MARION, OHIO.
3. EXTERIOR SURFACES OF THE DRAIN STRUCTURE TO BE INSTALLED BELOW GROUND SURFACE SHALL BE COATED WITH A CUT-BACK ASPHALT WATER-PROOFING PRODUCT DESIGNED FOR THIS APPLICATION.
4. JOINTS IN DRAIN STRUCTURE SHALL BE SEALED WITH EZ-STIK BUTYL-RUBBER -BASED PREFORMED FLEXIBLE SEALANT AND EXTERIOR OF JOINTS SHALL BE SEALED WITH EZ-WRAP EPDM-BACKED BUTYL-RUBBER-BASED TAPE.
5. INCLUDE SUFFICIENT SLACK IN PUMP MOTOR LEADS TO ALLOW FOR THE PUMP TO BE REMOVED FROM THE STRUCTURE.
6. PUMP TO BE DESIGNED TO CONVEY 150 GALLONS PER MINUTE (GPM) AND GENERATE A MINIMUM HEAD OF 16 FEET.
7. DEPTH OF STRUCTURE AND FLOAT ELEVATIONS TO BE DETERMINED BASED ON PUMP SELECTED. STRUCTURE MUST BE SIZED TO PROVIDE AN ADEQUATE SUMP AND FLOATS BE POSITIONED AT ELEVATIONS TO ALLOW FOR PROPER PUMP OPERATION.

PUMP STATION PS-01 DETAIL

4

NOT TO SCALE



PLAN

SEWER FORCEMAIN TIE IN DETAIL AT EMH-4

3

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11494 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
4	09/13/18	CORRECTED SCHEDULE	MNH
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

STORMWATER DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 16 OF 22

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USER: dtlong
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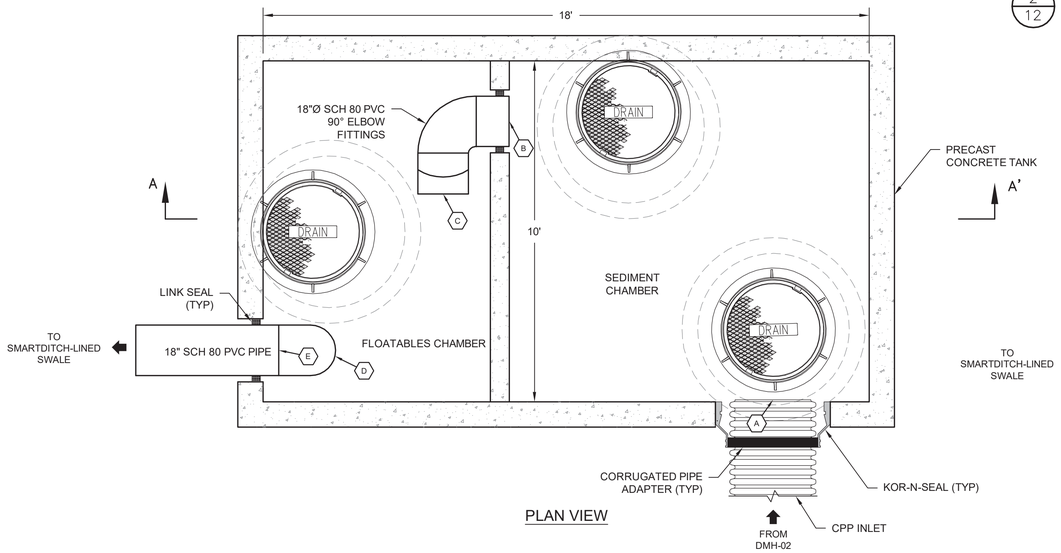
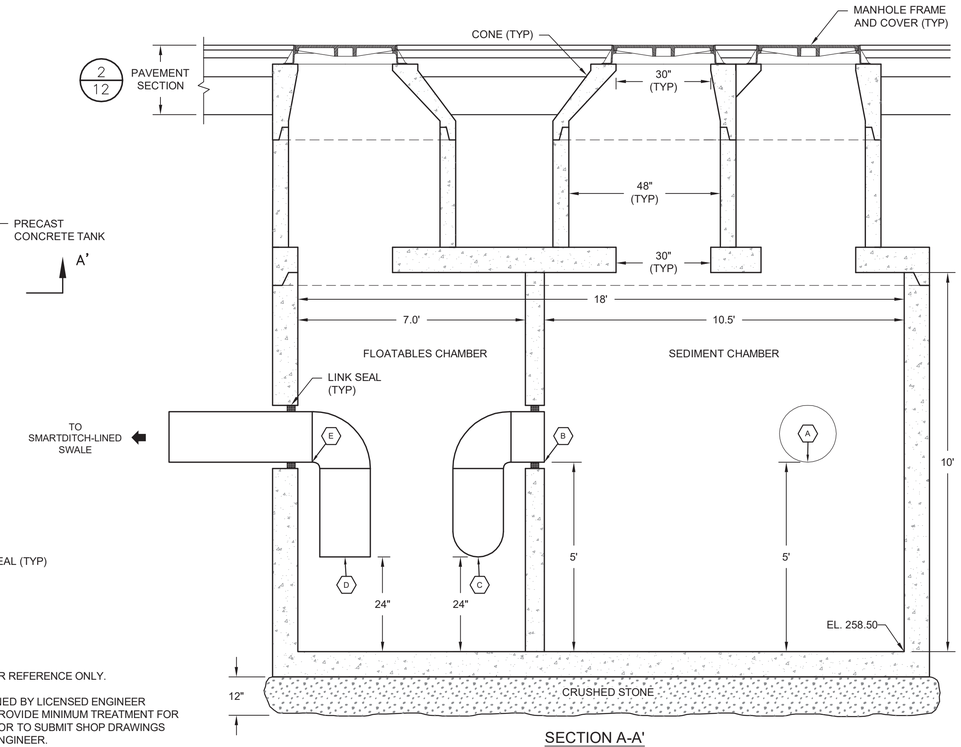


PLAN VIEW



SECTION A-A'
ELEVATION VIEW

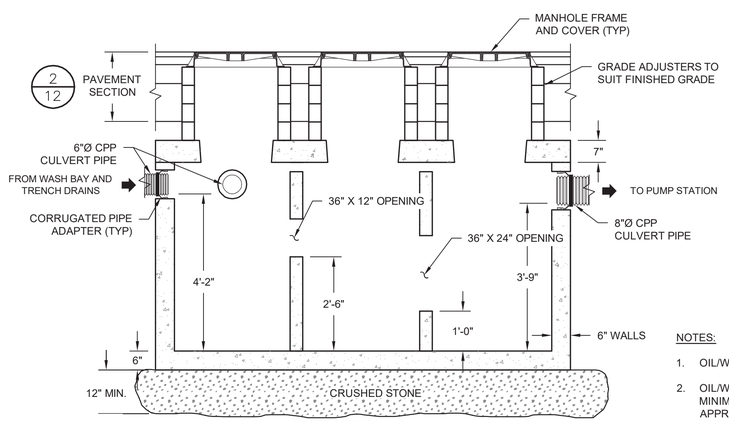
SEPARATOR INVERT SCHEDULE				
INVERT DESIGNATION	DESCRIPTION	PIPE DIAMETER (IN)	PIPE MATERIAL	INVERT ELEVATION (FT)
A	PIPE FROM DMH-02	18	CPP	263.50
B	FLOATABLES CHAMBER INLET (UPPER)	18	PVC	263.50
C	FLOATABLES CHAMBER INLET (LOWER)	18	PVC	260.50
D	FLOATABLES CHAMBER OUTLET (UPPER)	18	PVC	260.50
E	FLOATABLES CHAMBER OUTLET (LOWER)	18	PVC	263.50

NOTES:

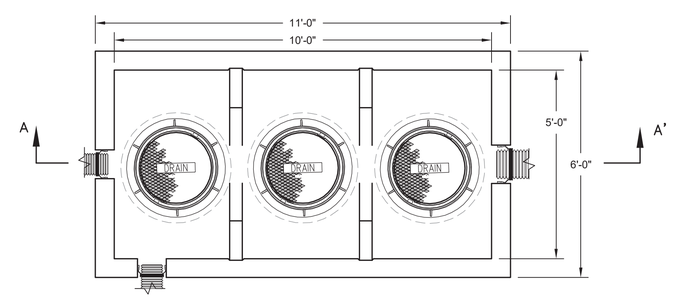
1. OIL/WATER SEPARATOR SHOWN IS FOR REFERENCE ONLY.
2. OIL/WATER SEPARATOR TO BE DESIGNED BY LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO PROVIDE MINIMUM TREATMENT FOR THE ANTICIPATED FLOWS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE OWNER AND ENGINEER.

1 OIL/WATER SEPARATOR OWS-01 DETAIL

NOT TO SCALE



SECTION A-A'
ELEVATION VIEW



PLAN VIEW

NOTES:

1. OIL/WATER SEPARATOR SHOWN IS FOR REFERENCE ONLY.
2. OIL/WATER SEPARATOR TO BE DESIGNED BY LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO PROVIDE MINIMUM TREATMENT FOR THE ANTICIPATED FLOWS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE OWNER AND ENGINEER.

2 1,500 GALLON OIL/WATER SEPARATOR OWS-02 DETAIL

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11496 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

STORMWATER DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 17 OF 22

IMAGES: P:\4292\4292.00\Graphics Files\CAD\Site Plan\RevisedMfg Overhead Light.JPG
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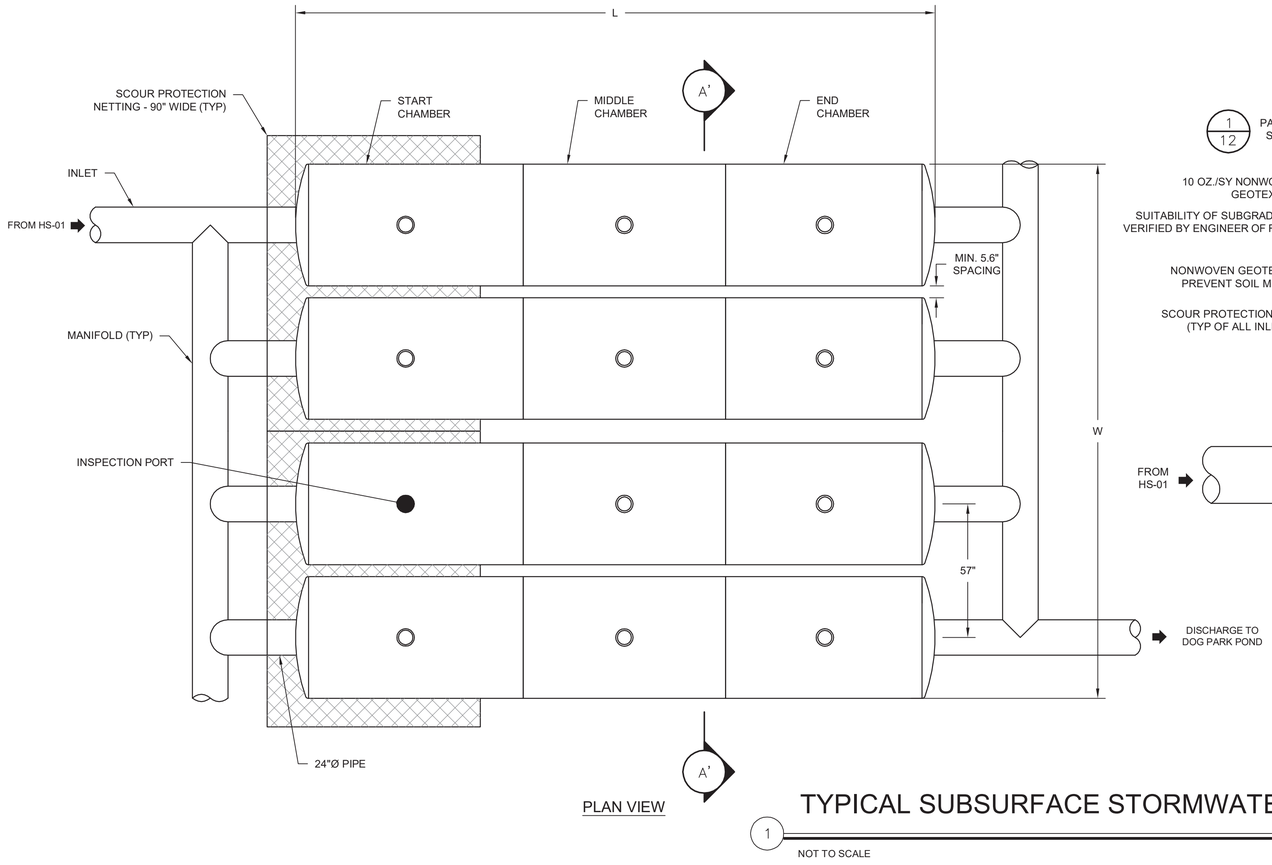
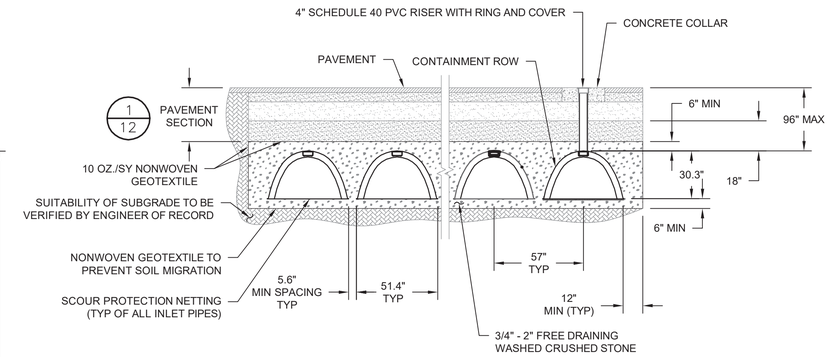
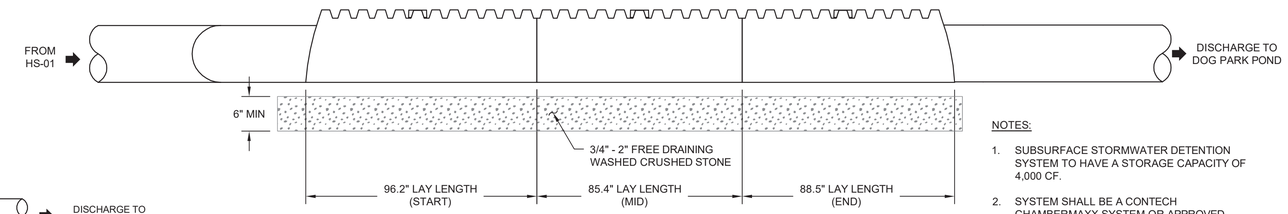
FILE: P:\4292\4292.00\Graphics Files\CAD\Site Plan\4292-00-13-24REV14.dwg
LAYOUT: 17 OF 22
USER: mack
PLOT DATE: 9-19-18 11:05 AM



PLAN VIEW



SECTION A-A'



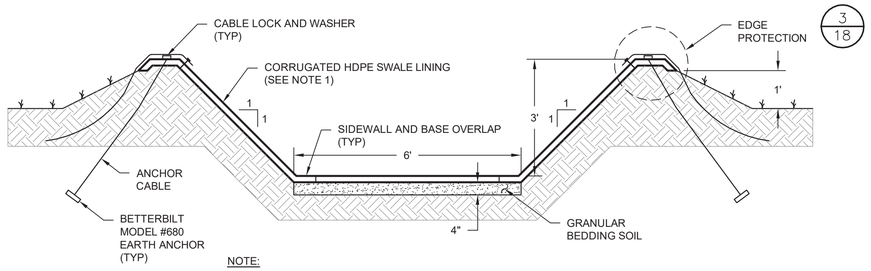
ELEVATION VIEW

NOTES:

1. SUBSURFACE STORMWATER DETENTION SYSTEM TO HAVE A STORAGE CAPACITY OF 4,000 CF.
2. SYSTEM SHALL BE A CONTECH CHAMBERMAXX SYSTEM OR APPROVED EQUIVALENT BY OWNER.
3. CONTRACTOR TO INSTALL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

TYPICAL SUBSURFACE STORMWATER DETENTION SYSTEM LAYOUT DETAIL

1 NOT TO SCALE

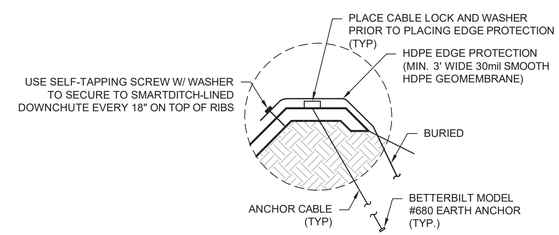


NOTE:

1. CORRUGATED HDPE SWALE LINING SHALL BE MEGADITCH BY PENDA CORPORATION, 2344 W. WISCONSIN STREET, PORTAGE, WI 53901 TEL. (866) 576-2783 WWW.SMARTDITCH.COM OR APPROVED EQUIVALENT.

SMARTDITCH-LINED SWALE SECTION

2 NOT TO SCALE

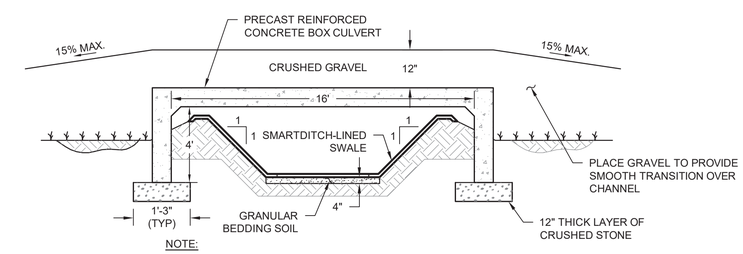


NOTE:

1. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR MORE INFORMATION REGARDING THIS ANCHORING SYSTEM.

EDGE PROTECTION DETAIL

3 NOT TO SCALE



NOTE:

1. BOX CULVERT CROSSING TO BE RATED FOR AASHTO H-20 LOADING.

ROAD CROSSING BOX CULVERT DETAIL

4 NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11484 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

STORMWATER DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 18 OF 22

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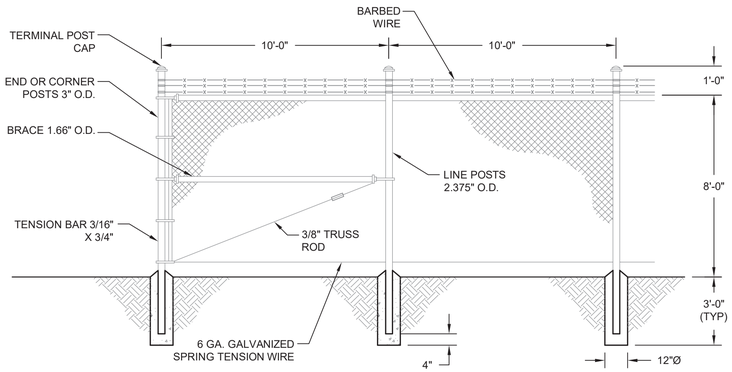
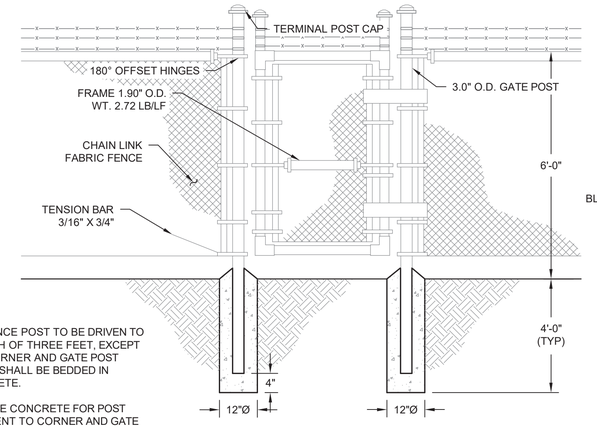


1 TYPICAL CHAIN LINK FENCE DETAIL

NOT TO SCALE

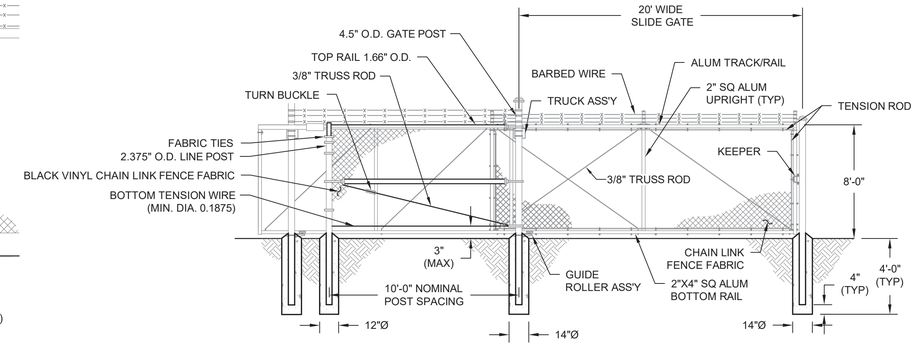


NOTES:

1. ALL FENCE POST TO BE DRIVEN TO A DEPTH OF THREE FEET, EXCEPT FOR CORNER AND GATE POST WHICH SHALL BE BEDDED IN CONCRETE.
2. PROVIDE CONCRETE FOR POST ADJACENT TO CORNER AND GATE POSTS.

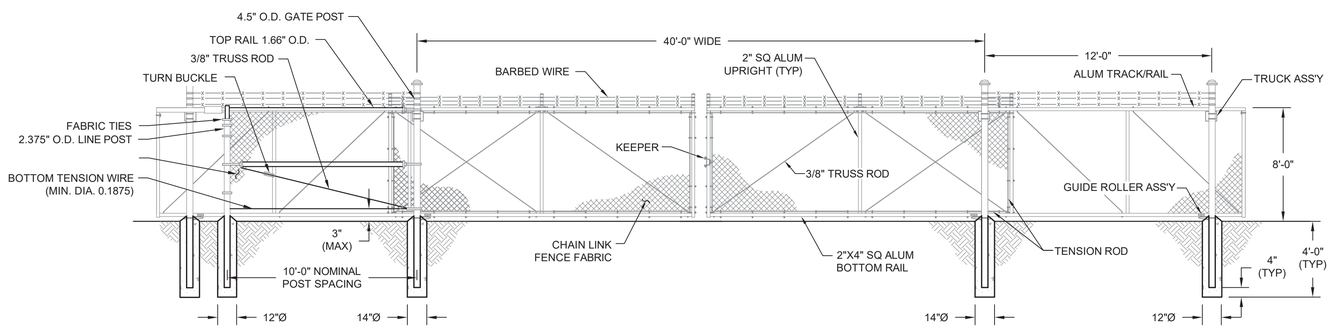
2 PERSONNEL GATE DETAIL

NOT TO SCALE



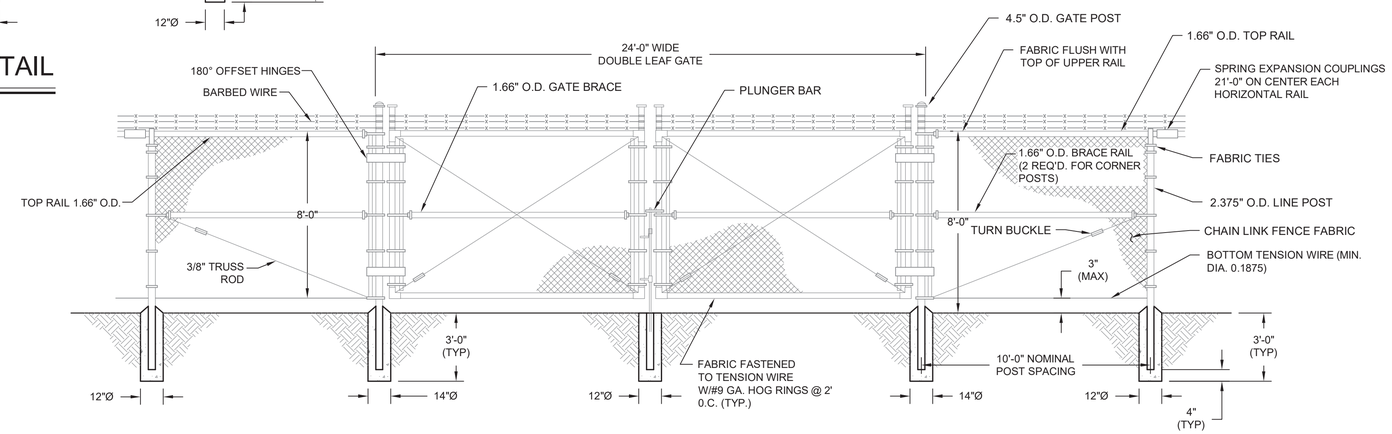
3 SINGLE CANTILEVERED SLIDE GATE DETAIL

NOT TO SCALE



4 DOUBLE CANTILEVERED SLIDE GATE DETAIL

NOT TO SCALE



5 DOUBLE LEAF GATE DETAIL

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11494 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

FENCE DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 19 OF 22

IMAGES: P:\4292\4292.00\Graphics Files\CAD\Site Plan\Wetlands\Overhead Light.JPG
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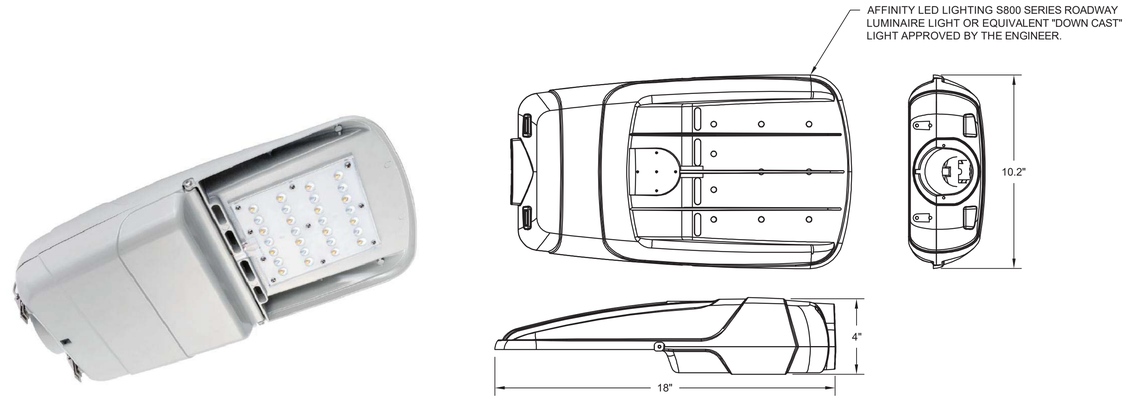
LAYOUT: 19 - FENCE
PLOT DATE: 9-13-18 1:26 AM

NOTES:

1. SPECIFICATION SHEETS FOR THIS PRODUCT ARE AVAILABLE AT WWW.LITHONIA.COM

1 TYPICAL WALL LIGHT DETAIL

NOT TO SCALE

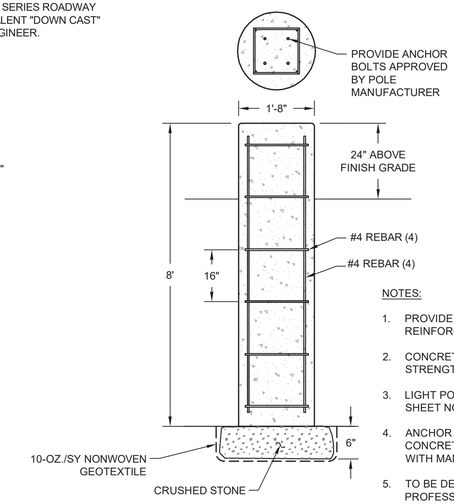


NOTES:

1. MOUNTING HEIGHT = 15 FEET.
2. SPECIFICATION SHEETS AVAILABLE FOR THIS PRODUCT AT WWW.AFFINITYLEDLIGHT.COM

2 TYPICAL TRAFFIC AREA LIGHT DETAIL

NOT TO SCALE

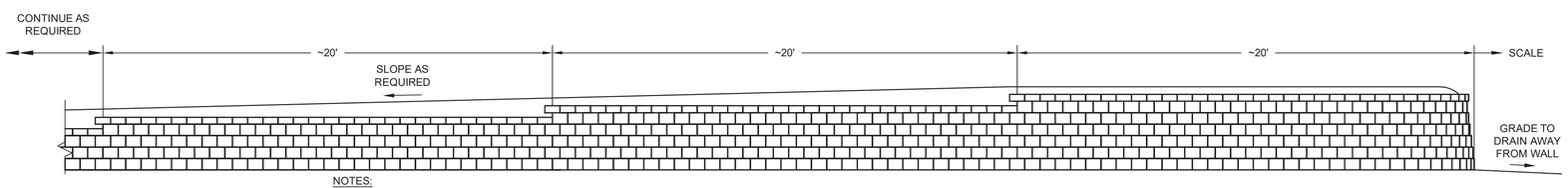


NOTES:

1. PROVIDE 3" CONCRETE COVER OVER REINFORCING STEEL.
2. CONCRETE SHALL BE MIN. 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
3. LIGHT POLE LOCATIONS ARE INDICATED ON SHEET NO. 4.
4. ANCHOR BOLTS SHALL BE ATTACHED TO CONCRETE REINFORCEMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. TO BE DESIGNED BY NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER.

3 TYPICAL LIGHT POLE BASE DETAIL

NOT TO SCALE

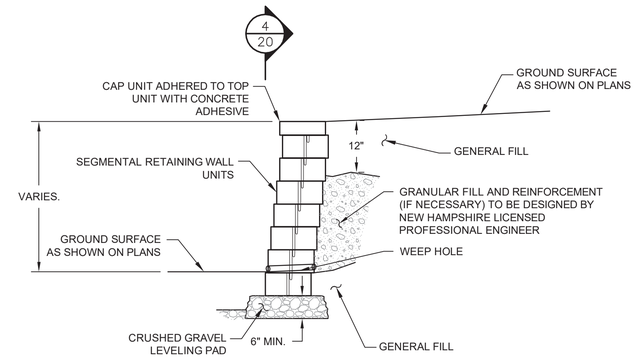


NOTES:

1. SEGMENTAL RETAINING WALL SYSTEM TO BE DESIGNED BY NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER.
2. SEGMENTAL RETAINING WALL SYSTEM TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE OWNER PRIOR TO DELIVERY TO THE SITE.

4 TYPICAL SEGMENTAL RETAINING WALL ELEVATION

NOT TO SCALE



NOTES:

1. SEGMENTAL RETAINING WALL SYSTEM TO BE DESIGNED BY NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER.
2. ITEMS SUCH AS TRUSSES, FENCES, AND GUARDRAILS NOT SHOWN FOR CLARITY.

5 TYPICAL RETAINING WALL SECTION

NOT TO SCALE

NOTE:

1. REFER TO SHEETS G-1.11 AND P-1.0 FOR INFORMATION ON CNG EQUIPMENT AREA AND TRUSS SYSTEM LIGHTING. INFORMATION PROVIDED BY T. MITCHELL ENGINEERS, INC. OF SAN LEANDRO, CALIFORNIA.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE — ERIC SCOTT STEINHAUSER No. 11494 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

LIGHTING AND RETAINING WALL DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 20 OF 22

IMAGES: P:\4200\4292.00\Graphics Files\CAD\Site Plan\Wall\Affinity Downlight Light.JPG
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LAYOUT: 20
USER: T. REED
PLOT DATE: 9-13-18 1:26 AM

GENERAL NOTES:

1. CONDUCT EARTHWORK ACTIVITIES SO THAT THE SMALLEST PRACTICAL AREA IS EXPOSED AT ANY ONE TIME PRIOR TO FINAL GRADING AND STABILIZING WITH SEED AND MULCH. UNSTABILIZED AREAS NOT WITHIN THE LANDFILL FOOTPRINT SHALL BE LIMITED TO NOT MORE THAN 2 CONTIGUOUS ACRES AT ANY ONE TIME. THE TERM "STABLE" IS DEFINED AS MEETING ONE OF THE FOLLOWING CRITERIA:
   A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
   B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   C. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE RIPRAP HAS BEEN INSTALLED; OR
   D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
2. APPLY SEED, LIME, FERTILIZER, AND HAY MULCH TO DISTURBED AREAS, NEWLY-PLACED FILL SLOPES, AND GRASS-LINED SWALES WITHIN 7 DAYS OF ACHIEVING FINAL GRADE. ALSO APPLY SEED AND HAY MULCH TO THOSE AREAS OUTSIDE OF THE LANDFILL FOOTPRINT WHICH WILL NOT BE RE-DISTURBED FOR A PERIOD OF 30 DAYS OR MORE. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE.
3. EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS AND AT THE DISCRETION OF THE ENGINEER AND OWNER. FILTER LOGS SHALL BE INSTALLED ALONG THE CONTOUR AND TOED UPSLOPE AND ARE TO BE MAINTAINED AND CLEANED UNTIL VEGETATIVE COVER IS ESTABLISHED.
4. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM EVENT WHICH PRODUCES 0.25 INCHES OF RAINFALL. ALL DAMAGED EROSION CONTROL BARRIERS SHALL BE REPAIRED PROMPTLY.
5. TRACK UP AND DOWN REGRADED SLOPES (GROUSER TRACKS PERPENDICULAR TO THE SLOPE) WITH A BULLDOZER TO LIMIT EROSION.
6. REMOVE SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITY AS NEEDED FROM DETENTION PONDS TO MAINTAIN STORAGE CAPACITY AND AT THE DIRECTION OF THE ENGINEER OF OWNER. DISPOSE SEDIMENT IN A SECURE LOCATION SO AS TO PREVENT SILTATION OF NATURAL WATERWAYS.
7. REMOVE SEDIMENT BUILD UP FROM BEHIND EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES UNTIL FULL ESTABLISHMENT OF PERMANENT GROUND COVER.
8. DITCHES, SWALES, AND PONDS SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING OF THE SITE) AND STABILIZED BEFORE RUNOFF IS DIRECTED TO THEM.
9. CONDUCT SOIL BORROW EXCAVATION ACTIVITIES IN SUCH A MANNER THAT ALL RUNOFF FROM THE EXCAVATION AREAS IS CONTAINED WITHIN THE EXCAVATION.
10. THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

SPECIFICATIONS:

1. TOPSOIL SHALL BE FERTILE SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FREE FROM ROOTS, STICKS, PEAT, WEEDS, AND SOD. IT SHALL NOT CONTAIN MATERIAL HARMFUL TO PLANT GROWTH.
2. FERTILIZER (10-10-10) SHALL BE LOW PHOSPHATE AND SLOW RELEASE NITROGEN AND APPLIED UNIFORMLY OVER THE DISTURBED AREA AT A RATE OF TWENTY (20) POUNDS PER 1,000 SQUARE FEET (APPROXIMATELY 875 POUNDS PER ACRE).
3. GRASS SEED SHALL BE FROM THE SAME OR PREVIOUS YEAR'S CROP; EACH VARIETY OF SEED SHALL HAVE A PERCENTAGE OF GERMINATION NOT LESS THAN NINETY (90), A PERCENTAGE OF PURITY NOT LESS THAN EIGHTY-FIVE (85), AND SHALL HAVE NOT MORE THAN ONE PERCENT (1%) WEED CONTENT.
4. MULCH SHALL CONSIST OF DRY HAY OR STRAW AND BE FREE OF NOXIOUS WEEDS OR MOLD.
5. APPLICATION OF FERTILIZER, LIME, SEED, AND MULCH SHALL ONLY BE PERFORMED DURING THOSE PERIODS WITHIN THE SEASONS WHICH ARE NORMAL FOR SUCH WORK AS DETERMINED BY THE WEATHER AND LOCALLY ACCEPTED PRACTICE, AND AS APPROVED BY THE ENGINEER.
6. ANY PART OF THE SEEDED AREA WHICH FAILS TO YIELD AN ACCEPTABLE STAND OF GRASS AS DETERMINED BY THE ENGINEER OR OWNER SHALL BE RETREATED WITH ADDITIONAL SEED, FERTILIZER, AND MULCH.

GENERAL SEED MIX

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10

NOTE: GENERAL SEED MIXTURE TO BE APPLIED TO AREAS OTHERWISE NOT SPECIFIED TO BE SEEDED WITH ANOTHER MIX.

WINTER NOTES:

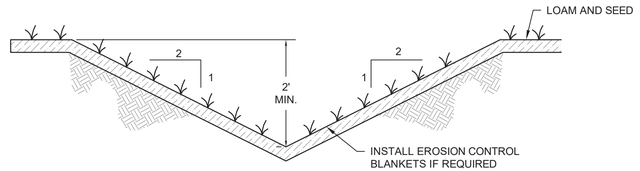
1. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND
3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

TEMPORARY EROSION CONTROL MEASURES:

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. EROSION CONTROL STRUCTURES SHALL BE INSTALLED ALONG THE EXISTING CONTOUR IN LOCATIONS SHOWN ON THE PLANS AND ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE BEEN ADEQUATELY STABILIZED.
3. ALL DISTURBED AREAS SHALL BE FINE GRADED BEFORE BEING SEEDED AND MULCHED.
4. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL STRUCTURES ARE TO BE REMOVED AND ACCUMULATED SEDIMENT DISPOSED OF IN A SECURE LOCATION.
6. EROSION CONTROL STRUCTURES SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED.

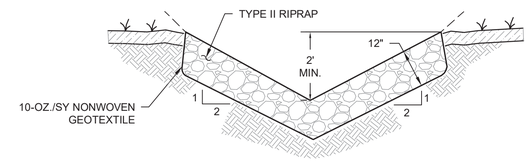
FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338. 3

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:



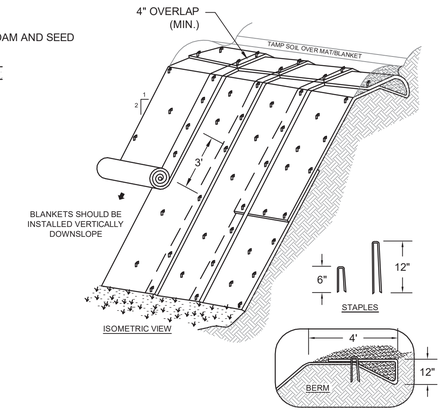
1 GRASS-LINED SWALE SWALE

NOT TO SCALE



2 RIPRAP-LINED SWALE SECTION

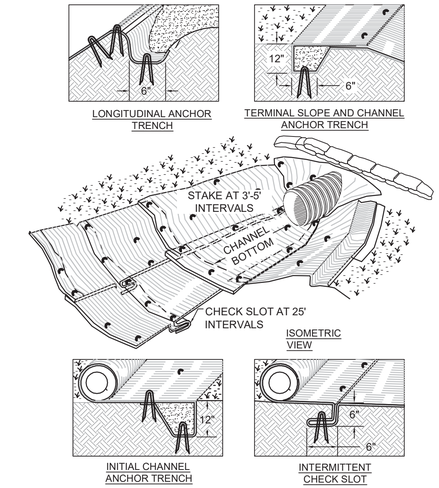
NOT TO SCALE



SLOPE INSTALLATION

SLOPE INSTALLATION NOTES:

1. DIMENSIONS GIVEN IN THE DRAWINGS ARE EXAMPLES; MATERIAL SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS.
3. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.



CHANNEL INSTALLATION

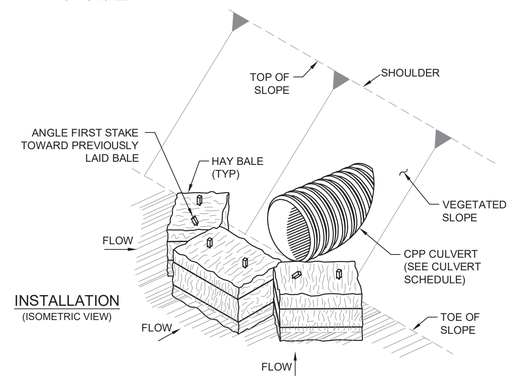
CHANNEL INSTALLATION NOTES:

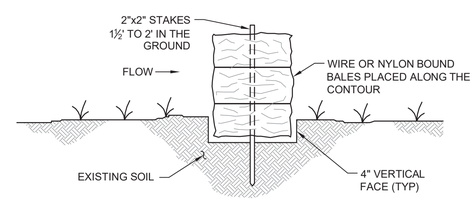
1. DIMENSIONS GIVEN IN THE DRAWINGS ARE EXAMPLES; MATERIAL SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURER'S SPECIFICATIONS.
3. STAKING OR STAPLING LAYOUT PER MANUFACTURER'S SPECIFICATIONS.

SOURCE: "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" REVISION 1.0, DECEMBER 2008, PAGES 74 AND 75.

3 EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE

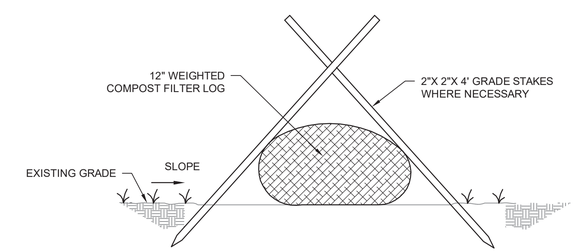




ANCHORING
(ELEVATION VIEW)

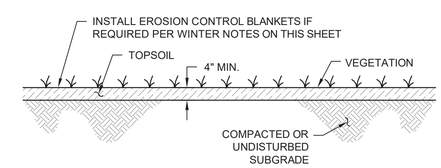
5 TEMPORARY HAY BALE INLET PROTECTION

NOT TO SCALE



4 FILTER LOG

NOT TO SCALE



6 LOAM AND SEED

NOT TO SCALE

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE ERIC SCOTT STEINHAUSER No. 11484 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

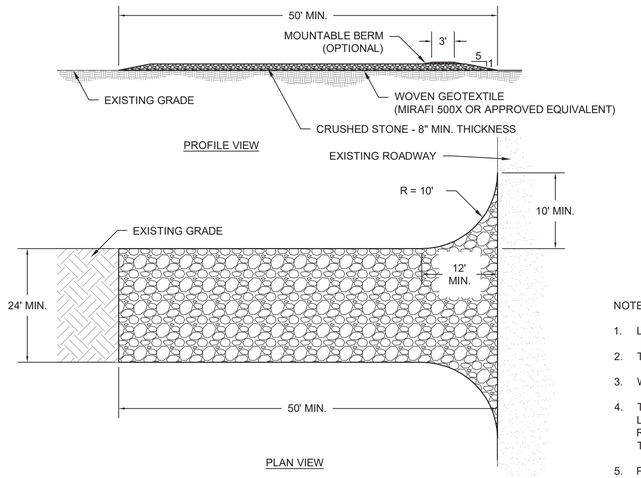
DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EROSION AND SEDIMENTATION CONTROL DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 21 OF 22

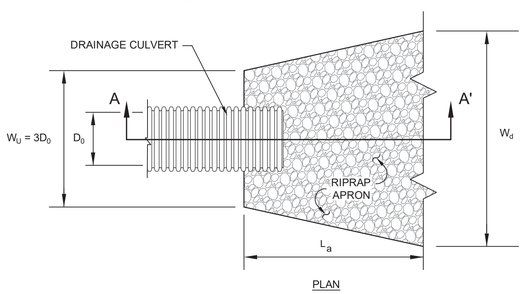


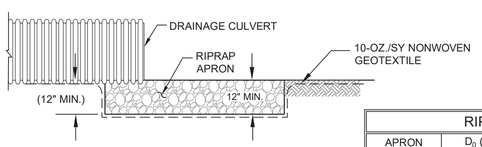
NOTES:

1. LENGTH - NOT LESS THAN 50'.
2. THICKNESS - NOT LESS THAN 8".
3. WIDTH - NOT LESS THAN 24'.
4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED.
5. PERIODIC INSPECTION, AND MAINTENANCE IF REQUIRED, SHALL BE PROVIDED AFTER EACH RAIN EVENT.

1 STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

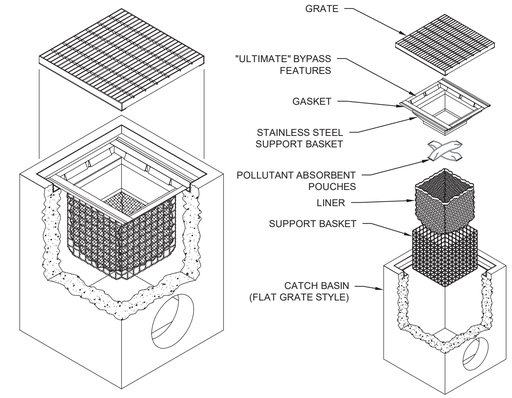




RIPRAP OUTLET PROTECTION APRON SCHEDULE						
APRON	D_0 (ft)	W_u (ft)	L_a (ft)	W_d (ft)	RIPRAP TYPE	h (in)
A-1	1.50	4.50	10	11.50	TYPE I	12
A-2	1.50	4.50	10	11.50	TYPE I	12

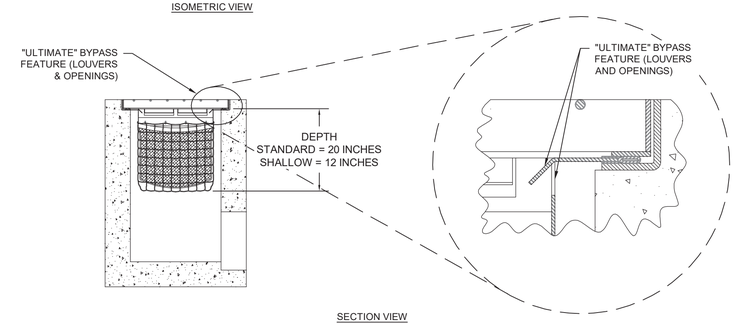
3 RIPRAP OUTLET PROTECTION APRON DETAIL

NOT TO SCALE



NOTES:

1. FILTER INSERT SHALL HAVE A HIGH FLOW BYPASS FEATURE.
2. FILTER SUPPORT FRAME SHALL BE CONSTRUCTED FROM STAINLESS STEEL TYPE 304.
3. POLLUTANT ABSORBENT POUCHES SHALL CONSIST OF FOSSIL ROCK AND SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
4. STORAGE CAPACITY REFLECTS 80% OF MAXIMUM SOLIDS COLLECTION PRIOR TO IMPEDING FILTERING BYPASS.



2 CATCH BASIN SILT SOCK DETAIL

NOT TO SCALE

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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: DATE:

SANBORN HEAD

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE
ERIC SCOTT STEINHAUSER
No. 11494
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY
3	07/30/18	REVISED PLANNING DEPARTMENT ADDRESS.	DTL

DRAWN BY: A. MATTHEWS / D. LONG
DESIGNED BY: A. MATTHEWS / D. LONG
REVIEWED BY: K. ANDERSON
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: APRIL 2018

ROCHESTER HAULING COMPANY FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EROSION AND SEDIMENTATION CONTROL DETAILS

PROJECT NUMBER: 4292.00

SHEET NUMBER: 22 OF 22

IMAGES: D:\Sbh\Header.INTIF
C:\Program Files\CADSoft\EagleLite\BRD\OUT.BMP

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FILE: P:\4200s\4292.00\Graphics Files\CAD\Site Plan\4292000-22-REV3.dwg
LAYOUT: 22 - Details
CTB FILE: SBH-Standard.ctb
PLOT DATE: 8-3-18