



Permit # SP- _____ - _____

TOWN OF COLCHESTER APPLICATION FOR SITE PLAN REVIEW

All information requested on this application must be completed in full. Failure to provide the requested information either on this application form or on the site plan will result in your application being rejected and a delay in the review before the Development Review Board.

1) OWNER OF RECORD (Name as shown on deed, mailing address, phone and fax #) _____
Town of Colchester, P.O. Box 65, Colchester, Vermont 05446

2) APPLICANT (Name, mailing address, phone and fax #) Same as owner.

3) CONTACT PERSON (Name, mailing address, phone and fax #) _____
Glen Cuttitta, Colchester Parks and Recreation - (802)-264-5641 - gcuttitta@colchestervt.gov

4) CONSULTANT INFORMATION (Name, mailing address, phone and fax #) Krebs and Lansing
Greg Dixon, 164 Main Street Suite 201, Colchester, Vermont 05446 - (802)-878-0375
greg.dixon@krebssandlansing.com

5) PROJECT STREET ADDRESS: Blakely Road, Colchester VT

6) TAX MAP & PARCEL #(can be obtained at Assessor's Office) 66-021013-0000000

7) PROJECT DESCRIPTION

a) Existing Uses on Property (including description and size of each separate use) _____
Undeveloped, wooded.

b) Proposed Uses on property (include description and size of each new use and existing uses to remain) Recreation Center, Municipal Facility, Fitness Space, Gymnasium, Walking Track,
Meeting Classrooms

c) Total building square footage on property (proposed buildings and existing buildings to remain) _____
Proposed building ±18,900 s.f.

d) Height of building & number of floors (proposed buildings and existing buildings to remain, specify if basement and mezzanine) Proposed building will be 2 stories

e) Number of residential units (if applicable, new units and existing units to remain) _____
Not Applicable

f) Number of employees & company vehicles (existing and proposed, note office versus non-office employees): Employees for Parks and Recreation department and Facility Employees = 10 - 12

g) Other (list any other information pertinent to this application not specifically requested above, please note previous approvals and if the Overlay Districts are applicable): Portion of property is within the Shoreland district, shown on the site plans.

8) LOT INFORMATION

a) Acreage to be Disturbed: Less than 5 acres

b) Overall Coverage (building, parking, outside storage, etc)
Existing 0.0 % Proposed 16.9 %
Blakely = 1,170 s.f.
2,000 s.f.
c) Front Yard Coverage (along each street) Existing 0.0 % Proposed _____ % = 58.5%
E. Lake. = 0 s.f.
13,850 s.f.
= 0.0%

d) Lot Size: 13.3 acres
B: ±440'

e) Building Setbacks: Front E.L.: ±480' Rear N/A Side ±335' Side ±105'
B: ±200'

f) Parking Lot Setbacks: Front E.L.: ±375' Rear N/A Side ±75' Side ±75'

g) Distance From Shoreline (95.5' elevation): Shown on plans, Building is ±635' from elev. 95.5'

9) COST ESTIMATES Total cost of project: \$15,907.00

a) Building (including interior renovations): \$ included in total b) Landscaping: \$ included in total

c) Describe Landscaping & Other Site Improvements: See site plans and landscaping plans

10) ESTIMATED TRAFFIC

a) Average daily traffic for entire property (in and out): ±580 VTE

b) A.M. Peak hour for entire property (in and out): 53 VTE

c) P.M. Peak hour for entire property (In and out): 46 VTE

11) PEAK HOURS OF OPERATION: 6AM - 9PM

12) PEAK DAYS OF OPERATION: 7 Days a Week

13) ESTIMATED PROJECT COMPLETION DATE: Spring 2025

14) PUBLIC IMPROVEMENT, ROAD, & UTILITY INFORMATION

a) Will municipal sewer be used? when available If yes, has an allocation been requested? N/A

b) What is the previously approved wastewater flow? No What is the proposed flow? 3,850 GPD

What is the flow of the previous use? N/A What is the flow of the proposed use? Flows calcs. on C-2.03

- c) For on site wastewater disposal describe: In ground system, details and calculations in Civil Plan Set
- d) Has the Wastewater Official been contacted to review soil test pits? Yes, permit submitted
- e) Will municipal water be use? Yes (enclose letter from appropriate Fire District approving the proposed flow and noting gallons per day) See allocation letter from CWD/CFD#3
- f) If well a well is proposed enclose plan showing well and detailing flow: N/A (gpd)
- g) Linear footage & width of each road/driveway proposed: ±1,600' of access road and parking lot aisles, width varies from 20' wide to 26' wide depending on location
- h) Corner sight distance for each road/driveway: New signaled intersect, greater than 1000' in either direction
- i) How many parking spaces exist? 0 How many spaces will be available to the new use? 138

15) SITE PLAN AND FEE: A site plan shall be submitted which shows the information listed on Exhibit B attached. A site plan application fee shall be paid to the Town at the time of submittal (see Exhibit B). In accordance with Colchester's Fee Ordinance Chapter 6 ½ - 4 (9) applicants for all permits are responsible for costs of reviews conducted by third-party consultants/experts requested by the Town, plus a ten (10) percent administrative fee.

*Please submit one paper copy and a digital copy of the application in pdf (file not exceeding 20mb) via <https://elms.colchestervt.us/egov/>. If online submittal is not feasible, submissions will be accepted via CD/ DVD. Application forms, plans, and supporting documents shall each be separate pdfs and plans shall be submitted as a set whenever feasible. Files shall be named the address of the property and the type of document followed by the year (i.e. 205RooseveltHgwyApp15). Each file name shall be unique with no spaces and characters shall be numbers or letters (no characters such as hyphens, #, &, or *). All pdfs shall be at least at 300dpi, color, and to scale if a plan, elevation, or similar document.*

16) SITE PLAN REVIEW CRITERIA NARRATIVE: A narrative description of how the proposed project meets the criteria of Section 8.07 of the Development Regulations shall be submitted with this application.

I hereby certify that all the information requested as part of this application has been submitted and is accurate to the best of my knowledge.


SIGNATURE OF APPLICANT


SIGNATURE OF PROPERTY OWNER

By the land owner signature, the land owner is authorizing the applicant to act on their behalf.

- Check this box if the consultant listed is authorized to act on behalf of the applicant and land owner.
- Check this box if the contact person listed is authorized to act on behalf of the applicant and land owner.

Do not write below this line

DATE OF SUBMISSION: _____ FEE PAID: _____ REVIEW AUTHORITY: DRB Board ZA
I have reviewed this site plan application and find it to be: Complete Incomplete

Zoning Administrator or Designee Date

EXHIBIT A
ADJOINING PROPERTY OWNER INFORMATION

(please use the interactive map at Colchestervt.gov for info & try to include direct abutters as well as adjacent properties along the shoreline within the area of affect as well as across the street)

Example: Tax Map 7, Parcel 57 John and Jane Doe P.O. Box 55, 835 Blakely Road Colchester, VT 05446	See Attached abutter sheet	

**EXHIBIT B
SITE PLAN**

The following information must be shown on the site plan. Failure to provide the following information will result in your application being rejected and a delay in the review before the Development Review Board.

- Lot drawn to scale (20 feet scale if possible)
- Survey data (distance and acreage)
- Contours at two (2) foot elevation intervals (existing and finished)
- Boundaries and area of all abutting properties
- Building elevations & building level floor plans
- Proposed landscaping schedule (number, variety and size)
- Location of streets, abutting properties, fire hydrants, existing buildings, existing landscaping
- Location of proposed hydrants and/or building sprinkler hook-ups and fire lanes.
- Zoning boundaries
- Number and location of parking spaces (including handicapped spaces)
- Location of septic tanks, fields, & lines and/or septic test pit, and percolation information
- Location of any easements
- Lot coverage information: Building footprint, total lot, and front yard
- North arrow
- Name of person or firm preparing site plan and date
- Exterior lighting details (cut sheets). All lights should be down casting and shielded.
- Dumpster or trash area locations
- Bicycle rack
- If restaurant is proposed, provide number seats and square footage of floor area provided for patron use but not containing fixed seats
- Area for accumulating snow
- Water line location (existing & proposed), fire flows, and pressures
- Details of drainage systems & stormwater facilities
- Physical features (streams, wetlands, vegetative cover, etc.)
- Existing highway geometries including access points near project
- Existing & proposed entrances and curb cuts (dimensions, widths, & turning radii)
- Sight distance in both direction of all driveway intersections
- Traffic level of service/capacity analysis for existing/future conditions
- Loading areas & truck circulation patterns
- Existing & proposed sidewalks, recreation paths, and pedestrian walkways

APPLICATION FEE

- Residential - Single Family or Duplex dwellings:
 - Certificate of Appropriateness \$280; or
 - All others \$235
- Commercial/Industrial/PUD/Residential Multi-family:
 - Amendment (if site plan approval issued within past 5 yrs.) \$275; or
 - All others \$355
- Administrative Review
 - Single family or duplex dwellings - \$125; or
 - Commercial/Industrial/PUD/Residential Multi-family - \$155

January 13, 2023

Zachary Maia
Town of Colchester Planning and Zoning
781 Blakely Road
Colchester, Vermont 05446

RE: Bayside Park Recreation Center
Blakely Road, Colchester, Vermont
Site Plan Review

Dear Zachary,

The Town of Colchester is proposing building a recreation center for the Town of Colchester. The center will include a full-size multipurpose gymnasium, locker rooms, meeting/classroom/exercise rooms, kitchen, and exercise studio, fitness/cardio room, and an elevated walking/running track. In addition to the proposed building, the project will also include parking lots, access road, utility connections, sidewalks, a canopy mounted solar array, and all other supporting/associated infrastructure. Below are project compliance topics which were discussed during the technical review committee (TRC) with the Town and further information for the Development Review Board (DRB).

Lot Layout

The Project has sited the building, parking, and other infrastructure in the middle of the property. This provides substantial setbacks from the property lines and generally maintains existing forested area between the project and the neighbors. A good portion of the property will remain wooded, including the majority of the area with the 250' setback from Lake Champlain.

Potable Water Supply and Sewage Disposal

The Project has already applied for a State of Vermont Wastewater System and Potable Water Supply Permit (WW Permit). The current plan is to have an onsite septic system for the building, and the building will connect to municipal water on East Lakeshore Drive. This water service area was formerly Colchester Fire District #3 territory, which is now Champlain Water District. We have a preliminary allocation letter from CWD/CFD#3 for the calculated demand in

the building. In the future, the Project will also investigate connecting to the proposed municipal sewer project which will run along East Lakeshore Drive.

Operational Stormwater Permitting

The Project will result in an additional 2.25 acres of impervious surface. This increase is greater than the 0.5-acre State threshold, and the Project will be required to pursue a State of Vermont Operational Stormwater Discharge permit 3-9050. This property has great soils for stormwater infiltration. The Project's plan for stormwater discharge is to treat, contain, and infiltrate nearly all the runoff from the new impervious surface. A permit application has already been submitted to the State of Vermont Stormwater Department for their review.

Construction Stormwater Permitting

The Project will result in approximately 5 acres of disturbed soil. This includes all area to construct the project and intersection changes. This amount of disturbance is over the 1-acre threshold and will require a State of Vermont Construction Stormwater Permit. Due to the planned project construction, existing site conditions, existing soils, and existing grades; the Project is currently scored as "Low-Risk". Therefore, the Project will apply for a Low-Risk General Construction Stormwater Discharge permit 9020. We are waiting to apply for this permit until we are closer to construction, so the Project can include all changes and alterations which could come up from other permitting processes.

Project Access

The Project will be accessed from Blakely Road. The Project includes installation of a new signaled intersection with Blakely Road and Laker Lane. The new access will also be used by the neighbor and will be considered a shared driveway. A 10' wide pedestrian and bike path will run along the access road.

Parking

A lot of review and calculations went into determining the amount of parking needed for the proposed project. The proposed building will provide the Town's residents with a variety of uses; many of the uses proposed are outlined in the plan set, specifically on page C-2.03. With so many uses for the building, there will be times when there is a large demand for parking and times when there is little demand for parking.

We first evaluated the proposed project attempting to use the values outlined in the Town Regulations. The uses which most apply to the Project are "Community Center" and "Municipal Facility". The parking demand for Community Center is 0.33 parking spaces per maximum permitted occupancy. The parking demand for Municipal Facility is 3 spaces per 1,000 s.f. of

area. The building's total permitted occupancy will be approximately 870 persons, and the building will have approximately 22,000 s.f. of space. With these calculations and building values, we began evaluating parking needs.

The building has such a high permitted occupancy because of the gymnasium and walking track. We felt using the permitted occupancy would give us an unnecessarily large amount of parking. If we based it on solely this, the project would be required to build nearly 290 parking spaces. We also evaluated the building as a municipal facility. This calculation only gave us 70 parking spaces, and it is our professional judgment that 70 is not sufficient.

We determined that a combination of the two numbers would be a better fit for the project. A portion of the building could be viewed as "municipal facility"; we used 40%. This would include the Parks and Rec Department, some of the classroom facilities, maintenance facilities, etc. 60% of the maximum occupancy could be used to generate the additional parking needed for a Community Center. After we ran this calculation, we planned to build 2/3 of the total needed parking as outlined in the Town Regulations. Below is the calculation used.

Area for Municipal Facility = 8,800 s.f. = 27 parking spaces
60% of maximum occupancy for Community Center = 522 persons = 174 parking spaces
Total of 201 parking spaces, build 2/3 of the spaces = 134 parking spaces

The project is proposing a total of 138 spaces, with five of those spaces being accessible parking spaces.

To further review this parking calculation, we looked at similarly used facilities. The Project team thought one of the largest drivers on available parking was the proposed fitness center. The team looked at the parking capacity for many of the Sports and Fitness Edge facilities around the area. These facilities are used in a similar manner to the proposed building with fitness centers, recreational courts, indoor walking tracks, and community spaces. Therefore, we felt they were decent representations of needed parking for the proposed Project. We reviewed the available parking at five Sports and Fitness Edge locations, and evaluated the locations based on approximate building size. The highest parking value in this study was 3.5 spaces per 1,000 s.f. of building size. If we ran this for the proposed project, this calculation would give us 80 parking spaces. Therefore, we felt the amount of parking we proposed was more than sufficient.

We also wanted to evaluate the area around the proposed project. This is a community and municipal center and is centrally located in the Malletts Bay Bayside Park area. There are many other parking lots within walking distance to the proposed project if overflow parking is needed. It is a short walk on pedestrian walkways to parking in the High School lots, Middle School lots, or Bayside Park lot. We felt many of these parking spaces could be used during a larger event.

This Project also wanted to provide enough parking without creating unnecessary impervious surface. This project is proposing a substantial amount of new impervious, but we are looking to limit that impervious to the extent practical. We feel the parking proposed is sufficient for the use, while being good stewards of reducing impervious sprawl. Furthermore, there is additional developable space on this property which can be constructed into additional parking, if needed. Parking can continue to be evaluated over the years as parking demands change, the building/property use changes, and more evidence of parking use is reviewed. At minimum, the additional 67 parking spaces, 1/3 from the calculation above, could be installed along the western edge of the property or behind the proposed building.

Traffic

The Project generated traffic calculations using values published by the “Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition”. Values are listed as vehicle trip ends (VTE) based on specific uses in the manual. For this project, we performed the analysis for the proposed use based on VTE per 1,000 s.f. The uses in the calculations for the Project were “Government Office Building” (manual #730) and “Recreational Community Center” (manual #495). We also sectioned the building in a similar manner to the parking analysis above. Combined, the calculation gave us the following values for traffic.

Total Weekday Vehicle Trip Ends = ±580 VTE
Weekday AM Peak Vehicle Trip Ends = ±53 VTE
Weekday PM Peak Vehicle Trip Ends = ±53 VTE

We looked at different breakdowns of allocated space between the two uses analyzed. This breakdown fell in the middle of the values. The differences were ±20 for total weekday VTE and ±4 for weekday peak hour VTE.

The Project will be accessed using a proposed signaled intersection. Engineering, design, and calculations went into the proposed plan of that intersection. More in-depth traffic study and values are required when designing and programming the intersection. That work is currently in progress and is being performed by Trudell Consulting Engineers (TCE). We would be happy to share that information with the Development Review Board and Town when it becomes available.

Shoreline Zoning District

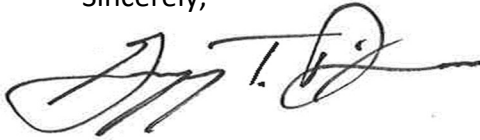
A portion of this project is within the shoreline protection zone and the Shoreline Zoning District. The Project is proposing a small amount of disturbance and clearing within the 250’ setback from the 95.5’ elevation. This work is required for the project’s access to water, which is located on East Lakeshore Drive. This same cleared corridor will also be used to eventually

Zachary Maia
Site Plan Review Application Narrative
Bayside Park Recreation Center
January 13, 2023

tap the proposed municipal sewer project which will run along East Lakeshore Drive once it is installed. The limits of the district and further information are provided on the Project's Civil Site Plan Set and Details.

Please refer to the civil site plans, vegetation plans, architectural plans, calculations, and additional attachments provided. Please contact us if you have any questions, comments or need additional information regarding this matter. We appreciate your time and guidance with this project.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Dixson". The signature is stylized with a large initial "G" and a long horizontal flourish extending to the right.

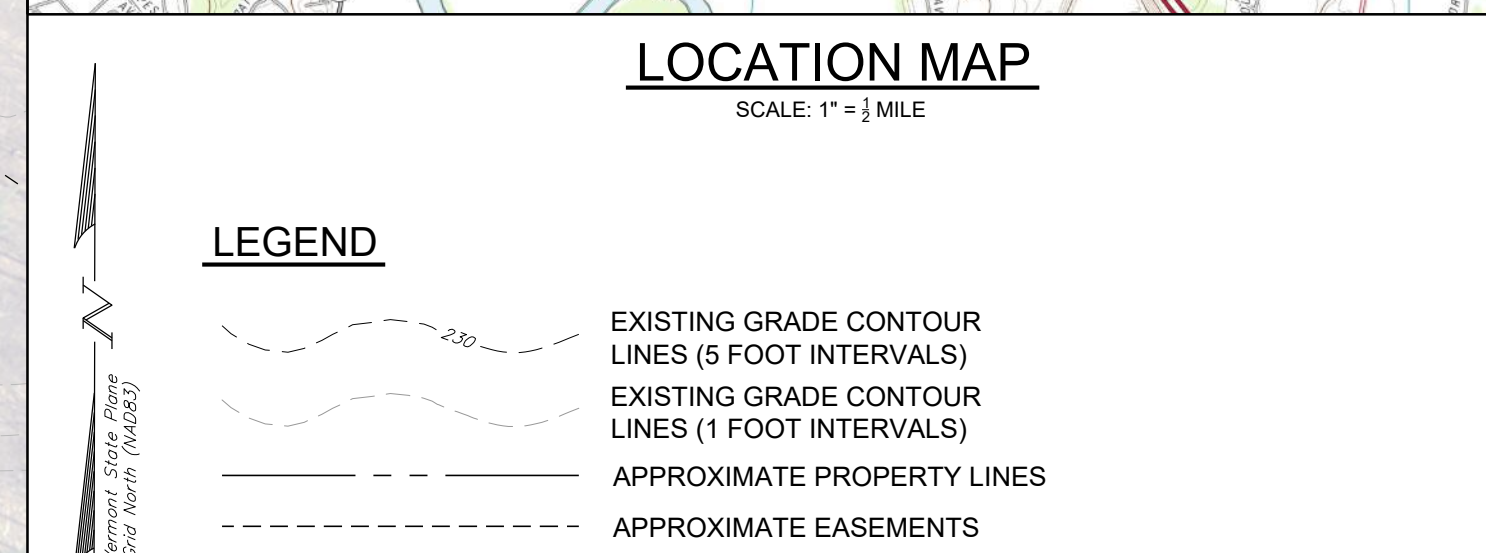
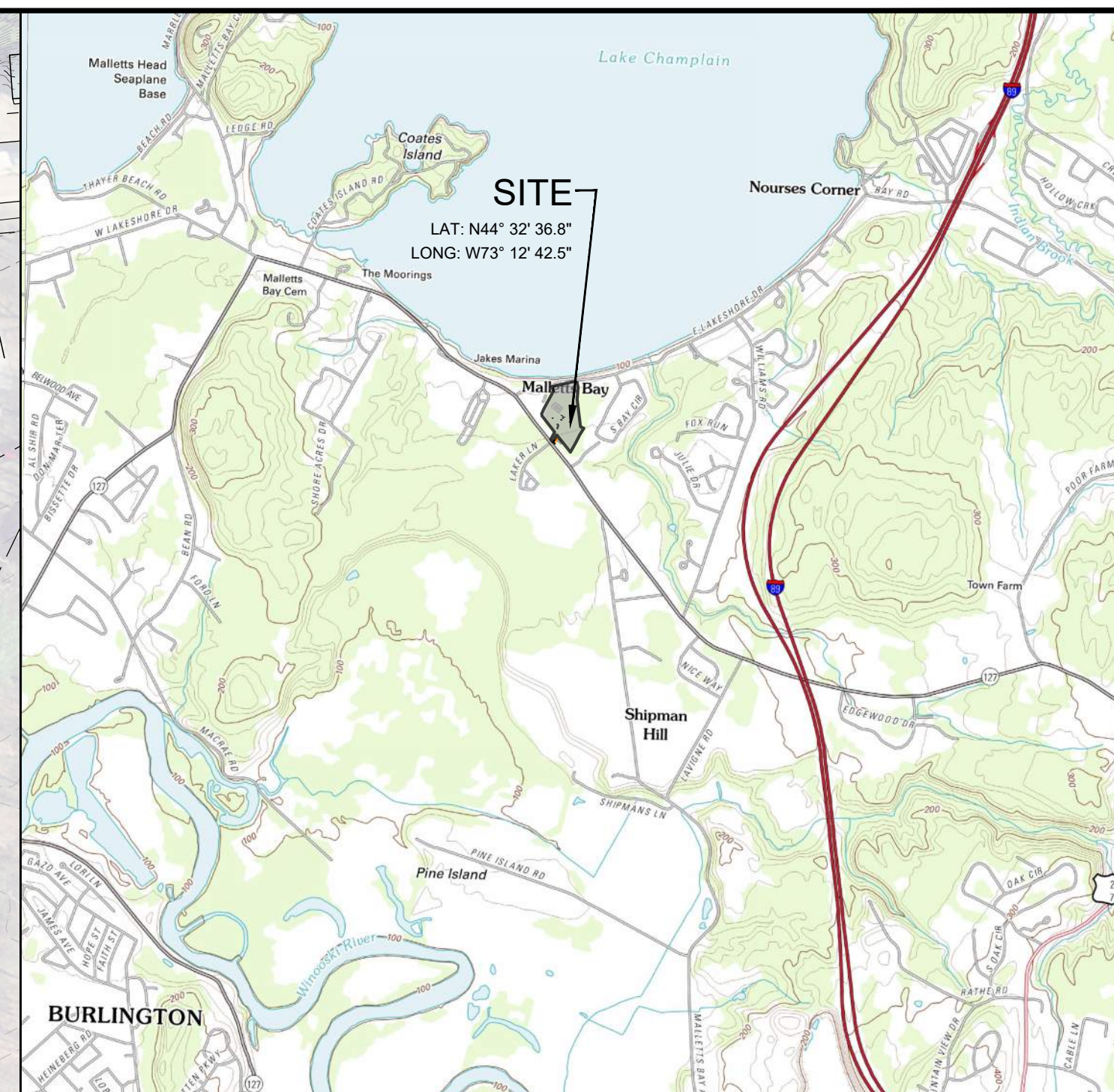
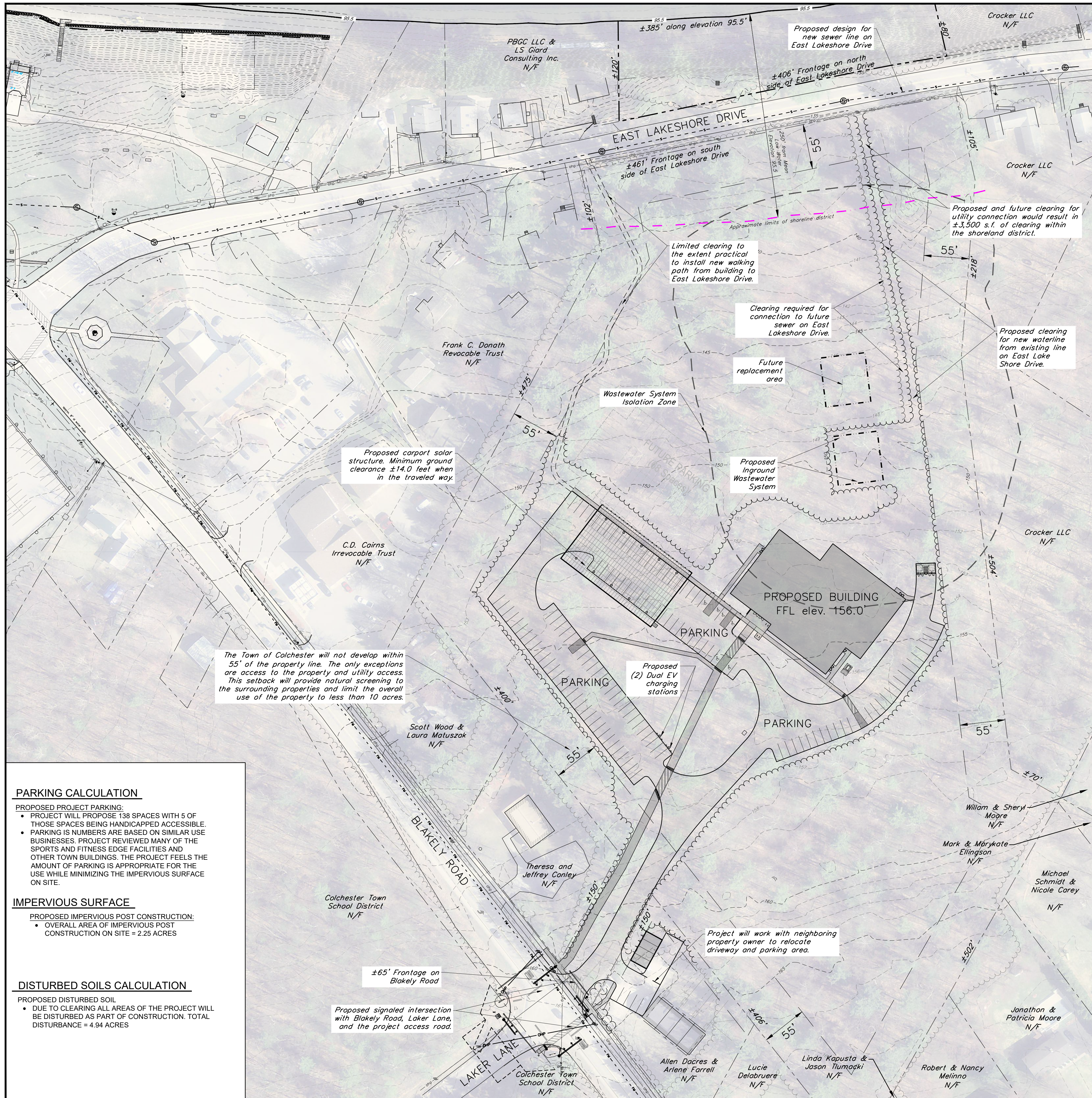
Greg Dixson, P.E.

Town of Colchester
Bayside Park Recreation Center
Blakely Road, Colchester, Vermont

66-021013-0000000	0 East Lakeshore Dr	Town of Colchester	781 Blakely Rd	Colchester	VT	05446
66-006013-0000000	0 East Lakeshore Dr	Town of Colchester	781 Blakely Rd	Colchester	VT	05446

Adjoining Landowners

Parcel Number	Property Address	Owner Name	Owner Address	Owner City	Owner State	Owner Zip
06-019012-0000000	51 Old Sawmill Rd	Robert S Melillo & Nancy J Melillo	51 Old Sawmill Rd	Colchester	VT	05446
06-019032-0000000	89 Old Sawmill Rd	Jonathan C Moore & Patricia K Moore	89 Old Sawmill Rd	Colchester	VT	05446
06-019052-0000000	113 Old Sawmill Rd	Michael K Schmidt & Nicole E Carey	113 Old Saw Mill Rd	Colchester	VT	05446
06-019072-0000000	244 South Bay Cir	Mark E Ellingson & Marykate W Ellingson	244 South Bay Cir	Colchester	VT	05446
06-020002-0000000	331 Blakely Rd	Linda J Kapusta & Jason Tlumacki	331 Blakely Rd B	Colchester	VT	05446
66-005003-0000000	137 East Lakeshore Dr	PBGC LLC	100 North St	Burlington	VT	05401
66-005003-0000000	145 East Lakeshore Dr	LS Giard Consulting Inc.	230 College St #6	Burlington	VT	05401
66-005003-0000000	145 East Lakeshore Dr	LS Giard Consulting Inc.	9401 Aspen Ridge Dr #323	Fort Worth	TX	76108
66-005003-0000000	145 East Lakeshore Dr	LS Giard Consulting Inc.	230 College St #6	Burlington	VT	05401
66-005003-0000000	145 East Lakeshore Dr	LS Giard Consulting Inc.	9401 Aspen Ridge Dr #323	Fort Worth	TX	76108
66-005003-0000000	161 East Lakeshore Dr	PBGC LLC	100 North St	Burlington	VT	05401
66-006003-0000000	0 East Lakeshore Dr	Crocker Revocable Living Trust	258 East Lakeshore Dr	Colchester	VT	05446
66-006013-0000000	0 East Lakeshore Dr	Town Of Colchester	Po Box 55	Colchester	VT	05446
66-021003-0000000	258 East Lakeshore Dr	Crocker Revocable Living Trust	258 East Lakeshore Dr	Colchester	VT	05446
66-022003-0000000	18 Ferndell Ln	Frank C Donath Revocable Trust	126 Dale Rd	Burlington	VT	05401
66-022022-0000000	133 Blakely Rd	C D Cairns Irrevocable Trust, c/o Michael & Bryan Cairns	45 San Remo Dr	So Burlington	VT	05403
66-023002-0000000	157 Blakely Rd	Scott A Wood & Laura M Matuszak	157 Blakely Rd	Colchester	VT	05446
66-024012-0000000	205 Blakely Rd	Theresa A Conley & Jeffrey E Conley	86 Lori Lane	Burlington	VT	05408
66-024022-0000000	303 Blakely Rd	Lucie Delabruere	70 So Winooski Ave	Burlington	VT	05401
66-033003-0000000	214 South Bay Cir	Willam A Moore and Sheryl H Moore Rev. Trust	214 South Bay Cir	Colchester	VT	05446
06-021002-0000000	0 Malletts Bay Ave	Colchester Town School District	PO Box 27	Colchester	VT	05446
66-024032-0000000	243 Blakely Rd #1	Allen M Dacres	PO Box 761	Colchester	VT	05446
66-024042-0000000	243 Blakely Rd #2	Allen M Dacres	PO Box 761	Colchester	VT	05446
66-024052-0000000	243 Blakely Rd #3	Arlene J Farrell	243 Blakely Rd Unit 3	Colchester	VT	05446
66-024062-0000000	243 Blakely Rd #4	Allen M Dacres	PO Box 761	Colchester	VT	05446



PLAN NOTES:

- THIS PLAN IS NOT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE BASED ON TAX MAPPING AND ARE CONSIDERED APPROXIMATE.
- THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE UTILITIES LOCATED DURING A TOPOGRAPHIC SURVEY PERFORMED BY KREBS & LANSING IN APRIL THROUGH JUNE 2017 AND OCTOBER 2018. UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT WARRANTED TO BE EXACT OR COMPLETE. DIG SAFE SHALL BE CONTACTED PRIOR TO ANY EXCAVATION.
- ELEVATIONS ARE BASED ON THE NAVD 88 (GEOID 12A) VERTICAL DATUM.
- PROJECT HORIZONTAL COORDINATES DERIVED FROM GPS OBSERVATION USING REFERENCE FRAME NAD83 (2011) 2010.00 EPOCH.
- AERIAL PHOTOGRAPHY IS BASED ON INFORMATION PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION, 2013 FLIGHT.

REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions for WW Comments	01/16/23
2.	Revisions for Arch. and Landscape	01/30/23
3.	Revisions to address staff comments	02/03/23

DRAWING TITLE:

OVERALL SITE PLAN

DATE ISSUED: 12/23/22
DRAWN BY: GTD
PROJECT NO.: 21155
DRAWING NO.: C-1.00
CHECKED BY: GTD
SCALE: 1" = 60'
REV. NO.:

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont

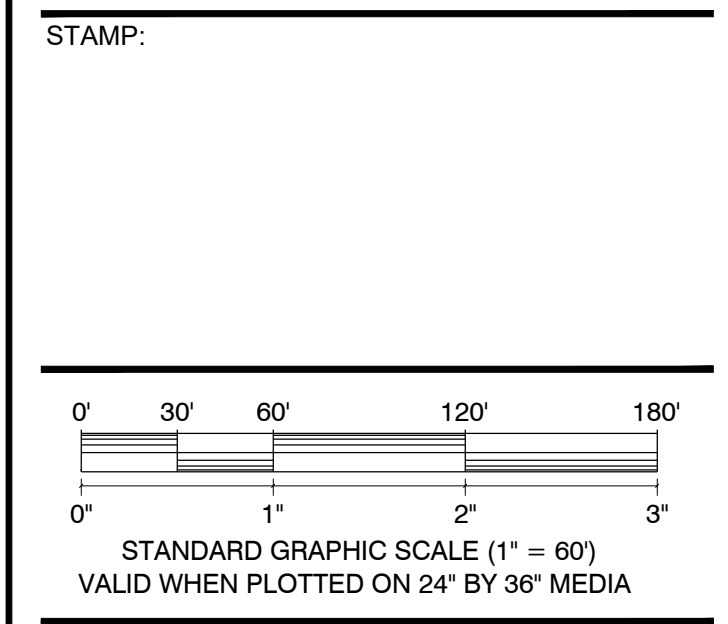
Wiemann Lamphere ARCHITECTS
Wiemann Lamphere Architects
525 Hercules Drive
Colchester, Vermont 05446
www.wiemannlamphere.com

KREBS & LANSING CONSULTING ENGINEERS
164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ±13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%



PARKING CALCULATION

PROPOSED PROJECT PARKING:

- PROJECT WILL PROPOSE 138 SPACES WITH 5 OF THOSE SPACES BEING HANDICAPPED ACCESSIBLE.
- PARKING IS NUMBERS ARE BASED ON SIMILAR USE BUSINESSES. PROJECT REVIEWED MANY OF THE SPORTS AND FITNESS EDGE FACILITIES AND OTHER TOWN BUILDINGS. THE PROJECT FEELS THE AMOUNT OF PARKING IS APPROPRIATE FOR THE USE WHILE MINIMIZING THE IMPERVIOUS SURFACE ON SITE.

IMPERVIOUS SURFACE

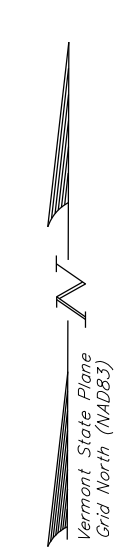
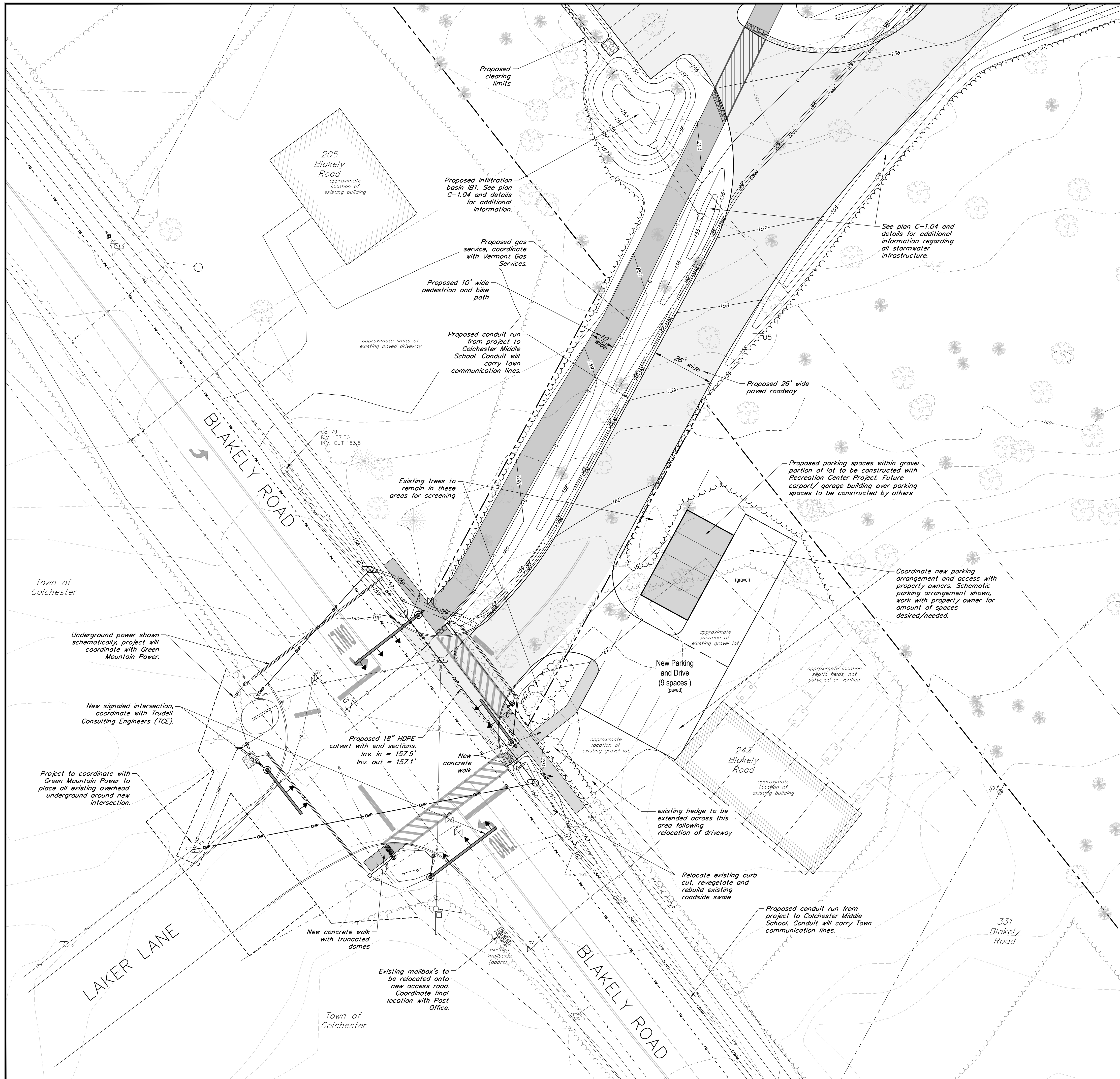
PROPOSED IMPERVIOUS POST CONSTRUCTION:

- OVERALL AREA OF IMPERVIOUS POST CONSTRUCTION ON SITE = 2.25 ACRES








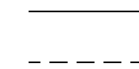

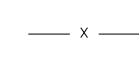
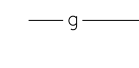
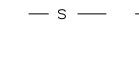
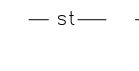
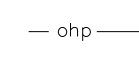
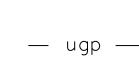
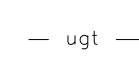



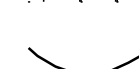


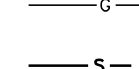
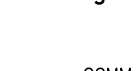
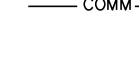
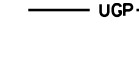
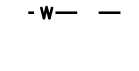
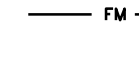
DISTURBED SOILS CALCULATION

PROPOSED DISTURBED SOIL:

- DUE TO CLEARING ALL AREAS OF THE PROJECT WILL BE DISTURBED AS PART OF CONSTRUCTION. TOTAL DISTURBANCE = 4.94 ACRES



LEGEND

-  IRON PIPE / CONCRETE MONUMENT FOUND
-  SURVEY CONTROL POINT
-  EXISTING SIGN
-  EXISTING OVERHEAD LIGHT
-  EXISTING TREELINE
-  EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)
-  EXISTING GRADE CONTOUR LINES (1 FOOT INTERVALS)
-  APPROXIMATE PROPERTY LINES
-  APPROXIMATE EASEMENTS
-  SETBACKS
-  EXISTING WIRE FENCE
-  EXISTING GAS LINE/VALVE
-  EXISTING SEWER LINE/MANHOLE
-  EXISTING STORM LINE/MANHOLE/BASIN
-  EXISTING OVERHEAD ELECTRIC LINE/POWER POLE
-  EXISTING UNDERGROUND POWER
-  EXISTING UNDERGROUND COMMUNICATIONS/MANHOLE/PEDESTAL
-  EXISTING WATER LINE/MANHOLE/VALVE/SHUTOFF
-  PRECONSTRUCTION EXCAVATION
-  PROPOSED TREELINE
-  PROPOSED GRADE CONTOUR LINES (5 FOOT INTERVALS)
-  PROPOSED GRADE CONTOUR LINES (1 FOOT INTERVALS)
-  PROPOSED GAS LINE/VALVE
-  PROPOSED SEWER LINE/MANHOLE
-  PROPOSED UNDERGROUND COMMUNICATIONS
-  PROPOSED UNDERGROUND POWER
-  PROPOSED WATER LINE/MANHOLE/VALVE/SHUTOFF
-  PROPOSED FORCE MAIN

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



Wiemann Lamphere Architects
525 Hercules Drive
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www.wiemannlamphere.com



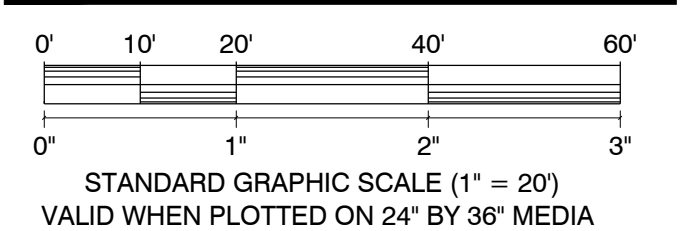
164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

**ISSUED FOR PERMIT REVIEW
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OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ±13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:



REV. NO.	REVISIONS/COMMENTS	DATE
2.	Revisions for Arch. and Landscape	01/30/23
3.	Revisions to address staff comments	02/03/23

DRAWING TITLE:

ENTRANCE DETAIL PLAN

DATE ISSUED: 12/23/22
DRAWN BY: GTD CHECKED BY: GTD

PROJECT NO.: 21155 SCALE: 1" = 20'

DRAWING NO.: REV. NO.:

C-1.01

PLAN NOTES:

1. THIS PLAN IS NOT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE BASED ON TAX MAPPING AND ARE CONSIDERED APPROXIMATE.
2. THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE UTILITIES LOCATED DURING A TOPOGRAPHIC SURVEY PERFORMED BY KREBS & LANSING IN APRIL THROUGH JUNE 2017 AND OCTOBER 2018. UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT WARRANTED TO BE EXACT OR COMPLETE. DIG SAFE SHALL BE CONTACTED PRIOR TO ANY EXCAVATION.
3. ELEVATIONS ARE BASED ON THE NAVD 88 (GEOID 12A) VERTICAL DATUM.
4. PROJECT HORIZONTAL COORDINATES DERIVED FROM GPS OBSERVATION USING REFERENCE FRAME NAD83 (2011) 2010.00 EPOCH.
5. AERIAL PHOTOGRAPHY IS BASED ON INFORMATION PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION, 2013 FLIGHT.



LEGEND

	IRON PIPE / CONCRETE MONUMENT FOUND
	SURVEY CONTROL POINT
	EXISTING SIGN
	EXISTING OVERHEAD LIGHT
	EXISTING TREELINE
	EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)
	EXISTING GRADE CONTOUR LINES (1 FOOT INTERVALS)
	APPROXIMATE PROPERTY LINES
	APPROXIMATE EASEMENTS
	SETBACKS
	EXISTING WIRE FENCE
	EXISTING GAS LINE/VALVE
	EXISTING SEWER LINE/MANHOLE
	EXISTING STORM LINE/MANHOLE/BASIN
	EXISTING OVERHEAD ELECTRIC LINE/POWER POLE
	EXISTING UNDERGROUND POWER
	EXISTING UNDERGROUND COMMUNICATIONS/MANHOLE /PEDESTAL
	EXISTING WATER LINE/HYDRANT/VALVE/SHUTOFF
	PRECONSTRUCTION EXCAVATION
	PROPOSED TREELINE
	PROPOSED GRADE CONTOUR LINES (5 FOOT INTERVALS)
	PROPOSED GRADE CONTOUR LINES (1 FOOT INTERVALS)
	PROPOSED GAS LINE/VALVE
	PROPOSED SEWER LINE/MANHOLE
	PROPOSED UNDERGROUND COMMUNICATIONS
	PROPOSED UNDERGROUND POWER
	PROPOSED WATER LINE/HYDRANT/VALVE/SHUTOFF
	PROPOSED FORCE MAIN

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REVISIONS/COMMENTS

REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions for WW Comments	01/16/23
2.	Revisions for Arch. and Landscape	01/30/23
3.	Revisions to address staff comments	02/03/23

STANDARD GRAPHIC SCALE (1" = 30')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

DATE ISSUED: 12/23/22
DRAWN BY: GTD
CHECKED BY: GTD
PROJECT NO.: 21155
SCALE: 1" = 30'
DRAWING NO.: C-1.02
REV. NO.:

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont

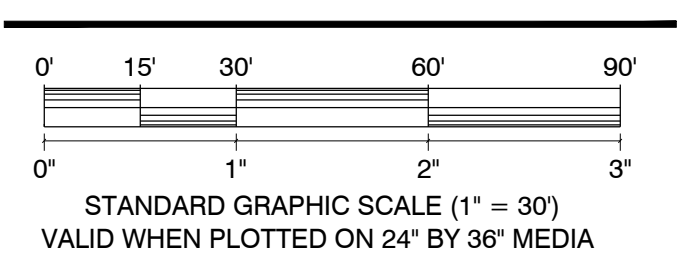


**ISSUED FOR PERMIT REVIEW
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OWNER AND APPLICANT:
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P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
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SPAN: 153-048-16909
Acreage: ±13.3 Acres
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Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:



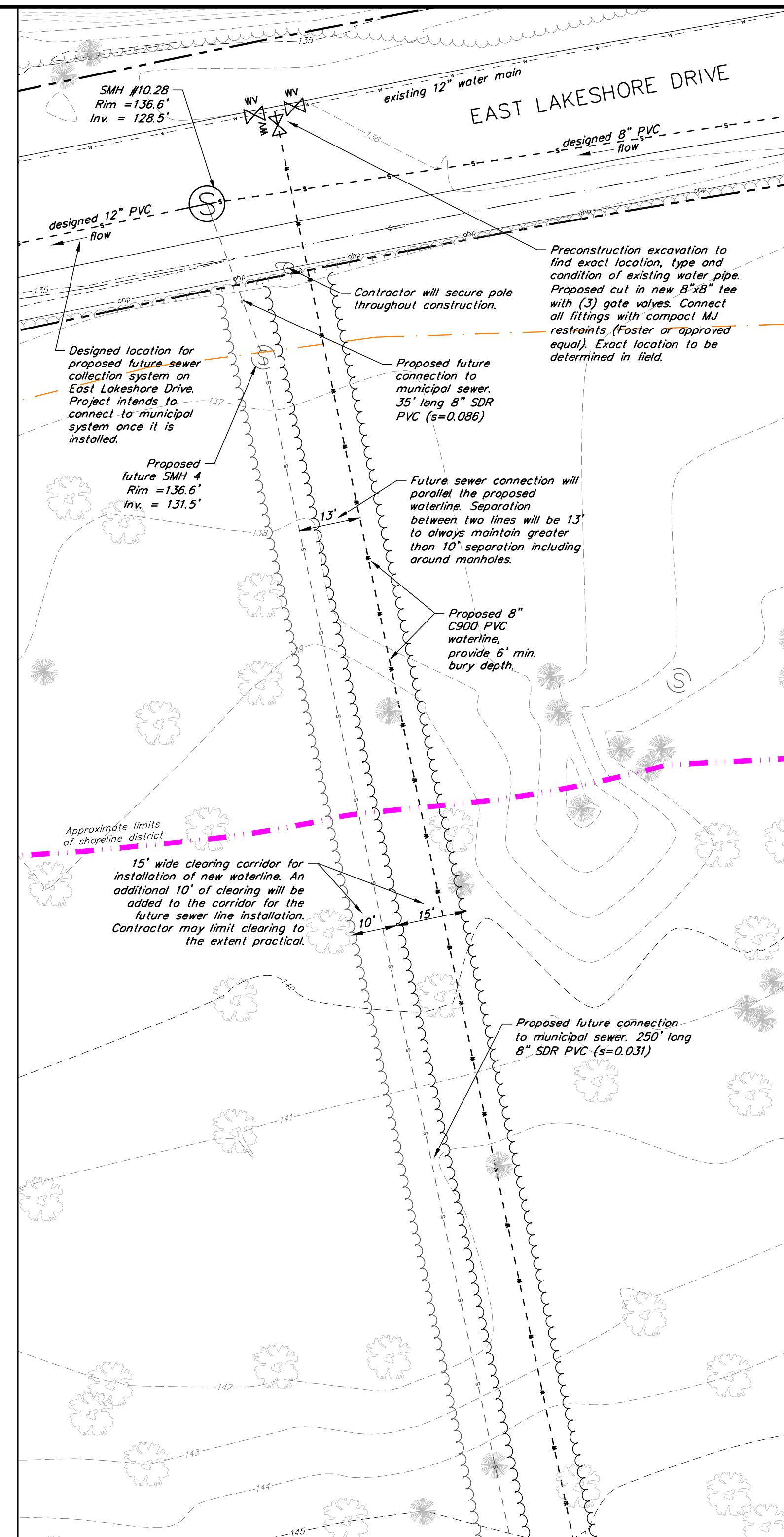
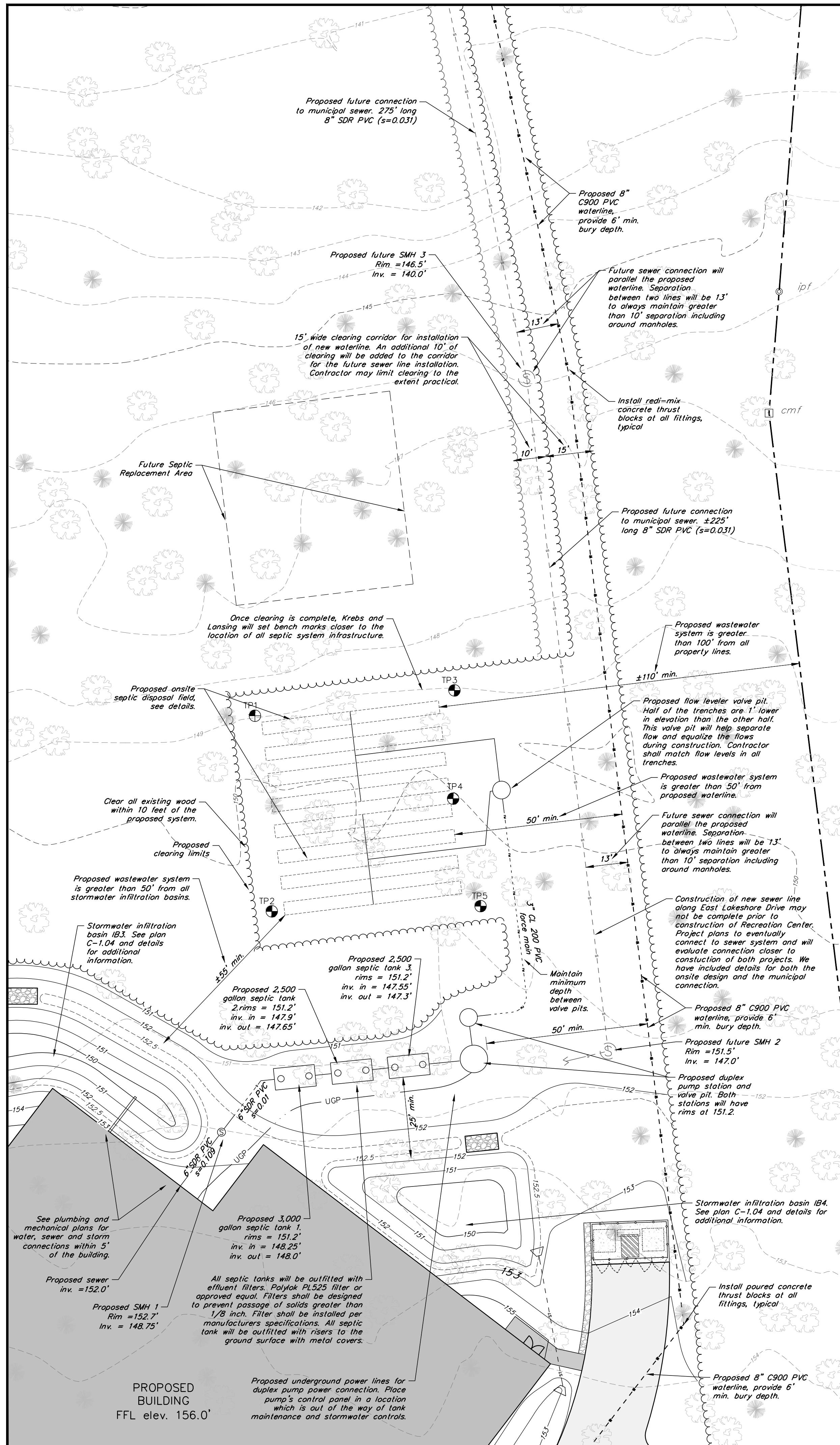
REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions for WW Comments	01/16/23
2.	Revisions for Arch. and Landscape	01/30/23
3.	Revisions to address staff comments	02/03/23

DRAWING TITLE:

DETAILED SITE PLAN

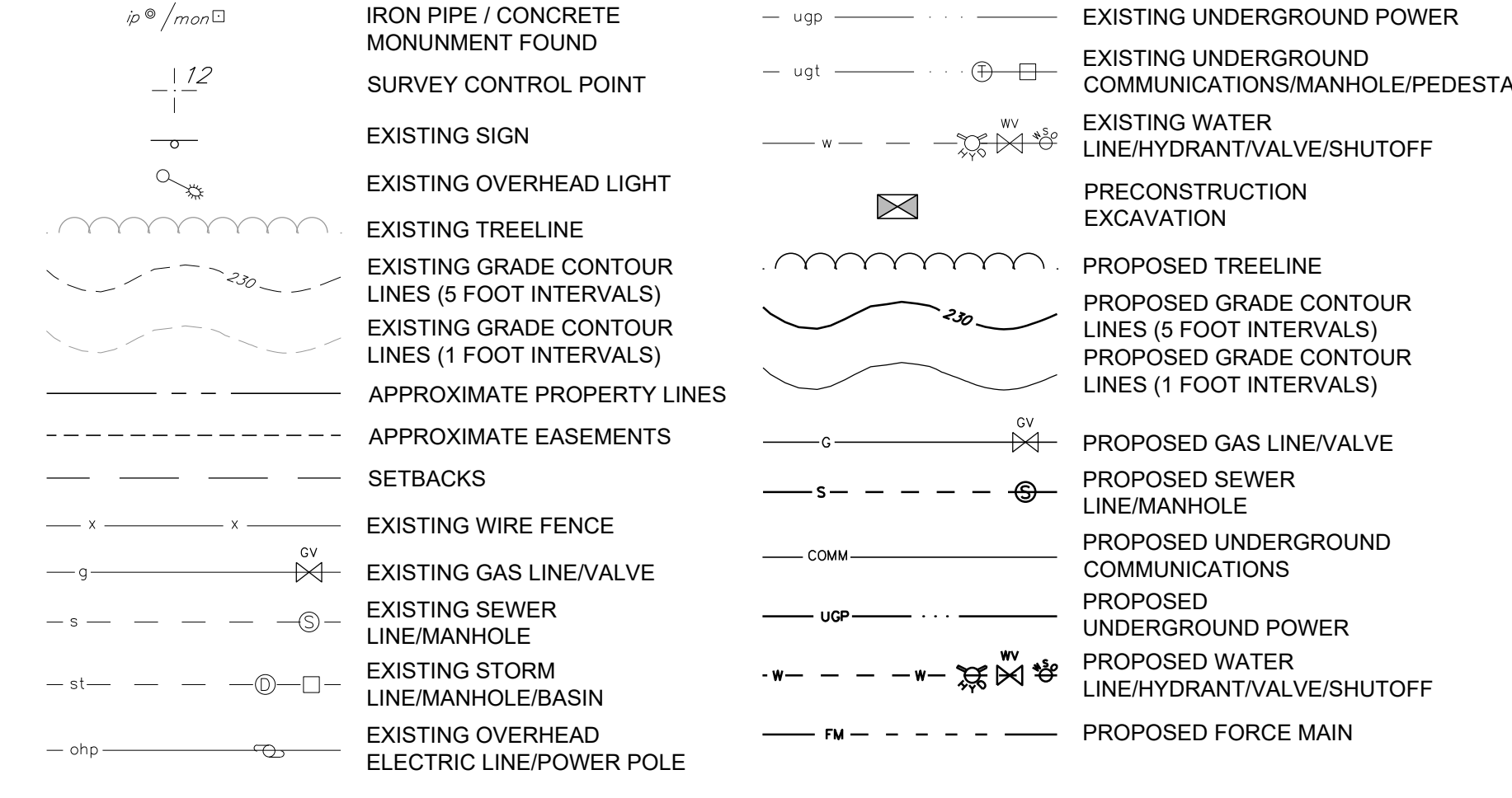
C-1.02

DWG NAME: Colchester-Bayside-Park-Base.dwg



- PLAN NOTES:**
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 - AERIAL PHOTOGRAPHY IS BASED ON INFORMATION PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION, 2013 FLIGHT.

LEGEND



TEST PITS:

- DATE: SEPTEMBER 8, 2022
 WEATHER: 75°F SUNNY
 PRESENT: CAM GOODRICH, GREG DIXSON, & JAY RENSHAW (K&L)
 BRETT MCCREARY - TOWN OF COLCHESTER
- TP-1
 0' - 4' 10YR 3/3 DARK BROWN, LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, HEAVY ROOT DENSITY
 4' - 30' 10YR 4/6 DARK YELLOW BROWN, SINGLE GRAIN, STRUCTURELESS, LOAMY SAND, ROOTS, FEW ROUNDED COARSE FRAGMENTS, EXTREMELY GRAVELLY, LOOSE, DRY, WAVING BOUNDARY WESTERLY
 30' - 34' 5YR 5/6 YELLOWISH RED, CLEAR OXIDATION, CONCENTRATION MODELS, LOAMY SAND, GRANULAR, FINE GRAVELLY, ROUND COARSE FRAGMENTS, DRY, STRUCTURELESS, ROOTS
 34' - 96' 10YR 5/4 YELLOW BROWN, GRANULAR, ROOTS, STRUCTURELESS, VERY GRAVELLY SAND, LOOSE, DRY, ROUNDED COARSE FRAGMENTS
 NLTD - NO LEDGE TO DEPTH
 NWTD - NO WATER TO DEPTH
- TP-2
 0' - 5' 10YR 3/3 DARK BROWN, LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, HEAVY ROOT DENSITY
 5' - 32' 10YR 4/6 DARK YELLOW BROWN, GRANULAR, STRUCTURELESS, LOAMY SAND, ROOTS, ROUNDED COARSE FRAGMENTS, FINE GRAVELLY, LOOSE, DRY
 32' - 46' 10YR 4/6 DARK YELLOW BROWN, GRANULAR, STRUCTURELESS, LOAMY SAND, ROOTS, ROUNDED COARSE FRAGMENTS, EXTREMELY GRAVELLY, LOOSE, DRY
 46' - 54' 10YR 5/4 YELLOW BROWN, SAND, GRANULAR, ROOTS, STRUCTURELESS, MEDIUM GRAVELLY, LOOSE, DRY
 54' - 58' 5YR 5/6 YELLOWISH RED, CLEAR OXIDATION, CONCENTRATION MODELS, LOAMY SAND, GRANULAR, FINE GRAVELLY, ROUND COARSE FRAGMENTS, DRY, STRUCTURELESS, ROOTS
 58' - 102' 10YR 4/6 DARK YELLOWISH BROWN, SOFT, SINGLE GRAIN, LOAMY SAND, CLEAN, DRY, FOOT, NO COARSE FRAGMENTS
 NLTD, NWTD
- TP-3
 0' - 6' 10YR 3/3 DARK BROWN LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, ROOTS
 6' - 24' 10YR 5/6 YELLOWISH BROWN LOAMY SAND, SINGLE GRAIN, LOOSE HIGH ROOT DENSITY
 24' - 80' 10YR 5/2 GRAYISH BROWN, SALT AND PEPPER SAND, COARSE, 20% GRAVEL, STRUCTURELESS, FEW ROOTS
 NLTD, NWTD
- TP-3
 0' - 5' 10YR 3/3 DARK BROWN, LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, HEAVY ROOT DENSITY
 5' - 14' 10YR 4/6 DARK YELLOW BROWN, SINGLE GRAIN, STRUCTURELESS, LOAMY SAND, ROOTS, FEW ROUNDED COARSE FRAGMENTS, GRAVELLY, LOOSE, DRY
 14' - 23' 10YR 4/6 DARK YELLOW BROWN, GRANULAR, STRUCTURELESS, LOAMY SAND, ROOTS, ROUNDED COARSE FRAGMENTS, VERY GRAVELLY, LOOSE, DRY
 23' - 39' 10YR 5/4 YELLOW BROWN, EXTREMELY GRAVELLY, COARSE GRAVEL, POCKETS OF FINE SAND, ROUND PEBBLES, DRY, LARGER COARSE FRAGMENTS
 39' - 82' 10YR 5/4 YELLOW BROWN, GRANULAR, ROOTS, STRUCTURELESS, VERY GRAVELLY SAND, LOOSE, DRY, ROUNDED COARSE FRAGMENTS, DECAYED ROCKS
 NLTD, NWTD
- TP-4
 0' - 4' 10YR 3/3 DARK BROWN, LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, HEAVY ROOT DENSITY
 4' - 24' 10YR 4/6 DARK YELLOW BROWN, GRANULAR, STRUCTURELESS, LOAMY SAND, ROOTS, ROUNDED COARSE FRAGMENTS, MEDIUM GRAVELLY, LOOSE, DRY
 24' - 36' 10YR 4/3 BROWN, MEDIUM GRAVELLY, SAND, STRUCTURELESS, WAVING BOUNDARY, ROOTS, DRY
 36' - 84' 10YR 5/4 YELLOW BROWN, GRANULAR, ROOTS, STRUCTURELESS, VERY GRAVELLY SAND, LOOSE, DRY, ROUNDED COARSE FRAGMENTS
 NLTD, NWTD
- TP-5
 0' - 5' 10YR 3/3 DARK BROWN, LOAMY SAND, GRANULAR STRUCTURE, LOOSE, DRY, HEAVY ROOT DENSITY
 5' - 26' 10YR 4/6 DARK YELLOW BROWN, GRANULAR, STRUCTURELESS, LOAMY SAND, ROOTS, ROUNDED COARSE FRAGMENTS, MEDIUM GRAVELLY, LOOSE, DRY
 26' - 30' 5YR 5/6 YELLOWISH RED, CLEAR OXIDATION, CONCENTRATION MODELS, LOAMY SAND, GRANULAR, FINE GRAVELLY, ROUND COARSE FRAGMENTS, DRY, STRUCTURELESS, ROOTS
 30' - 46' 10YR 5/4 YELLOW BROWN, SAND, GRANULAR, ROOTS, STRUCTURELESS, MEDIUM GRAVELLY, LOOSE, DRY
 46' - 58' 10YR 4/4 DARK YELLOWISH BROWN, FINE SAND, CONCENTRATION MODELS, ROOTS, GRANULAR, LITTLE TO NO GRAVELS
 58' - 90' 10YR 5/4 YELLOW BROWN, SAND, GRANULAR, ROOTS, STRUCTURELESS, MEDIUM GRAVELLY, LOOSE, DRY
 90' - 94' 10YR 4/6 DARK YELLOWISH BROWN, SOFT, SINGLE GRAIN, LOAMY SAND, CLEAN, DRY, FOOT, NO COARSE FRAGMENTS
 94' - 100' 10YR 5/4 YELLOW BROWN, SAND, GRANULAR, ROOTS, STRUCTURELESS, MEDIUM GRAVELLY, LOOSE, DRY
 NLTD, NWTD

DETERMINATION OF ORDINARY HIGH SEASONAL WATER (OHSW):

FIVE TEST PITS WERE CONDUCTED IN THE LOCATION OF THE PROPOSED SYSTEM, NO EVIDENCE OF ORDINARY HIGH SEASONAL WATER TABLE (OHSW) WAS OBSERVED. TEST PIT #2 WAS EXCAVATED TO A TOTAL DEPTH OF 102' (ELEV. 141.7'). THE PROJECT ALSO PERFORMED SOIL TESTING FOR STRUCTURAL INTEGRITY IN AUGUST OF 2021, THIS INCLUDED MULTIPLE BORINGS TO A DEPTH OF MORE THAN 25 FEET. ONE OF THOSE BORES HAD WATER AT 26' DEEP, ELEVATION ±128'. TO BE CONSERVATIVE, WE WILL ASSIGN THE OHSW DEPTH AT THE ELEVATION OF THE DEEPEST DUG TEST PIT, ELEVATION 141.7'.

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER
 Blakely Road
 Colchester, Vermont

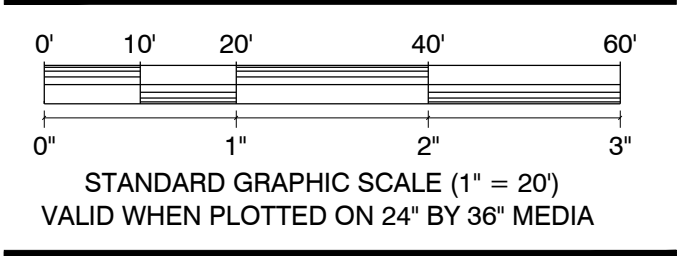


ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
 Town of Colchester
 P.O. Box 65
 Colchester, Vermont 05446

PROPERTY INFORMATION:
 Address: Blakely Road and East Lakeshore Drive
 Parcel ID: 66-021013-000000
 SPAN: 153-048-16909
 Acreage: ±13.3 Acres
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 Side Yard Building Setback: 15'
 Maximum Total Lot Coverage: 30%

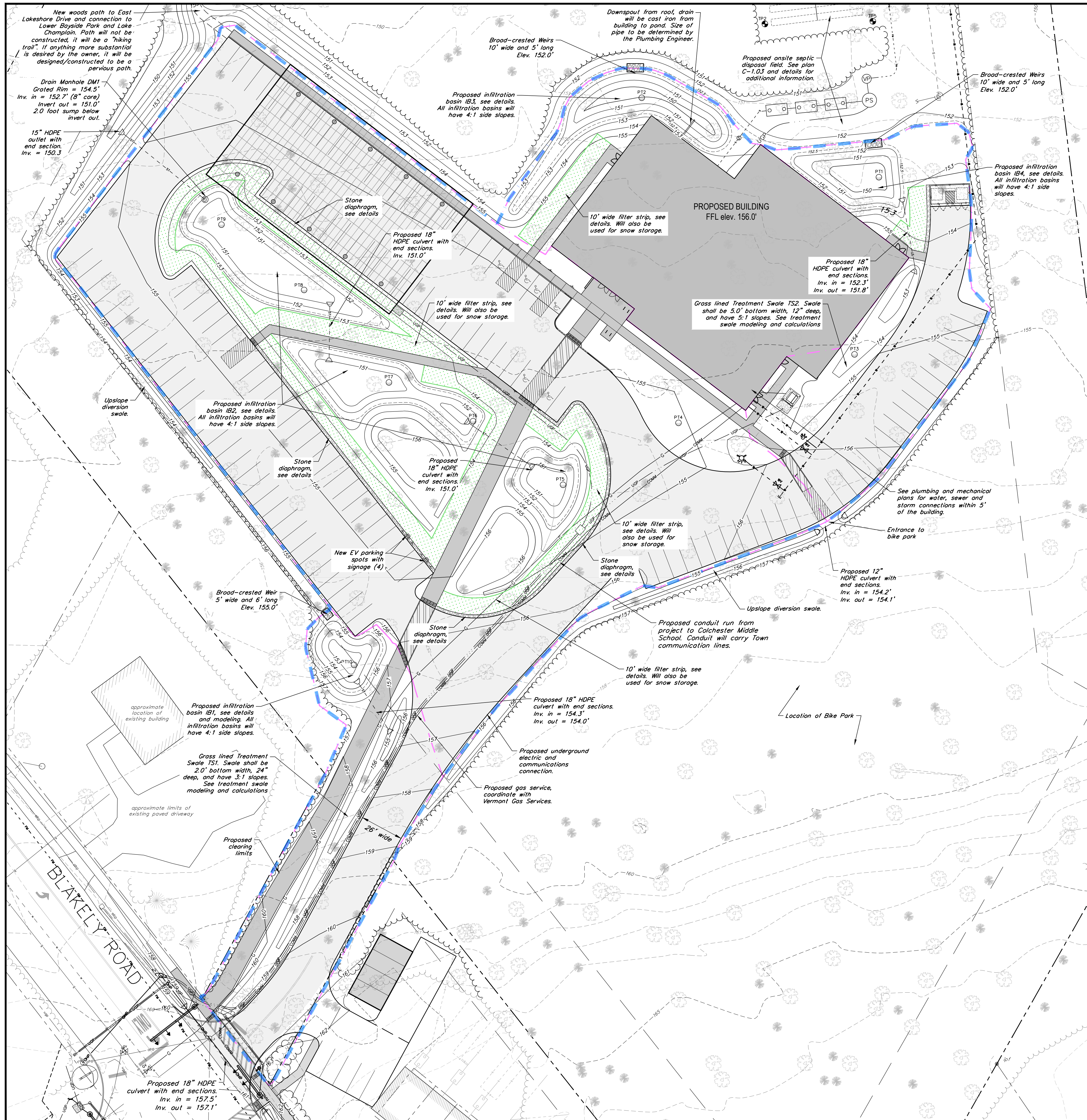
STAMP:



REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions for WW Comments	01/16/23
2.	Revisions for Arch. and Landscape	01/30/23
3.	Revisions to address staff comments	02/03/23

DRAWING TITLE:
DETAILED WASTEWATER PLAN

DATE ISSUED: 12/23/22
 DRAWN BY: GTD CHECKED BY: GTD
 PROJECT NO.: 21155 SCALE: 1" = 20'
 DRAWING NO.: **C-1.03** REV. NO.:



DETERMINATION OF ORDINARY HIGH SEASONAL WATER (OHSW):

FIVE TEST PITS WERE CONDUCTED IN THE LOCATION OF THE PROPOSED SYSTEM, NO EVIDENCE OF ORDINARY HIGH SEASONAL WATER TABLE (OHSW) WAS OBSERVED. TEST PIT #2 WAS EXCAVATED TO A TOTAL DEPTH OF 102" (ELEV. 141.7'). THE PROJECT ALSO PERFORMED SOIL TESTING FOR STRUCTURAL INTEGRITY IN AUGUST OF 2021. THIS INCLUDED MULTIPLE BORINGS TO A DEPTH OF MORE THAN 25 FEET. ONE OF THOSE BORES HAD WATER AT 26' DEEP. ELEVATION ±128'. TO BE CONSERVATIVE, WE WILL ASSIGN THE OHSW DEPTH AT THE ELEVATION OF THE DEEPEST DUG TEST PIT, ELEVATION 141.7'.

LEGEND

- IRON PIPE / CONCRETE MONUMENT FOUND
- SURVEY CONTROL POINT
- EXISTING SIGN
- EXISTING OVERHEAD LIGHT
- EXISTING TREELINE
- EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)
- EXISTING GRADE CONTOUR LINES (1 FOOT INTERVALS)
- APPROXIMATE PROPERTY LINES
- APPROXIMATE EASEMENTS SETBACKS
- EXISTING WIRE FENCE
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- EXISTING STORM LINE/MANHOLE/BASIN
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- EXISTING UNDERGROUND POWER
- EXISTING UNDERGROUND COMMUNICATIONS/MANHOLE /PEDESTAL
- EXISTING WATER LINE/HYDRANT/VALVE/SHUTOFF
- PRECONSTRUCTION EXCAVATION
- PROPOSED TREELINE
- PROPOSED GRADE CONTOUR LINES (5 FOOT INTERVALS)
- PROPOSED GRADE CONTOUR LINES (1 FOOT INTERVALS)
- PROPOSED GAS LINE/VALVE
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- PROPOSED UNDERGROUND COMMUNICATIONS
- PROPOSED UNDERGROUND POWER
- PROPOSED WATER LINE/HYDRANT/VALVE/SHUTOFF
- PROPOSED FORCE MAIN

PERCOLATION RATES:

- PERMEABILITY TESTS:**
- PT#1 = 36.0 in/hr
 - PT#2 = 23.0 in/hr
 - PT#3 = 72.0 in/hr
 - PT#4 = 37.9 in/hr
 - PT#5 = 41.1 in/hr
 - PT#6 = 96.0 in/hr
 - PT#7 = 48.0 in/hr
 - PT#8 = 60.0 in/hr
 - PT#9 = 42.4 in/hr
 - PT#10 = 36.0 in/hr
- AVERAGE = 49.24 in/hr
FOR MODELING PURPOSES THE INFILTRATION RATE USED WAS HALF THAT VALUE = 24.6 in/hr

PLAN NOTES:

1. THIS PLAN IS NOT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE BASED ON TAX MAPPING AND ARE CONSIDERED APPROXIMATE.
2. THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE UTILITIES LOCATED DURING A TOPOGRAPHIC SURVEY PERFORMED BY KREBS & LANSING IN APRIL THROUGH JUNE 2017 AND OCTOBER 2018. UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT WARRANTED TO BE EXACT OR COMPLETE. DIG SAFE SHALL BE CONTACTED PRIOR TO ANY EXCAVATION.
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5. AERIAL PHOTOGRAPHY IS BASED ON INFORMATION PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION, 2013 FLIGHT.

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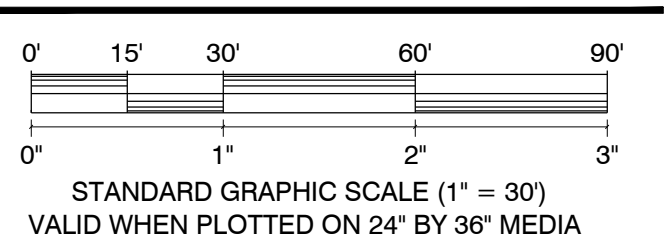
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Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:



REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions to address staff comments	02/03/23

DRAWING TITLE:

DETAILED STORMWATER SITE PLAN

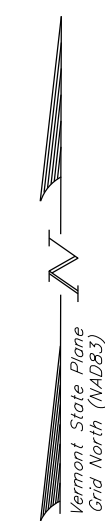
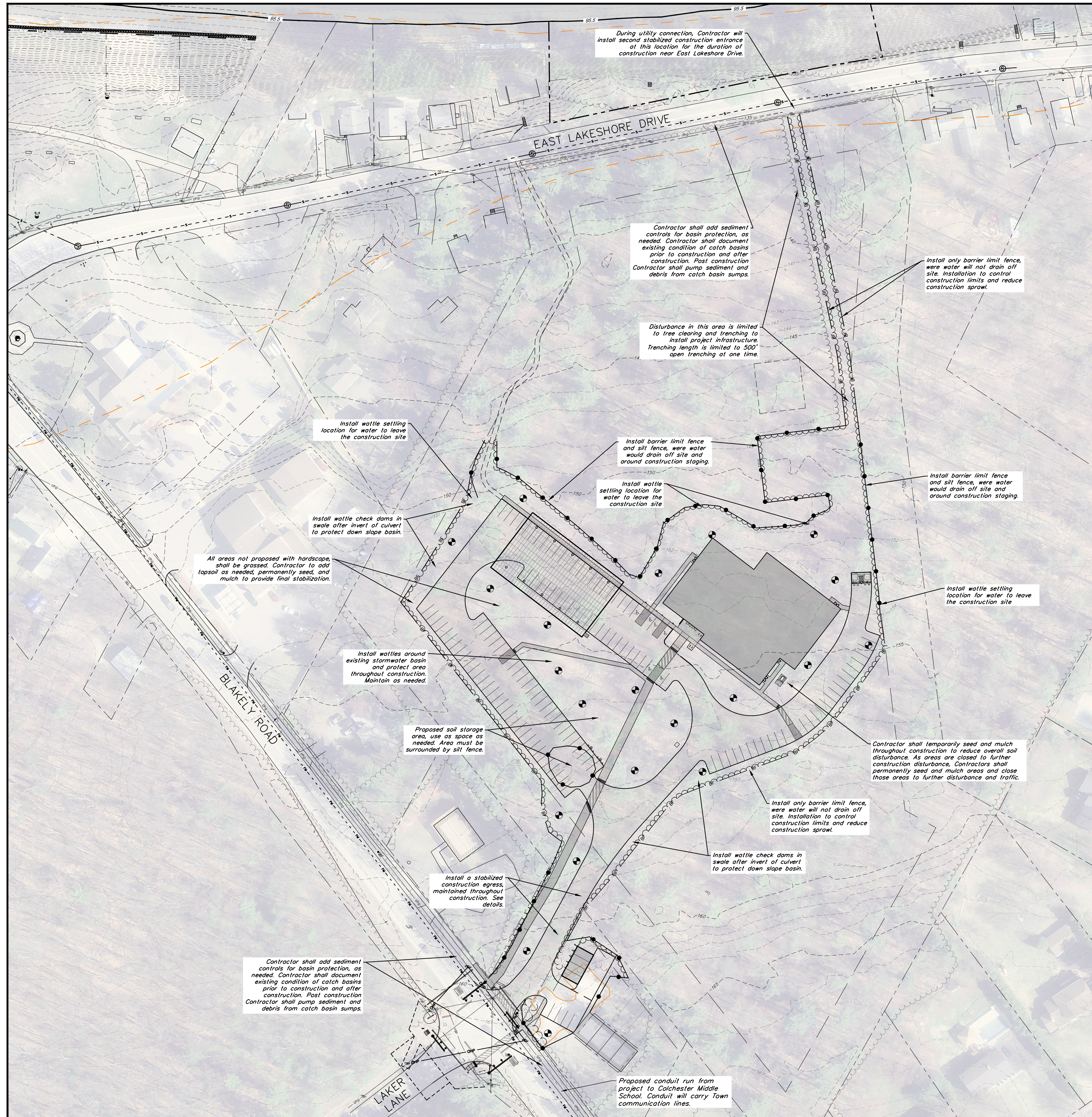
DATE ISSUED: 12/23/22

DRAWN BY: GTD CHECKED BY: GTD

PROJECT NO.: 21155 SCALE: 1" = 30'

DRAWING NO.: REV. NO.:

C-1.04



LEGEND

- EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)
- EXISTING GRADE CONTOUR LINES (1 FOOT INTERVALS)
- APPROXIMATE PROPERTY LINES
- APPROXIMATE EASEMENTS
- APPROXIMATE LIMITS OF DISTURBANCE (LOD)
- POST-CONSTRUCTION SOIL DEPTH & QUALITY STANDARD VERIFICATION TEST PIT.
- PROPOSED EROSION PREVENTION AND SEDIMENT CONTROL SILT FENCE PERIMETER CONTROLS AND CONSTRUCTION LIMIT BARRIER FENCE
- AREAS WHERE WATER DOES NOT FLOW OFFSITE NEED ONLY CONSTRUCTION LIMIT BARRIER FENCE

DISTURBED SOILS CALCULATION

- PROPOSED DISTURBED SOIL
- DISTURBANCES FOR CONSTRUCTION PROPOSED DIRECT EXCAVATION WORK. SHOWN IN LIGHT BROWN ON PLAN = ±210,000 S.F.
- MISC. CONSTRUCTION DISTURBANCE FROM WORKING ON PROJECT = ±5,000 S.F.
- TOTAL DISTURBANCE = ±215,000 S.F. (±4.94 ACRES)

RESTORATION NOTES:

1. SEE POST-CONSTRUCTION SOIL DEPTH AND QUALITY NOTES AND ADDITIONAL SOIL RESTORATION NOTES ON DETAIL PAGE C-2.02.
2. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING, DOCUMENTATION, REPORTING, ETC. OUTLINED WITHIN THE NOTES ON C-2.02. FOR BOTH THE PRE-CONSTRUCTION AND POST-CONSTRUCTION CONDITIONS OF THE SOILS. CONTRACTOR TO PROVIDE ALL THE INFORMATION TO THE OWNER AND THE ENGINEER.

PLAN NOTES:

1. THIS PLAN IS NOT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE BASED ON TAX MAPPING AND ARE CONSIDERED APPROXIMATE.
2. THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE UTILITIES LOCATED DURING A TOPOGRAPHIC SURVEY PERFORMED BY KREBS & LANSING IN APRIL THROUGH JUNE 2017 AND OCTOBER 2018. UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT WARRANTED TO BE EXACT OR COMPLETE. DIG SAFE SHALL BE CONTACTED PRIOR TO ANY EXCAVATION.
3. ELEVATIONS ARE BASED ON THE NAVD 88 (GEOID 12A) VERTICAL DATUM.
4. PROJECT HORIZONTAL COORDINATES DERIVED FROM GPS OBSERVATION USING REFERENCE FRAME NAD83 (2011) 2010.00 EPOCH.
5. AERIAL PHOTOGRAPHY IS BASED ON INFORMATION PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION, 2013 FLIGHT.

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



Wiemann Lamphere Architects
525 Hercules Drive
Colchester, Vermont 05446
www.wiemannlamphere.com



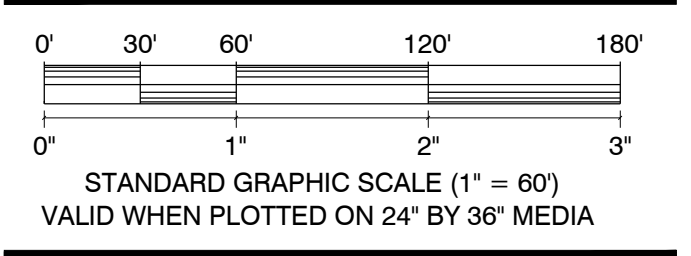
164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-0000000
SPAN: 153-048-16909
Acreage: ±13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:



REV. NO.	REVISIONS/COMMENTS	DATE
1.	Revisions to address staff comments	02/03/23

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

DATE ISSUED: 12/23/22
DRAWN BY: GTD
CHECKED BY: GTD
PROJECT NO.: 21155
SCALE: 1" = 60'
DRAWING NO.:
REV. NO.:

C-1.05

GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DISTURBED AREAS BACK TO ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO CURBING, SIDEWALKS, ROAD, PARKING AREAS, LANDSCAPING, SITE LIGHTING, ELECTRICAL, AND ETC. ALL ASPHALT SHALL BE SAW-CUT PRIOR TO PAVING.
- THE METHODS AND MATERIALS OF CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS OF THE STATE OF VERMONT AND TOWN OF COLCHESTER. ALL WORK SHALL BE IN CONFORMANCE WITH ALL PERMITS AND APPROVALS ISSUED FOR THE PROJECT. IN CASE OF CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY AS DIRECTED BY ENGINEER. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND COMPLETED IN THE TIME SPECIFIED BY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS SHOWN AND REQUIRED TO MAKE THE JOB COMPLETE. THESE DRAWINGS DO NOT SHOW EVERY FITTING OR APPURTENANCE. MATERIALS SHALL BE AS SPECIFIED ON THE DRAWINGS. MANUFACTURER'S PRODUCT SPECIFICATIONS SHALL BE SUBMITTED FOR ALL MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THE LOCATION AND SIZE OF EXISTING UNDERGROUND UTILITIES IS NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES AND SHALL CONTACT THE AFFECTED UTILITY COMPANY, THE ENGINEER AND THE MUNICIPALITY PRIOR TO MAKING ANY HOOK UPS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXISTING UTILITIES AND THEIR UNINTERRUPTED SERVICES. ALL OFF-SITE BACKFILL, SHEETING, SHORING, DEWATERING, CLEARING AND GRUBBING, EROSION CONTROL, DUST CONTROL, TRAFFIC CONTROL, GRADING, AND ALL INCIDENTALS SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
- THE CONTRACTOR SHALL VERIFY ALL TEMPORARY BENCH MARKS BEFORE USE.
- THE WORKMEN AND PUBLIC SHALL BE PROTECTED BY THE CONTRACTOR FROM ANY AND ALL HAZARDS CONNECTED WITH THE CONSTRUCTION WORK. OPEN TRENCHES, MATERIALS, OR EQUIPMENT WITHIN THE WORKING LIMITS ARE TO BE GUARDED BY THE USE OF ADEQUATE BARRICADES OR FLAGMEN. ALL BARRICADES LEFT IN POSITION OVERNIGHT ARE TO BE PROPERLY LIGHTED. KEROSENE POTS ARE NOT ACCEPTABLE. WHEN WORK NARROWS THE USABLE PAVEMENT, FLAGMEN SHALL BE EMPLOYED TO AID THE FLOW OF TRAFFIC SO THAT THERE WILL BE NO UNDUE DELAYS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE SAFETY OF ALL WORKMEN, THE GENERAL PUBLIC AND ALL DAMAGES TO PROPERTY OCCURRING FROM OR UPON THE WORK OCCASIONED BY NEGLIGENCE OR OTHERWISE GROWING OUT OF A FAILURE ON THE PART OF THE CONTRACTOR TO PROTECT PERSONS OR PROPERTY FROM HAZARDS OF OPEN TRENCHES, MATERIALS, OR EQUIPMENT AT ANY TIME OF THE DAY OR NIGHT WITHIN THE WORKING AREA. ALL WORK SHALL BE IN CONFORMANCE TO OSHA REGULATIONS, TITLE 19, PARTS 1926.651 AND 1926.652, AND APPLICABLE TO VOSHA REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL UTILITY INTERSECTIONS AND CONTACT ENGINEER AND OWNER WITH CONFLICTS.
- THE CONTRACTOR SHALL CALL, DIG SAFE PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL COORDINATE FINAL LOCATION AND INVERTS FOR WATER, SEWER, AND STORM BUILDING CONNECTIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, AND MECHANICAL ENGINEER.
- ALL STUMPS, ROCK, AND OTHER NON-APPROVED TRENCH BACKFILL MATERIAL DISCOVERED DURING CONSTRUCTION IS THE EXCLUSIVE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN A STATE APPROVED DISPOSAL LOCATION. ALL EXISTING SOILS REUSED FOR FILL SHALL CONFORM TO ALL APPLICABLE SECTIONS OF VTTRANS SPECIFICATIONS SECTION 203-EXCAVATION & EMBANKMENTS.CONTRACTOR SHALL REVIEW SOIL INVESTIGATION REPORT AND SOILS LOGS PRIOR TO BID. ANY SOIL REUSED AS FILL UNDER ROADS AND APPLICABLE CONCRETE SIDEWALKS SHALL PASS A SUBGRADE PROOF ROLL WITH A LOADED TANDEM. FILL SOILS THAT DO NOT PASS A SUBGRADE PROOF ROLL SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PASSING SIEVE, PROCTOR, AND COMPACTION TESTING EXPENSES SHALL BE PAID BY OWNER. TESTING COORDINATION, ALL OTHER REQUIRED TESTING, AND EXPENSES FOR FAILED TESTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL CONTACT THE GREEN MOUNTAIN POWER (GMP) PRIOR TO ANY WORK IN THE VICINITY OF THE EXISTING ELECTRIC CONDUITS.
- THIS PROJECT WILL REQUIRE COVERAGE UNDER AN STATE OF VERMONT GENERAL CONSTRUCTION STORMWATER DISCHARGE PERMIT. THE CONTRACTOR WILL FOLLOW THE PERMIT AS WELL AS THE RULES, REGULATIONS, AND DIRECTION OUTLINED IN THE STATE OF VERMONT "LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" FROM FEBRUARY 2020. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, MAINTAINING AND REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES SHOWN ON THE PLANS OR DETAILS AND, TO THE MAXIMUM EXTENT PRACTICAL, TO MINIMIZE POTENTIAL CONTAMINATION OF STORMWATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL "AS-BUILT" MEASUREMENT AND DRAFTING REQUIREMENTS AS OUTLINED ON THE DETAIL SHEETS. ALL TRENCH EXCAVATIONS SHALL REMAIN OPEN UNTIL ALL AS-BUILT SURVEY SHOTS HAVE BEEN TAKEN. PROGRESS RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AS INDICATED IN THE RECORD DRAWING SPECIFICATIONS.
- SEE EROSION CONTROL AND LOGISTICS PLANS FOR LOCATIONS OF STAGING / STORAGE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SIGNAGE AND CONSTRUCTION BARRIER/SAFETY FENCING NECESSARY FOR PROVIDING SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH OR AROUND THE SITE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE THIS WITH THE TOWN OF COLCHESTER AND THE TOWN'S DEPARTMENT OF PUBLIC WORKS.
- DEFINITION OF "PRECONSTRUCTION EXCAVATION" FOR THESE CONTRACT DOCUMENTS SHALL BE: THE SITE CONTRACTOR SHALL EXPOSE UTILITIES AND OBTAIN ALL NECESSARY INFORMATION, INCLUDING BUT NOT LIMITED TO, INVERT ELEVATION, SIZE, DEPTH, PIPE TYPE, JOINT LOCATION, ETC. CONTRACTOR SHALL TRANSIT SURVEY THE LOCATION AND ELEVATIONS OF THE UTILITY. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SKETCHES INDICATING HORIZONTAL AND VERTICAL INFORMATION OF PIPE OR CONDUIT TYPE AND SIZE, CROSS-SECTION INFORMATION, CONCRETE UNDERGROUND INFORMATION (TOP AND BOTTOM ELEVATIONS, WIDTH, ETC.), JOINT LOCATION, ETC. OF EACH REQUIRED EXISTING UNDERGROUND UTILITY. ACCURACY OF HORIZONTAL LOCATION IS WITHIN 1 FOOT, AND ACCURACY OF VERTICAL ELEVATION IS WITHIN 0.02 FT. (1/4"). COORDINATE ALL EXCAVATION WITH CITY, OWNER, AND ENGINEER. PRECONSTRUCTION EXCAVATIONS SHALL OCCUR PRIOR TO ORDERING STRUCTURES AND PRIOR TO UTILITY CONSTRUCTION TO FACILITATE REDESIGN AND/OR DESIGN CONFIRMATION.
- THE LOCATION OF THE PRECONSTRUCTION EXCAVATION SYMBOLS DOES NOT NECESSARILY INDICATE THE LOCATION OF THE BURIED UTILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIND AND EXPOSE THE UTILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF IMPORTING AND PLACING TOPSOIL AND/OR COMPOST NECESSARY TO COMPLETE THE PROJECT. CONTRACTOR SHALL TEST TOPSOIL FOR APPROVAL BY THE OWNER AND ENGINEER.
- ALL SEWER AND STORM PIPES SHALL BE PVC SDR 35 UNLESS OTHERWISE NOTED. ALL NEW SANITARY AND STORM PIPES SHALL BE LAID WITH A LASER TO ELEVATION AND SLOPE AS SHOWN ON THE PLANS.
- CORE AND BOOT ALL EXISTING STRUCTURES UNLESS OTHERWISE NOTED.
- ALL NEW CATCH BASINS AND SANITARY SEWER MANHOLE MUST HAVE ONE 6" PRECAST CONCRETE GRADE RING.
- ALL WATERLINE PIPE SHALL BE DUCTILE IRON CLASS 52 OR C900 PVC. ALL BENDS AND FITTINGS SHALL HAVE POURED IN PLACE THRUST BLOCKS, MIXED ONSITE CONCRETE IS NOT ALLOWED.
- TEMPORARY GROUNDWATER, STORMWATER, AND SEWER BY-PASS PUMPING AND/OR DIVERSION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PUMPS AND EQUIPMENT TO PERFORM THE WORK. OVERNIGHT PUMPING IS NOT ALLOWED.
- ALL SIDEWALKS SHALL HAVE 2% MAXIMUM CROSS SLOPE. ALL RAMPS AND STAIRS SHALL HAVE A LANDING AT THE BOTTOM WITH A MAXIMUM SLOPE OF 2% FOR 5 FEET.
- CONTRACTOR TO PIN CONCRETE SIDEWALKS/LABS TO ALL CONTACT POINTS WITH STAIRS, BUILDING, BIKE SLAB, RETAINING WALLS, ETC.
- CONTRACTOR SHALL MAINTAIN FULL OCCUPANCY AND FIRE DEPARTMENT ACCESS TO ALL SURROUNDING BUILDINGS. COORDINATE ALL TEMPORARY ACCESS WITH THE MUNICIPALITY.
- BURIED NATURAL GAS IS SHOWN FOR ALIGNMENT PURPOSES ONLY. CONTACT VERMONT GAS SYSTEMS FOR DESIGN AND DETAILS OF NEW GAS LINE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION, BACKFILL, AND RESTORATION FOR THE CONSTRUCTION OF THE NATURAL GAS LINES. VERMONT GAS SYSTEMS WILL PROVIDE THE PIPING, LABOR TO INSTALL, AND TESTING FOR THE NEW GAS MAIN. COORDINATE WORK AND ALL GAS SHUT DOWN PROCEDURES WITH THE OWNER.
- REMOVAL OF ALL EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR.
- AT THE END OF THE PROJECT, CLEAN THE SUMPS OF ALL NEW AND EXISTING CATCH BASINS AND STORM MANHOLES WITHIN THE PROJECT LIMITS.
- ELECTRICAL AND LIGHTING ARE SHOWN FOR ILLUSTRATIVE/COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR DESIGN.
- SEE LANDSCAPE AND/OR STRUCTURAL PLANS FOR ALL RETAINING WALLS, UTILITY PADS, STAIRS, AND EXTERIOR CONCRETE AT DOORS.
- REFER TO PLUMBING, MECHANICAL AND/OR FIRE PROTECTION PLANS FOR WATER, SEWER AND STORM DESIGN WITHIN FIVE FEET OF THE BUILDING.

EPSC GENERAL NOTES:

- EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PRACTICES SHALL BE IMPLEMENTED IN ALL AREAS WHERE THERE IS AN INCREASED RISK OF EROSION, AND WHERE THERE IS POTENTIAL FOR DISCHARGE OF STORMWATER RUNOFF (EITHER DIRECT OR INDIRECT) TO A WATER BODY.
- EPSC MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES WITHIN A GIVEN DRAINAGE AREA WITH THE EXCEPTION OF LAND DISTURBANCE THAT MAY RESULT FROM ACCESSING THE AREA(S) WITH EQUIPMENT IN WHICH EPSC MEASURES ARE TO BE INSTALLED. THIS EXCEPTION INCLUDES LAND DISTURBANCE THAT MAY RESULT FROM ACCESS OF EQUIPMENT THAT IS NEEDED FOR:EXPLORATION AND/OR EPSC MEASURE INSTALLATION PHASES OF THE PROJECT. TEMPORARY SEDIMENT BASINS, TEMPORARY SEDIMENT TRAPS, PERIMETER DIKES, TEMPORARY SEDIMENT BARRIERS, AND OTHER TEMPORARY MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE WITH THE EXCEPTION OF THOSE ACTIVITIES STATED ABOVE. EARTH DISTURBANCE INCLUDES STUMPING AND GRUBBING OF CLEARED AREAS.
- EPSC MEASURES SHALL BE INSTALLED PURSUANT TO THE EPSC PLAN, THE 2020 STATE OF VERMONT LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL, THE 2020 VERMONT EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS, AND/OR ANY OTHER RELEVANT PROJECT PERMITS.
- ALL PROPOSED CHANGES SHALL BE APPROVED BY THE ON-SITE PLAN COORDINATOR (OSPC) OR HIS/HER DESIGNEE PRIOR TO IMPLEMENTATION.
- LOGGING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ACCEPTABLE MANAGEMENT PRACTICES FOR MAINTAINING WATER QUALITY ON LOGGING JOBS IN VERMONT (AMPS, 2006).
- PERMISSION MUST BE GRANTED BY VT DEC PRIOR TO USE OF ANY SUPPORT ACTIVITIES OCCURRING OUTSIDE OF THE APPROVED PROJECT BOUNDARIES.
- ALL PARTIES ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHO MEET EITHER OF THE FOLLOWING TWO CRITERIA OF "PRINCIPAL OPERATOR" MUST OBTAIN COVERAGE UNDER THE CONSTRUCTION STORMWATER DISCHARGE PERMIT FOR THE PROJECT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES BY THAT OPERATOR:
 - THE PARTY HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATION, INCLUDING BUT NOT LIMITED TO THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS, OR
 - THE PARTY HAS CONTINUOUS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE PROJECT THAT ARE NECESSARY TO ENSURE COMPLIANCE WITH AN EPSC PLAN FOR THE SITE OR OTHER PERMIT CONDITIONS (E.G., THEY ARE AUTHORIZED TO DIRECT WORKERS AT A SITE TO CARRY OUT ACTIVITIES REQUIRED BY THE EPSC PLAN OR COMPLY WITH OTHER PERMIT CONDITIONS).
- EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED TO THE EXTENT PRACTICABLE.
- A VEGETATED BUFFER SHALL BE MAINTAINED FOR WATER BODIES WHERE FEASIBLE (E.G., WETLANDS AND STREAMS).
- TO THE EXTENT PRACTICABLE, SURFACE FLOW SHALL BE DIVERTED AWAY FROM EXPOSED SOILS VIA DIVERSION BERMS, EARTH DIKES, PERIMETER DIKES/SWALES, TEMPORARY SWALES, WATER BARS, AND/OR CHECK DAMS.
- RESOURCE AREAS (E.G., WETLANDS, STREAMS, RTE PLANT SPECIES) SHALL BE FLAGGED PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES OCCURRING WITHIN CLOSE PROXIMITY TO THOSE AREAS.
- EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT VIOLATE WATER QUALITY STANDARDS OR CONTRIBUTE TO EROSION. DEWATERING DETAILS SHALL BE REVIEWED AND APPROVED BY OSPC PRIOR TO USE.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN STEEP SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL (SEE DETAILS), FLUME, OR SLOPE DRAIN STRUCTURE.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, WHERE FEASIBLE, BUT NOT IN RESOURCE AREAS.
- WHERE FEASIBLE, ALL SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES AS PART OF MAINTENANCE SHALL BE DISPOSED OF IN AN AREA THAT IS AT LEAST ONE OF THE FOLLOWING, WITH IMMEDIATE STABILIZATION FOLLOWING DISPOSAL OF MATERIAL:
 - LESS THAN 5% SLOPE
 - AT LEAST 100 FEET FROM ANY DOWNSLOPE WATER BODY OR CONVEYANCE TO A WATER BODY, INCLUDING A DITCH
 - VEGETATED
- DISTURBED AREAS BORDERING OR DRAINING TO EXISTING ROADS SHALL HAVE AN APPROPRIATE SEDIMENT BARRIER (E.G., SILT FENCE) SPANNING THE EDGE OF THE DISTURBANCE TO PREVENT WASHING OF SEDIMENT ONTO ROADWAYS OR INTO ROAD DITCHES.
- IN ADVANCE OF PREDICTED RAINFALL OR SNOWMELT, ALL EPSC MEASURES THAT ARE LOCATED IN ACTIVE AREAS OF EARTH DISTURBANCE SHALL BE INSPECTED AND REPAIRED, AS NEEDED. IF NECESSARY, THIS SHALL INCLUDE TEMPORARY STABILIZATION OF ALL DISTURBED SOILS ON THE SITE IN ADVANCE OF THE ANTICIPATED RUNOFF PERIOD.
- DUST CONTROL SHALL BE HANDLED VIA WATER APPLICATION TO ROADWAYS AND OTHER AREAS WHERE DUST MAY BE GENERATED.

GENERAL GRADING AND SITE WORK NOTES

- ALL AREA DISTURBED AND ALL AREAS WITHIN THE CLEARING LIMITS SHALL BE GRADED AND COVERED WITH A MINIMUM OF 6" OF LOAM TOPSOIL. THE AREAS TO BE LOAMED SHALL BE FREE AND CLEAR OF ROOTS, WASTE MATERIAL, AND OTHER DELETERIOUS MATERIAL. TOPSOIL SHALL BE SPREAD AND LIGHTLY COMPACTED TO A DEPTH OF 6". TOPSOIL SHALL BE APPROVED BY THE ENGINEER. ALL SIDE SLOPES ARE TO BE LOAMED.
- ALL TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH SECTION 651 OF THE VT STANDARD SPECIFICATIONS 2018 AND THE MUNICIPALITY SPECIFICATIONS. MULCHING SHALL FOLLOW SEEDING BY NO MORE THAN 24 HOURS.
- ALL CUT SLOPES SHALL BE NO STEEPER THAN 2:0H ON 1:0V. ALL FILL SLOPES SHALL BE NO STEEPER THAN 2:0H ON 1:0V.
- THE CONTRACTOR SHALL NOT DISTURB ANY GROUND BETWEEN OCTOBER 15TH BETWEEN APRIL 15TH WINTER MONTHS, UNLESS APPROVED BY THE ENGINEER.
- TEMPORARY SILT FENCE SHALL BE ERECTED PRIOR TO ANY CLEARING OR CONSTRUCTION. FENCING MAY BE ERECTED IN PHASES, BUT IN NO CASE SHALL GROUND DISTURBANCE PROCEED FENCING. SPECIAL AREAS MAY BE DESIGNATED BY THE OWNER FOR PRESERVATION OF EXISTING TREES. THESE AREAS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE NO DAMAGE IS DONE TO DESIGNATED TREES.
- EXISTING PLANTINGS ARE LOCATED IN GENERAL AREAS AS SHOWN ON THIS PLAN. CONTRACTOR SHALL PROTECT PLANTINGS SO AS NOT TO DAMAGE THESE OR THEIR ROOT SYSTEMS.
- SLOPE STABILITY BASED UPON UNSATURATED SOIL CONDITIONS. IF DURING CONSTRUCTION SATURATED SOILS ARE ENCOUNTERED, CONTACT THE ENGINEER IMMEDIATELY.

WATER & SEWER CONSTRUCTION NOTES

- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION OF WATER MAIN, STORM AND SANITARY SEWER SYSTEMS AS SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY ADAPTERS, FITTINGS, ETC. TO MAKE CONNECTIONS TO THE EXISTING AND PROPOSED UNITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON THE PLANS AND/OR REFERENCED IN THE SPECIFICATIONS AND PERMITS. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL BY THE ENGINEER, ALL TYPES OF MATERIALS AND PRODUCTS USED.
 - THE CONTRACTOR SHALL COORDINATE ALL WORK ON THE WATER SUPPLY SYSTEM WITH THE OWNER, THE TOWN OF COLCHESTER, COLCHESTER PUBLIC WORKS, CHAMPLAIN WATER DISTRICT (CWD), AND THE CIVIL ENGINEER. ALL WATER INSTALLATION WORK AND WATER DISTRIBUTION MATERIALS MUST COMPLY WITH THE CURRENT WPW SPECIFICATIONS.
 - THESE PLANS ARE NOT RESPONSIBLE FOR DESIGN OF WATER AND SEWER SERVICES WITHIN 5 FEET OF THE BUILDING. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING THE SERVICES TO THE PLUMBING AND/OR FIRE SYSTEM CONNECTION WITHIN THE BUILDING. SEE PLUMBING ENGINEER, MECHANICAL ENGINEER AND/OR FIRE PROTECTION PLANS FOR SCOPE, DESIGN AND SPECIFICATIONS WITHIN 5 FT. OF THE BUILDING.
 - CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS AND APPURTENANCES TO COMPLETE THE WATERLINE CONSTRUCTION WORK. THIS INCLUDES TEMPORARY FITTINGS AND GAUGES NECESSARY TO SAFELY COMPLETE THE FLUSHING ACTIVITIES REQUIRED PRIOR TO MAKING CONNECTIONS WITH BUILDING PLUMBING.
 - THE PROJECT SHALL BE CONSTRUCTED, COMPLETED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH THE APPROVED PLANS. NO CHANGES SHALL BE MADE IN THE PROJECT WITH OUT THE WRITTEN APPROVAL OF THE TOWN, CWD, AND THE CIVIL ENGINEER. A COPY OF THE FINAL APPROVED PLANS SHALL BE SUBMITTED TO CWD AND THE TOWN PRIOR TO CONSTRUCTION OF THE WATER SYSTEM IMPROVEMENTS.
 - THE TOWN AND CWD SHALL BE NOTIFIED IN ADVANCE TO INSPECT ALL MECHANICAL JOINTS FITTINGS, MAIN LINE TAPS, APPURTENANCES, THRUST BLOCKS, WATER LINE CROSSINGS, AND TESTING PRIOR TO OCCURRENCE OR BACKFILLING.
 - ALL DOMESTIC SERVICES AND FIRE SPRINKLER SYSTEMS THAT ARE CONNECTED TO THE PUBLIC WATER SYSTEM SHALL BE PROTECTED WITH A BACKFLOW PREVENTION ASSEMBLY, AND AN APPROPRIATE THERMAL EXPANSION SYSTEM. THE MECHANICAL CONTRACTOR SHALL COORDINATE APPROVED BACKFLOW PREVENTION WITH THE TOWN AND CWD.
- WATER MAINS**
- APPLIES TO NEW DOMESTIC WATER MAINS AND SERVICES.
 - THE PIPE FOR WATER MAIN SHALL BE CL52 DOUBLE CEMENT LINED DUCTILE IRON OR C900 PVC. DUCTILE IRON FITTINGS SHALL CONFORM TO AWWA C110, 350 POUNDS WORKING PRESSURE. VALVES SHALL BE MANUFACTURED TO MEET ALL REQUIREMENTS OF AWWA SPECIFICATION C509 OR C515. FOUR-INCH AND SIX-INCH PIPE SHALL HAVE NO LESS THAN 2 BRASS WEDGES INSTALLED AT EACH JOINT. EIGHT-INCH AND 10" PIPE SHALL HAVE NO LESS THAN 3 WEDGES INSTALLED AT EACH JOINT.
 - ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600. THE PIPE SHALL BE KEPT FREE OF FOREIGN MATTER AND DEBRIS DURING INSTALLATION. WHEN THE PROCESS OF PIPE LAYING HAS STOPPED, ANY OPEN ENDS OF PIPE SHALL BE PLUGGED. THERE SHALL BE A MINIMUM OF 6" COVER OVER ALL PIPE AND SERVICE LINES. ANY PIPE DEFLECTION SHALL NOT EXCEED FIFTY (50%) PERCENT OF RECOMMENDED MANUFACTURER'S MAXIMUM DEFLECTION. BACKFILL MATERIALS AND PROCEDURES SHALL BE AS DETAILD ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL SHEETING AND/OR SHORING NECESSARY TO COMPLY WITH OSHA - YOSHA REGULATIONS.
 - THE TESTING OF THE WATER MAIN SHALL CONSIST OF THE TESTING OF ALL INSTALLED PIPE, SERVICES AND HYDRANTS IN ACCORDANCE WITH AWWA C600. THE TESTING SHALL CONSIST OF A PRESSURE TEST AND LEAKAGE TEST. ALL TESTING SHALL BE DONE WITH POTABLE WATER AND IN THE PRESENCE OF THE ENGINEER, REPRESENTATIVES FROM THE MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS. THE PRESSURE TEST CONSISTS OF MAINTAINING A MINIMUM INTERNAL PIPE PRESSURE OF 200 PSI FOR TWO (2) HOURS. THE TESTING ALLOWANCE SHALL BE DEFINED AS THE MAXIMUM QUANTITY OF MAKEUP WATER THAT IS ADDED INTO A PIPELINE UNDERGOING HYDROSTATIC PRESSURE TESTING, OR ANY VALVED SECTION THEREOF, IN ORDER TO MAINTAIN PRESSURE WITHIN +/- 5 PSI OF THE SPECIFIED TEST PRESSURE (AFTER THE PIPELINE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED). NO PIPE INSTALLATION WILL BE ACCEPTED IF THE QUANTITY OF MAKEUP WATER IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{SD\sqrt{P}}{148,000}$$

L = TESTING ALLOWANCE (MAKEUP WATER), IN GALLONS PER HOUR
 S = LENGTH OF PIPE TESTED, IN FEET
 D = NOMINAL PIPE DIAMETER, IN INCHES
 P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST, IN POUNDS PER SQUARE INCH (GAUGE)
 - CHLORINATING OF THE SYSTEM SHALL BE ACCOMPLISHED AFTER THE WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED AND THOROUGHLY FLUSHED. DISINFECTING SHALL BE IN ACCORDANCE WITH AWWA C-651. THE DISINFECTING PROCESS SHALL BE DEEMED ACCEPTABLE ONLY AFTER TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN FROM THE FLUSHED AND DISINFECTED MAIN 24 HOURS APART, SHOWS NO EVIDENCE OF BACTERIOLOGICAL CONTAMINATION. FOR PROPER DISINFECTION USE MINIMUM 25 MG/L CHLORINE CONCENTRATION FOR 24 HOURS. THE CONCENTRATION MUST REMAIN ABOVE 10 MG/L. TABLET DISINFECTING IS NOT ACCEPTABLE. DECHLORINATION SHALL BE REQUIRED WHILE FLUSHING THE ORIGINAL CHLORINE FROM THE NEW LINE. COORDINATE WITH THE THE MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS REGARDING THE THE DISPOSAL OF THE HIGHLY CHLORINATED WATER FLUSHED FROM THE NEW WATERLINE.
 - THE WATER MAIN SHALL BE THOROUGHLY FLUSHED WITH A MINIMUM FLOW VELOCITY OF 2.5 FT/S TO FLUSH FOREIGN MATERIALS OUT OF THE VALVES AND HYDRANTS. AT LEAST 48 HOURS PRIOR TO WATERLINE FLUSHING, THE CONTRACTOR SHALL CONTACT THE OWNER, MUNICIPALITY FIRE DEPARTMENT, THE DISTRICT WATER SUPPLY COMPANY, AND THE ENGINEER.

SANITARY SEWER

- ALL SEWER LINES AND MANHOLES SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION RULES (04/12/2019).
- ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN THE PRESENCE OF THE ENGINEER. THE STRUCTURE SHALL BE TESTED PRIOR TO BACKFILL WITH THE LOWEST SEAM EXPOSED. TEST PROCEDURES AND PRESSURE SHALL BE DETERMINED JOINTLY BY THE LOCAL APPROVAL AGENCY AND THE ENGINEER. FAILURE OF ANY VACUUM TEST SHALL NECESSITATE REPAIR AND/OR REPLACEMENT OF THE STRUCTURE AND RETEST. WATER TESTING MANHOLES IS NOT ACCEPTABLE.
- ALL SANITARY MAINS SHALL BE AIR TESTED IN THE PRESENCE OF THE ENGINEER. AT A MINIMUM, THE TEST PRESSURE SHALL BE 4 POUNDS PER SQUARE INCH AT THE HIGHEST POINT ALONG THE TEST FOR 4 MINUTES.
- UTILITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING SANITARY TESTING AT A MINIMUM OF 24 HOURS PRIOR TO THE TEST. BASED ON AVAILABILITY OF ENGINEER'S STAFF, THE ENGINEER SHALL ACCOMMODATE THE TESTING SCHEDULE WITHIN 24 HOURS OF THE CONTRACTOR REQUESTED TEST DATE/TIME.
- THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER IF PRE-SCHEDULED TESTING AND/OR WATER/SEWER CONSTRUCTION IS CANCELED. IF CONTRACTOR DOES NOT CONTACT ENGINEER AND ENGINEER VISITS THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEER'S FEES/MILEAGE FOR SITE VISIT.

ADDITIONAL NOTES AND TESTING REQUIREMENTS

- IN ADDITION TO THE ABOVE REQUIREMENTS AND APPLIES TO WATER AND SANITARY SEWER.
- ALL WATER LINES AND SEWER LINES SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION RULES (04/12/2019) AND THE CHAPTER 21 WATER SUPPLY RULES (03/17/2020) (THE MORE STRINGENT RULE SHALL APPLY).
- ALL PRIVATE OR MUNICIPAL WATERLINES SHALL BE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN AWWA C600 AND/OR NFPA 24.
- NO WATER MAIN SHALL BE CLOSER THAN TEN (10) FEET TO ANY SANITARY SEWER OR SANITARY MANHOLE AND FIVE (5) FEET TO ANY CATCH BASIN OR STORM SEWER LINE. PROVIDE MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY SEWER CROSSING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AS-BUILTS TO SERVICE LOCATIONS, AND ANY WATER MAIN FITTINGS. AS-BUILTS SHALL BE RECORDED IN ACCORDANCE WITH THE OUTLINED PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ENGINEER AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY PORTION OF THE EXTERIOR WATER OR SANITARY SYSTEMS. THIS NOTIFICATION REQUIREMENT SHALL CONTINUE TO THE COMPLETION OF THE WATER AND SANITARY SYSTEMS.
- UTILITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WATER AND SANITARY TESTING, WITH THE ENGINEER AND MUNICIPALITY PUBLIC WORKS, AT A MINIMUM OF 24 HOURS PRIOR TO THE TEST. BASED ON AVAILABILITY OF ENGINEER'S STAFF, THE ENGINEER SHALL ACCOMMODATE THE TESTING SCHEDULE WITHIN 24 HOURS OF THE CONTRACTOR REQUESTED TEST DATE/TIME.
- THE CONTRACTOR SHALL PRE-TEST WATER FOR 2 HOURS. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF PRE-TEST FAILED.
- THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER IF PRE-SCHEDULED TESTING AND/OR WATER/SEWER CONSTRUCTION IS CANCELED. IF CONTRACTOR DOES NOT CONTACT ENGINEER AND ENGINEER VISITS THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEER'S FEES/MILEAGE FOR SITE VISIT.
- THE CONTRACTOR SHALL COORDINATE WATER/SEWER CONSTRUCTION WITH THE MUNICIPALITY. THE CONTRACTOR SHALL LEAVE THRUST BLOCKS AND OTHER REQUIRED SECTIONS OF NEW LINE EXPOSED UNTIL MUNICIPALITY HAS INSPECTED AND APPROVED IT.

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



Wiemann Lamphere Architects
525 Hercules Drive
Colchester, Vermont 05446
www.wiemannlamphere.com



164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:

Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:

Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ± 13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

DETAILS

DATE ISSUED: 12/23/22

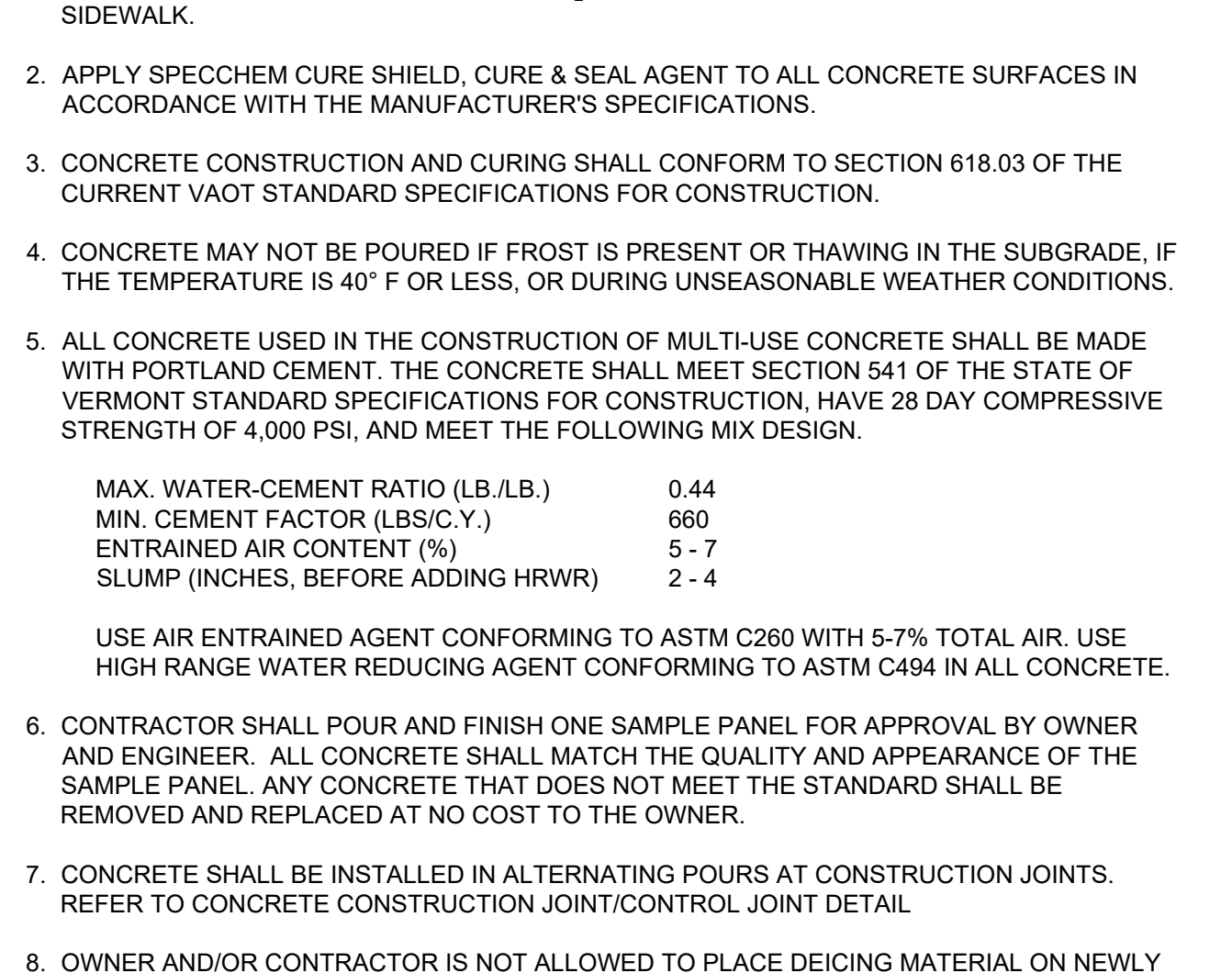
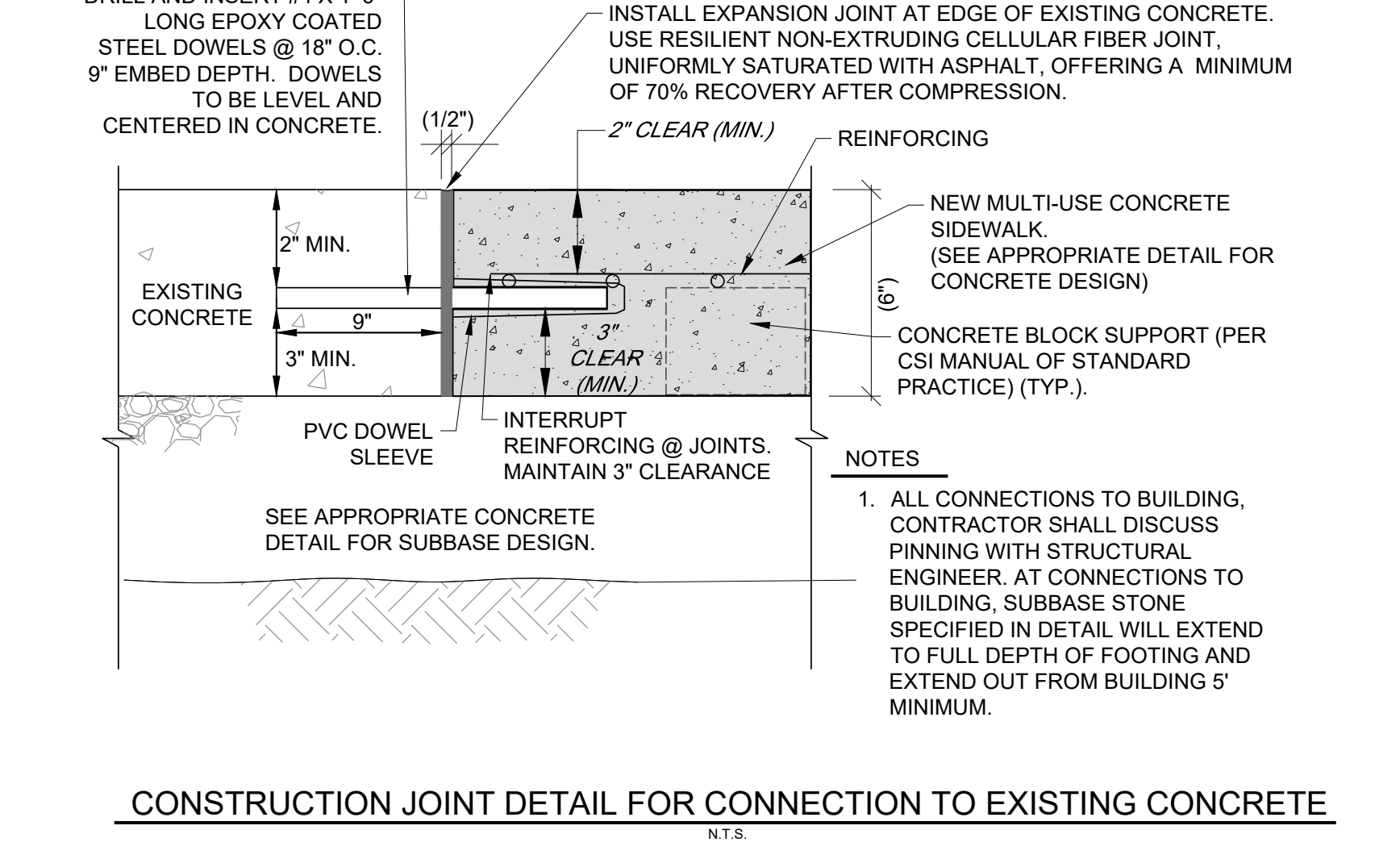
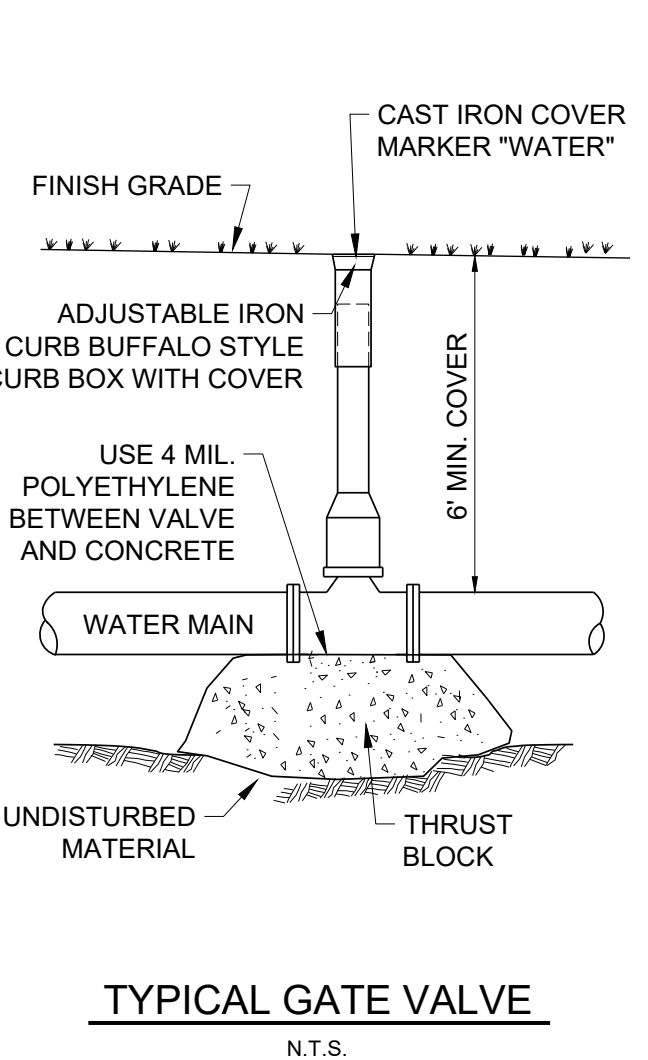
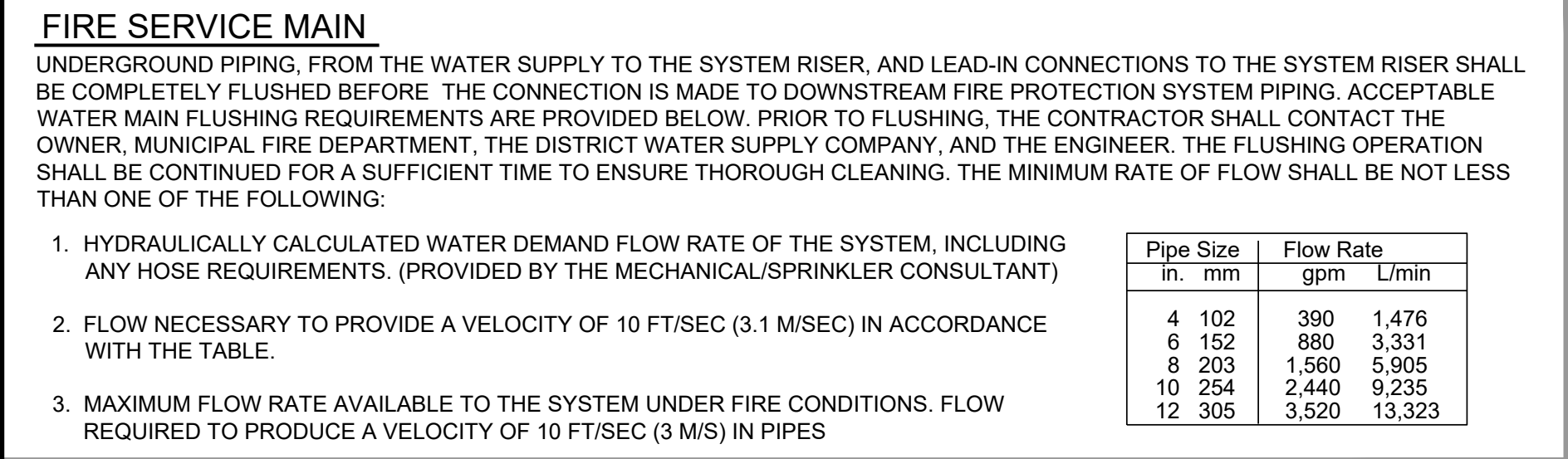
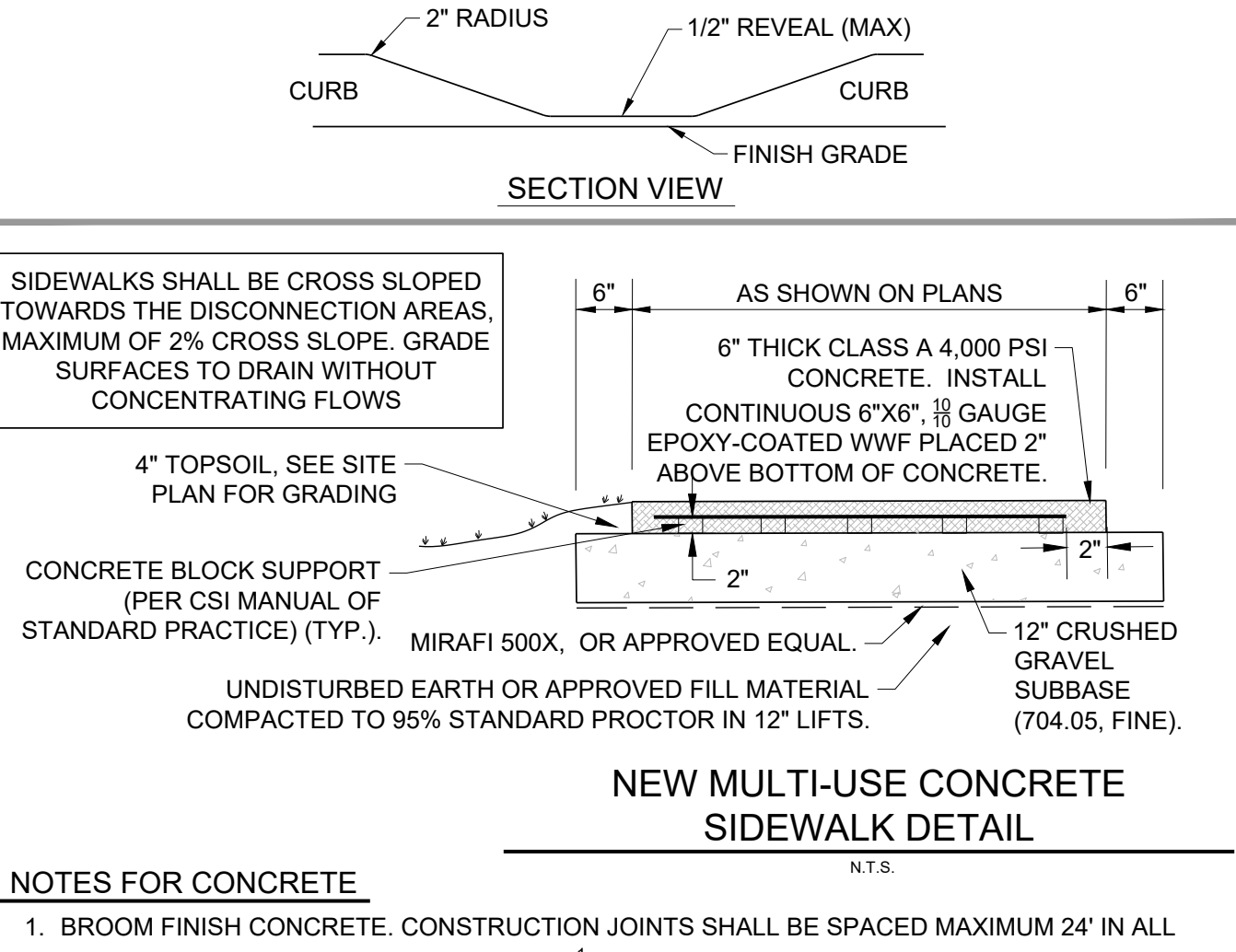
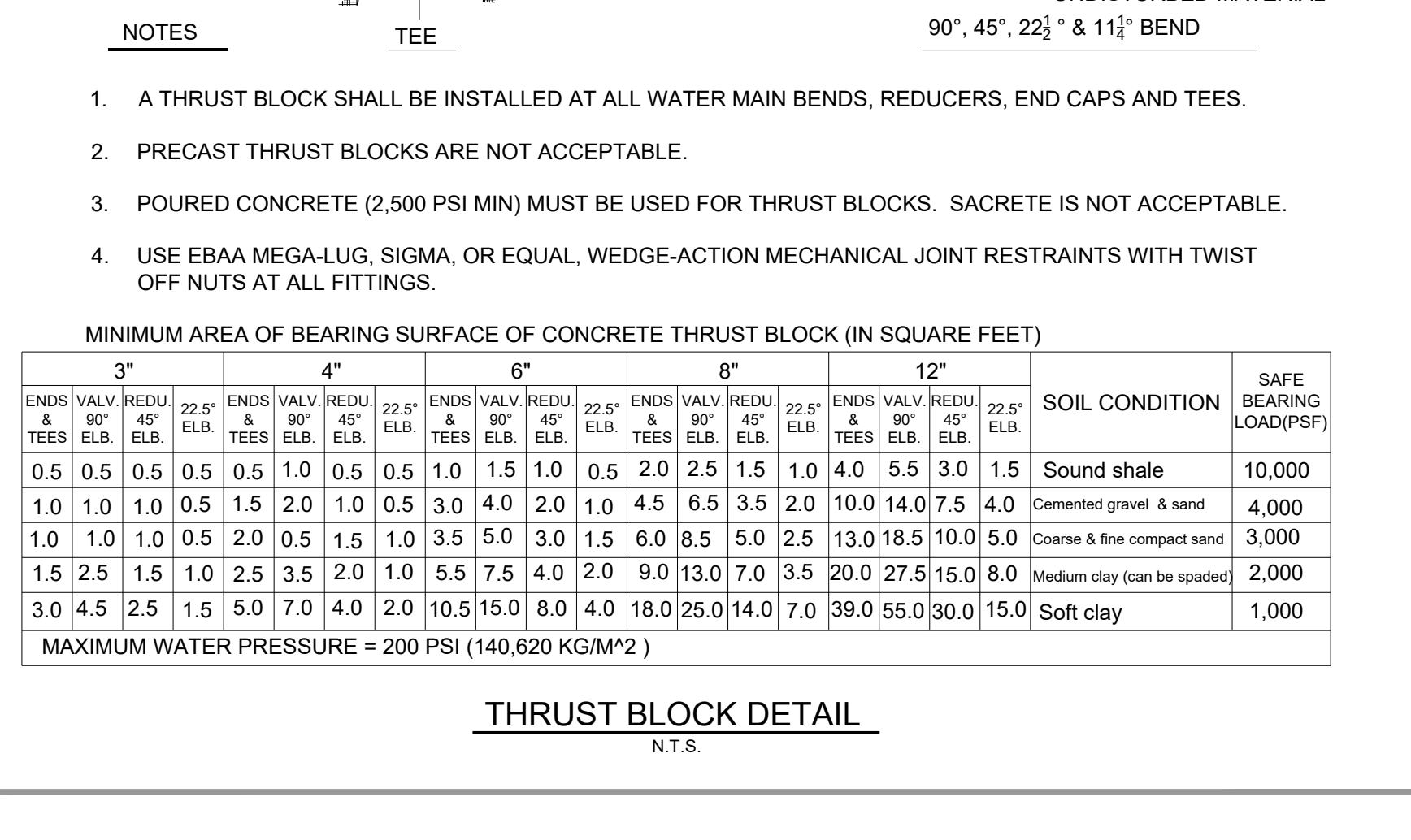
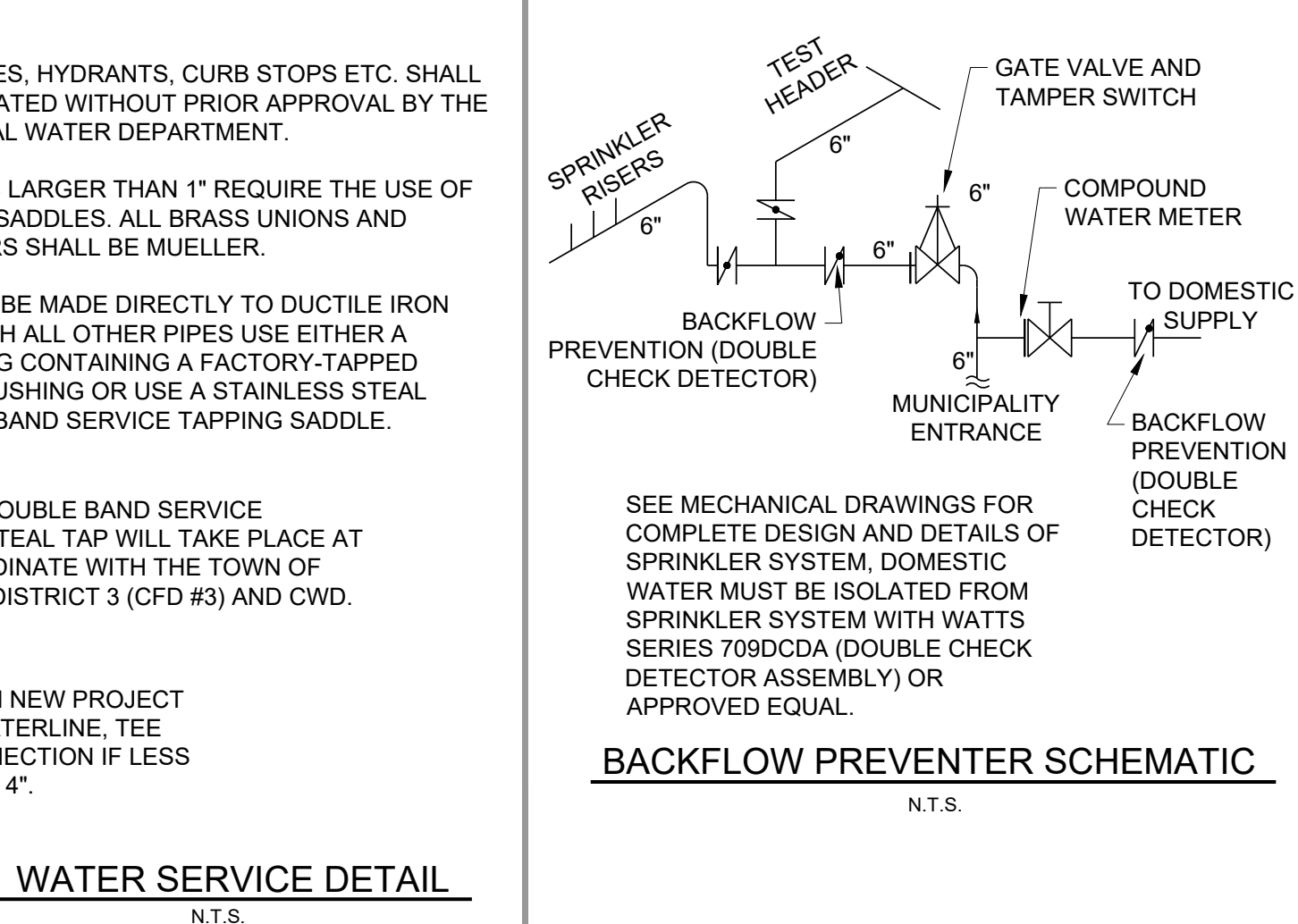
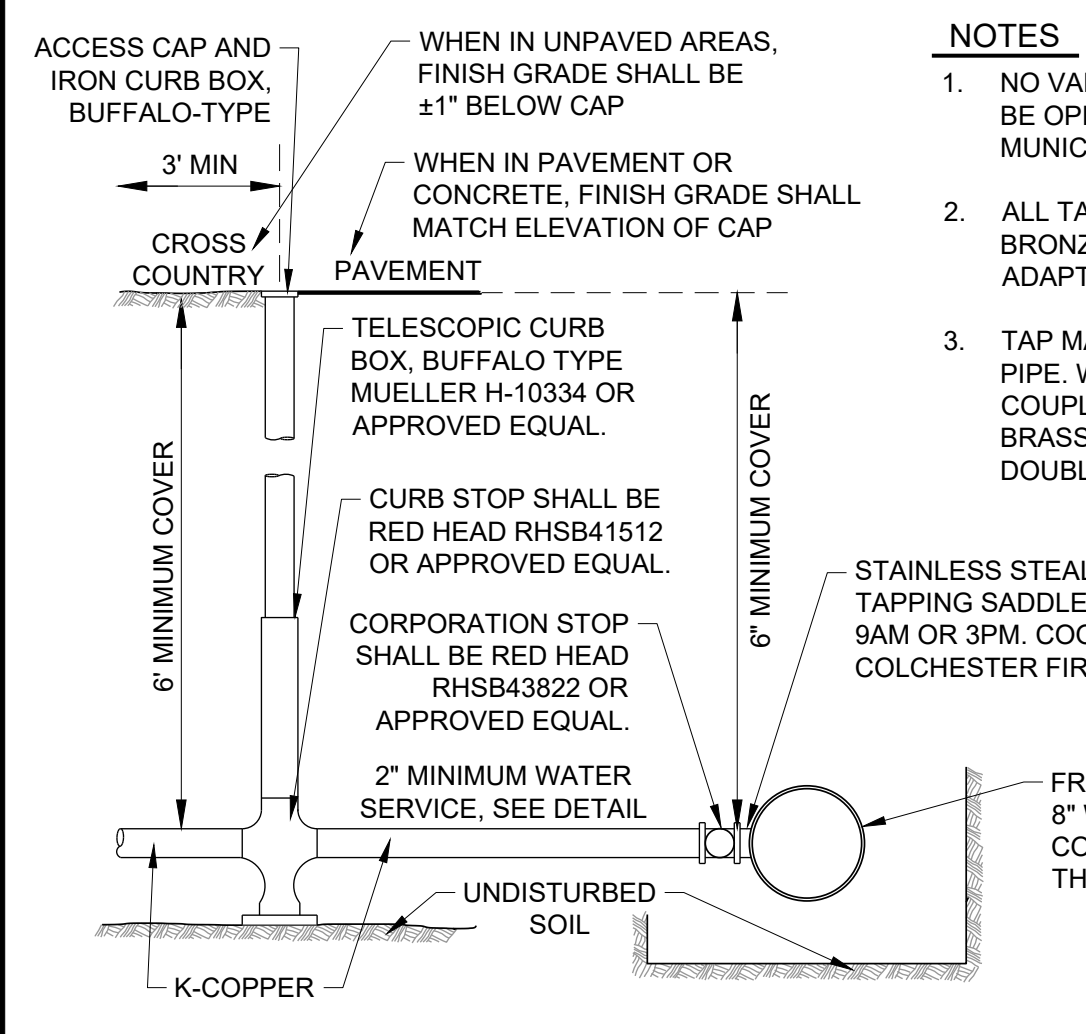
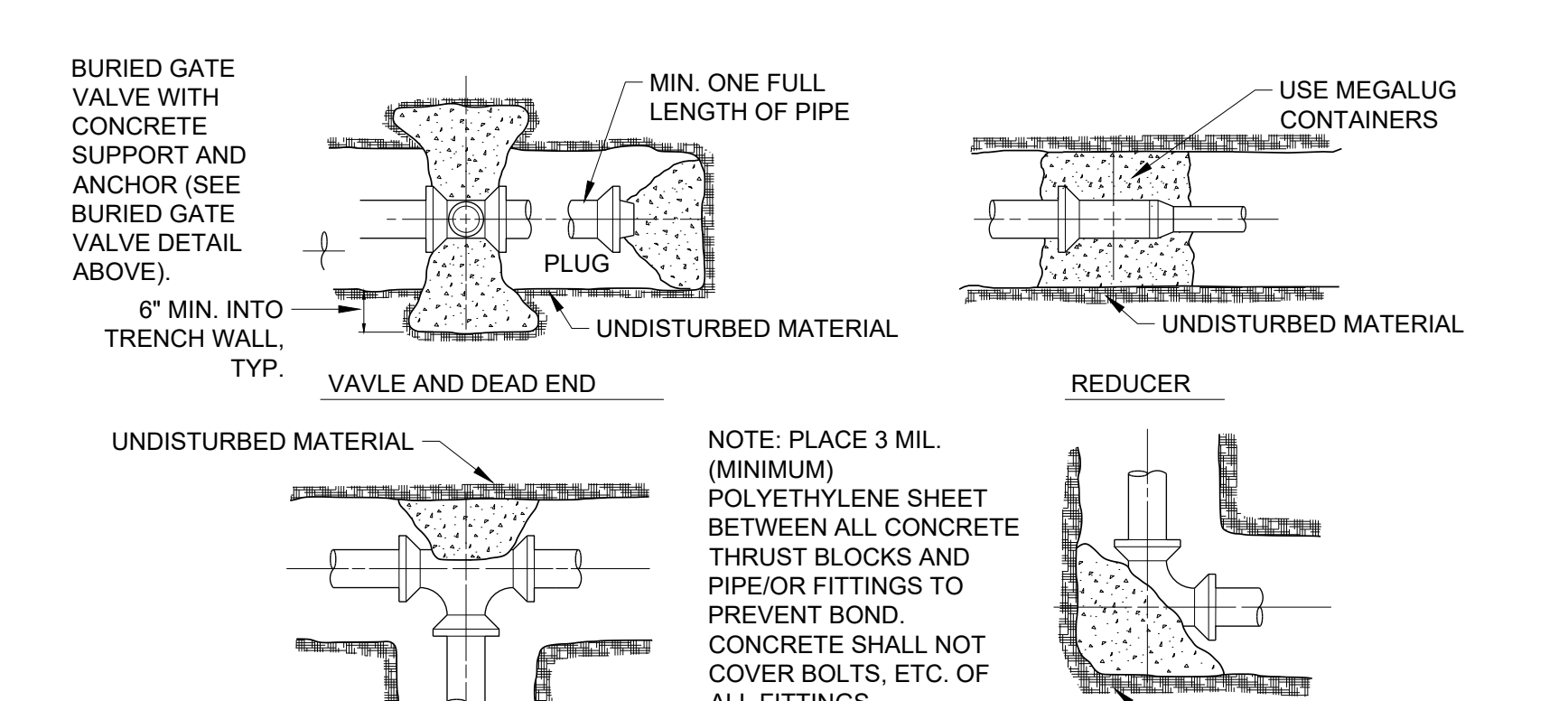
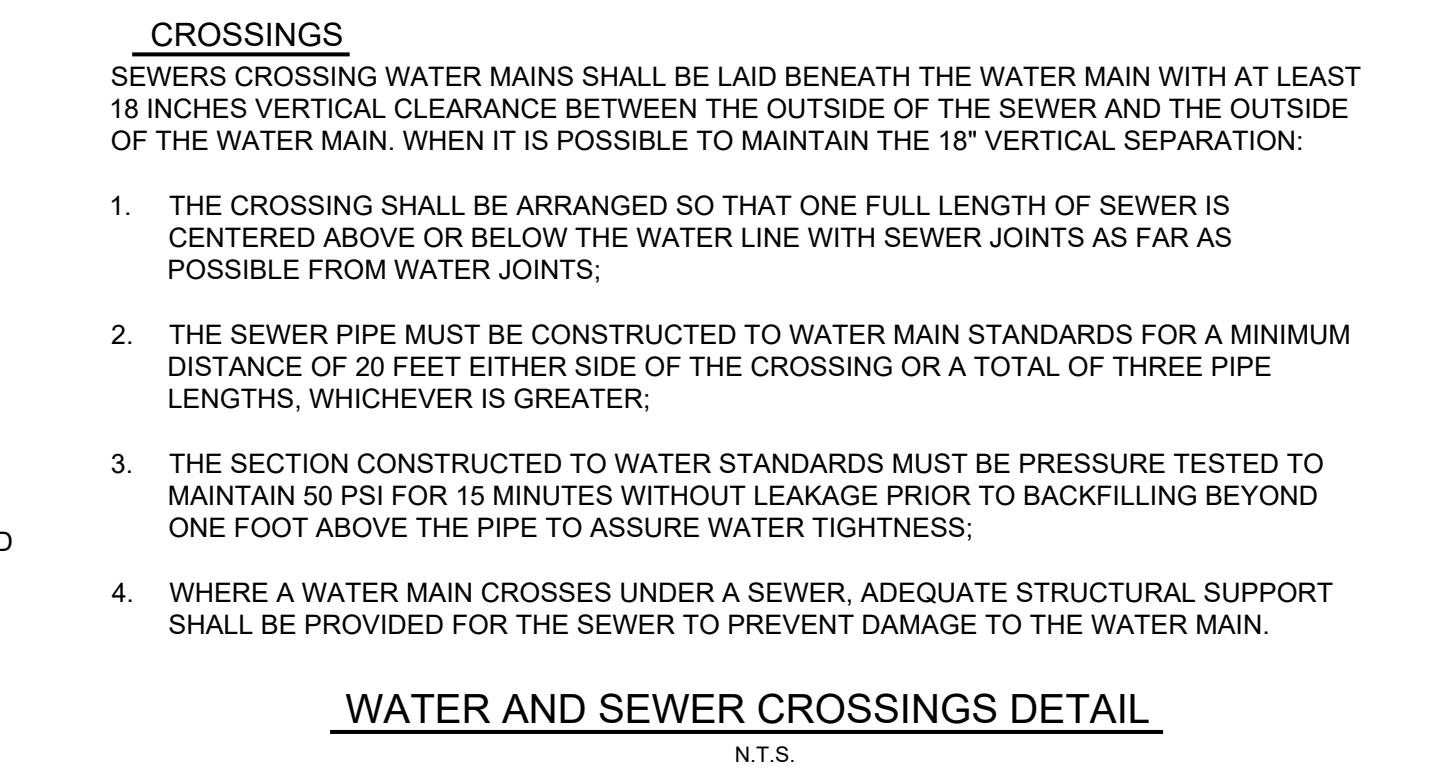
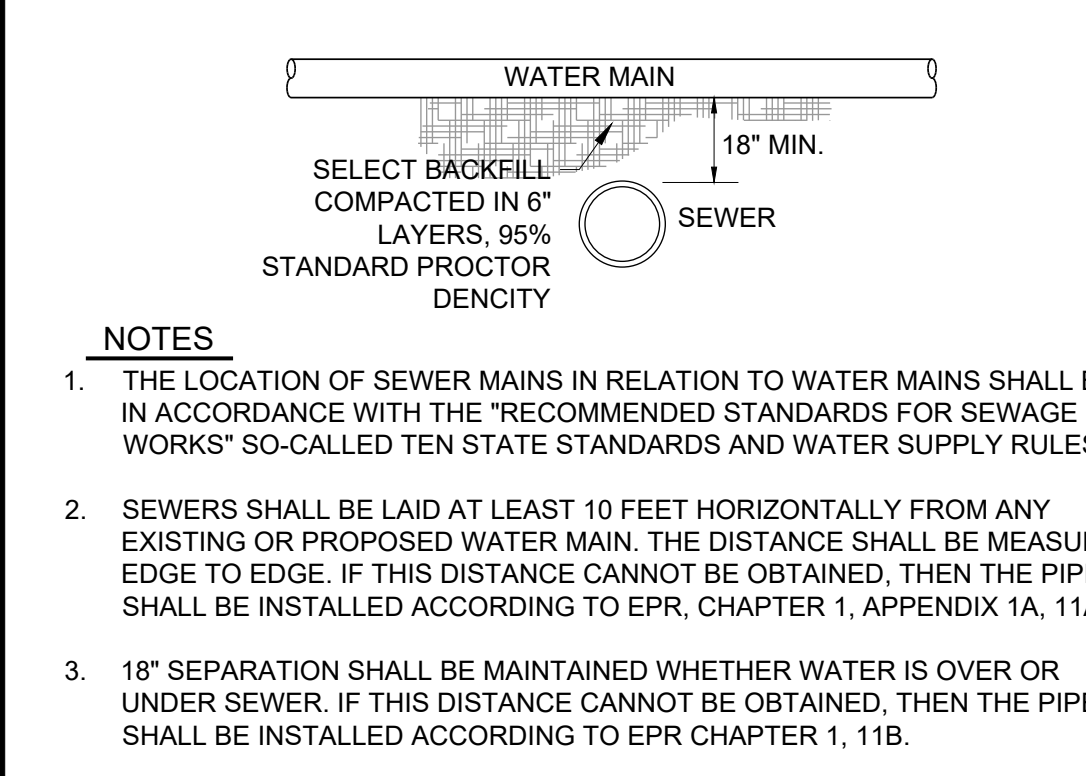
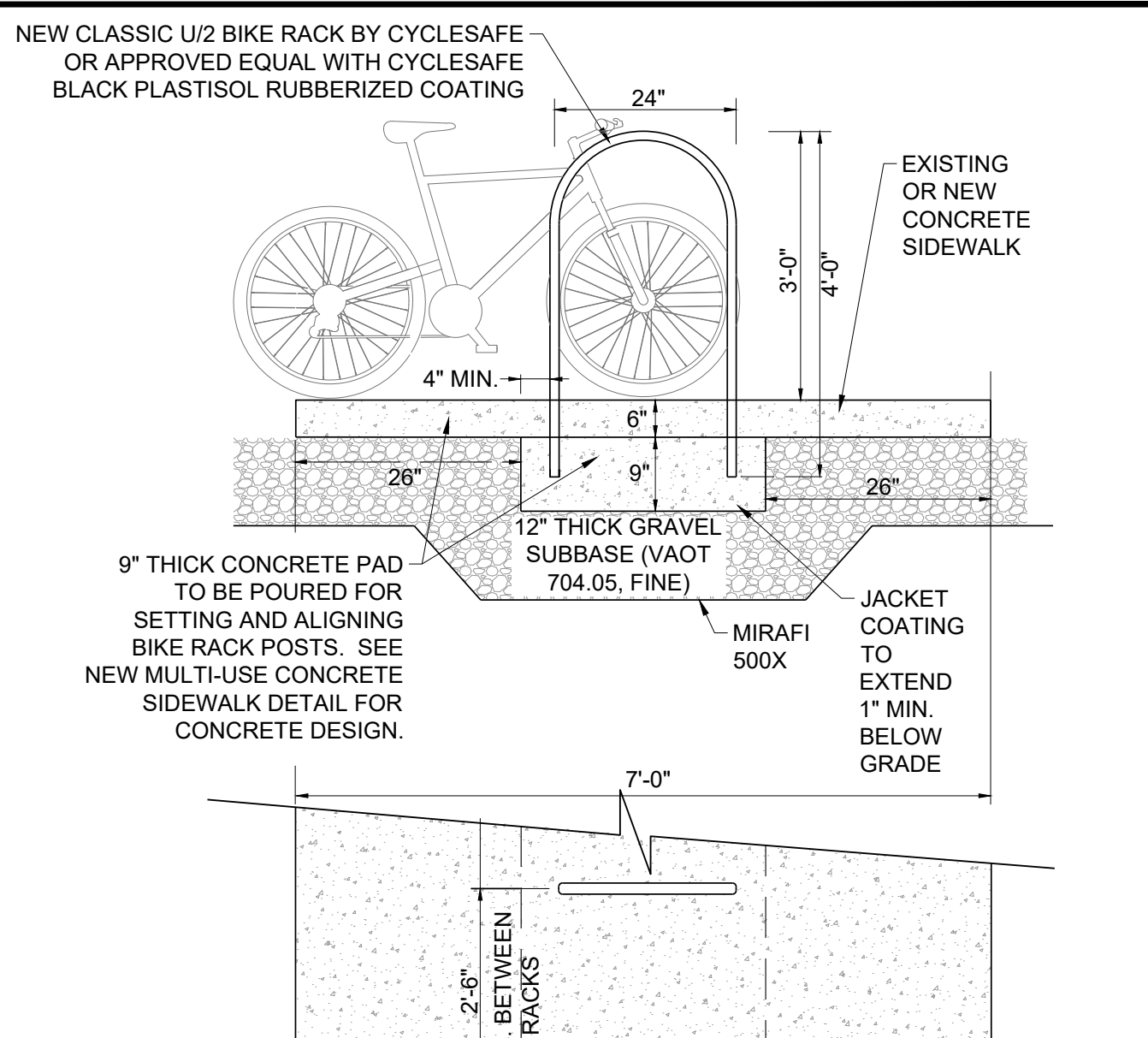
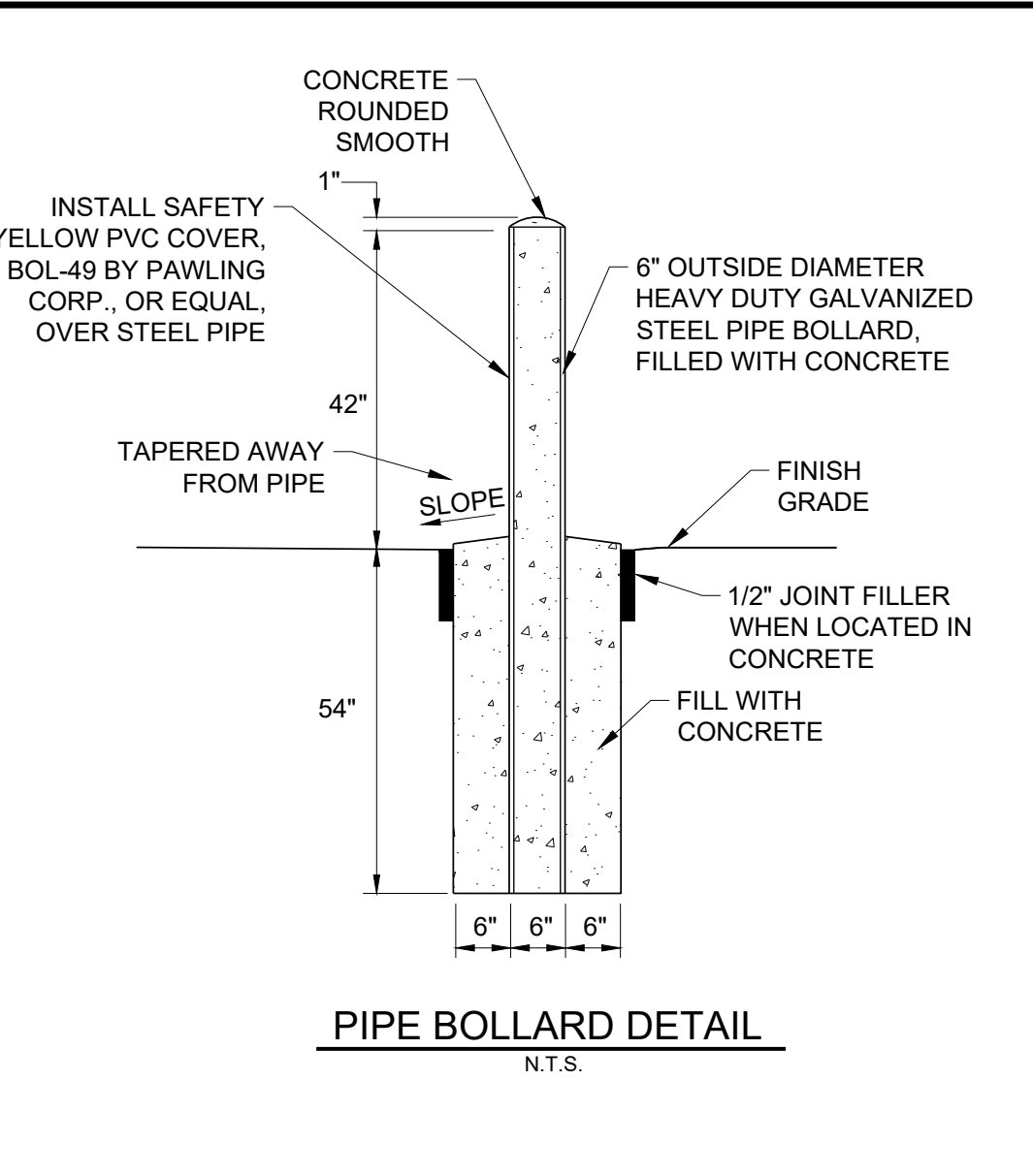
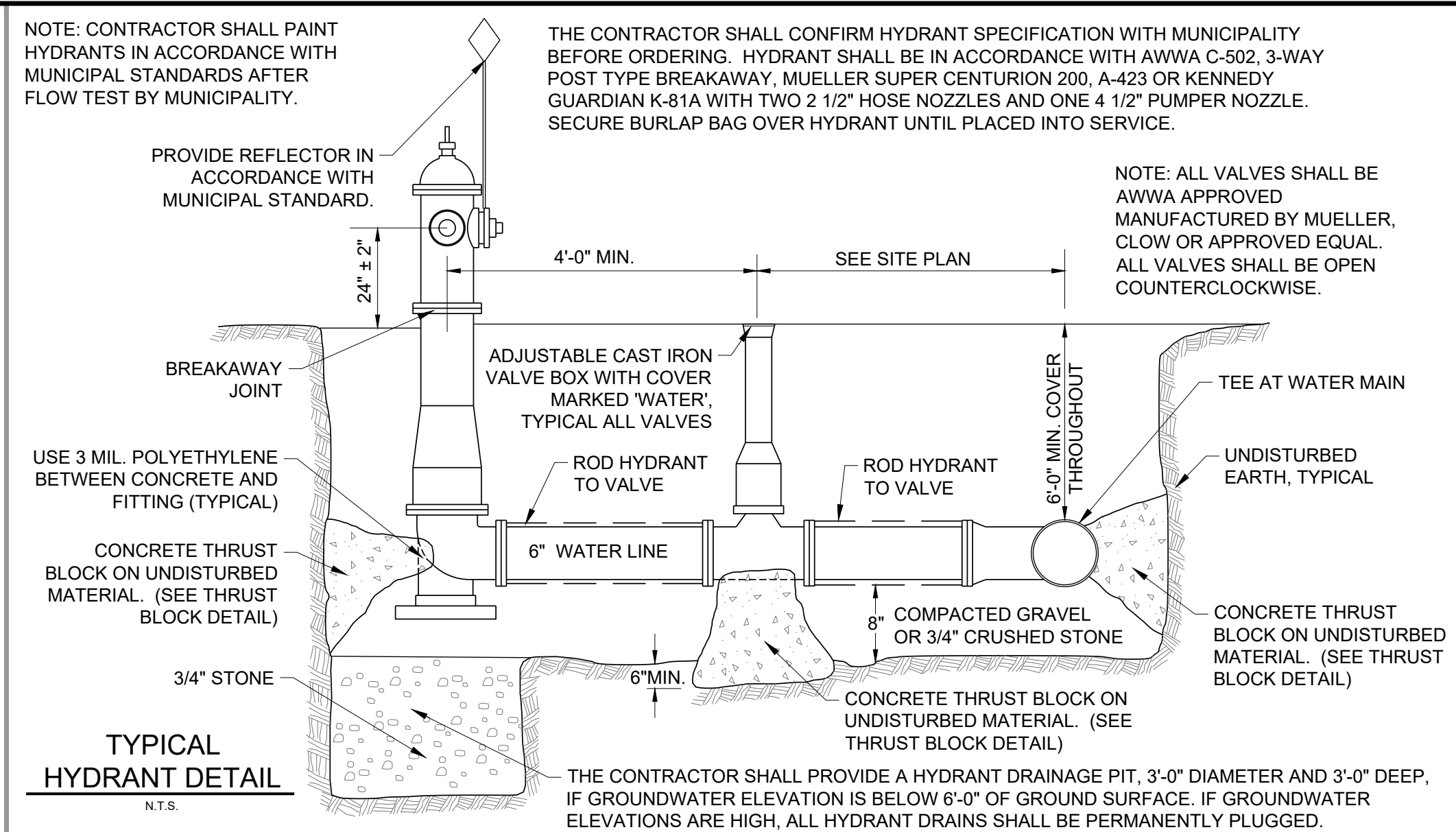
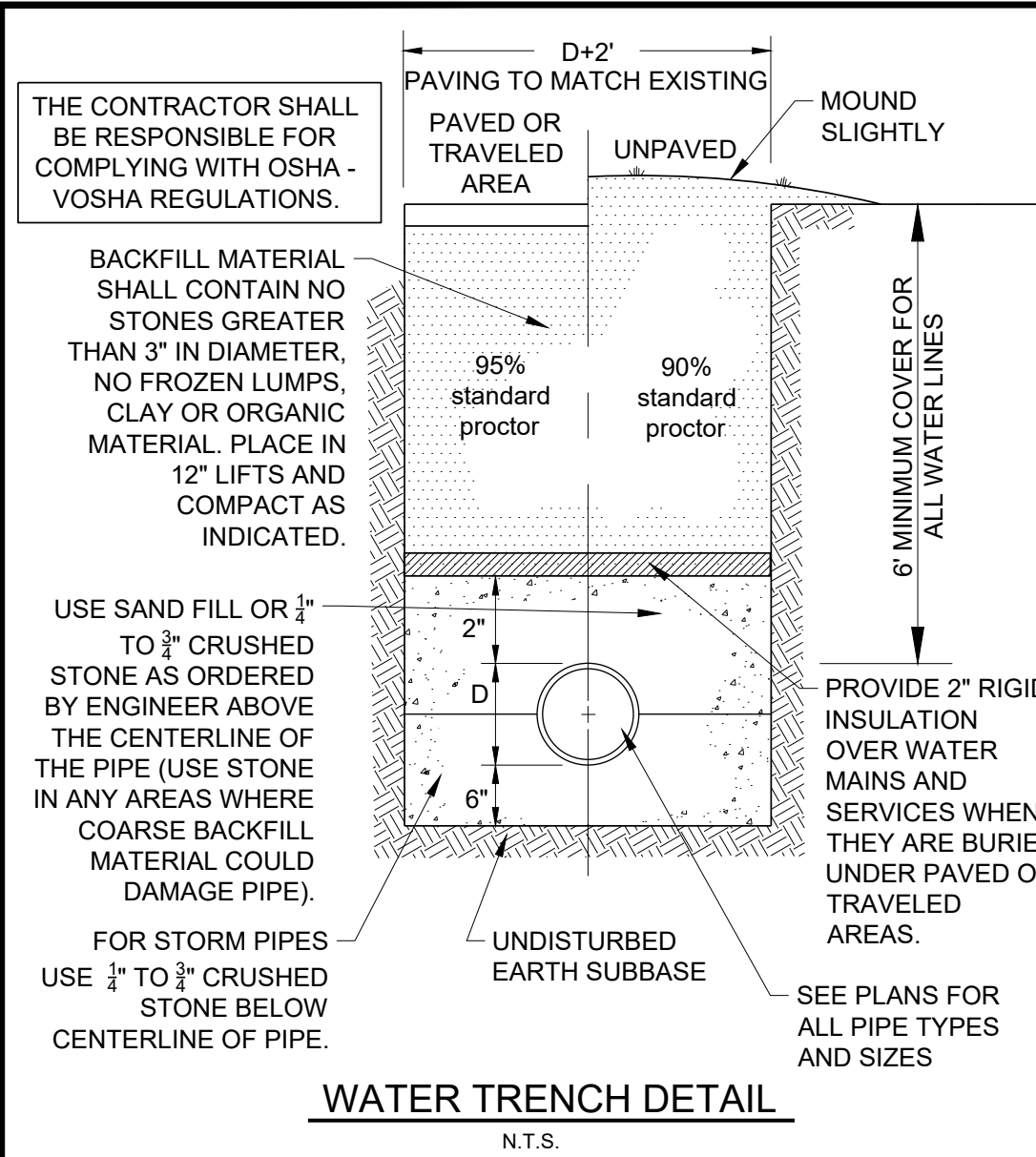
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- NOTES**
- THE CONTRACTOR SHALL CONFIRM ALL VALVE SPECIFICATIONS WITH THE MUNICIPALITY PUBLIC WORKS BEFORE ORDERING.
 - GATE VALVES SHALL MEET ALL REQUIREMENTS OF A.W.W.A. C509 AND C515 STANDARDS (LATEST EDITION). VALVES WITH MECHANICAL JOINTS OF SIZES AS REQUIRED ON THE PLANS.
 - ALL VALVES SHALL BE OF CAST OR DUCTILE IRON BODY AND SHALL BE COATED WITH FUSION BONDED EPOXY COMPLYING WITH AWWA C-550 AND BE NSF 61 APPROVED. VALVE SHALL HAVE MANUFACTURER'S NAME, PRESSURE RATING, AND MANUFACTURE DATE CAST ON THE BODY.
 - ALL VALVES SHALL INCLUDE NON-RISING STEM, HIGH STRENGTH BRONZE STEM AND NUT, 100% COATED WEDGE, "O" RING STEM SEALS ABOVE AND BELOW THE THRUST COLLAR, A 2" SQUARE OPERATING NUT, MECHANICAL JOINT ENDS, AND CORROSION RESISTANT STAINLESS STEEL BODY BOLTS AND NUTS.
 - CHECK WITH THE MUNICIPALITY FOR OPENING AND CLOSING ROTATIONS AND MINIMUM WORKING PRESSURE.
 - VALVES SHALL BE EQUIPPED WITH A TWO PIECE, SLIDING TYPE CAST IRON VALVE BOX FOR A MINIMUM 6 FT. OF COVER MATERIAL.

- NOTES FOR CONCRETE**
- BROOM FINISH CONCRETE. CONSTRUCTION JOINTS SHALL BE SPACED MAXIMUM 24' IN ALL DIRECTIONS. SAWCUT CONTROL JOINTS 1/2" DEPTH AT INTERVALS EQUAL TO WIDTH OF SIDEWALK.
 - APPLY SPECICHEM CURE SHIELD, CURE & SEAL AGENT TO ALL CONCRETE SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
 - CONCRETE CONSTRUCTION AND CURING SHALL CONFORM TO SECTION 618.03 OF THE CURRENT VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - CONCRETE MAY NOT BE POURED IF FROST IS PRESENT OR THAWING IN THE SUBGRADE, IF THE TEMPERATURE IS 40° F OR LESS, OR DURING UNSEASONABLE WEATHER CONDITIONS.
 - ALL CONCRETE USED IN THE CONSTRUCTION OF MULTI-USE CONCRETE SHALL BE MADE WITH PORTLAND CEMENT. THE CONCRETE SHALL MEET SECTION 541 OF THE STATE OF VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, HAVE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI, AND MEET THE FOLLOWING MIX DESIGN.

MAX. WATER-CEMENT RATIO (LB./LB.)	0.44
MIN. CEMENT FACTOR (LB/SY.)	660
ENTRAINED AIR CONTENT (%)	5-7
SLUMP (INCHES, BEFORE ADDING HRWR)	2-4
 - CONTRACTOR SHALL POUR AND FINISH ONE SAMPLE PANEL FOR APPROVAL BY OWNER AND ENGINEER. ALL CONCRETE SHALL MATCH THE QUALITY AND APPEARANCE OF THE SAMPLE PANEL. ANY CONCRETE THAT DOES NOT MEET THE STANDARD SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
 - CONCRETE SHALL BE INSTALLED IN ALTERNATING POURS AT CONSTRUCTION JOINTS. REFER TO CONCRETE CONSTRUCTION JOINT/CONTROL JOINT DETAIL.
 - OWNER AND/OR CONTRACTOR IS NOT ALLOWED TO PLACE DEICING MATERIAL ON NEWLY POURED CONCRETE SIDEWALK FOR A PERIOD OF 6 MONTHS.

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-0000000
SPAN: 153-048-16909
Acreage: ±13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

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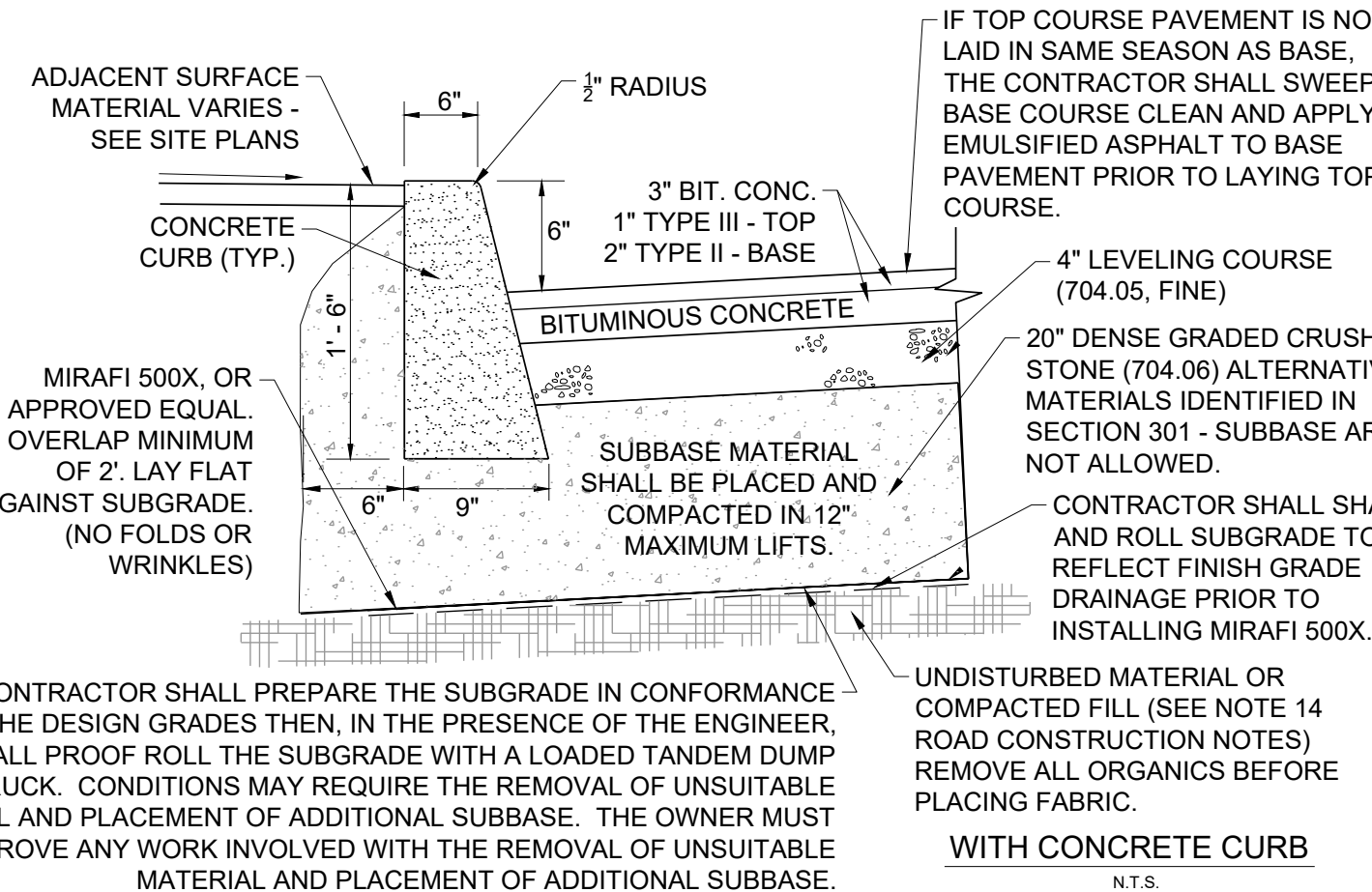
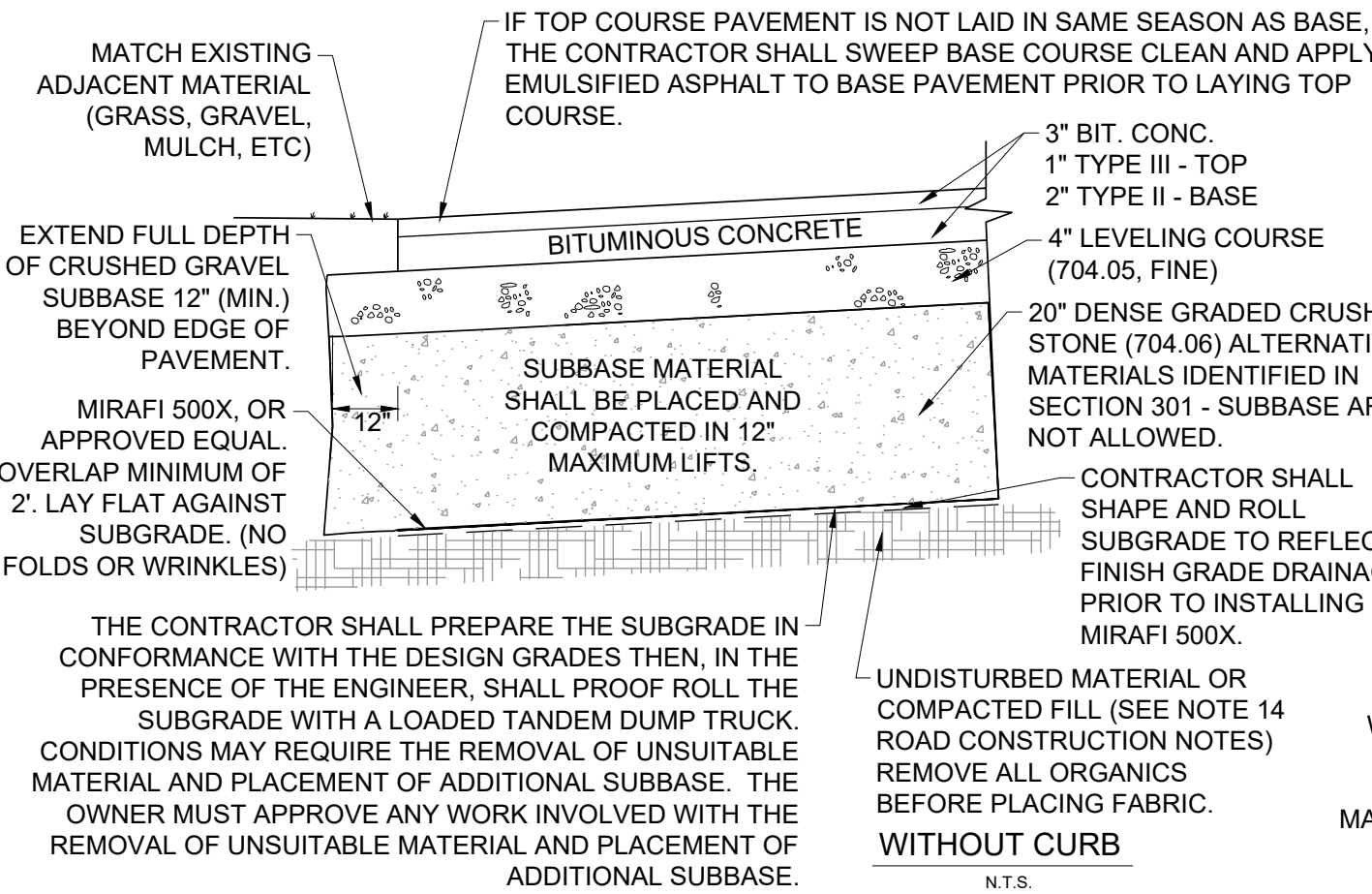
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PROJECT NO.: 21155 SCALE: n/a
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ROAD CONSTRUCTION NOTES

- ALL REFERENCES TO ROAD SHALL APPLY TO PARKING AREAS AS WELL.
- NEW ROAD SHALL BE CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE DRAWINGS. THE ROAD AND UTILITY LOCATIONS SHALL BE AS TYPICALLY DETAILED UNLESS OTHERWISE SHOWN.
- ALL ROAD AND PARKING CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2018, HEREAFTER CALLED VERMONT HIGHWAY SPECIFICATIONS. SPECIFICATIONS FOUND ON THESE PLANS, AND CITY/TOWN SPECIFICATIONS. IN CASE OF CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY AS DETERMINED BY THE ENGINEER. ALL GRAVEL AND STORM SEWER STRUCTURES SHALL BE APPROVED BY TOWN ENGINEER.
- THE CONTRACTOR SHALL FOLLOW VERMONT HIGHWAY SPECIFICATIONS (2018) SECTION 203.11 FOR PLACING AND SPREADING EMBANKMENTS.
- FILL MATERIAL FOR ROAD EMBANKMENT SHALL BE APPROVED BY THE ENGINEER. FILL SHALL BE PLACED IN 12" LIFTS, WETTED AND COMPACTED WITH SATISFACTORY COMPACTION EQUIPMENT TO 95% OF MAXIMUM DENSITY (STANDARD PROCTOR).
- ROAD IN FILL SECTIONS SHALL BE PLACED AND COMPACTED A MINIMUM OF 3 FEET ABOVE TOP OF ANY UTILITY TO BE INSTALLED BEFORE TRENCH IS EXCAVATED FOR PIPE PLACEMENT. IN TRENCHES AND CUT SECTIONS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING AND BRACING TO MAINTAIN COMPLIANCE WITH ALL OSHA/VOSH REGULATIONS.
- METHODS FOR CONSTRUCTION OF SUBGRADE SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 203.12 OR AS DETERMINED BY THE ENGINEER.
- ANY SUBGRADE OR SUBBASE DISTURBED BY CONTRACTOR, OR RENDERED UNSUITABLE BY CONSTRUCTION MACHINERY, SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR BACKFILL AT THE CONTRACTOR'S EXPENSE. THE SUBGRADE SHALL BE COMPACTED TO ATTAIN AT LEAST 95% OF THE MAXIMUM DENSITY (STANDARD PROCTOR)

- BEFORE PLACING ROAD OR EMBANKMENT MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF COMPACTION IN THE ROAD AND UTILITY TRENCHES.
 - SAND FILL SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 703.03, TABLE 703.03A. GRANULAR BORROW SHALL CONFORM TO THE VERMONT HIGHWAY SPECIFICATIONS 703.04 GRANULAR BORROW, TABLE 703.04A.
 - GRAVEL SUBBASE FOR PAVEMENT SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 704.05, TABLE 704.05A, COARSE.
 - LEVELING COURSE SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 704.05, TABLE 704.05A, FINE. SHOULDERS SHALL CONFORM TO SECTION 704.12, AGGREGATE FOR SHOULDERS.
 - BITUMINOUS CONCRETE PAVEMENT SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) SECTION 404 AND 406. BINDER COURSE SHALL BE TYPE II, AND FINISH WEARING COURSE SHALL BE TYPE III OR IV. BASE COURSE PAVING TO BE PLACED FIRST YEAR, SURFACE COURSE TO BE PLACED THE SECOND OR THIRD YEAR, DETERMINED BY THE ENGINEER.
 - EMBANKMENT FILL FOR ROAD AND PARKING SHALL BE A SIEVE SPECIFICATION AS FOLLOWS:
- | SIEVE | % FINER |
|-------|------------|
| 4" | 100 |
| 2" | 85-100 |
| #4 | 60-100 |
| #200 | 12 MAXIMUM |
- IF PROOF ROLL FAILS, CONTRACTOR SHALL REMOVE THE SITE SOIL AND REPLACE IT WITH SAND WITH THE ABOVE SPEC. UNTIL A PROOF ROLE CAN BE PLACED WITHOUT FAILING. ENGINEER WILL JUDGE PASS/FAILURE OF PROOF ROLE, THIS WILL BE PERFORMED WITHOUT FURTHER COSTS TO THE OWNER.



GRAVEL NOTES

- THE CONTRACTOR TO TAKE SIEVE ANALYSIS OF GRAVEL AS SOON IT ARRIVES ON SITE.
- TRAVEL OVER GRAVEL WITH ANY VEHICLE TRACKING SOIL PRIOR TO PLACEMENT OF PAVEMENT IS PROHIBITED.
- IF GRAVEL IS CONTAMINATED AFTER PLACEMENT, THE SITE CONTRACTOR SHALL BE RESPONSIBLE REMOVAL OF ALL CONTAMINATED GRAVEL AND PAYING FOR ALL RECOMMENDED SIEVE ANALYSIS AS DETERMINED BY THE ENGINEER.

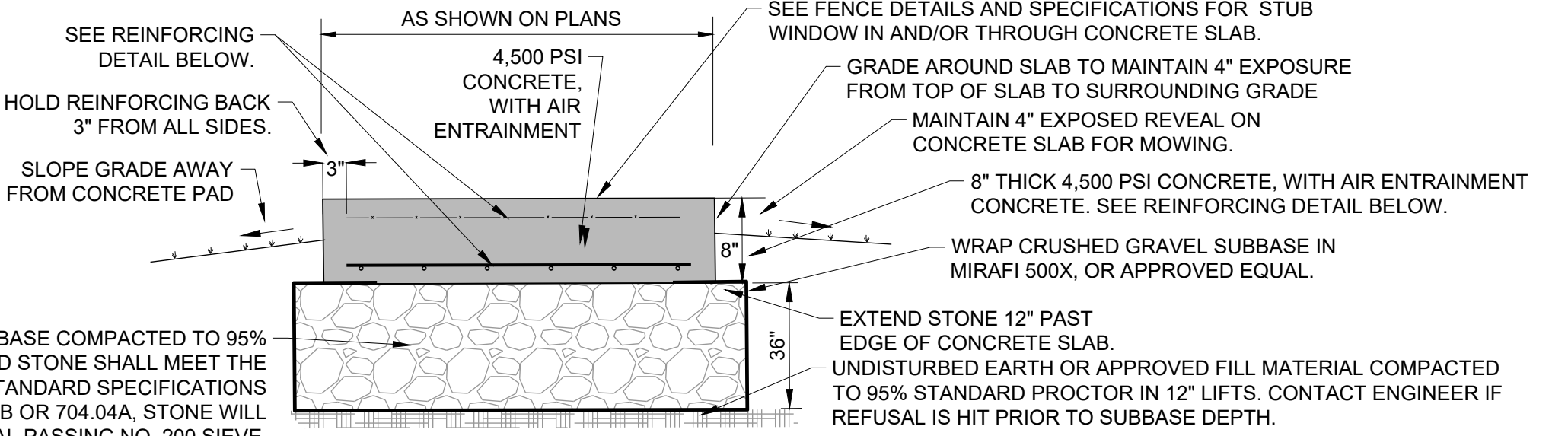
NOTES FOR CONCRETE CURB

- BROOM FINISH CONCRETE. ALL JOINTS TO BE TOOL FINISHED. EXPANSION/CONTRACTION JOINTS EVERY 20' WITH 1/2" JOINT FILLER. SCORE 1/3 TOTAL DEPTH AT 10' INTERVALS.
- APPLY 2 COATS OF SPECHEM CURE/SEAL CURE/SEAL COMPOUND TO ALL CONCRETE SURFACES. PER THE MANUFACTURER'S SPECIFICATIONS.
- CONCRETE MAY NOT BE POURED IF FROST IS PRESENT OR THAWING IN THE SUBGRADE, IF THE TEMPERATURE IS 40° F OR LESS, OR DURING UNSEASONABLE WEATHER CONDITIONS.

PAVEMENT MARKING NOTES

- TYPICAL TOWN OF COLCHESTER PARKING SPACE IS 9'-0" CENTER OF LINE TO CENTER OF LINE MARKED WITH 4" WIDE YELLOW OR WHITE PAINT.
- ADA SPACE IS YELLOW/WHITE STENCIL, YELLOW/WHITE TRIM. COORDINATE EXACT REQUIREMENTS WITH TOWN OF COLCHESTER.
- PAINT FOR PAVEMENT MARKINGS SHALL BE HYDROPHAST WATERBORNE TRAFFIC PAINT BY FRANKLIN PAINT COMPANY. IT SHALL BE REFLECTIVE, VOC COMPLIANT FAST DRYING, 100% ACRYLIC WATERBORNE TRAFFIC PAINT. PAINT FOR STOP BARS AND CROSSWALKS SHALL BE WHITE ALL OTHER LINE STRIPING SHALL BE YELLOW. CONFIRM PAINT COLOR WITH TOWN OF COLCHESTER AND OWNER.
- TRAFFIC PAINT SHALL BE APPLIED WITH A UNIFORM THICKNESS AND AT A RATE SUCH THAT NO PAVEMENT IS VISIBLE AFTER DRYING. ADDITIONAL PAINT APPLICATION WILL BE REQUIRED IF UNDERLYING PAVEMENT IS VISIBLE.

NOTE: STRUCTURES, FENCING, AND/OR BOLLARDS ARE PROHIBITED FROM BEING MOUNTED DIRECTLY TO THE CONCRETE PAD. STRUCTURES, FENCING, AND BOLLARDS SHOULD BE DESIGNED TO STUB THROUGH CONCRETE SLAB WITH THEIR SUPPORTS EXTENDING BELOW THE PAD.



NOTES

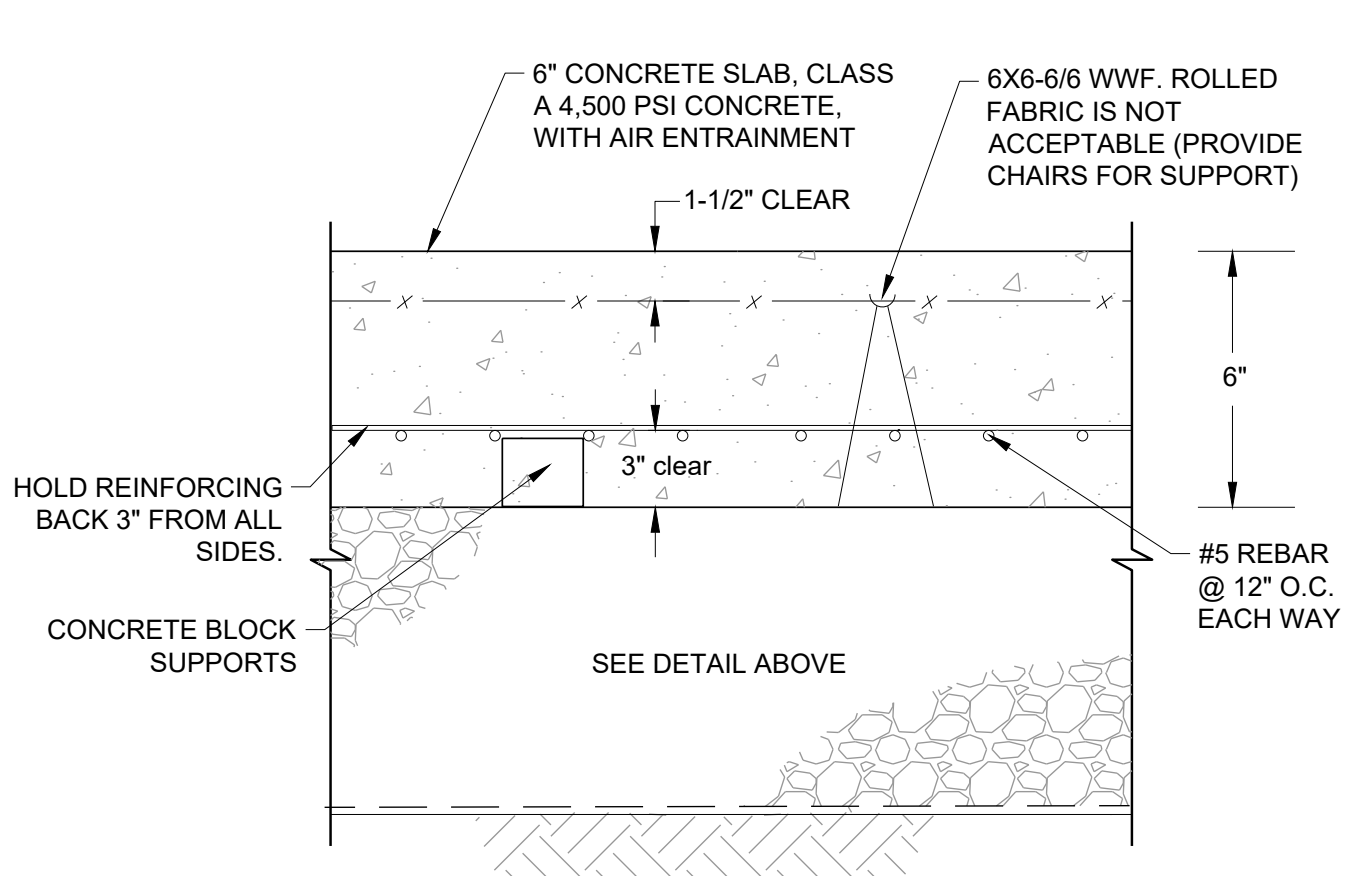
- COLD WEATHER CONSTRUCTION PROCEDURES:
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTINUOUSLY PROTECT SOILS, CONCRETE, MASONRY AND OTHER BUILDING MATERIALS FROM DAMAGE DUE TO COLD TEMPERATURES UNTIL THE SLAB HAS BEEN TURNED OVER TO THE OWNER.
 - THIS SHALL INCLUDE TEMPORARY ENCLOSURES, INSULATED BLANKETS AND TEMPORARY HEATING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ANY DAMAGED OR DEFECTIVE WORK, IN A MANNER APPROVED BY THE ARCHITECT/ENGINEER.
 - ALL PROTECTIVE AND CORRECTIVE WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- PERFORM WORK IN ACCORDANCE WITH ACI 301 STANDARDS AND RECOMMENDED PRACTICES.
- ACQUIRE CEMENT AND AGGREGATE FROM SAME SOURCE FOR ALL WORK.
- CONFORM TO ACI 305R WHEN CONCRETING DURING HOT WEATHER.
- CONFORM TO ACI 306R WHEN CONCRETING DURING COLD WEATHER.
- CEMENT ASTM C150, TYPE I, GRAY - NORMAL; DO NOT CHANGE SOURCE OF MANUFACTURER OF CEMENT DURING THE COURSE OF THE WORK.
- FINE AND COARSE AGGREGATES ASTM C33.
- WATER CLEAN, POTABLE AND NOT DETRIMENTAL TO CONCRETE.
- AIR ENTRAINMENT ASTM C260.
- CHEMICAL ASTM C494 TYPE A - WATER REDUCING.
- BONDING AGENT SIKA ARMATEC 110 EPOCEM BONDING AGENT, NO-SOLVENT THREE COMPONENT EPOXY AS MANUFACTURED BY SIKA OR EQUIVALENT.
- NON-SHRINK GROUT PREMIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 2,400 PSI IN 48 HOURS AND 7,000 PSI IN 28 DAYS; MANUFACTURED BY FIVE STAR PRODUCTS, INC. OR APPROVED EQUIVALENT.
- FORM RELEASE AGENT WATER BASED, NON TOXIC, ENVIRONMENTALLY FRIENDLY PRODUCT WHICH WILL NOT STAIN CONCRETE, OR ABSORB MOISTURE, OR IMPAIR NATURAL BONDING OR COLOR CHARACTERISTICS OF COATING INTENDED FOR USE ON CONCRETE.
- MIX CONCRETE IN ACCORDANCE WITH ACI 304. DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94.
- THE MIX DESIGN SHALL MEET THE REQUIREMENTS OF ACI 318, CHAPTER 19. INCLUDE THE WATER-CEMENT RATIO, AIR CONTENT, SLUMP, ADMIXTURES, AND THE PLANT TO BE USED.
- CONCRETE MIXTURES SHALL CONSIST OF THE APPROPRIATE PROPORTIONS OF PORTLAND CEMENT, WATER, COARSE AND FINE AGGREGATE, AIR ENTRAINING AGENT AND WATER REDUCING AGENT FOR THE INTENDED APPLICATION.
- PROVIDE CONCRETE TO THE FOLLOWING CRITERIA
 - COMPRESSIVE STRENGTH AT 28 DAYS SLABS ON GRADE = 4,500 PSI WITH AIR ENTRAINMENT
 - SLUMP 2-4 INCHES BEFORE ADDITION OF WATER REDUCER, 6-8 INCHES AFTER THE ADDITION OF WATER REDUCER.
 - MAXIMUM WATER TO CEMENT RATIO = 0.5
- USE ACCELERATING ADMIXTURES IN COLD WEATHER ONLY WHEN APPROVED BY ARCHITECT/ENGINEER. USE OF ADMIXTURES WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS.
- USE CALCIUM CHLORIDE SHALL NOT BE PERMITTED.
- USE SET RETARDING ADMIXTURES DURING HOT WEATHER ONLY WHEN APPROVED BY ARCHITECT/ENGINEER.

ARCHITECT/ENGINEER

- ADD AIR ENTRAINING AGENT TO NORMAL WEIGHT CONCRETE MIX FOR WORK EXPOSED TO EXTERIOR. DO NOT ADD AIR ENTRAINMENT TO INTERIOR SLABS.
- PLACE CONCRETE IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 304.
- ENSURE REINFORCEMENT, INSERTS, EMBEDDED PARTS, FORMED EXPANSION AND CONTRACTION JOINTS, ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- DO NOT INTERRUPT SUCCESSIVE PLACEMENT; DO NOT PERMIT COLD JOINTS TO OCCUR.
- SCREED SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS OF MAXIMUM 1/4 INCH IN 10 FT.
- FLOOR SLABS SHALL BE FINISHED AS FOLLOWS IN ACCORDANCE WITH ACI 301 AS FOLLOWS: EXTERIOR SURFACES = BROOM FINISH PERPENDICULAR TO PEDESTRIAN TRAFFIC. SAWCUT CONTROL JOINTS 4" DEPTH AT INTERVALS OF 20'.
- IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.
- MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
- CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 305, ACI 306, AND ACI 308.
- OWNER AND/OR CONTRACTOR IS NOT ALLOWED TO PLACE DEICING MATERIAL ON NEWLY PORED CONCRETE FOR A PERIOD OF 6 MONTHS.
- APPLY 2 COATS OF SPECHEM CURE/SEAL CURE/SEAL COMPOUND TO ALL CONCRETE SURFACES. PER MANUFACTURER'S SPECIFICATIONS. PRODUCT SHALL BE APPLIED AFTER 7 DAY CURING IS COMPLETE.

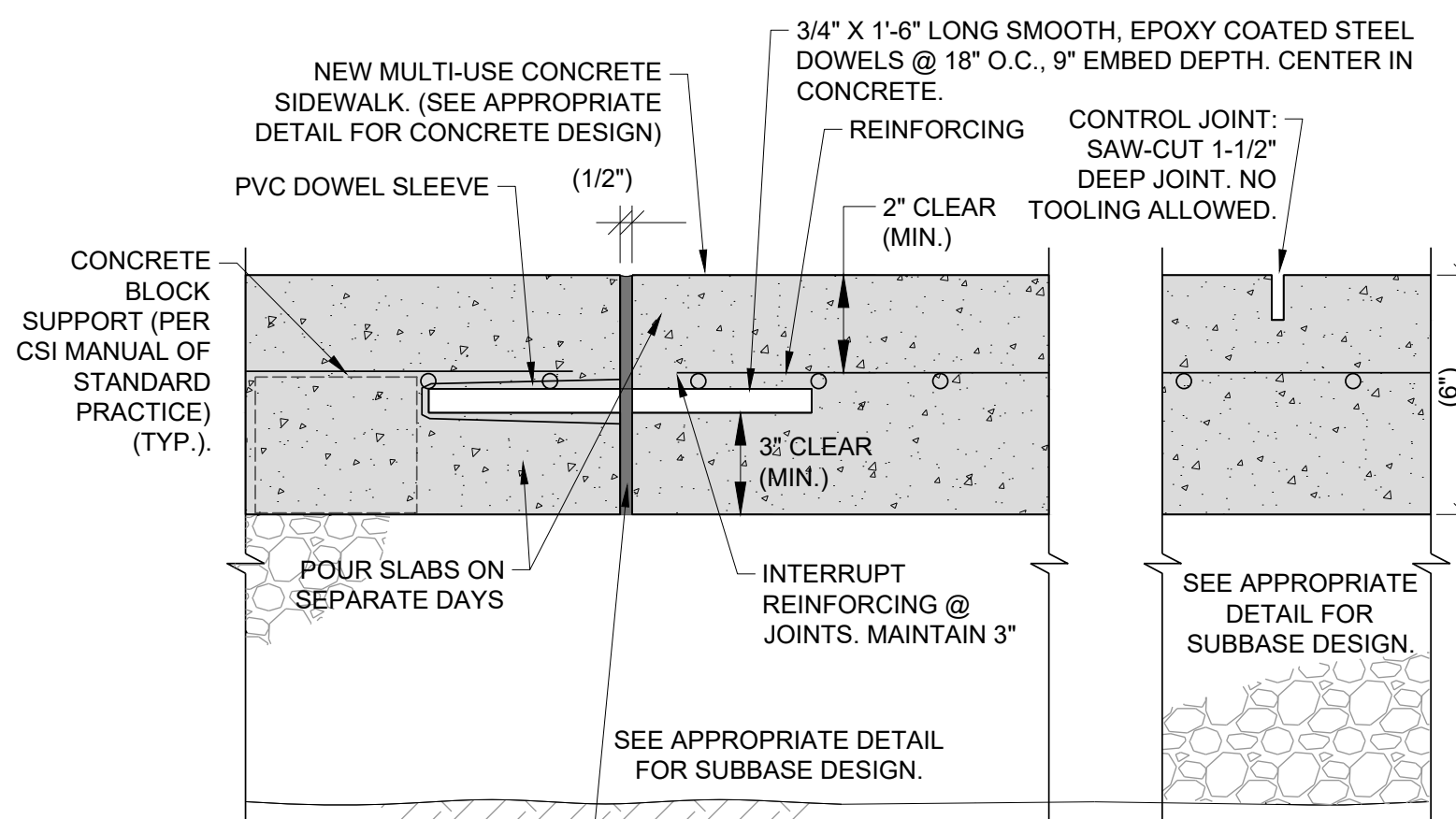
CONTRACTOR SHALL MATCH EXISTING SUBBASE AND PAVEMENT DEPTHS. COORDINATE WITH THE TOWN OF COLCHESTER.

TYPICAL ROAD CROSS SECTION DETAILS - WITH CONCRETE CURBS AND WITHOUT CURBS



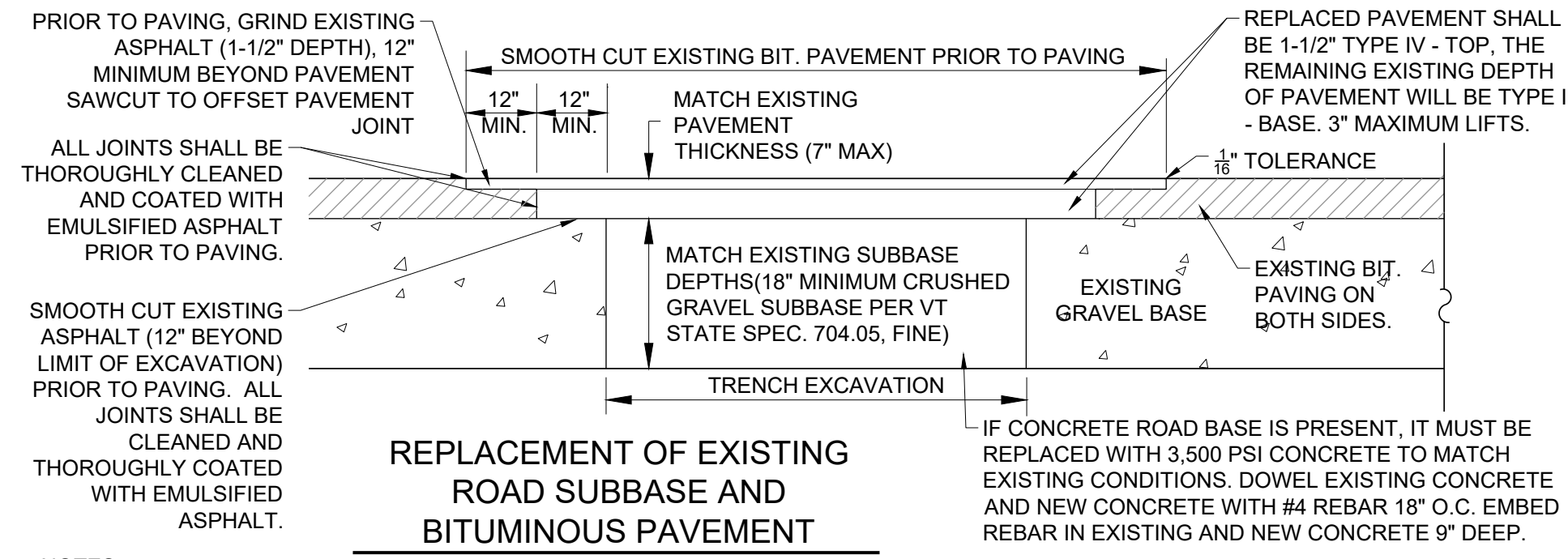
NOTES

- PRECAST CONCRETE MAY BE USED FOR EQUIPMENT PAD. SHOP DRAWINGS FOR ALL PRECAST CONCRETE SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO PRODUCTION OF PRECAST.



- CONTRACTOR TO USE THIS PINNING DETAIL TO PIN NEW CONCRETE TO NEW CONCRETE (WALK TO WALK, WALK TO BUILDINGS, WALK TO RETAINING WALLS, STAIRS, ETC).

CONCRETE SLAB DETAIL FOR EQUIPMENT PAD (DUMPSITE LOCATION)
N.T.S.



NOTES

- SET UP AND MAINTAIN SIGNS AND OTHER SAFETY CONTROL DEVICES.
- RESHAPE HOLE PATCH AREA BY CUTTING WITH A CONCRETE SAW INTO SQUARE OR RECTANGULAR SHAPE AND CUT SIDE FACED VERTICALLY. RESHAPE DOWNWARD SOLID MATERIAL AND AROUND HOLE TO SOUND PAVEMENT.
- BACKFILL TRENCH IN 6" LIFTS AND COMPACT EACH TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
- REMOVE ALL LOOSE MATERIAL AND THOROUGHLY SWEEP THE HOLE AREA. CLEAN ANY MUD AND STANDING WATER.
- APPLY LIQUID ASPHALT TRACK TO VERTICAL FACES IN UNIFORM MANNER. DO NOT PUDDLE TRACK COAT ON BOTTOM HOLE.
- FILL TOP OF HOLE WITH TYPE IV BITUMINOUS CONCRETE AND COMPACT IN LIFTS NO MORE THAN 2" THICK. EACH LIFT SHOULD BE THOROUGHLY COMPACTED WITH A VIBRATORY PLATE COMPACTOR OR A PORTABLE ROLLER. EXPERIENCE HAS SHOWN THAT 15 TO 20 PASSES WITH THE VIBRATORY ROLLER AND MIX TEMPERATURE ABOVE 250°F (121°C) ARE NECESSARY TO ENSURE GOOD COMPACTION. HAND TAMP SHOULD ONLY BE USED FOR SMALL AREAS LESS THAN 1 S.F.
- CLEAN UP AREA. DO NOT LEAVE EXCESS FILL OR EXCAVATED MATERIAL ON THE PAVEMENT. REMOVE SAFETY SIGNS.

CONSTRUCTION REQUIREMENTS & MATERIALS FOR INGROUND WASTEWATER SYSTEM, SEE PAGE C-2.03

- EXCAVATION OF THE TRENCHES SHALL NOT RESULT IN COMPACTED OR SMEARED SOILS. WHEN TRENCHES HAVE BEEN EXCAVATED, THE SIDES AND BOTTOM SHALL BE RAKED TO SCARIFY ANY SMEARED SOIL SURFACES.
- CONSTRUCTION EQUIPMENT NOT NEEDED TO CONSTRUCT THE SYSTEM SHOULD BE KEPT OFF THE AREA TO BE USED FOR THE ABSORPTION TRENCH SYSTEM TO PREVENT UNDESIRABLE COMPACTION OF THE SOILS. CONSTRUCTION SHALL NOT BE INITIATED WHEN THE SOIL MOISTURE CONTENT IS HIGH. (IF A FRAGMENT OF SOIL OCCURRING APPROXIMATELY 9" BELOW THE SURFACE CAN EASILY BE ROLLED INTO A WIRE, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR CONSTRUCTION PURPOSES).
- A MINIMUM OF 24 INCHES OF CRUSHED STONE SHALL BE PLACED BELOW THE DISTRIBUTION PIPE INVERT. ALL CRUSHED STONE USED SHALL BE CLEAN, WASHED, DURABLE AND SIZED BETWEEN THREE-FOURTHS (3/4") OF AN INCH TO ONE AND ONE-HALF (1 1/2") INCHES IN DIAMETER.
- THE DISTRIBUTION PIPING SHALL BE CAREFULLY PLACED ON THE BEDDING AT A UNIFORM SLOPE AND MUST BE PLACED ALONG THE CENTER LINE OF EACH TRENCH. THE ENDS OF DISTRIBUTION LINES (LATERALS) SHALL BE CAPPED OR PLUGGED BUT, WHEN THEY ARE AT EQUAL ELEVATIONS, THEY SHOULD BE CONNECTED. PIPE USED FOR DISTRIBUTION LINES SHALL BE RIGID PLASTIC PIPE, SCHEDULE 40 OR 80, DIAMETER OF PIPE OUTLINED IN DETAILS, AND MEET THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS OR THOSE OF AN EQUIVALENT TESTING LABORATORY. FITTINGS USED IN THE DISPOSAL FIELD SHALL BE COMPATIBLE WITH THE MATERIALS USED IN THE DISTRIBUTION LINES.

- DURING CONSTRUCTION, THE PRESSURE DISTRIBUTION PIPE SHALL BE PLACED IN CRUSHED STONE WITH THE HOLES FACING UPWARD TO FACILITATE TESTING OF THE SYSTEM FOR EVEN DISTRIBUTION AND ADEQUATE RESIDUAL PRESSURE. UPON COMPLETION OF THE INSTALLATION OF THE DISTRIBUTION PIPING, THE NETWORK SHALL BE TESTED WITH CLEAN WATER TO ASSURE THAT DISTRIBUTION IS COMPLETE AND EQUAL AND TO DEMONSTRATE THAT THE DIFFERENCE IN DISCHARGE RATE BETWEEN ANY TWO ORIFICES WITHIN THE MOUND IS LESS THAN 15%. THERE SHALL BE A MINIMUM RESIDUAL PRESSURE OF ONE P.S.I. AT EACH ORIFICE IN THE DISTRIBUTION NETWORK.
- FOLLOWING SUCCESSFUL DISTRIBUTION TESTING THE LATERALS SHALL BE ROTATED WITH THE HOLES FACING DOWNWARD AND THE PIPING GLUED IN THAT POSITION. THE ENDS OF ALL DISTRIBUTION PIPES SHALL BE CAPPED AND THE DISTRIBUTION PIPING COVERED WITH AT LEAST TWO (2) INCHES OF CRUSHED STONE.
- OBSERVATION WELLS SHALL BE INSTALLED IN THE TRENCHES TO MONITOR THE DEPTH OF PONDING IN THE LEACHFIELD. THE WELLS SHALL EXTEND FROM GROUND SURFACE (OR ABOVE) TO THE BOTTOM OF STONE. THE NUMBER AND LOCATION OF THE OBSERVATIONS WELLS SHALL BE SUBJECT TO APPROVAL BY THE SECRETARY.
- AFTER THE PLACEMENT OF CRUSHED STONE AND THE DISTRIBUTION PIPING, THE FIELD MUST BE TOPPED WITH FILTER FABRIC TO PREVENT SOIL FROM MIGRATING INTO THE STONE, BUT PERMITTING FREE AERATION. SIX (6) TO TWELVE (12) INCHES OF SOIL SHALL BE PLACED ON TOP OF THE FILTER FABRIC. THE TOP SEVERAL INCHES SHALL BE TOP SOIL AND THE FIELD(S) MUST BE SEEDED WITH GRASS TO STABILIZE THE FIELD, PREVENT EROSION AND MAXIMIZE AERATION.

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ±13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

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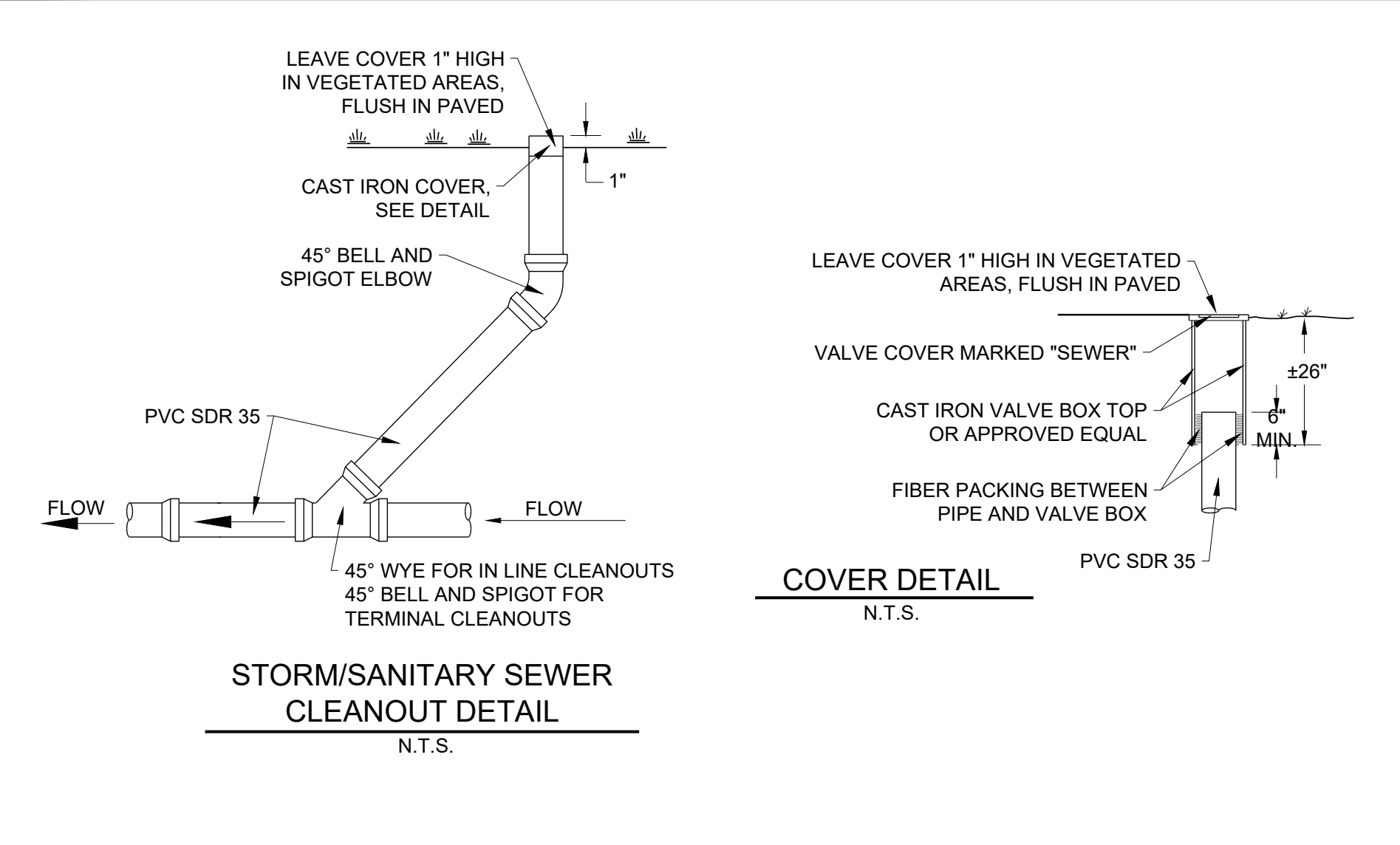
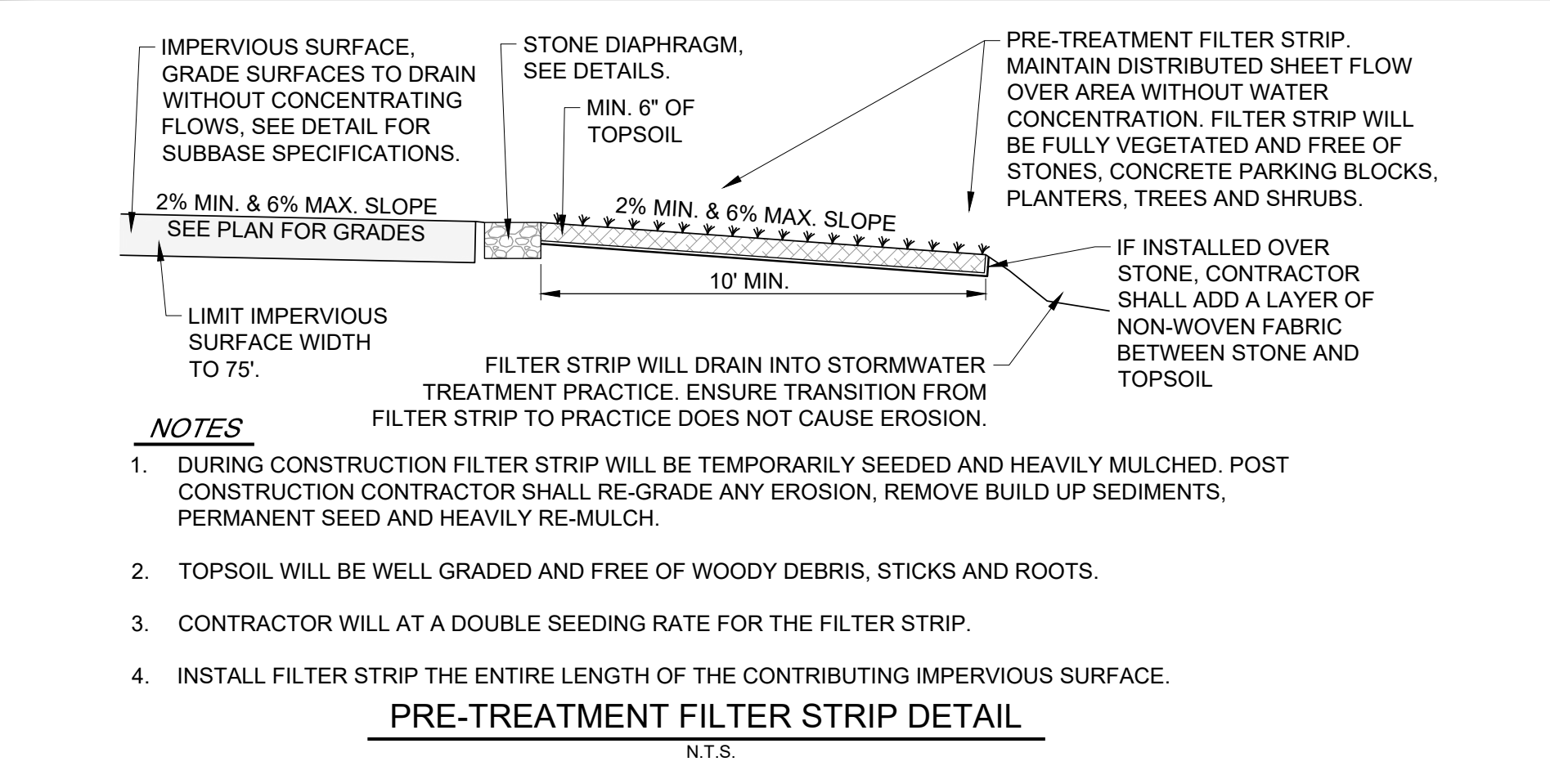
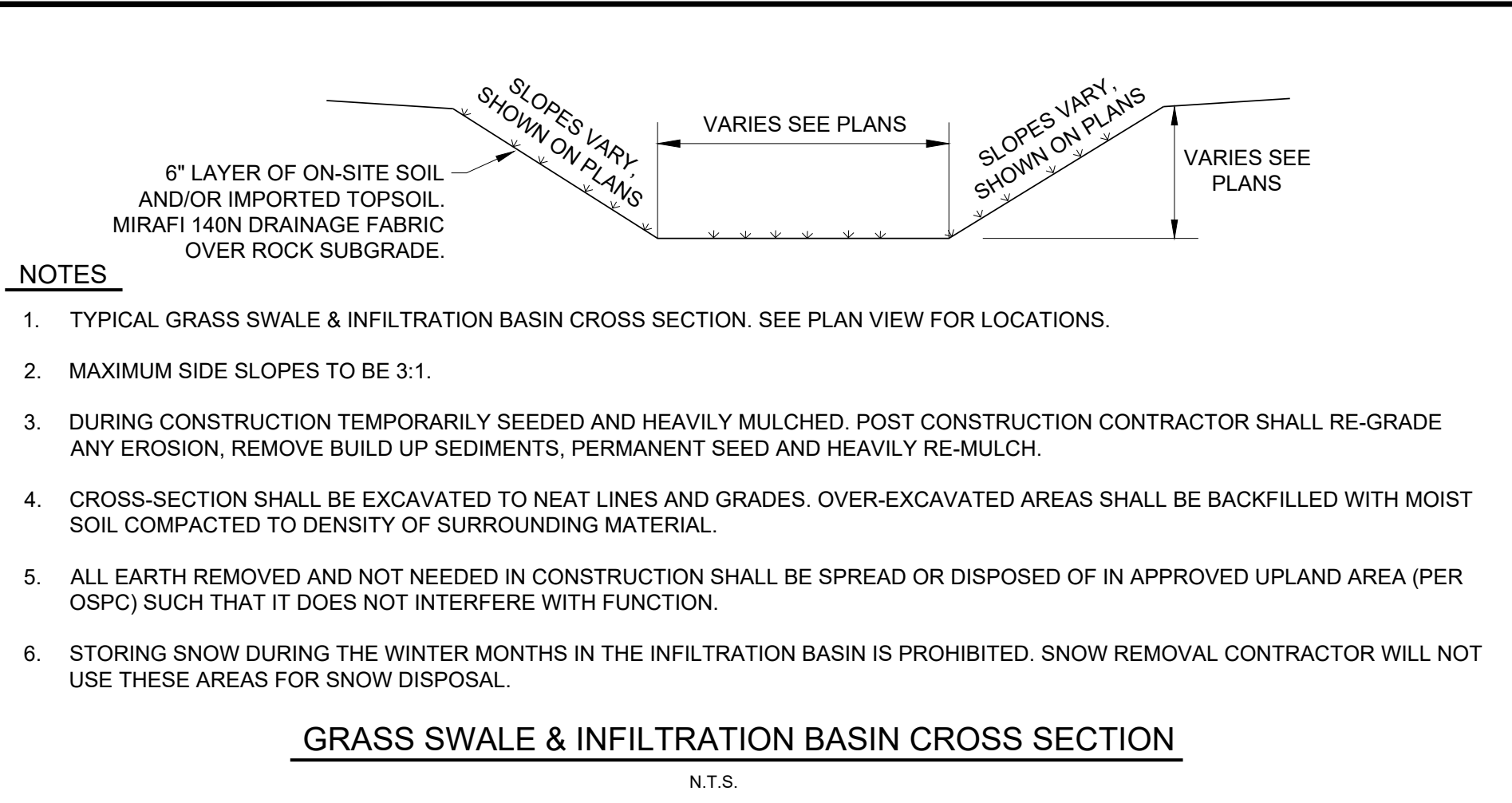
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DATE ISSUED: 12/23/22

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PROJECT NO.: 21155 SCALE: n/a

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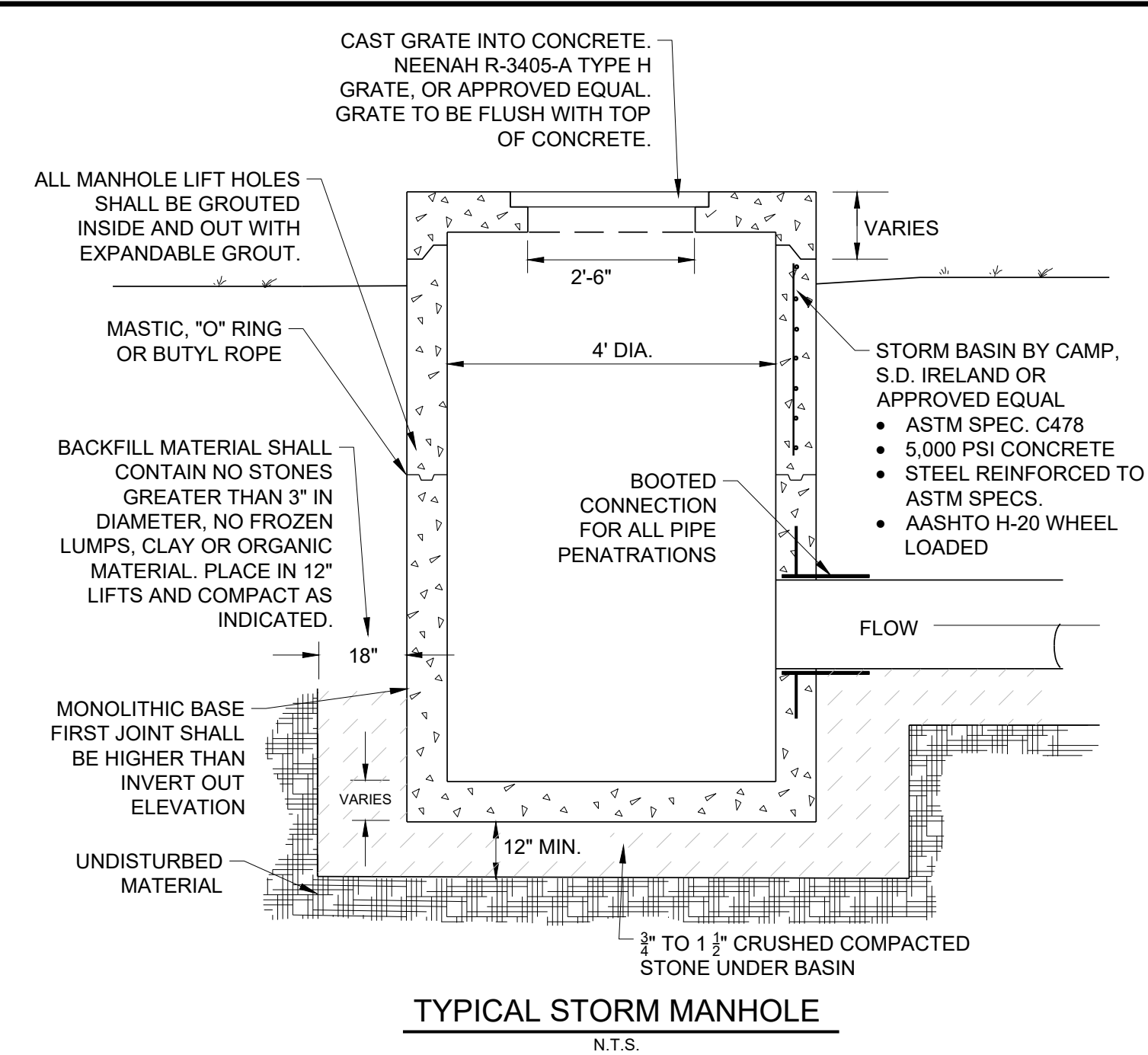


STORMWATER MAINTANCE NOTES

- FOREBAY PRE-TREATMENT AREAS:**
 - MONITOR FOR ACCUMULATION OF SEDIMENT. CLEAN WHEN 50% FULL OR AS NEEDED.
 - INSPECT AND REPAIR ANY NOTED EROSION.
- DISCONNECTION AREAS**
 - INSPECT AND REPAIR ANY EROSION AND RE-SEED BARE SPOTS AS NEEDED
 - NOTHING MAYBE INSTALLED IN THIS AREA IN THE FUTURE, IT MUST REMAIN VEGETATED
- INFILTRATION BASIN**
 - INSPECT FOR PROLONGED STANDING WATER AFTER RAIN EVENTS
 - INSPECT FOR EROSION, ACCUMULATED SEDIMENT AND ENSURE PLANTS ARE HEALTHY. REMOVE SEDIMENT AND REPLACE PLANTS AS NECESSARY.
- PRE-TREATMENT FILTER STRIP**
 - INSPECT AND REPAIR ANY EROSION AND RE-SEED BARE SPOTS AS NEEDED
 - MAINTAIN SHEET FLOW ACROSS THE AREA. REPAIR ALL AREAS WHERE WATER MAY HAVE CONCENTRATED

ADDITIONAL SOILS RESTORATION

- SOIL DEPTH AND QUALITY SHALL BE ESTABLISHED TOWARDS THE END OF CONSTRUCTION, AND ONCE ESTABLISHED, BE PROTECTED FROM COMPACTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE POST CONSTRUCTION SOIL DEPTH AND QUALITY.
- VERIFICATION SHALL BE VIA A SAMPLING STRIP THAT INCLUDES NINE 8" DEEP TEST HOLES PER ACRE OF AREA SUBJECT TO THE STANDARD.
- TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEL DRIVEN SOLELY BY THE INSPECTOR'S WEIGHT AND SHALL BE AT LEAST 50 FEET APART FROM EACH OTHER.
- ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS (LOD) ARE SUBJECT TO THE POST-CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD
- THERE IS NO PROPOSED EXCAVATION OR RE-GRADING ANTICIPATED WITHIN THE SOLAR ARRAY BEYOND WHAT IS NECESSARY FOR SETTING POSTS AND INSTALLING CONDUIT. IT IS ANTICIPATED THAT SOME GROUND DISTURBANCE WILL OCCUR WITHIN THE ARRAY FROM FREQUENT TRACKING OF EQUIPMENT. THE CONTRACTOR AND ENGINEER SHALL EVALUATE GROUND DISTURBANCE WITHIN THE SOLAR ARRAY AND EITHER:
 - CONFIRM THAT SOILS HAVE NOT BEEN EXCESSIVELY COMPACTED VIA TEST PITS AND PHOTO DOCUMENTATION.
 - IMPLEMENT THE MEASURES OUTLINED IN THE "POST CONSTRUCTION SOIL DEPTH & QUALITY STANDARD" IF EXCESSIVE COMPACTION HAS OCCURRED.



POST-CONSTRUCTION SOIL DEPTH AND QUALITY NOTES

SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE.

SOIL QUALITY: ALL AREAS SUBJECT TO THE STANDARD SHALL DEMONSTRATE THE FOLLOWING:

A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 4% DRY WEIGHT IN PLANTING BEDS AND TURF AREAS. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF 4 INCHES, EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA.

COMPOST AND OTHER MATERIALS SHALL BE USED THAT MEET THE FOLLOWING REQUIREMENTS:

- THE COMPOST OR OTHER MATERIALS SHALL HAVE A CARBON TO NITROGEN RATIO BELOW 25:1.
- COMPOST SHALL MEET THE DEFINITION OF "COMPOST" IN THE AGENCY'S SOLID WASTE MANAGEMENT RULES OR SHALL MEET THE CONTAMINANT STANDARDS IN THE VERMONT SOLID WASTE MANAGEMENT RULES §6-1104(G)(6-7), §6-1105(E)(8-9), AND §6-1106(E)(7-9). COMPOST OR OTHER ORGANIC MATERIALS MAY BE AMENDED TO MEET THE FOREGOING REQUIREMENTS.
- EXCEPTIONAL QUALITY BIOSOLIDS (EQ BIOSOLIDS) MAY BE USED AS A SOIL AMENDMENT, AT A MAXIMUM PROPORTION OF 35% OF THE TOTAL SOLID VOLUME, AND SHALL BE WELL MIXED WITH EXISTING SOIL BEFORE OR DURING APPLICATION.
- THE RESULTING SOIL SHALL BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

THE SOIL QUALITY REQUIREMENTS SHALL BE MET BY USING ONE OR A COMBINATION OF THE FOLLOWING METHODS:

- OPTION 1: LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION. FAILURE TO ESTABLISH AND MAINTAIN EXCLUSIONARY CONTROLS AROUND THESE AREAS DURING THE CONSTRUCTION PHASE MAY TRIGGER THE REQUIREMENT TO RESTORE SOILS PER ONE OF THE FOLLOWING OPTIONS.
- OPTION 2: AMEND EXISTING SITE TOPSOIL OR SUBSOIL IN PLACE.
 - SCARIFY OR TILL SUBSOILS TO 4 INCHES OF DEPTH OR TO DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 8 INCHES OF UNCOMPACTED SOIL AFTER CALCULATED AMOUNT OF AMENDMENT IS ADDED. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION.
 - AMEND SOIL TO MEET ORGANIC CONTENT REQUIREMENTS:
 - PRE-APPROVED RATE: PLACE 1 INCH OF COMPOSTED MATERIAL WITH AN ORGANIC MATTER CONTENT BETWEEN 40 AND 65% INTO THE TOPSOIL AT A RATIO 1:3, OR
 - CALCULATED RATE: PLACE CALCULATED AMOUNT OF COMPOSTED MATERIAL OR APPROVED ORGANIC MATERIAL AND ROTOTILL INTO DEPTH OF SOIL NEEDED TO ACHIEVE 4 INCHES OF SETTLED SOIL AT 4% ORGANIC CONTENT. *CONTRACTOR TO PROVIDE CALCULATION AND SITE SKETCH INDICATING AREAS USED FOR CALCULATIONS.
 - RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS LARGER THAN 2 INCHES IN DIAMETER; AND
 - WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
- OPTION 3: REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING.
 - STOCKPILE SOIL ON SITE IN A DESIGNATED CONTROLLED AREA, AT LEAST 50 FEET FROM SURFACE WATERS, WETLANDS, FLOODPLAINS, OR OTHER CRITICAL RESOURCE AREAS;
 - SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4 INCHES. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION;
 - STOCKPILED TOPSOIL SHALL ALSO BE AMENDED, IF NEEDED, TO MEET THE ORGANIC CONTENT REQUIREMENTS:
 - PRE-APPROVED RATE: COMPOST SHALL BE INCORPORATED WITH AN ORGANIC MATTER CONTENT BETWEEN 40 AND 65% INTO THE TOPSOIL AT A RATIO 1:3, OR
 - CALCULATED RATE: INCORPORATE COMPOSTED MATERIAL OR APPROVED ORGANIC MATERIAL AT A CALCULATED RATE TO ACHIEVE 4 INCHES OF SETTLED SOIL AT 4% ORGANIC CONTENT.*
 - REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING, SCREEN TOPSOIL, AND;
 - RAKE TO LEVEL, AND REMOVE SURFACE ROCKS LARGER THAN 2 INCHES IN DIAMETER.
 - OPTION 4: IMPORT TOPSOIL MIX, OR OTHER MATERIALS FOR MIXING, INCLUDING COMPOST, OF SUFFICIENT ORGANIC CONTENT AND DEPTH.
 - SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4 INCHES. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION;
 - PLACE 4 INCHES OF IMPORTED TOPSOIL MIX ON SURFACE. THE IMPORTED TOPSOIL MIX SHALL CONTAIN 4% ORGANIC MATTER. SOILS USED IN THE MIX SHALL BE SAND OR SANDY LOAM AS DEFINED BY THE USDA; SHOP DRAWING SUBMITTAL IS REQUIRED. FIND USDA SIEVE FOR SAND AND SANDY LOAM.
 - RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS LARGER THAN 2 INCHES IN DIAMETER;
 - WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.

SOIL MANAGEMENT

- IDENTIFIES AREAS ON THE SITE SUBJECT TO THE STANDARD;
- SOIL DEPTH AND QUALITY SHALL BE ESTABLISHED TOWARDS THE END OF CONSTRUCTION AND ONCE ESTABLISHED, PROTECTED FROM COMPACTION, SUCH AS FROM LARGE MACHINERY, VEHICLE TRAFFIC, AND FROM EROSION;
- AFTER SOIL AMENDMENTS AND PLACEMENT IS COMPLETE, AND PRIOR TO SEEDING AND MULCHING, CONTRACTOR SHALL PERFORM VERIFICATION SAMPLING IN LOCATIONS INDICATED ON SAMPLING PLAN. VERIFICATION SAMPLING SHALL INCLUDE NINE, 8 INCH DEEP (MIN) TEST HOLES PER ACRE OF AREA SUBJECT TO THE STANDARD. TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEL DRIVEN SOLELY BY INSPECTOR'S WEIGHT AND SHALL BE AT LEAST 50 FEET APART FROM EACH OTHER.
- A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER TURF AREAS.

WINTER EROSION CONTROL PROCEDURES
(FOR ANY EARTH WORK PERFORMED BETWEEN OCTOBER 15TH AND APRIL 15TH)

WINTER EROSION CONTROL NARRATIVE:
OBJECTIVE - ANY SITE WORK PERFORMED LATER THAN OCTOBER 15TH WILL RESULT IN EXPOSED SOIL THROUGH THE WINTER. THIS PRESENTS A POTENTIAL FOR EROSION THROUGH THE WINTER. THE WINTER EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION ZONE DURING THAWS AND RAINSTORMS.

WINTER EROSION CONTROL SEQUENCE:
ON-SITE COORDINATOR - THE ON-SITE COORDINATOR SHALL BE SURE ALL EROSION CONTROL MEASURES REQUIRED FOR WINTER CONSTRUCTION ARE INSTALLED BY OCTOBER 15TH AND PRIOR TO GROUND FREEZING. IF A PERMITTED AREA CAN BE LEFT UNDISTURBED UNTIL THE SPRING THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LIMIT THESE AREAS OF DISTURBANCE.

THE CONTRACTOR SHALL STABILIZE ANY PORTION OF THE SITE THAT IS BEING WORKED AND DISTURBED PRIOR TO BEGINNING CONSTRUCTION AT ANOTHER AREA OF THE SITE. AT NO TIME DURING WINTER CONSTRUCTION SHALL THERE BE MORE THAN 1 ACRE OF EXPOSED SOIL ON SITE.

ANTICIPATED WINTER CONSTRUCTION ACTIVITIES WILL INCLUDE ALL ASPECTS OF THE PROJECT PROPOSED DURING SUMMER CONSTRUCTION. THIS IS A CONTINUATION OF WORK WHICH WAS NOT COMPLETED DURING THE SUMMER. MAJOR GRADING IS EXPECTED TO BE COMPLETE BEFORE OCTOBER 15TH.

LIMITS OF DISTURBANCE - LOD WILL BE MOVED AND/OR REPLACED TO REFLECT THE BOUNDARY OF WINTER WORK. CONTRACTOR WILL MAINTAIN A MINIMUM 25' BUFFER FROM PERIMETER CONTROLS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.

SNOW STORAGE ON-SITE - CONTRACTOR WILL CREATE A SNOW MANAGEMENT PLAN. PLAN WILL IDENTIFY LOCATIONS FOR ADEQUATE SNOW STORAGE AND CONTROL SNOW MELT. SNOW STORAGE WILL BE DOWN GRADIENT OF ALL DISTURBED AREAS AND WILL NOT PROHIBIT THE FUNCTION OF ALL PERMANENT STORMWATER TREATMENT STRUCTURES. CONTRACTOR SHALL KEEP ALL DRAINAGE STRUCTURES OPEN AND FREE OF SNOW AND ICE DAMS.

INSTALL SILT FENCE - SILT FENCE SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE WINTER CONSTRUCTION AREAS AND SOIL STOCKPILE AREAS, AS SHOWN ON THE PLAN, BY OCTOBER 15TH. IF THE GROUND IS UNFROZEN THE SILT FENCE SHALL BE DUG IN AS NORMAL. IF THE GROUND IS FROZEN CONTACT THE ENGINEER FOR ALTERNATE OPTIONS (STONE BERM, FILTREXX SILT SOXX, STRAW WATTLES, ETC.).

STABILIZED CONSTRUCTION ENTRANCE - THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STABILIZED CONSTRUCTION ENTRANCES TO PREVENT SEDIMENT TRACKING OFF-SITE. CONTRACTOR SHALL ENLARGE THE WIDTH OF ACCESS TO PROVIDE ADDITIONAL ROOM FOR SNOW STOCKPILING, IF NEEDED. ADDITIONAL STONE SHALL BE ADDED OR THE LENGTH SHALL BE INCREASED, IF ICE AND SNOW LIMITS CONSTRUCTION ENTRANCES'ABILITY TO HOLD SEDIMENTS ON SITE.

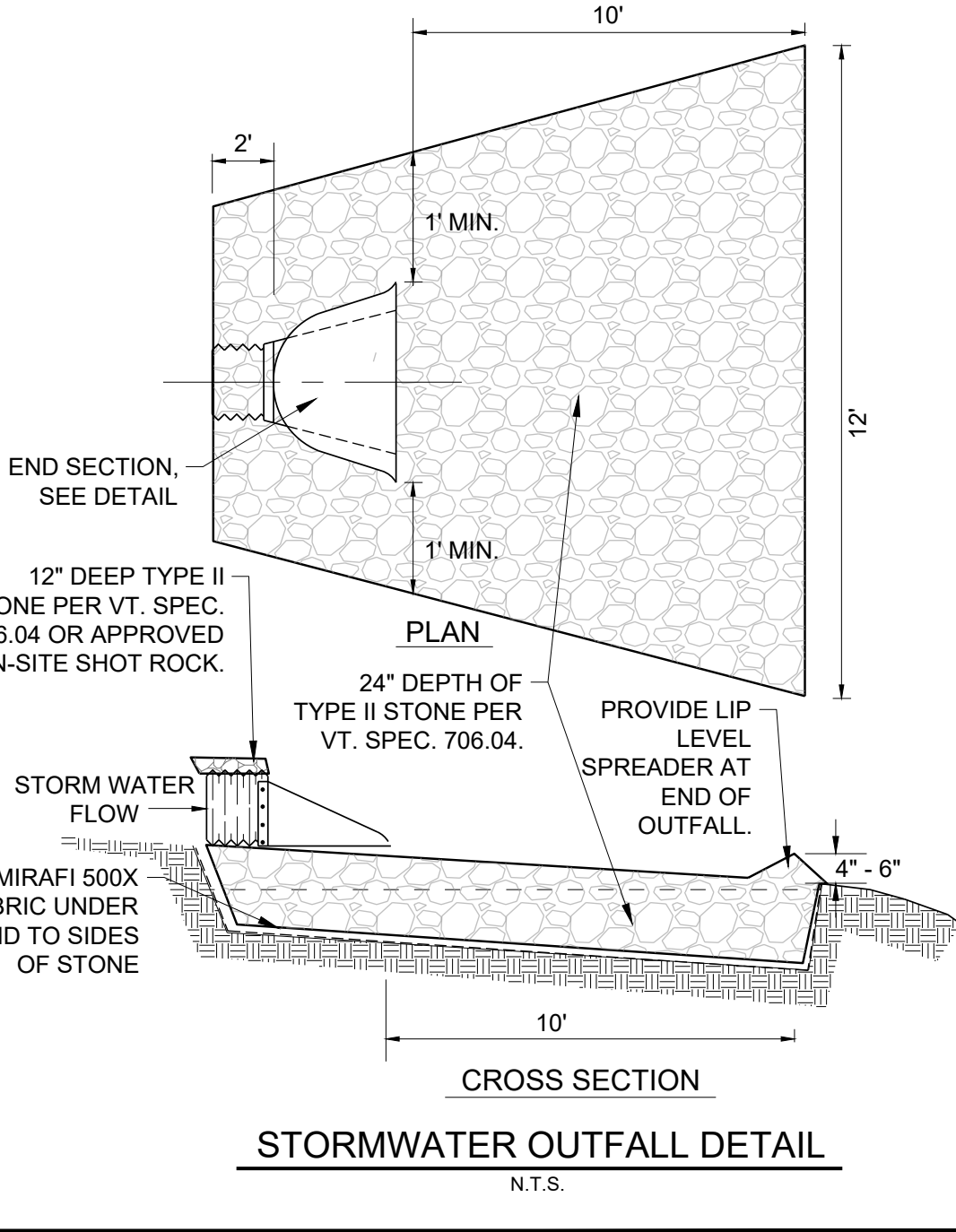
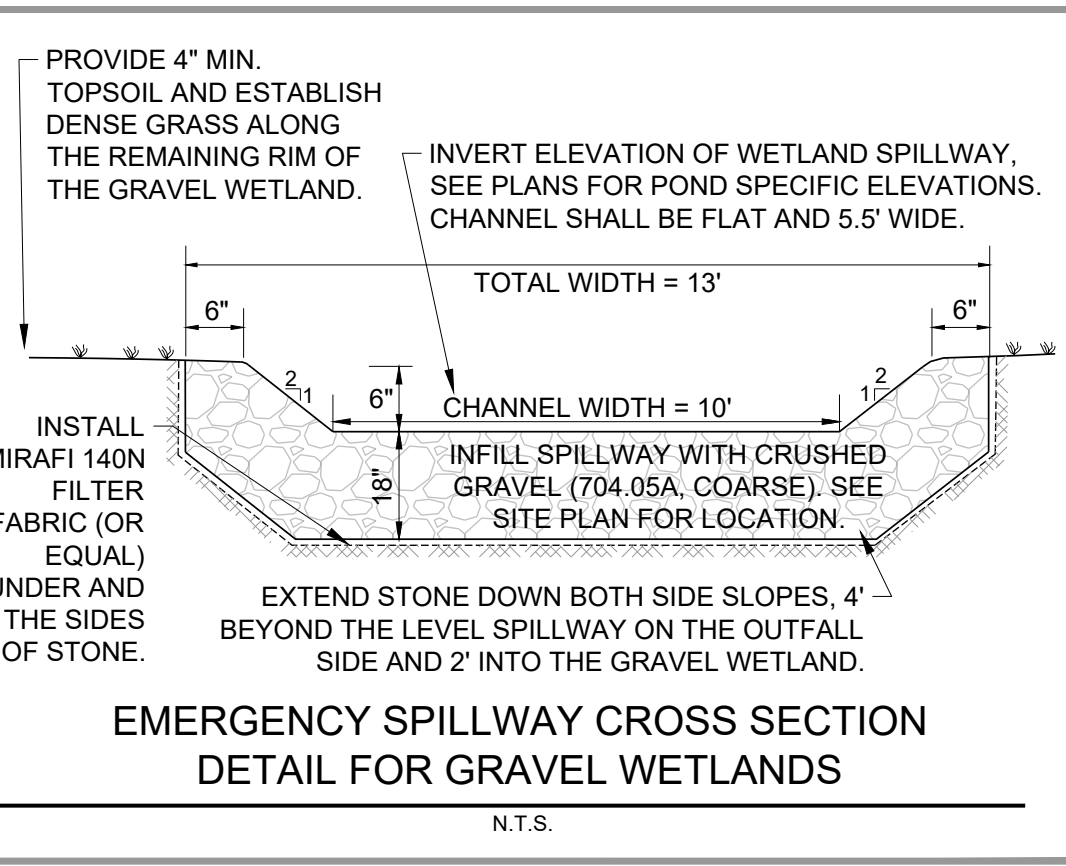
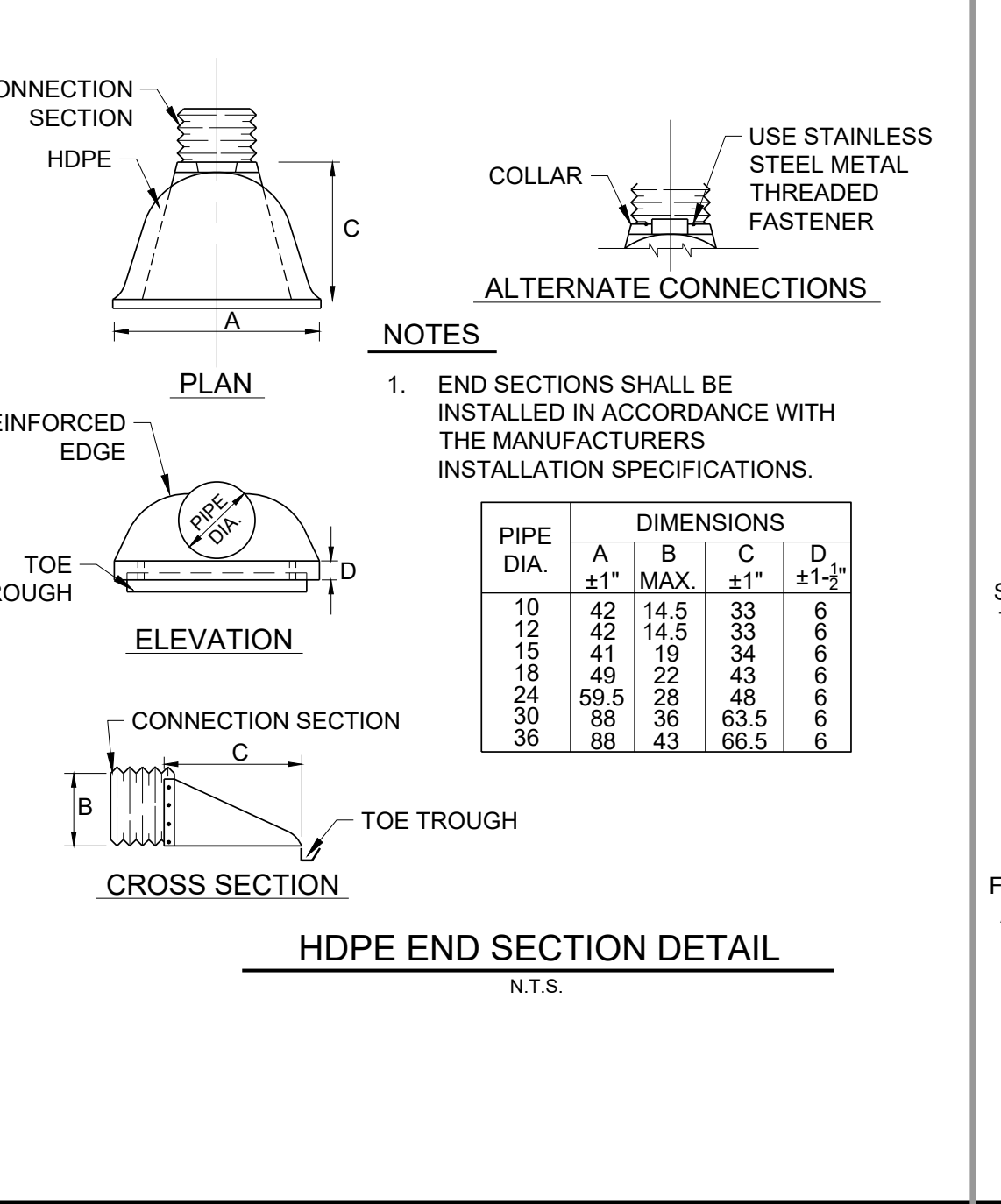
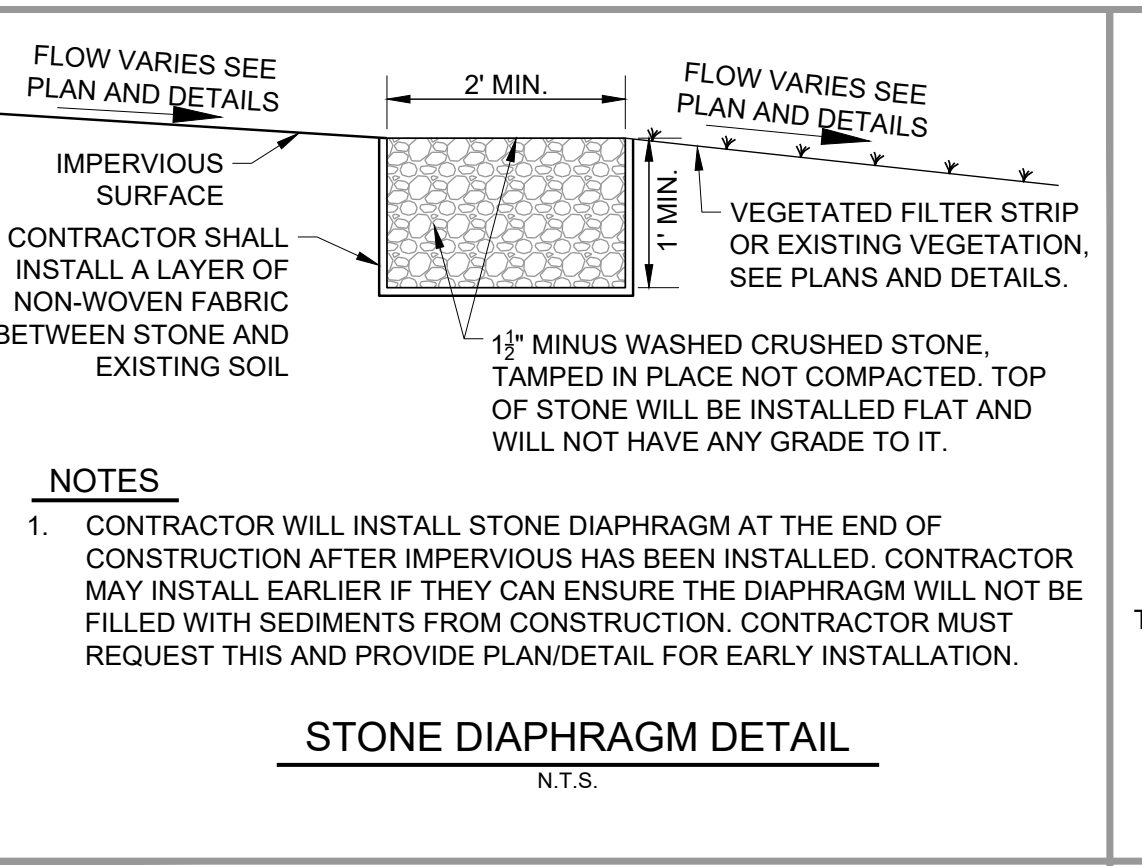
WINTER STABILIZATION - ALL DISTURBED AREAS NOT INVOLVED IN WINTER CONSTRUCTION SHALL BE AT LEAST TEMPORARILY STABILIZED BY OCTOBER 15. AFTER OCTOBER 15TH, ALL AREAS DISTURBED DURING WINTER CONSTRUCTION SHALL BE STABILIZED DAILY TO PREVENT EXPOSURE FROM RAIN EVENTS AND ACCUMULATION OF SNOWFALL (SEE EXCEPTIONS BELOW). CONTRACTOR SHALL ADD ADDITIONAL STONE, AS NECESSARY, TO PROVIDE STABILIZATION THROUGH WINTER CONSTRUCTION ON ALL AREAS WHERE CONSTRUCTION TRAFFIC IS ANTICIPATED.

EXCEPTIONS:

- HYDROSEEDING AFTER OCTOBER 15TH AND BEFORE APRIL 15TH MUST BE STABILIZED WITH STRAW MULCH OR EROSION CONTROL MATTING.*
- SNOW AND/OR ICE MUST BE REMOVED TO, AT MOST, ONE INCH PRIOR TO APPLYING MULCH OR EROSION CONTROL STABILIZATION MATTING.
- IF NO PRECIPITATION, WITHIN 24 HOURS, IS FORECASTED AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
- DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, REQUIRE STABILIZATION AT THE END OF EACH WORK WEEK.

MAINTENANCE - ALL DISTURBED AREAS SHALL BE MONITORED BY THE CONTRACTOR AND THE ON-SITE PLAN COORDINATOR IN ACCORDANCE WITH THE INSPECTION REQUIREMENT OUTLINED IN THE INDIVIDUAL CONSTRUCTION STORMWATER PERMIT. THE CONTRACTOR AND ON-SITE PLAN COORDINATOR SHALL EVALUATE THE SITE AFTER A THAW OR RAINSTORM. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL NOTIFY THE ENGINEER IF ANY EROSION CONTROL MEASURES APPEAR TO BE INADEQUATE. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL IMMEDIATELY (WITHIN THE SAME BUSINESS DAY) IMPLEMENT ANY FURTHER EROSION CONTROL MEASURES SPECIFIED BY THE ENGINEER. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL ADD MULCH, AS NECESSARY, THROUGHOUT THE WINTER AFTER THAWS OR RAINSTORMS. THE MULCH DEPTH SHALL BE BROUGHT UP TO 2". THE MULCH AND SILT FENCE SHALL BE MAINTAINED UNTIL A PERMANENT GROUND COVER (70% STABILIZATION) IS ESTABLISHED IN THE SPRING. THE SITE SHALL BE REMULCHED AND RESEEDDED, IN THE SPRING, AS REQUIRED TO ESTABLISH A VIGOROUS PERMANENT GROUND COVER.

INSPECTION - THE ON-SITE COORDINATOR SHALL BE RESPONSIBLE FOR, AT A MINIMUM, DAILY WRITTEN INSPECTIONS WHILE THE SITE IS DISTURBED OR WEEKLY IF EVERYTHING IS STABILIZED BUT CONSTRUCTION IS ON-GOING. IF, DURING WINTER CONSTRUCTION, EARTH DISTURBANCE ACTIVITIES TEMPORARILY CEASE AND THE SITE HAS BEEN FULLY STABILIZED, INSPECTION AND MONITORING REQUIREMENTS FOR THE ON-SITE COORDINATOR MAY BE REDUCED TO ONCE PER MONTH MINIMUM. ALL INSPECTION SHEETS SHALL BE KEPT ON SITE AND BE AVAILABLE UPON REQUEST.



BAYSIDE PARK COMMUNITY RECREATIONAL CENTER
Blakely Road
Colchester, Vermont

Wiemann Lamphere ARCHITECTS
Wiemann Lamphere Architects
525 Hercules Drive
Colchester, Vermont 05446
www.wiemannlamphere.com

KREBS & LANSING CONSULTING ENGINEERS
164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:
Town of Colchester
P.O. Box 65
Colchester, Vermont 05446

PROPERTY INFORMATION:
Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ± 13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

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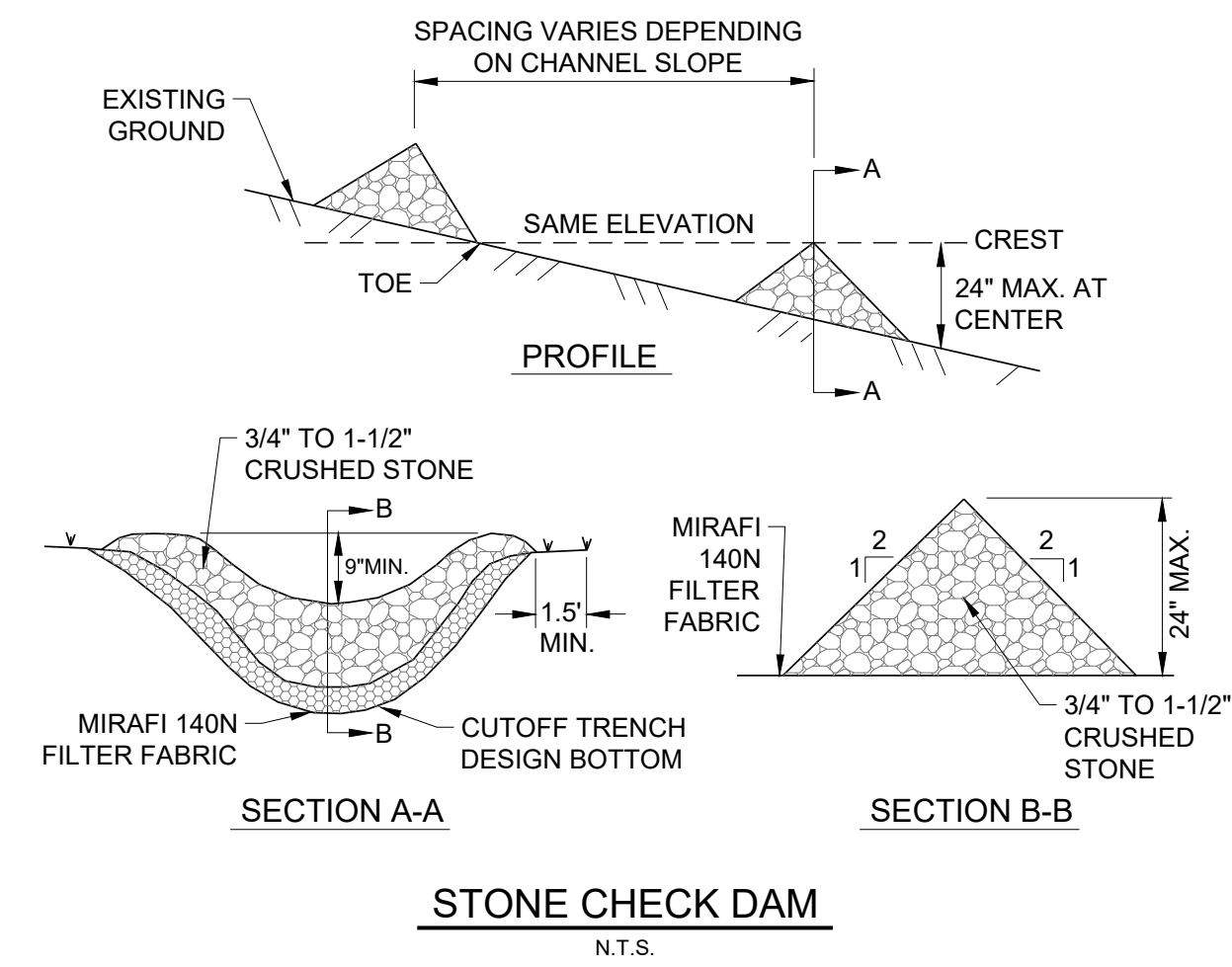
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DRAWN BY: GTD
PROJECT NO.: 21155
DRAWING NO.:
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SCALE: n/a
REV. NO.:

C-2.05

DWG NAME: Colchester-Bayside-Park-Basin.dwg

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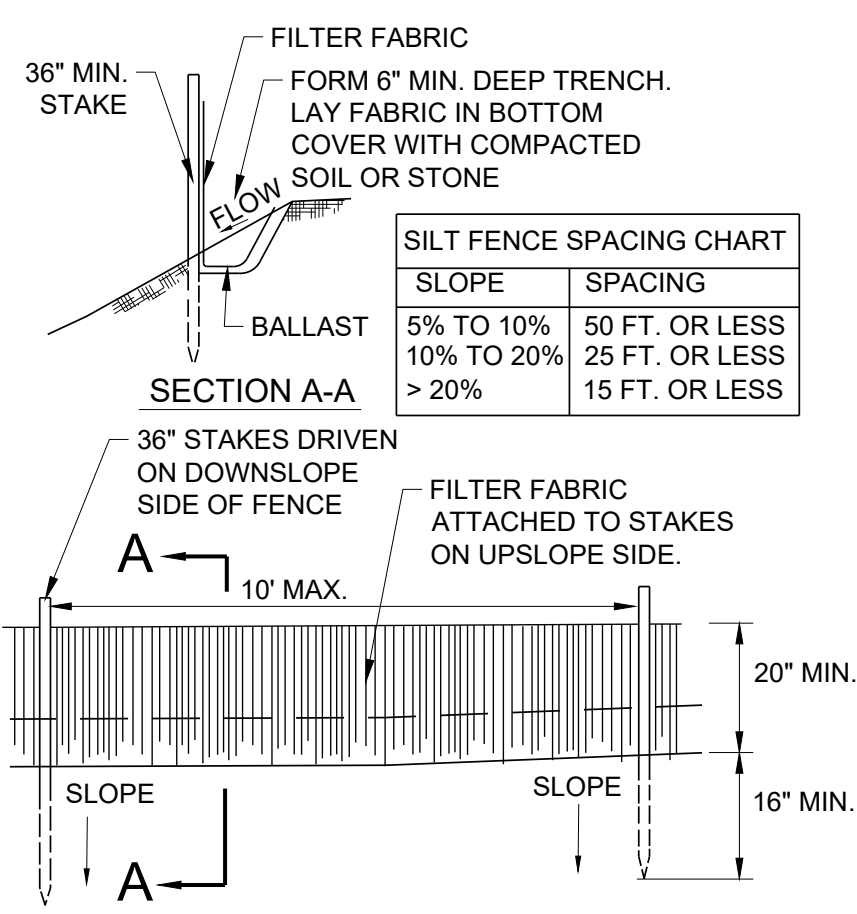
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.



STONE CHECK DAM
N.T.S.

NOTES

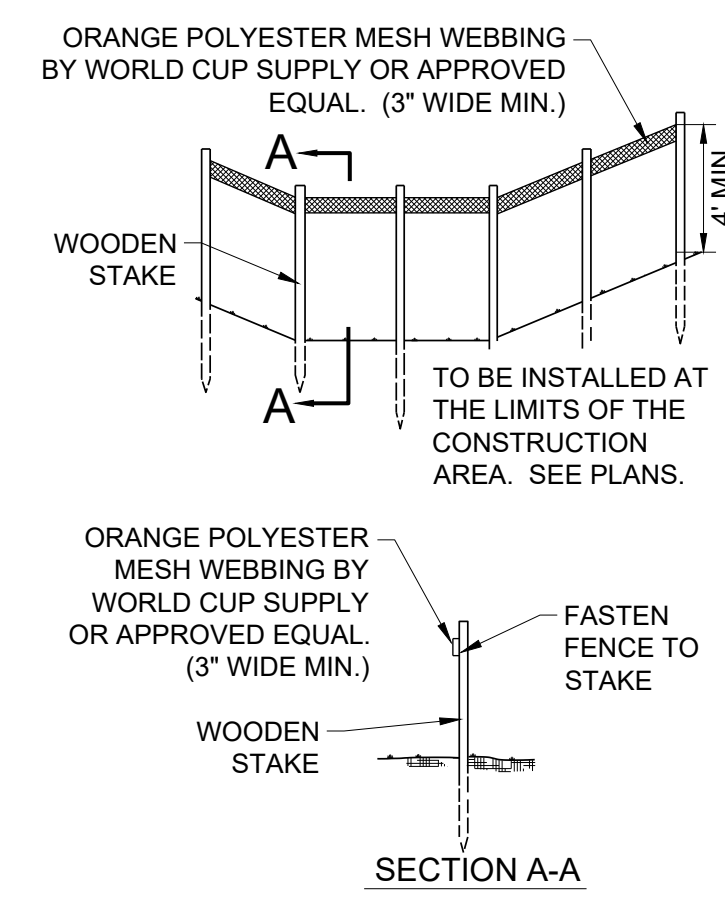
- AT A MINIMUM, EPSC MEASURES MEET VT DEC STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL OR PREVIOUSLY APPROVED INTERCHANGEABLE PRACTICES.
- PERIMETER CONTROLS SHALL BE UTILIZED IN SMALL AREAS ≤ 1 ACRE. IN AREAS > 1 ACRE, TEMPORARY SEDIMENT TRAPS OR TEMPORARY SEDIMENT BASINS ARE TO BE UTILIZED.
- PERIMETER CONTROLS SHALL BE INSTALLED ON DOWNSLOPE SIDE OF PLANNED EARTH DISTURBANCE.
- PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES WITHIN UPSLOPE CONTRIBUTING AREA.
- SILT FENCE SHALL NOT BE USED AS CONSTRUCTION DEMARCATION.
- SILTSOXX CAN BE USED AS A SILT FENCE ALTERNATIVE, WITH PRIOR APPROVAL OF THE ENGINEER. SEE DETAIL.
- IF SILT FENCE IS INSTALLED WHEN GROUND IS FROZEN, A GRAVEL, SHOT ROCK, OR SAND BALLAST MUST BE USED.



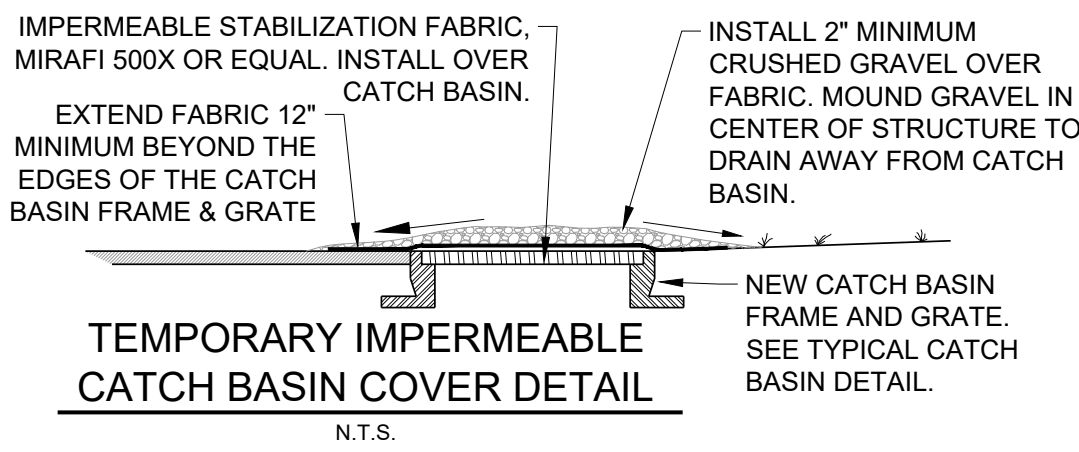
TYPICAL TEMPORARY SILT FENCE
N.T.S.

NOTES

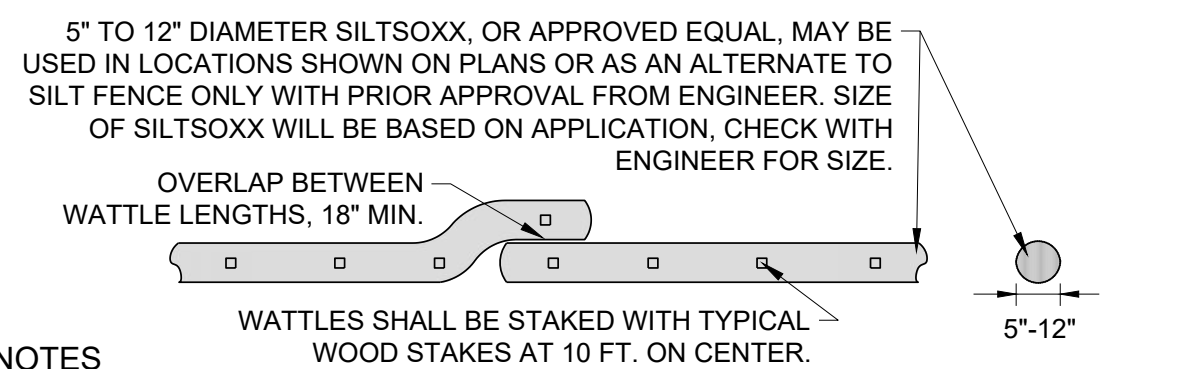
- ACCEPTABLE EPSC MEASURE DETAILS ARE PROVIDED BELOW.
- AT A MINIMUM, EPSC MEASURES MEET VT DEC STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL OR PREVIOUSLY APPROVED INTERCHANGEABLE PRACTICES.
- LIMITS OF DISTURBANCE (OR "CONSTRUCTION DEMARCATION") SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
- BARRIER TAPE/ROPE: FOR USE WHERE PROPOSED DISTURBANCE BORDERS NON-WOODED, VEGETATED AREAS MORE THAN 100 FT FROM THE NEAREST WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC.). BARRIER TAPE IS HIGH VISIBILITY FIBERGLASS TAPE, MINIMUM 3" IN WIDTH COMMONLY USED IN SKI AREAS FOR DEMARCATING CLOSED AREAS. BARRIER TAPE AND ROPE SHOULD BE ATTACHED TO STAKES, AT A MINIMUM HEIGHT OF 4 FT FROM THE GROUND.
- MINIMUM 1 TO 2 ROWS OF MESH BARRIER TAPE TO BE INSTALLED ALONG CONSTRUCTION PERIMETER.
- EACH ROW OF BARRIER TAPE TO BE 3" WIDE MINIMUM.
- BARRIER TAPE TO BE ORANGE.
- SECURE BARRIER TAPE TO STAKES OR EXISTING TREE TRUNKS WITH BOTTOM ROP AT 4' DISTANCE FROM GROUND SURFACE (MINIMUM).
- MAINTAIN AND REPLACE AS NEEDED. REMOVE AT COMPLETION OF PROJECT PER OSPC.
- IN EVENT THE OSPC DETERMINES BARRIER TAPE IS NOT SUFFICIENT, REPLACE WITH ORANGE CONSTRUCTION FENCE OR SNOW FENCE.



TYPICAL CONSTRUCTION LIMIT BARRIER
N.T.S.



TEMPORARY IMPERMEABLE CATCH BASIN COVER DETAIL
N.T.S.

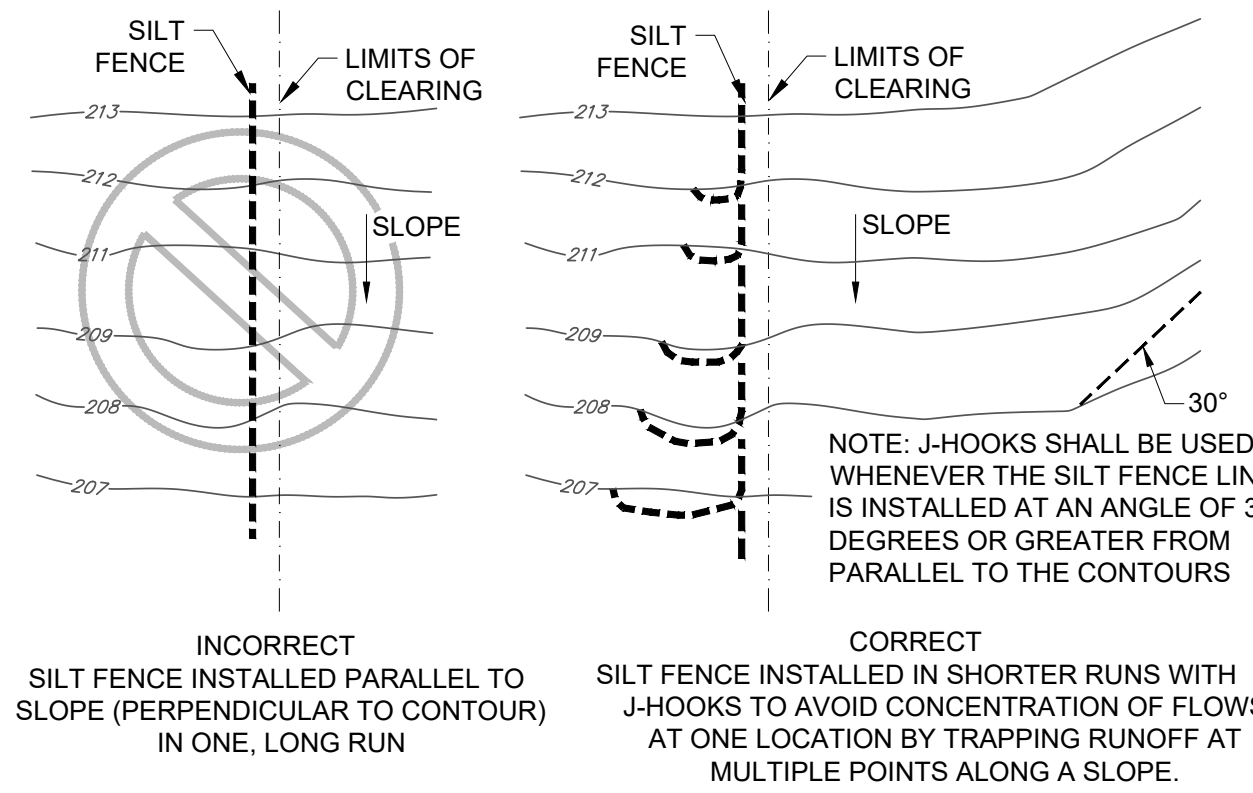


- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF SILTSOXX IN ALL LOCATIONS SHOWN ON THE PLANS. SILTSOXX MAY BE LEFT IN PLACE IF THE CONTRACTOR SEEDS AND MULCHES OVER SILTSOXX FOR GROWTH POST CONSTRUCTION.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ADDITIONAL WATTLES WILL BE ADDED WHEN SEDIMENT REACHES HALF OF PRODUCT HEIGHT.
- WHEN INSTALLING LENGTHS OF SILTSOXX, LENGTHS WILL OVERLAP BY MINIMUM 18" WHEN TRANSITIONING TO A NEW LENGTH OF SILTSOXX.
- CONTRACTOR SHALL REFER TO ALL MANUFACTURES SPECIFICATIONS AND DETAILS.
- SILTSOXX IS A SPECIFIC MANUFACTURER, OTHER MANUFACTURERS WITH EQUAL PRODUCTS MAY BE USED IF APPROVED BY ENGINEER.
- SILTSOXX CAN BE USED AS A SILT FENCE ALTERNATIVE, WITH PRIOR APPROVAL OF THE ENGINEER.

TYPICAL SILTSOXX SEDIMENT CONTROL
N.T.S.

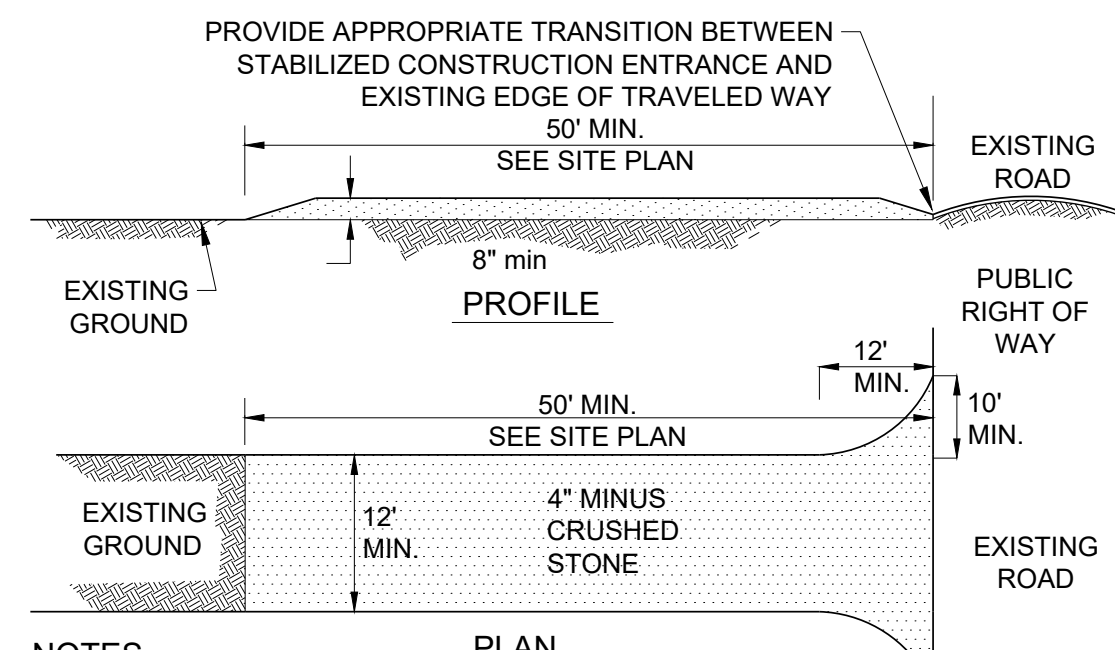
NOTES

- PROPER INSTALLATION OF J-HOOKS PROVIDES SILT FENCE THE ABILITY TO TEMPORARILY POND RUNOFF, ALLOWING TIME FOR SEDIMENTS TO SETTLE.
- LONG RUNS OF SILT FENCE BETWEEN J-HOOKS SHOULD BE AVOIDED REFER TO ADJACENT TABLE FOR PROPER SPACING OF J-HOOKS.
- J-HOOKS SHOULD BE BUILT ALONG CONTOUR IN A "SMILE" SHAPE WITH A MINIMUM WIDTH OF 20 FEET AND MINIMUM DEPTH OF 10 FEET.
- ALONG A NARROW RIGHT OF WAY, NARROWER J-HOOKS CAN BE USED WITH A HIGHER SPACING FREQUENCY.



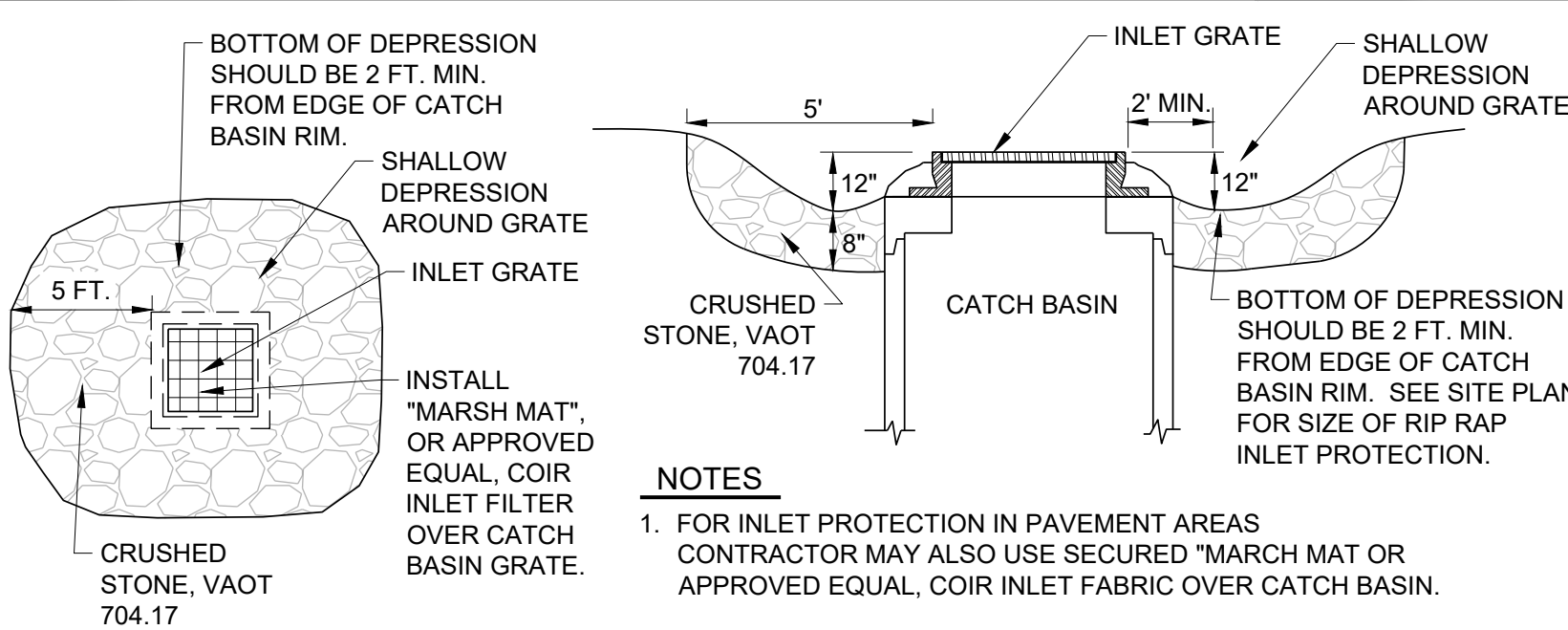
SLOPE STEEPNESS	MAXIMUM SPACING BETWEEN SILT FENCE J-HOOKS (FT.)
2:1 SLOPE (50%)	25
3:1 SLOPE (33%)	50
4:1 SLOPE (25%)	75
5:1 SLOPE OR FLATTER (50%)	100

TYPICAL SILT FENCE "J-HOOK" CONSTRUCTION
N.T.S.

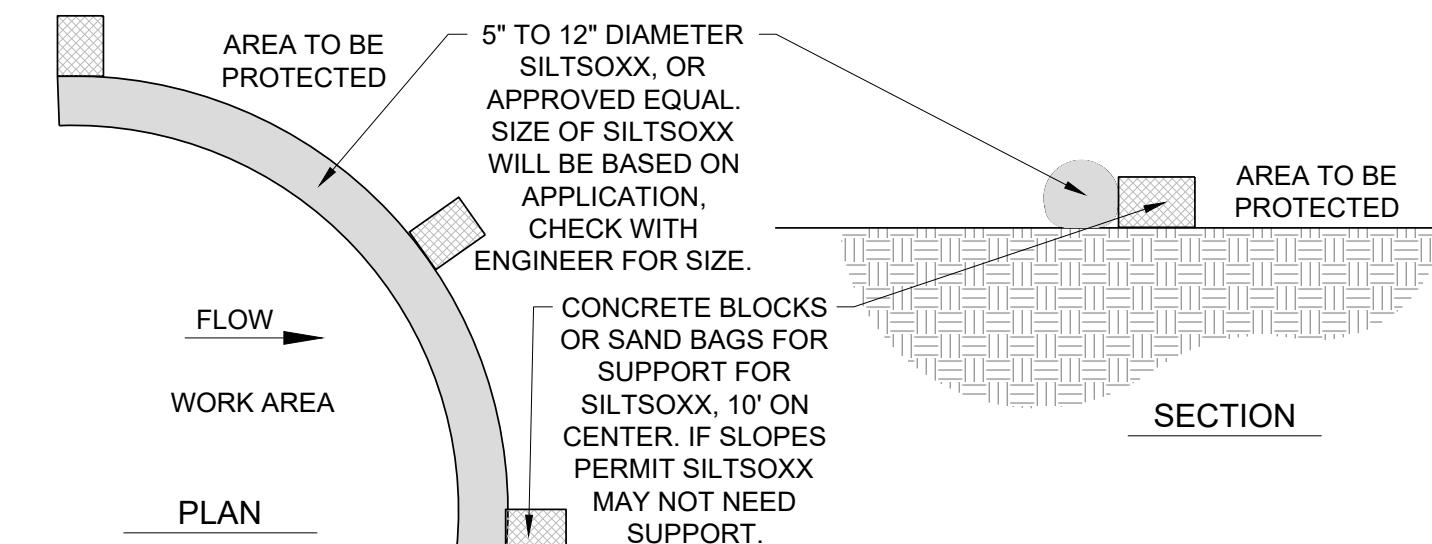


- CONTRACTOR SHALL STABILIZE CONSTRUCTION ENTRANCE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OFF-SITE.
- CONTRACTOR TO USE MIRAFI 500X UNDER STONE FOR TEMPORARY CONSTRUCTION ROADS.
- CRUSHED STONE SHALL BE ADDED OR REPLACED WHEN 80% OF THE VOIDS ARE FILLED WITH SEDIMENT.
- STONE SIZE SHALL BE 1-4".
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES IS ALLOWED.

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

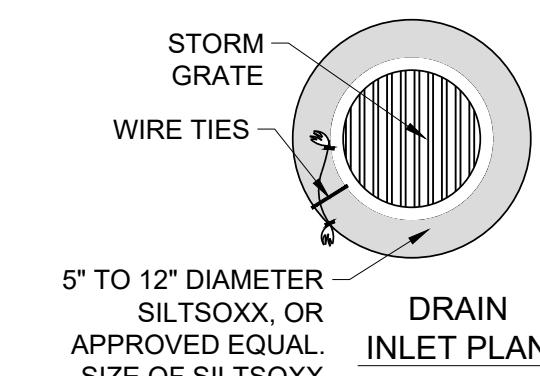


STONE LINED SUMP INLET PROTECTION
N.T.S.

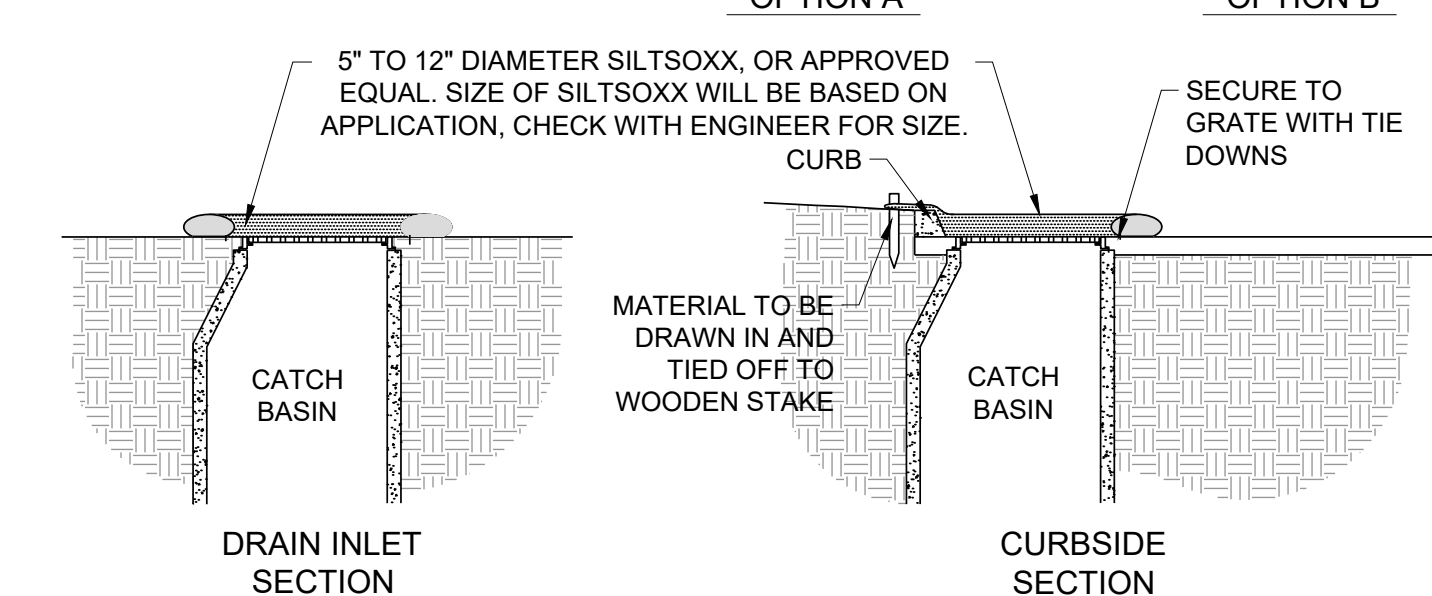


- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF SILTSOXX IN ALL LOCATIONS SHOWN ON THE PLANS.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ADDITIONAL SILTSOXX WILL BE ADDED WHEN SEDIMENT REACHES HALF OF PRODUCT HEIGHT.
- WHEN INSTALLING LENGTHS OF SILTSOXX, LENGTHS WILL OVERLAP BY MINIMUM 2' WHEN TRANSITIONING TO A NEW LENGTH OF WATTLE.
- CONTRACTOR SHALL REFER TO ALL MANUFACTURES SPECIFICATIONS AND DETAILS.
- SILTSOXX IS A SPECIFIC MANUFACTURER, OTHER MANUFACTURERS WITH EQUAL PRODUCTS MAY BE USED IF APPROVED BY ENGINEER.

TYPICAL SILTSOXX INSTALLATION ON PAVEMENT
N.T.S.



DRAIN INLET PROTECTION
N.T.S.



- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF SILTSOXX IN ALL LOCATIONS SHOWN ON THE PLANS.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ADDITIONAL SILTSOXX WILL BE ADDED WHEN SEDIMENT REACHES HALF OF PRODUCT HEIGHT.
- WHEN INSTALLING LENGTHS OF SILTSOXX, LENGTHS WILL OVERLAP BY MINIMUM 2' WHEN TRANSITIONING TO A NEW LENGTH OF WATTLE.
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- SILTSOXX IS A SPECIFIC MANUFACTURER, OTHER MANUFACTURERS WITH EQUAL PRODUCTS MAY BE USED IF APPROVED BY ENGINEER.

SILTSOXX INLET PROTECTION
N.T.S.

GUIDE TO MULCH MATERIALS, RATES, AND USES

	QUALITY STANDARDS	PER 1000 SQ. FT.	PER ACRE	DEPTH OF APPLICATION	REMARKS
WOOD CHIPS OR SHAVINGS	AIR-DRIED, FREE OF OBJECTIONABLE COARSE MATERIAL	500-900 LBS	10-20 TONS	2 - 7"	USED PRIMARILY AROUND SHRUB AND TREE PLANTINGS AND RECREATION TRAILS TO INHIBIT WEED COMPETITION. RESISTANT TO WIND BLOWING. DECOMPOSES SLOWLY.
WOOD FIBER CELLULOSE (PARTLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS.	-	APPLY WITH HYDROMULCHER. NO TIE DOWN REQUIRED. LESS EROSION CONTROL PROVIDED THAN 2 TONS OF HAY OR STRAW.
GRAVEL, CRUSHED STONE OR SLAG	WASHED, SIZE 2B OR 3A - 1/2"	9 CU. YDS.	405 CU. YDS.	3"	EXCELLENT MULCH FOR SHORT SLOPES AND AROUND PLANTS AND ORNAMENTALS. USE 2B WHERE SUBJECT TO TRAFFIC. (APPROXIMATELY 2,000 LBS./CU. YD.). FREQUENTLY USED OVER FILTER FABRIC FOR BETTER WEED CONTROL.
HAY OR STRAW	AIR-DRIED, FREE OF UNDESIRABLE SEEDS & COARSE MATERIALS	90-100 LBS 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE	USE SMALL GRAIN STRAW WHERE MULCH IS MAINTAINED FOR MORE THAN THREE MONTHS. SUBJECT TO WIND BLOWING UNLESS ANCHORED. MOST COMMONLY USED MULCHING MATERIAL. PROVIDES THE BEST MICRO-ENVIRONMENTAL FOR GERMINATING SEEDS.
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3-9 CU. YDS.	134-402 CU. YDS.	1 - 3"	COARSER TEXTURED MULCHES MAY BE MORE EFFECTIVE IN REDUCING WEED GROWTH AND WIND EROSION.
EROSION CONTROL MIX	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100%, DRY WEIGHT. PARTICLE SIZE SHALL PASS # 6 SCREEN (100%)				* SLOPES 3(HZ.) 1(VERT.) OR FLATTER = 2 INCH DEPTH PLUS ADDITIONAL 1/2 INCH DEPTH PER 20 FT. OF SLOPE UP TO 100 FT. ** SLOPES BETWEEN 3(HZ.) 1(VERT.) AND 2(HZ.) 1(VERT.) = 4 INCH DEPTH PLUS ADDITIONAL 1/2 INCH PER 20 FT. OF SLOPE UP TO 100 FT. *** SLOPES STEEPER THAN 2(HZ.) 1(VERT.) USE OF EROSION CONTROL MIX AND MULCH DEPTH TO BE REVIEWED AND APPROVED PRIOR TO USE BY OSPC OR EPSC SPECIALIST COMPRISED OF SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. MAY CONTAIN ROCK < 4" IN DIAMETER. ORGANICS SHALL BE FIBROUS AND ELONGATED. NO LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS.

PERMANENT SEED MIX SHALL BE USED AS EARLY AS PRACTICABLE BETWEEN 5/15 AND 9/15 AND SHALL MEET THE FOLLOWING CRITERIA:

SEED	% WEIGHT
RED FESCUE	50%
SHEEP FESCUE	25%
RED TOP	5%
WHITE CLOVER	10%
ANNUAL RYE	10%

TEMPORARY SEED MIX SHALL BE USED BETWEEN 9/16 AND 5/14 AND SHALL MEET THE FOLLOWING CRITERIA:

SEED	% WEIGHT	% GERMINATION
WINTER RYE	80% MIN.	85% MIN.
RED FESCUE (CREEPING)	4% MIN.	80% MIN.
PERENNIAL RYE GRASS	3% MIN.	90% MIN.
RED CLOVER	3% MIN.	90% MIN.
OTHER CROP GRASS	0.5% MAX.	
NOXIOUS WEED SEED	0.5% MAX.	
INERT MATTER	1% MAX.	

SEEDING SPECIFICATIONS

BAYSIDE PARK COMMUNITY RECREATIONAL CENTER

Blakely Road
Colchester, Vermont



Wiemann Lamphere Architects
525 Hercules Drive
Colchester, Vermont 05446
www.wiemannlamphere.com



164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION

OWNER AND APPLICANT:

Town of Colchester
P.O. Box 85
Colchester, Vermont 05446

PROPERTY INFORMATION:

Address: Blakely Road and East Lakeshore Drive
Parcel ID: 66-021013-000000
SPAN: 153-048-16909
Acreage: ± 13.3 Acres
Zoning: Residential 2 (R2)
Front Yard Building Setback: 30'
Back Yard Building Setback: 25'
Side Yard Building Setback: 15'
Maximum Total Lot Coverage: 30%

STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

DETAILS

DATE ISSUED: 12/23/22

DRAWN BY: GTD CHECKED BY: GTD

PROJECT NO.: 21155

SCALE: 1" = 60'

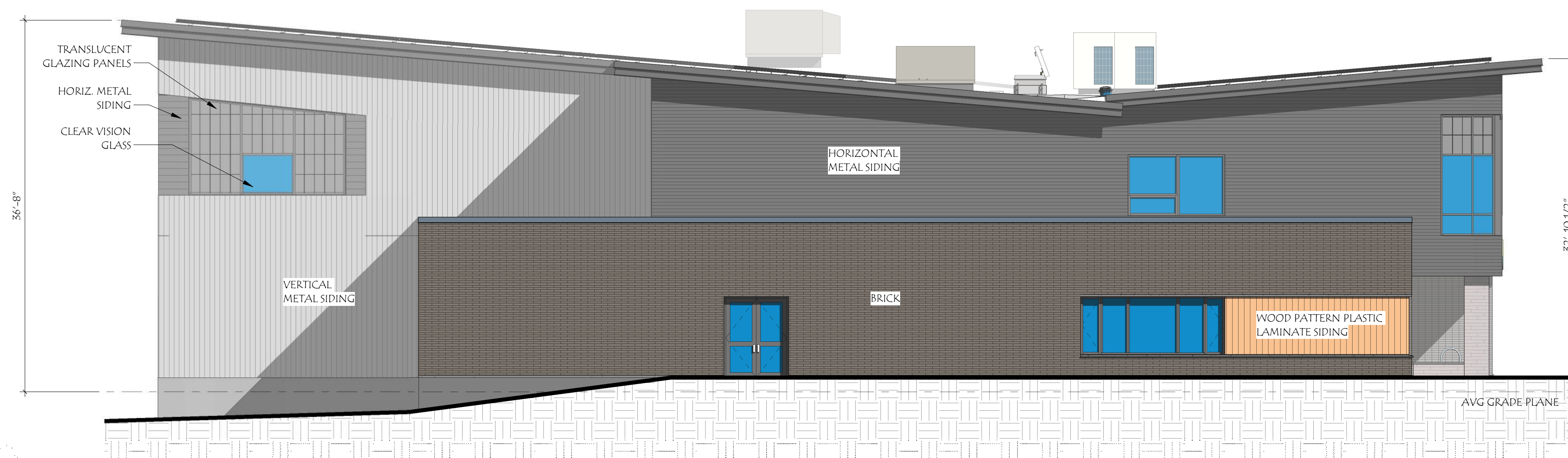
DRAWING NO.:

REV. NO.:

C-2.06



1 SOUTH ELEVATION
SR2 1/8" = 1'-0"

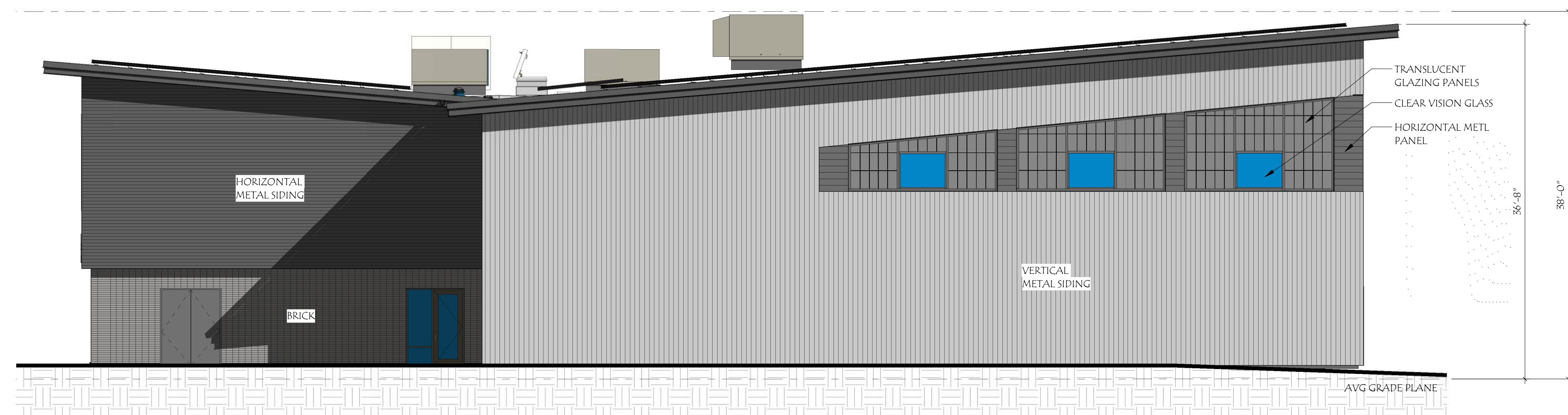


2 WEST ELEVATION
SR2 1/8" = 1'-0"

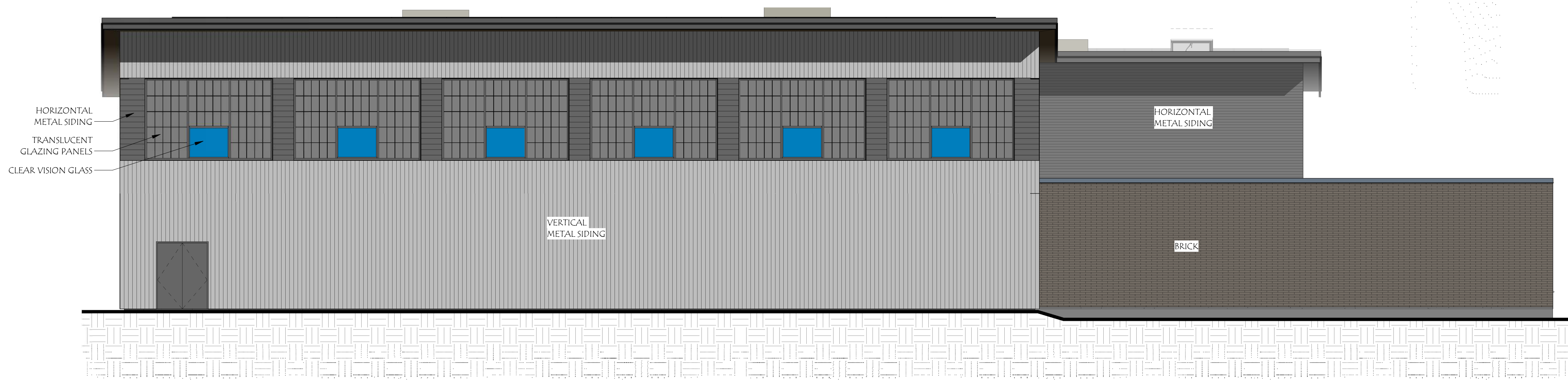
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Colchester, VT



1 EAST ELEVATION
SR1 1/8" = 1'-0"



2 NORTH ELEVATION
SR1 1/8" = 1'-0"

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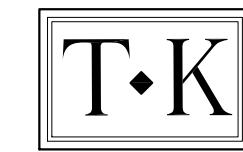
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BAYSIDE PARK - COMMUNITY RECREATION CENTER

Colchester, VT



TK Landscape Architects
LANDSCAPE ARCHITECTURE + SITE PLANNING

35 CHERRY STREET UNIT#404
BURLINGTON, VERMONT 05401
VOICE: 802-309-9394
E-MAIL: terry@tkland.com
VERMONT RLA 125.0072575
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NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT DIG-SAFE • 1-888-DIG-SAFE AND THE PROJECT OWNER TO VERIFY THE "AS-BUILT" LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS BETWEEN THE PROPOSED CONSTRUCTION AND EXISTING CONDITIONS. THE LANDSCAPE ARCHITECT SHALL REVIEW PROPOSED MODIFICATIONS TO THIS PLAN AND MAKE RECOMMENDATIONS AS NEEDED TO AVOID CONFLICTS BETWEEN THE PROPOSED CONSTRUCTION AND EXISTING SITE CONDITIONS.

2. OWNER: TOWN OF COLCHESTER
P.O. BOX 65
P.P. COLCHESTER, VERMONT 05446

3. PROJECT ARCHITECT:
WIEMANN LAMPHERE ARCHITECTS
525 HERCULES DRIVE
COLCHESTER, VERMONT 05446
www.wiemannlamphere.com

4. PROJECT ENGINEER:
KREBS + LANSING CONSULTING ENGINEERS
164 MAIN STREET, SUITE 201
www.krebsandlansing.com

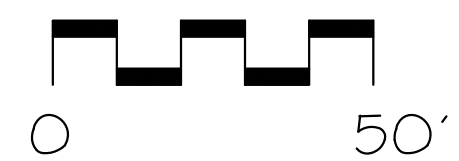
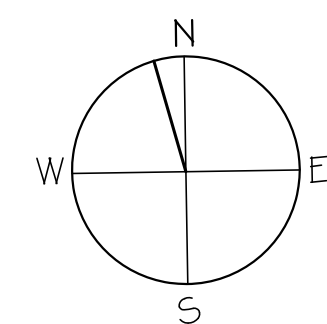
5. SURVEY + SITE PLAN INFORMATION FROM
KREBS + LANSING CONSULTING ENGINEERS

DATE OF LAST REVISION:

△ REVISE SITE PLAN, PLANTINGS, + BUILDING 2-3-2023

△ DELETE 31 ARBORVITAE / ADD 9 SERBIAN SPRUCE 2-6-2023

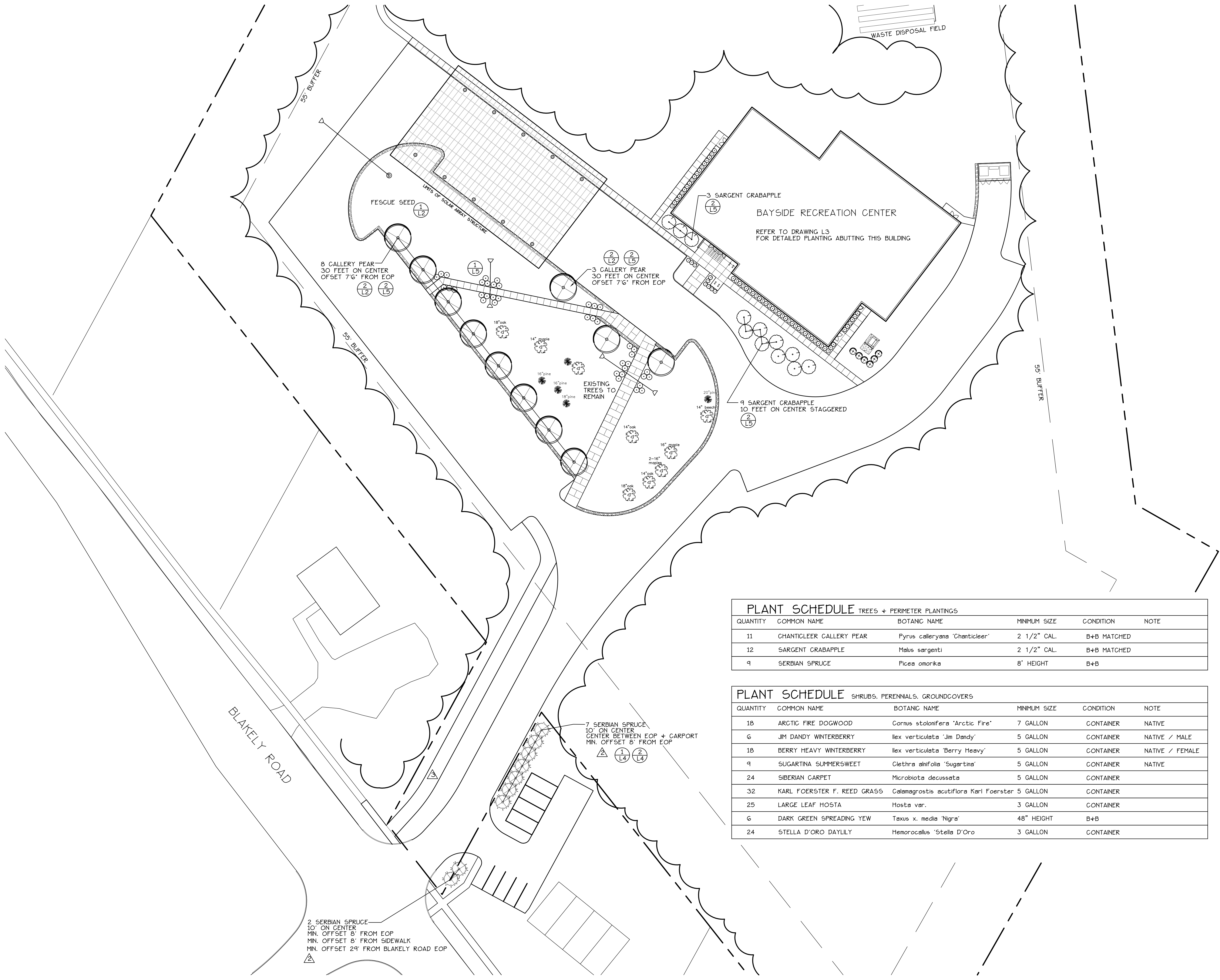
△ REVISE SITE PLAN WALKWAY 2-7-2023



MASTER LANDSCAPE PLAN

BAYSIDE RECREATION CENTER
BLAKELY ROAD
COLCHESTER, VERMONT

TK PROJECT 2102
2-3-2023
SCALE AS SHOWN



PLANT SCHEDULE TREES + PERIMETER PLANTINGS					
QUANTITY	COMMON NAME	BOTANIC NAME	MINIMUM SIZE	CONDITION	NOTE
11	CHANTICLEER CALLERY PEAR	<i>Pyrus calleryana</i> 'Chanticleer'	2 1/2" CAL.	B+B	MATCHED
12	SARGENT CRABAPPLE	<i>Malus sargentii</i>	2 1/2" CAL.	B+B	MATCHED
9	SERBIAN SPRUCE	<i>Picea omorika</i>	8' HEIGHT	B+B	

PLANT SCHEDULE SHRUBS, PERENNIALS, GROUNDCOVERS					
QUANTITY	COMMON NAME	BOTANIC NAME	MINIMUM SIZE	CONDITION	NOTE
18	ARCTIC FIRE DOGWOOD	<i>Cornus stolonifera</i> 'Arctic Fire'	7 GALLON	CONTAINER	NATIVE
6	JIM DANDY WINTERBERRY	<i>Ilex verticillata</i> 'Jim Dandy'	5 GALLON	CONTAINER	NATIVE / MALE
18	BERRY HEAVY WINTERBERRY	<i>Ilex verticillata</i> 'Berry Heavy'	5 GALLON	CONTAINER	NATIVE / FEMALE
9	SUGARTINA SUMMERSWEET	<i>Clethra alnifolia</i> 'Sugartina'	5 GALLON	CONTAINER	NATIVE
24	SIBERIAN CARPET	<i>Microbiota decussata</i>	5 GALLON	CONTAINER	
32	KARL FOERSTER F. REED GRASS	<i>Calamagrostis acutiflora</i> Karl Foerster	5 GALLON	CONTAINER	
25	LARGE LEAF HOSTA	<i>Hosta</i> var.	3 GALLON	CONTAINER	
6	DARK GREEN SPREADING YEW	<i>Taxus x. media</i> 'Nigra'	48" HEIGHT	B+B	
24	STELLA D'ORO DAYLILY	<i>Hemerocallis</i> 'Stella D'Oro'	3 GALLON	CONTAINER	

2 SERBIAN SPRUCE
10' ON CENTER
MIN. OFFSET 8' FROM EOP
MIN. OFFSET 8' FROM SIDEWALK
MIN. OFFSET 24' FROM BLAKELY ROAD EOP
△

7 SERBIAN SPRUCE
10' ON CENTER
CENTER BETWEEN EOP + CARPORT
MIN. OFFSET 8' FROM EOP
△ 1 L4 2 L4

3 SARGENT CRABAPPLE
30 FEET ON CENTER
REFER TO DRAWING L3
FOR DETAILED PLANTING ABUTTING THIS BUILDING

9 SARGENT CRABAPPLE
10 FEET ON CENTER STAGGERED
2 L5

3 CALLERY PEAR
30 FEET ON CENTER
OFFSET 7'6" FROM EOP
2 L2 2 L5

8 CALLERY PEAR
30 FEET ON CENTER
OFFSET 7'6" FROM EOP
2 L2 2 L5

EXISTING TREES TO REMAIN
18" oak
14" oak
16" pine
15" pine
14" oak
16" maple
2-16" maple
14" oak
18" oak
14" beech
20" pine

FESCUE SEED
1 L2

1 L5

55' BUFFER

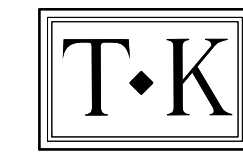
55' BUFFER

55' BUFFER

BLAKELY ROAD

WASTE DISPOSAL FIELD

LOTS OF SOLAR ARRAY STRUCTURE



TK Landscape Architects
LANDSCAPE ARCHITECTURE + SITE PLANNING

35 CHERRY STREET UNIT#404
BURLINGTON, VERMONT 05401
VOICE: 802-309-9394
E-MAIL: terry@tkland.com
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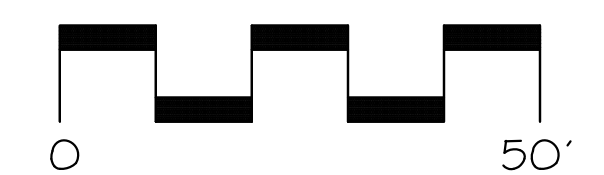
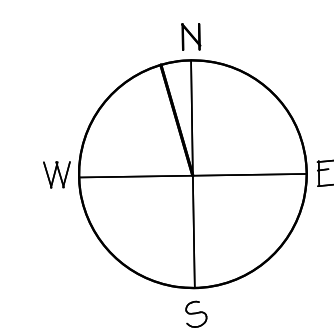
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5. SURVEY + SITE PLAN INFORMATION FROM
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DATE OF LAST REVISION:

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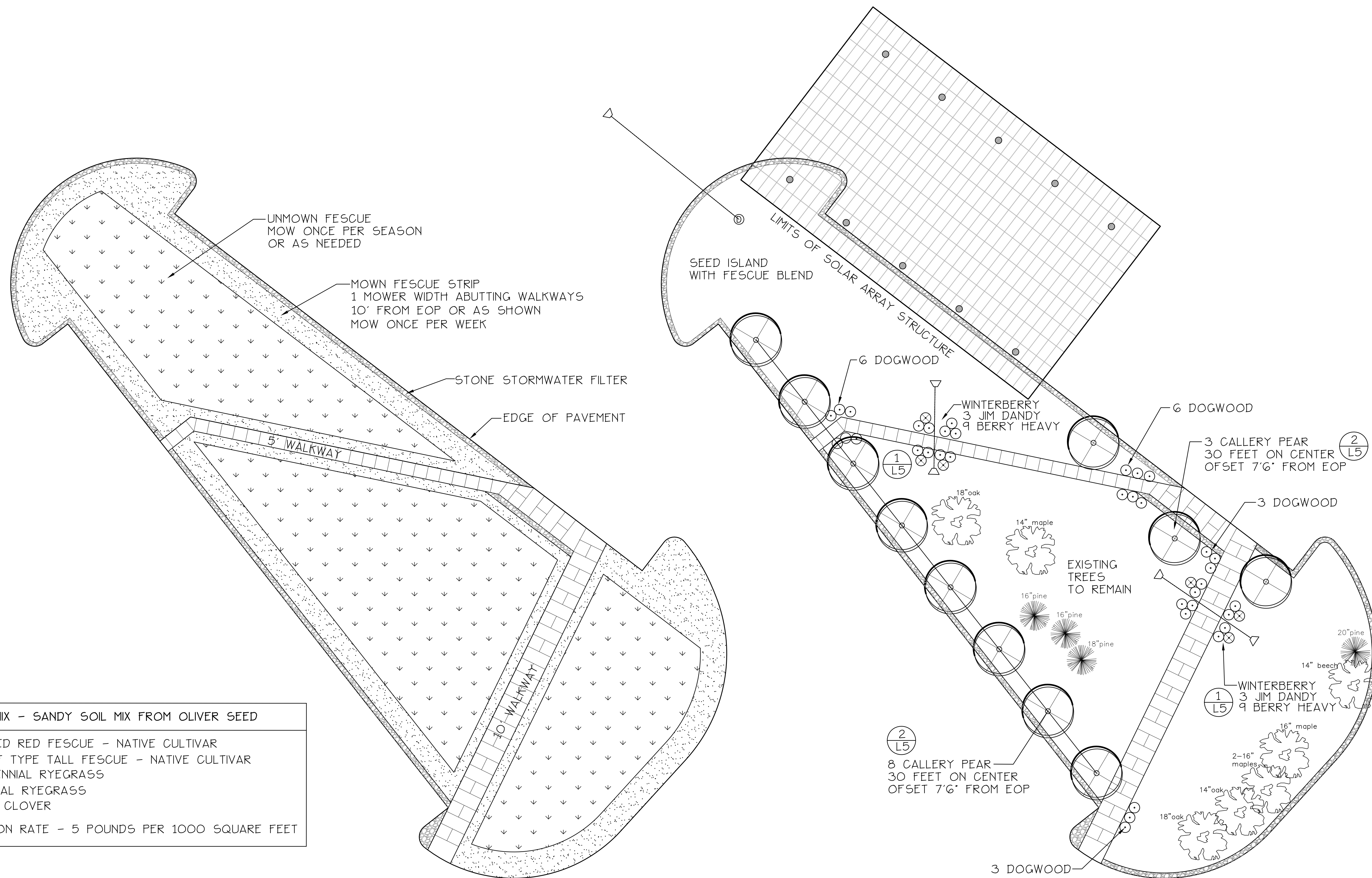


PARKING ISLAND LANDSCAPE PLAN

BAYSIDE RECREATION CENTER
BLAKELY ROAD
COLCHESTER, VERMONT

TK PROJECT 2102
2-3-2023
SCALE AS SHOWN

L-2



① PARKING LOT ISLAND SEEDING

② PARKING LOT ISLAND PLANTING

FESCUE MIX - SANDY SOIL MIX FROM OLIVER SEED

35% NAMED RED FESCUE - NATIVE CULTIVAR
30% TURF TYPE TALL FESCUE - NATIVE CULTIVAR
20% PERENNIAL RYEGRASS
10% ANNUAL RYEGRASS
5% WHITE CLOVER
APPLICATION RATE - 5 POUNDS PER 1000 SQUARE FEET

UNMOWN FESCUE
MOW ONCE PER SEASON
OR AS NEEDED

MOWN FESCUE STRIP
1 MOWER WIDTH ABUTTING WALKWAYS
10' FROM EOP OR AS SHOWN
MOW ONCE PER WEEK

STONE STORMWATER FILTER

EDGE OF PAVEMENT

5' WALKWAY

10' WALKWAY

SEED ISLAND
WITH FESCUE BLEND

LIMITS OF SOLAR ARRAY STRUCTURE

6 DOGWOOD

WINTERBERRY
3 JIM DANDY
9 BERRY HEAVY

6 DOGWOOD

3 CALLERY PEAR
30 FEET ON CENTER
OFFSET 7'6" FROM EOP

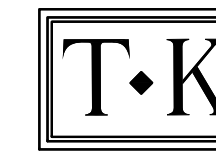
3 DOGWOOD

EXISTING
TREES
TO REMAIN

WINTERBERRY
3 JIM DANDY
9 BERRY HEAVY

8 CALLERY PEAR
30 FEET ON CENTER
OFFSET 7'6" FROM EOP

3 DOGWOOD



TK Landscape Architects
LANDSCAPE ARCHITECTURE + SITE PLANNING

35 CHERRY STREET UNIT#404
BURLINGTON, VERMONT 05401
VOICE: 802-309-9394
E-MAIL: terry@tkland.com
VERMONT RLA 125.0072575
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NOTES:

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2. OWNER: TOWN OF COLCHESTER
P.O. BOX 65
P.P. COLCHESTER, VERMONT 05446

3. PROJECT ARCHITECT:
WIEMANN LAMPHERE ARCHITECTS
525 HERCULES DRIVE
COLCHESTER, VERMONT 05446
www.wiemannlamphere.com

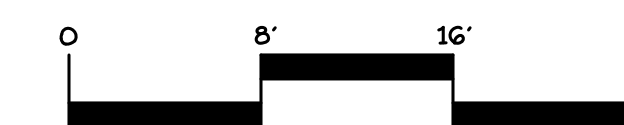
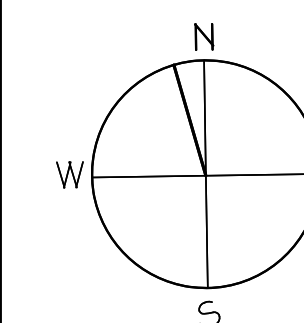
4. PROJECT ENGINEER:
KREBS + LANSING CONSULTING ENGINEERS
164 MAIN STREET, SUITE 201
www.krebsandlansing.com

5. SURVEY + SITE PLAN INFORMATION FROM
KREBS + LANSING CONSULTING ENGINEERS

DATE OF LAST REVISION:

▲ REVISE SITE PLAN, PLANTINGS, + BUILDING 2-3-2023

▲ REVISE WALK OFF GRID 2-7-2023

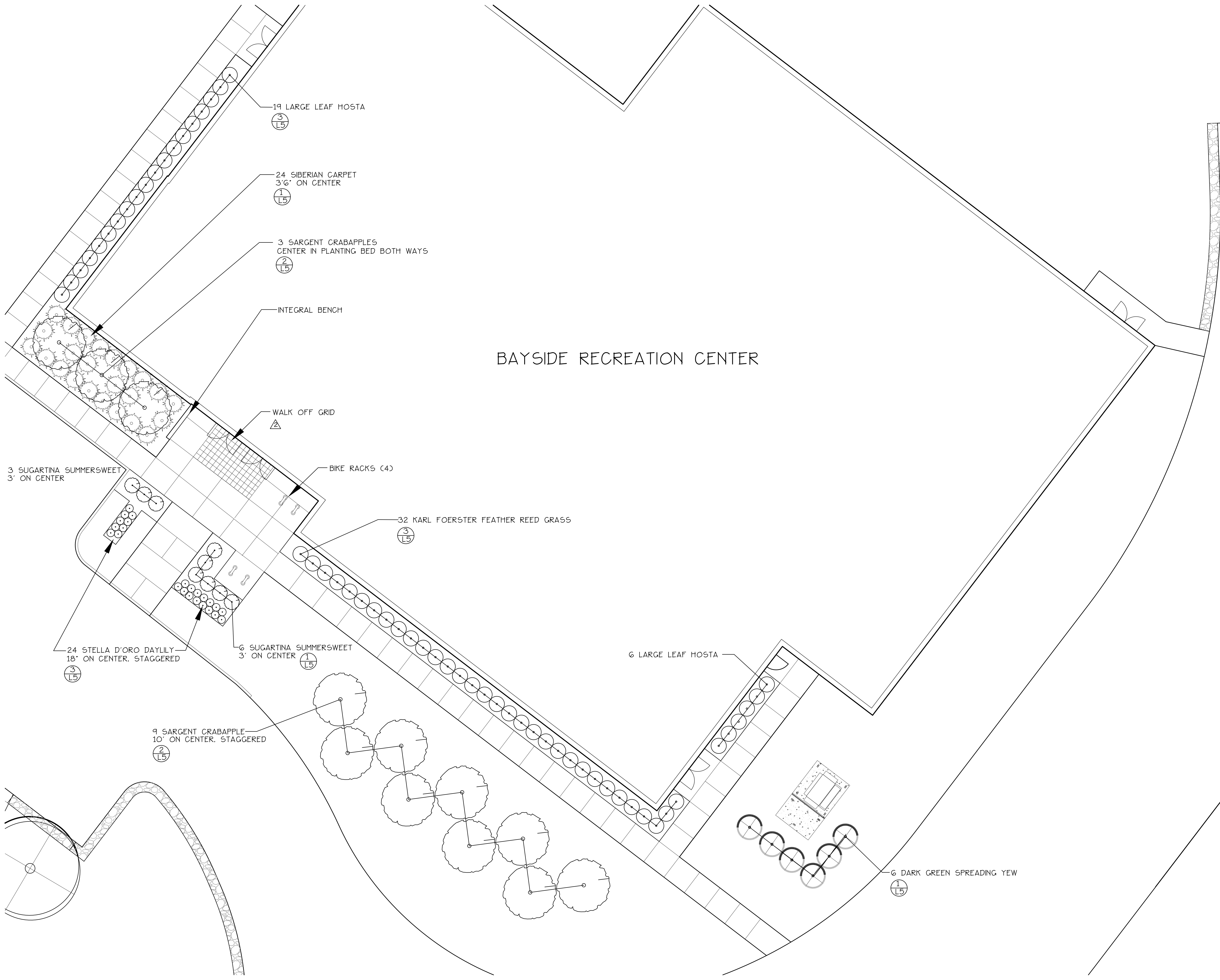


PUBLIC ENTRANCE
LANDSCAPE PLAN

BAYSIDE RECREATION CENTER
BLAKELY ROAD
COLCHESTER, VERMONT

TK PROJECT 2102
2-3-2023
SCALE AS SHOWN

L-3



BAYSIDE RECREATION CENTER

6 LARGE LEAF HOSTA

6 DARK GREEN SPREADING YEOW

32 KARL FOERSTER FEATHER REED GRASS

INTEGRAL BENCH

WALK OFF GRID

BIKE RACKS (4)

24 SIBERIAN CARPET
3'6" ON CENTER

3 SARGENT CRABAPPLES
CENTER IN PLANTING BED BOTH WAYS

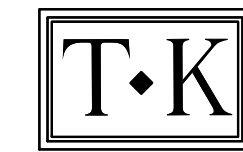
19 LARGE LEAF HOSTA

3 SUGARTINA SUMMERSWEET
3' ON CENTER

24 STELLA D'ORO DAYLILY
18" ON CENTER, STAGGERED

6 SUGARTINA SUMMERSWEET
3' ON CENTER

9 SARGENT CRABAPPLE
10" ON CENTER, STAGGERED



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LANDSCAPE ARCHITECTURE + SITE PLANNING

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BURLINGTON, VERMONT 05401
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3. PROJECT ARCHITECT:
WIEMANN LAMPHERE ARCHITECTS
525 HERCULES DRIVE
COLCHESTER, VERMONT 05446
www.wiemannlamphere.com

4. PROJECT ENGINEER:
KREBS + LANSING CONSULTING ENGINEERS
164 MAIN STREET, SUITE 201
www.krebsandlansing.com

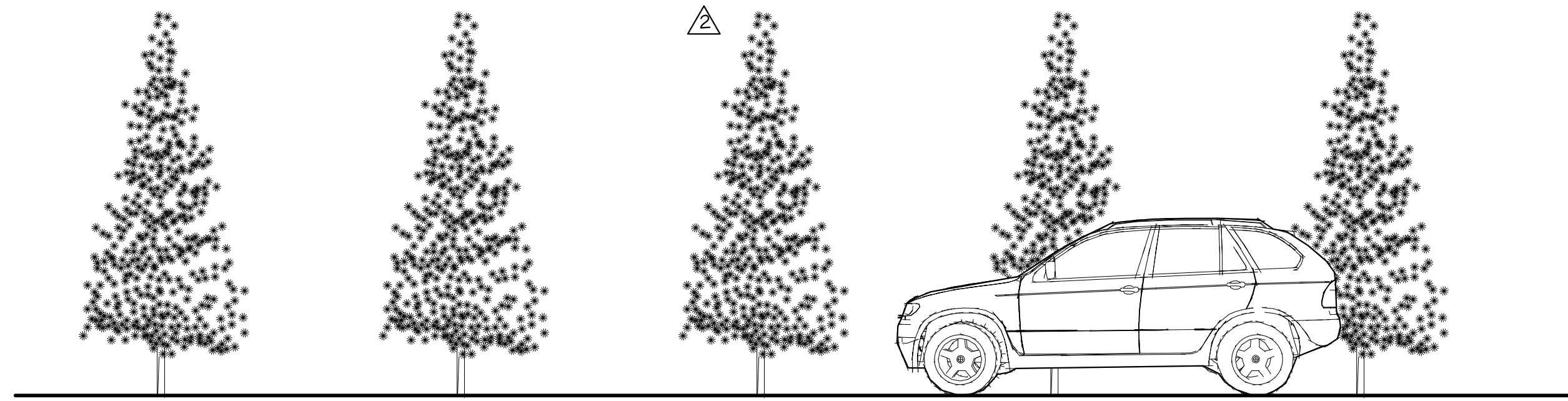
5. SURVEY + SITE PLAN INFORMATION FROM
KREBS + LANSING CONSULTING ENGINEERS

DATE OF LAST REVISION:

△ REVISE SITE PLAN, PLANTINGS, + BUILDING 2-3-2023

△ DELETE ARBORVITAE HEDGE
ADD SERBIAN SPRUCE 2-7-23

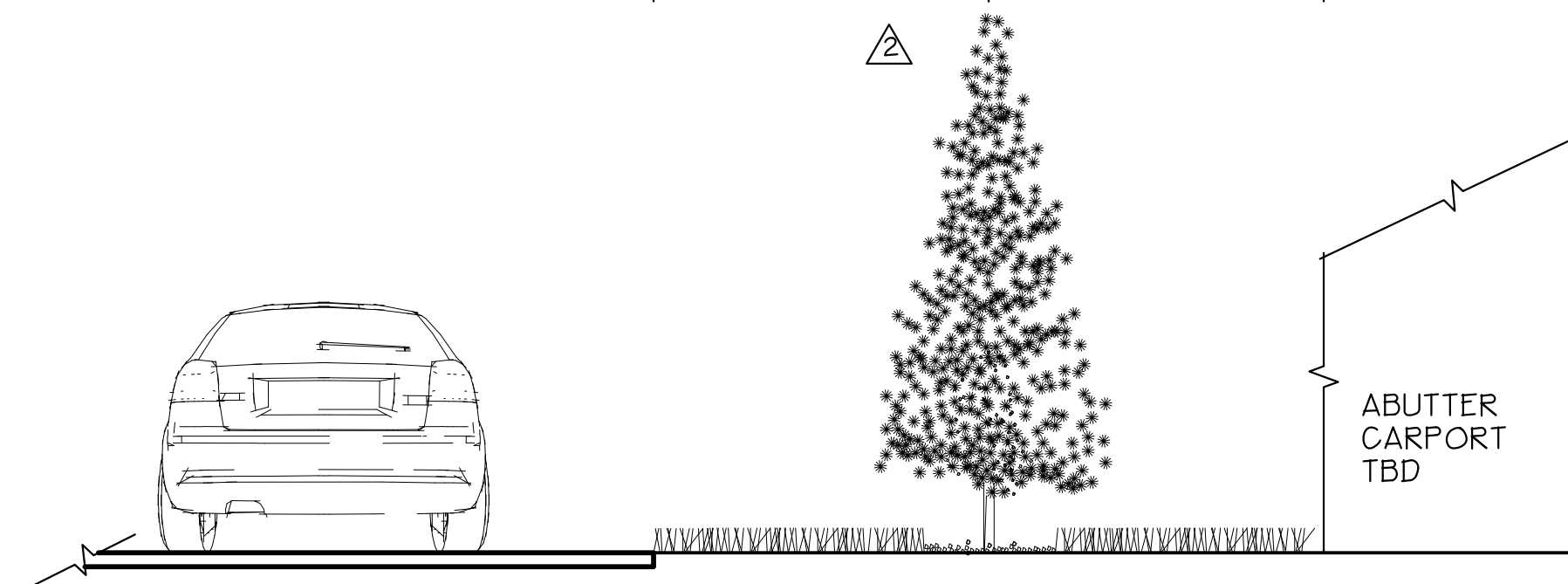
SERBIAN SPRUCE
PLANT AT 8' HIGH / 10' ON CENTER
MATURE HEIGHT 30'-40' / MATURE WIDTH 15'-20'



1 ELEVATION - EAST SIDE OF ENTRANCE DRIVEWAY

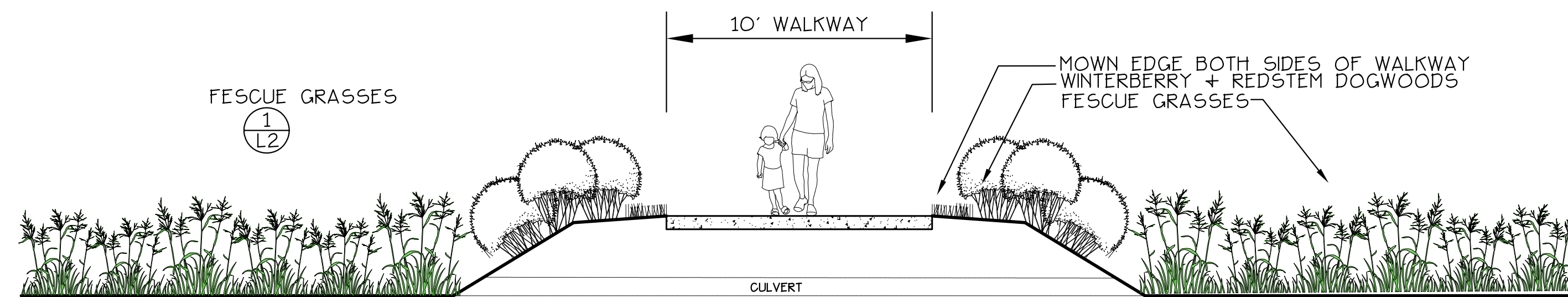
8' OFFSET
EDGE OF PAVEMENT TO CENTER OF ROOT BALL

8' OFFSET
EDGE OF CARPORT TO CENTER OF ROOT BALL



2 ELEVATION - SPRUCE • PROJECT ENTRANCE

USE SAME DETAIL FOR ABUTTING 5' WALKWAY



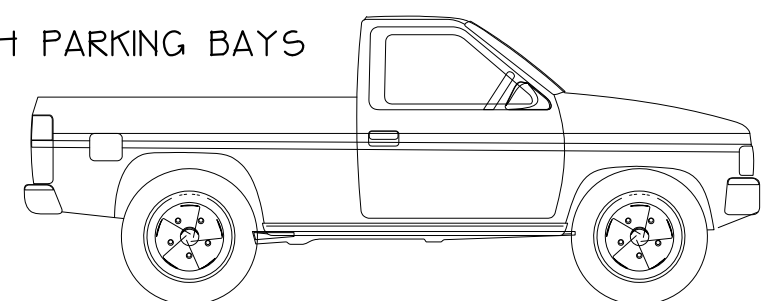
3 WALKWAY + PARKING LOT ISLAND PLANTINGS

EXISTING TREES TO REMAIN
TO BE DETERMINED ON SITE

PROPOSED CALLERY PEAR TREES
OFFSET 7'6" FROM EDGE OF PAVEMENT

MOW STRIP ALONG PERIMETER OF ISLAND
OFFSET 10' FROM EDGE OF PAVEMENT

SOUTH PARKING BAYS

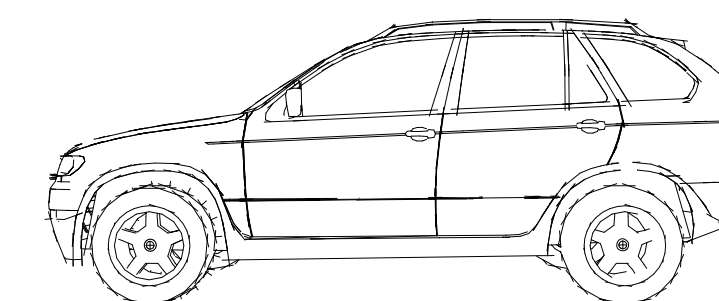


STONE
RUNOFF FILTER

PROPOSED CALLERY PEAR TREES
OFFSET 7'6" FROM EDGE OF PAVEMENT

MOW STRIP ALONG PERIMETER OF ISLAND
OFFSET 10' FROM EDGE OF PAVEMENT

NORTH PARKING BAYS



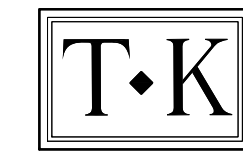
STONE
RUNOFF FILTER

4 PARKING LOT ISLAND PLANTINGS

SECTIONS +
ELEVATIONS

BAYSIDE RECREATION CENTER
BLAKELY ROAD
COLCHESTER, VERMONT

TK PROJECT 2102
2-3-2023
SCALE AS SHOWN



NOTES:

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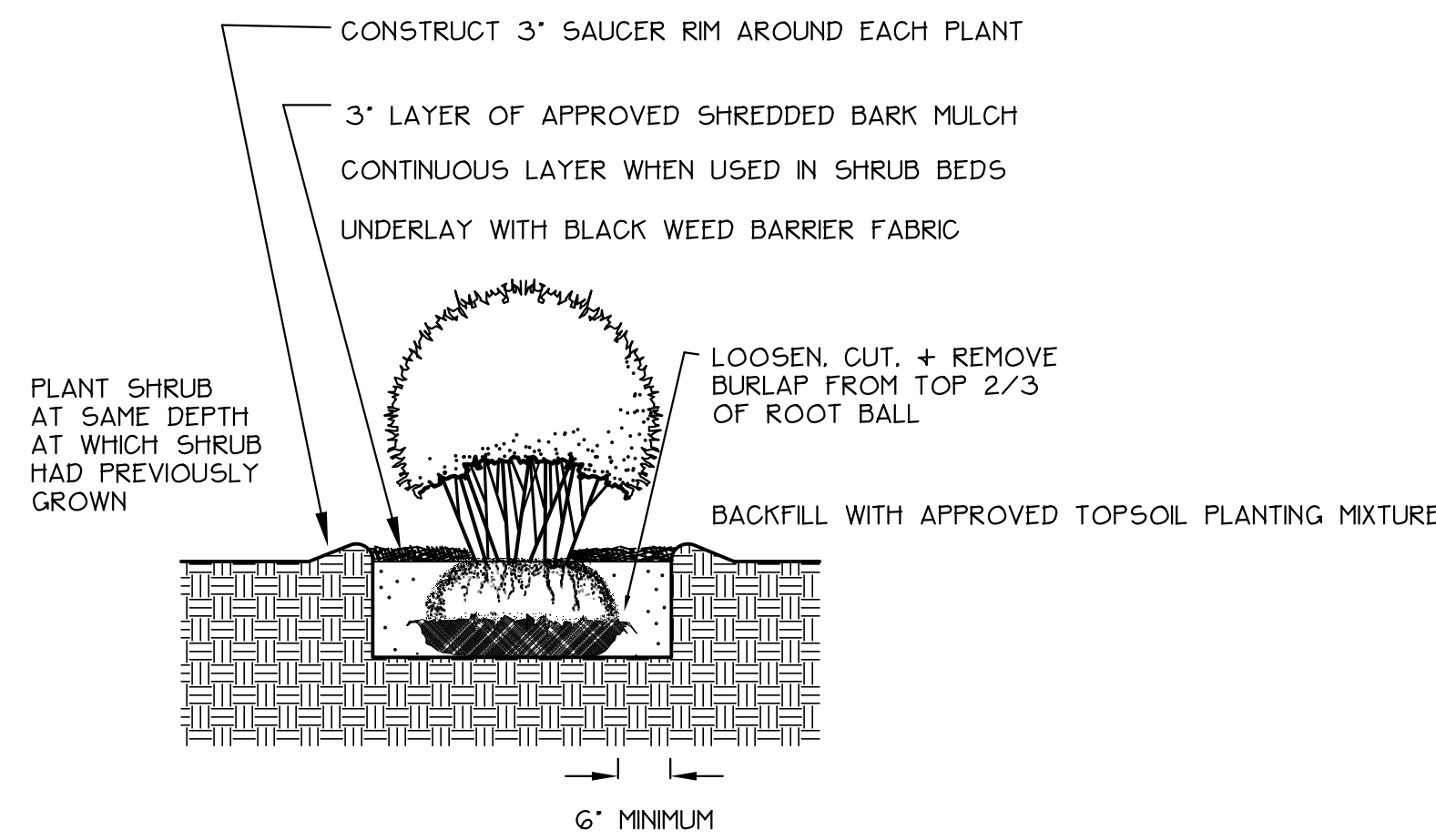
2. OWNER: TOWN OF COLCHESTER
P.O. BOX 65
P.P. COLCHESTER, VERMONT 05446

3. PROJECT ARCHITECT:
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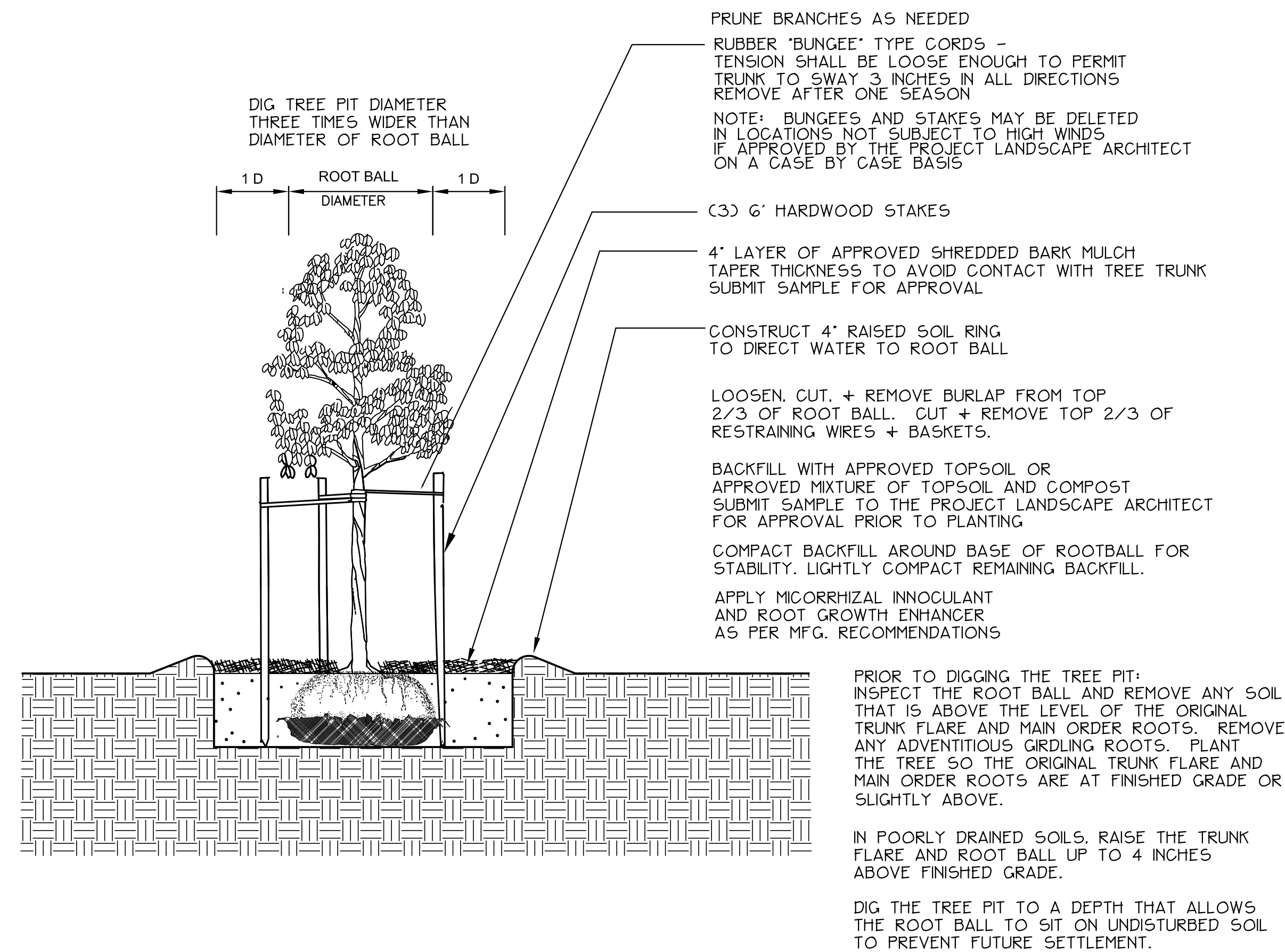
4. PROJECT ENGINEER:
KREBS + LANSING CONSULTING ENGINEERS
164 MAIN STREET, SUITE 201
www.krebsandlansing.com

5. SURVEY + SITE PLAN INFORMATION FROM
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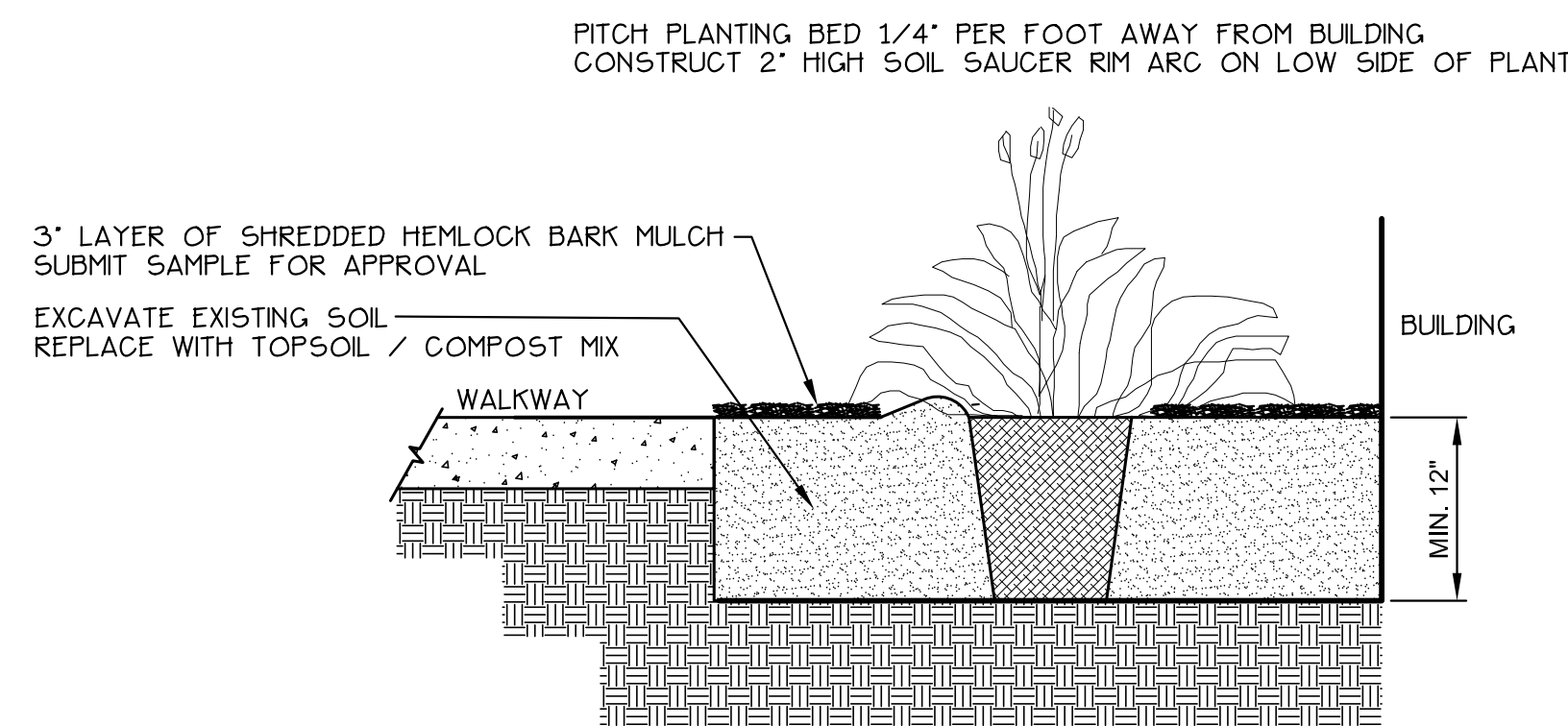
DATE OF LAST REVISION:



1 SHRUB PLANTING



2 TREE PLANTING



3 ORNAMENTAL GRASS + PERENNIAL BEDS

SEED MIX FOR LAWN AREAS		
SEED NAME	% OF MIXTURE	MINIMUM GERMINATION
LIBERTY KENTUCKY BLUEGRASS	25%-35%	85%
VICTORY CHEWINGS FESCUE	20%-30%	85%
CUTLER PERENNIAL RYEGRASS	20%-30%	90%
SPARTAN HARD FESCUE	15%-25%	90%
INERT MATTER	LESS THAN 3%	
WEED SEEDS	LESS THAN 0.1%	
ENDOPHYTE ENHANCED FOR INSECT AND DISEASE RESISTANCE		

4 LAWN SEED MIXTURE

TOPSOIL / COMPOST MIX SPECIFICATION
TOPSOIL / COMPOST MIXTURE MIX 3/8" MINUS COMPOST INTO THE TREE PITS AND PLANTING BEDS SO THAT THE MIXTURE IS 80% TOPSOIL AND 20% COMPOST. TILL OR MIX THE COMPOST INTO THE TOPSOIL SO IT IS UNIFORMLY DISTRIBUTED.

5 COMPOST SPECIFICATION

CONSTRUCTION DETAILS LANDSCAPE PLAN

BAYSIDE RECREATION CENTER
BLAKELY ROAD
COLCHESTER, VERMONT

TK PROJECT 2102
2-3-2023
SCALE AS SHOWN

BAYSIDE RECREATION CENTER

OPINION OF PROBABLE COST OF PLANTING
TKLA 1-19-2023 / REVISED 2-3-2023 / 2-6-2023

PLANT SCHEDULE TREES + PERIMETER PLANTINGS								
QUANTITY	COMMON NAME	BOTANIC NAME	MINIMUM SIZE	CONDITION	NOTE	UNIT PRICE	PRICE	
11	CHANTICLEER CALLERY PEAR	<i>Pyrus calleryana</i> 'Chanticleer'	2 1/2" CAL.	B+B MATCHED		900	9,900	
12	SARGENT CRABAPPLE	<i>Malus sargentii</i>	2 1/2" CAL.	B+B MATCHED		900	10,800	
9	SERBIAN SPRUCE	<i>Picea omorika</i>	8' HEIGHT	B+B		875	7,875	
							\$28,575	SUBTOTAL

PLANT SCHEDULE SHRUBS, PERENNIALS, GROUNDCOVERS								
QUANTITY	COMMON NAME	BOTANIC NAME	MINIMUM SIZE	CONDITION	NOTE	UNIT PRICE	PRICE	
18	ARCTIC FIRE DOGWOOD	<i>Cornus stolonifera</i> 'Arctic Fire'	7 GALLON	CONTAINER	NATIVE	125	2,250	
6	JIM DANDY WINTERBERRY	<i>Ilex verticillata</i> 'Jim Dandy'	5 GALLON	CONTAINER	NATIVE / MALE	105	630	
18	BERRY HEAVY WINTERBERRY	<i>Ilex verticillata</i> 'Berry Heavy'	5 GALLON	CONTAINER	NATIVE / FEMALE	105	1,890	
9	SUGARTINA SUMMERSWEET	<i>Clethra alnifolia</i> 'Sugartina'	5 GALLON	CONTAINER	NATIVE	105	945	
24	SIBERIAN CARPET	<i>Microbiota decussata</i>	5 GALLON	CONTAINER		105	2,520	
32	KARL FOERSTER F. REED GRASS	<i>Calamagrostis acutiflora</i> Karl Foerster	5 GALLON	CONTAINER		75	2,400	
25	LARGE LEAF HOSTA	<i>Hosta</i> var.	3 GALLON	CONTAINER		60	1,500	
6	DARK GREEN SPREADING YEW	<i>Taxus x. media</i> 'Nigra'	48" HEIGHT	B+B		250	1,500	
24	STELLA D'ORO DAYLILY	<i>Heemerocallis</i> 'Stella D'Oro'	3 GALLON	CONTAINER		60	1,440	
							\$15,075	SUBTOTAL

TOTAL PROBABLE COST OF PLANTING	
STREET TREES, PERIMETER PLANTINGS	\$28,575
SHRUBS, PERENNIALS, GROUNDCOVERS	\$15,075
TOTAL	\$43,650



TK Landscape Architects

35 Cherry Street, Unit 404, Burlington, Vermont 05401

Voice: 802-309-9394

Email: terry@tkland.com



Bayside Recreation Center

Existing Tree Valuation

1-24-2023 TKLA

Based on existing trees to remain in the buffer zone

Tree data from KL survey

Method from Purdue University Tree Appraisal Report 2019

Definitions

Tree = Species and circumference

CSA = Cross-sectional area of the subject tree in square inches

UTC = Unit tree cost per square inch from local industry averages

BRC – Basic reproduction cost

CR = Condition Rating

F = Functional Limitations Rating

E = External Limitations Rating

BRC = Basic Reproduction Cost

TAC = Total Additional Costs (cleanup, maintenance)

DRC = Depreciated Reproduction Cost

AV = Appraisal Value = Total Reproduction Cost round to the nearest thousand

Appraisal Value Calculation Formula

Basic Reproduction Cost = (Cross-sectional area of subject tree in square inches) X (Unit tree cost per square inch from local industry averages)

$BRC = CSA \times UTC$

Depreciated Reproduction Cost = Basic Reproduction Cost X (Condition Rating X Functional Limitations Rating X External Limitations Rating) + Total Additional Costs

$DRC = BRC \times (CR \times F \times E) + TAC$

Appraisal Value = Depreciated Reproduction Cost

$AV = DRC$

Assumptions

1. Tree Species & Trunk Diameters taken from KL survey
2. UTC calculation:
 \$900 = Average Cost of 2 ½” Caliper Tree in Vermont including Installation
 2 ½” Caliper Tree = 4.9 Square Inches of Cross-sectional Area
 Unit Tree Cost UTC = \$184 per Square Inch (\$900 ÷ 4.9 SI = \$184)
3. Only existing trees within the perimeter buffer areas specified to be saved were counted in this appraisal. Refer to the map attached to this report (Page 6 of 6).
4. Due to the large number of trees in this appraisal, the rating of 0.5 was used for all CR, F, & E. The rating of 0.5 for all Condition, Functional, and External ratings represents a reasonable and fair average for all the trees. Individual trees may have higher or lower ratings but the average of 0.5 will be a reasonable and fair rating for all the trees combined.

Boundary Area of Trees Included in this Appraisal

This project has designated perimeter buffer setback zones that exceed the regulatory setbacks required in the Development Regulations. Existing Trees inside this buffer will be preserved. For purposes of this appraisal, only trees that are growing within the voluntary buffer zone are being counted:

Setback	Minimum Setback Required by Development Regulations	Proposed Setbacks	Extra Setbacks with Existing Trees to be Preserved
Front Yard Setback	30'	55'	25'
Side Yard Setback	15'	55'	40'
Rear Yard Setback	25'	55'	30'

Calculations for Cross-sectional Area & Basic Reproduction Cost

Tree Diameter (Caliper)	Radius	CSA Cross-sectional area S.I Pi X Radius Squared	BRC Basic Reproduction Cost UTC \$184 X CSA
8”	4”	3.14 X 16” = 50 SI	\$9,200
10”	5”	3.14 X 25 = 79 SI	\$14,536
12”	6”	3.14 X 36 = 113 SI	\$20,792
14”	7”	3.14 X 49 = 154 SI	\$28,336
16”	8”	3.14 X 64 = 201 SI	\$36,984
18”	9”	3.14 X 81 = 254 SI	\$46,736
20”	10”	3.14 X 100 = 314 SI	\$57,776
22”	11”	3.14 X 121 = 380 SI	\$69,920
24”	12”	3.14 X 144 = 452 SI	\$83,168
48”	24”	3.14 X 576 = 1,809 SI	\$332,856

Southwest Buffer

55' Project Setback minus 30' Regulatory Setback

Appraised Value of Existing Trees to be preserved inside this area

Tree Species & Size	CSA	UTC	BRC	CR	F	E	TAC	DRC
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
18" Pine	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
22" Oak	380 SI	\$184	\$69,920	0.5	0.5	0.5	0	\$8,740
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
18" Pine	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
22" Pine	380 SI	\$184	\$69,920	0.5	0.5	0.5	0	\$8,740
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
14" Maple	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
SubTotal SW Buffer								\$94,369

West Buffer

55' Project Setback minus 15' Regulatory Setback

Appraised Value of Existing Trees to be preserved inside this area

Tree Species & Size	CSA	UTC	BRC	CR	F	E	TAC	DRC
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
18" Maple	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
16" Maple	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
24" Pine	452 SI	\$184	\$83,168	0.5	0.5	0.5	0	\$10,396
16" Maple	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
12" Beech	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
24" Pine	452 SI	\$184	\$83,168	0.5	0.5	0.5	0	\$10,396
SubTotal West Buffer								\$92,713

Southeast Buffer

55' Project Setback minus 30' Regulatory Setback

Appraised Value of Existing Trees to be preserved inside this area

Tree Species & Size	CSA	UTC	BRC	CR	F	E	TAC	DRC
12" Hemlock	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
24" Pine	452 SI	\$184	\$83,168	0.5	0.5	0.5	0	\$10,396
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
SubTotal SE Buffer								\$48,668

East Buffer (South End)

55' Project Setback minus 15' Regulatory Setback

Appraised Value of Existing Trees to be preserved inside this area

Tree Species & Size	CSA	UTC	BRC	CR	F	E	TAC	DRC
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
20" Pine	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
18" Pine	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
SubTotal East Buffer (South End)								\$136,091

East Buffer (North End)

55' Project Setback minus 15' Regulatory Setback

Appraised Value of Existing Trees to be preserved inside this area

Tree Species & Size	CSA	UTC	BRC	CR	F	E	TAC	DRC
12" Oak	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
12" Oak	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
12" Pine	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
18" Pine	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
16" Pine	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
18" Oak	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
8" Maple	50 SI	\$184	\$9,200	0.5	0.5	0.5	0	\$1,150
18" Pine	254 SI	\$184	\$46,736	0.5	0.5	0.5	0	\$5,842
14" Oak	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
12" Maple	113 SI	\$184	\$20,792	0.5	0.5	0.5	0	\$2,599
20" Oak	314 SI	\$184	\$57,776	0.5	0.5	0.5	0	\$7,222
8" Maple	50 SI	\$184	\$9,200	0.5	0.5	0.5	0	\$1,150
16" Oak	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
16" Maple	201 SI	\$184	\$36,984	0.5	0.5	0.5	0	\$4,623
14" Pine	154 SI	\$184	\$28,336	0.5	0.5	0.5	0	\$3,542
SubTotal East Buffer (North End)								\$79,764

Total Appraised Value of Existing Trees to be preserved inside Buffers

Buffer	Appraised Value
Southwest Buffer	\$94,369
West Buffer	\$92,713
Southeast Buffer	\$48,668
East Buffer (South End)	\$136,091
East Buffer (North End)	\$79,764
Total Appraised Value	\$451,605



TREE APPRAISAL PLAN

GREEN SHADDED AREA IS THE DIFFERENCE BETWEEN THE REQUIRED FRONT, SIDE, & REAR SETBACKS AND THE VOLUNTARY SETBACK BUFFERS FOR THIS PROJECT



TK Landscape Architects

35 Cherry Street, Unit 404, Burlington, Vermont 05401

Voice: 802-309-9394

Email: terry@tkland.com



February 2, 2023

**Bayside Recreation Center
Supplemental Information for DRB
Staff Notes 8.07A(12) Landscaping**

The pre-construction site is heavily wooded with mature native pine, oak, and maple trees. After construction, the majority of these trees will remain undisturbed. Most of the site will retain the appearance of a natural Colchester wooded area with a mix of hardwood and softwood native trees.

The strategy for the Planting Plan is to use the right plant in the right location. Wherever possible native plants were used. In some areas, non-native plants were chosen because of characteristics like salt tolerance, height & width restrictions, and aesthetics. The native or non-native species designation is shown on Drawing L-1 Plant Schedule and Drawing L-2 Fescue Mix.

The overall blend of plant materials includes existing native trees, proposed native trees, proposed native shrubs, and proposed native grass cultivars. The blend also includes some non-native species where they are warranted.

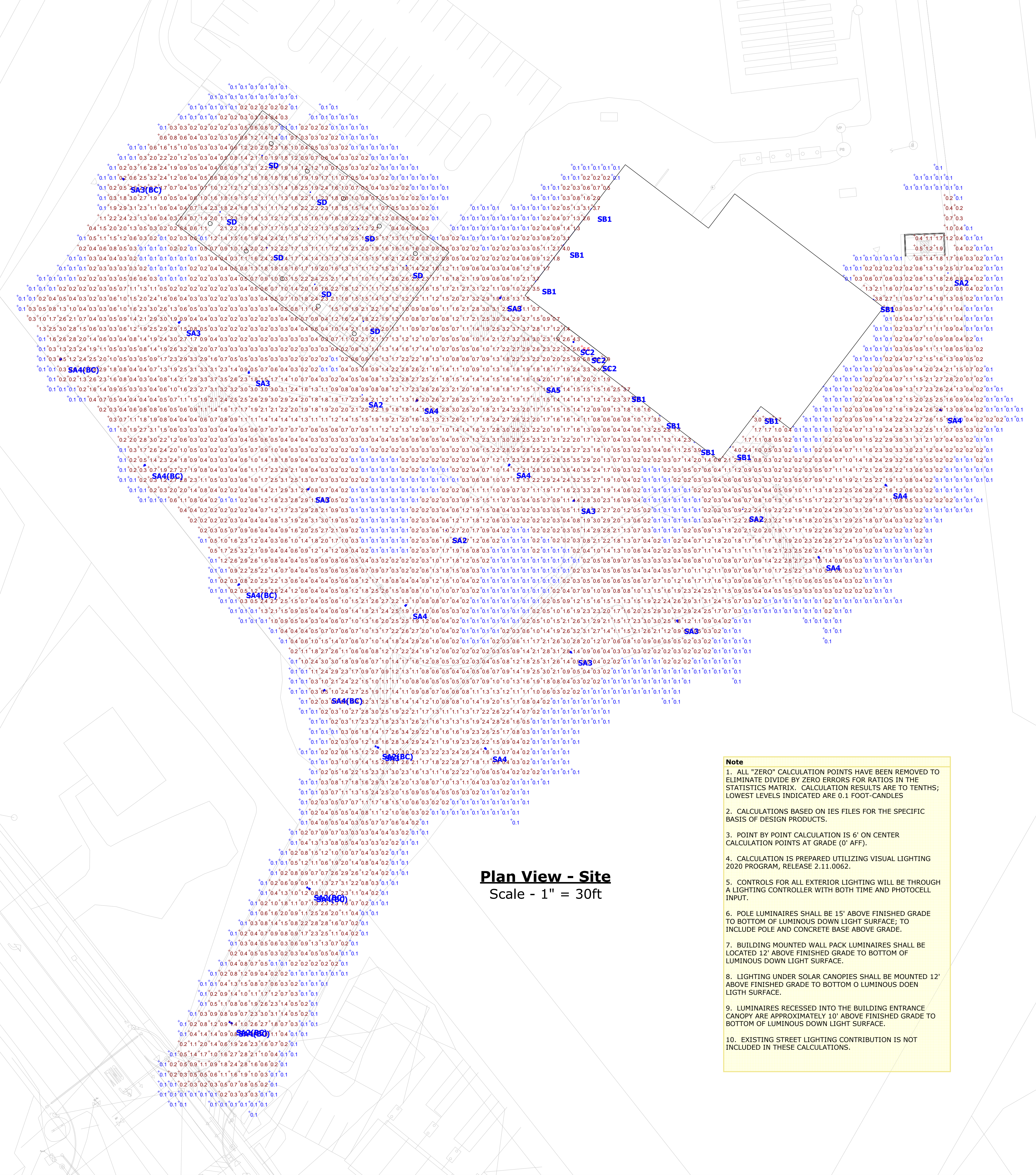
After construction, the majority of plants on this site will be native species.

A handwritten signature in black ink, appearing to read 'Terry Krinsky', with a stylized flourish at the end.

Terry Krinsky, RLA
Landscape Architect

Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	SA2	4	BEACON PRODUCTS	RAR1-80L-25-3K7-T2-U		1	3223	0.9	25.4	
	SA2(BC)	3	BEACON PRODUCTS	RAR-1-80L-25-3K7-2-BC	Ratio Area Size 1	1	1868	0.9	25.59	
	SA3	8	BEACON PRODUCTS	RAR1-80L-50-3K7-3-U		1	5982	0.9	49.7	
	SA3(BC)	1	BEACON PRODUCTS	RAR-1-80L-50-3K7-3-BC	Ratio Area Size 1	1	4109	0.9	49.8	
	SA4	7	BEACON PRODUCTS	RAR1-80L-50-3K7-4W-U		1	5871	0.9	49.7	
	SA4(BC)	6	BEACON PRODUCTS	RAR-1-80L-50-3K7-4W-BC	Ratio Area Size 1	1	3663	0.9	49.8	
	SA5	1	WHITEWAY LIGHTING	RAR-1-80L-50-3K7-SQW-U		1	6009	0.9	49.7	
	SB1	9	Performance IN Lighting	070001	MIMIK 30 FLAT M 20W 830 Type II 0-10V Iron gray	1	1505	0.9	20	
	SC2	3	PRESCOLITE	LBSES-6RD-CS9_30K	6" LiteBox Edge-Lit Surface Downlight, Round, Direct J-Box Mt, Switchable CCT, 1100 Lumens, @3000K, 90+ CRI	1	1178	0.9	13.08	
	SD	8	BEACON PRODUCTS	SRT1-20-3K7-5QW-UNV	SRT1 12" ROUND EDGELIT CEILING	1	2847	0.9	22.6	

Statistics						
Avg	Description	Symbol	Max	Min	Max/Min	Avg/Min
1.0 fc	Site	+	6.5 fc	0.0 fc	N/A	N/A



Plan View - Site
Scale - 1" = 30ft

- Note**
- ALL "ZERO" CALCULATION POINTS HAVE BEEN REMOVED TO ELIMINATE DIVIDE BY ZERO ERRORS FOR RATIOS IN THE STATISTICS MATRIX. CALCULATION RESULTS ARE TO TENTHS; LOWEST LEVELS INDICATED ARE 0.1 FOOT-CANDELS
 - CALCULATIONS BASED ON IES FILES FOR THE SPECIFIC BASIS OF DESIGN PRODUCTS.
 - POINT BY POINT CALCULATION IS 6' ON CENTER CALCULATION POINT AT GRADE (0' AFF).
 - CALCULATION IS PREPARED UTILIZING VISUAL LIGHTING 2020 PROGRAM, RELEASE 2.11.0062.
 - CONTROLS FOR ALL EXTERIOR LIGHTING WILL BE THROUGH A LIGHTING CONTROLLER WITH BOTH TIME AND PHOTOCELL INPUT.
 - POLE LUMINAIRES SHALL BE 15' ABOVE FINISHED GRADE TO BOTTOM OF LUMINOUS DOWN LIGHT SURFACE; TO INCLUDE POLE AND CONCRETE BASE ABOVE GRADE.
 - BUILDING MOUNTED WALL PACK LUMINAIRES SHALL BE LOCATED 12' ABOVE FINISHED GRADE TO BOTTOM OF LUMINOUS DOWN LIGHT SURFACE.
 - LIGHTING UNDER SOLAR CANOPIES SHALL BE MOUNTED 12' ABOVE FINISHED GRADE TO BOTTOM OF LUMINOUS DOWN LIGHT SURFACE.
 - LUMINAIRES RECESSED INTO THE BUILDING ENTRANCE CANOPY ARE APPROXIMATELY 10' ABOVE FINISHED GRADE TO BOTTOM OF LUMINOUS DOWN LIGHT SURFACE.
 - EXISTING STREET LIGHTING CONTRIBUTION IS NOT INCLUDED IN THESE CALCULATIONS.

RATIO Series

AREA/SITE LIGHTER

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions

WARRANTY

- 5 year limited warranty
- See HLI Standard Warranty for additional information

KEY DATA	
Lumen Range	3,000–48,000
Wattage Range	25–340
Efficacy Range (LPW)	118–155
Fixture Projected Life (Hours)	L70>60K
Weights lbs. (kg)	13.5–24 (6.1–10.9)

RATIO SERIES

AREA/SITE LIGHTER

ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXWE-BC

CATALOG #

ORDERING INFORMATION

SA2 only

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
RAR1 Ratio Area Size 1	80L-25 25W - 3,000 Lumens	3K7 3000K, 70 CRI	2 IES TYPE II	Blank for no rotation	UNV Universal 120-277V
	80L-39 39W - 5,200 Lumens	4K7 4000K, 70 CRI	3 IES TYPE III	Optic rotation left	120 120V
	80L-50 50W - 6,000 Lumens	5K7 5000K, 70 CRI	4W IES TYPE IV	Optic rotation right	208 208V
	160L-70 70W - 9,000 Lumens		4F IES TYPE IV Forward		240 240V
	160L-100 100W - 12,000 Lumens		5QW IES TYPE V		277 277V
	160L-115 115W - 15,000 Lumens				347 347V
RAR2 Ratio Area Size 2	160L-135 135W - 18,000 Lumens				480 480V
	320L-110 110W - 15,000 Lumens				
	320L-140 140W - 18,000 Lumens				
	320L-165 165W - 21,000 Lumens				
	480L-185 185W - 24,000 Lumens				
	480L-210 210W - 27,000 Lumens				
	480L-240 240W - 30,000 Lumens				
	480L-255 255W - 36,000 Lumens				
480L-295 295W - 42,000 Lumens					
480L-340 340W - 48,000 Lumens					

Select luminaries where indicated on plan (BC)

Mounting	Color	Control Options Network	Options
ASQ Arm mount for square pole/flat surface	BLT Black Matte Textured	NXWE NX Wireless Enabled (module + radio)	BC Backlight control
ASQU Universal arm mount for square pole/flat surface	BLS Black Gloss Smooth	NXSPW_F NX Wireless, PIR Occ. Sensor, Daylight Harvesting ⁴	F Fusing (must specify voltage)
Mounting Round Poles	DBT Dark Bronze Matte Textured	NXSP_F NX, PIR Occ. Sensor, Daylight Harvesting ⁴	TB Terminal block
A_ Arm mount for round pole ¹	DBS Dark Brone Gloss Smooth	Control Options Other	2PF 2 power feed with 2 drivers ²
A_U Universal arm mount for round pole ¹	GTT Graphite Matte Textured	SCP-40F Programmable occupancy sensor ³	
A4U	LGS Light Grey Gloss Smooth	7PR 7-Pin twist lock receptacle	
Mounting Other	PSS Platinum Silver Smooth	7PR-SC 7-Pin receptacle with shorting cap	
WB Wall bracket	WHT White Matte Textured	7PR-MD40F Low voltage sensor for 7PR	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	WHS White Gloss Smooth	7PR-TL 7-Pin PCR with photocontrol	
K Knuckle	VGT Verde Green Textured	ADD AutoDim Timer Based Dimming	
	Color Option	ADT AutoDim Time of Day Dimming	
	CC Custom Color	Sensors	
		BTS_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens ⁴	
		BTSO_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens, up to 12' mounting height ⁵	

finish to be selected by architect

Notes:
1 Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "_" with "14" for up to 14' mounting height, "40F" for 15-40' mounting height
- 5 Replace "_" with "12" for up to 12' mounting height

STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

RATIO SERIES

AREA/SITE LIGHTER

OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> RARBC80L	Ratio backlight control 80L
<input type="checkbox"/> RARBC160L	Ratio backlight control 160L
<input type="checkbox"/> RARBC320L	Ratio backlight control 320L
<input type="checkbox"/> RARBC480L	Ratio backlight control 480L

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface ²
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles ^{1,2}
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter ^{1,2}
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter ²
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately ²
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle ²

- 1 Replace "-" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Replace "XX" with desired color/paint finish

CONTROLS

Control Options

Standalone

SCPREMOTE Order at least one per project location to program and control

Networked – Wireless

WIR-RME-L wiSCAPE External Fixture Module^{1,2}

NX Networked – Wireless

NXOFM-1R1D-UNV NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 wiSCAPE Gateway required for system programming

RATIO SERIES

AREA/SITE LIGHTER

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

ELECTRICAL DATA

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
		277	0.55	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
		277	0.63	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
208		1.67		
240		1.45		
277		1.25		
347		1.00		
480		0.72		

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.03
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.98
50° C	122° F	0.97

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

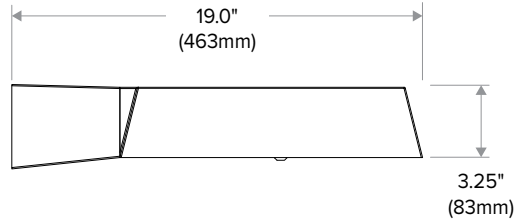
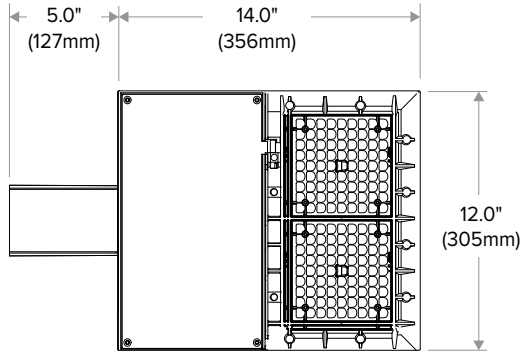
Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

RATIO SERIES

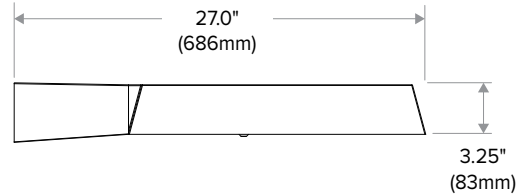
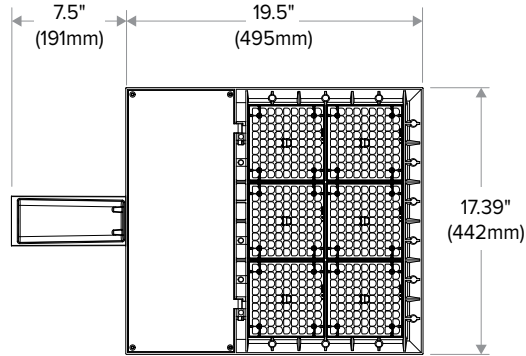
AREA/SITE LIGHTER

DIMENSIONS

RAR1

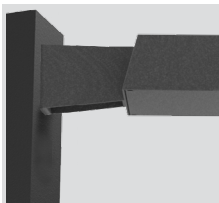


RAR2



ADDITIONAL INFORMATION

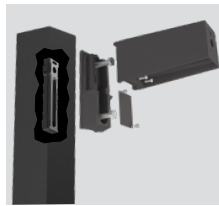
MOUNTING



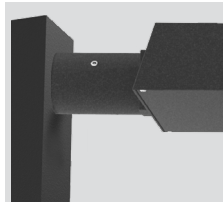
Arm Mount – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor B3 drill pattern.



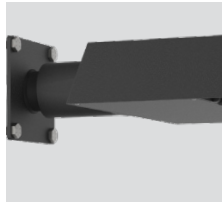
Knuckle – Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



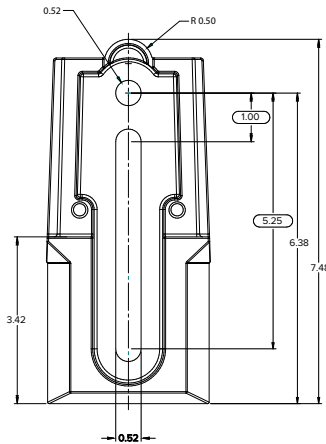
Universal Mounting – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"



MAF – Fits 2-3/8" OD arms Roadway applications.



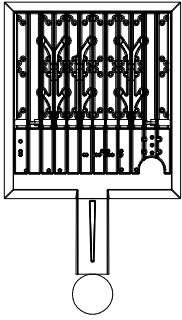
Wall Mount – Wall mount bracket designed for building mount applications.



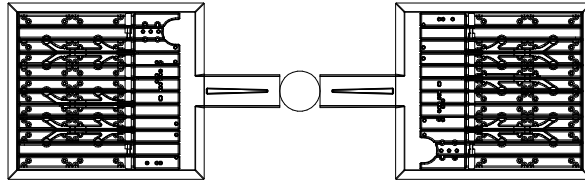
RATIO SERIES

AREA/SITE LIGHTER

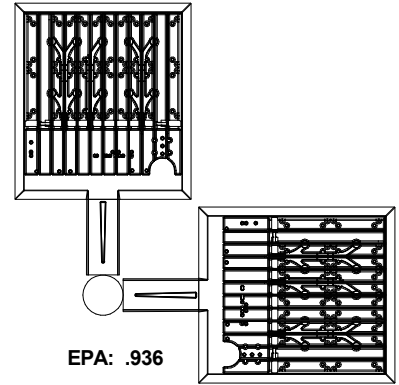
EPA



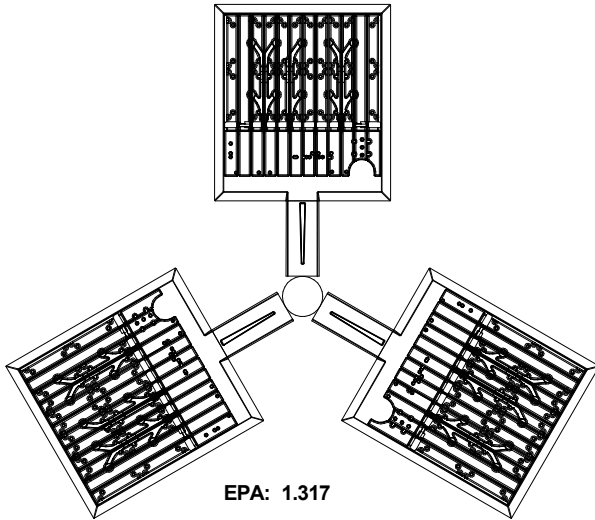
EPA: .607



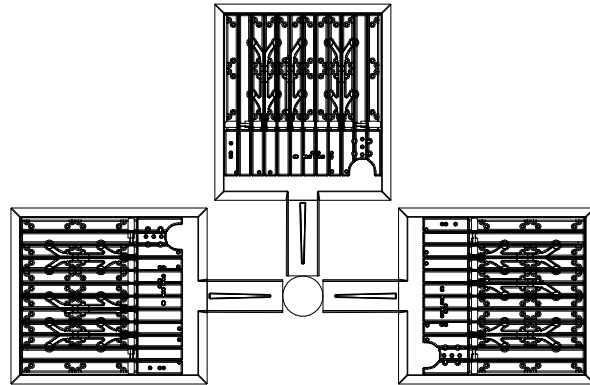
EPA: 1.214



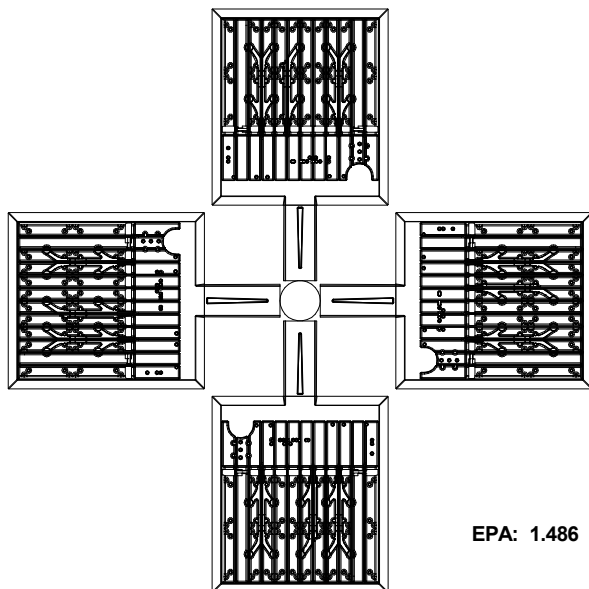
EPA: .936



EPA: 1.317



EPA: 1.486



EPA: 1.486

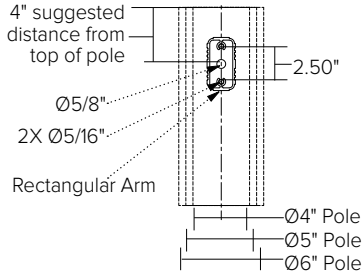
RATIO SERIES

AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

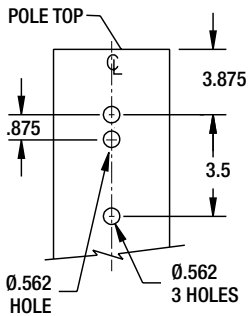
ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

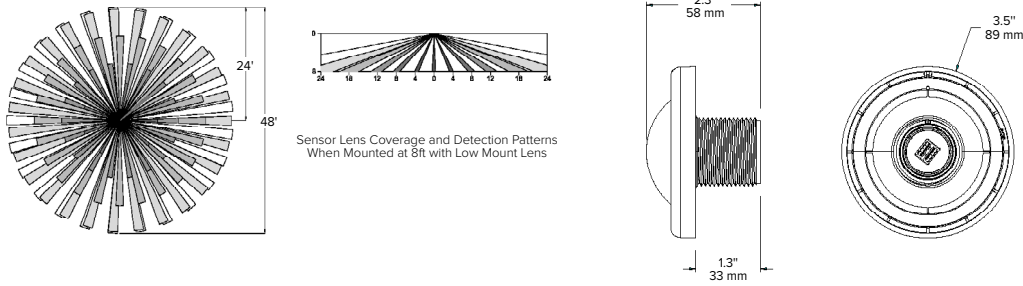
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

RATIO SERIES

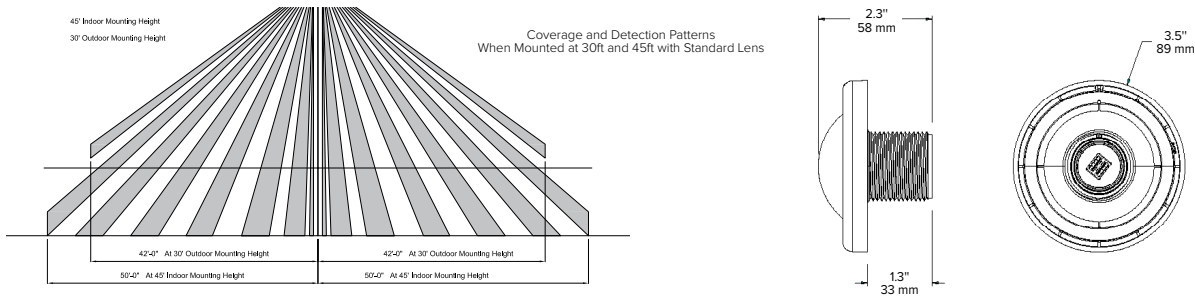
AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

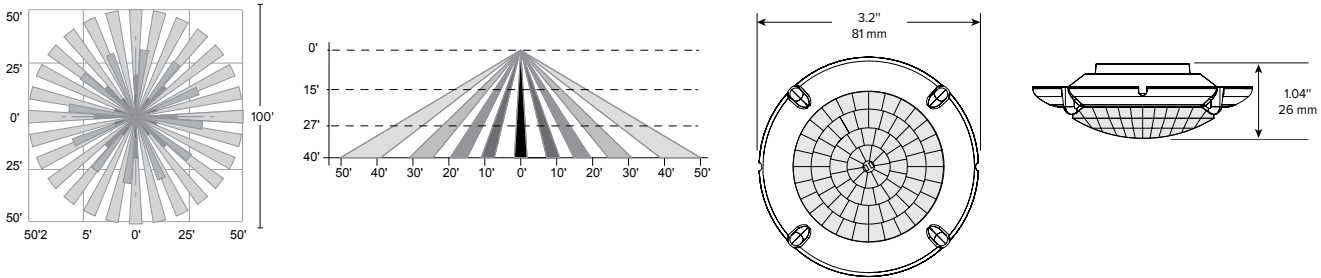
NXSP-14F



NXSP-30F



SCP-40F



RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. ² .13m ²	.56ft. ² .17m ²

RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. ² .17m ²	1.48ft. ² .45m ²

SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

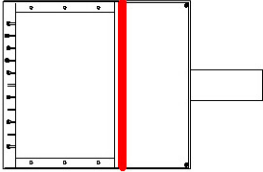
RATIO SERIES

AREA/SITE LIGHTER

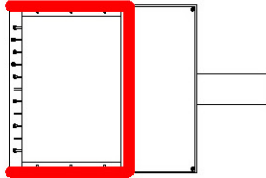
ADDITIONAL INFORMATION (CONT'D)

RATIO HOUSE SIDE SHIELD

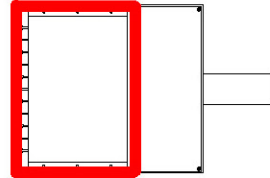
RARx HSS-90-B-xx



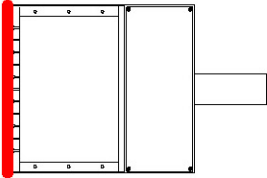
RARx HSS-270-BSS-xx



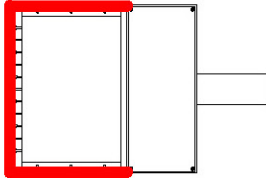
RARx HSS-360-xx



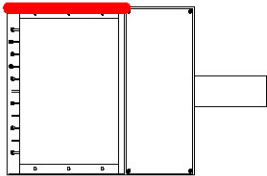
RARx HSS-90-F-xx



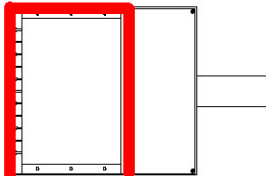
RARx HSS-270-FSS-xx



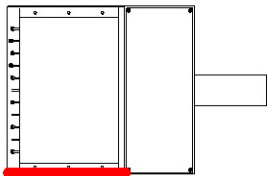
RARx HSS-90-S-xx



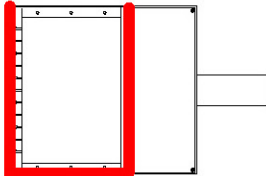
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



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RSS-H SERIES POLES

ROUND STRAIGHT STEEL

Cat.#

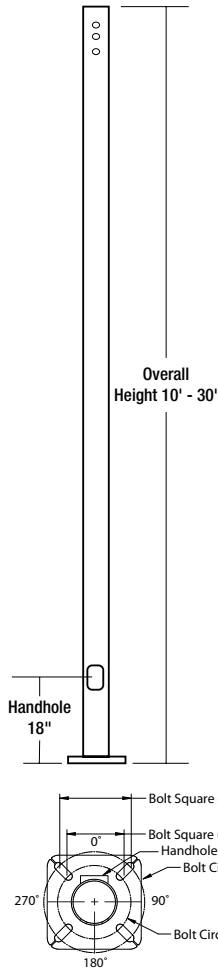
Job: **21025 Colchester Rec
Type SA (POLE)**

Type



HUBBELL
Lighting

Approvals



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

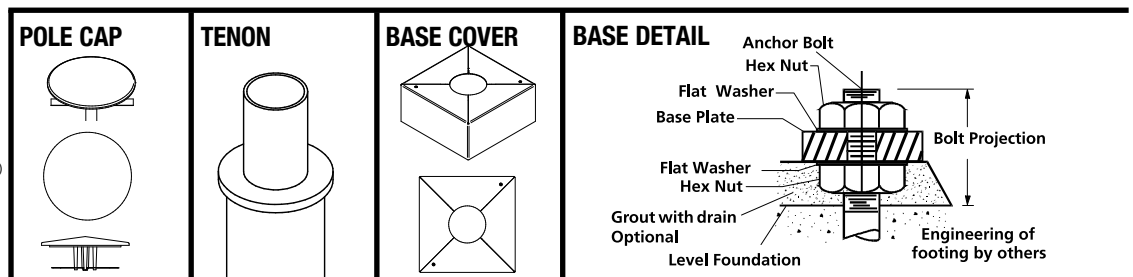
CONSTRUCTION

- **SHAFT:** One-piece straight steel with round cross section, Minimum yield of 46,000 psi (ASTM-A500, Grade C); Longitudinal weld seam to appear flush in shaft wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- **BASE COVER:** Two-piece square aluminum base cover included standard
- **POLE CAP:** Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- **HAND HOLE:** Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- **ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

**15' Max Pole Height per Colchester Regulations for LS2 zone
Select 13', 4" round steel pole on 24" polebase.**



ORDERING INFORMATION

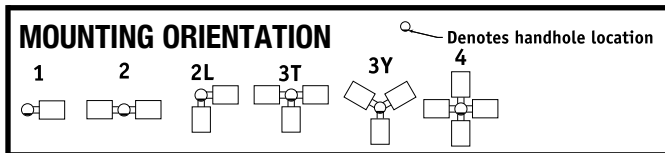
ORDERING EXAMPLE:

RSS - H - 20 - 40 - A/B/C - 2L - S2 - DBT - UL

Reference page 2 for available configurations

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
RSS-H Round Straight Steel Pole Hubbell Outdoor	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 3Y Three fixtures at 120° 4 Four fixtures at 90° TA Tenon (2.375" OD) TB Tenon (2.875" OD) TC Tenon (3.5" OD) OT No drilling (includes pole cap)	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color	GFI 20 Amp GFCI Receptacle and Cover EHH Extra Handhole C05 .5" Coupling C07 .75" Coupling C20 2" Coupling MPB Mid-pole Luminaire Bracket VM2 2nd mode vibration damper LAB Less Anchor Bolts UL UL Certified RBC Round Base Cover

where required at entry drive



DRILL PATTERN

- B1** Cruzer, "AM" arm
- B3** 2 bolt (2-1/2" spacing), Ratio arm; Ratio "A" arm
- S2** 2 bolt (3-1/2" spacing)

finish to be selected by architect

1 Specify option location using logic found on page 2 (Option Orientation)

ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper



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HUBBELL
Lighting

RSS-H POLES-SPEC AUGUST 3, 2020 8:54 AM

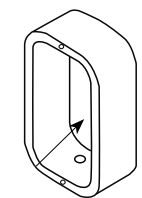
cut to 13'

ORDERING INFORMATION Cont.

Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Base Plate Thickness	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters										
RSS-H-10-40-A	10	3.0	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	52
RSS-H-12-40-A	12	3.7	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	62
RSS-H-14-40-A	14	4.3	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	72
RSS-H-16-40-A	16	4.9	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	83
RSS-H-18-40-A	18	5.5	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	93
RSS-H-20-40-A	20	6.1	4" round	0.125"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	103
RSS-H-10-40-B	10	3.0	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	77
RSS-H-12-40-B	12	3.7	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	92
RSS-H-14-40-B	14	4.3	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	107
RSS-H-16-40-B	16	4.9	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	122
RSS-H-18-40-B	18	5.5	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	138
RSS-H-20-40-B	20	6.1	4" round	0.188"	9"	7.5" - 10"	5.30" - 7.07"	9"	0.75	3/4" x 30" x 3"	3.5"	153
RSS-H-10-50-B	10	3.0	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	97
RSS-H-12-50-B	12	3.7	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	116
RSS-H-14-50-B	14	4.3	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	135
RSS-H-16-50-B	16	4.9	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	155
RSS-H-18-50-B	18	5.5	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	174
RSS-H-20-50-B	20	6.1	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	193
RSS-H-25-50-B	25	7.6	5" round	0.188"	11"	8.0" - 11"	5.66" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	242
RSS-H-20-60-C	20	6.1	6" round	0.250"	11"	9.0" - 11"	6.36" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	307
RSS-H-25-60-C	25	7.6	6" round	0.250"	11"	9.0" - 11"	6.36" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	384
RSS-H-30-60-C	30	9.1	6" round	0.250"	11"	9.0" - 11"	6.36" - 7.78"	10.25	1.0	1" x 36" x 4"	4.5"	461

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

EHH - EXTRA HANDHOLE

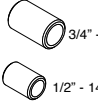


Provision for Grounding

C05 - C07 - C20 - COUPLING



2" - 11.5 NPSC Threads



3/4" - 14 NPSC Threads

1/2" - 14 NPSC Threads

VM2 - VIBRATION DAMPER 2ND MODE



Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

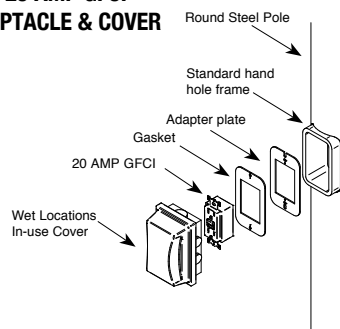
VM2SXX - VIBRATION DAMPER 2ND MODE



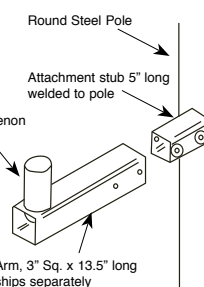
VM2S08 - 8'
VM2S12 - 12'
VM2S16 - 16'
VM2S20 - 20'
VM2S24 - 24'

Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI - 20 AMP GFCI RECEPTACLE & COVER

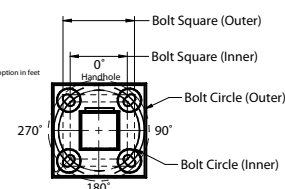


MPB - MID POLE BRACKET



OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **RSS-H-20-40-A-TA-DBT-C05-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.



For more information about pole vibration and vibration dampers, please consult http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.pdf
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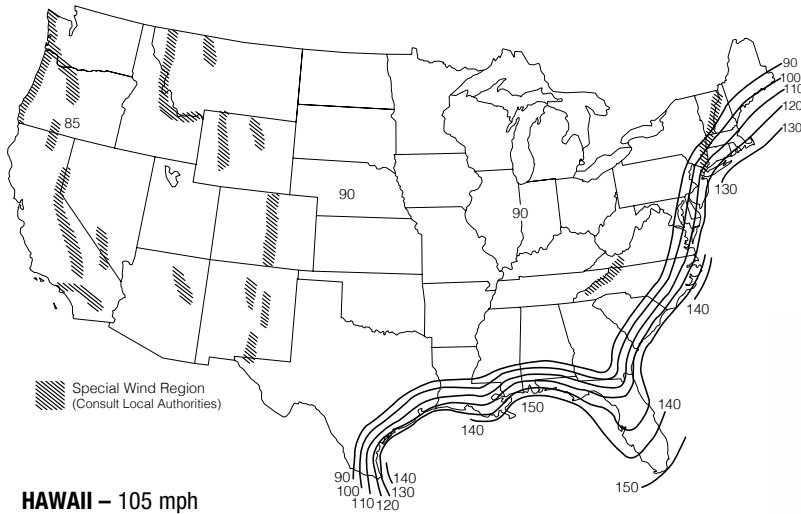
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HUBBELL Lighting

ASCE7-05 WIND MAP



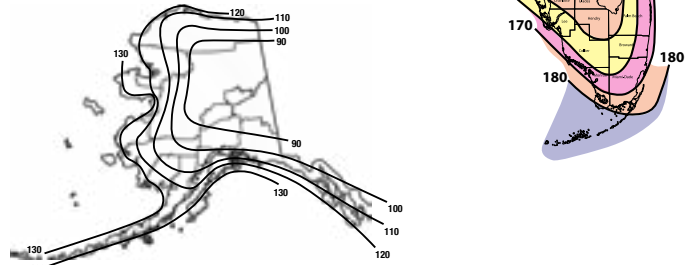
HAWAII – 105 mph
 PUERTO RICO – 145 mph

*PRINTED WITH PERMISSION FROM ASCE

FLORIDA REGION WIND MAP

- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds

Catalog Number	85	90	100	110	120	105	145
RSS-H-10-40-A	21.0	18.7	15.0	12.2	10.1	13.5	6.8
RSS-H-12-40-A	16.8	14.8	11.8	9.5	7.7	10.5	5.1
RSS-H-14-40-A	13.6	12.0	9.4	7.4	5.9	8.3	3.9
RSS-H-16-40-A	11.1	9.7	7.5	5.8	4.5	6.6	2.9
RSS-H-18-40-A	9.0	7.8	5.8	4.4	3.3	5.1	2
RSS-H-20-40-A	7.2	6.2	4.5	3.1	2.2	3.8	1.2
RSS-H-10-40-B	25.0	25.0	22.4	18.4	15.3	20.2	10.4
RSS-H-12-40-B	25.0	22.3	17.9	14.5	12.0	16.1	8.1
RSS-H-14-40-B	20.6	18.3	14.6	11.7	9.6	13	6.4
RSS-H-16-40-B	17.2	15.2	12.0	9.5	7.7	10.7	5.1
RSS-H-18-40-B	14.3	12.6	9.8	7.6	6.1	8.6	3.9
RSS-H-20-40-B	11.8	10.3	7.9	6.0	4.7	6.9	2.9
RSS-H-10-50-B	25.0	25.0	25.0	25.0	25.0	25.0	17.7
RSS-H-12-50-B	25.0	25.0	25.0	24.8	20.8	25.0	14.3
RSS-H-14-50-B	25.0	25.0	24.7	20.5	17.2	22.4	11.7
RSS-H-16-50-B	25.0	25.0	20.7	17.1	14.3	18.8	9.7
RSS-H-18-50-B	24.5	21.6	17.3	14.3	11.9	15.7	8.0
RSS-H-20-50-B	20.6	18.1	14.4	11.8	9.8	13.0	6.5
RSS-H-25-50-B	13.6	11.7	9.1	7.3	6.0	8.1	3.8
RSS-H-20-60-C	25.0	25.0	25.0	25.0	21.5	25.0	14.8
RSS-H-25-60-C	25.0	25.0	21.9	18.0	15.0	19.8	10.1
RSS-H-30-60-C	21.8	19.4	15.6	12.7	10.6	14.1	6.9

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds

Catalog Number	115	120	130	140	150	160	170	180
RSS-H-10-40-A	25.0	23.5	20.0	17.0	14.5	12.5	11.0	10.0
RSS-H-12-40-A	21.0	19.0	16.0	13.5	11.5	9.5	9.0	8.0
RSS-H-14-40-A	17.5	15.7	13.0	10.8	9.0	7.5	7.0	6.5
RSS-H-16-40-A	14.2	13.0	10.5	8.5	7.0	5.8	5.0	4.5
RSS-H-18-40-A	11.6	10.4	8.2	6.8	5.4	4.4	4.0	3.6
RSS-H-20-40-A	9.5	8.4	6.5	5.2	4.0	3.0	2.8	2.5
RSS-H-10-40-B	25.0	25.0	25.0	22.0	19.0	16.5	15.2	13.4
RSS-H-12-40-B	25.0	25.0	20.8	17.6	15.1	13.0	12.0	10.6
RSS-H-14-40-B	22.5	20.4	17.2	14.4	12.2	10.4	10.0	8.8
RSS-H-16-40-B	18.9	17.0	14.1	11.7	9.8	8.2	7.5	7.0
RSS-H-18-40-B	15.6	14.1	11.5	9.4	7.7	6.4	6.0	5.7
RSS-H-20-40-B	13.0	11.6	9.3	7.5	6.0	4.8	4.0	3.5
RSS-H-10-50-B	25.0	25.0	25.0	25.0	25.0	23.6	20.8	18.4
RSS-H-12-50-B	25.0	25.0	25.0	25.0	22.2	19.3	16.8	14.8
RSS-H-14-50-B	25.0	25.0	23.9	21.5	18.4	15.9	13.8	12.1
RSS-H-16-50-B	25.0	23.8	19.6	18.0	15.4	13.2	11.4	9.9
RSS-H-18-50-B	21.8	19.6	16.1	15.1	12.8	10.8	9.3	8.0
RSS-H-20-50-B	18.2	16.4	14.1	12.7	10.7	9.0	7.7	6.5
RSS-H-25-50-B	11.7	10.2	9.4	8.4	6.8	5.6	4.5	3.7
RSS-H-20-60-C	25.0	25.0	25.0	22.1	18.8	16.1	13.9	12.0
RSS-H-25-60-C	24.7	22.4	18.4	15.3	12.8	10.8	9.1	7.6
RSS-H-30-60-C	18.2	16.3	13.2	10.7	8.7	7.0	5.7	4.5

NOTES

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

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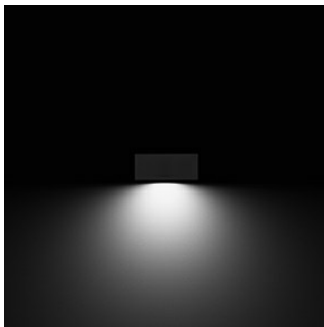


MIMIK 30 FLAT M



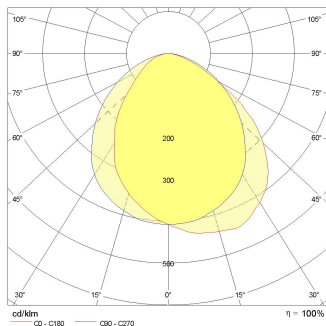
Part number	070001
Lampholder:	LED
Luminaire wattage [W]:	20W
Colour / Finish:	AN-96 / Textured
IP degree of protection:	IP65
CRI:	80
Kelvin:	3000
IESNA Type:	Type II
BUG Rating:	B1-U0-G0
Luminaire lumen output [lm]:	1506 lm
L:	L80
B:	B10
Lifetime:	60000 h
cULus:	✓
Voltage:	120/277 V
Min. ambient temperature [°C]:	-30
Max. ambient temperature [°C]:	25

FINISH TO BE SELECTED BY ARCHITECT

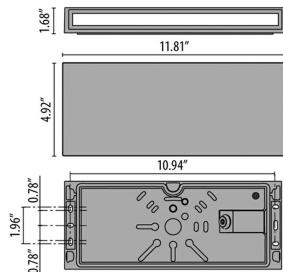


Description

Photometric data

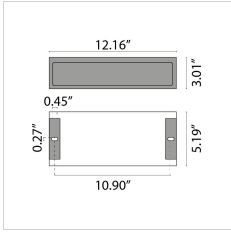


Technical drawings



MIMIK30FLATM

310447



LBSSES-RD

EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT

LITEBOX
edge-lit

FEATURES

- 4", 6", and 8" aperture, delivering 750-1750 lumens
- Low surface profile of 1/2"
- Quick snap installation with no housing required
- Installs directly to most 3-1/2" and 4" J-Boxes
- CCT Switchable (2700K/3000K/3500K/4000K, 90+ CRI)
- Universal 120-277V, ideal for commercial applications
- All models standard with 0-10V/Triac/ELV dimming



RELATED PRODUCTS

- [Ø 4" Edge-lit Family](#)
- [Ø 6" Edge-lit Family](#)
- [Ø 8" Edge-lit Family](#)

SERVICE PROGRAMS



SPECIFICATIONS

CONSTRUCTION

- Durable cast aluminum low profile trim with 1/2" surface profile
- Suitable for New Construction or remodel, IC or Non-IC applications
- Eliminates the need for a recessed housing, ideal for areas with limited plenum space
- Optional non-conductive Decorative Color Trim accessories available in White, Black, Silver, and Brushed Oil Rubbed Bronze

OPTICS

- Utilizes the latest Edge-Lit LED technology
- Integral diffuse polycarbonate lens provides uniform light distribution
- Light distribution is free of distracting bright spots
- Visually comfortable with low glare

ELECTRICAL

- Edge-Lit LED array with 3 SDCM color consistency
- Long LED life: Maintains 80% of lumen output at 54,000 hours of operation, L80 at >54,000 hours (TM-21)
- CCT Switchable (2700K/3000K/3500K/4000K)
- 90+ CRI with R9 >50
- High efficiency integral driver with universal 120V-277V, 50/60Hz

ELECTRICAL (CONTINUED)

- All models have flicker-free dimming with 120-277V 0-10V Dim to Off or 120V Triac or ELV phase cut to 5%
- See Additional Information section for a list of recommended dimmers
- EMI: Meets Class A (<24dba) noise rating, FCC CFR 47 Part 15 Class B, ≥0.9 Power Factor, <20% THD

INSTALLATION

- Installs directly to most common 3-1/2" or 4" octagonal and round junction boxes with a minimum 1-1/2" depth including fire rated (by others)
- Metal plate mounts to the J-Box and accepts snap-in spring clips for a secure fit
- CCT Switchable Models: Field select one of four CCTs at installation with an integral switch accessible on the back of the driver

CERTIFICATIONS

- cETLus listed to UL1598
- Can be used in direct contact with insulation (IC Rated)
- Suitable for wet locations, covered ceiling
- Suitable for use in clothes closets when installed in accordance to N.E.C. 410.16
- ENERGY STAR® certified
- Meets CA Title 24 High Efficacy (JA8 2019) requirements

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	761-1754
Wattage Range	9.9-19.3
Efficacy Range (LPW)	77-91*
Reported Life (Hours)	L80 / >54,000
Input Current (mA)	83-161

*Based on 3000K, 90 CRI

LBSES-RD

EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT



Click icon for Stock list and details

ORDERING GUIDE

Example: LBSES-4RD-CS9-WH

CATALOG #

HOUSING

Model/CCT Configuration	Aperture/Shape/Function	CCT/CRI	Trim Color
LBSES Edge-Lit Surface, Switchable CCT, 120-277V with 0-10V/Triac/ELV dimming	4RD 4" Round, Direct J-Box Mount, 750 Lumens 6RD 6" Round, Direct J-Box Mount, 1100 Lumens 8RD 8" Round, Direct J-Box Mount, 1750 Lumens	CS9 Switchable CCT, 90 CRI 2700K/3000K/3500K/4000K	WH White

SC2

Accessories

- LBSE-4RD-T-WH** Trim Accessory, 4" Round, White
- LBSE-4RD-T-BL** Trim Accessory, 4" Round, Black
- LBSE-4RD-T-BBZ** Trim Accessory, 4" Round, Brushed Oil Rubbed Bronze
- LBSE-4RD-T-SVR** Trim Accessory, 4" Round, Silver

- LBSE-6RD-T-WH** Trim Accessory, 6" Round, White
- LBSE-6RD-T-BL** Trim Accessory, 6" Round, Black
- LBSE-6RD-T-BBZ** Trim Accessory, 6" Round, Brushed Oil Rubbed Bronze
- LBSE-6RD-T-SVR** Trim Accessory, 6" Round, Silver

- LBSE-8RD-T-WH** Trim Accessory, 8" Round, White
- LBSE-8RD-T-BL** Trim Accessory, 8" Round, Black
- LBSE-8RD-T-BBZ** Trim Accessory, 8" Round, Brushed Oil Rubbed Bronze
- LBSE-8RD-T-SVR** Trim Accessory, 8" Round, Silver

- LBSES-C-12** Extension Cable, LBSE/LBSES, 12"
- LBSES-C-24** Extension Cable, LBSE/LBSES, 24"

finish to be selected by architect

LBSSES-RD

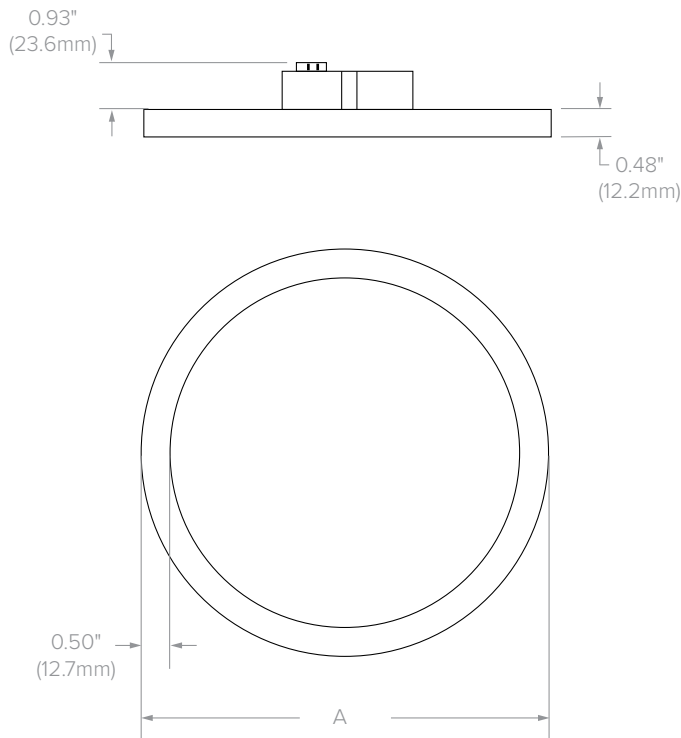
EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT

PERFORMANCE DATA TABLE

Nominal Aperture	Nominal Lumens	Cat #	CCT**	CRI	Delivered Lumens	Watts	LPW
4"	750	LBSSES-4RD-CS9-WH	3000K	90	761	9.9	77
6"	1100	LBSSES-6RD-CS9-WH	3000K	90	1178	13.1	90
8"	1750	LBSSES-8RD-CS9-WH	3000K	90	1754	19.3	91

** For all other CCTs, use the Lumen Multiplier in Photometry Section

DIMENSIONS



Dimensional Data	
Aperture (Cat Logic)	"A"
4" (4RD)	ø4.61" (117.1mm)
6" (6RD)	ø6.00" (152.4mm)
8" (8RD)	ø8.00" (203.2mm)

LBSSES-RD

EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT

PHOTOMETRY

LBSSES-4RD-CS9-WH

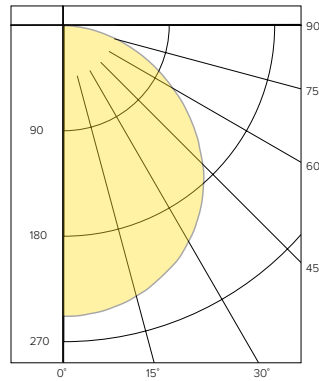
LUMINAIRE DATA

Test No.	20.00839
Description	4" Downlight, Color Switchable, 90 CRI
Delivered Lumens	760
Watts	10.4W
Efficacy	77
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	338	44.5
0-60	597	78.6
0-90	760	100
0-180	760	100

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	263
5	262
15	253
25	237
35	212
45	178
55	137
65	92
75	52
85	14
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	46986
55°	44478
65°	41179
75°	37441
85°	29499

*Candela/Square Meter

LBSSES-6RD-CS9-WH

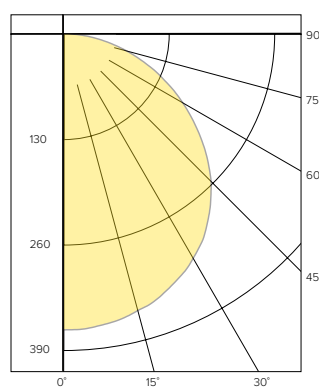
LUMINAIRE DATA

Test No.	20.00836
Description	6" Downlight, Color Switchable @3000K, 90 CRI
Delivered Lumens	1177
Watts	13.1W
Efficacy	90
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	513	43.5
0-60	915	77.7
0-90	1177	100
0-180	1177	100

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	393
5	392
15	380
25	358
35	325
45	275
55	213
65	147
75	84
85	25
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	30710
55°	29282
65°	27498
75°	25563
85°	22384

*Candela/Square Meter

LBSSES-8RD-CS9-WH

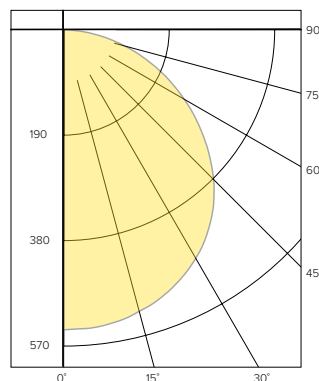
LUMINAIRE DATA

Test No.	20.00838
Description	8" Downlight, Color Switchable, @3000K, 90 CRI
Delivered Lumens	1754
Watts	19.3
Efficacy	91
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	765	43.6
0-60	1365	78.0
0-90	1754	100
0-180	1754	100

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	583
5	582
15	566
25	535
35	484
45	411
55	318
65	220
75	123
85	37
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	23365
55°	22285
65°	20987
75°	19150
85°	16960

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K, 90 CRI	30K, 90 CRI	35K, 90 CRI	40K, 90 CRI
Multiplier	0.92	1.00	1.08	1.04

Photometrics above are published at nominal 3000K, 90 CRI. This table may be used to approximate the lumen values at different Kelvin temperature settings. Power consumption remains the same.

LBSSES-RD

EDGE-LIT ROUND SWITCHABLE CCT DIRECT J-BOX MOUNT DOWNLIGHT

ADDITIONAL INFORMATION

Dimming Compatibility

See the DIMMING link for more information on dimming compatibility and recommended dimmer list.

J-Box Compatibility

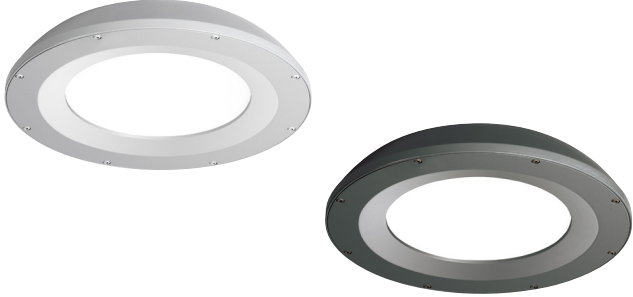
LITEBOX® Edge-Lit Direct J-Box Mount downlights are compatible with many standard 3-1/2" and 4" octagonal and round J-Boxes with a 1-1/2" minimum depth. Fire rated J-Boxes may also be used.



SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

DATE:	LOCATION:
21025 Colchester Rec	
TYPE:	PROJECT:
Type SD	
CATALOG #:	



FEATURES

- For ceiling mount and parking garage applications from an 8–15 foot mounting height
- Edge-lit flat lens for optimal visual comfort and uniformity across the lens
- Two optical distributions specifically design for parking garage and canopy applications are available making the Beacon Edge-Lit luminaire both versatile and functional
- UL/cUL listed for wet locations, IP65 and 3G vibration rated
- Occupancy sensor available for complete on/off and dimming operation



SPECIFICATIONS

HOUSING

- Die-cast aluminum housing ensures long electrical component life and luminaire performance
- Corrosion resistant powder coat finish both protects and provides architectural appearance
- One piece molded silicone gasket ensures weather proof seal
- Thermally isolated driver mounted to dedicated bracket reduces operating temperatures and increases driver life and reliability

OPTICS

- Edge-lit acrylic light guide provides blended non-pixelated light for unprecedented visual comfort
- Choice of multiple light outputs with lumen range of 2000–6000
- Two distribution types: Type 5 Square Wide, Type 5 Concentrated
- Wide variety of CCT's and CRI's offered: 3000K (70CRI), 3000K (80CRI), 3500K (80CRI), 4000K (70CRI), 4000K (80CRI) or 5000K (70 CRI) CCT

ELECTRICAL

- 120V–277V 50/60Hz available
- 0–10V dimming drivers are RoHS compliant
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 24" standard

INSTALLATION

- Standard quick mount plate over standard 4" junction box or octagonal junction box and allows for simplified fixture installation
- Standard luminaire accepts a rigid or 3/4" NPT stem for pendant mounting via wet location j-box (by others)
- Optional bird deterrent shroud available for field installation

OPTIONS/CONTROLS

- Standalone occupancy sensor available for on/off or dimming operation
- Uplight option provides approximately 800 lumens and consumes only 8 additional watts
- Vandal resistant wire guard available as an option for factory installation or as an accessory for field installation
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

CERTIFICATIONS

- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplight for 3000K and warmer CCTs
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020.
- IP65

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	2000–6800
Wattage Range	15–55W
Efficacy Range (LPW)	99–118
Weight lbs. (kg)	8 (3.6)

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ORDERING GUIDE

Example: SRT1-35-3K7-5QW-UNV-BLT-WG

CATALOG # _____

Series	Engine	CCT	Distribution	Voltage	Color/Finish	Options
SRT1 Edge-Lit Parking Garage Size 1	15 15W Nominal 2000 lm	3K7 3000K, 70 CRI	5QW Type 5 Square Wide	UNV 120V- 277V	BLT Black Matte Textured	WG Wire Guard
	20 20W Nominal 2500 lm	3K8 3000K, 80 CRI	5C Type 5 Concentrated	120 120V	BLS Black Gloss Smooth	UD Uplight Module ³
	35 35W Nominal 4500 lm	35K8 3500K, 80 CRI		208 208V	DBT Dark Bronze Matte	F Single Fuse (120, 277) ¹
	55 55W Nominal 6500 lm	4K7 4000K, 70 CRI		240 240V	DBS Dark Bronze Gloss Smooth	LD3 36" Lead Length ²
		4K8 4000K, 80 CRI		277 277V	GTT Graphite Matte Textured	LD6 72" Lead Length ²
		5K7 5000K, 70 CRI			LGS Light Grey Gloss Smooth	LD9 108" Lead Length ²
					PSS Platinum Silver Smooth	SP10K 10kA Surge Protection ³
					WHT White Matte Textured	LMB Less Mounting Bracket
					WHS White Gloss Smooth	
					VGT Verde Green Textured	
					Color Option	
					CC Custom Colors	

finish to be
selected by
architect

Accessories (Order Separately)

- SRT1-WG Wire Guard
- SRT-MB Mounting bracket for pre-installation
- SRT1-BS-XXX Bird deterrent shroud for SRT1 version, not available with uplight
- SCP-REMOTE Remote control for SCP option; order at least on per project to program and control
- CLEDSJK Whiteway stem and junction box

Control Options

NX Standalone³

NXWS-12F NX hubbNET Wireless Enabled Integral NXSM2P-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming

Sensor Controls³

SCP-8F Remote control programmable line voltage sensor (8-12' recommended mounting height)⁴
SCP-20F Remote control programmable line voltage sensor (12-20' recommended mounting height)⁴

Notes:

- 1 Must specify voltage
- 2 Standard wire lead length 24"
- 3 SP10K, NX and SCP not available with uplight
- 4 120V or 277V only

PERFORMANCE DATA

Nominal Watts	Nominal Lumens	Distribution	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
15	2500	5C	2470	146.61	1	0	1	2459	145.91	1	0	1	2364	140.30	1	0	1
		5QW	2378	141.15	1	0	1	2367	140.48	1	0	1	2276	135.07	1	0	1
20	3000	5C	3093	136.86	1	0	1	3078	136.21	1	0	1	2960	130.97	1	0	1
		5QW	2974	131.60	1	0	1	2960	130.97	1	0	1	2846	125.93	1	0	1
35	4500	5C	4757	131.05	2	0	1	4734	130.42	2	0	1	4552	125.41	2	0	1
		5QW	4574	126.01	2	0	1	4552	125.41	2	0	1	4377	120.58	2	0	1
55	6500	5C	6814	127.13	2	0	1	6782	126.52	2	0	1	6521	121.66	2	0	1
		5QW	6552	122.24	3	0	1	6521	121.66	3	0	1	6270	116.98	3	0	1

ELECTRICAL DATA

Nominal Watts	System Watts	Line Voltage		AMPS AC				Dimming Range	Absolute Voltage Range on 0-10V (+)	
		VAC	HZ	120	208	240	277		VAC	HZ
15	16.9	120-277	50/60	0.14	0.08	0.07	0.06	10% to 100%	0V	10V
20	21.6	120-277	50/60	0.18	0.10	0.09	0.08	10% to 100%	0V	10V
35	34.6	120-277	50/61	0.29	0.17	0.14	0.12	10% to 100%	0V	10V
55	54.9	120-277	50/62	0.46	0.26	0.23	0.20	10% to 100%	0V	10V

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L ₇₀ (Hours)
25°C / 77°F	1.00	0.98	0.96	0.95	0.89	278,000
40°C / 104°F	0.99	0.98	0.96	0.94	0.88	264,000

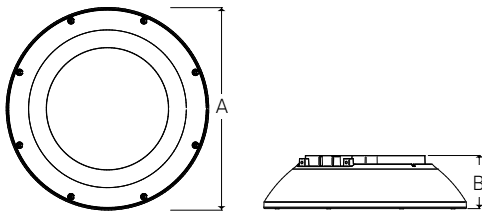
LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

SRT LUMEN MULTIPLIER CHART

SRT Lumen Multiplier		
CCT	70 CRI	80 CRI
3000K	0.957	0.85
3500K	X	0.91
4000K	0.995	0.95
5000K	1	0.95

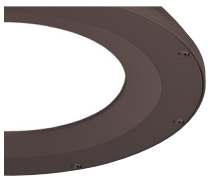
DIMENSIONS



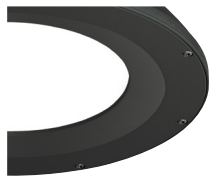
A	B	Weight
12" (304mm)	3.1" (78mm)	8lbs (3.6kg)

ADDITIONAL INFORMATION

FINISH OPTIONS



DBT Dark Bronze Textured



BLT Black Textured



PSS Platinum Silver Smooth



GYS Gray Smooth



WHT White Textured



GTT Graphite Textured



Wire Guard

An optional wire guard can be specified at the factory or as an accessory for field installation.



Bird Deterrent

An optional bird shroud deterrent can be specified at the factory or as an accessory for field installation.

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ADDITIONAL INFORMATION (CONT'D)

MOUNTING



Surface Mount

Mounting plate with "quick mount" hanger for one person simple installation.



Pendant Mount

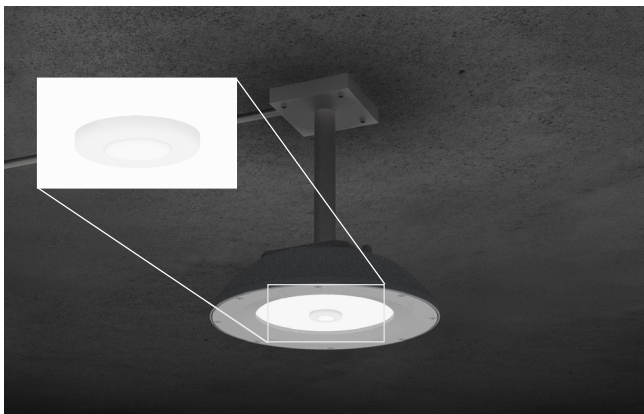
Standard 3/4" threaded entry for pendant applications. Pendant available as accessory



CLEDSJK

Whiteway stem and junction box

CONTROLS



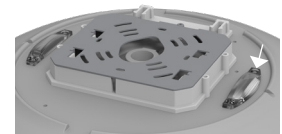
Standalone Controls

Optional passive infrared sensors are available for basic occupancy and daylight sensing. Programmable via remote or Bluetooth® phone app.

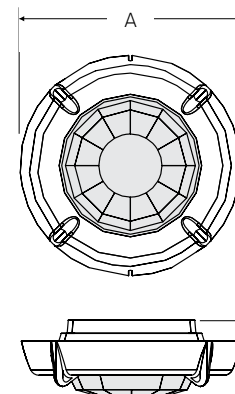
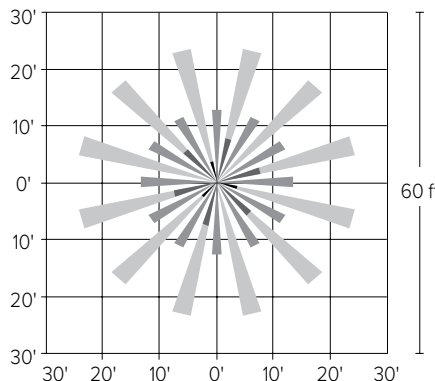
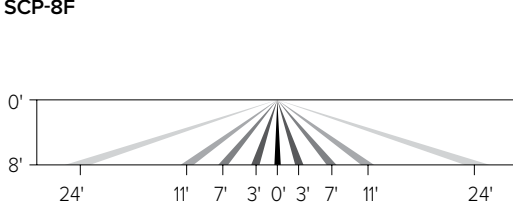


Uplight

Optional uplight module provides 800 lumens of indirect illumination for improved visual quality while eliminating cave effect.



SCP-8F



A	B
2.3" (59mm)	.8" (20mm)

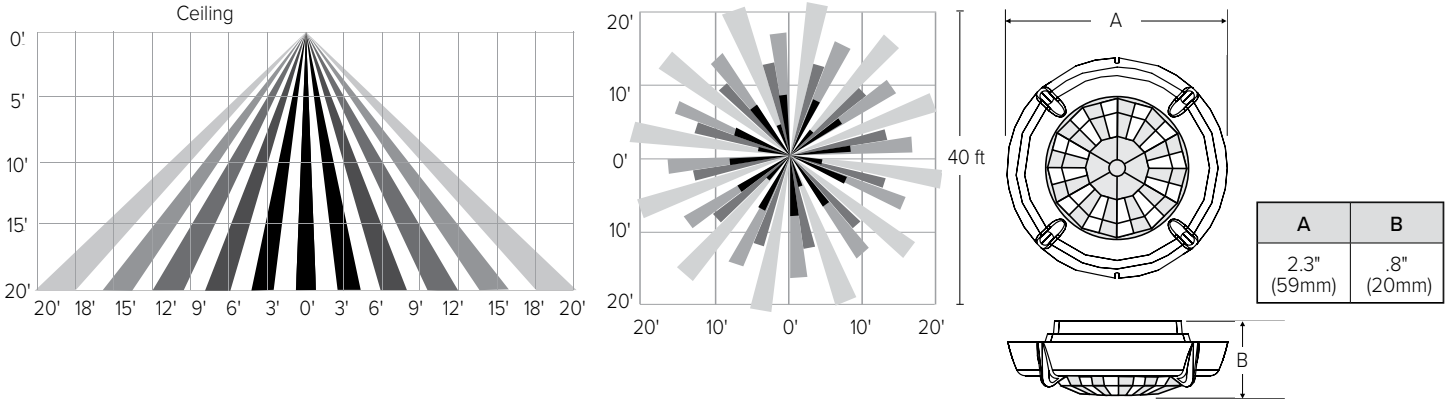
SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

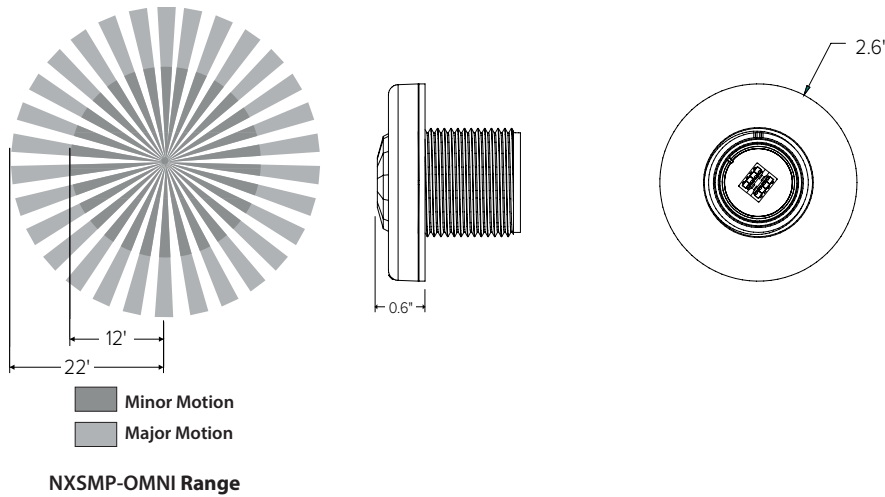
ADDITIONAL INFORMATION (CONT'D)

CONTROLS (CONT'D)

SCP-20F



NXOS12F



Zachary Maia

From: Zachary Maia
Sent: Monday, February 06, 2023 1:02 PM
To: Zachary Maia
Subject: FW: Rec Center

From: happy2bstitchin@aol.com <happy2bstitchin@aol.com>
Sent: Sunday, February 5, 2023 3:28 PM
To: Amanda Clayton <AClayton@colchestervt.gov>
Subject:

*****Warning: This email came from an outside source. It is not internal Town of Colchester email.*****

I support the submittal of the attached site plan permitting process. However, I do feel there should be further discussion on what the town can do for us on buffering us from the increased lights and sounds from traffic. There also needs to be discussion on how to protect us against pedestrians crossing our property as a short cut to the recreational center.

If this project moves forward, what will our new address be?

Zachary Maia

From: Zachary Maia
Sent: Monday, February 06, 2023 1:04 PM
To: Zachary Maia
Subject: FW: Proposed Recreation Center

From: Allen Dacres <amdacres@ymail.com>
Sent: Monday, February 06, 2023 12:03 PM
To: Amanda Clayton <AClayton@colchestervt.gov>; David Burke <dburke@olearyburke.com>; Bryan Currier <bcurrier@olearyburke.com>; Glen Cuttitta <GCuttitta@colchestervt.gov>; Greg Dixon <greg.dixon@krebssandlansing.com>; Evan Moreau <evan.moreau@krebssandlansing.com>; Zachary Maia <ZMaia@colchestervt.gov>; happy2bstitchin@aol.com
Subject: Re: Proposed Recreation Center

*****Warning: This email came from an outside source. It is not internal Town of Colchester email.*****

Amanda, I'm fine with moving forward with this project per conversations and emails;) I'm even voting yes for the project, I'm thinking 😊 my whole family would benefit from this new center!!:) 🙌

Thank you,
Allen

[Sent from Yahoo Mail for iPhone](#)