



City of Waukesha
201 Delafield Street
Waukesha, WI 53188
Tel: 262.542.3700
waukesha-wi.gov

City of Waukesha Cover Sheet

Committee: Plan Commission	Meeting Date: 10/22/2025
ID Number: PC25-0156	Ordinance/Resolution Number (if applicable): N/A
Name of Submitter: Doug Koehler	Target Next Board/Council Meeting Date: 11/18/2025
Agenda Item Title: Extra-territorial Certified Survey Map, 21165 E. Moreland Blvd., Oscar's – A request for approval of a 2-lot CSM on approximately 1.6711 acres of land located in the Town of Brookfield.	

Issue Before the Board/Council: Proposed two lot Certified Survey Map in the Town of Brookfield, for Extra-Territorial review and approval.
Options & Alternatives: • Approve the CSM and allow the development to go forward. • Deny the CSM, making it very difficult or impossible for the property owners to proceed with their plans.

Additional Details: The applicants would like to reconstruct the Oscar's Restaurant at 21165 E Moreland Blvd., which was destroyed by fire in November of 2024. As part of the application, they have prepared a Certified Survey Map to clean up the lot lines of the two parcels the restaurant sits on.

The larger parcel, which currently has an area of approximately 38,000 square feet, contains the restaurant, most of the parking lot, and vehicular access from Swenson Drive. The smaller parcel, currently 34,857 square feet in area, contains a portion of the parking lot and a lawn area with picnic tables. A small triangular section of the larger parcel cuts out a portion of the smaller parcel. Both properties have the same owners.

The proposed Certified Survey Map will shift the shared lot line to the east, enlarging the larger parcel and reducing the area of the smaller parcel, and it will also remove the triangular cut out section, so both parcels will be roughly rectangular. Lot 1 will have an area of 41,084 square feet. Lot 2 will have an area of 31,708 square feet. This will allow for a wider drive through area around the rebuilt restaurant.

Lot 2, which will remain undeveloped, will have a width of 120 feet. The applicants hope to eventually sell the east property for development, with some shared access.

The City reviews Extra-Territorial land divisions in surrounding unincorporated areas, now limited to portions of the Town of Brookfield, the Town of Delafield, and the Town of Genessee.

What is the Strategic Plan Priority this item relates to:

People-Centered Development

What impact will this item have on the Strategic Plan Priority?

This proposal will allow the applicant to use their property, in a neighboring community, in a way that they would like to. Oscar's restaurant is a longstanding business, which serves residents of the Town of Brookfield, the City of Waukesha, and other communities as well. The proposed redevelopment will also provide options for redevelopment of the neighboring lot.

Financial Remarks: No direct financial impact to the City.

Suggested Motion: "I move to approve the Extra-Territorial Certified Survey Map for Oscar's Restaurant at 21165 E. Moreland Blvd., with all Engineering Department comments to be addressed."



City of Waukesha
201 Delafield Street
Waukesha, WI 53188
Tel: 262.542.3700
waukesha-wi.gov

--

Reviewed By:

Finance Director Joseph P. Ciorro	Date Reviewed
City Attorney Brian Running	Date Reviewed
City Administrator Anthony W. Brown	Date Reviewed

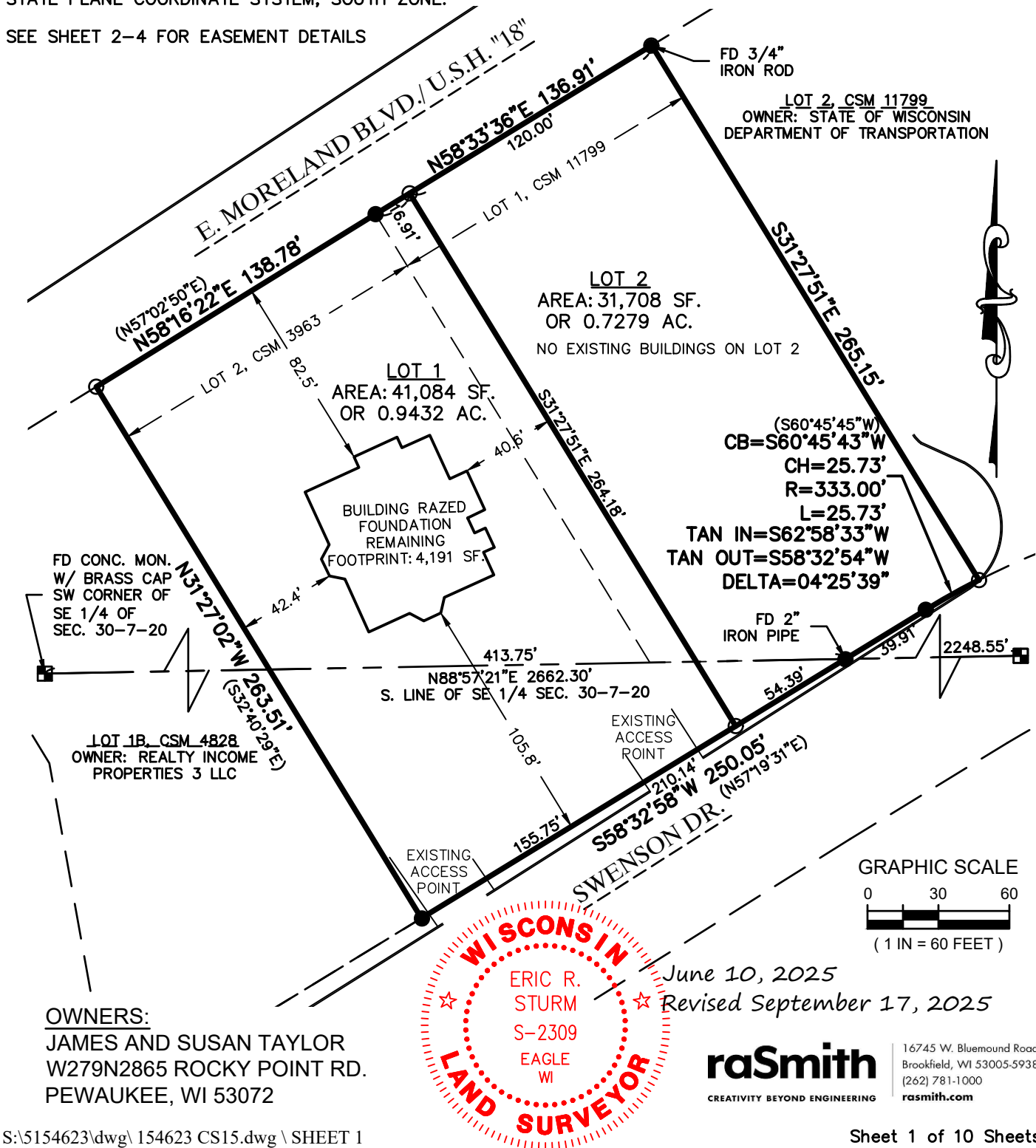
CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

- ▲ INDICATES FOUND MAG NAIL
- INDICATES FOUND 1" IRON PIPE
- INDICATES SET 1.315" O.D. IRON PIPE AT LEAST 18" IN LENGTH, 1.68 LBS. PER LINEAL FOOT.

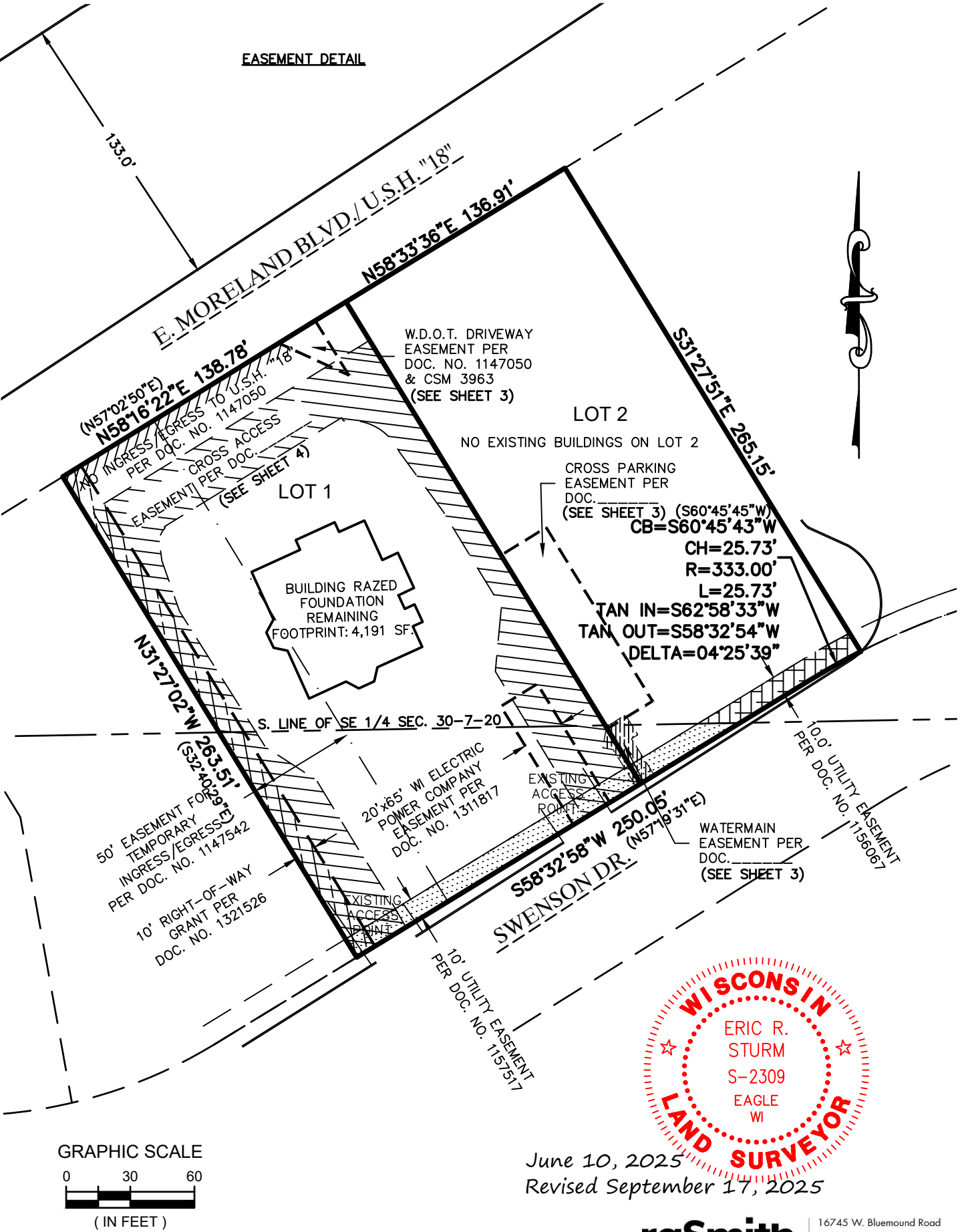
ALL DIMENSIONS SHOWN ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT.
ALL BEARINGS ARE REFERENCED TO THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 30, T 7 N, R 20 E, WHICH BEARS NORTH 88°57'21" EAST. WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.

SEE SHEET 2-4 FOR EASEMENT DETAILS



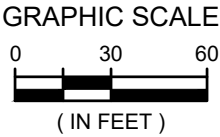
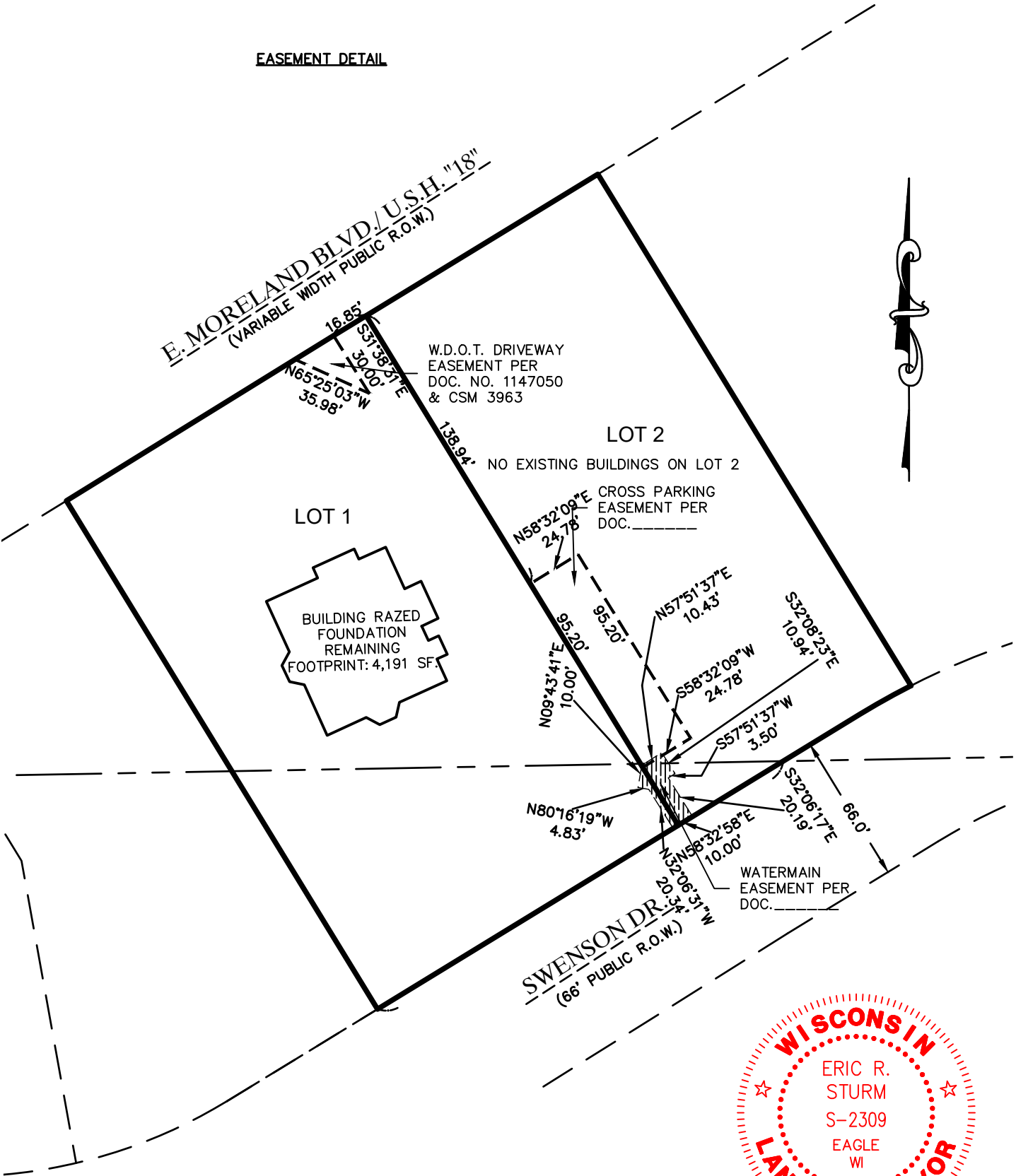
CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.



CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

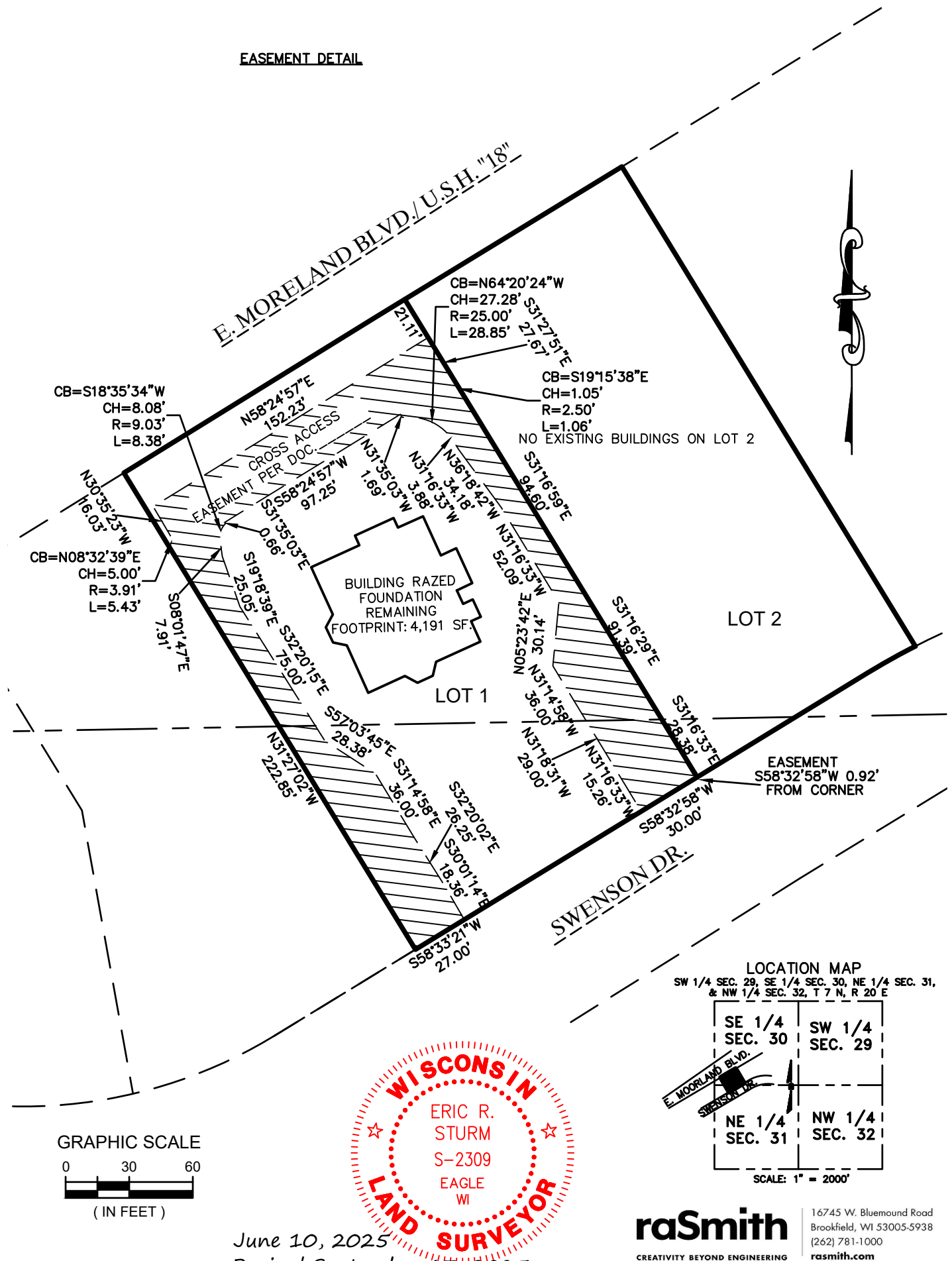


WISCONSIN
ERIC R. STURM
S-2309
EAGLE
WI
LAND SURVEYOR

June 10, 2025
Revised September 17, 2025

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.



CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN }
 :SS
WAUKESHA COUNTY }

I, ERIC R. STURM, Professional Land Surveyor, do hereby certify:

THAT I have surveyed, divided, and mapped a redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin, bounded and described as follows:

Commencing at the Southwest corner of the Southeast 1/4 of said Section 30; thence North 88°57'21" East along the South line of said Southeast 1/4 Section for a distance of 413.75 feet to the intersection with the North line of Swenson Drive, being the point of beginning; thence South 58°32'58" West along the North line of Swenson Drive 210.14 feet to the Southeast corner of Lot 1B in Certified Survey Map No. 4828; thence North 31°27'02" West along the East line of said Lot 1B, a distance of 263.51 feet to a point on the South line of East Moreland Boulevard (U.S.H. "18"); thence North 58°16'22" East along said South line 138.78 feet to a point; thence North 58°33'36" East along said South line 136.91 feet to the Northwest corner of Lot 2 in Certified Survey Map No. 11799; thence South 31°27'51" East along the West line of the aforesaid Lot 2, a distance of 265.15 feet to a point on the North line of Swenson Drive; thence Southwesterly 25.73 feet along said North line and the arc of a curve whose center lies to the Southeast, whose radius is 333.00 feet, and whose chord bears South 60°45'43" West 25.73 feet to a point; thence South 58°32'58" West continuing along said North line 39.91 feet to the point of beginning.

Said lands containing 72,792 square feet or 1.6711 acres.

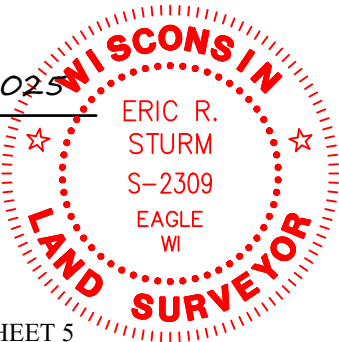
THAT I have made such survey, land division and map by the order and direction of JAMES TAYLOR and SUSAN TAYLOR, owners of said land.

THAT such map is a correct representation of all the exterior boundaries of the land surveyed and the land division thereof made.

THAT I have fully complied with the provisions of Chapter 236 of the Wisconsin Statutes and the Ordinances of the Town of Brookfield in surveying, dividing and mapping the same.

June 10, 2025
Revised September 17, 2025

Date of Fieldwork:
February 14, 2025



ERIC R. STURM,
PROFESSIONAL LAND SURVEYOR S-2309

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

OWNER'S CERTIFICATE

JAMES TAYLOR, a person as owner, certifies they have caused the land described on this map to be surveyed, divided, and mapped in accordance with the requirements of Chapter 236.34 of the Wisconsin Statutes and the Town of Brookfield.

JAMES TAYLOR, does further certify that this map is required by S.236.10 or 236.12 to be submitted to the following for approval or objection: Town of Brookfield
City of Waukesha

IN Witness Whereof, JAMES TAYLOR has caused these presents to be

signed by _____, its _____, this _____ day of _____, 2025.

JAMES TAYLOR

[illegible]

PERSONALLY came before me this day of , 2025,

_____ of the above named JAMES TAYLOR, to me known to be the person who executed the foregoing instrument, and to me known to be said person, and acknowledged that he executed the foregoing instrument.

(SEAL)

Notary Public, State of _____

My Commission Expires



June 10, 2025
Revised September 17, 2025

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rgsmith.com

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

OWNER'S CERTIFICATE

SUSAN TAYLOR, a person as owner, certifies they have caused the land described on this map to be surveyed, divided, and mapped in accordance with the requirements of Chapter 236.34 of the Wisconsin Statutes and the Town of Brookfield.

SUSAN TAYLOR, does further certify that this map is required by S.236.10 or 236.12 to be submitted to the following for approval or objection: Town of Brookfield
City of Waukesha

IN Witness Whereof, SUSAN TAYLOR has caused these presents to be

signed by _____, its _____, this _____ day of _____, 2025.

SUSAN TAYLOR

[illegible]

PERSONALLY came before me this day of , 2025,

_____ of the above named SUSAN TAYLOR, to me known to be the person who executed the foregoing instrument, and to me known to be said person, and acknowledged that she executed the foregoing instrument.

(SEAL)

Notary Public, State of _____

My Commission Expires



June 10, 2025
Revised September 17, 2025

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rgsmith.com

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

CONSENT OF CORPORATE MORTGAGEE

_____, a national banking association, duly organized and existing under
and by virtue of the laws of the State of _____, as mortgagee of the above described
land, consents to the surveying, dividing, mapping and restricting of the land described on this map and in
the surveyor's certificate, and to the certificate of the owner of said land.

Date: _____

Entity Name: _____

Signature: _____

Print Name: _____

Title: _____

STATE OF _____ }
COUNTY _____ } SS

PERSONALLY came before me this _____ day of _____, 2025,

_____, the _____ of the above named organization, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the foregoing instrument as such officer on behalf of the entity, by its authority.

(Notary Seal)

(print name)

Notary Public, State of Wisconsin

My commission expires_____



June 10, 2025

Revised September 17, 2025

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rgsmith.com

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

TOWN OF BROOKFIELD PLAN COMMISSION APPROVAL

Approved by the Plan Commission of the Town of Brookfield on this ____ day of _____, 2025

KEITH HENDERSON, Chairman

TOM HAGIE, Interim Clerk

TOWN BOARD APPROVAL

Approved by the Town Board of the Town of Brookfield on this ____ day of _____, 2025

KEITH HENDERSON, Chairman

TOM HAGIE, Interim Clerk

All conditions of the approval of the Town of Brookfield were met as of the ____ day of _____, 2025.



June 10, 2025
Revised September 17, 2025

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

CERTIFIED SURVEY MAP NO. _____

A redivision of Lot 2 of Certified Survey Map No. 3963, recorded on January 15, 1981, in the Waukesha County Register of Deeds Office in Volume 31, Page 4-7, as Document No. 1148662 and Lot 1 of Certified Survey Map No. 11799, recorded on January 4, 2019, in the Waukesha County Register of Deeds Office in Book 119, Page 9-13, as Document No. 4378007, being part of the Southwest 1/4 of the Southeast 1/4 of Section 30 and the Northwest 1/4 of the Northeast 1/4 of Section 31, Township 7 North, Range 20 East, in the Town of Brookfield, Waukesha County, Wisconsin.

CITY OF WAUKESHA EXTRA-TERRITORIAL JURISDICTION APPROVAL

Approved by the Plan Commission of the City of Waukesha on this ____ day of _____, 2025

SHAWN REILLY, Mayor

DOUG KOEHLER, Principal Planner

Approved by the Common Council of the City of Waukesha on this ____ day of _____, 2025

SHAWN REILLY, Mayor

KATIE PANELLA, Clerk



June 10, 2025
Revised September 17, 2025

THIS DOCUMENT WAS DRAFTED BY ERIC R. STURM,
PROFESSIONAL LAND SURVEYOR S-2309

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

SITE DEVELOPMENT PLANS
FOR
OSCAR'S CUSTARD
21165 EAST MORELAND BOULEVARD
WAUKESHA, WI

VICINITY MAP

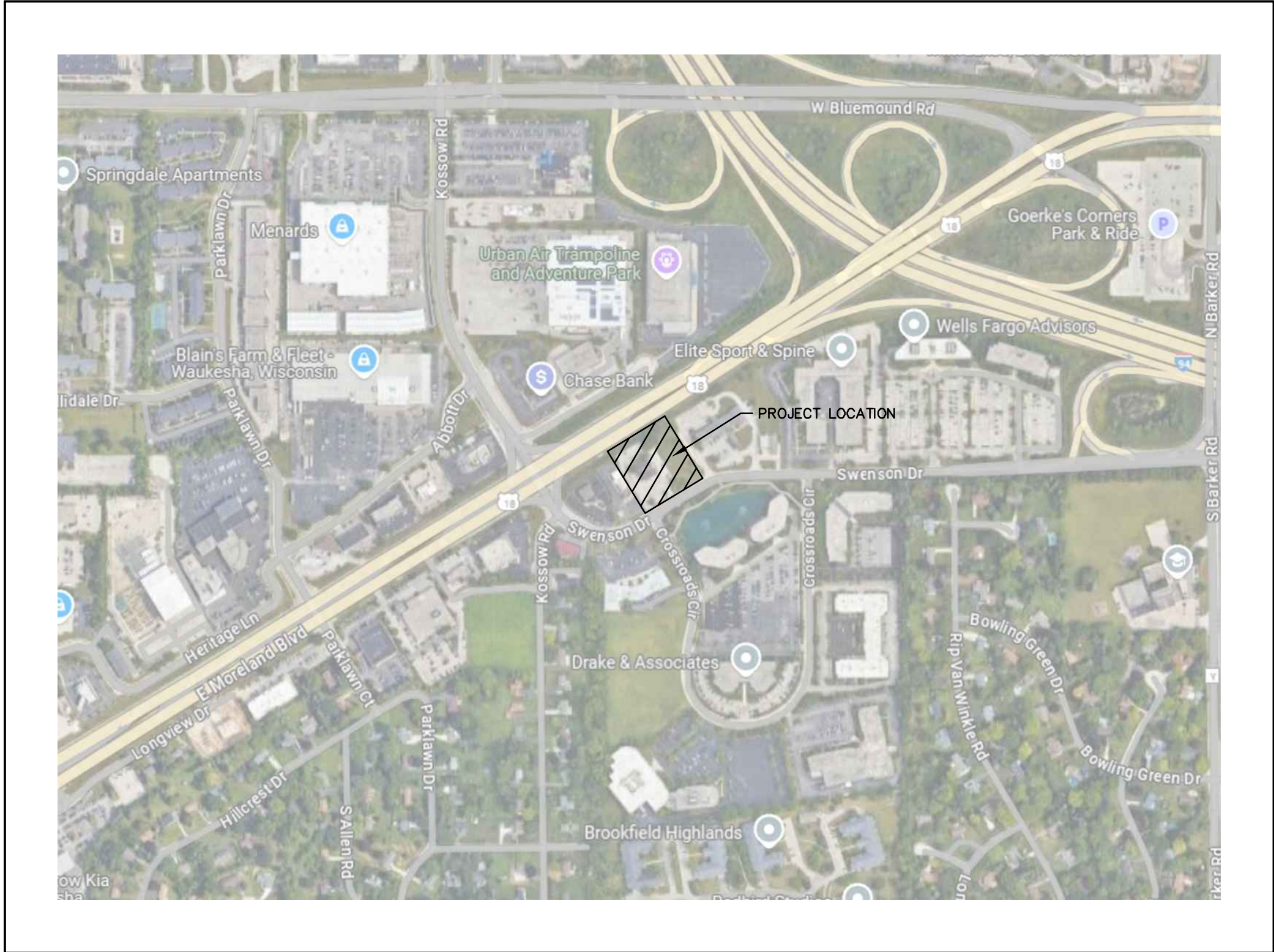
ENGINEER AND LANDSCAPE ARCHITECT:



16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

DEVELOPER / OWNER:

JAMES TAYLOR
W279N2865 ROCKY POINT RD
PEWAUKEE, WI 53072



PLAN INDEX

SHEET NO.	DESCRIPTION
C000	TITLE SHEET
---	PLAT OF SURVEY
C100	DEMOLITION & EROSION CONTROL PLAN
C200	SITE PLAN
C201	TRUCK ACCESS PLAN
C300	GRADING PLAN
C400	UTILITY PLAN
C500 - C501	DETAILS
C600	SPECIFICATIONS
L100	SITE LANDSCAPE PLAN
L200	LANDSCAPE NOTES AND DETAILS
1 OF 1	PHOTOMETRIC PLAN - BY OTHERS



R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

PLAN DATE: 06/02/2025

REVISIONS	ISSUE DATE	SHEET NO.'S	ISSUED FOR:
1	7/23/2025	C400 & L100	REVISION 1

DESCRIPTION

DATE

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

OSCAR'S FROZEN CUSTARD
TOWN OF BROOKFIELD

TITLE SHEET



© COPYRIGHT 2025
R.A. Smith, Inc.
DATE: 06/02/2025
SCALE: N.T.S.
JOB NO. 3240290
PROJECT MANAGER:
CHRISTOPHER WHITE, P.E.
DESIGNED BY: CBW
CHECKED BY: MAF

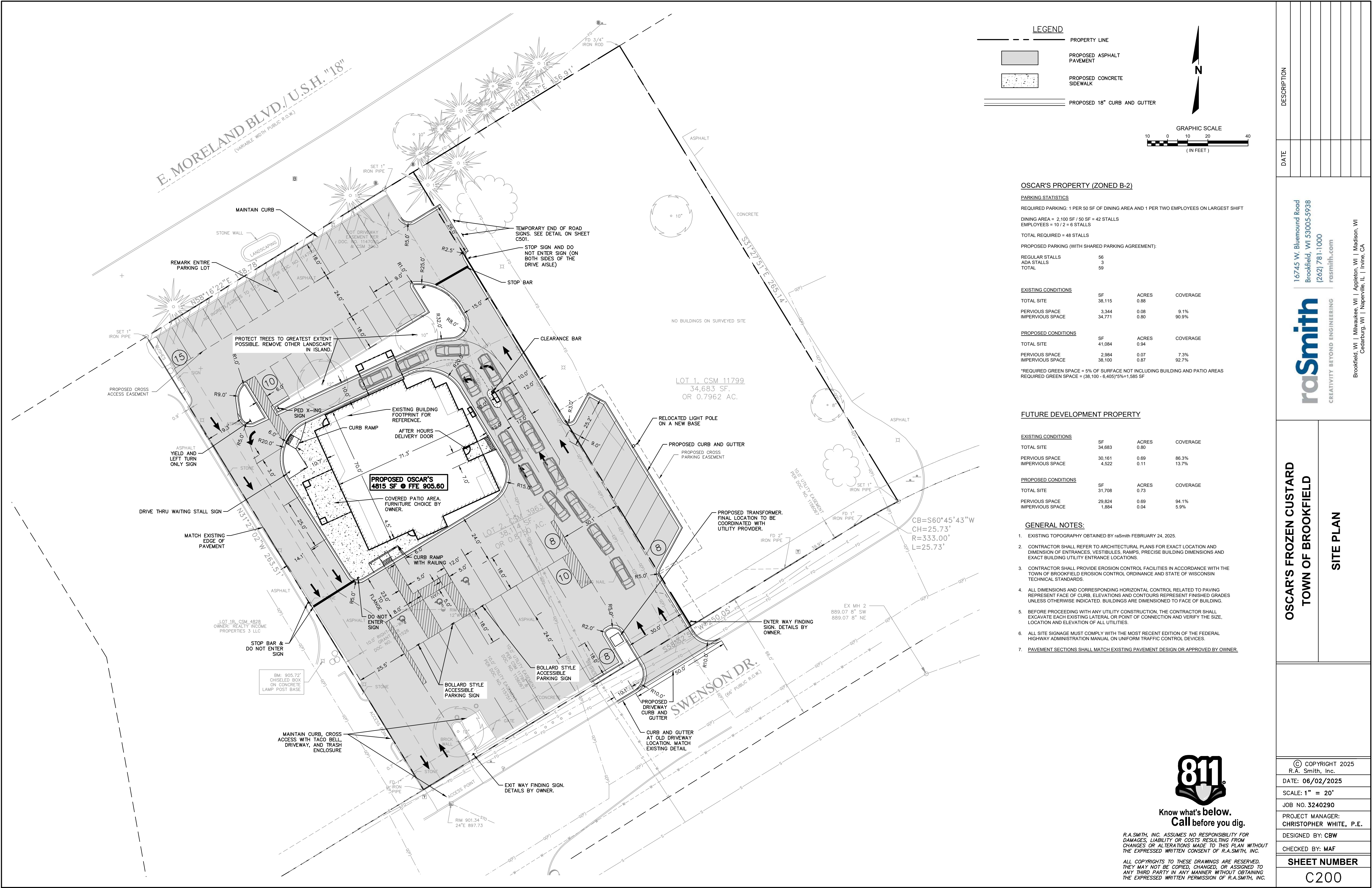
SHEET NUMBER

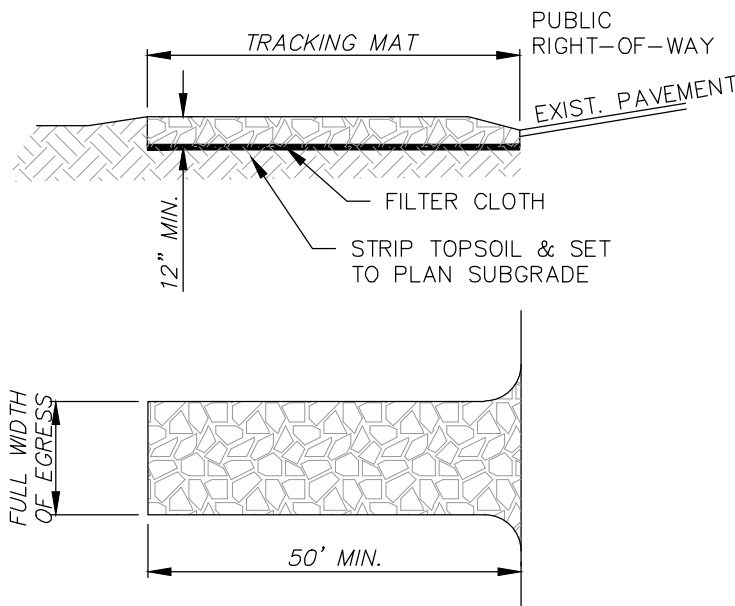
C000

PLAT OF SURVEY

W/ TOPOGRAPHIC DATA & UTILITIES

- SHEET 1 OF 2





CONSIDERATIONS:

1. TIRE WASHING AND TRACKING PAD TO CONFORM TO WDNr CONSERVATION PRACTICE STANDARD 1057.
2. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHOULD MAINTAIN A SLOW CONSTANT SPEED.
3. THE BEST APPROACH TO PREVENTING OFF-SITE TRACKING IS TO RESTRICT VEHICLES TO STABILIZED AREAS.
4. IT IS ALWAYS PREFERABLE TO PREVENT SEDIMENT FROM BEING DEPOSITED UPON THE ROAD THAN CLEANING THE ROAD LATER. SEDIMENT ON A ROAD CAN CREATE A SAFETY HAZARD AS WELL AS A POLLUTION PROBLEM.
5. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.

NOTES:

A. TRACKING PAD:

1. THE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
2. THE AGGREGATE FOR THE TRACKING PAD SHALL BE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION OF TABLE 1 OF THE WISCONSIN DNR TECHNICAL STANDARD 1057. WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATION, SECTION 312, SELECT CRUSHED MATERIAL.
3. THE AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PRACTICE, STONE TRACKING PADS SHALL BE UNDERLAIN WITH A WISDOT TYPE R GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
4. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT. THE TRACKING PAD SHALL BE A MINIMUM OF 50 FEET LONG.
5. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM TRACKING PADS OR CONVEYED UNDER AND AROUND THEM BY USING A VARIETY OF PRACTICES, SUCH AS CULVERTS, WATER BARS, OR OTHER SIMILAR PRACTICES.

B. TIRE WASHING:

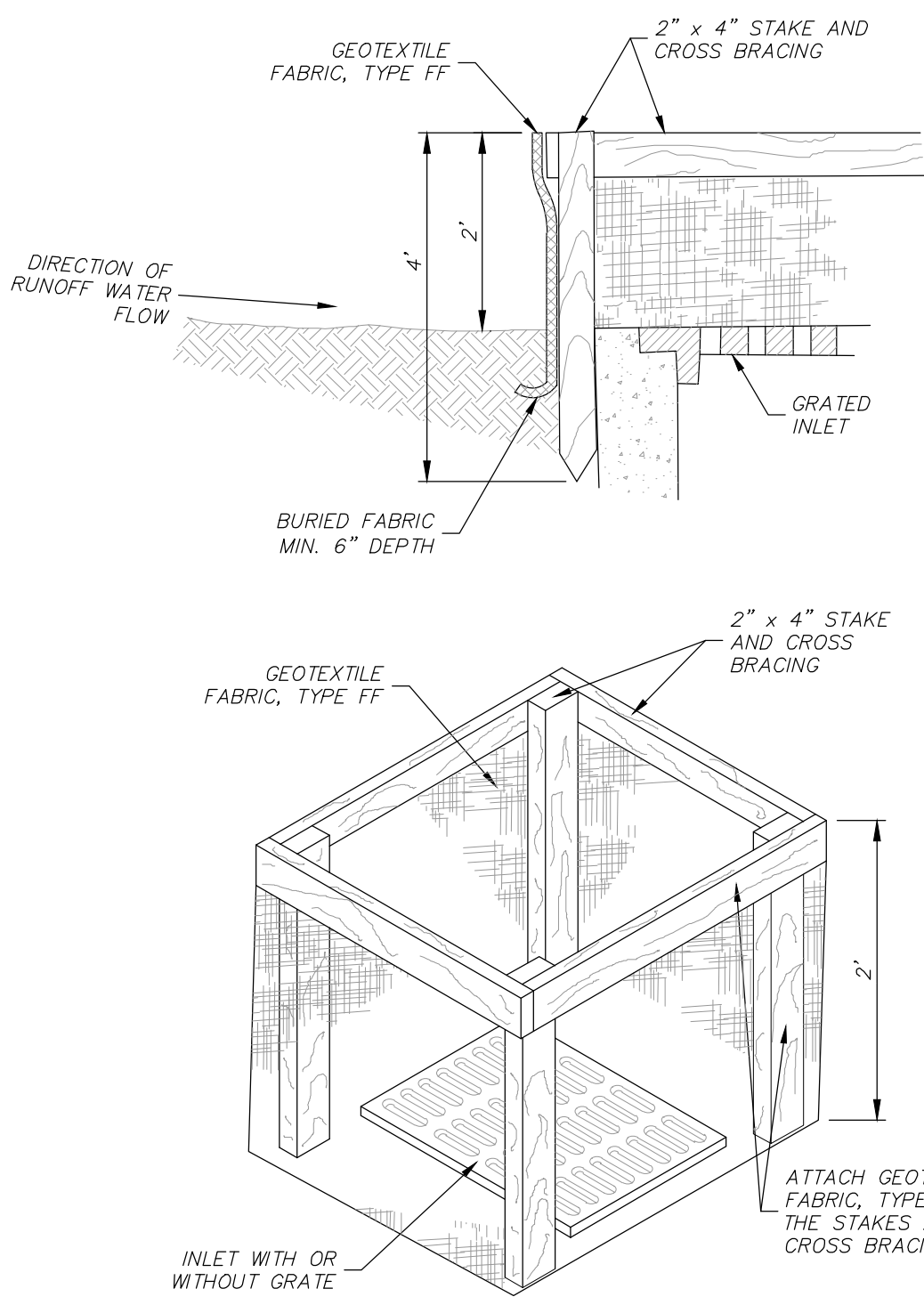
IF CONDITIONS ON THE SITE ARE SUCH THAT THE SEDIMENT IS NOT REMOVED FROM VEHICLE TIRES BY THE TRACKING PAD, THEN TIRES SHALL BE WASHED UTILIZING PRESSURIZED WATER BEFORE ENTERING A PUBLIC ROAD.

1. THE WASHING STATION SHALL BE LOCATED ON-SITE ON AN AREA THAT IS STABILIZED AND DRAINS INTO A SUITABLE SEDIMENT TRAPPING OR SETTLING DEVICE.
2. THE WASH RACK SHALL CONSIST OF A HEAVY GRATING OVER A LOWERED AREA. THE RACK SHALL BE STRONG ENOUGH TO SUPPORT THE VEHICLES THAT WILL CROSS IT.

C. MAINTENANCE

1. ROCKS LODGED BETWEEN THE TIRES IF DUAL WHEEL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE CONSTRUCTION SITE.
2. TRACKING PADS AND TIRE WASHING STATIONS SHALL, AT AT MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
3. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
4. A MINIMUM 12-INCH THICK PAD SHALL BE MAINTAINED.

STONE TRACKING PAD AND TIRE WASHING
(NOT TO SCALE)



INLET PROTECTION, TYPE A

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4, THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
4. SIDE FLAPS SHALL BE A MAXIMUM OF 2' LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.

GENERAL NOTES:

INLET PROTECTION DEVICES SHALL CONFORM TO WDNr CONSERVATION PRACTICE STANDARD 1060 AND BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WISDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED IF ALLOWED BY ENGINEER.

TYPE A IS TO BE USED PRIOR TO PAVING AND INSTALLATION OF CURB AND GUTTER, AND TYPES B, C, AND D ARE TO BE USED AFTER PAVING IS PLACED.

TYPE A SHALL BE USED AROUND INLETS AND UNPAVED AREAS UNTIL PERMANENT STABILIZATION METHODS HAVE BEEN ESTABLISHED.

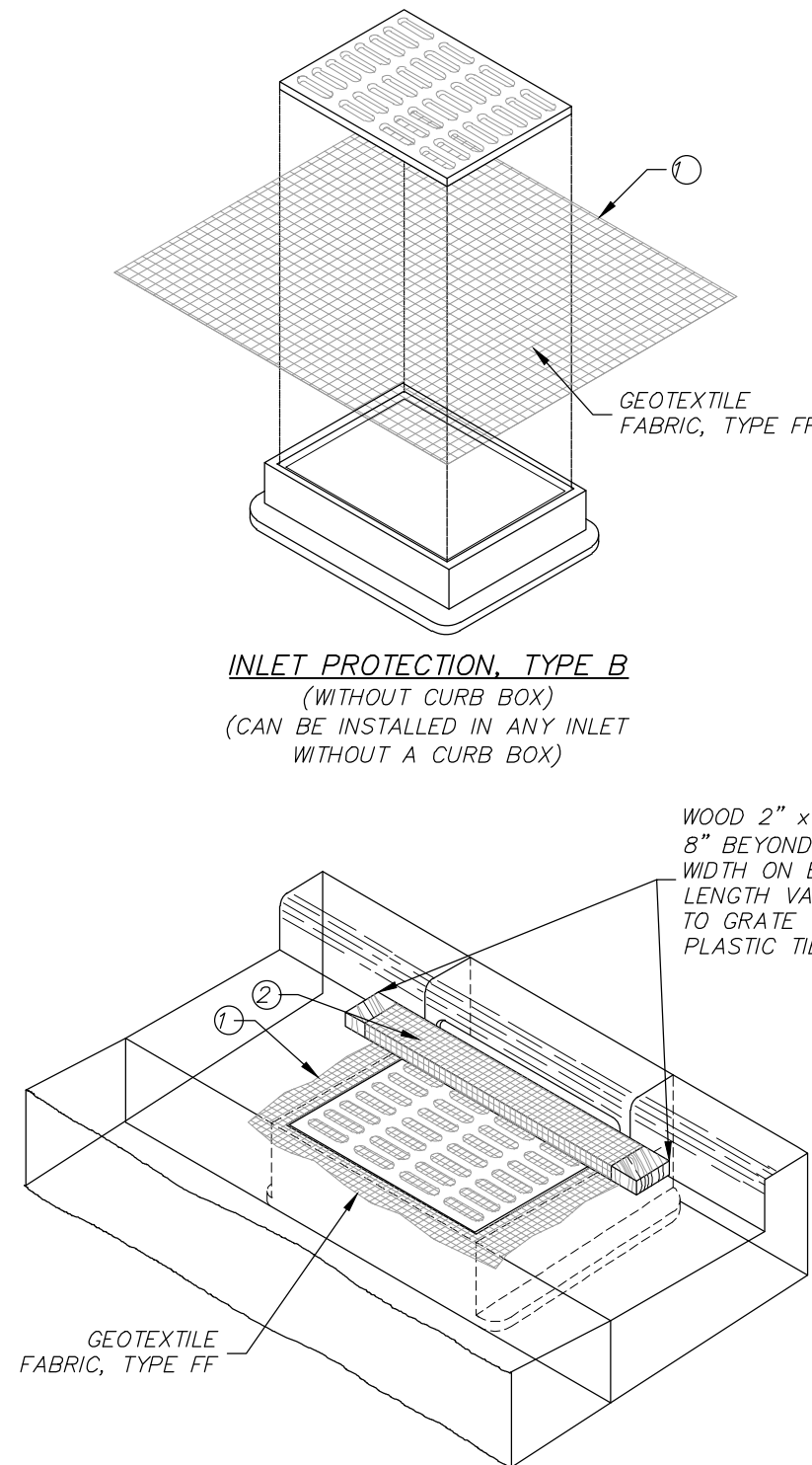
TYPE B SHALL BE USED AFTER THE CASTING AND GRATE ARE IN PLACE, ON INLETS WITHOUT A CURB BOX WHEN TYPE D INLET DEVICES CANNOT BE USED.

TYPE C SHALL BE USED AFTER THE CASTING AND GRATE ARE IN PLACE, ON STREET INLETS WITH CURB HEADS.

TYPE D SHALL BE USED IN AREAS WHERE OTHER TYPES OF INLET PROTECTION ARE INCOMPATIBLE WITH ROADWAY AND TRAFFIC CONDITIONS (I.E. POSSIBLE SAFETY HAZARD IF PONDING OCCURS), OR WHERE MORE EFFECTIVE INLET FILTERING IS NEEDED.

TAPER BOTTOM OF BAG TO MAINTAIN 3" OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.

GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.



INLET PROTECTION, TYPE C
(WITH CURB BOX)

INSTALLATION NOTES:

TYPE B & C:
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

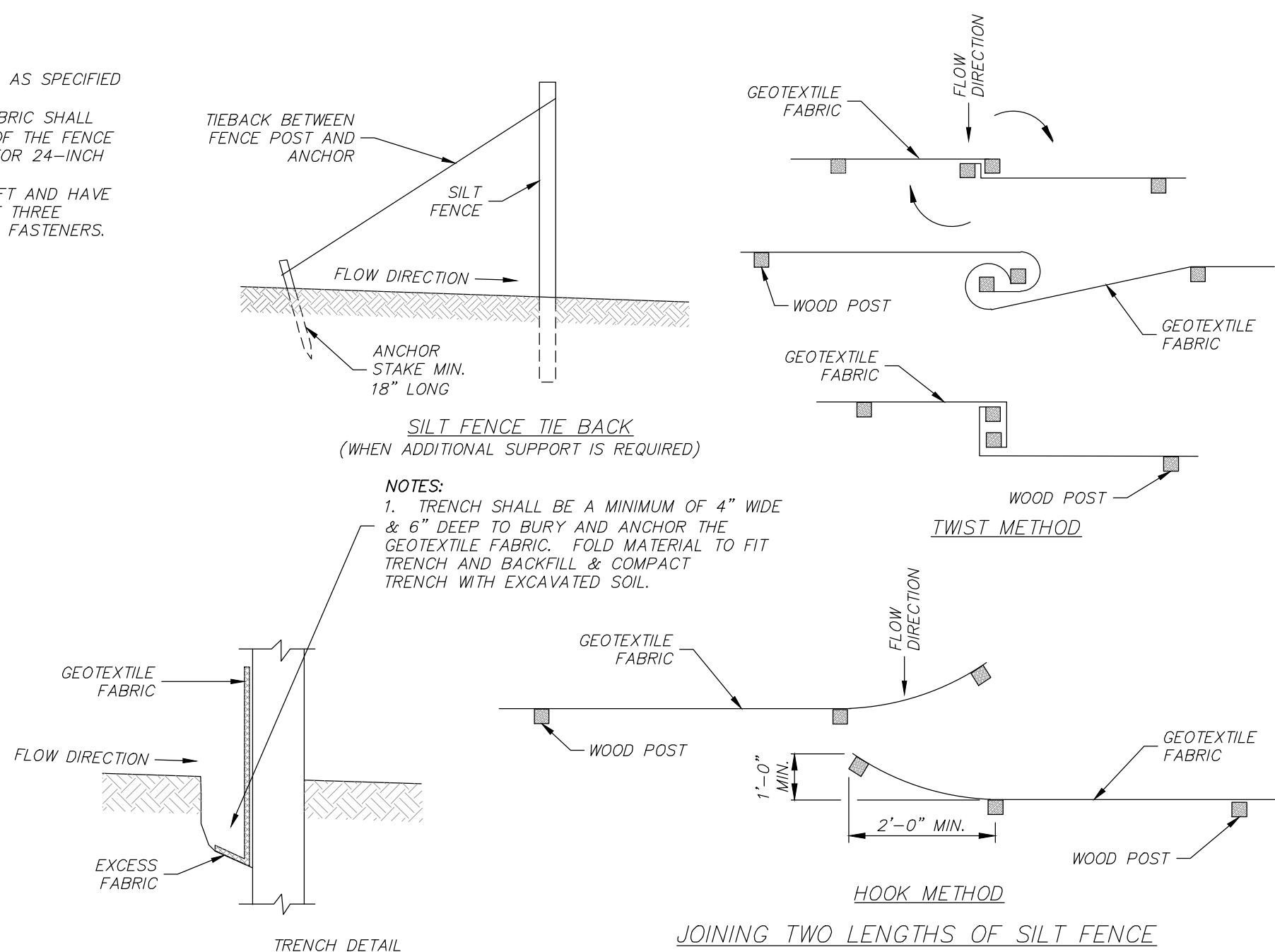
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP. HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D:
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CATCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4' FROM THE BOTTOM OF THE BAG.

STORM DRAIN INLET PROTECTION
(NOT TO SCALE)



SILT FENCE
(NOT TO SCALE)

NOTES:

1. SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WDNr CONSERVATION STANDARD 1056
2. SILT FENCE SHALL BE PLACED ON THE CONTOUR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
3. WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW:

SLOPE	FENCE SPACING
< 2%	100 FEET
2 TO 5%	75 FEET
5 TO 10%	50 FEET
10 TO 33%	25 FEET
> 33%	20 FEET

4. INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
5. A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
6. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4-INCH TRENCH WIDE BY 6-INCH DEEP TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED WIDER THAN NECESSARY FOR PROPER INSTALLATION.
7. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
 - A) TWIST METHOD--OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
 - B) HOOK METHOD--HOOK THE END OF EACH SILT FENCE LENGTH.
8. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
9. DAMAGED OR DECOMPOSED FENCES, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
10. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE.
11. SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.

MAINTENANCE:

REMOVE INLET PROTECTION DEVICES ONCE THE CONTRIBUTING DRAINAGE AREA IS STABILIZED WITH APPROPRIATE VEGETATION OR IMPERVIOUS SURFACE.

INLET PROTECTION SHALL BE, AT A MINIMUM, INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.

FOR TYPE A, B OR C INLET PROTECTION, SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO 1/2 THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING AS DESIGNED.

FOR TYPE D INLET PROTECTION (INCLUDING D-M AND D-HR), REMOVE SEDIMENT WHEN SEDIMENT ACCUMULATES TO WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLES, OR WHEN STANDING WATER REMAINS WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLES 24 HOURS AFTER A RUNOFF EVENT. HOLES IN THE TYPE FF FABRIC MAY BE REPAIRED BY STITCHING IF LESS THAN 2" IN LENGTH, BUT THE FABRIC SHOULD BE REPLACED IF THE HOLES ARE GREATER THAN 2" IN LENGTH IN THE TYPE FF FABRIC OR IF THERE ARE ANY HOLES IN THE TYPE HR FABRIC. THE FILTER MUST ALSO BE REPLACED IF THE FLAP POCKETS SUSTAIN DAMAGE THAT COMPROMISES FILTER INTEGRITY OR THE ABILITY TO PERFORM MAINTENANCE.

REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLET AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

OSCAR'S FROZEN CUSTARD
TOWN OF BROOKFIELD

EROSION CONTROL DETAILS

DESCRIPTION

DATE

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

raSmith
CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Oscarburg, WI | Naperville, IL | Irvine, CA

© COPYRIGHT 2025

R.A. Smith, Inc.

DATE: 06/02/2025

SCALE: N.T.S.

JOB NO. 3240290

PROJECT MANAGER:
CHRISTOPHER WHITE, P.E.

DESIGNED BY: CBW

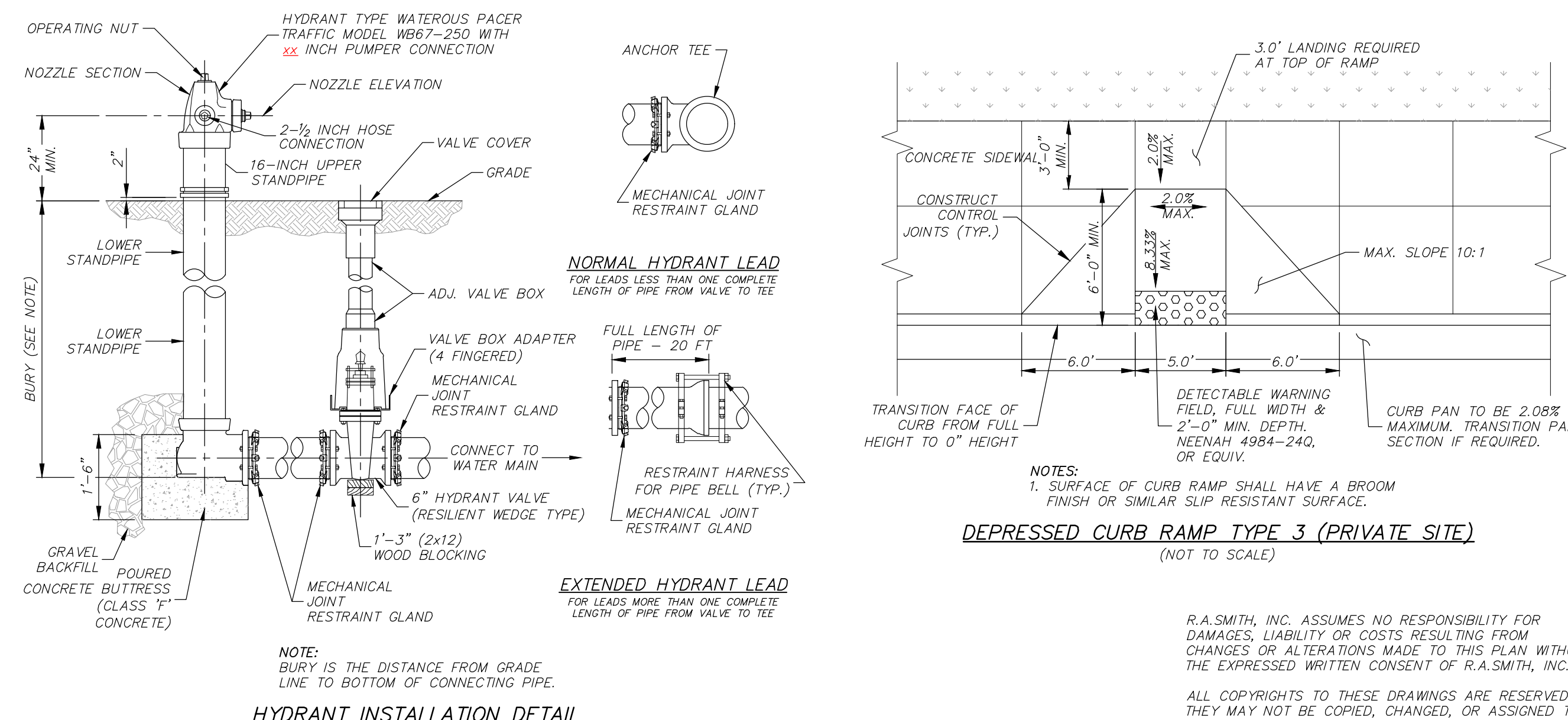
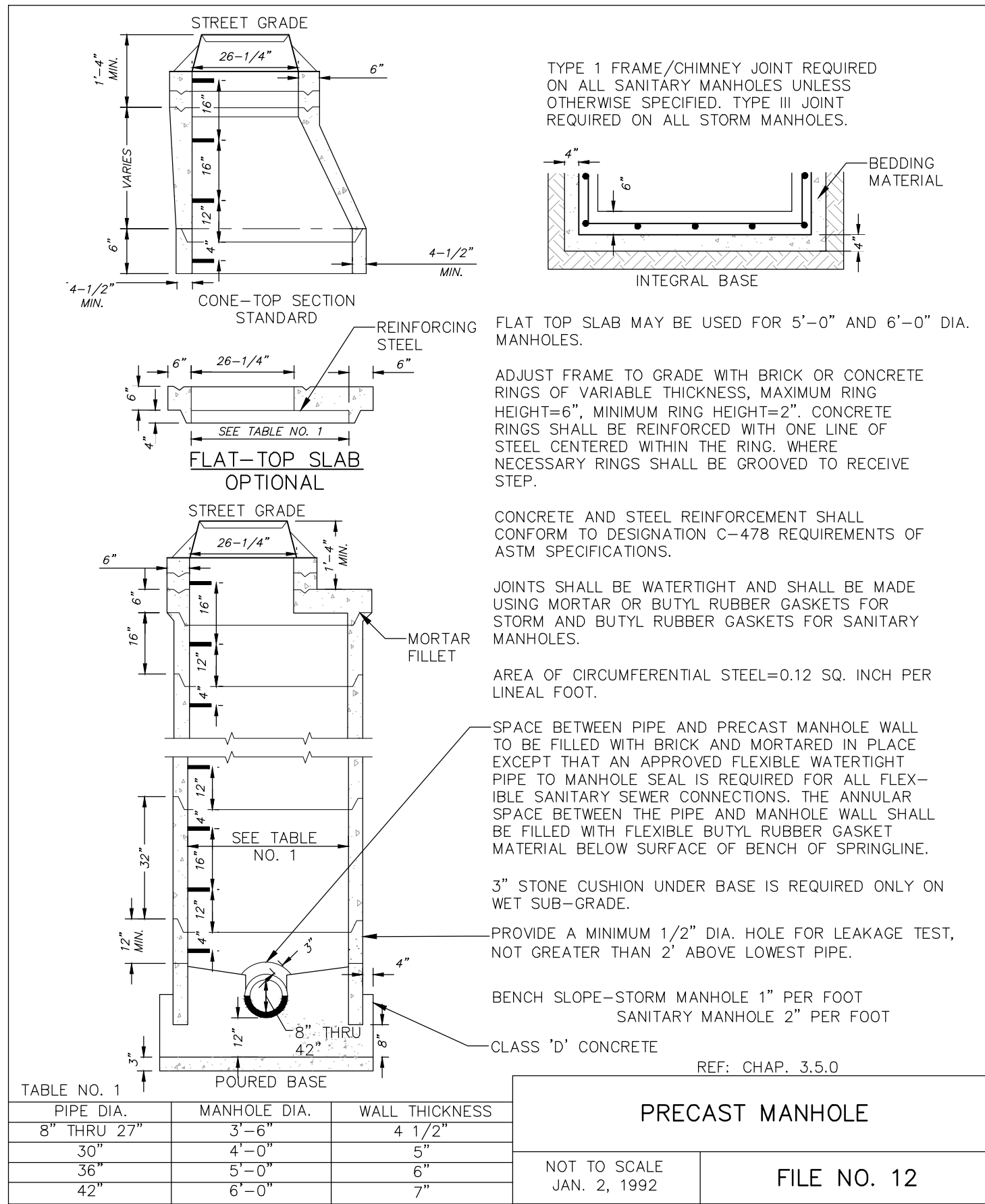
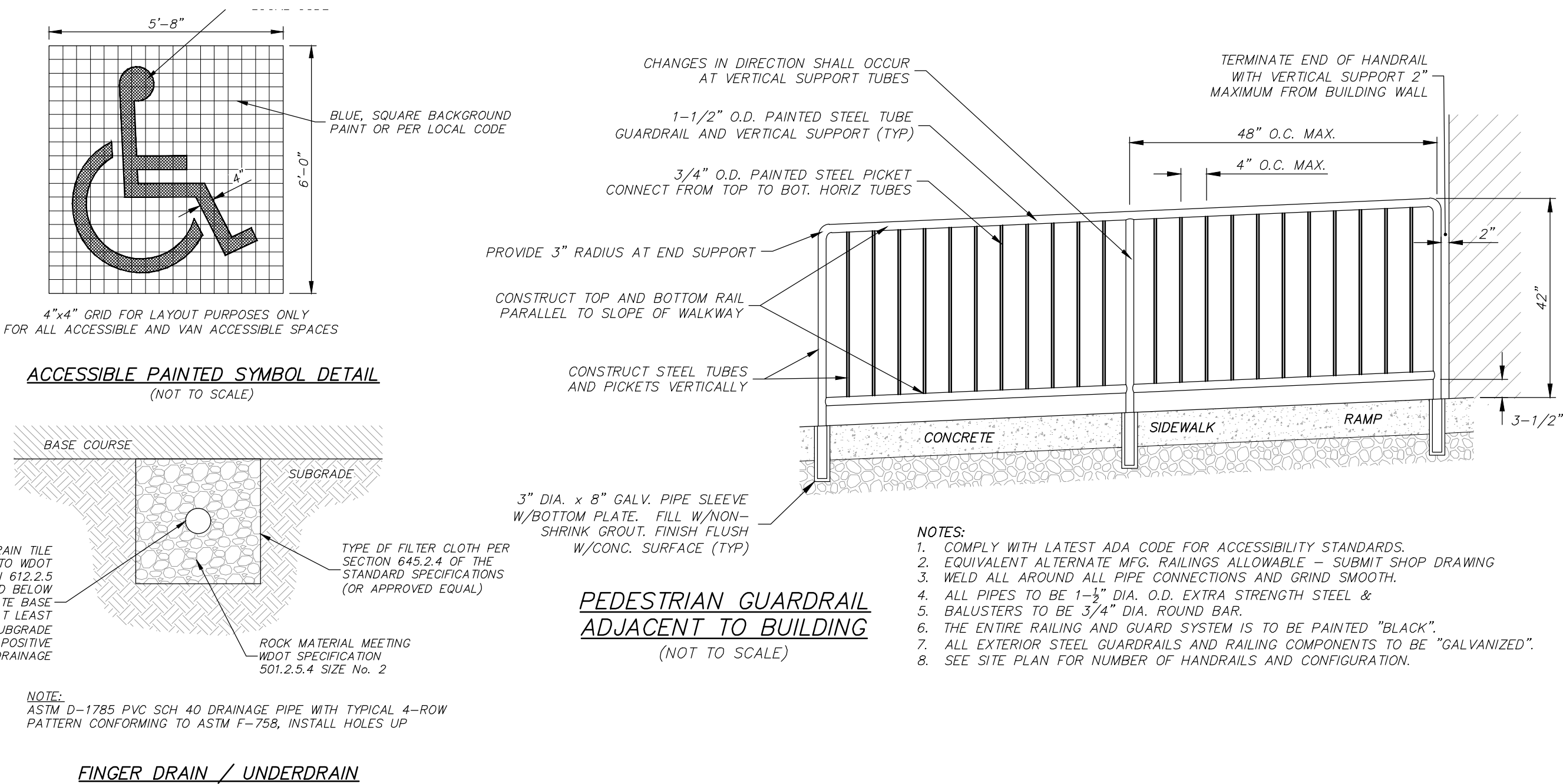
CHECKED BY: MAF

SHEET NUMBER

C500

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

[illegible]

DIVISION 1 – GENERAL REQUIREMENTS

01 41 00 – REGULATORY REQUIREMENTS

1. THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED:
- a. WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) STORM WATER TECHNICAL STANDARDS
 - b. WISCONSIN EROSION CONTROL PRODUCT ACCEPTABILITY LIST
 - c. STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (SSSWCW)
 - d. WISCONSIN ADMINISTRATIVE CODE, SECTION SPS 381-387
 - e. WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION
 - f. WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) APPROVED PRODUCT LISTS (APL)
 - g. FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - h. WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD)
 - i. UNITED STATES DEPARTMENT OF JUSTICE ADA STANDARDS
 - j. UNITED STATES DEPARTMENT OF TRANSPORTATION ADA STANDARDS FOR TRANSPORTATION FACILITIES
 - k. MUNICIPALITY DEVELOPMENT STANDARDS
 - l. COUNTY DEVELOPMENT STANDARDS
2. THE OWNER, ENGINEER AND MUNICIPALITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS AND FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
5. SHOP DRAWINGS AND/OR MANUFACTURER'S PRODUCT DATA SUBMITTALS ARE REQUIRED ONLY IF THE PRODUCT OR METHOD OF CONSTRUCTION IS DIFFERENT FROM THAT SPECIFIED OR IF REQUIRED BY THE MUNICIPAL ENGINEER.
- a. DOCUMENTS SUBMITTED FOR REVIEW SHALL HAVE THE SPECIFIC MATERIAL, PART, SIZE, ETC., HIGHLIGHTED IN SOME FASHION. EXAMPLE: A FITTING CUT SHEET HAS MULTIPLE PRESSURE RATING FOR DIFFERENT SIZE BENDS. HIGHLIGHT THE PRESSURE CLASS & SIZE TO BE USED ON PROJECT. ALL SUBMITTALS NOT BEING IDENTIFIED IN THE WORK ORDER BEING USED WILL BE REJECTED.
 - b. THE CONTRACTOR SHALL SUBMIT A PDF COPY AND AN EXPLANATION AS TO HOW THE SUBSTITUTION MEETS THE PROPOSED DESIGN (PRODUCT SPECIFICATION SHEETS WITHOUT EXPLANATION WILL NOT BE ACCEPTED) TO THE OWNER'S REPRESENTATIVE OR ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE OWNER'S APPROVAL IS GIVEN. IN PROJECT SCHEDULING CONTRACTOR SHALL ACCOUNT FOR 5 WORKING DAYS FOR SUBMITTAL REVIEW. IN THE EVENT SUCH SUBSTITUTION IS APPROVED, THE OWNER WILL REQUIRE FROM THE CONTRACTOR A CREDITED DEDUCTION FROM THE CONTRACT AMOUNT EQUAL TO ANY SAVINGS IN MATERIAL COST RESULTING FROM USE OF THE PROPOSED SUBSTITUTE.
6. THE CONTRACTOR'S RESPONSIBILITY AND SOLE RESPONSIBILITY FOR THE QUALITY OF WORK. ANY CHANGES OR ADJUSTMENTS ARE RECOMMENDED BY THE CONTRACTOR, THEY MAY BE MADE ONLY UPON WRITTEN APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- a. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, THE OWNER OR THEIR REPRESENTATIVE'S WRITTEN INSTRUCTIONS, AND THE QUALITY AND ACCEPTABILITY OF MATERIALS FURNISHED, WORK PERFORMED, AND WORKMANSHIP. INTERPRETATION OF THE PLANS AND SPECIFICATIONS BY THE OWNER OR THEIR REPRESENTATIVE SHALL DETERMINE THE AMOUNT OF WORK PERFORMED AND THE QUALITY OF THE WORK.
 - b. FAILURE OR NEGLIGENCE ON THE PART OF THE OWNER OR THEIR REPRESENTATIVE TO CONDEMN OR REJECT SUBSTANDARD OR INFERIOR WORK OR MATERIALS SHALL NOT BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR MATERIALS, IF IT BECOMES EVIDENT AT ANY TIME PRIOR TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER. NEITHER SHALL IT BE CONSTRUED AS BARRING THE OWNER, AT ANY SUBSEQUENT TIME, FROM THE RECOVERY OF DAMAGES OR OF SUCH A SUM OF MONEY AS MAY BE NEEDED TO BUILD ANEW ALL PORTIONS OF THE SUBSTANDARD OR INFERIOR WORK OR REPLACEMENT OF IMPROPER MATERIALS WHEN THE WORK IS COMPLETED.
 - c. INSPECTORS EMPLOYED BY THE OWNER SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND ALL MATERIAL FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PART OF THE WORK AND TO THE PREPARATION, FABRICATION OR MANUFACTURE OF THE MATERIALS TO BE USED. THE INSPECTOR IS NOT AUTHORIZED TO REMOVE ANY REQUIREMENTS OF THE SPECIFICATIONS, NOR IS HE AUTHORIZED TO APPROVE OR ACCEPT ANY PORTION OF THE COMPLETED PROJECT. HE SHALL CALL THE ATTENTION OF THE CONTRACTOR TO ANY FAILURE OF THE WORK OR MATERIALS TO CONFORM TO THE SPECIFICATIONS AND REQUIRE THE CONTRACTOR TO CORRECT THE DEFECTIVE MATERIALS. ANY DISPUTE BETWEEN THE INSPECTOR AND CONTRACTOR SHALL BE REFERRED TO THE OWNER OR THEIR REPRESENTATIVE. ANY ADVICE WHICH THE INSPECTOR MAY GIVE THE CONTRACTOR SHALL IN NO WAY BE CONSTRUED AS BINDING THE ENGINEER IN ANY WAY OR RELEASING THE CONTRACTOR FROM FULFILLING ANY OF THE TERMS OF THE CONTRACT.
 - d. ALL MATERIALS AND EACH PART OF DETAIL OF THE WORK SHALL BE SUBJECT AT ALL TIMES TO INSPECTION BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE OR THE AUTHORITY HAVING JURISDICTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MTL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO INSPECTION BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ALLOW ACCESS TO ALL PART OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION.
 - e. THE WORKMANSHIP SHALL CONFORM TO THE BEST STANDARD PRACTICE. UNLESS OTHERWISE SPECIFIED, THE SPECIFICATIONS OR RECOGNIZED ASSOCIATION OF MANUFACTURERS AND CONTRACTORS OR INDUSTRIAL MANUFACTURERS SHALL BE USED AS GUIDES FOR THE STANDARDS OF WORKMANSHIP.
 - f. ALL EXPOSED ITEMS OF WORK SHALL PRESENT A NEAT WORKMANLIKE APPEARANCE AND SHALL BE AS TRUE TO SHAPE AND ALIGNMENT AS POSSIBLE TO OBTAIN WITH MEASURING OR LEVELING INSTRUMENTS GENERALLY USED IN THE RESPECTIVE TYPES OF WORK. ITEMS OF WORK SHALL BE SOUND AND FULLY PROTECTED AGAINST DAMAGE AND PREMATURE DETERIORATION. IT IS SPECIFICALLY UNDERSTOOD THAT IN ALL QUESTIONS OF QUALITY AND ACCEPTABILITY OF WORKMANSHIP, THE CONTRACTOR AGREES TO ABIDE BY THE DECISION OF THE OWNER OR THEIR REPRESENTATIVE.
 - g. ALL MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DEFECTIVE AND SUCH MATERIALS SHALL BE REMOVED IN PLACE OR NOT, SHALL BE REJECTED AND SHALL BE REMOVED FROM THE WORK BY THE CONTRACTOR AT HIS EXPENSE. UPON FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH ANY ORDER OF THE OWNER RELATIVE TO THE PROVISIONS OF THIS ARTICLE, THE OWNER SHALL HAVE THE AUTHORITY TO REMOVE AND REPLACE SUCH DEFECTIVE MATERIAL AND TO DEDUCT THE COST OF SUCH REMOVAL AND REPLACEMENT FROM ANY MONIES DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
 - h. THE CONTRACTOR SHALL KEEP A LEGIBLE COPY OF THE PLANS, SPECIFICATIONS, AND ALL PERMITS AT THE SITE OF THE WORK AT ALL TIMES.
 - i. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE THE OWNER OR THEIR REPRESENTATIVE WITH A MARKED-UP SET OF DRAWINGS SHOWING ALL CHANGES OR VARIATIONS FROM THE ORIGINAL DRAWINGS. THESE CHANGES SHALL BE MADE ON A SET OF FINAL DRAWINGS THE CONTRACTOR'S PLACE. NOT AFTER THE WORK IS COMPLETE. THE SET OF DRAWINGS SHOULD BE KEPT CLEAN IN A LOCATION AT THE SITE WHERE THE OWNER OR THEIR REPRESENTATIVE MAY EXAMINE THEM.
 - j. THE MARKED-UP DRAWINGS SHALL BE ACCURATE. ARBITRARY MARKINGS ARE OF NO VALUE. CAREFUL MEASUREMENTS SHALL BE MADE TO LOCATE UNDERGROUND EXTERIOR AND UNDERGROUND INTERIOR SEWERS, GAS LINES, WATER LINES, ELECTRICAL CONDUIT AND MISCELLANEOUS PIPING.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRAFFIC CONTROL PLANS AND PERMITTING FOR ALL WORK TO BE COMPLETED ON-SITE OR IN THE PUBLIC RIGHT-OF-WAY.

01 70 00 – EXECUTION & CLOSEOUT REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE WITH THIS PLAN.
2. EXISTING UTILITY INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. BASED ON BEST AVAILABLE PUBLIC RECORDS, AS-BUILT DRAWINGS, AND FIELD OBSERVATIONS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND NATURE OF EXISTING UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
3. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL PROPOSED UTILITY CONNECTIONS AND CROSSINGS PRIOR TO PROCEEDING WITH ANY WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF THE BENCHMARKS AND HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATE TO KNOWN PROPERLY MONUMENTED BENCHMARKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH ANY WORK.
6. SURVEY BENCHMARKS AND CONTROL POINTS SHALL BE MAINTAINED AND PROTECTED FROM DISTURBANCE.
7. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED AT ALL TIMES. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. THE COST OF RESTORATION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED.
9. PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SITE SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES, SHALL BID ON THEIR OWN ESTIMATE OF THE WORK REQUIRED, AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
11. REQUESTS FOR CLARIFICATION MUST BE INTERPRETED BY THE OWNER/ENGINEER PRIOR TO AWARD OF CONTRACT, AND WHEN NECESSARY, OFFICIAL WRITTEN RESPONSES WILL BE ISSUED. OFFICIAL WRITTEN RESPONSES SHALL BE BINDING TO THE WORK. IN NO WAY SHALL VERBAL DIALOGUE CONSTITUTE OFFICIAL RESPONSE.
12. SHOULD ANY DISCREPANCIES BE DISCOVERED BY THE CONTRACTOR AFTER AWARD OF CONTRACT, NOTIFY OWNER/ENGINEER IN WRITING IMMEDIATELY. CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES SHALL NOT COMMENCE OR CONTINUE UNTIL AN OFFICIAL WRITTEN RESPONSE IS ISSUED.
13. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
14. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

DIVISION 31 – EARTHWORK

31 10 00 – SITE CLEARING & DEMOLITION

1. WORK SHALL CONSIST OF DEMOLITION, ABANDONMENT, AND REMOVAL OF EXISTING FOUNDATIONS, WALLS, SLABS, FENCES, PIPING, PAVEMENTS, AND OTHER MANMADE ITEMS INTERFERING WITH NEW CONSTRUCTION. WORK SHALL ALSO CONSIST OF CLEARING AND GRUBBING OF TREES, SHRUBS, VEGETATION, ROOTS, STUMPS, RUBBISH, AND OTHER PERISHABLE MATTER INTERFERING WITH NEW CONSTRUCTION.
2. ALL ITEMS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE PLAN. THE CONTRACTOR SHALL CALL 811 TO NOTIFY UTILITY PROVIDERS AND REQUEST FIELD LOCATION OF EXISTING UTILITIES WITHIN PROJECT LIMITS PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMMENCING ANY CONSTRUCTION RELATED ACTIVITY.
4. CLEARLY IDENTIFY ALL VEGETATION TO BE PRESERVED AND/OR RELOCATED PRIOR TO CLEARING AND GRUBBING.
5. PROTECT EXISTING IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. ANY DAMAGED IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION, OR AS OTHERWISE ACCEPTABLE TO THE OWNER.
6. REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
7. SAWCUT ALL PAVEMENT TO BE REMOVED IN STRAIGHT LINES TO FULL DEPTH.
8. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. BREAK UP CONCRETE SLABS THAT ARE 2 FEET OR MORE BELOW PROPOSED SUBGRADE TO PERMIT DRAINAGE.
9. DISCONNECT AND SEAL/CAP EXISTING UTILITIES TO BE REMOVED, RELOCATED, OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF UTILITY PROVIDERS.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING NECESSARY REMOVAL OF AND/OR RELOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
11. DO NOT INTERRUPT UTILITY SERVICE TO EXISTING FACILITIES UNLESS PERMITTED BY THE OWNER.
12. VOIDS LEFT BY REMOVALS SHALL BE LEVELLED TO PREVENT PONDING OF WATER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL RUBBISH, TRASH, GARBAGE, AND DEBRIS FROM THE PROJECT SITE.
14. RUBBISH, TRASH, GARBAGE, AND LITTER SHALL BE PLACED IN SEALED CONTAINERS THROUGHOUT CONSTRUCTION.

31 20 00 – EARTH MOVING

1. WORK SHALL CONSIST OF STRIPPING AND STORAGE OF TOPSOIL, EXCAVATION, EMBANKMENT, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE LAND BALANCE, COMPACTION, FINISH GRADING, SUBGRADE PREPARATION, AND REPLACEMENT OF TOPSOIL.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION BASED ON FIELD CONDITIONS AND THESE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN.
4. EXCAVATE TO SUBGRADE REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. EXCAVATED MATERIAL MAY INCLUDE ROCK AND UNCLASSIFIED OBSTRUCTIONS, WHICH IS CONSIDERED AVOIDABLE AND SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE PLAN.
5. EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIAL SHALL BE COMPLETELY REMOVED FROM WITHIN AND A MINIMUM OF 10 FEET BEYOND BUILDING PAD AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL.
6. EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE. UNSATISFACTORY MATERIAL SHALL BE REMOVED TO A MINIMUM OF 2 FEET BELOW PROPOSED SUBGRADE WITHIN GREENSPACE AND PAVEMENT AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL.
7. EXCAVATION SHALL BE TO A MINIMUM OF 1/4-INCH DEPTH. DEVIATIONS SHALL NOT BE CONSISTENT IN ONE DIRECTION.
8. DISKING, HARROWING, AND AERATION TECHNIQUES SHALL BE USED TO DRY SUBGRADE PRIOR TO PROOF ROLLING. IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, PROOF ROLL SUBGRADE BELOW BUILDING PAD AND PAVEMENT AREAS DURING DRY WEATHER WITH A FULLY LOADED TANDUM AXLE DUMP TRUCK WHERE COHESIVE SOILS ARE PREDOMINANT, AND WITH A SMOOTH DRUMMED VIBRATORY ROLLER WHERE GRANULAR SOILS ARE PREDOMINANT. SUBGRADE WHICH IS OBSERVED TO RUT OR DEFLECT EXCESSIVELY SHALL BE UNDERGUT IN ACCORDANCE WITH THE PLAN.
9. THE CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING. SURFACE WATER AND GROUNDWATER SHALL BE PREVENTED FROM ENTERING EXCAVATIONS, PONDING ON PREPARED SUBGRADES, AND INTO EXISTING DRAINAGE SYSTEMS.
10. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL EARTHWORK COMPUTATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SLOPE. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
11. TOPSOIL REPLACEMENT DEPTH SHALL BE AS CALLED OUT ON THE CIVIL OR LANDSCAPE PLANS, OR A MINIMUM OF SIX INCHES IF NOT CALLED OUT ON LANDSCAPE PLAN.
12. TOPSOIL IN PARKING ISLANDS: ALL PARKING LOT ISLANDS TO BE BACKFILLED WITH TOPSOIL TO A MINIMUM DEPTH OF 12" BY THE CONTRACTOR TO INSURE LONG TERM PLANT HEALTH. CROWN ALL PLANTING ISLANDS A MINIMUM OF 6" TO PROVIDE PROPER DRAINAGE, UNLESS OTHERWISE SPECIFIED.

31 25 00 – EROSION & SEDIMENTATION CONTROLS

1. WORK SHALL CONSIST OF INSTALLATION OF TEMPORARY AND PERMANENT PRACTICES FOR SEDIMENTATION CONTROL, EROSION CONTROL, SLOPE PROTECTION, AND REMOVAL OF PRACTICES UPON FINAL SITE STABILIZATION.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MTL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO INSPECTION BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ALLOW ACCESS TO ALL PART OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION.
4. ALL PRACTICES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH PERMIT REQUIREMENTS.
5. ALL PRACTICES SHALL BE ROUTINELY INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. THE CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND CONDUCT REPAIRS AS NEEDED.
6. ALL DISTURBED AREAS SHALL DRAIN TO A CONTROL PRACTICE AT ALL TIMES DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING UPON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL ADDITIONAL CONTROL PRACTICES IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL CONTROL PRACTICES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
7. ALL DISTURBED GROUND LEFT INACTIVE FOR 7 DAYS SHALL BE STABILIZED WITH A TEMPORARY SEED MIXTURE AND MULCH. THE TEMPORARY SEED MIXTURE SHALL BE IN ACCORDANCE WITH SECTION 630 OF WISDOT STANDARD SPECIFICATIONS. WATERSHED WHEAT OR RYE SHALL BE USED FOR TEMPORARY SEED AFTER SEPTEMBER 15TH.
8. DISTURBED AREAS THAT CAN NOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM).
9. ALL ACTIVITIES ON THE PROJECT SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME.
10. DUST GENERATED BY CONSTRUCTION RELATED ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING, OR OTHER APPROPRIATE MEASURES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MTL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO INSPECTION BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ALLOW ACCESS TO ALL PART OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MTL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO INSPECTION BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ALLOW ACCESS TO ALL PART OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT SITE AND PUBLIC ROADS DURING CONSTRUCTION. PUBLIC ROADS SHALL BE KEPT FREE OF CONSTRUCTION DEBRIS, SEDIMENT TRACKED FROM AREAS UNDER CONSTRUCTION BY DAILY SWEEPING OR OTHER APPROPRIATE MEASURES.
14. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
15. ALL APPROVED LANDSCAPE PLANS SHALL BE FERTILIZED, RESEED, AND MULCHED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 12 00 – ASPHALT PAVING

1. WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. ASPHALT PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW SHALL BE FORMATTED USING WISDOT MIX DESIGN STANDARD DATA INPUT FORM/REPORT 249.
4. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
5. ASPHALTIC MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 455 OF WISDOT STANDARD SPECIFICATIONS.
6. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 460 OF WISDOT STANDARD SPECIFICATIONS.
7. DO NOT CONDUCT ASPHALT PAVING IF ANY OF THE FOLLOWING CONDITIONS EXIST: CRUSHED STONE BASE IS WET OR EXCESSIVELY DAMP. TEMPERATURE IS BELOW 30 DEGREES FAHRENHEIT AT TIME OF BINDER COURSE INSTALLATION. TEMPERATURE HAS BEEN BELOW 35 DEGREES FAHRENHEIT WITHIN 12 HOURS PRIOR TO TACK COAT APPLICATION. TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AT TIME OF SURFACE COURSE INSTALLATION.
8. COMPACT ASPHALT IN ACCORDANCE WITH SECTION 450 OF WISDOT STANDARD SPECIFICATIONS. COMPACT ASPHALT TO PROHIN PLUS/MINUS 1/4-INCH FOR BINDER COURSE, AND WITHIN PLUS 1/4-INCH FOR SURFACE COURSE. (NO MINUS).
9. APPLY TACK COAT BETWEEN ASPHALT COURSES AT A MINIMUM RATE OF 0.25 GAL./SY.
10. NO TRAFFIC SHALL BE ALLOWED ON ASPHALT AFTER FINAL ROLLING UNTIL IT HAS COOLED AND HARDENED.
11. FINAL ASPHALT SURFACE SHALL BE WITHIN A 1/8-INCH TOLERANCE AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED LONGITUDINALLY OR TRANSVERSELY. REMOVE AND REPLACE ALL RAISED AND DEPRESSED AREAS EXCEEDING TOLERANCE.
12. A SLOPE NO GREATER THAN 2% IN ALL DIRECTIONS AT ADA PARKING STALLS AND ADJACENT UNLOADING AREAS IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
13. A SLOPE NO GREATER THAN 5% ALONG THE LENGTH OF THE ACCESSIBLE ROUTE IS REQUIRED. A SLOPE NO GREATER THAN 2% ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

32 13 00 – CONCRETE PAVING

1. WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
4. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH WISDOT STANDARD SPECIFICATIONS.
- a. SECTION 401 – CONCRETE PAVING
 - b. SECTION 415 – CONCRETE PAVEMENT
 - c. SECTION 416 – CONCRETE PAVEMENT REPAIR
 - d. SECTION 601 – CONCRETE CURBING
 - e. SECTION 602 – CONCRETE SIDEWALK AND PATIO PAVING
5. CONCRETE SHALL BE GRADE A AIR-ENTRAINED IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS. MINIMUM 28 COMPRESSIVE STRENGTH.
6. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS.
7. WATER SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C94 / C94M.
8. AIR-ENTRAINING SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C260.

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 17 00 – PAVEMENT MARKING

1. WORK SHALL CONSIST OF INSTALLATION OF PARKING LOT STRIPING, DIRECTIONAL ARROWS, AND ACCESSIBLE SYMBOLS.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH SECTION 646 OF WISDOT STANDARD SPECIFICATIONS AND WISDOT APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS NOTED OTHERWISE ON THIS PLAN. MARKINGS SEPARATING OPPOSING TRAFFIC SHALL BE YELLOW.
4. ALL PARKING LOT STRIPING SHALL BE 1/4-INCH WIDTH UNLESS NOTED OTHERWISE ON THIS PLAN.
5. EXISTING ROADWORK SHALL BE REMOVED AND UNTIL PAVEMENT MARKING IS DRIED, PROTECT ADJACENT AREAS FROM RECEIVING PAINT OR EPOXY.
6. APPLY PAVEMENT MARKING IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS TO PRODUCE MARKINGS AS INDICATED. PAINT SHALL BE APPLIED TO A DRY SURFACE. PAINT SHALL BE APPLIED TO A DRY SURFACE.
7. APPLY PAVEMENT MARKING TO CLEAN AND DRY SURFACE, FREE FROM FROST, TO ENSURE PROPER BONDING.
8. NOTIFY OWNER OF ANY UNSOUND CONDITIONS PRIOR TO COMMENCING WORK. APPLYING PAVEMENT MARKING CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION.

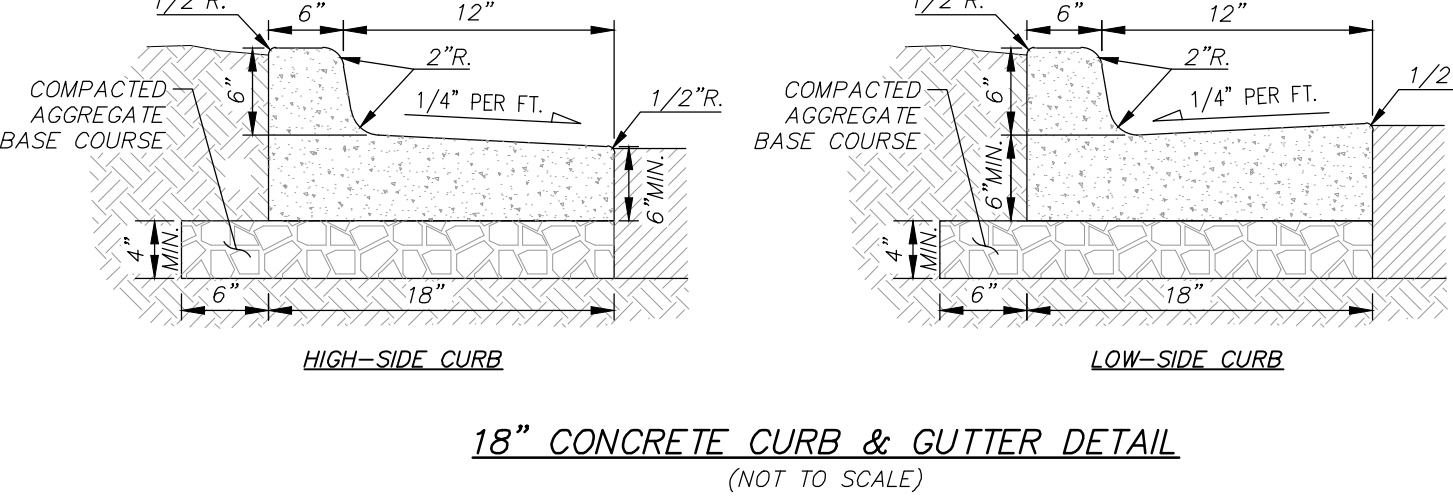
DIVISION 33 – UTILITIES

33 10 00 – WATER DISTRIBUTION

1. WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE WATER DISTRIBUTION SYSTEM AND ALL APPURTENANCES.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. ALL PUBLIC WATER DISTRIBUTION WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE NR 811, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW.
4. ALL PRIVATE SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE SPS 382, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW.
5. POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 18, CLASS 150 CONFORMING TO AWWA C900 WITH INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS IN ACCORDANCE WITH SECTION 8.2.0.0 OF SSSWCW.
6. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.2.0.0 OF SSSWCW.
7. HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 8.2.0.0 OF SSSWCW.
8. POLYETHYLENE TUBING SHALL BE SDR 9 IN ACCORDANCE WITH SECTION 8.2.4.0 OF SSSWCW AND CONFORM TO AWWA C901.
9. COPPER TUBING SHALL BE TYPE "K" IN ACCORDANCE WITH SECTION 8.2.4.0 OF SSSWCW AND CONFORM TO ASTM B88.
10. BALL VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.3.0.0 OF SSSWCW AND CONFORM TO AWWA C800 AND ASTM B62.
11. GATE VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.2.7.0 OF SSSWCW AND CONFORM TO AWWA C500.
12. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.2.8.0 OF SSSWCW AND CONFORM TO AWWA C504.
13. VALVE BOXES SHALL BE IN ACCORDANCE WITH SECTION 8.2.9.0 OF SSSWCW AND CONFORM TO ASTM A448. VALVE BOXES SHALL BE SIZE DD, SCREW TYPE, 3-PIECE ASSEMBLY, WITH COVERS MARKED "WATER". ALL VALVE BOXES SHALL BE SET TO PROPER GRADE, AND SUPPORTED BY USE OF 4" OR 6" IRON PIPE.
14. HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 8.2.6.0 OF SSSWCW AND CONFORM TO AWWA C502. PUMPER NOZZLE SHALL BE PERPENDICULAR TO AND ORIENTED TOWARDS THE PAVEMENT. HYDRANTS SHALL BE ATTACHED BY MEANS OF TEE AND HAVE A GROUND LINE TO CENTER DISTANCE OF 18 TO 21 INCHES.
15. FITTINGS SHALL BE CLASS 150 IN ACCORDANCE WITH SECTION 8.2.2.0 OF SSSWCW, CONFORMING TO AWWA C110, AND PROVIDED WITH MECHANICAL JOINTS.
16. MECHANICAL JOINTS SHALL BE MADE WITH "COR TEN" NUTS AND BOLTS, OR CORROSION-RESISTANT EQUIVALENTS CONFORMING TO AWWA C111.
17. POLYETHYLENE WRAP SHALL BE IN ACCORDANCE WITH SECTION 8.2.1.0 OF SSSWCW AND PROVIDED FOR ALL METAL PIPES AND FITTINGS.
18. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH SECTION 4.3.1.3 OF SSSWCW AND PROVIDED FOR ALL BENDS, CAPS, PLUGS, AND TEES.
19. TRENCH SECTION SHALL BE IN ACCORDANCE WITH FILE NO. 36 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES.
20. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.4.3.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES.
21. TRENCH BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.4.3.4 OF SSSWCW BENEATH GREENSPACE AREAS, UNLESS ALTERNATIVE COMPACTION IS RECOMMENDED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION, IN WHICH CASE THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
22. CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED.
23. TRACER WIRE SHALL BE BLUE AND INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC WATER MAINS. PRIVATE WATER MAINS, AND BUILDING WATER SERVICE PIPES, TRACER WIRE SHALL BE INSULATED, SINGLE-CONDUCTOR, 12 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 400 FEET.
24. PROPOSED STORM SERVICES SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL.
25. THE CONTRACTOR IS RESPONSIBLE FOR THE SIZE, TYPE AND NUMBER OF BENDS REQUIRED TO COMPLETE CONSTRUCTION, WHICH SHALL BE INCIDENTAL AND INCLUDED IN THE COST OF WORK.
26. THE CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AND SAFE WATER SAMPLING. HYDROSTATIC TESTING SHALL BE IN ACCORDANCE WITH SECTION 4.15.0 OF SSSWCW. DISINFECTION SHALL BE IN ACCORDANCE WITH SECTION 4.16.0 OF SSSWCW AND CONFORM TO AWWA C651. WATER MAINS SHALL BE FLUSHED AND TESTED IN THE PRESENCE OF THE WATER UTILITY OPERATOR.

33 30 00 – SANITARY SEWERAGE

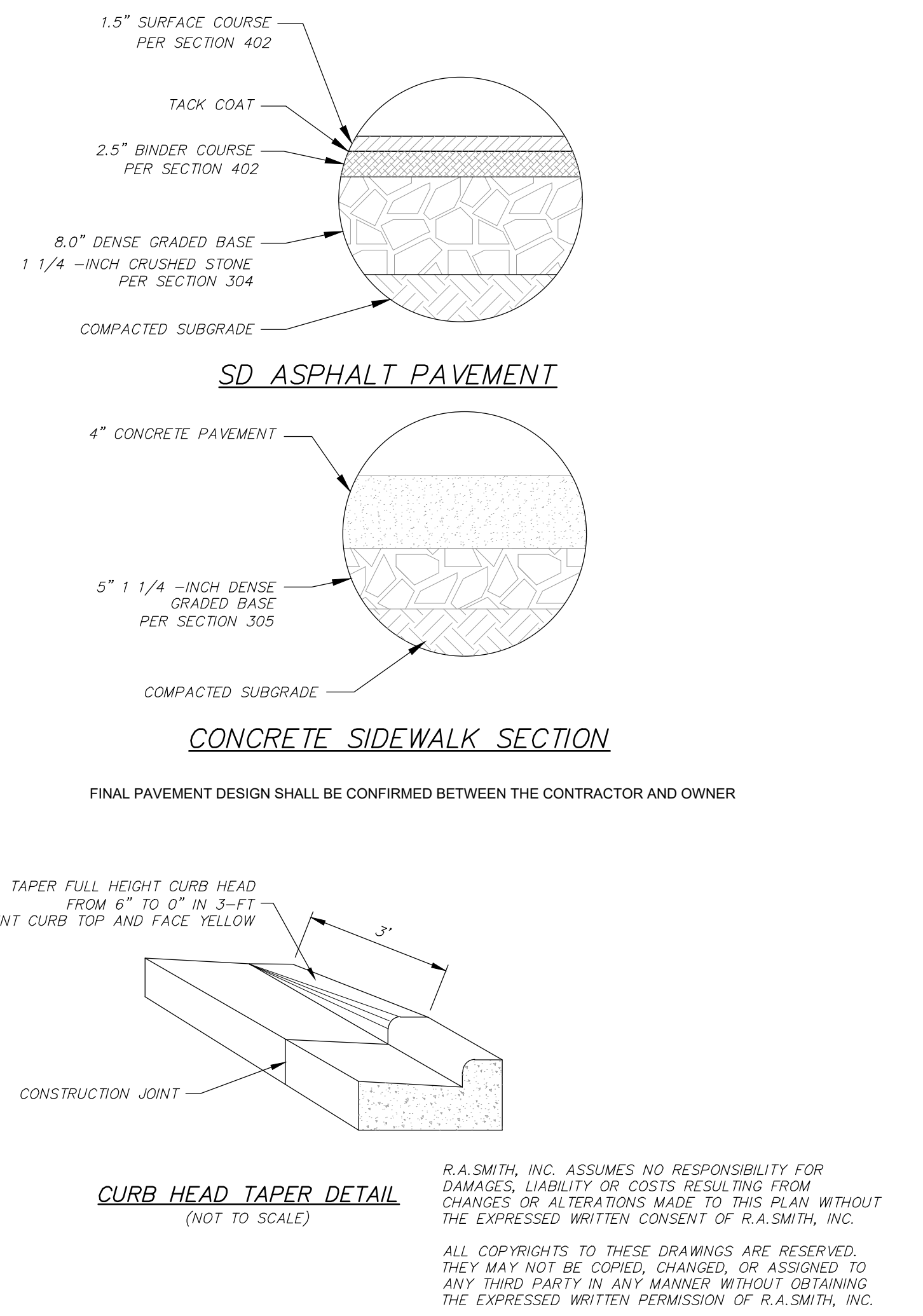
1. WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE SANITARY SEWERAGE SYSTEM AND ALL APPURTENANCES.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. ALL PUBLIC SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE NR 110, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW.
4. ALL PRIVATE SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE SPS 382, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW.
5. POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 35 CONFORMING TO ASTM D3034 FOR DEPTHS LESS THAN 18 FEET, AND SHALL BE SDR 18 CONFORMING TO AWWA C900 FOR DEPTHS GREATER THAN 18 FEET, BOTH WITH PUSH-ON RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTIONS 8.1.0.6 AND 8.4.1.4 OF SSSWCW.
6. ASPHALT TO PROHIN PLUS/MINUS 1/4-INCH FOR DEPTHS GREATER THAN 18 FEET, BOTH WITH PUSH-ON RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTIONS 8.1.0.6 AND 8.4.1.4 OF SSSWCW.
7. TRENCH SECTION SHALL BE CLASS B IN ACCORDANCE WITH SECTION 3.2.6 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES.
8. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.4.3.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES.
9. TRENCH BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.4.3.4 OF SSSWCW BENEATH GREENSPACE AREAS, UNLESS ALTERNATIVE COMPACTION IS RECOMMENDED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION, IN WHICH CASE THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
10. CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED.
11. ALL CONNECTIONS TO EXISTING SANITARY SEWER PIPES AND STRUCTURES SHALL BE CORED CONNECTIONS, UNLESS NOTED OTHERWISE. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR ALL BUILDING SANITARY SERVICE PIPES, UNLESS NOTED OTHERWISE.



DIVISION 33 – UTILITIES

33 40 00 – STORMWATER DRAINAGE

1. CLEANOUTS AND RISER EXTENSIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPS 382.35 FROM SEWER PIPES TO GROUND SURFACE. LIGHT DUTY LOADING CLASSIFICATION SHALL BE USED IN UNPAVED AREAS. MEDIUM DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED VEHICULAR TRAFFIC AREAS. FRAMES AND COVERS SHALL BE SET FLUSH WITH SURFACE.
2. TRACER WIRE SHALL BE GREEN AND INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC WATER MAINS. PRIVATE WATER MAINS, AND BUILDING WATER SERVICE PIPES, TRACER WIRE SHALL BE INSULATED, SINGLE-CONDUCTOR, 12 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 400 FEET.
3. PROPOSED STORM SERVICES SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL.
4. THE CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO FINISHED SURFACE.
5. AFTER INSTALLATION OF SANITARY SEWERAGE SYSTEM, CLEAN ALL DEBRIS FROM SYSTEM AND INSPECT FOR DAMAGE. CONDUCT TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SSSWCW. REPAIR ANY DAMAGE AND REPLACE ANY PIPE NOT PASSING TESTING.



DESCRIPTION

DATE

16745 W. Bluemound Road
Brookfield, WI 53005-9398
(262) 781-1000
rosmith.com
CREATIVITY BEYOND ENGINEERING

OSCAR'S FROZEN CUSTARD
TOWN OF BROOKFIELD
SPECIFICATIONS

© COPYRIGHT 2025
R.A. Smith, Inc.

DATE: 06/02/2025

SCALE: N.T.S.

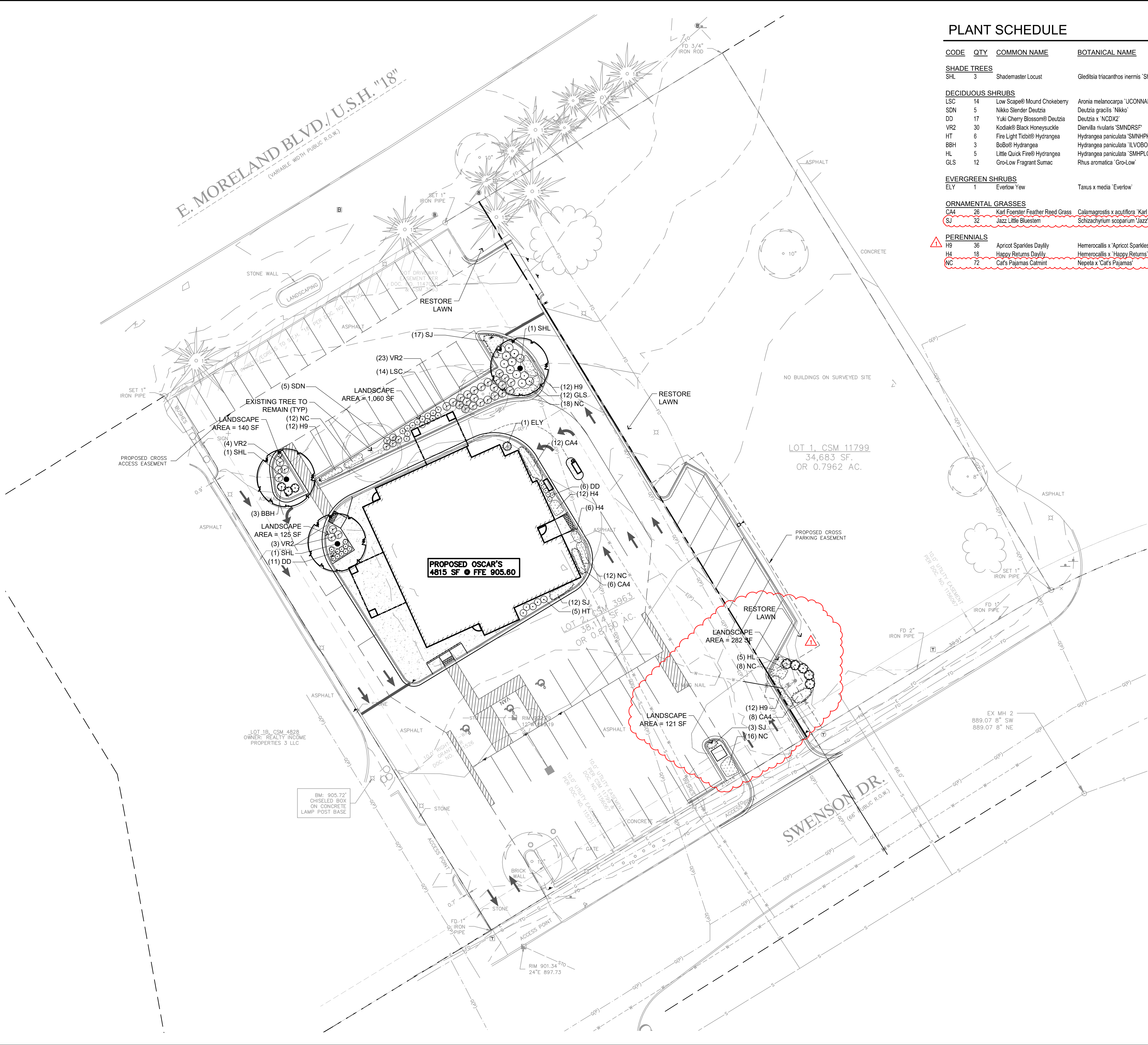
JOB NO: 3240290

PROJECT MANAGER:
CHRISTOPHER WHITE, P.E.

DESIGNED BY: CBW

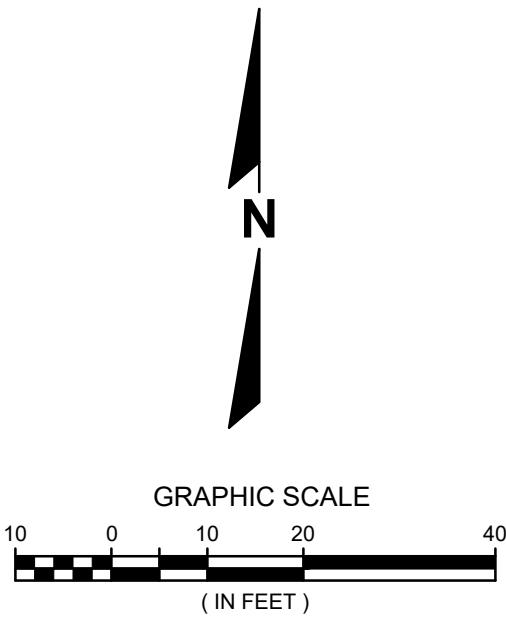
CHECKED BY: MAF

SHEET NUMBER
C600



PLANT SCHEDULE

CODE	QTY	COMMON NAME	BOTANICAL NAME	INSTALLED SIZE	ROOT	SPACING
SHADE TREES						
SHL	3	Shademaster Locust	Gleditsia triacanthos inermis 'Shademaster'	2 1/2" CAL	B&B	Spacing as shown
DECIDUOUS SHRUBS						
LSC	14	Low Scape® Mound Chokeberry	Aronia melanocarpa 'UCONNAM165'	18" SPD	CONT	Spacing as shown
SDN	5	Nikko Stender Deutzia	Deutzia gracilis 'Nikko'	18" HT	CONT	Spacing as shown
DD	17	Yuki Cherry Blossom® Deutzia	Deutzia x 'NCDX2'	18" HT	CONT	Spacing as shown
VR2	30	Kodiak® Black Honeysuckle	Diervilla rivularis 'SMNDRSF'	18" HT	CONT	Spacing as shown
HT	6	Fire Light Tidbit® Hydrangea	Hydrangea paniculata 'SMNHPK'	18" HT	CONT	Spacing as shown
BBH	3	BoBo® Hydrangea	Hydrangea paniculata 'ILVOBO'	18" HT	CONT	Spacing as shown
HL	5	Little Quick Fire® Hydrangea	Hydrangea paniculata 'SMHPLQF'	18" HT	CONT	Spacing as shown
GLS	12	Gro-Low Fragrant Sumac	Rhus aromatica 'Gro-Low'	18" SPD	CONT	Spacing as shown
EVERGREEN SHRUBS						
ELY	1	Everlow Yew	Taxus x media 'Everlow'	18" SPD	B&B	Spacing as shown
ORNAMENTAL GRASSES						
CA4	26	Karl Foerster Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 GAL	CONT	24" Spacing
SJ	52	Jazz Little Bluestem	Schizachyrium scoparium 'Jazz'	1 GAL	CONT	18" Spacing
PERENNIALS						
H9	36	Apricot Sparkles Daylily	Hemerocallis x 'Apricot Sparkles'	1 GAL	POT	18" Spacing
H4	18	Haggy Returns Daylily	Hemerocallis x 'Haggy Returns'	1 GAL	POT	18" Spacing
NC	72	Cat's Pajamas Catmint	Nepeta x 'Cat's Pajamas'	1 GAL	POT	18" Spacing



DESCRIPTION

Revision 1

DATE

07-23-25

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

raSmith
CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

OSCAR'S FROZEN CUSTARD
TOWN OF BROOKFIELD

SITE LANDSCAPE PLAN

© COPYRIGHT 2025
R.A. Smith, Inc.

DATE: 06/02/2025

SCALE: 1" = 20'

JOB NO. 3240290

PROJECT MANAGER:
CHRISTOPHER WHITE, P.E.

DESIGNED BY: REW

CHECKED BY: REW

SHEET NUMBER

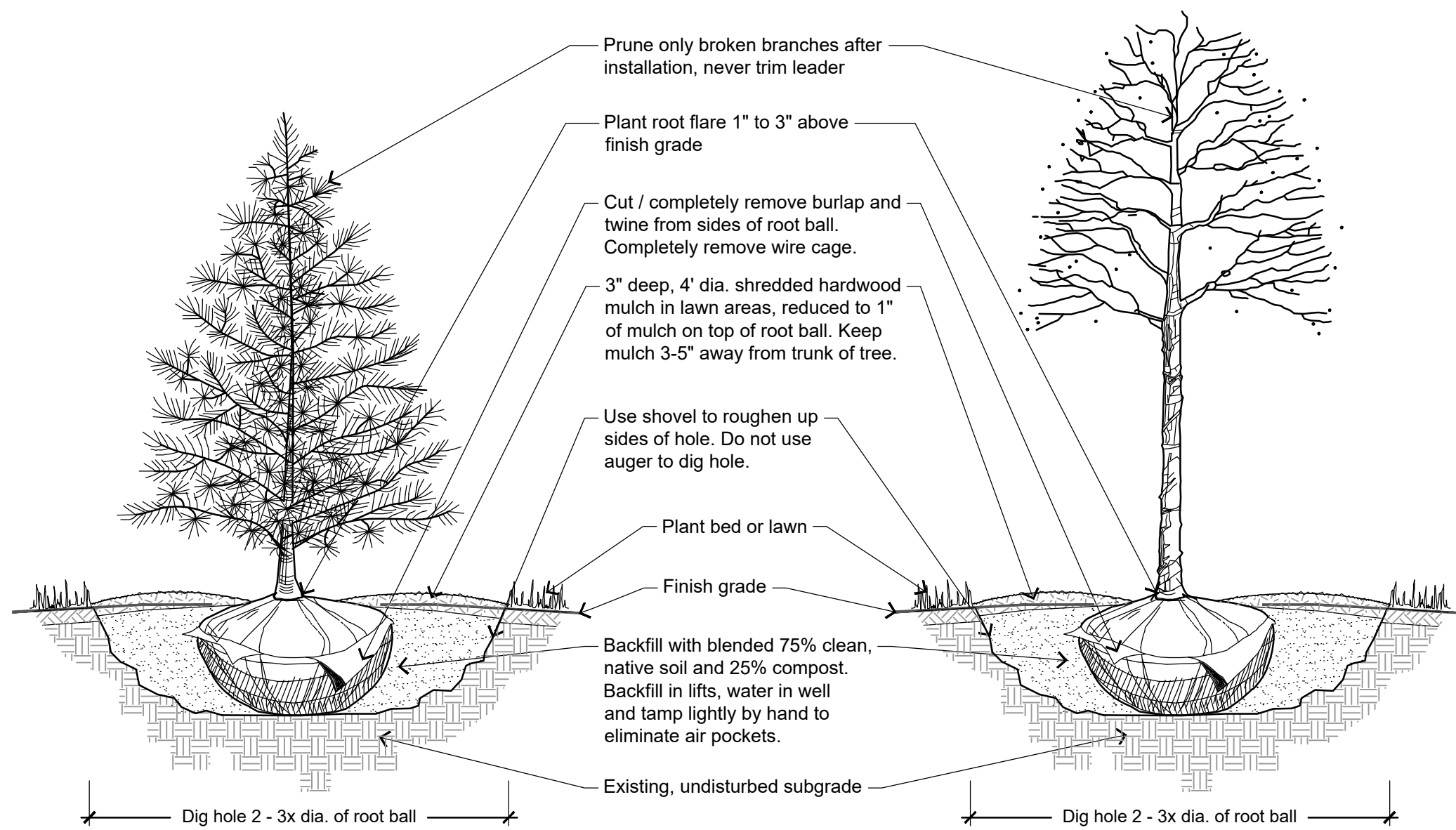
L100



Know what's below.
Call before you dig.

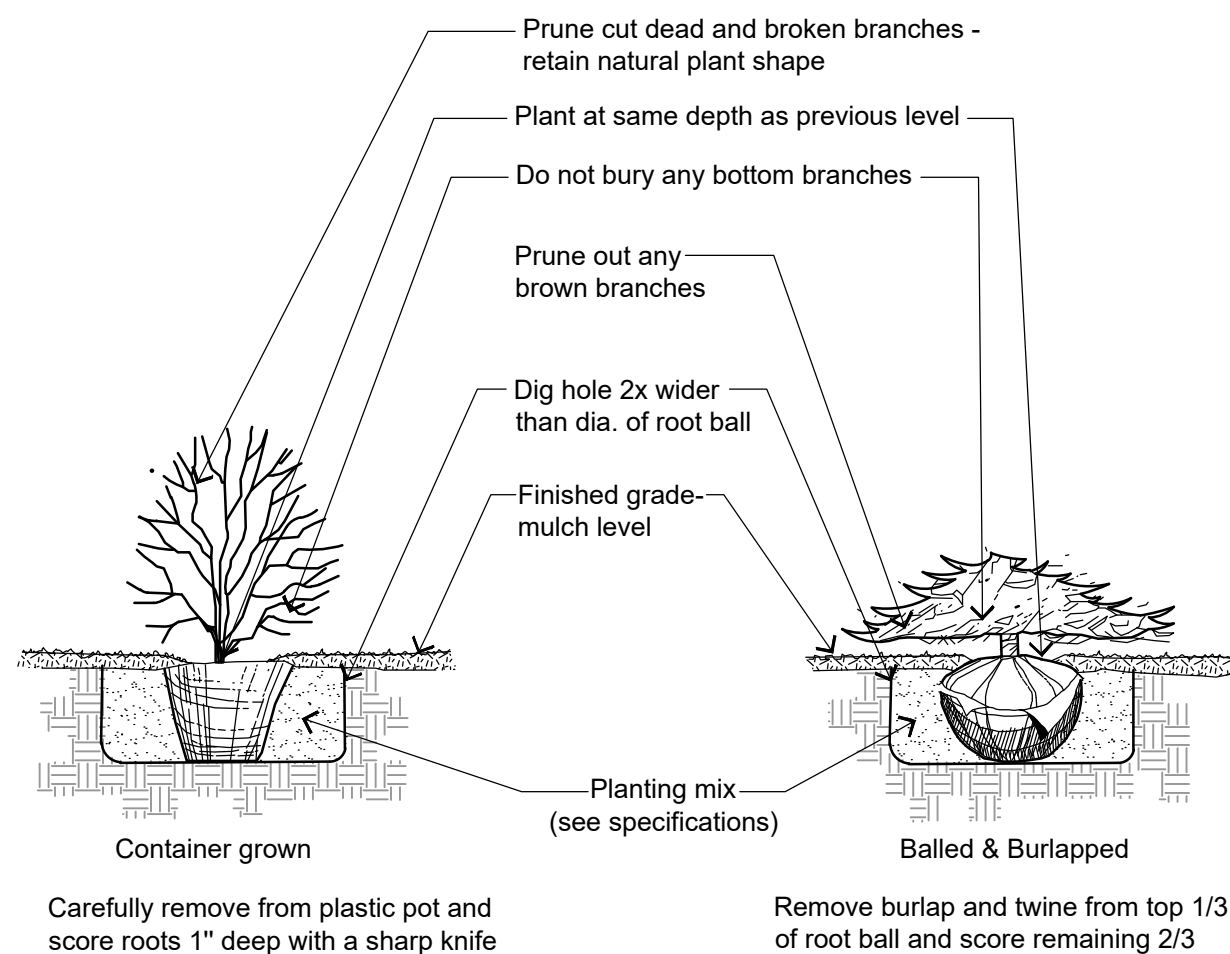
R.A.SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH, INC.
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A.SMITH, INC.

PLANTING DETAILS



1 TREE PLANTING DETAIL
NOT TO SCALE

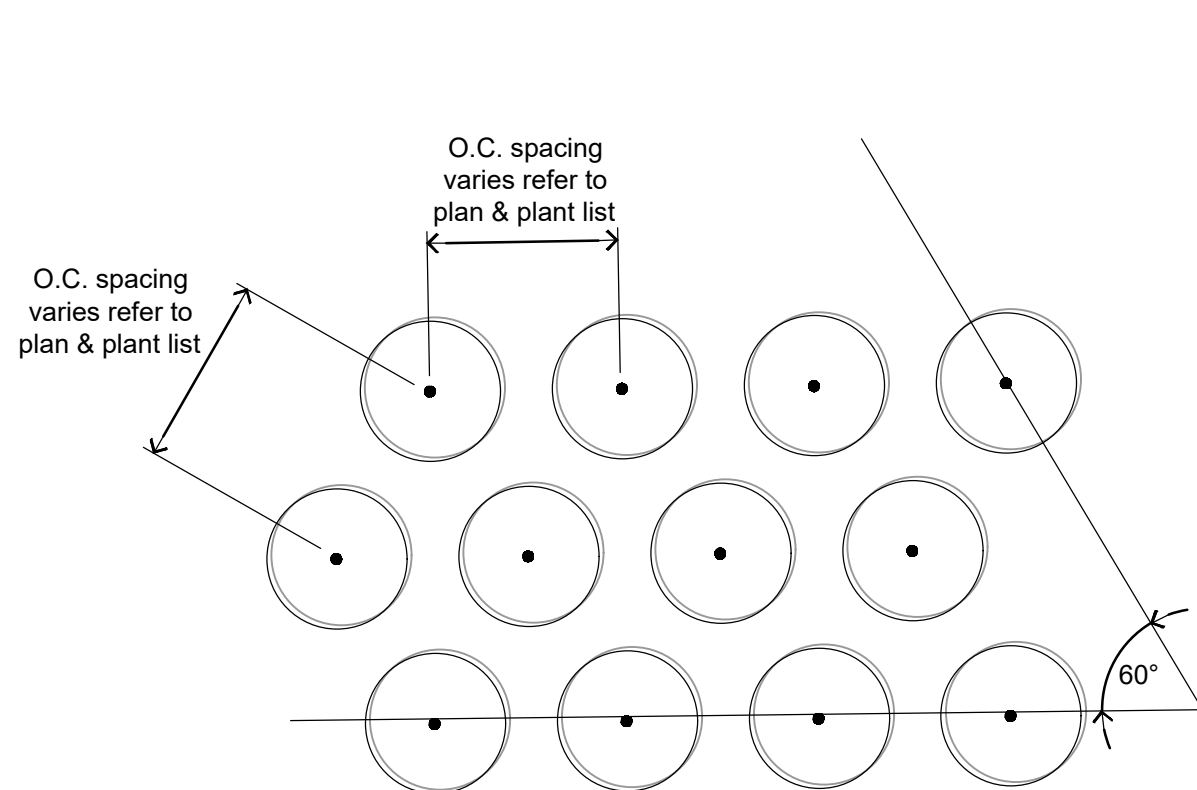
P-PL-TREE-07



2 SHRUB PLANTING DETAIL

NOT TO SCALE

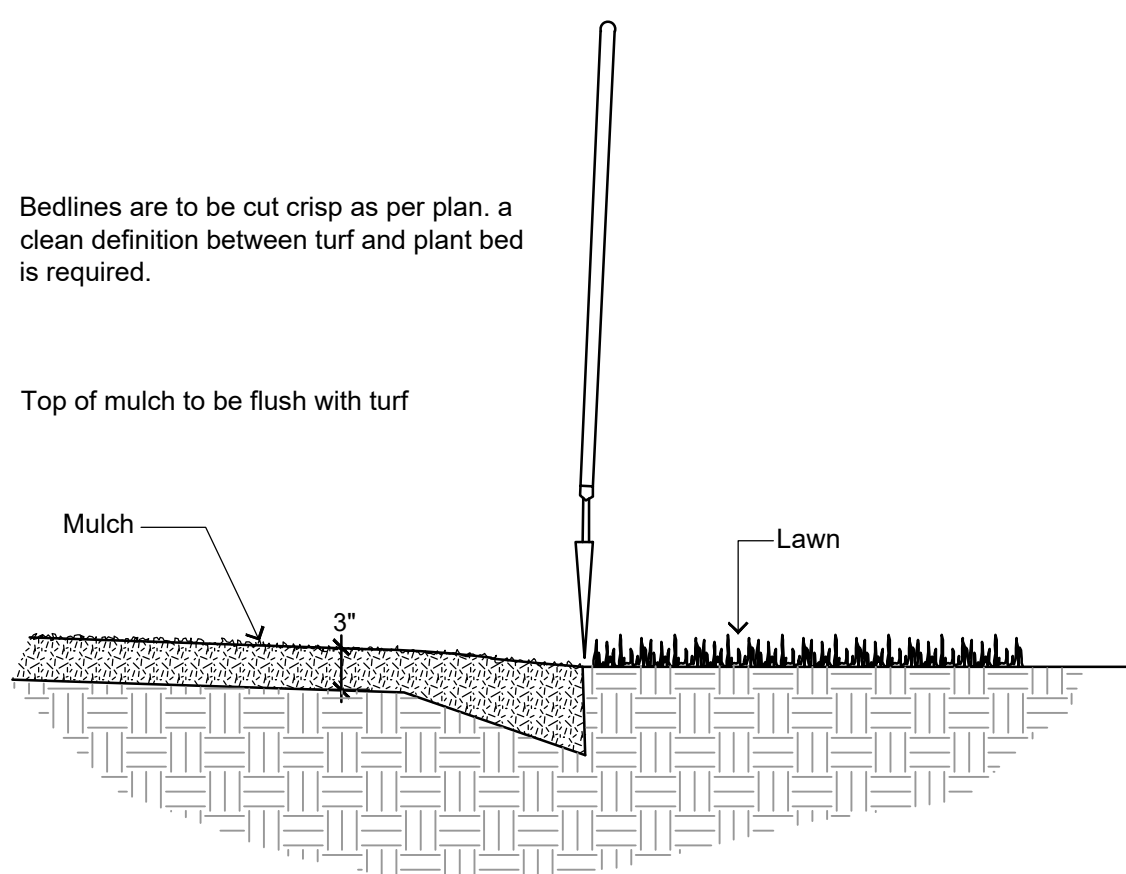
NOT TO SCALE



3 PLANTING LAYOUT

NOT TO SCALE

NOT TO SCALE



4 SHOVEL CUT PLANT BED EDGING DETAIL
NOT TO SCALE

NOT TO SCALE

P-PL-BDEG-01

GENERAL LANDSCAPE NOTES

- Contractor responsible for contacting utility and private underground utility locating service to have site marked prior to any digging or earthwork.
2. Contractor to verify all plant quantities shown on plant list and verify with plan. Report any discrepancies immediately to general contractor.
3. All plantings shall comply with standards as described in American Standard Nursery Schedule - ANSI Z60.1 (latest version). General contractor or owner's representative reserves the right to inspect and potentially reject any plants that are inferior, compromised, undersized, diseased, improperly transported, installed incorrectly or damaged.
4. Any potential plant substitutions must be submitted in writing to the general contractor and approved by the owner's representative or landscape architect prior to installation. All plants must be installed as per sizes and quantities shown on plant material schedule. Unless approved by the owner's representative or landscape architect. Any potential changes to sizes shown on plan and appropriate cost credits / adjustments must be submitted in writing to the general contractor and approved by the owner's representative or landscape architect prior to installation.
5. The subsequent requirements regarding topsoil must be coordinated between the general contractor, grading contractor and landscape contractor.
6. Subgrade areas shall be graded to within 1", more or less, of proposed subgrade. Deviations shall not be consistent in one direction.
7. Topsoil shall be placed to meet proposed finished grade. Planting islands to be backfilled with clean topsoil free of debris (per note below) to a minimum depth of 18" by general / grading contractor to insure long term plant health. All other landscaped areas to receive a minimum depth of 6" of clean topsoil (per note below).
8. Topsoil shall be: screened existing stockpiled topsoil, existing in-place soil, or screened soil from an off-site source that will support plant growth, and meets the following requirements. Clean topsoil must be free of rocks, coarse fragmash shell, coarse plant matter, weeds, roots, debris, and any other substance to cause mechanical or pneumatic damage to plants. Discard any gravel, heavy clay material. When hole has been backfilled to three-quarters of its depth, pour water around the root ball and allow to soak into soil to settle the soil. Continue backfilling until soil is brought to grade level.
9. Planting beds and parking lot islands: Landscape contractor is responsible for ensuring that unwanted material (gravel, debris, roots and other extraneous material harmful to plant growth) has been removed from the topsoil and for the fine grading of all landscaped areas. The fine grading of planting beds and parking lot islands may require additional topsoil to bring to finish grade, allowing for topsoil depth. Coarse plant matter and planting beds not adjacent to buildings will require a minimum of 6" of topsoil to provide proper drainage, unless otherwise specified. All other finished landscaped areas to be smooth, uniform and provide positive drainage away from structures and pavement.
10. Seeded areas to receive a settled minimum depth of 6" of blended, prepared and non-compacted topsoil. Landscape contractor is responsible for excavation and removal of unwanted material (gravel, debris, roots and other extraneous material harmful to plant growth) to the specified depth, supplementing with additional topsoil (if necessary) and the fine grading of all seeded areas.
11. Tree planting (see planting details): plant all trees slightly higher than finished grade at root flare. Remove excess soil from top of root ball, if needed. An auger is not an acceptable method of digging tree planting holes. Scarcely side walls of tree pit prior to installation. Once tree has been placed into the hole, is at the correct depth and vertical alignment and will no longer be moved; brace root ball by tamping soil around the lower portion of the root ball. Remove and discard twine / rope, burlap and support wire from the sides of root ball. Backfill pit with 75% existing soil removed from excavation and 25% compost blended prior to backfilling holes, in six-inch lifts. Lightly water each lift using foot pump or hand tools to settle backfill, support tree and eliminate voids. Do not over compact or use mechanical or pneumatic tamping equipment. Discard any gravel, heavy clay material. When hole has been backfilled to three-quarters of its depth, pour water around the root ball and allow to soak into soil to settle the soil. Continue backfilling until soil is brought to grade level.
- Provide a 3" deep, 4 ft diameter shredded hardwood bark mulch ring around all trees in lawn areas, reduced to 1" deep on top of root ball. Keep mulch 3"-5" away from trunk of tree. Trees that are installed incorrectly will be replaced at the time and expense of the landscape contractor. Trees too large for two people to lift in and out of holes, shall be placed with winch. Do not rock the trees in holes to raise them.
12. Shrub planting (see planting details): all shrubs to be potted/planted with a mix of 75% existing soil removed from excavation and 25% compost, blended prior to backfilling holes. When hole is two-thirds full, shrubs shall be watered thoroughly and water left to soak in before proceeding.
13. Mulching: all tree and shrub planting beds to receive a 3" deep layer of high-quality shredded hardwood bark mulch (not environmental or wood chips). Mulch shall be uniform in size, color, quality and overall appearance. Mulch shall be free of debris, large wood chunks, soil, rocks, weeds, invasive plant parts or seeds and any other debris and weeds and large grubs. All permanent and seasonal grass planting areas to receive a 2" layer of mulch and lawn and groundcover areas a 1-2" layer of the same mulch. Do not mulch annual flower beds (if applicable). Do not allow mulch to contact plant stems and tree trunks.
14. Edging: edge all planting beds with a 4" deep spaced edge (shovel cut or mechanical). Bedlines are to be cut crisp, as per plan. A clean definition between lawn area and plant bed is required.
15. Plant bed preparation: the soil in all perennial, ornamental grass, lawn and groundcover areas shall be amended with compost prior to plant installation. Spread a 2" layer of compost (per note below) on top of clean topsoil and rototill to a depth of approximately 8".
16. Compost shall be stable, and weed-free organic matter. It shall be resistant to further decomposition and free of compounds, such as ammonia and organic acids, in concentrations toxic to plant growth. The compost shall contain no pathogens or other chemical contaminants and meet the requirements of WisDNR 510.01 Compost Specification.
17. Lawn installation for all seeded turfgrass areas: remove / kill off any existing unwanted vegetation prior to seeding. Prepare the topsoil and seed bed by removing all surface stones 1" or larger and grading lawn areas to finish grade. Apply a starter fertilizer and specified seed, ensure good seed to soil contact, and provide mulch covering suitable to germinate and establish turf. Provide seed and fertilizer mix information to general contractor prior to installation. Erosion control measures are to be used on swales and steep grades. All perennial and seasonal grass planting areas may vary at the discretion of the landscape contractor on whether responsibility to establish and guarantee a smooth, uniform, quality turf, if a straw mulch is used as a mulch covering, a tackifier may be necessary to avoid wind movement. Marsh hay containing seed canary grass is not acceptable as a mulch covering.
- An acceptable quality turf is defined as having no more than 5% of the total area with bare spots larger than 1/2 square foot and uniform coverage throughout all turf areas.
18. Seed mix for lawn areas - use only a premium quality seed mix. Premium blend seed mix (or equivalent): 50% blended bluegrass, 25% creeping red fescue, 25% perennial ryegrass applied at 5 lbs per 1,000 SF or at recommended rates for supplier. Provide seed specifications to general contractor prior to installation.
19. Lawn installation for all sodded turfgrass areas (OPTIONAL): remove / kill off any existing unwanted vegetation prior to sodding. Prepare the topsoil and seed bed by removing all surface stones 1" or larger and grading lawn areas to finish grade, allowing for thickness of sod. Use only premium sod blend according to TPI (revised 1995) and ASPA standards. Install sod uniformly with staggered joints, laid tightly end to end and side to side. Roll sod with a walk behind roller and water immediately upon completion due to failure to comply with specified requirements. Replacements shall be plants of the same variety specified on the plan and closely match adjacent turf. Landscape contractor shall repair and re-sod any eroded, sunken or bare spots (larger than 3 square feet) until acceptance by owner.
20. The landscape contractor is responsible for the watering and maintenance of all landscape areas, at time of planting and throughout construction until the substantial completion of the installation and acceptance by the owner. This includes all trees, shrubs, evergreens, perennials, ornamental grasses, and seeded slopes and turf grass areas. Maintenance includes mowing, weeding, watering, mulching, edging, pruning, deadheading, raking leaves / debris, sweeping up grass clippings, fertilizing and maintaining turf areas (including applying pre and post emergent herbicides), and any other needs that are required to keep the landscape healthy and well maintained.
21. Substantial Completion of Landscape: after the landscape has been installed, the landscape contractor is responsible to conduct a final review with the owner's representative and the general contractor to ensure that all plans and specifications have been met. After this review, the landscape will be considered to be installed in substantial completion unless otherwise noted by the owner's representative and/or general contractor. Any items missing or incomplete, shall be corrected within 30 days. The landscape contractor shall provide written watering and maintenance instructions for the new plantings and lawn to the owner.
22. Warranty and replacements: All plants (trees, evergreens, shrubs, perennials, ornamental grasses and groundcovers) shall be warranted by the landscape contractor (i.e. be in healthy and flourishing condition for a period of one year from the date of substantial completion). This assumes the owner performs required maintenance (i.e. regular watering) after substantial completion of the landscape. Only one replacement per plant will be required during the warranty period, except for losses or replacements due to failure to comply with specified requirements. Replacements shall be plants of the same variety specified on the plan and closely match adjacent specimens in size. The landscape contractor is responsible for keeping a documented record of which plants have been replaced during the warranty period.

[illegible]

Know what's below.
Call before you dig.

R.A.SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH, INC.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED.
THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO
ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING
THE EXPRESSED WRITTEN PERMISSION OF R.A.SMITH, INC.