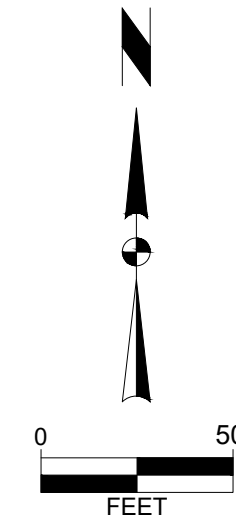


## SITE IMPERVIOUS / PERVIOUS INFORMATION

TOTAL LOT AREA = 481,950 SF  
EXISTING IMPERVIOUS: 45,218 SF (9.38%% LOT COVERAGE)  
EXISTING PERVIOUS: 436,732 SF (90.62% LOT COVERAGE)

PROPOSED IMPERVIOUS: 24,437 SF (5.07% LOT COVERAGE)

TOTAL IMPERVIOUS: 69,655 SF (14.45% LOT COVERAGE)  
REMAINING PERVIOUS: 412,295 SF ( 85.55% LOT COVERAGE)

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# FIRE STATION 14 TRAINING - PHASE 1

**OVERALL LOT IMPERVIOUS / PERVIOUS AREA**

**SNYDER & ASSOCIATES, INC.**

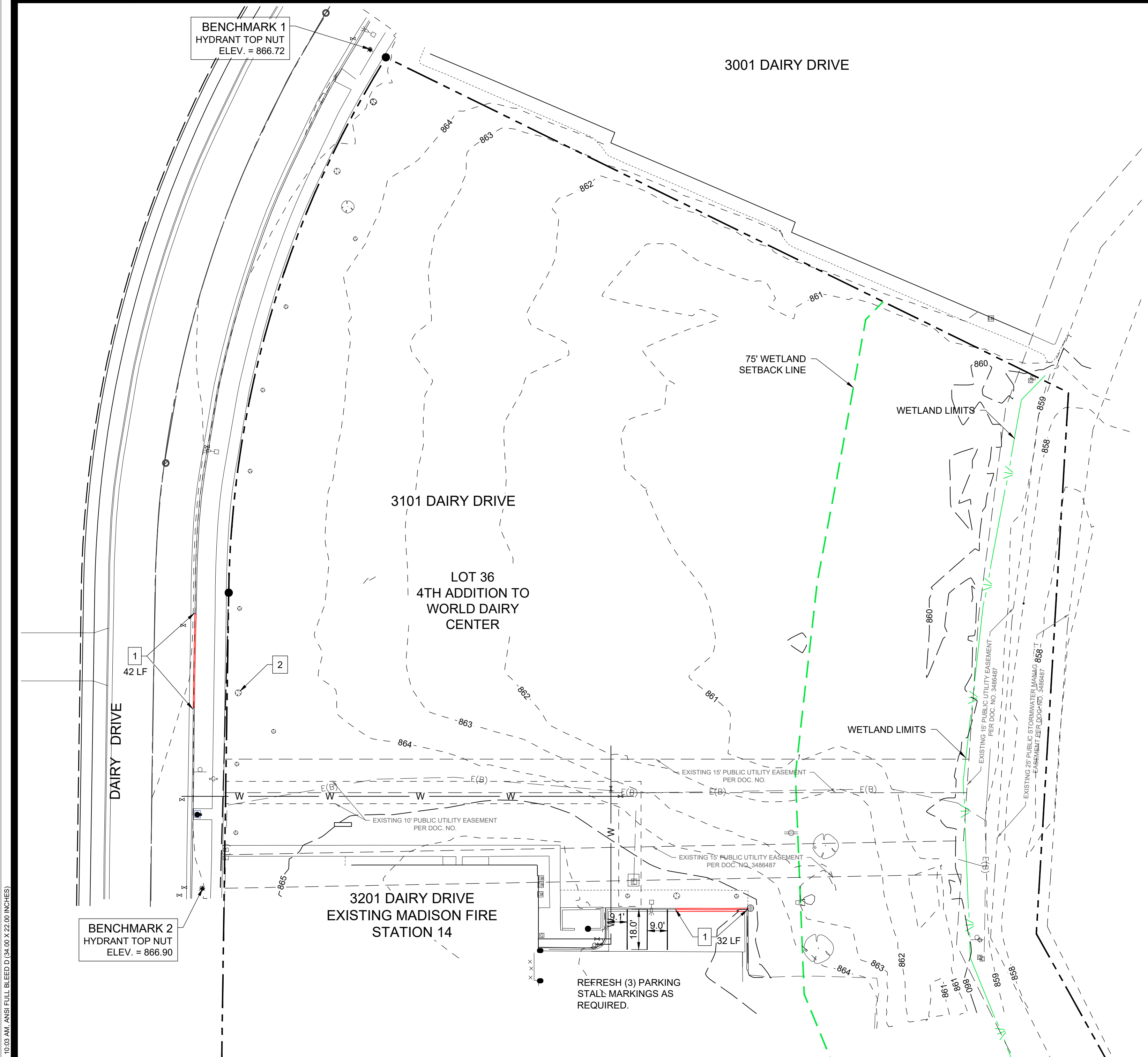


Project No: 123.0461.30

Sheet C 200



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DEMOLITION KEYNOTES

- 1 SAW CUT AND REMOVE EXISTING CURB AND GUTTER  
2 REMOVE EXISTING TREE

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE.

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.

QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D INFORMATION.

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

LEGEND

FEATURES

- Section Corner  
1/2" Rebar, Cap # 11579  
(Unless Otherwise Noted)  
ROW Marker  
ROW Rail  
Control Point  
Bench Mark  
Platted Distance  
Measured Bearing & Distance  
Recorded As  
Deed Distance  
Calculated Distance  
Minimum Protection Elevation  
Centerline  
Section Line  
1/4 Section Line  
1/4 1/4 Section Line  
Easement Line

FOUND

- 1225.25  
X  
P  
M  
R  
D  
C  
MPE

FEATURES

- Spot Elevation  
Contour Elevation  
Fence (Barbed, Field, Hog)  
Fence (Chain Link)  
Fence (Wood)  
Fence (Silt)  
Tree Line  
Tree Stump  
Deciduous Tree \ Shrub  
Coniferous Tree \ Shrub  
Communication  
Overhead Communication  
Fiber Optic  
Underground Electric  
Overhead Electric  
Gas Main with Size  
High Pressure Gas Main with Size  
Water Main with Size  
Sanitary Sewer with Size  
Duct Bank  
Test Hole Location for SUE w/ID

EXISTING

- 1225.25  
X  
P  
M  
R  
D  
C  
MPE

(\*) Denotes the survey quality service level for utilities

Sanitary Manhole

- Storm Sewer with Size  
Storm Manhole  
Single Storm Sewer Intake  
Double Storm Sewer Intake  
Fire Hydrant  
Fire Hydrant on Building  
Water Main Valve  
Water Service Valve  
Well  
Utility Pole  
Guy Anchor  
Utility Pole with Light  
Utility Pole with Transformer  
Street Light  
Yard Light  
Electric Box  
Electric Transformer  
Traffic Sign  
Communication Pedestal  
Communication Manhole  
Communication Handhole  
Fiber Optic Manhole  
Fiber Optic Handhole  
Gas Valve  
Gas Manhole  
Gas Apparatus  
Fence Post or Guard Post  
Underground Storage Tank  
Above Ground Storage Tank  
Sign  
Satellite Dish  
Mailbox  
Sprinkler Head  
Irrigation Control Valve

- ST(\*)

FIRE STATION 14 TRAINING - PHASE 1

EXISTING SITE AND REMOVALS

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC. |



Project No: 123.0461.30

Sheet C 201

5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

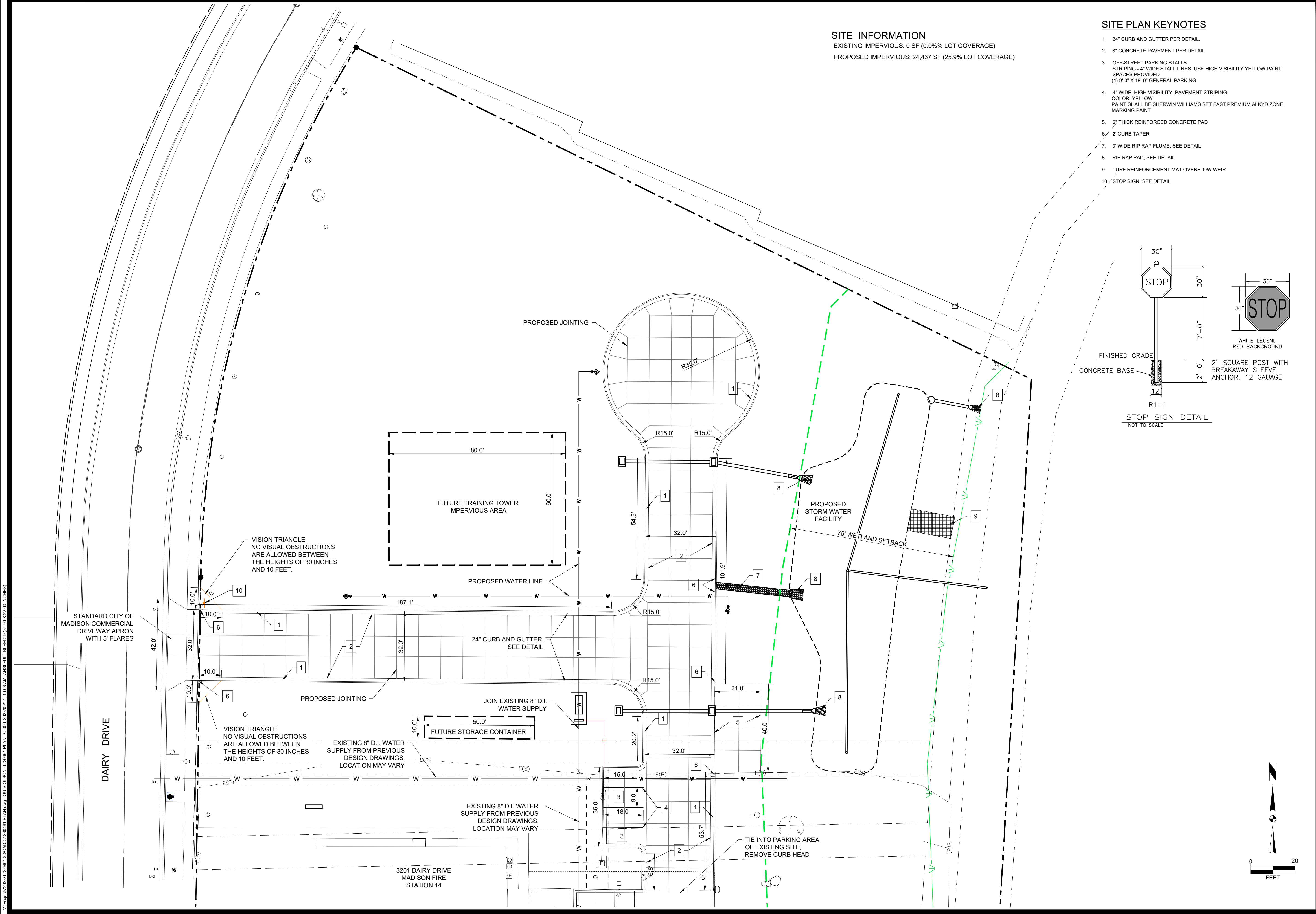
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Project No: 123.0461.30

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Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	



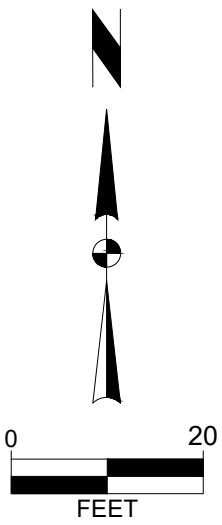
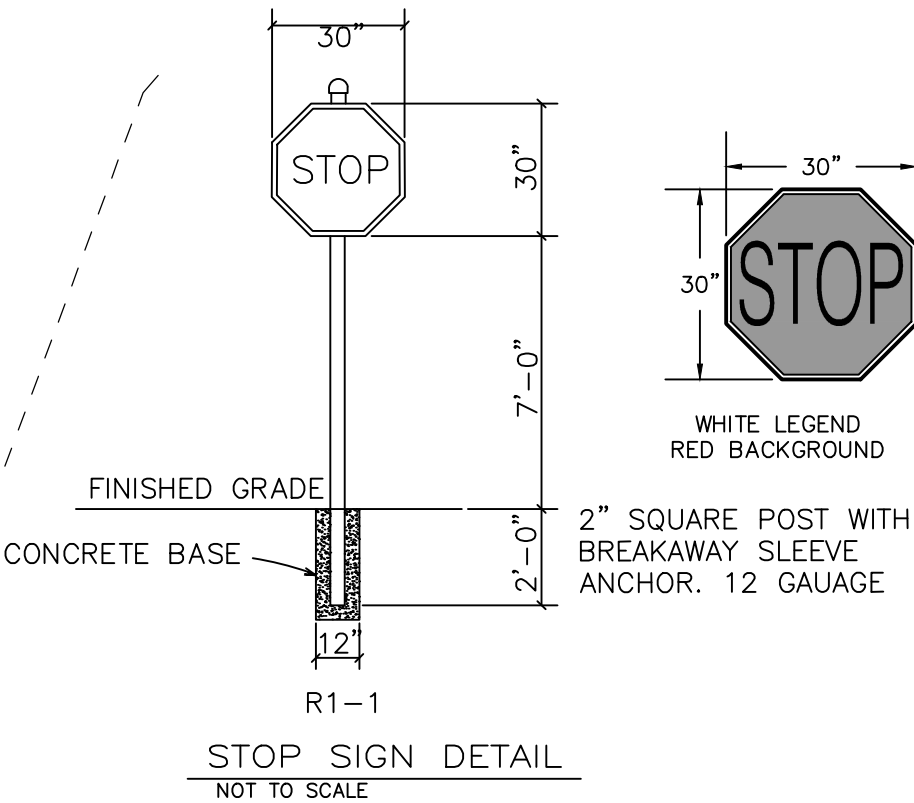
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**SITE INFORMATION**  
EXISTING IMPERVIOUS: 0 SF (0.0% LOT COVERAGE)  
PROPOSED IMPERVIOUS: 24,437 SF (25.9% LOT COVERAGE)

**SITE PLAN KEYNOTES**

1. 24" CURB AND GUTTER PER DETAIL.
2. 8" CONCRETE PAVEMENT PER DETAIL.
3. OFF-STREET PARKING STALLS  
STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY YELLOW PAINT.  
SPACES PROVIDED  
(4) 9'-0" X 18'-0" GENERAL PARKING
4. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING  
COLOR: YELLOW  
PAINT SHALL BE SHERWIN WILLIAMS SET FAST PREMIUM ALKYD ZONE MARKING PAINT
5. 6" THICK REINFORCED CONCRETE PAD
6. 2' CURB TAPER
7. 3' WIDE RIP RAP FLUME, SEE DETAIL
8. RIP RAP PAD, SEE DETAIL
9. TURF REINFORCEMENT MAT OVERFLOW WEIR
10. STOP SIGN, SEE DETAIL



**FIRE STATION 14 TRAINING - PHASE 1**

**SITE PLAN**



Project No: 123.0461.30

Sheet C 300

MADISON, WISCONSIN

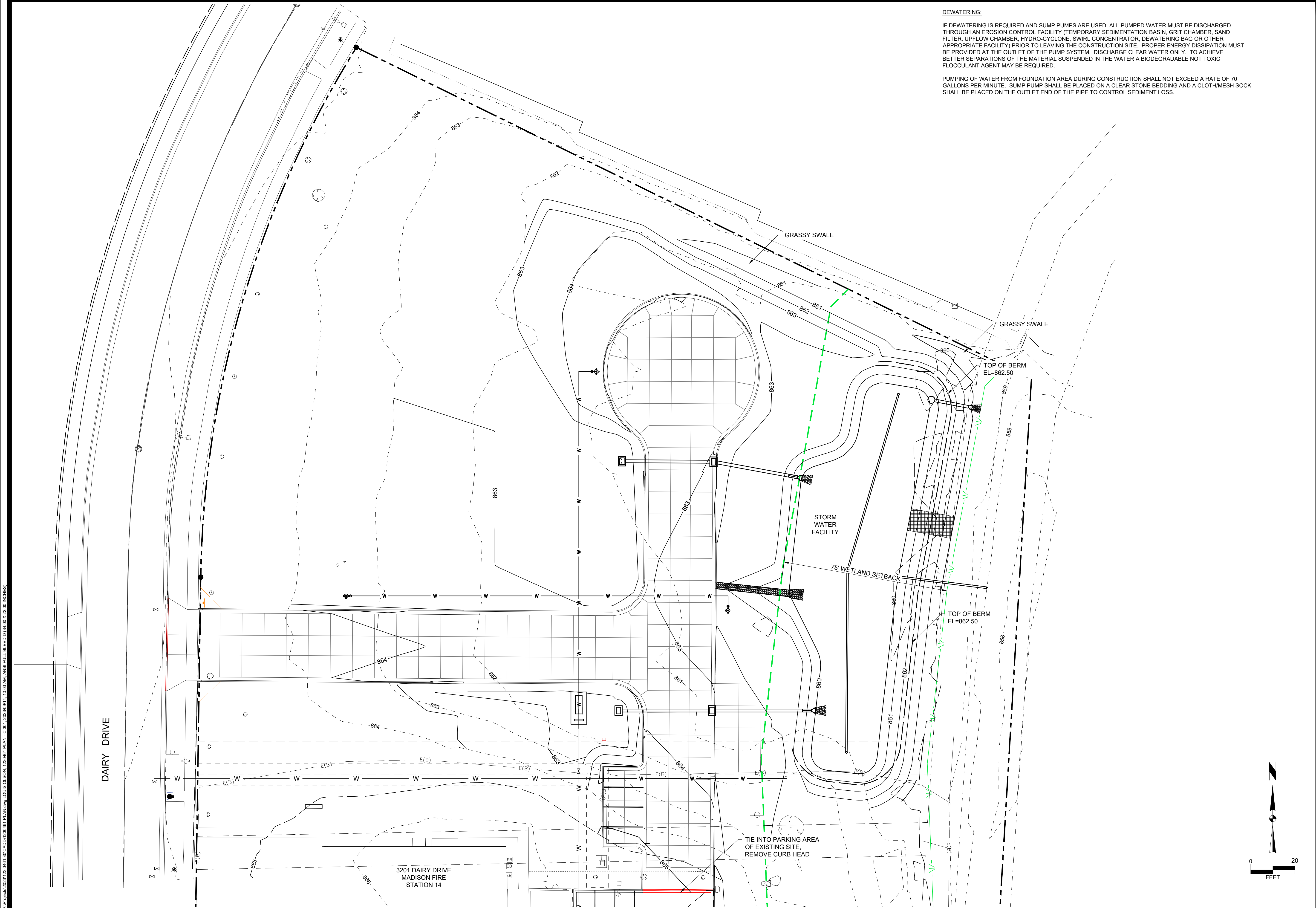
**SNYDER & ASSOCIATES, INC.**

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608-838-0444 | www.snyder-associates.com

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Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	
Project No: 123.0461.30			Sheet C 300



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DEWATERING:

IF DEWATERING IS REQUIRED AND SUMP PUMPS ARE USED, ALL PUMPED WATER MUST BE DISCHARGED THROUGH AN EROSION CONTROL FACILITY (TEMPORARY SEDIMENTATION BASIN, GRIT CHAMBER, SAND FILTER, UPFLOW CHAMBER, HYDRO-CYCLONE, SWIRL CONCENTRATOR, DEWATERING BAG OR OTHER APPROPRIATE FACILITY) PRIOR TO LEAVING THE CONSTRUCTION SITE. PROPER ENERGY DISSIPATION MUST BE PROVIDED AT THE OUTLET OF THE PUMP SYSTEM. DISCHARGE CLEAR WATER ONLY. TO ACHIEVE BETTER SEPARATIONS OF THE MATERIAL SUSPENDED IN THE WATER A BIODEGRADABLE NOT TOXIC FLOCCULANT AGENT MAY BE REQUIRED.

PUMPING OF WATER FROM FOUNDATION AREA DURING CONSTRUCTION SHALL NOT EXCEED A RATE OF 70 GALLONS PER MINUTE. SUMP PUMP SHALL BE PLACED ON A CLEAR STONE BEDDING AND A CLOTHMESH SOCK SHALL BE PLACED ON THE OUTLET END OF THE PIPE TO CONTROL SEDIMENT LOSS.

FIRE STATION 14 TRAINING - PHASE 1

OVERALL GRADING PLAN

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC. |



Project No: 123.0461.30

Sheet C 301

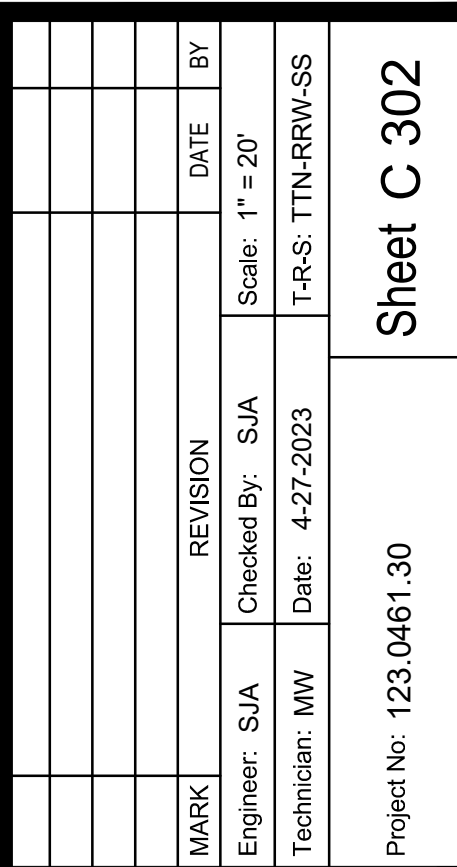
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MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

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Sheet C 301

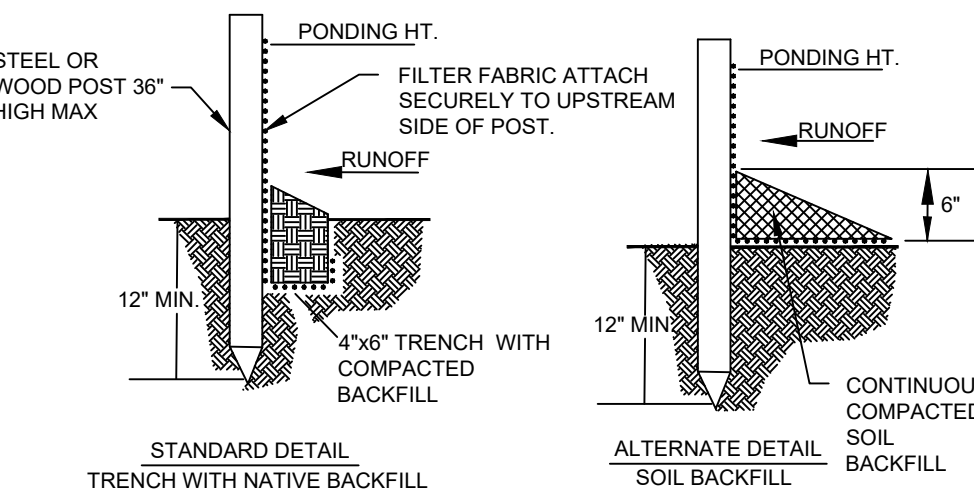
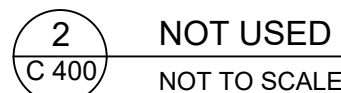
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Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	



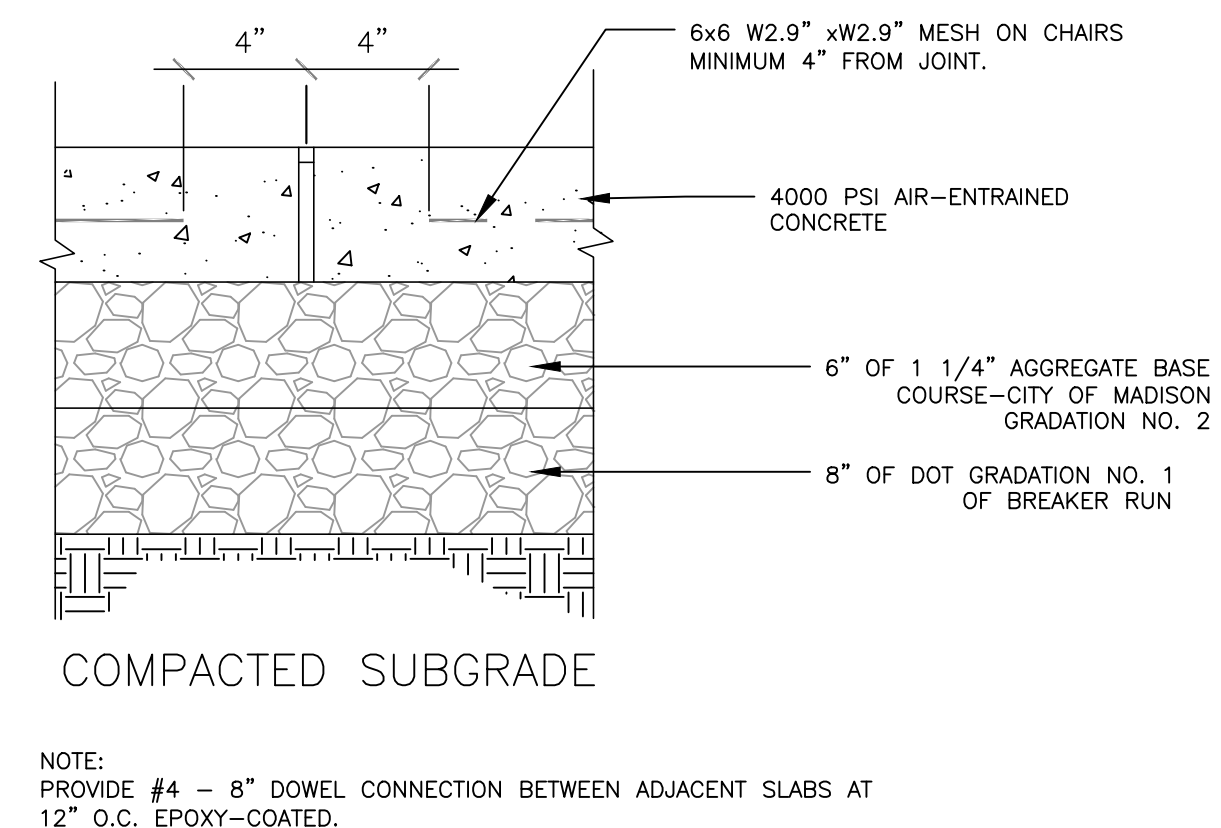
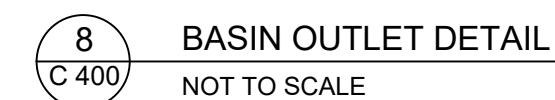
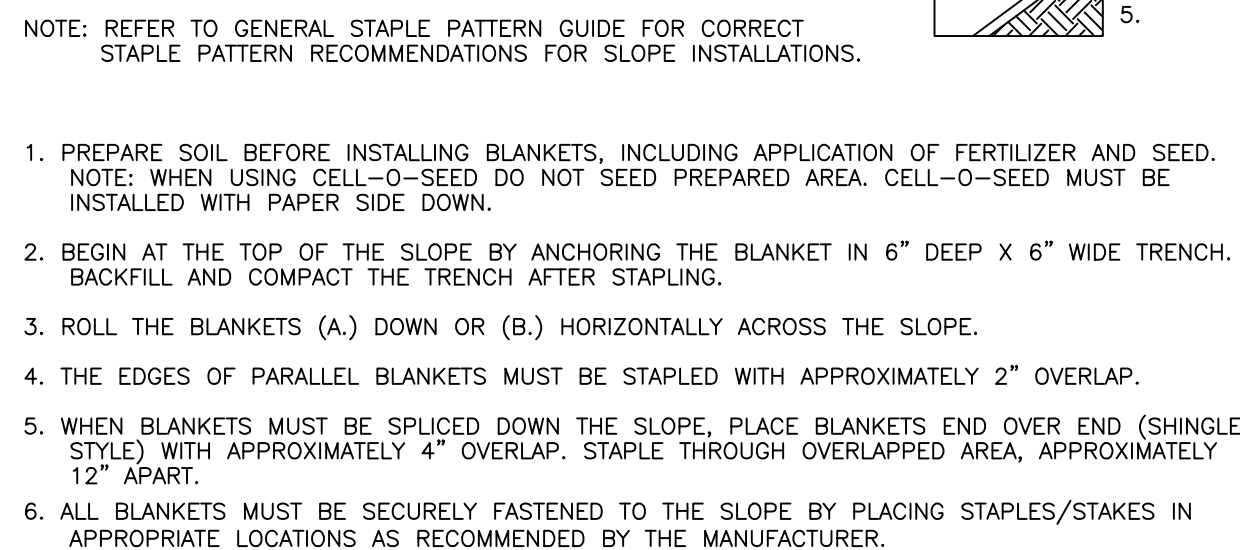
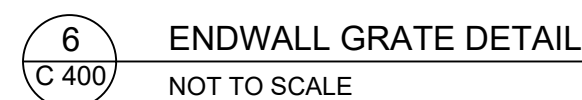
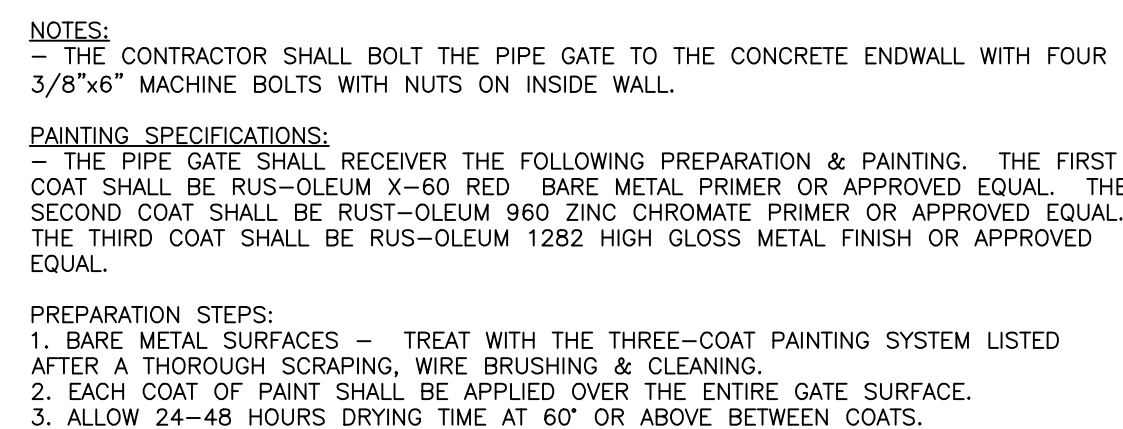


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Sheet C 302





- 
- ROLL JOINTS**

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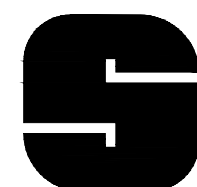
MADISON, WISCONSIN

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# FIRE STATION 14 TRAINING - PHASE 1

## MISCELLANEOUS DETAILS

**SNYDER & ASSOCIATES, INC.**



**SNYDER**  
**& ASSOCIATES**

Project No: 123.0461.30

Sheet C 400

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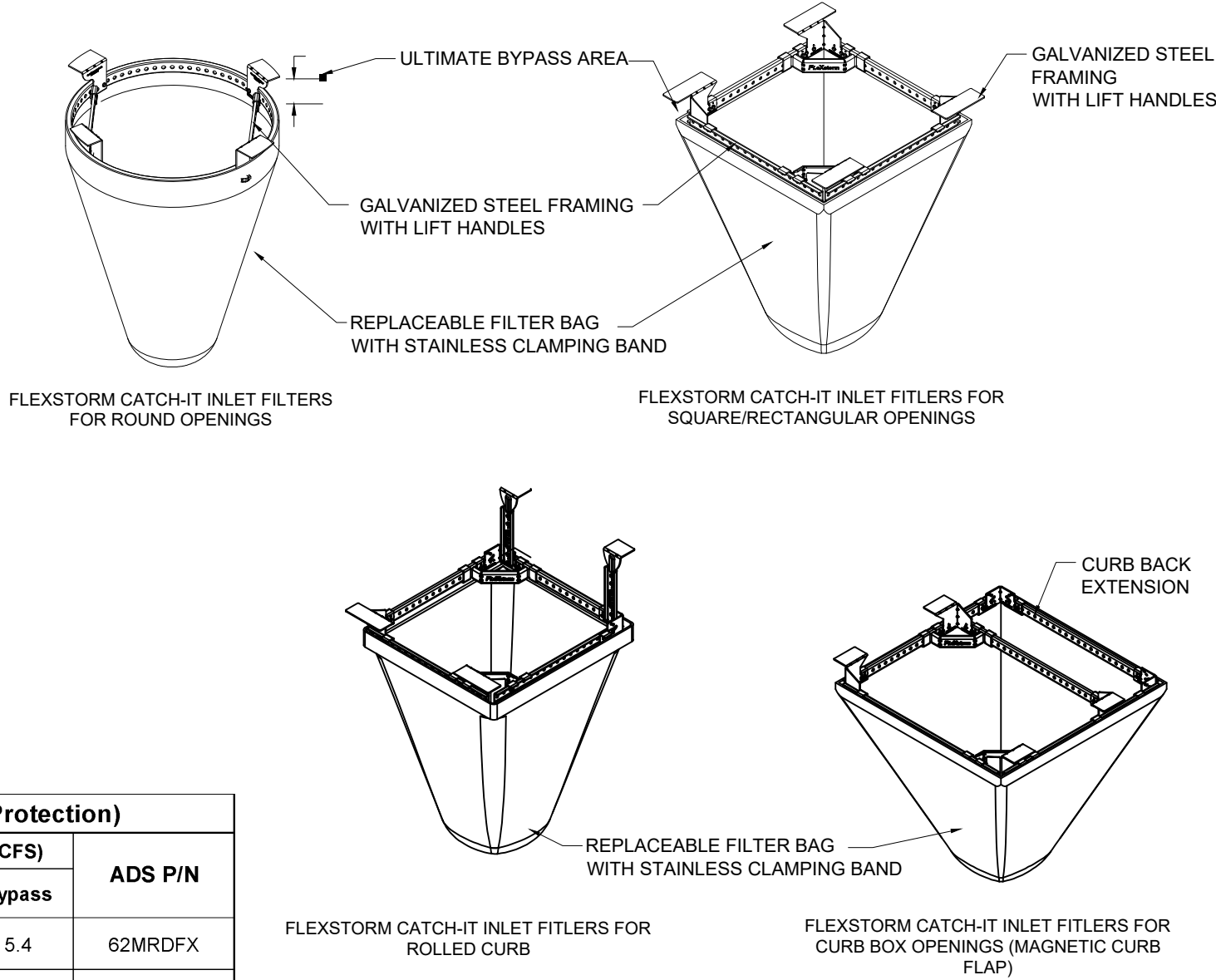
\*FLOW RATINGS SHOWN ARE 50% MAXIMUM

NOTES:

- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
- TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
- UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)

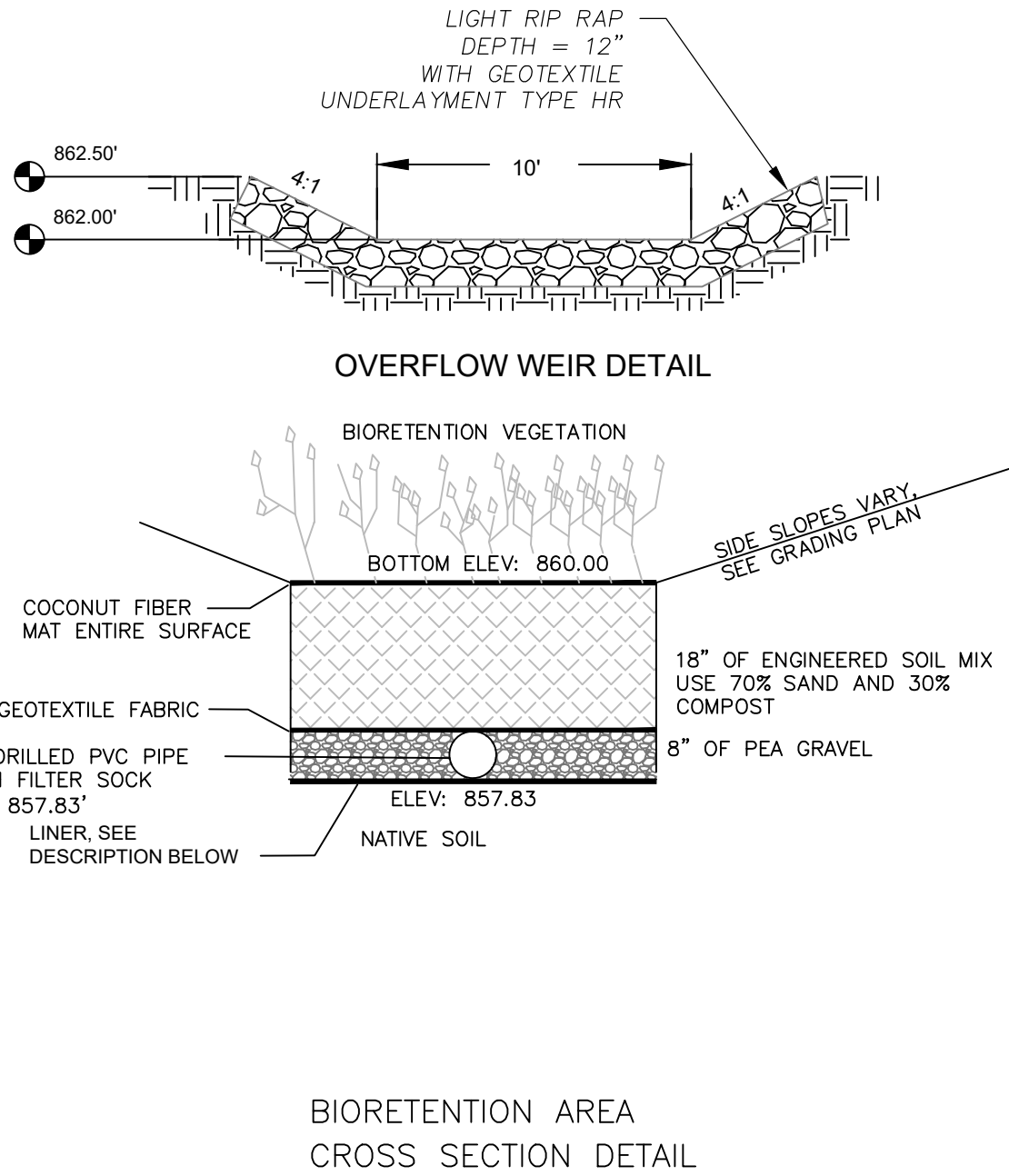
INSTALLATION:

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE



Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)							
Neenah Casting	Inlet Type	Grate Size	Opening Size	Bag Cap (ft²)	Flow Ratings (CFS)		ADS P/N
					FX	Bypass	
1040/1642/1733	Round	26	24	1.9	1.5	5.4	62MRDFX
3067 w/FLAP	Curb Box	35.25 x 17.75	33.0 x 15.0	3.8	1.9	5.6	62LCBEXTFX
3067 EXTENDED BACK	Curb Box	35.25 x 17.75	33.0 x 15.0	4.4	2.3	5.8	62LCBEXTFX
3246A	Curb Box	35.75 x 23.875	33.5 x 21.0	4.2	2.2	3.3	62LCBFX
3030	Square/Rect (SQ)	23 x 16	20.5 x 13.5	1.6	1.4	2.2	62MCBFX
3067-C	Square/Rect (SQ)	35.25 x 17.75	33 x 15	3.2	2.0	5.2	62LSQFX

1 C 401 INLET PROTECTION DETAIL  
NOT TO SCALE

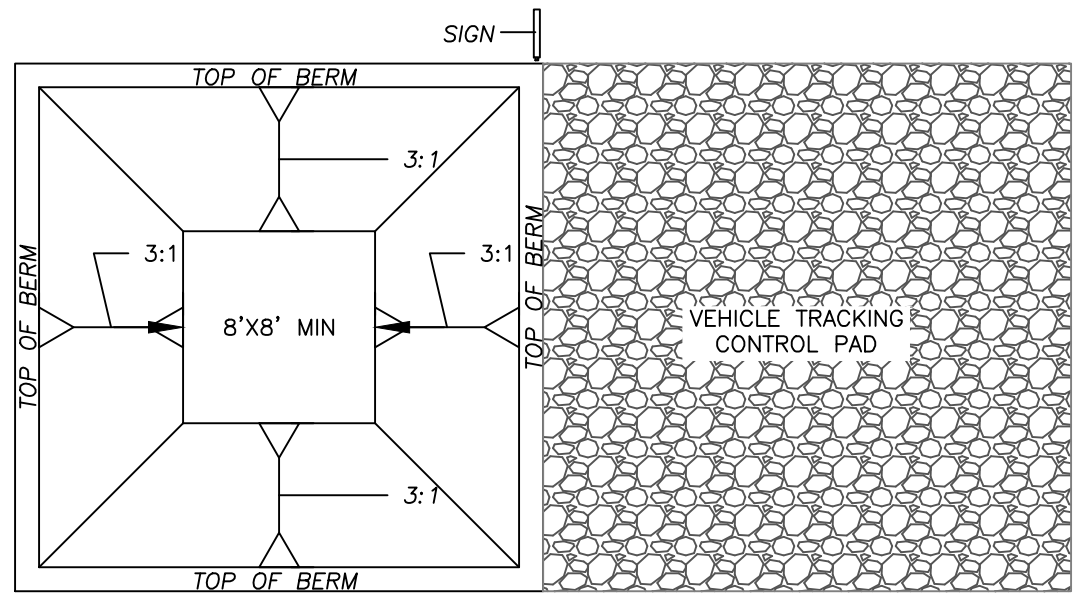


- NOTES:
- THE LINER AT THE BOTTOM OF THE BIORETENTION AREA CAN BE CONSTRUCTED OF CLAY OR A SYNTHETIC LINER. LINER MUST FOLLOW THE SPECIFICATIONS BELOW.
  - CLAY LINER SHALL BE TWO FEET THICK WITH 50% FINES AND FOLLOW NRCS WISCONSIN CONSTRUCTION SPECIFICATION 300, CLAY LINERS.
  - HDPE, PVC, OR PPL LINERS SHALL BE 40 MILS THICK AND FOLLOW NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING

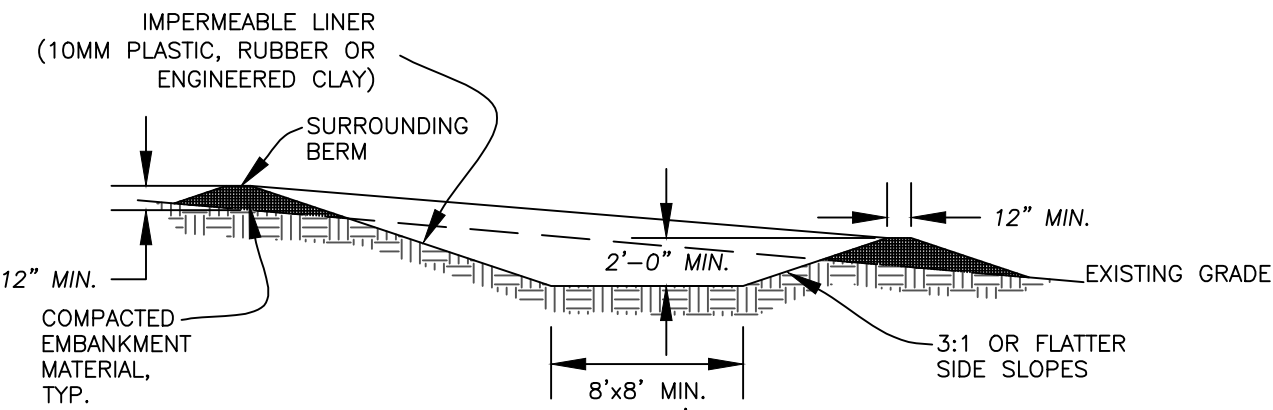
3 C 401 BIORETENTION BASIN DETAILS  
NOT TO SCALE

BIORETENTION NOTES

- BIORETENTION SHALL CONFORM TO WIS. DNR TECH STANDARD 1004.
- ENGINEERED SOIL SHALL CONSIST OF 70%-85% SILICA SAND AND 15%-30% COMPOST WITH A PH OF 5.5-6.5
- BIORETENTION BASINS SHALL BE EXCAVATED AND USED AS SEDIMENT TRAPS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BASINS SHALL BE EXCAVATED TO ELEVATION 858.00 AND THEN THE LINER SHALL BE INSTALLED AND ENGINEERED SOIL SHALL BE PLACED TO WITHIN THREE INCHES OF FINAL GRADE. ONCE THE ENGINEERED SOIL IS PLACED, THREE INCHES OF HARDWOOD MULCH SHALL BE ADDED ON TOP OF THE ENGINEERED SOIL.
- SPECIFIC SPECIES OR CONTAINER SIZE SUGGESTED SUBSTITUTIONS SHALL BE PRESENTED TO CONSULTANT ALONG WITH THE REASONS FOR THE SUGGESTIONS. WITH CONSULTANT OR PROJECT ENGINEER'S APPROVAL, SUBSTITUTIONS MAY BE MADE.
- LIVE PLANTS CAN BE PLANTED IN THE FIELD DURING THE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY CONSULTANT OR ENGINEER. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED.
- PLANT SPECIES SHALL BE SELECTED FROM THE FOLLOWING LIST:  
FROBS; MARSH MILKWEED, HEATH ASTER, NEW ENGLAND ASTER, WILD WHITE INDIGO, SPOTTED JOE PYE WEED, BONESET PRAIRIE BLAZING STAR, MARSH BLAZING STAR, CARDINAL FLOWER, GREAT BLUE LOBELIA, WILD BERGAMOT, OBEDIENT PLANT, MOUNTAIN MINT, YELLOW CONEFLOWER, BLACK-EYED SUSAN, SWEET BLACK-EYED SUSAN, OHIO GOLDENROD, SPIDERWORT, BLUE VERVAIN AND IRONWEED.
- ALL PLANTED MATERIALS WILL BE WARRANTED BY INSTALLATION CONTRACTOR TO BE IN HEALTHY CONDITION WITH A REPLACEMENT GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF PLANTING.
- NATIVE PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY, CONSULTANT OR PROJECT ENGINEER WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
- PLANTS SHALL BE PLANTED IN THE BIORETENTION AREA AT A MINIMUM OF ONE PLANT PER EVERY 12" ON CENTER.
- UPON COMPLETION OF EXCAVATING & GRADING OPERATIONS, A LOOSE, FRIABLE PLANT BED SHALL BE PREPARED FOR INSTALLATION OF NATIVE PLANT PLUGS.
- CARE SHALL BE TAKEN TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION ACTIVITY. BY EXAMPLE OF A STANDARD SOIL PENETROMETER (COMPACTION TESTER), THE TOPSOIL COMPACTION READINGS SHALL BE LESS THAN 200 PSI AT THE 0-6 INCH DEPTH AND LESS THAN 250 PSI AT THE 6-18 INCH DEPTHS IN ALL AREAS TO BE PLANTED.
- UNDULATIONS OR IRREGULARITIES IN THE PLANT BED WHICH WOULD INTERFERE WITH A CONSISTENT SEEDING OPERATION SHALL BE LEVELED PRIOR TO FINAL SEEDING.
- FINAL PLANTING AREA SHOULD BE GRADED SUCH THAT THE AREAS TO BE PLANTED SHALL CONSIST OF A SMOOTH, FREE DRAINING, EVEN SURFACE WITH A LOOSE POROUS TEXTURE.
- SIDE SLOPES OF BASIN SHALL BE PLANTED WITH NO MOW MIX PER THE CITY OF MADISON STANDARD SPECIFICATIONS.



PLAN VIEW



TYPICAL SECTION

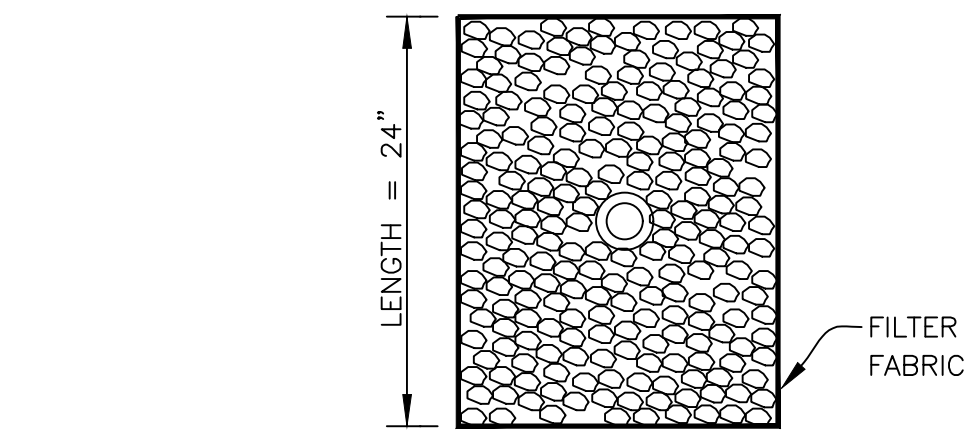
CONCRETE WASHOUT AREA INSTALLATION NOTES

- SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
- THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

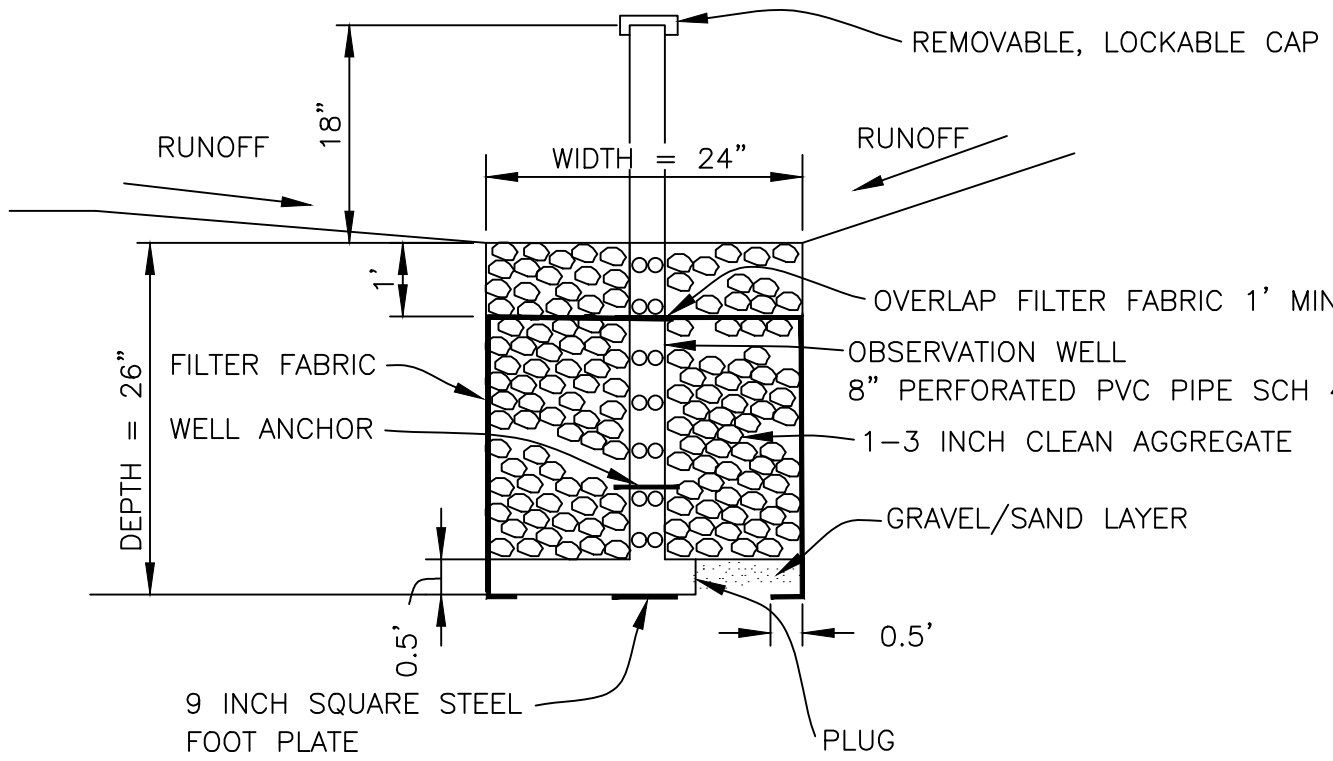
CONCRETE WASHOUT AREA MAINTENANCE NOTES

- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
- INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.

2 C 401 CONCRETE WASHOUT DETAIL  
NOT TO SCALE



PLAN VIEW

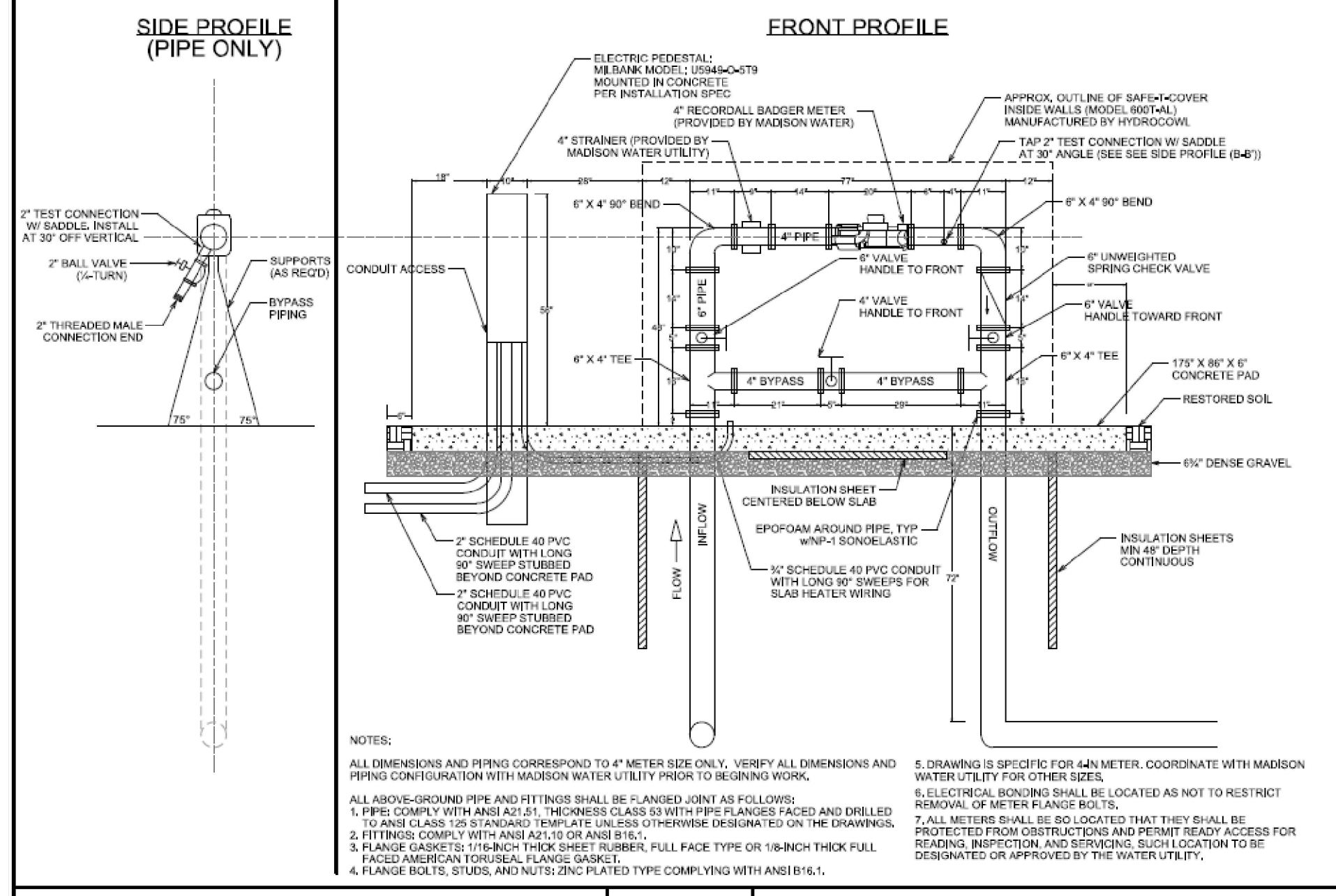


SECTION VIEW

4 C 401 CLEANOUT / OBSERVATION WELL  
NOT TO SCALE

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.33  
REVISED: 12/2018



- NOTES:
- ALL DIMENSIONS AND PIPING CORRESPOND TO 4" METER SIZE ONLY. VERIFY ALL DIMENSIONS AND PIPING CONFIGURATION WITH MADISON WATER UTILITY PRIOR TO BEGINNING WORK.
  - ALL ABOVE-GROUND PIPE AND FITTINGS SHALL BE PLANNED JOINT AS FOLLOWS:  
1. PIPE COMPLY WITH ANSI A21.01. THICKNESS CLASS 35 WITH PIPE FLANGES FACED AND DRILLED TO AND CLASS 15 STANDARD TEMPLATE UNLESS OTHERWISE DESIGNATED ON THE DRAWINGS.  
2. FITTINGS COMPLY WITH ANSI A21.10 OR ANSI B16.1.  
3. FLANGE GASKETS 1/16-INCH THICK SHEET RUBBER, FULL FACE TYPE OR 1/8-INCH THICK FULL FACED AMERICAN TORQUESEAL FLANGE GASKET.  
4. FLANGE BOLTS, STUDS, AND NUTS: ZINC PLATED TYPE COMPLYING WITH ANSI B16.1.
  - DRAWING IS SPECIFIC FOR AN METER. COORDINATE WITH MADISON WATER UTILITY FOR OTHER SIZES.
  - ELECTRICAL BONDING SHALL BE LOCATED AS NOT TO RESTRICT REMOVAL OF METER FLANGE BOLTS.
  - ALL METERS SHALL BE SO LOCATED THAT THEY SHALL BE PROTECTED FROM OBSTRUCTIONS AND PERMIT READY ACCESS FOR READING, INSPECTION AND SERVICING. SUCH LOCATION TO BE DESIGNATED OR APPROVED BY THE WATER UTILITY.

CITY OF MADISON  
WATER UTILITY

WATER METER ENCLOSURE  
(DIMENSIONS/PIPING SHOWN FOR 4" METER ONLY)

5 C 401 WATER METER ENCLOSURE  
NOT TO SCALE

FIRE STATION 14 TRAINING - PHASE 1

MISCELLANEOUS DETAILS

SNYDER & ASSOCIATES, INC. |



Project No: 123.0461.30

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608-838-0444 | [www.snyder-associates.com](http://www.snyder-associates.com)

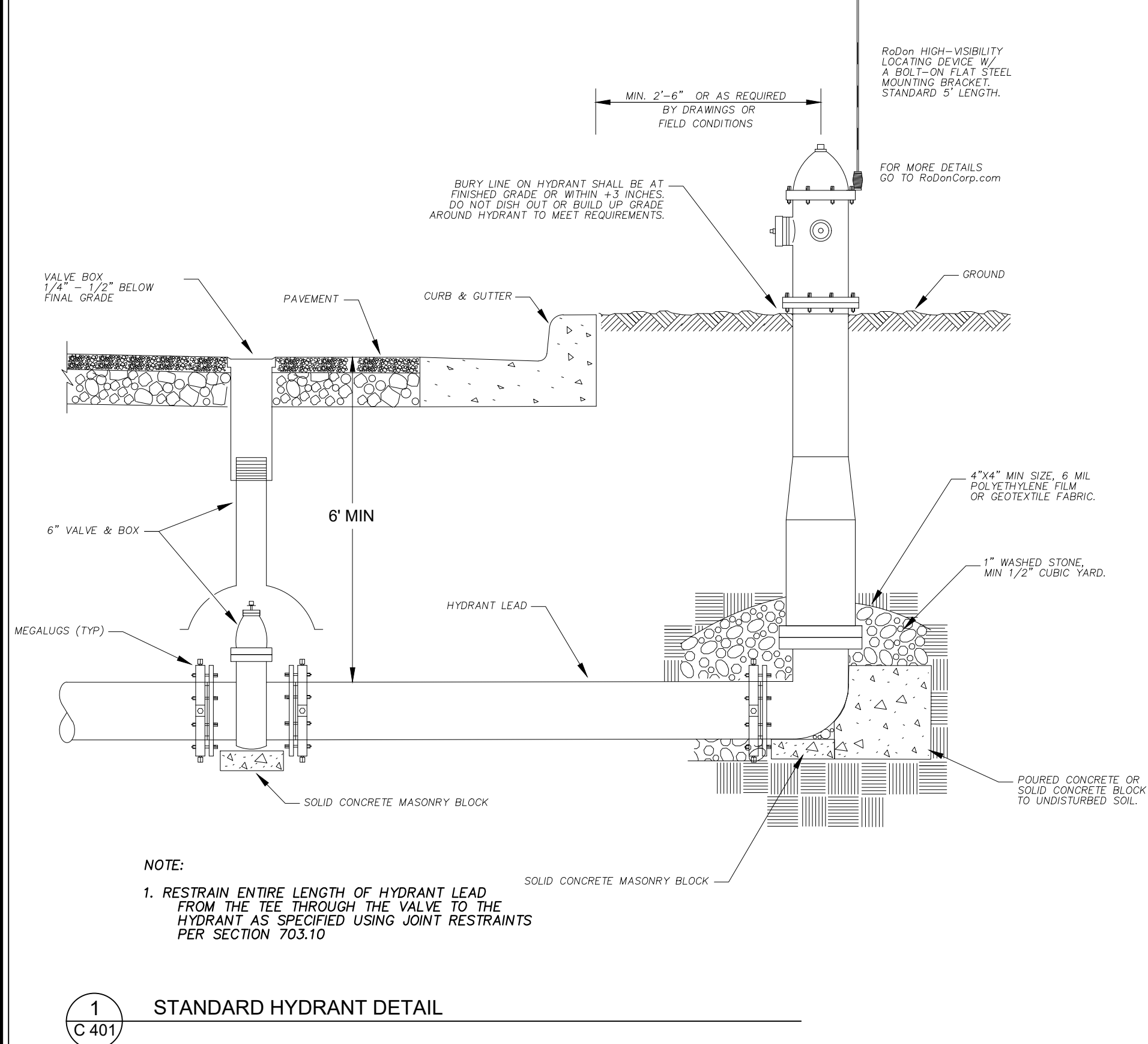
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Project No: 123.0461.30

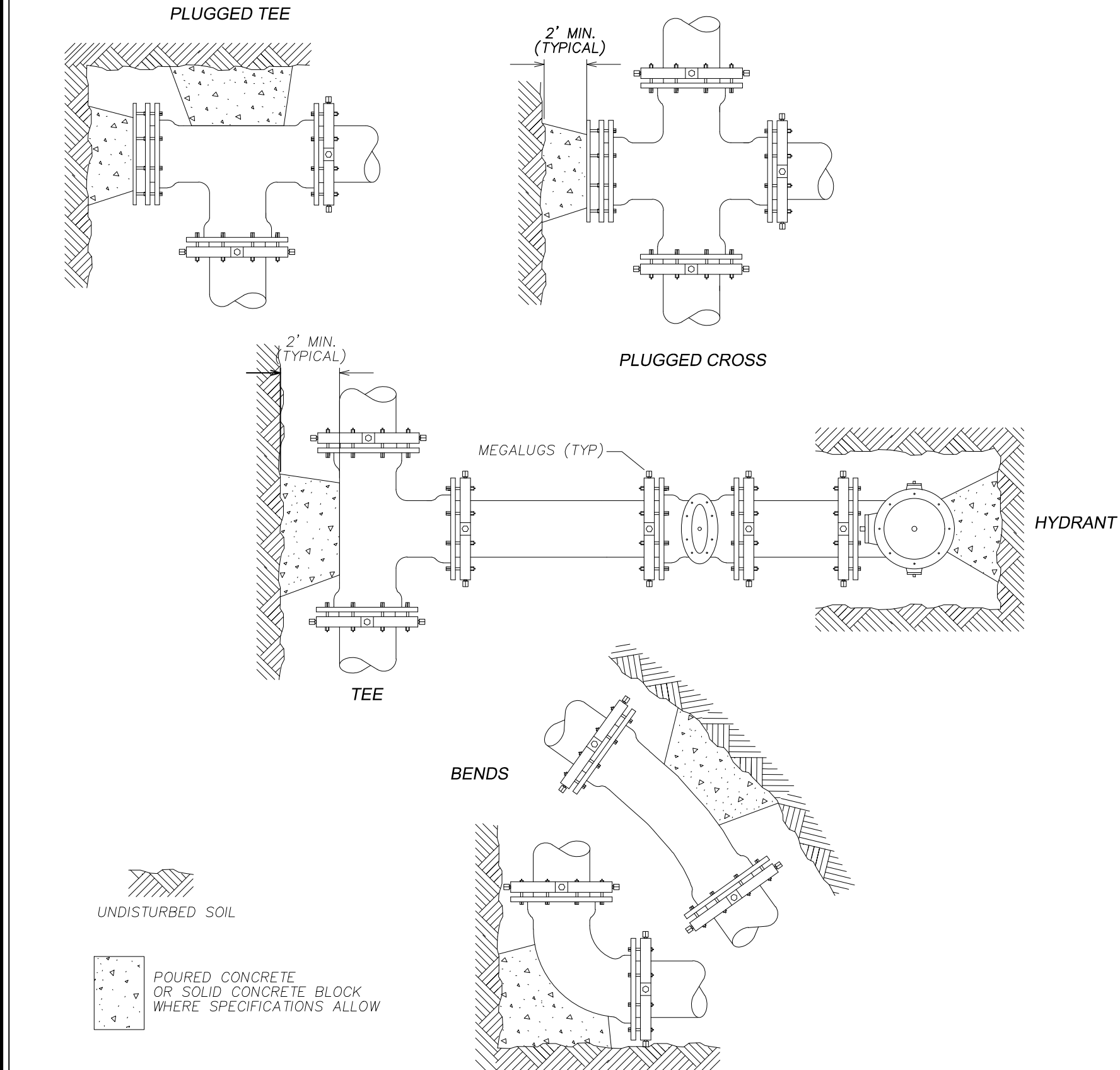


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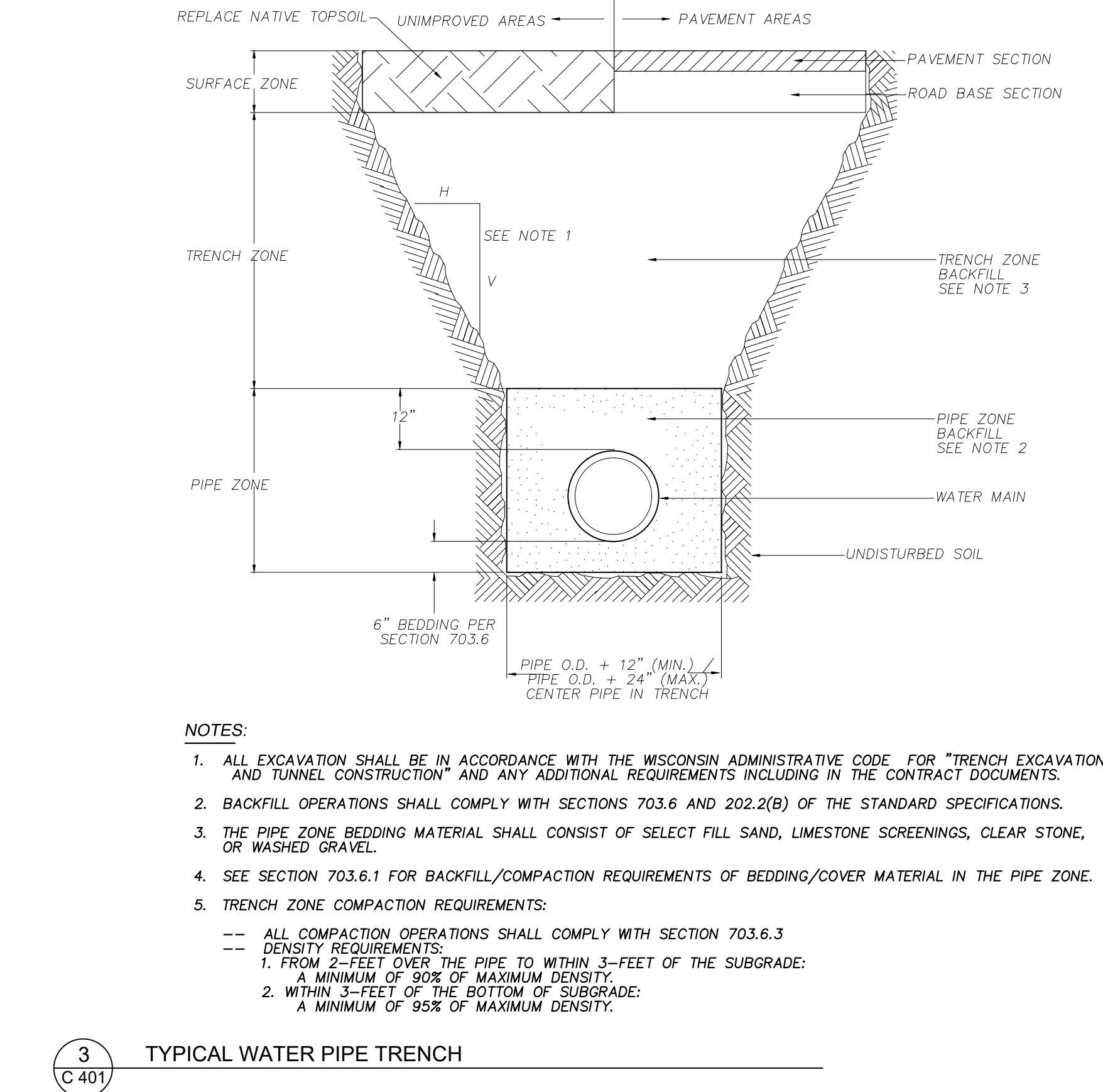
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STANDARD HYDRANT DETAIL



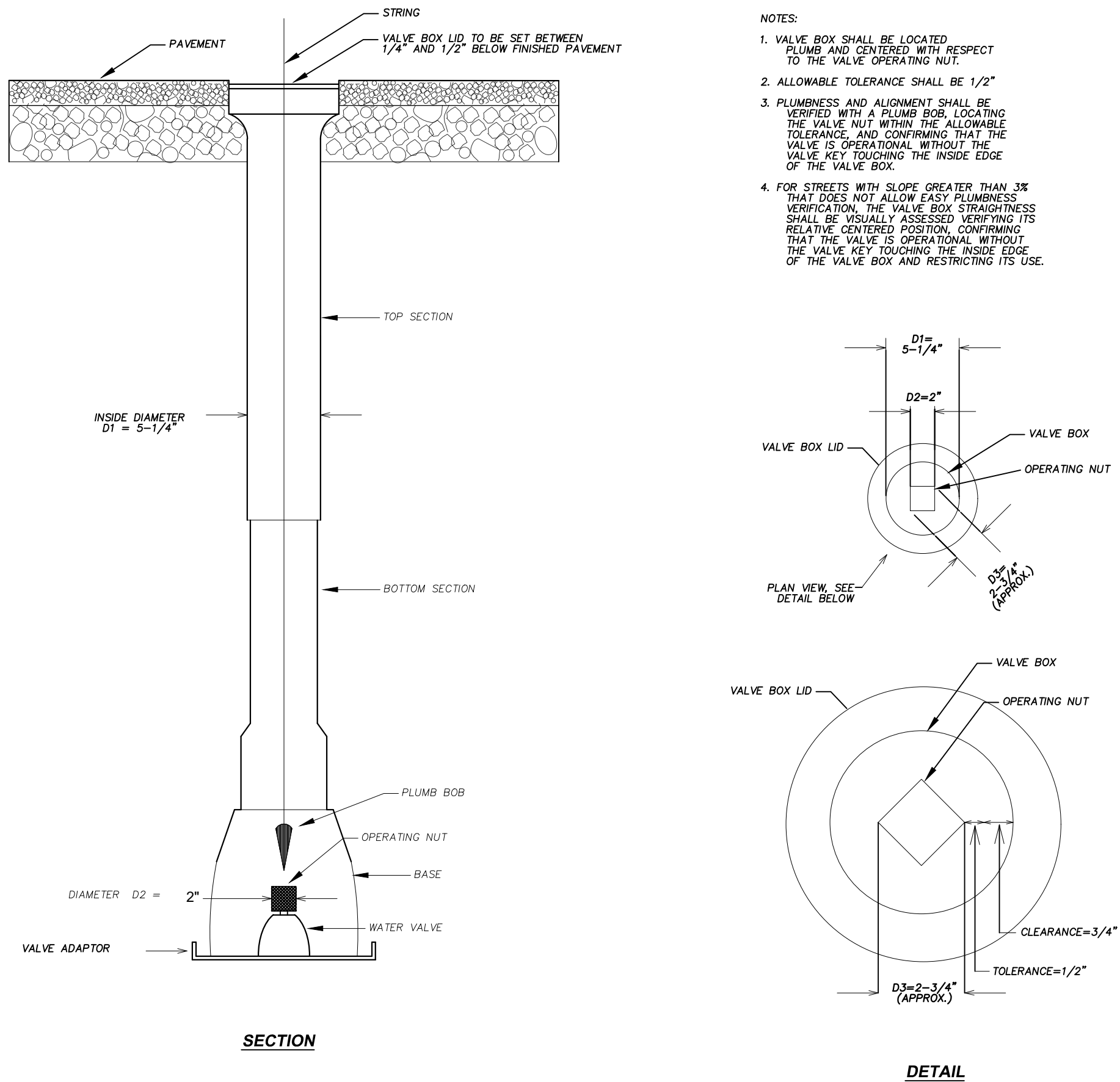
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C 401

CONCRETE THRUST BLOCK DETAILS



3  
C 401

TYPICAL WATER PIPE TRENCH



4  
C 401

WATER VALVE BOX DETAIL

FIELD INSTALLATION-POLYETHYLENE WRAP

**STEP-1**  
CLEAN SURFACE OF PIPE. CUT POLYETHYLENE TWO FEET LONGER THAN THE PIPE (8 MIL MIN.). PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH. DIG BELL HOLES AT JOINTS, LOWER PIPE.

**STEP-2**  
LIFT ENOUGH TO PULL THE TUBE OVER THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.

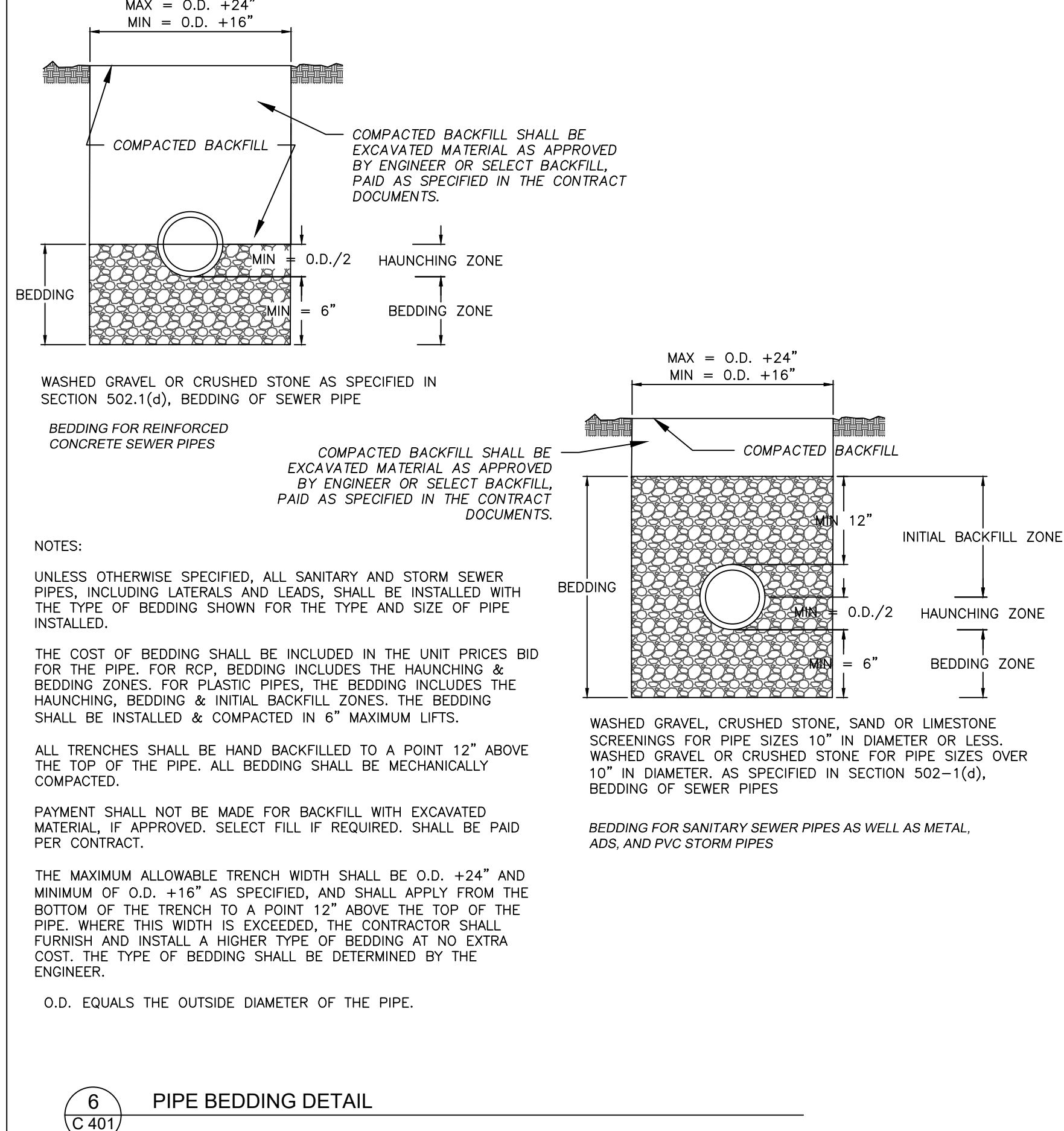
**STEP-3**  
ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROX. THREE FOOT INTERVALS. REPAIR ANY TEARS WITH TAPE OR SECURED POLYWRAP PATCHES. CAREFULLY BACKFILL TO AVOID DAMAGING THE POLYETHYLENE WRAP.

TAPPING POLYETHYLENE WRAP

**STEP-1**  
WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND PIPE WHERE TAPPING MACHINE WILL BE PLACED. MOUNT TAPPING MACHINE ON TAPPED AREA AND TAP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE WRAP. INSTALL CORPORATION STOP. INSPECT AREA FOR DAMAGE AND REPAIR IF NECESSARY. WRAP COPPER SERVICE LINE WITHIN THREE FEET OF PIPE LOCATION.

5  
C 401

FIELD INSTALLED POLY WRAP DETAIL



6  
C 401

PIPE BEDDING DETAIL

FIRE STATION 14 TRAINING - PHASE 1

WATER DETAILS

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC. |



Project No: 123.0461.30

Sheet C 402

5010 VOEGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

MARK  
Engineer: SJA  
Technician: MW

REVISION  
Checked By: SJA  
Date: 4-27-2023

BY  
DATE  
Scale: 1" = N/A  
T-R-S: TTN+RRW+SS

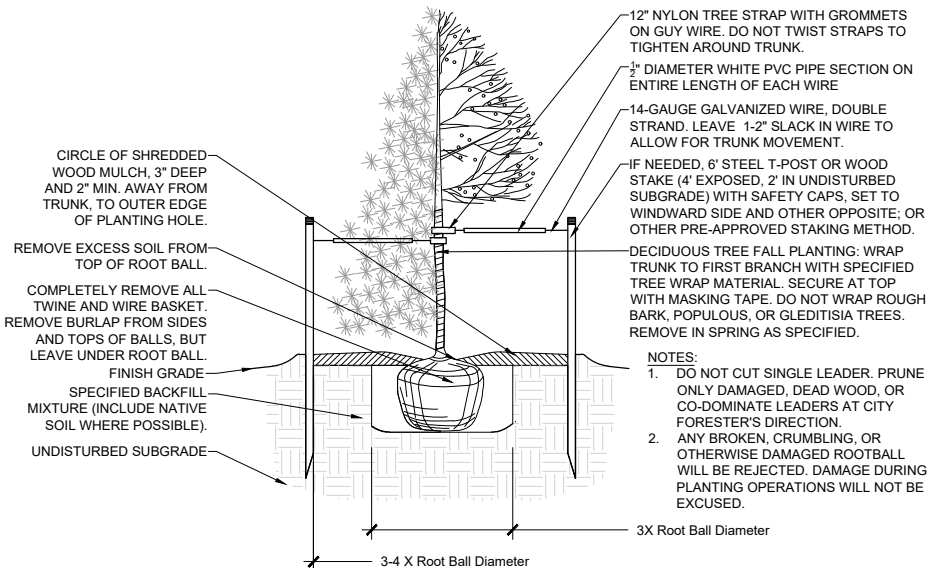
Project No: 123.0461.30

Sheet C 402



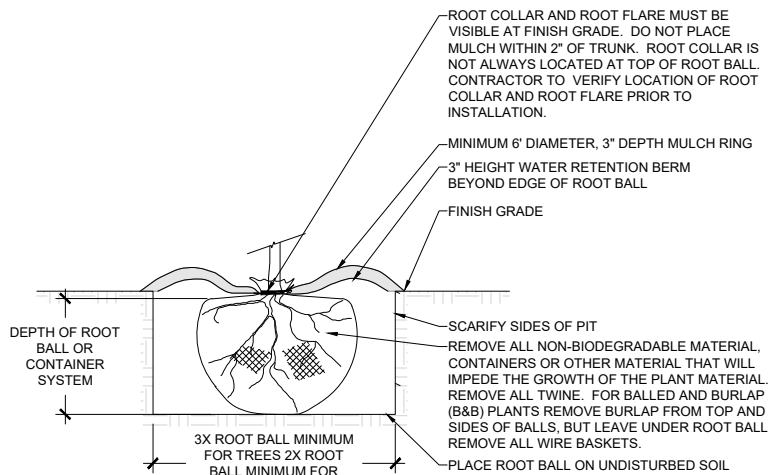
- UTILITY WARNING: THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
2. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
4. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).
5. MULCH SHALL NOT BE PLACED AROUND THE COLLAR OF SHRUB OR TREE. PROVIDE A MINIMUM OF 2" BETWEEN MULCH AND COLLAR OF SHRUB OR TREE.
6. ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS.
7. TREE OR SHRUB SHALL STAND PLUMB. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING.
8. LIVE PLANTS CAN BE PLANTED IN THE FIELD DURING THE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY LANDSCAPE ARCHITECT. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW, ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED ACCORDINGLY.
9. PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY. CONSULTANT OR LANDSCAPE ARCHITECT WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
10. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY, HEALTHY, FREE OF DISEASE AND INSECTS AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL ALSO BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT VIGOROUS GROWTH.
11. ALL PROPOSED PLANTS SHALL BE LOCATED AS SHOWN ON PLANS. ALL TREES TO BE PLANTED A MINIMUM DISTANCE OF 5 FEET FROM PAVEMENTS AND 6 FEET FROM ALL HYDRANTS.
12. CONTRACTOR IS RESPONSIBLE FOR PLANTS AWAITING INSTALLATION AND SHALL PROTECT THEM FROM INJURY AND THEFT.
13. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.
14. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
15. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING. SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
16. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
17. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. IF IRRIGATION IS INCLUDED, COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
18. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
19. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12".
20. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION PER RATE IDENTIFIED BY A SOIL TEST.
21. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

23. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
23. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
24. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
25. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
26. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
27. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOIL TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDDED AND RESTORED WITH SPECIFIED SEED MIX.
28. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
29. WHEN PLANTER POTS ARE SHOWN ON PLANS, CONTRACTOR SHALL INCLUDE THE FOLLOWING: PLANTER MIX, ANNUAL FLOWER PLANTING PROGRAM (INCLUDES 2 PLANTINGS FOR THE 1ST YEAR (SPRING AND FALL) AND WINTER HAND-WATERING AS NEEDED. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO PROVIDE ANNUAL PLANTING SELECTION FOR REVIEW BY OWNER. IRRIGATION FOR PLANTERS TO BE ON SEPARATE ZONE(S). CONTRACTOR TO COORDINATE PLACEMENT OF NECESSARY SLEEVE/PRIOR TO PLACEMENT OF PAVEMENT.
30. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
31. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
32. ALL TREES PLANTED WITHIN RIGHT-OF-WAY WILL INCLUDE CITY APPROVED ROOT BARRIERS.

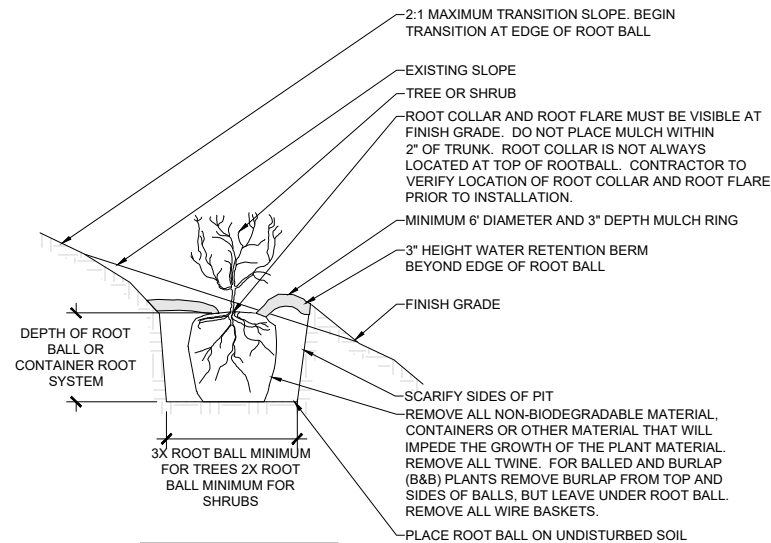


## 1 TREE PLANTING

SCALE: 1/2" = 1'-0"



### TYPICAL PLANTING PIT DETAIL



**SLOPE PLANTING PIT DETAIL**

## 2 PLANTING PIT

NO SCALE

[illegible]

# FIRE STATION 14 TRAINING - PHASE 1

## LANDSCAPE NOTES AND DETAILS

MADISON, WISCONSIN

**SNYDER & ASSOCIATES, INC.**

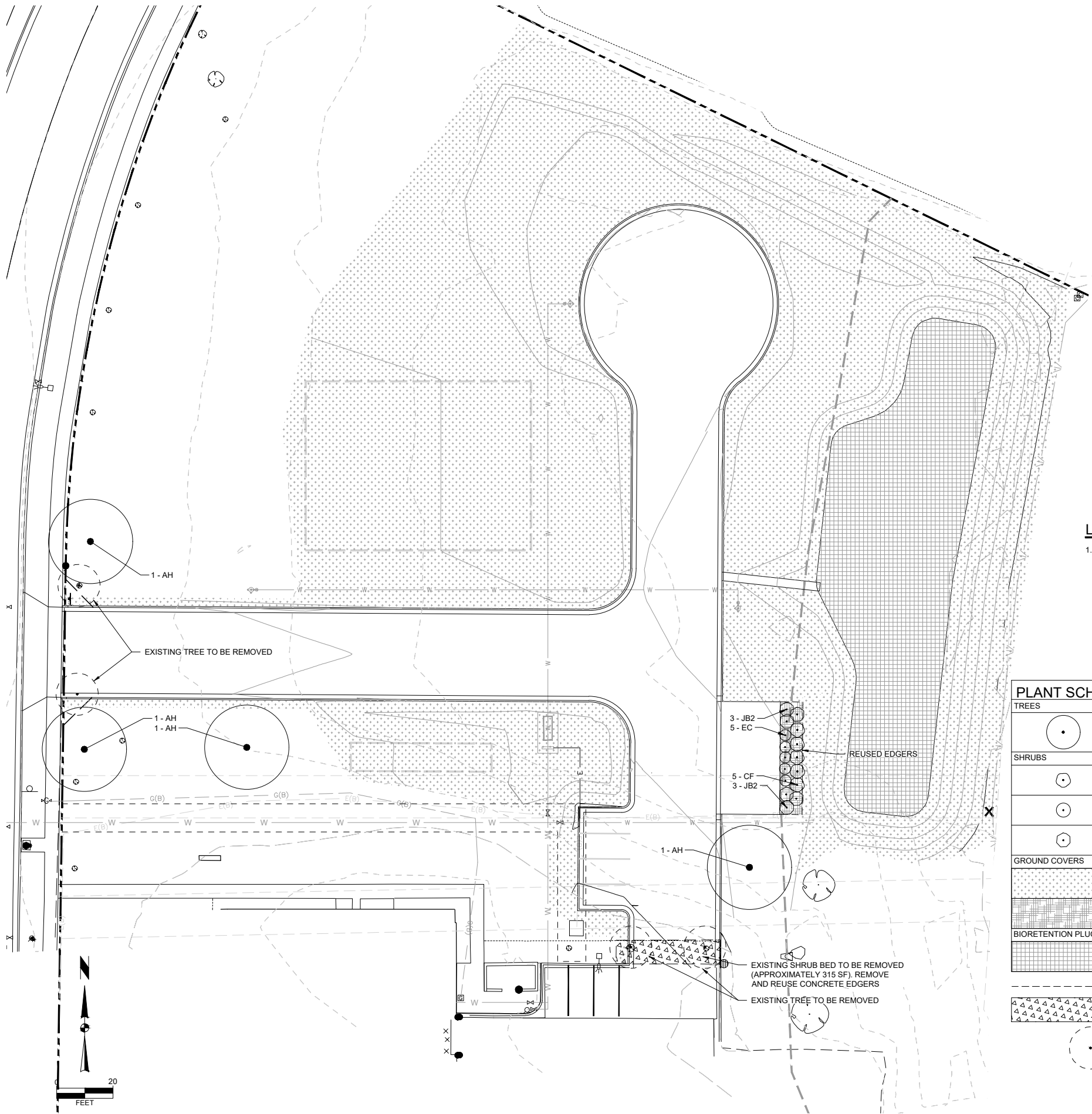


Project No: 123.0461.30

Sheet L 100




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LANDSCAPE CONSTRUCTION NOTES

1. PROVIDE 3" DEPTH SHREDDED HARDWOOD MULCH AROUND ALL STAND-ALONE TREES TO A MIN. 3-FOOT PERIMETER, AND IN ALL AREAS NOTED ON PLANS OVER GEOTEXTILE WEED CONTROL FABRIC. NO WEED CONTROL FABRIC IS REQUIRED IN GROUNDCOVER OR PERENNIAL AREAS. MULCHED LANDSCAPE BEDS SHALL REUSE THE EXISTING CONCRETE EDGER FROM THE REMOVED PLANTER BED. IF ADDITIONAL EDGER IS NEEDED, THE CONTRACTOR SHALL SUBMIT A SAMPLE OF NEW EDGER THAT MATCHES THE EXISTING, REUSED EDGER.

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
	AH	4	Aesculus hippocastanum 'Baumannii'	Baumann Horse Chestnut	2.5-IN. CAL.	B&B
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
	CF	5	Cornus sericea 'Farrow' TM	Arctic Fire Red Twig Dogwood	3 gal.	Pot
	EC	5	Euonymus alatus 'Compactus'	Compact Burning Bush	3 gal.	Pot
	JB2	6	Juniperus horizontalis 'Blue Rug'	Blue Rug Juniper	3 gal.	B&B
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
	TD	41,156 sf	Turf Seed Drought Tolerant Dwarf Fescue Blend	Turf Seed	seed	
	WC	320 sf	Wood Mulch	Wood Mulch	Double Shredded	
BIORETENTION PLUGS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
	BP	6,994	Bio Plugs	Bio Plugs	4"	Plug

- REUSED EDGERS
- EXISTING SHRUB BED TO BE REMOVED (APPROXIMATELY 315 SF)
- EXISTING TREE TO BE REMOVED (4 TOTAL)

FIRE SSTATION 14 TRAINING - PHASE 1

PLANTING PLAN

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC. |



Project No: 123.0461.30

Sheet L 200

MARK	REVISION	DATE	BY
Engineer: ENGR	Checked By: CHKD	Scale: 1" = 20'	
Technician: TECH	Date: MM-DD-YYYY	T-R-S: TTN+RRW+SS	

Project No: 123.0461.30

Sheet L 200