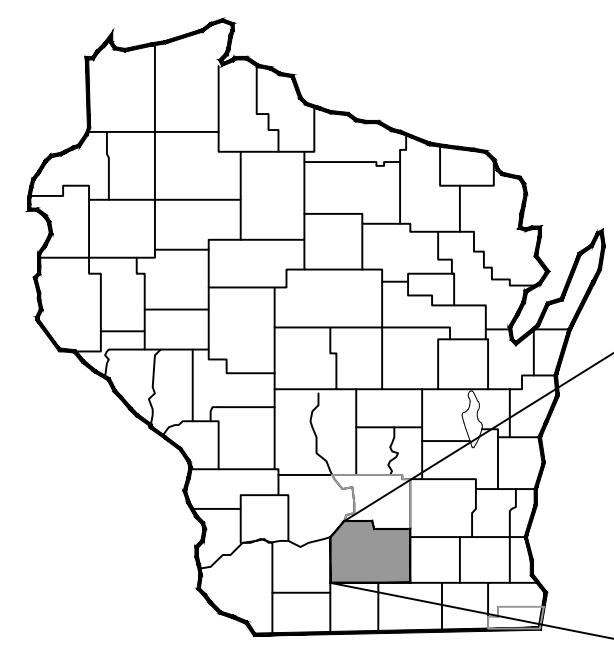


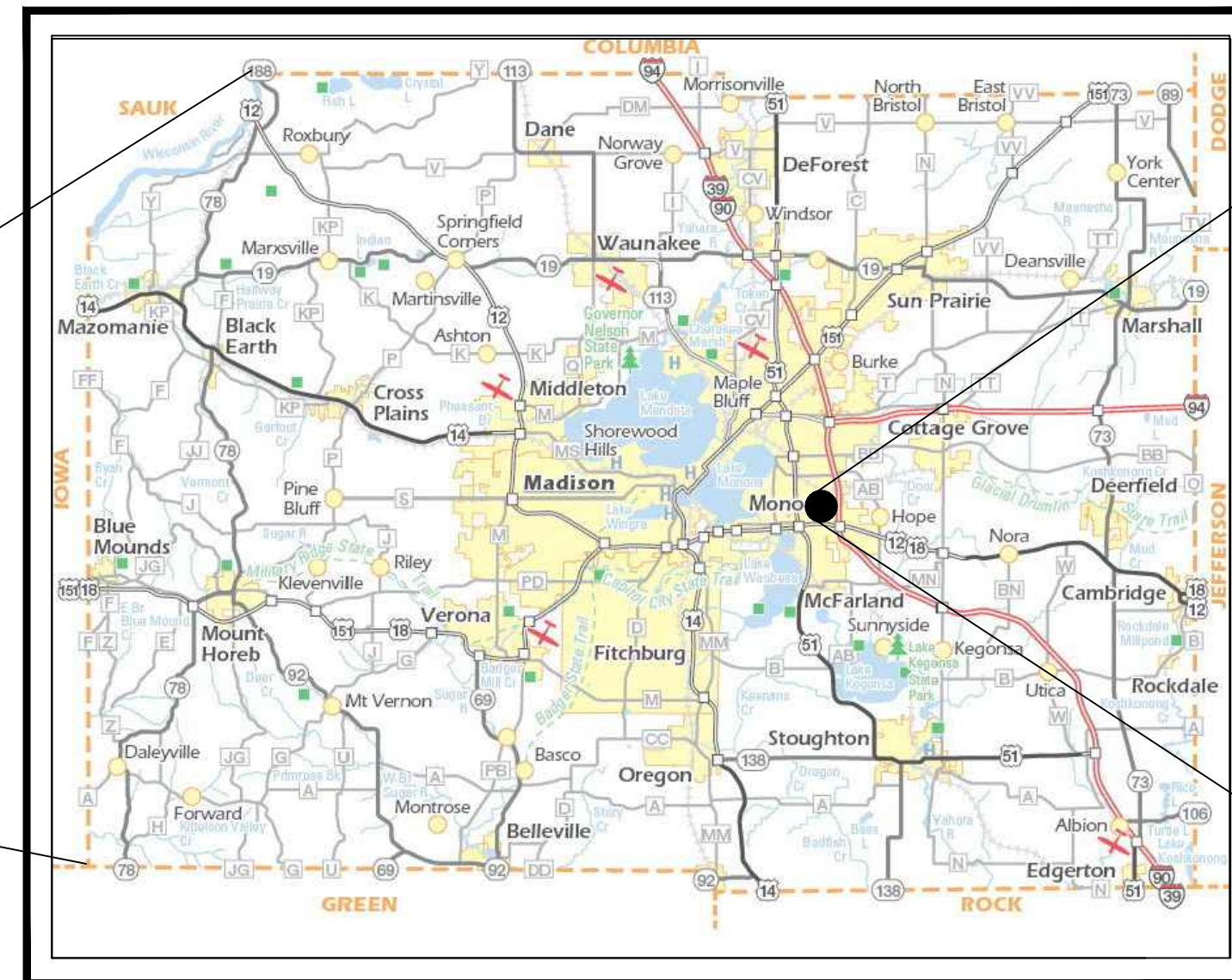
FIRE STATION 14 TRAINING SITE PHASE 1

SECTION 22, TOWNSHIP 7N, RANGE 10E

PROJECT _____ MUNIS 17208

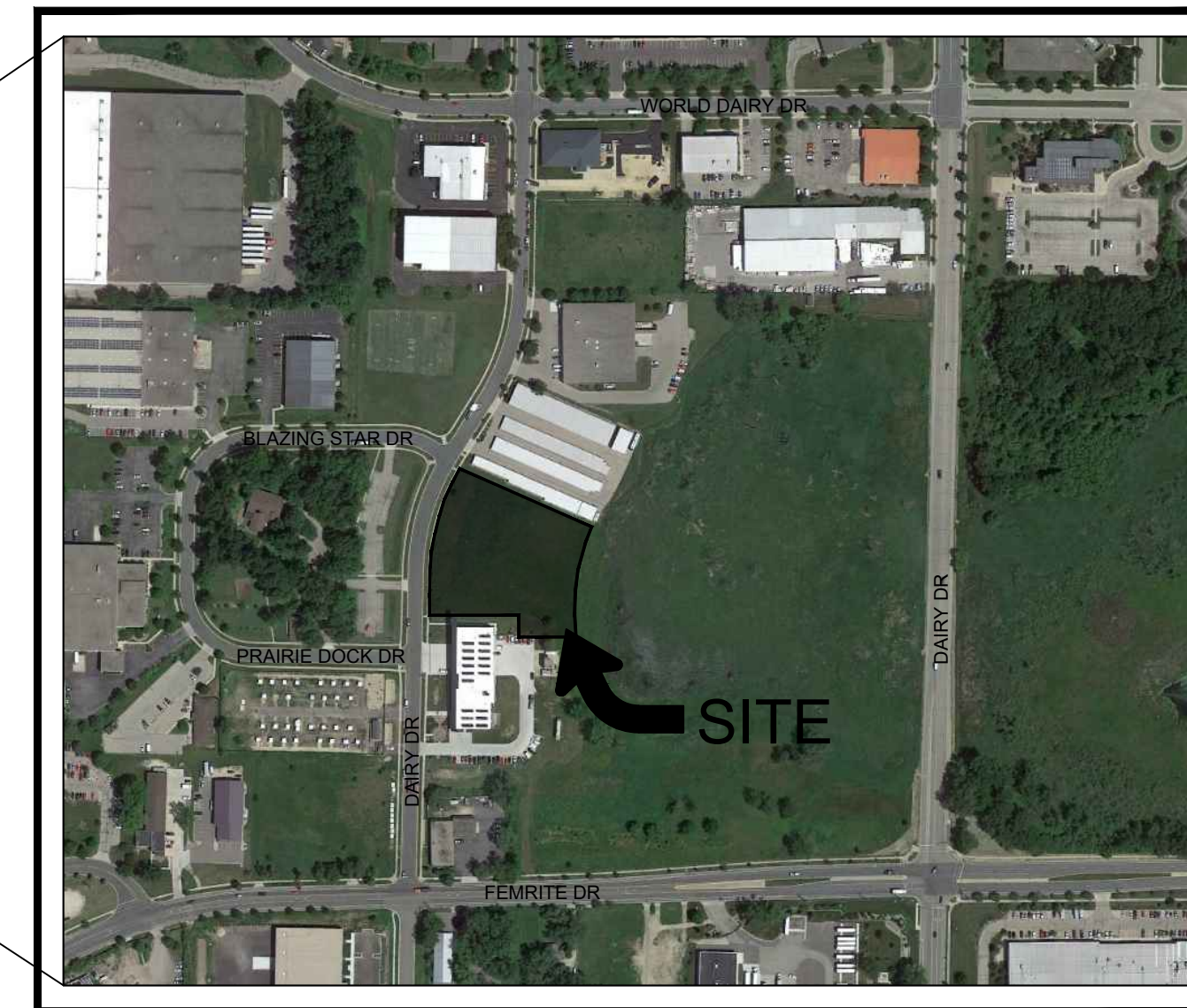


REGIONAL MAP



DANE COUNTY

DANE COUNTY, WISCONSIN



SITE LOCATION MAP

CITY OF MADISON,
DANE COUNTY, WISCONSIN



PUBLIC IMPROVEMENT PROJECT APPROVED:	PUBLIC IMPROVEMENT DESIGN APPROVED BY:
RES -	_____
FILE ID	CITY ENGINEER
DATE	_____
BY THE COMMON COUNCIL OF MADISON, WI	DATE

LEGAL DESCRIPTION:

LOT 36 OF THE FOURTH ADDITION TO WORLD DAIRY CENTER, AS RECORDED IN VOLUME 57-191A OF PLATS, ON PAGE 795-800, AS DOCUMENT NUMBER 3486487, DANE COUNTY REGISTRY, LOCATED IN THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 07 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

BENCHMARKS

BENCHMARK # 1
TOP NUT OF HYDRANT AT THE NORTH EAST CORNER OF BLAZING STAR DRIVE & DAIRY DRIVE
ELEVATION = 866.72

BENCHMARK # 2
TOP NUT OF HYDRANT AT THE NORTH EAST CORNER OF PRAIRIE DOCK DRIVE & DAIRY DRIVE
ELEVATION = 866.90

CAUTION:

CERTAIN UNDERGROUND UTILITIES HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS SHALL NOT BE TAKEN AS CONCLUSIVE. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THE DRAWING OR NOT, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. FOR EXACT LOCATION CONTACT DIGGERS HOTLINE 1-800-242-8511

SHEET INDEX	
C 100	TITLE SHEET
C 200	EXISTING SITE AND REMOVALS
C 201	EXISTING SITE AND REMOVALS
C 300	SITE PLANS
C 301	OVERALL GRADING PLAN
C 302	SPOT ELEVATIONS AND UTILITY PLAN
C 400	MISCELLANEOUS DETAILS
C 401	MISCELLANEOUS DETAILS
C 402	WATER DETAILS



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = ##'	
Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	
Project No: 123.0461.30			Sheet C 100


FIRE STATION 14 TRAINING - PROJECT - MUNIS 17208

TITLE SHEET

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC.

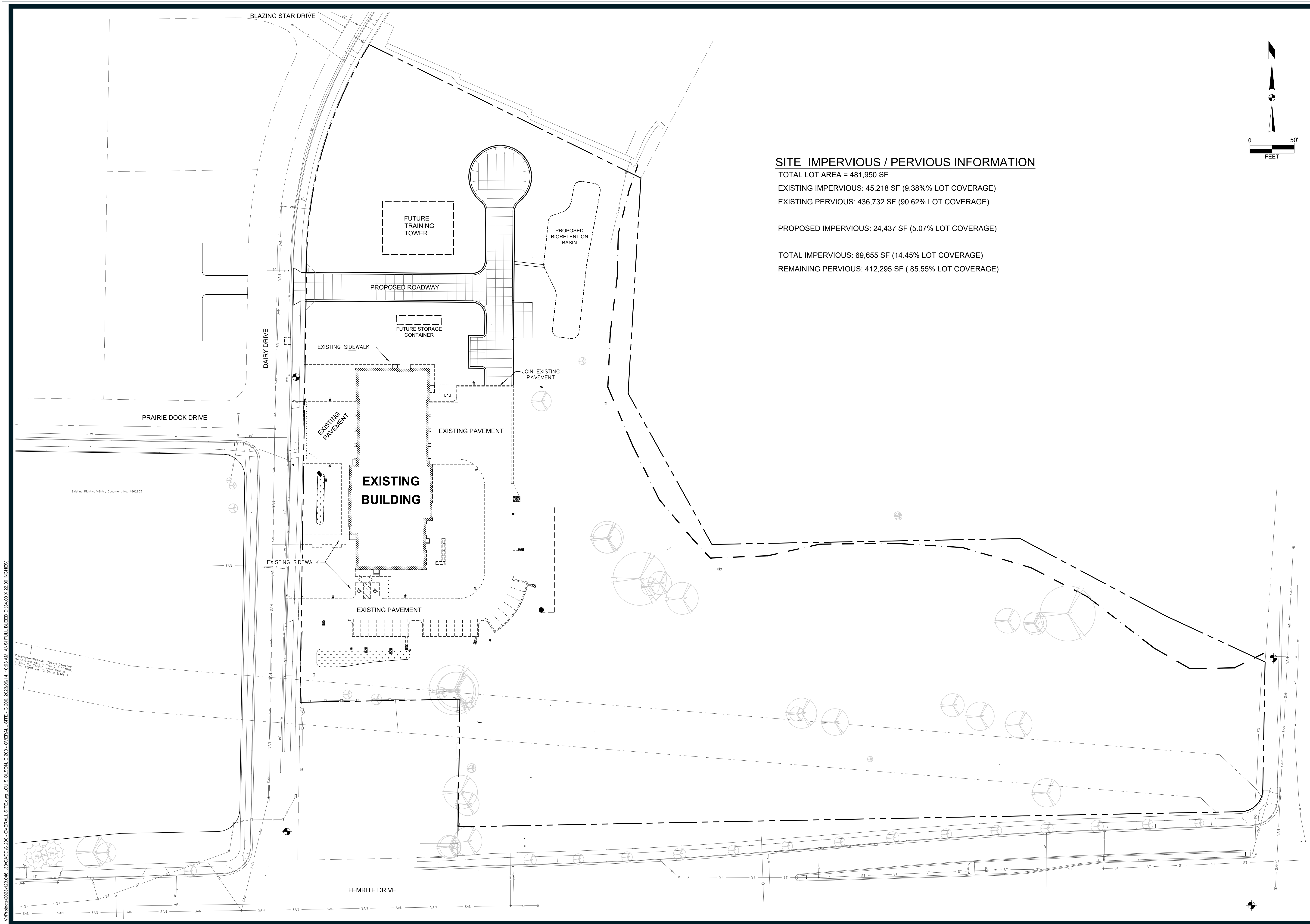
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com



Project No: 123.0461.30

Sheet C 100

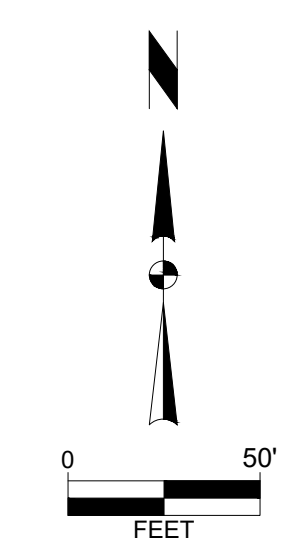
V:\Projects\2023\123.0461.30\FDD\1230461.PLAN.dwg LOUIS CLSON, 1230461.PLAN, C: 00, 2023/04/14, 10:03 AM, ANSI FULL BLEED D, 14.00 X 22.00 INCHES



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)



V:\Projects\2023\133465_330CAD\200-OVERALL SITE.dwg, LOUIS OLSON, E-200, 2023/09/14, 10:03 AM, ANSI FULL BLEED D (34.30 X 22.0) INCHES

MARK	REVISION	DATE	BY

Engineer: LAO Checked By: SJA Scale: 1" = N/A
 Technician: MW Date: 9-12-2023 T-R-S: #####

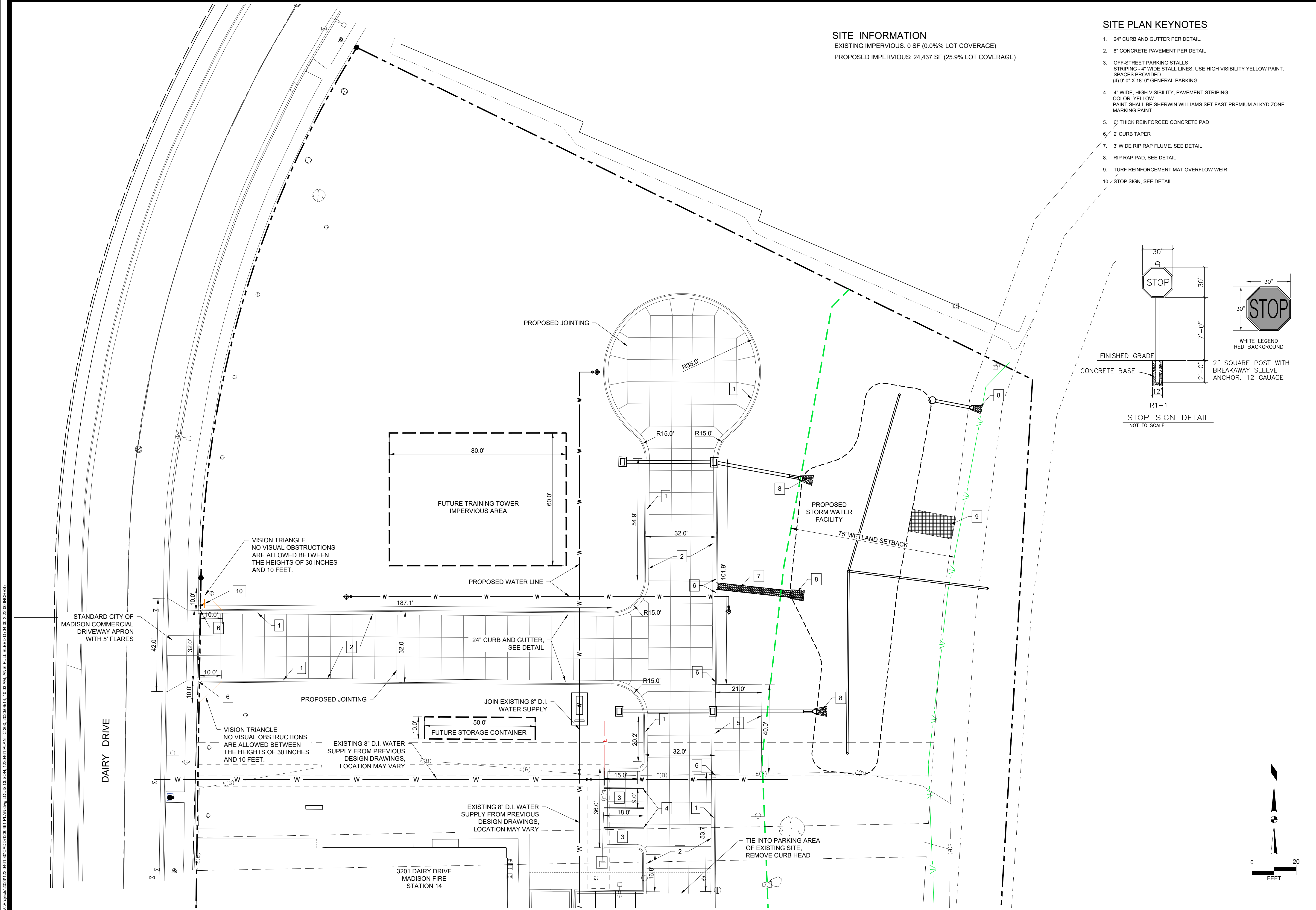
FIRE STATION 14 TRAINING - PHASE 1
OVERALL LOT IMPERVIOUS / PERVIOUS AREA
SNYDER & ASSOCIATES, INC. |
 MADISON, WISCONSIN
 5010 VOGES ROAD
 MADISON, WISCONSIN 53718
 608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 123.0461.30
 Sheet C 200

Sheet C 200

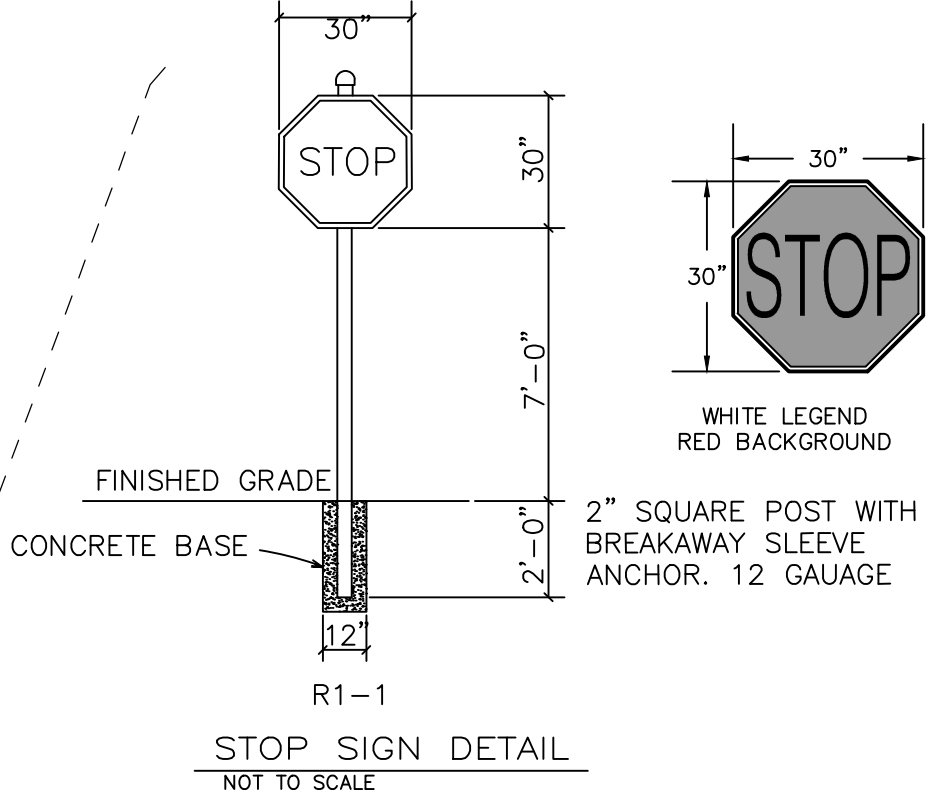
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SITE INFORMATION
 EXISTING IMPERVIOUS: 0 SF (0.0% LOT COVERAGE)
 PROPOSED IMPERVIOUS: 24,437 SF (25.9% LOT COVERAGE)

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

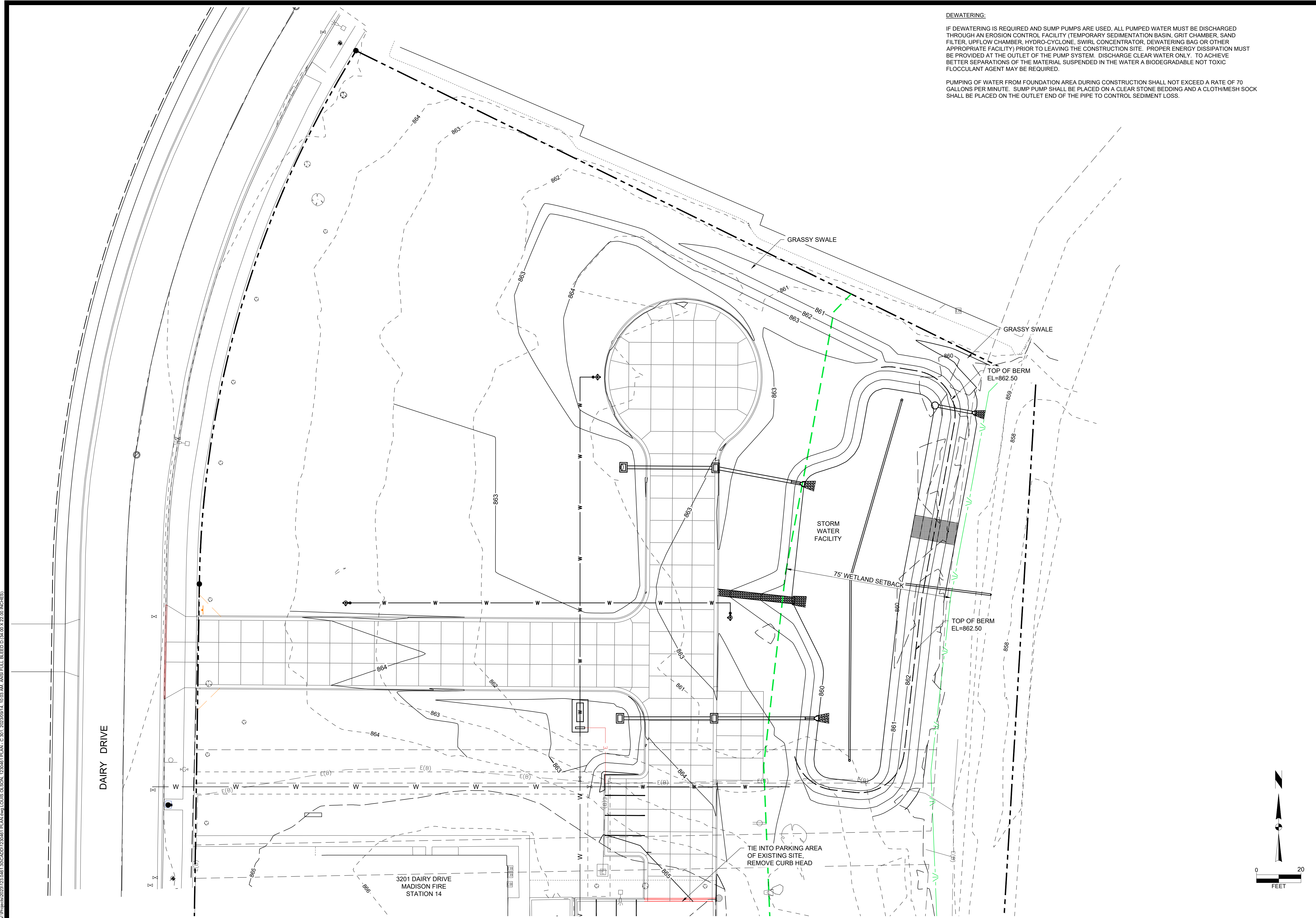
5010 VOEGES ROAD
 MADISON, WISCONSIN 53718
 608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES, INC.

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 20'	
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

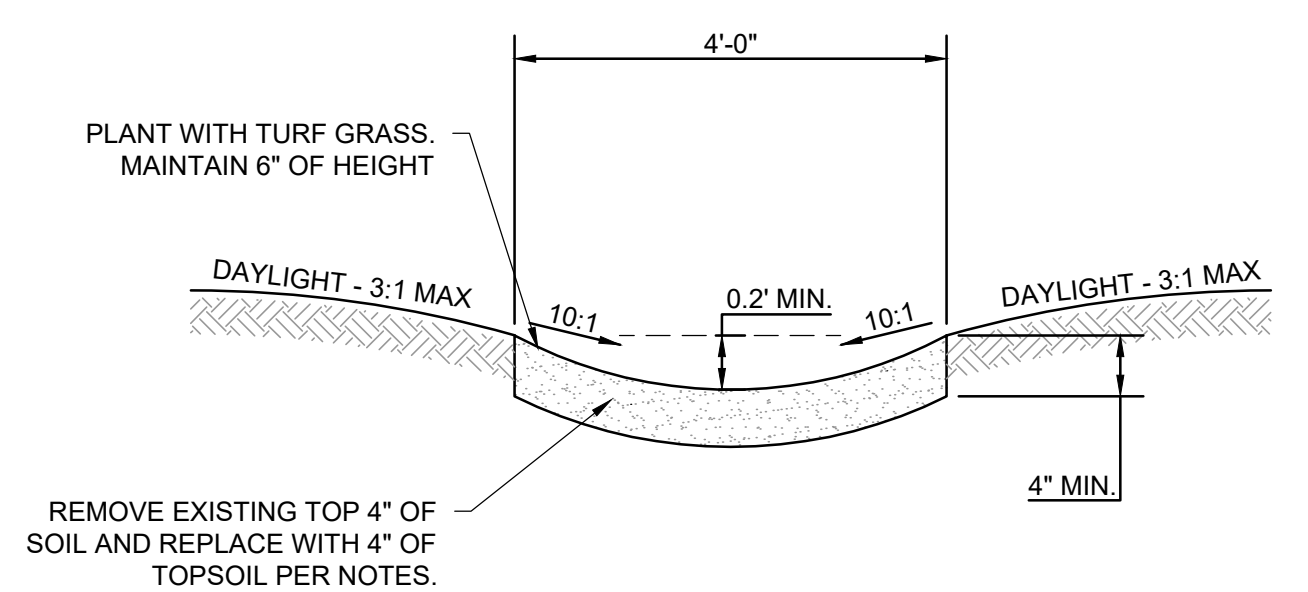
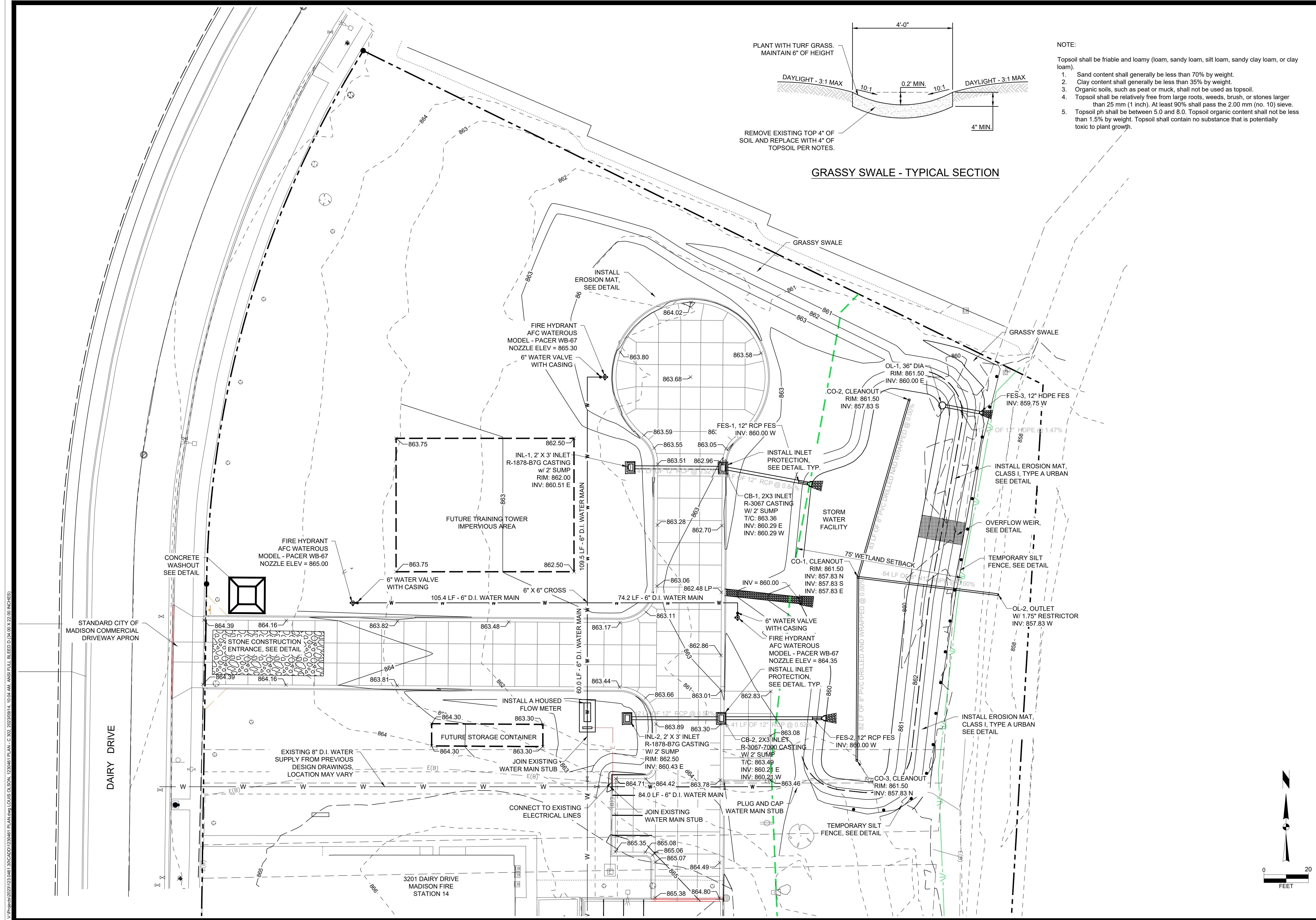
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Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	

Project No: 123.0461.30

Sheet C 301

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- NOTE:
- Topsoil shall be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, or clay loam).
1. Sand content shall generally be less than 70% by weight.
 2. Clay content shall generally be less than 35% by weight.
 3. Organic soils, such as peat or muck, shall not be used as topsoil.
 4. Topsoil shall be relatively free from large roots, weeds, brush, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
 5. Topsoil ph shall be between 5.0 and 8.0. Topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.

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MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 20'	
Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	

FIRE STATION 14 TRAINING - PHASE 1

SPOT ELEVATION AND UTILITY PLAN

MADISON, WISCONSIN

SNYDER & ASSOCIATES, INC.

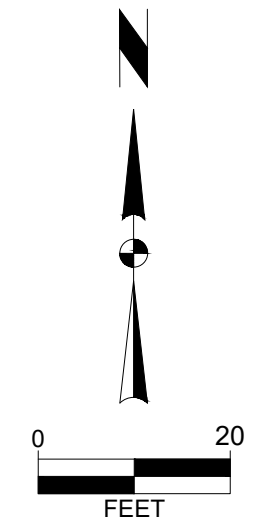
5010 VOGES ROAD
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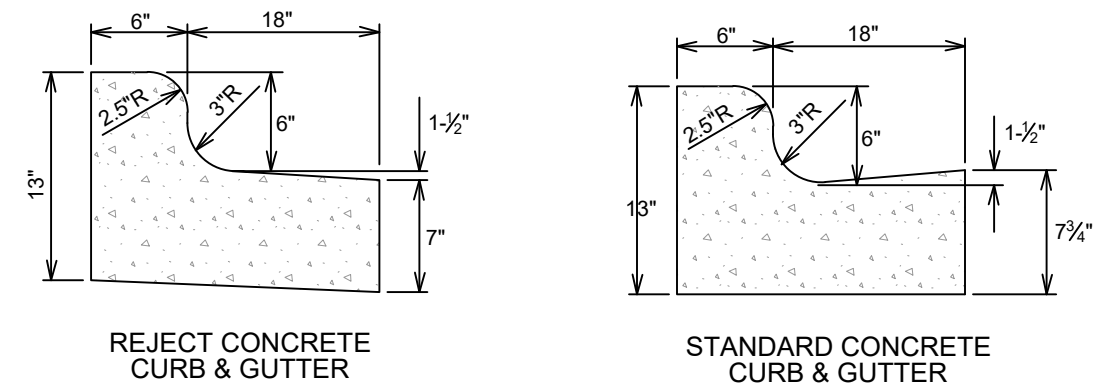
SNYDER & ASSOCIATES

Project No: 123.0461.30

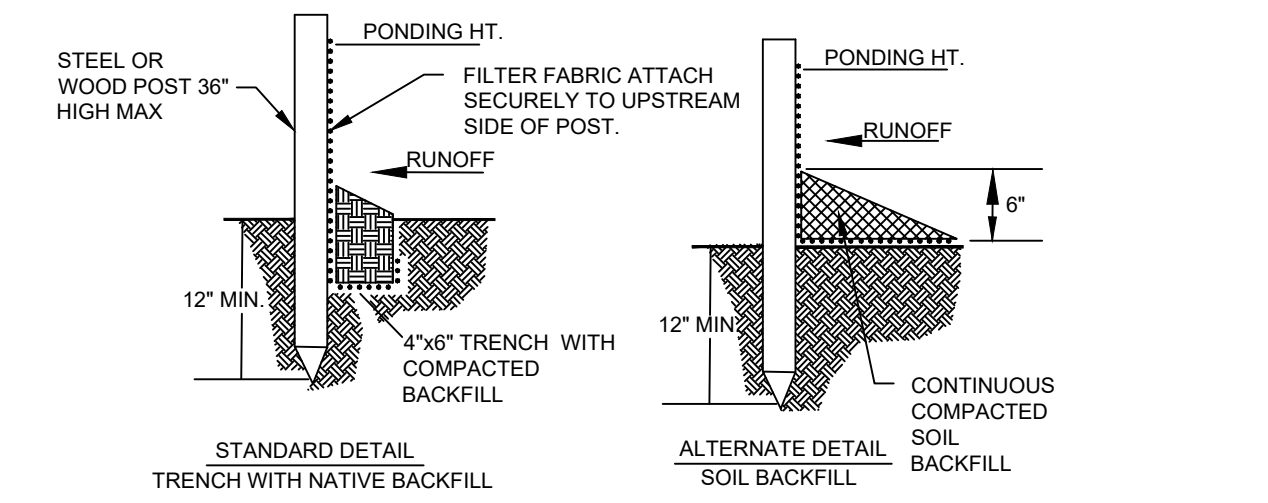
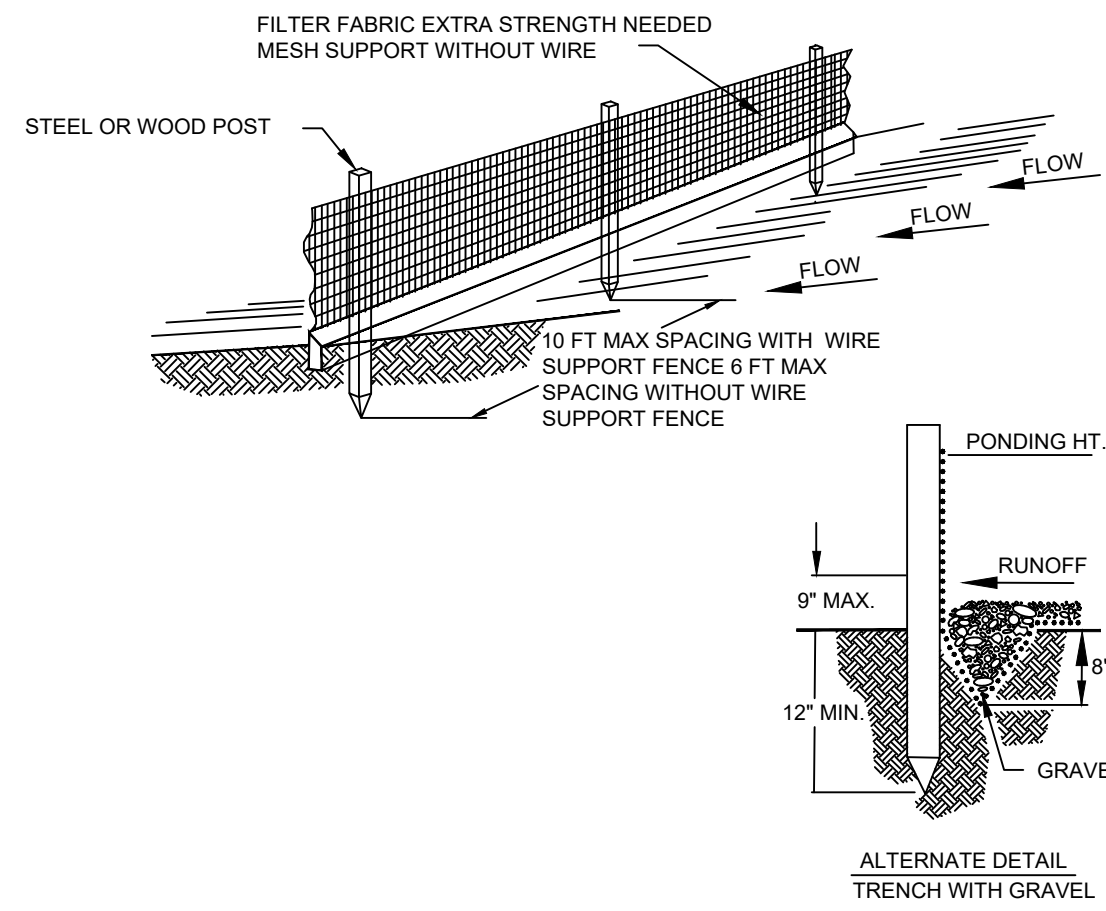
Sheet C 302

Sheet C 302



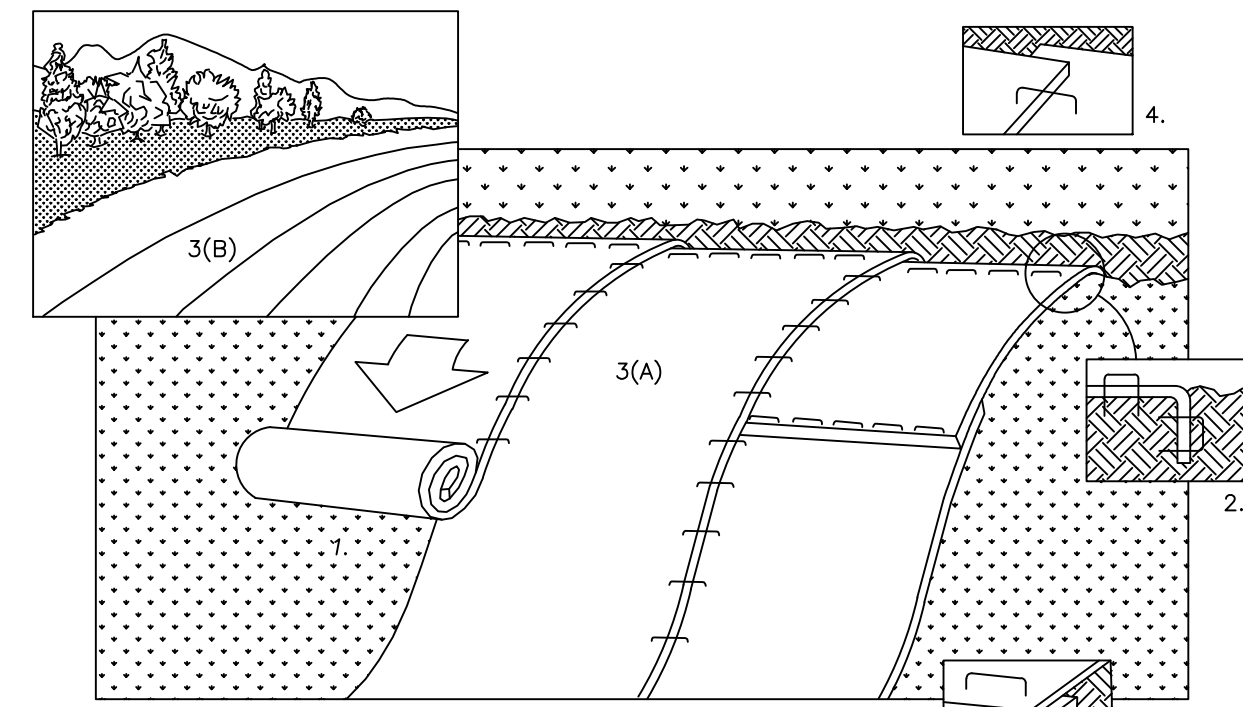


1 24" CURB AND GUTTER DETAIL
C 400



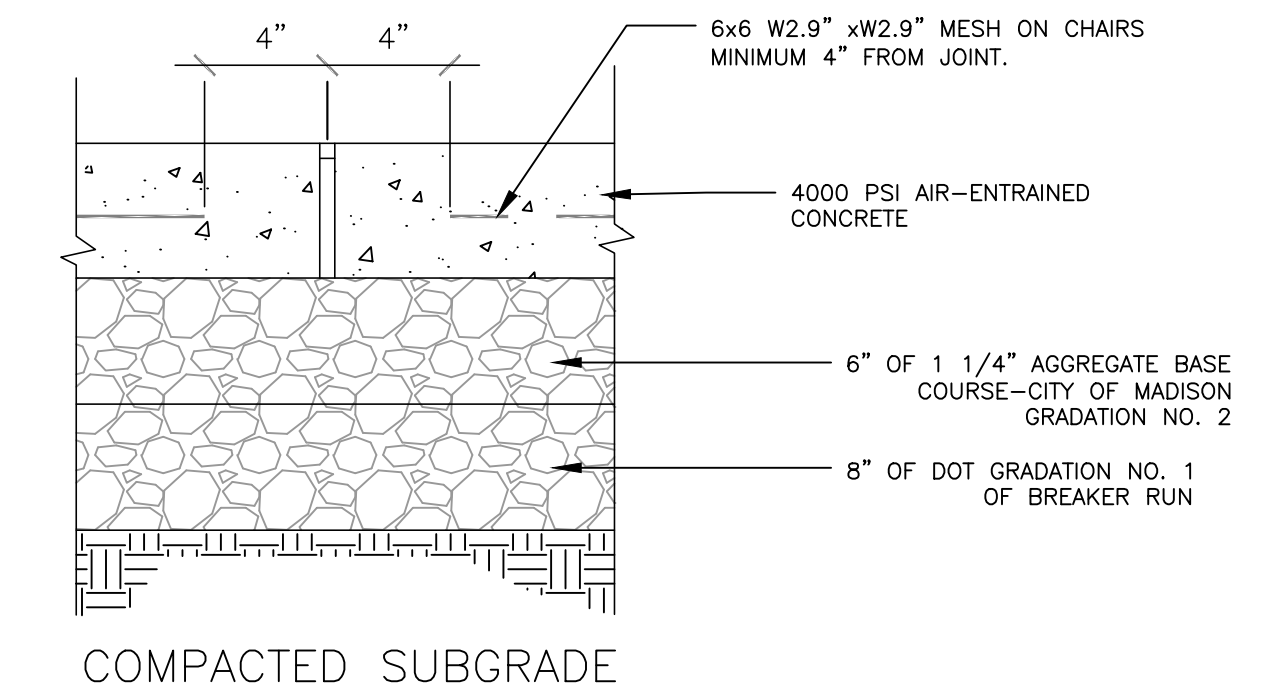
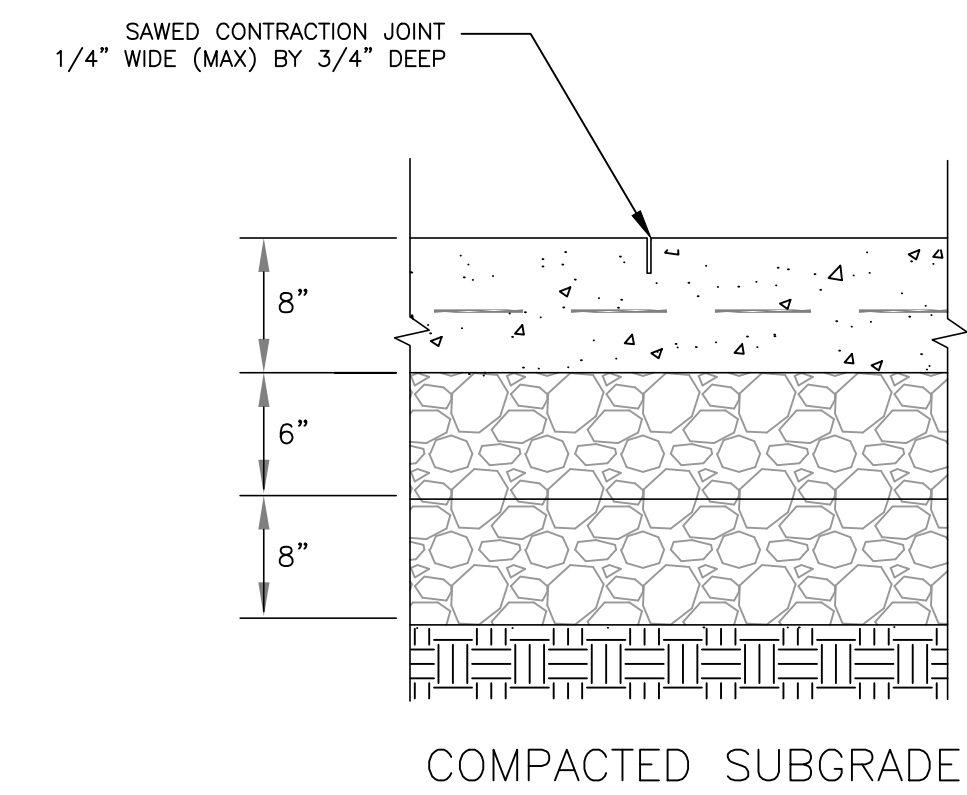
- NOTE:
- INSPECT FENCE WEEKLY AND AFTER EACH RAIN EVENT OF 0.5" AND REPAIR IF REQUIRED. REMOVE SEDIMENT WHEN NECESSARY OR WHEN SEDIMENT REACHES 1/2 OF FENCE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDMR TECHNICAL STANDARD 1056.

5 SILT FENCE DETAIL
C 400



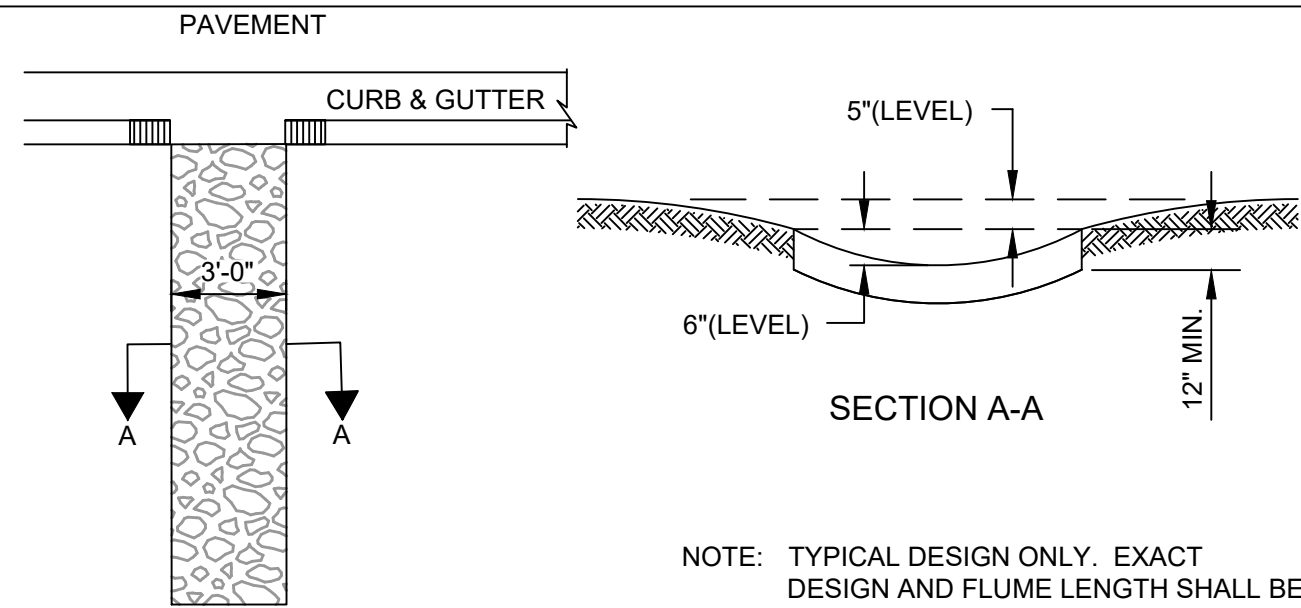
- NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
 - ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

7 EROSION CONTROL MAT - SLOPE INSTALLATION
C 400



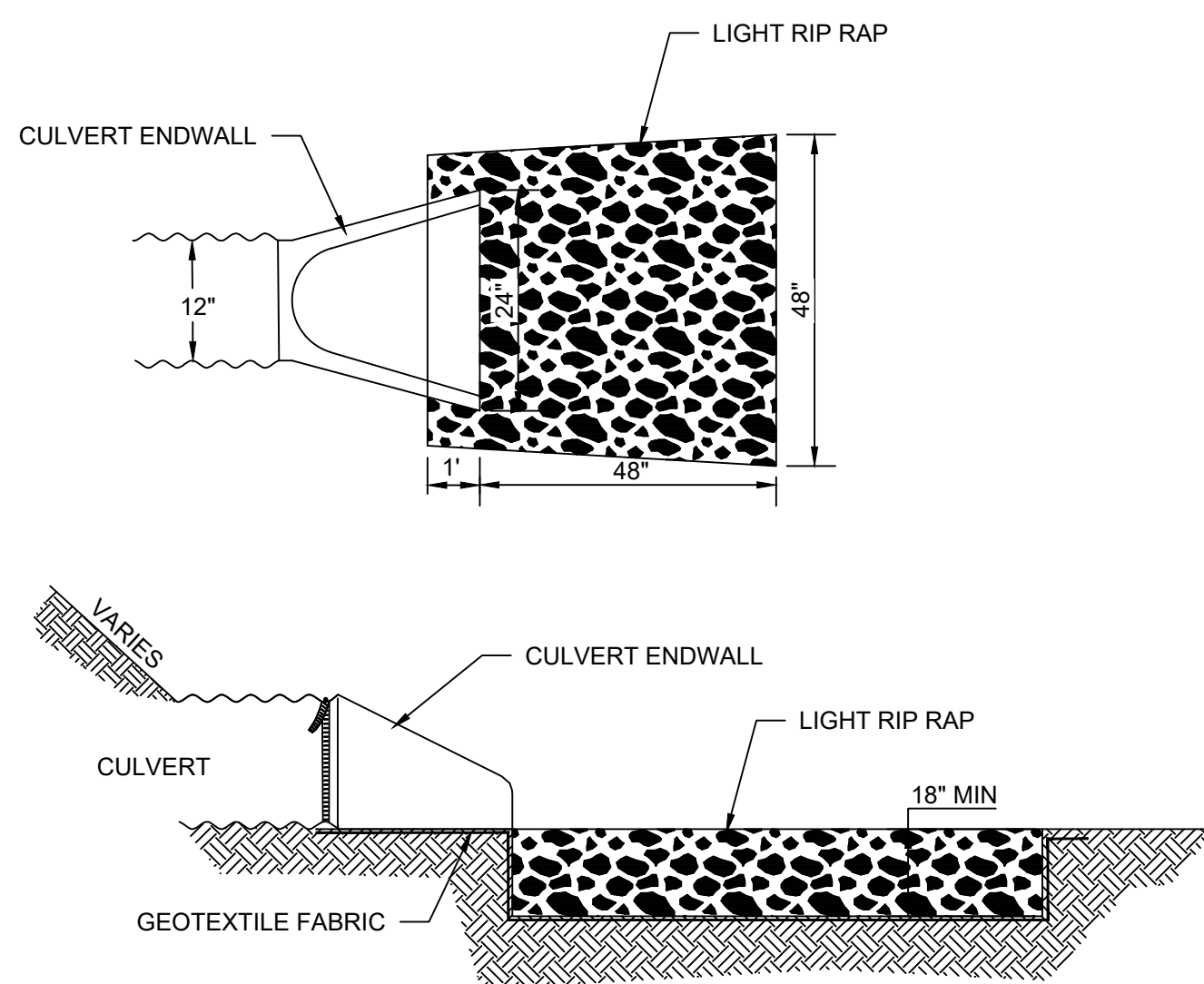
NOTE: PROVIDE #4 - 8" DOWEL CONNECTION BETWEEN ADJACENT SLABS AT 12" O.C. EPOXY-COATED.

9 HEAVY DUTY CONCRETE
C 400

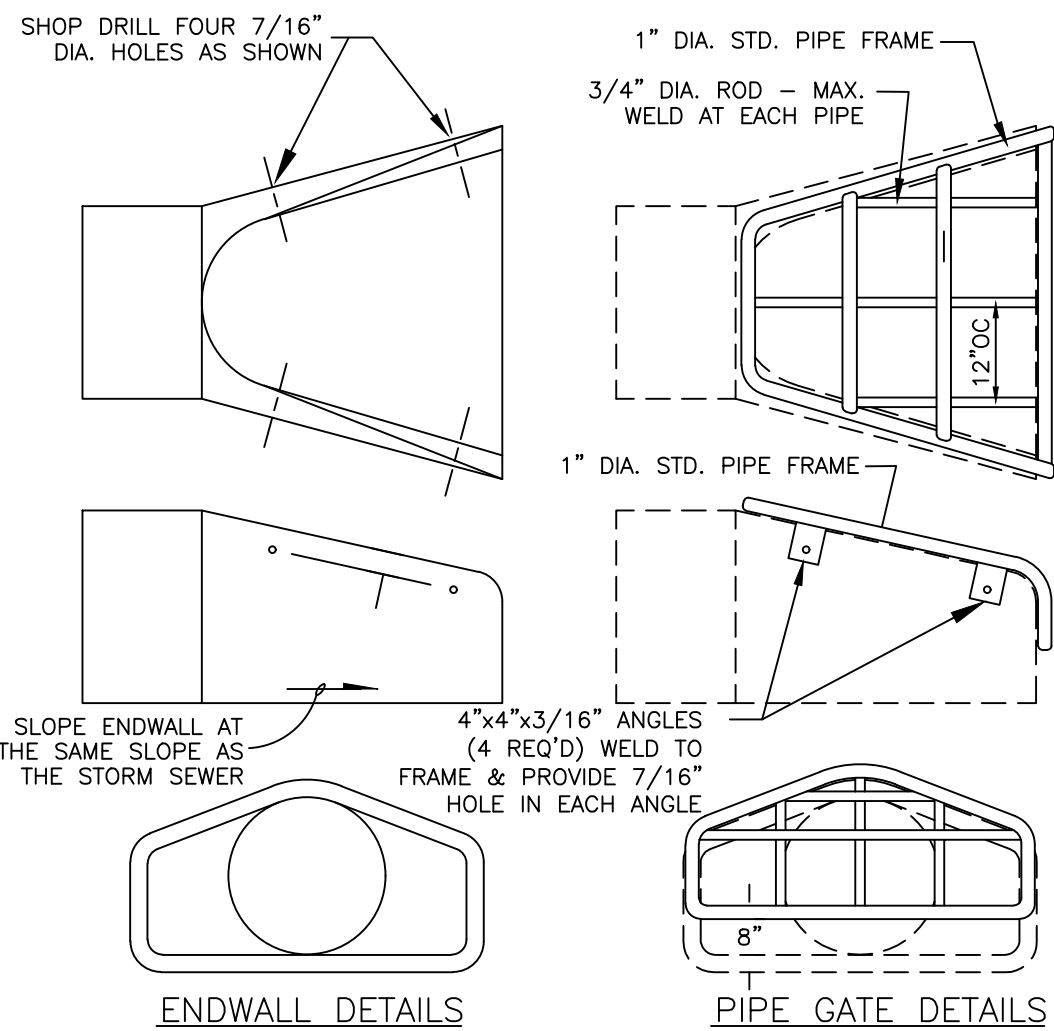


NOTE: TYPICAL DESIGN ONLY. EXACT DESIGN AND FLUME LENGTH SHALL BE DETERMINED AT TIME OF CONSTRUCTION TO FIT FIELD CONDITIONS.

3 LIGHT RIP-RAP FLUME DETAIL
C 400

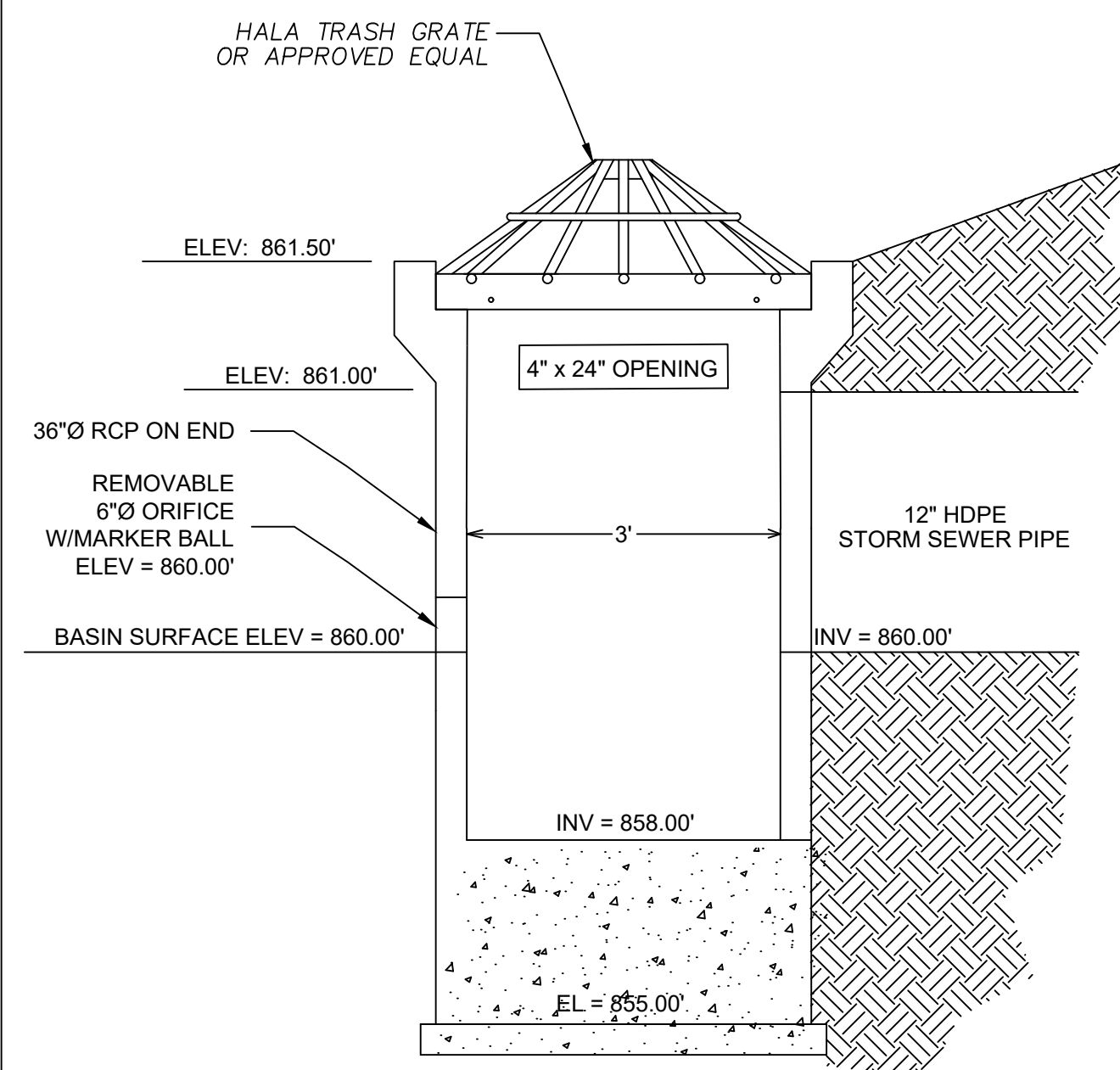


4 RIP RAP PAD DETAIL
C 400

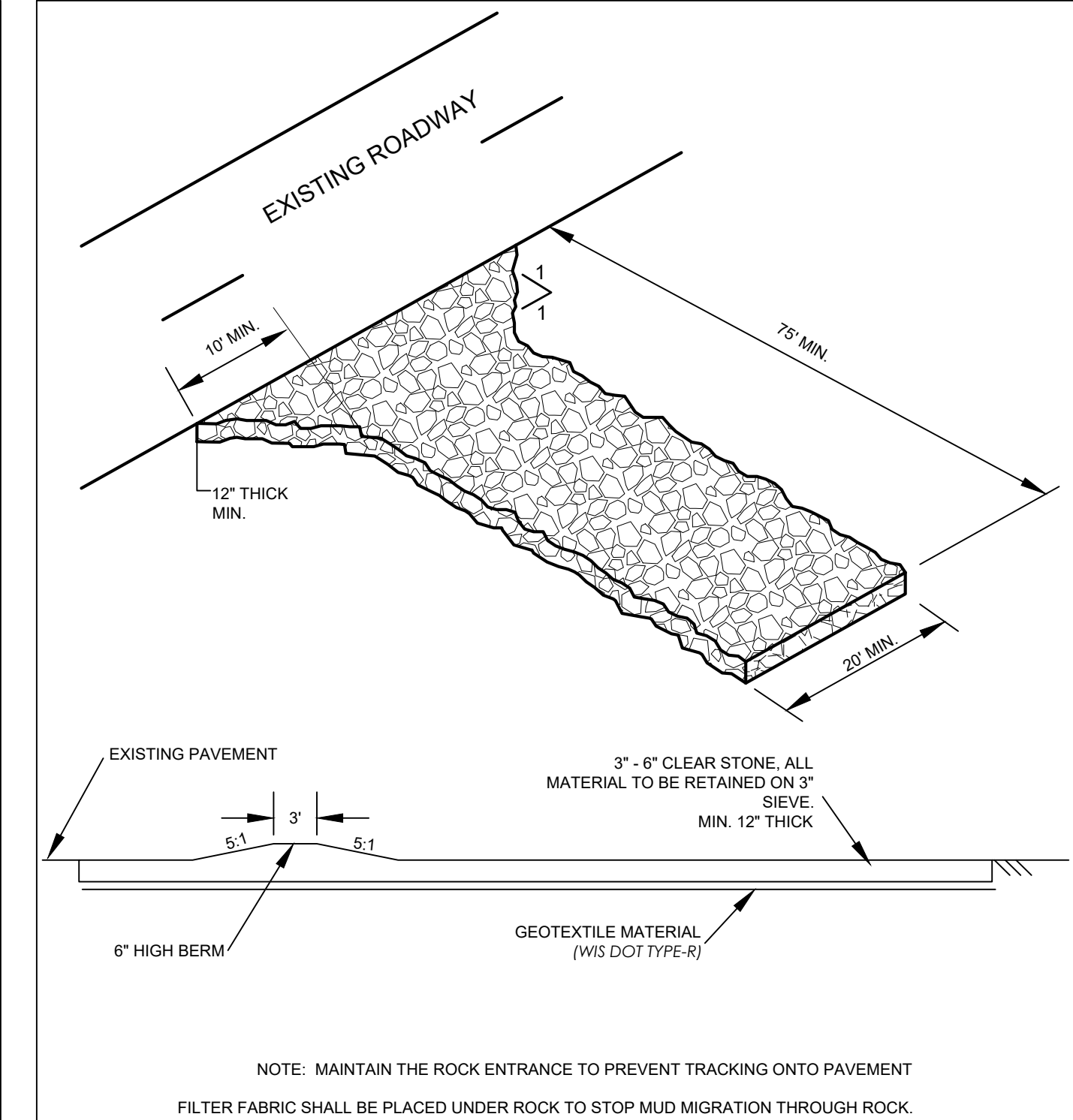


- NOTES:
- THE CONTRACTOR SHALL BOLT THE PIPE GATE TO THE CONCRETE ENDWALL WITH FOUR 3/8"x6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.
- PAINTING SPECIFICATIONS:
- THE PIPE GATE SHALL RECEIVE THE FOLLOWING PREPARATION & PAINTING. THE FIRST COAT SHALL BE RUS-OLEUM X-60 RED BARE METAL PRIMER OR APPROVED EQUAL. THE SECOND COAT SHALL BE RUS-OLEUM 960 ZINC CHROMATE PRIMER OR APPROVED EQUAL. THE THIRD COAT SHALL BE RUS-OLEUM 1282 HIGH GLOSS METAL FINISH OR APPROVED EQUAL.
- PREPARATION STEPS:
- BARE METAL SURFACES - TREAT WITH THE THREE-COAT PAINTING SYSTEM LISTED AFTER A THOROUGH SCRAPING, WIRE BRUSHING & CLEANING.
 - EACH COAT OF PAINT SHALL BE APPLIED OVER THE ENTIRE GATE SURFACE.
 - ALLOW 24-48 HOURS DRYING TIME AT 60° OR ABOVE BETWEEN COATS.

6 ENDWALL GRATE DETAIL
C 400



8 BASIN OUTLET DETAIL
C 400



NOTE: MAINTAIN THE ROCK ENTRANCE TO PREVENT TRACKING ONTO PAVEMENT. FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.

10 STONE CONSTRUCTION ENTRANCE DETAIL
C 400

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = N/A	
Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRW-SS	

FIRE STATION 14 TRAINING - PHASE 1
 MISCELLANEOUS DETAILS
 MADISON, WISCONSIN
 SNYDER & ASSOCIATES, INC.



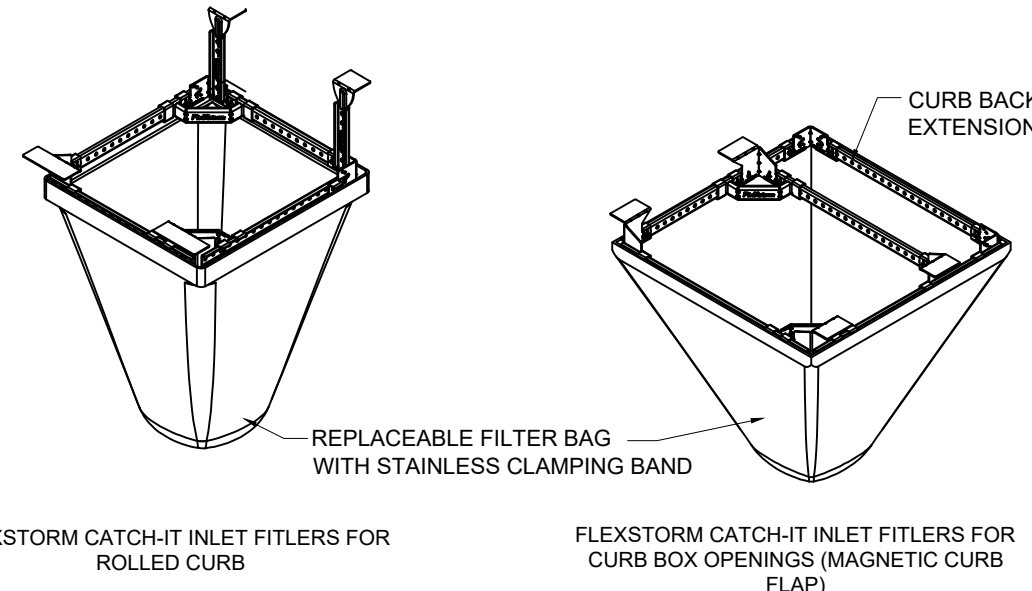
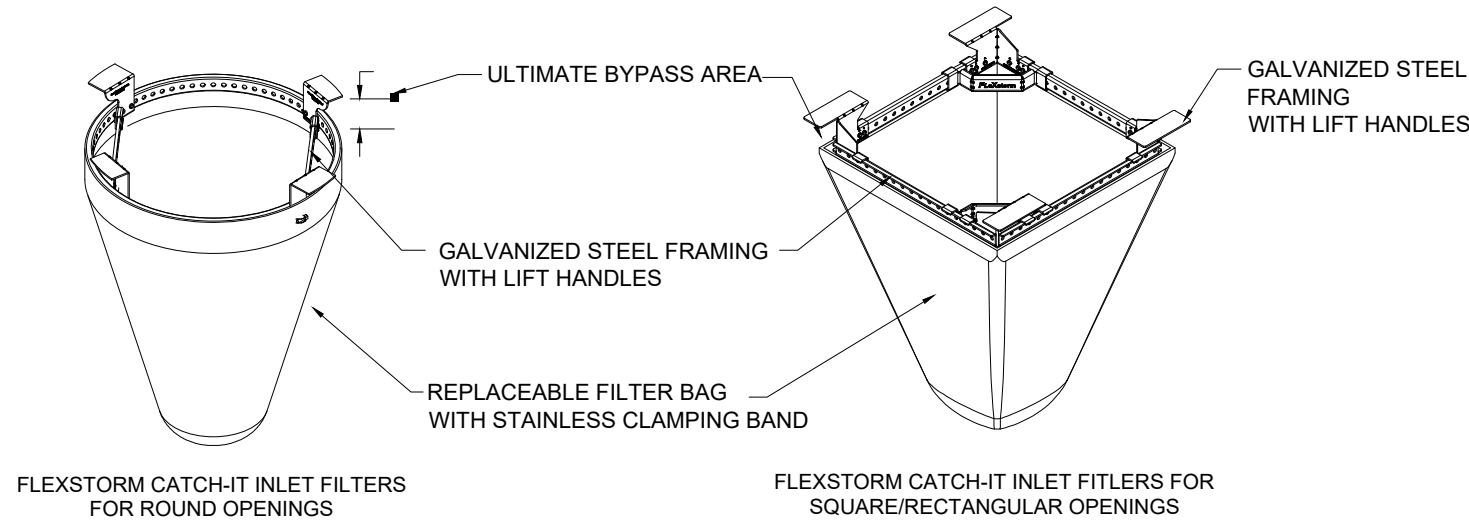
*FLOW RATINGS SHOWN ARE 50% MAXIMUM

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

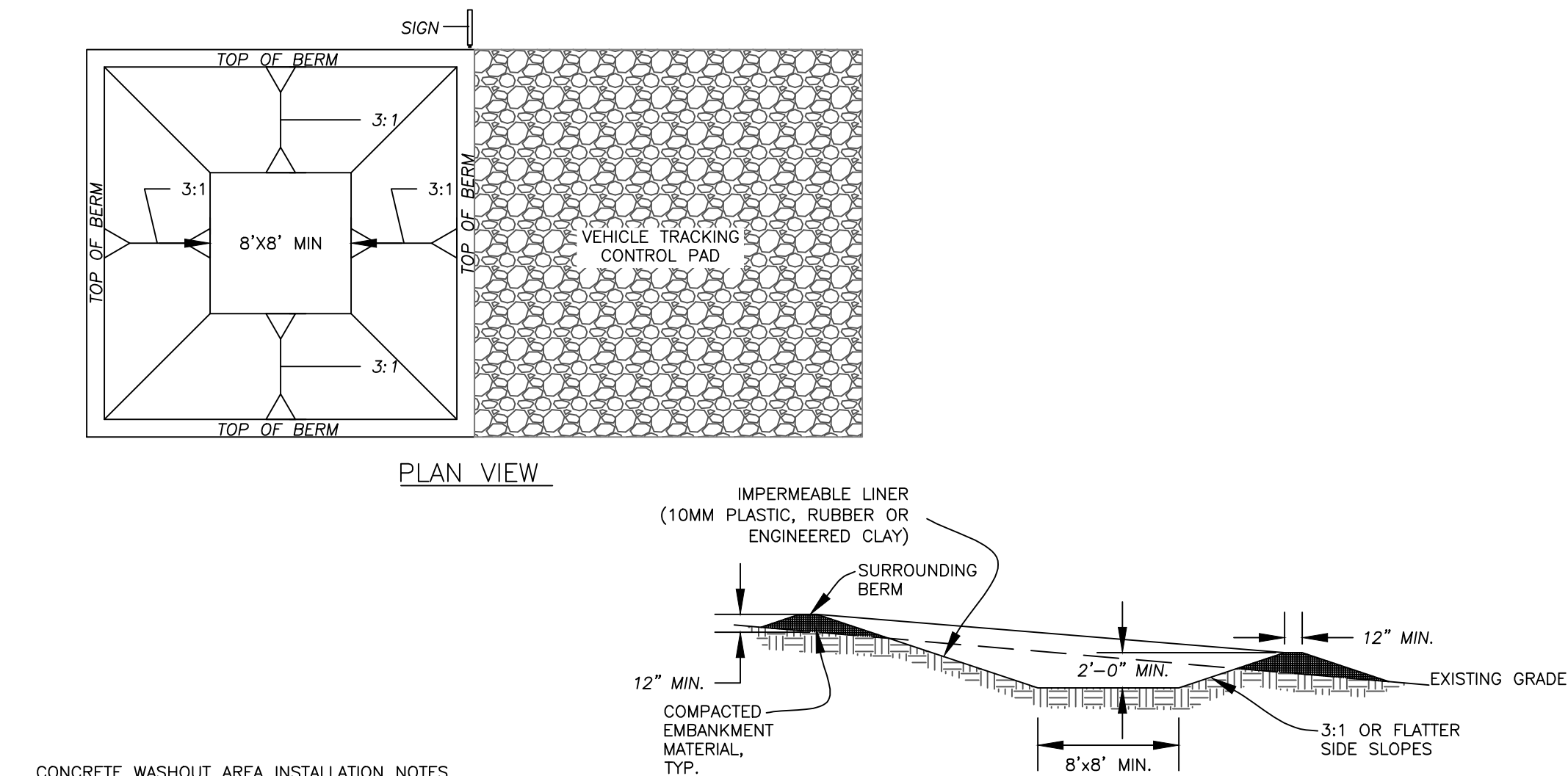
INSTALLATION:

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



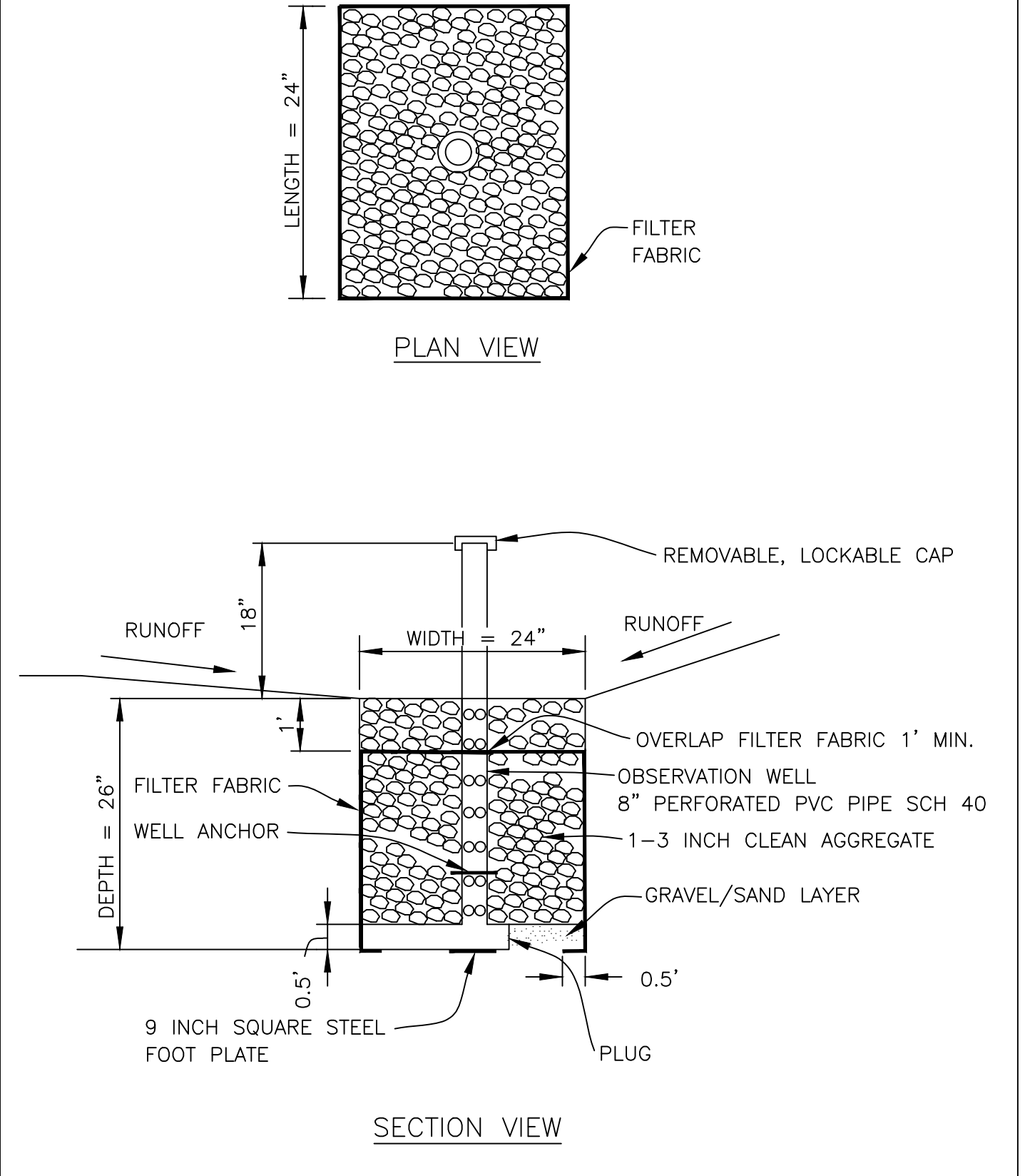
Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)							
Neenah Casting	Inlet Type	Grate Size	Opening Size	Bag Cap (ft ²)	Flow Ratings (CFS)		ADS P/N
					FX	Bypass	
1040/1642/1733	Round	26	24	1.9	1.5	5.4	62MRDFX
3067 w/FLAP	Curb Box	35.25 x 17.75	33.0 x 15.0	3.8	1.9	5.6	62LCBEXTFX
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

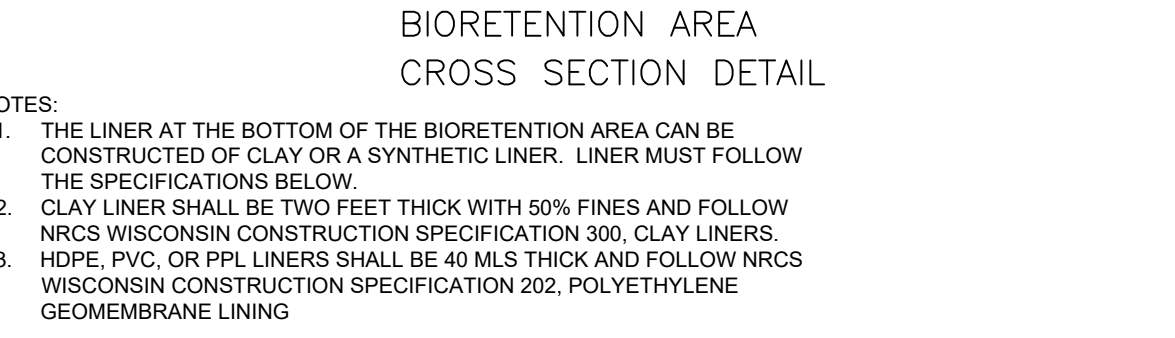
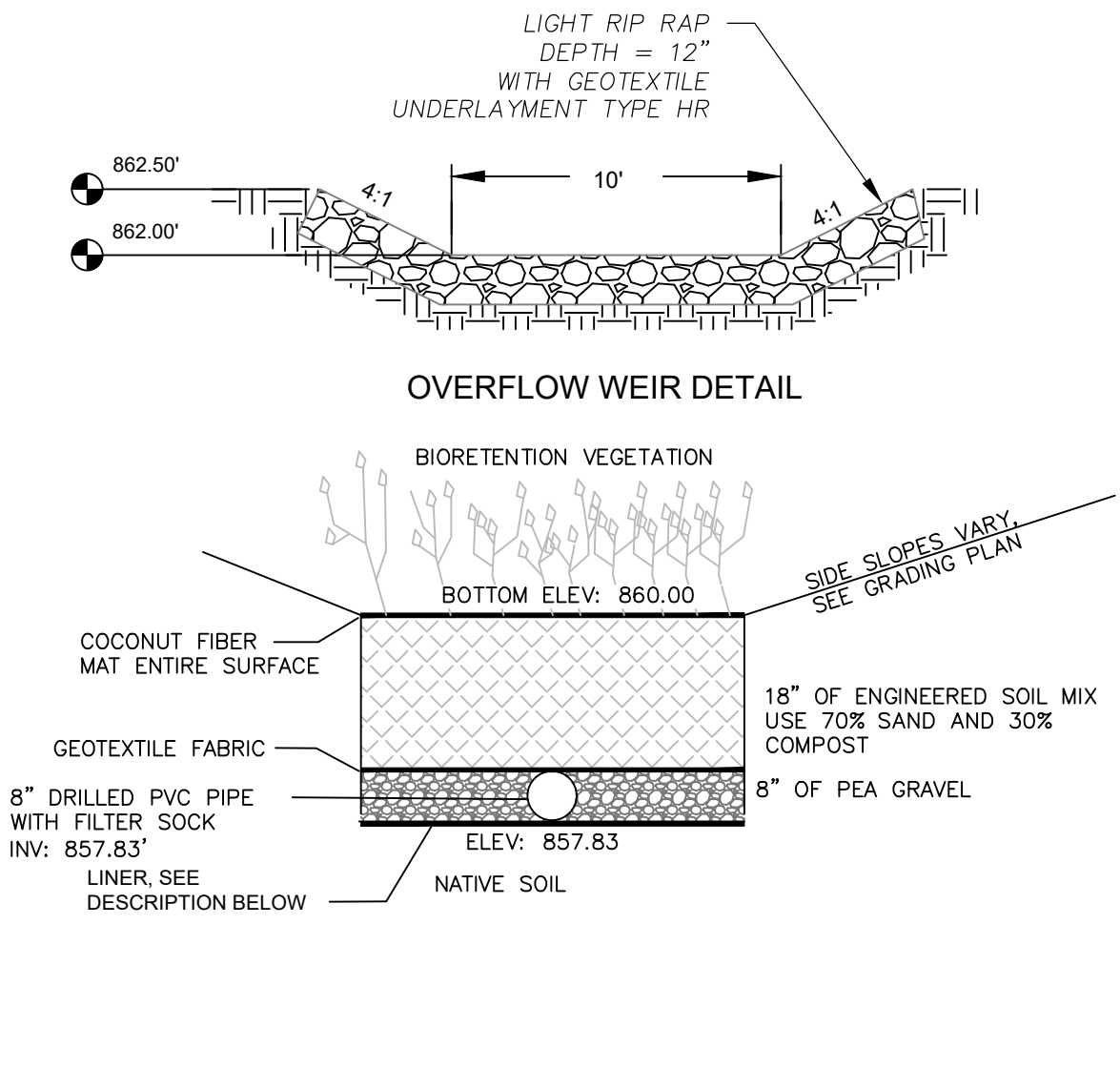


- CONCRETE WASHOUT AREA INSTALLATION NOTES**
- SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
 - THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 - VEHICLE TRACKING 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



4 C 401 CLEANOUT / OBSERVATION WELL
NOT TO SCALE

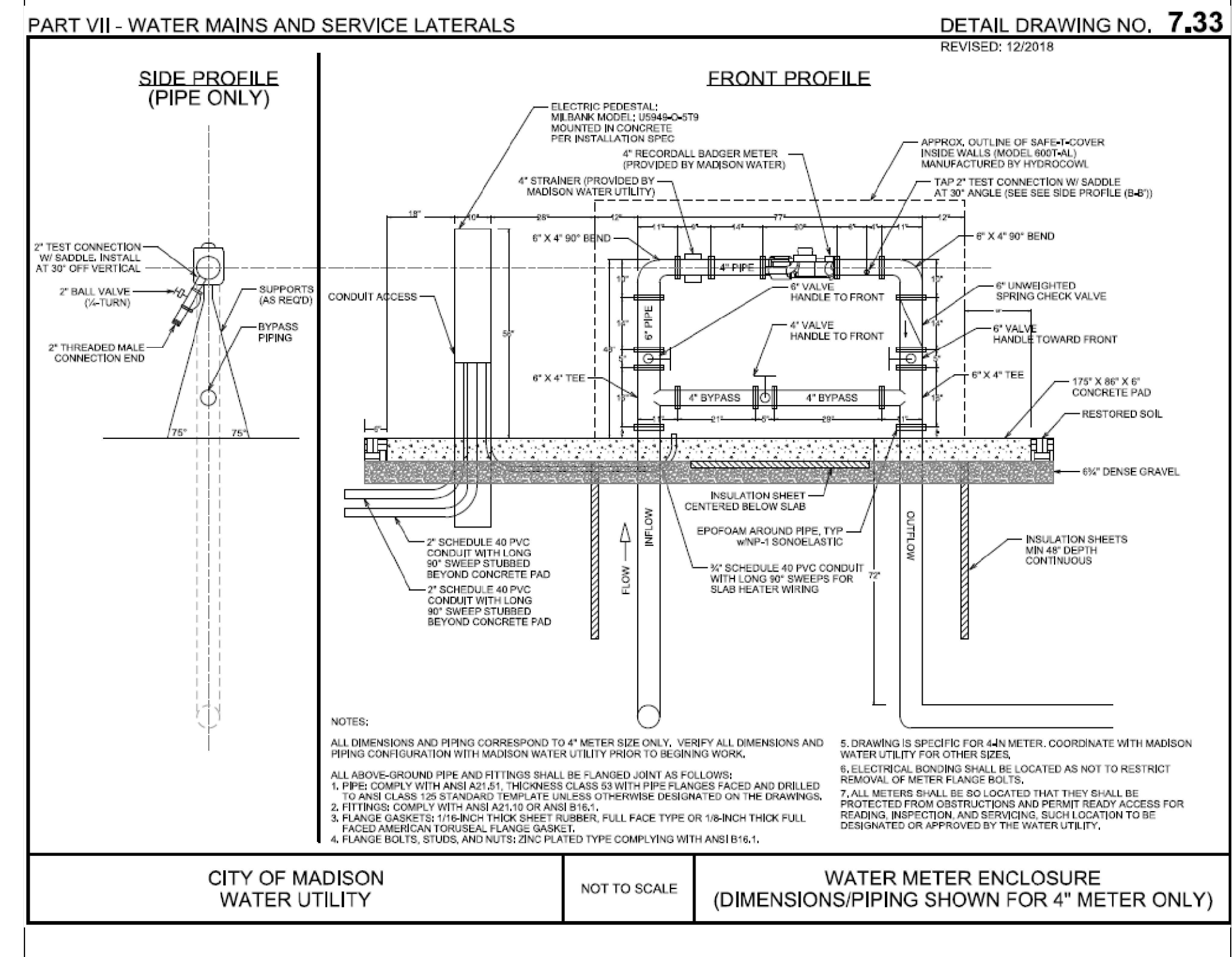


- NOTES:**
- THE LINER AT THE BOTTOM OF THE BIORETENTION AREA CAN BE CONSTRUCTED OF CLAY OR A SYNTHETIC LINER. LINER MUST FOLLOW THE SPECIFICATIONS BELOW.
 - CLAY LINER SHALL BE TWO FEET THICK WITH 50% FINES AND FOLLOW NRCS WISCONSIN CONSTRUCTION SPECIFICATION 300, CLAY LINERS.
 - HDPE, PVC, OR PPL LINERS 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 ACCORDINGLY.
 - PLANT SPECIES SHALL BE SELECTED FROM THE FOLLOWING LIST:
FROBS; MARSH MILKWEED, HEATH ASTER, NEW ENGLAND ASTER, WILD WHITE INDIGO, SPOTTED JOE PYE WEED, BONSET PRAIRIE BLAZING STAR, MARSH BLAZING STAR, CARDINAL FLOWER, GREAT BLUE LOBELIA, WILD BERGAMOT, OBEIDIENT PLANT, MOUNTAIN MINT, YELLOW CONEFLOWER, BLACK-EYED SUSAN, SWEET BLACK-EYED SUSAN, OHIO GOLDENROD, SPIDERWORT, BLUE VERVAIN AND IRONWEED.
GRASSES, SEDGES & RUSHES: FRINGED BROME, BLUE JOINT GRASS, BEBB-S SEDGE CRAWFORD'S SEDGE, FRINGED SEDGE, COMMON FOX SEDGE, CANADA WILD RYE, VIRGINIA WILD RYE, REED MANNA GRASS, SWITCH GRASS, DARK-GREEN BULLRUSH, WOOL GRASS, INDIAN GRASS, PRAIRIE CORD GRASS.
 - 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.

BIORETENTION NOTES



5 C 401 WATER METER ENCLOSURE
NOT TO SCALE

FIRE STATION 14 TRAINING - PHASE 1

MISCELLANEOUS DETAILS

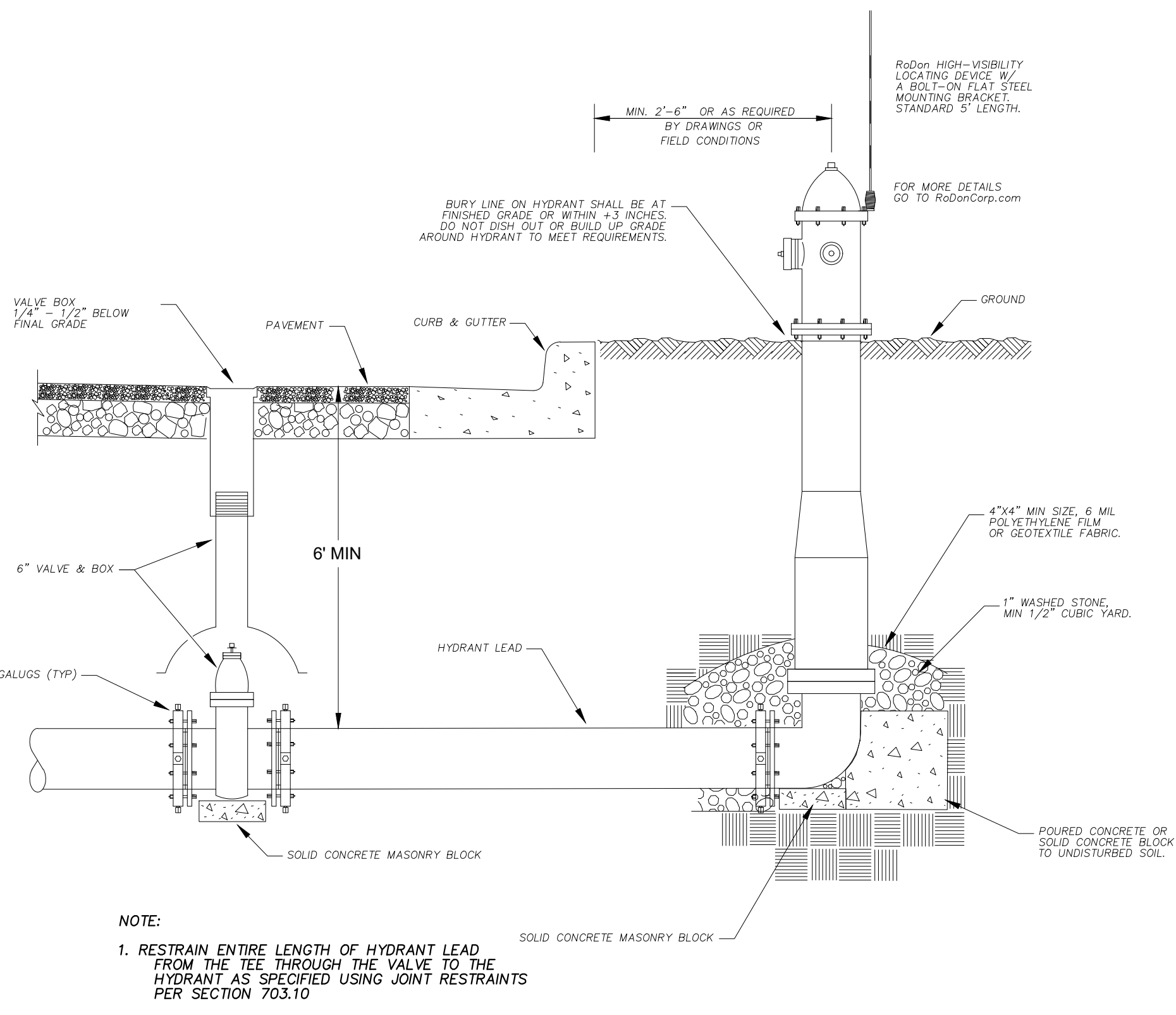
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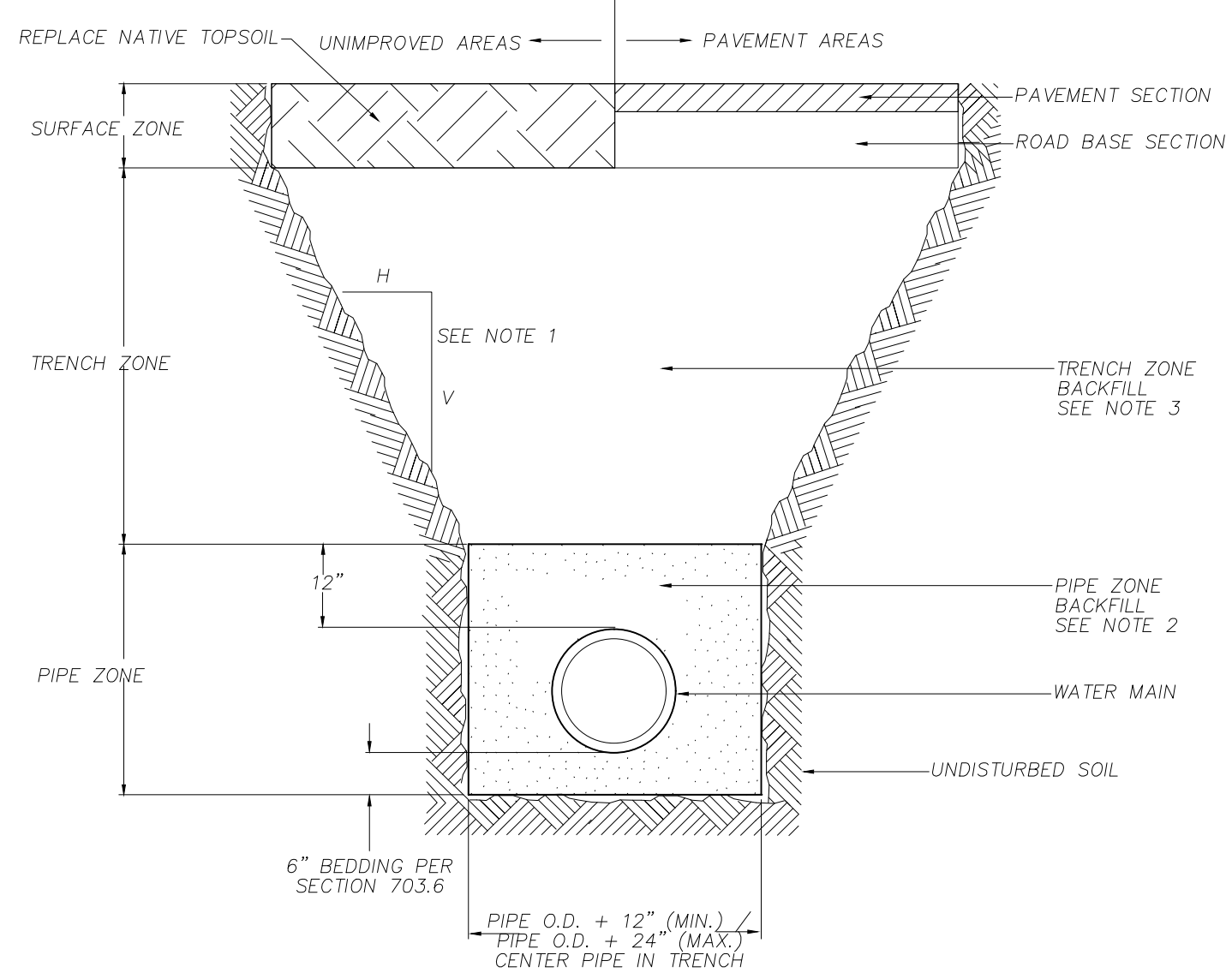
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Technician: MW	Date: 4-27-2023	T-R-S: TTN-RRV-SS	

Project No: 123.0461.30
Sheet C 401



1 STANDARD HYDRANT DETAIL
C 401



NOTES:
1. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE WISCONSIN ADMINISTRATIVE CODE FOR "TRENCH EXCAVATION AND TUNNEL CONSTRUCTION" AND ANY ADDITIONAL REQUIREMENTS INCLUDING IN THE CONTRACT DOCUMENTS.
2. BACKFILL OPERATIONS SHALL COMPLY WITH SECTIONS 703.6 AND 202.2(B) OF THE STANDARD SPECIFICATIONS.
3. THE PIPE ZONE BEDDING MATERIAL SHALL CONSIST OF SELECT FILL SAND, LIMESTONE SCREENINGS, CLEAR STONE, OR WASHED GRAVEL.
4. SEE SECTION 703.6.1 FOR BACKFILL/COMPACTION REQUIREMENTS OF BEDDING/COVER MATERIAL IN THE PIPE ZONE.
5. TRENCH ZONE COMPACTION REQUIREMENTS:
-- ALL COMPACTION OPERATIONS SHALL COMPLY WITH SECTION 703.6.3 DENSITY REQUIREMENTS:
1. FROM 2'-FEET OVER THE PIPE TO WITHIN 3'-FEET OF THE SUBGRADE: A MINIMUM OF 90% OF MAXIMUM DENSITY.
2. WITHIN 3'-FEET OF THE BOTTOM OF SUBGRADE: A MINIMUM OF 95% OF MAXIMUM DENSITY.

3 TYPICAL WATER PIPE TRENCH
C 401

FIELD INSTALLATION-POLYETHYLENE WRAP

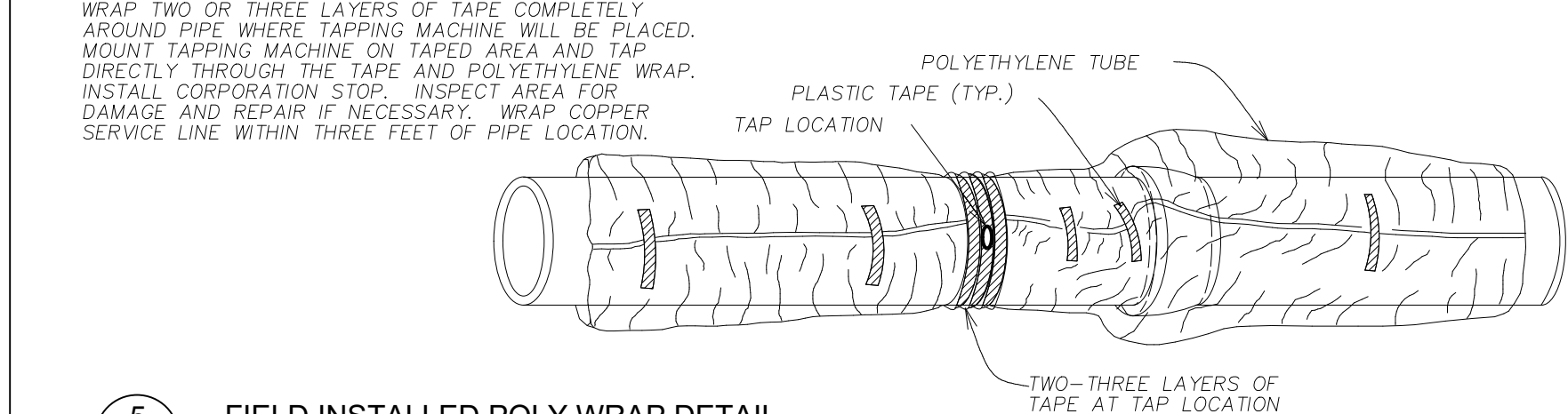
STEP-1
CLEAN SURFACE OF PIPE. CUT POLYETHYLENE TWO FEET LONGER THAN THE PIPE (8 MIL MIN.). PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH. DIG BELL HOLES AT JOINTS, LOWER PIPE.

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.

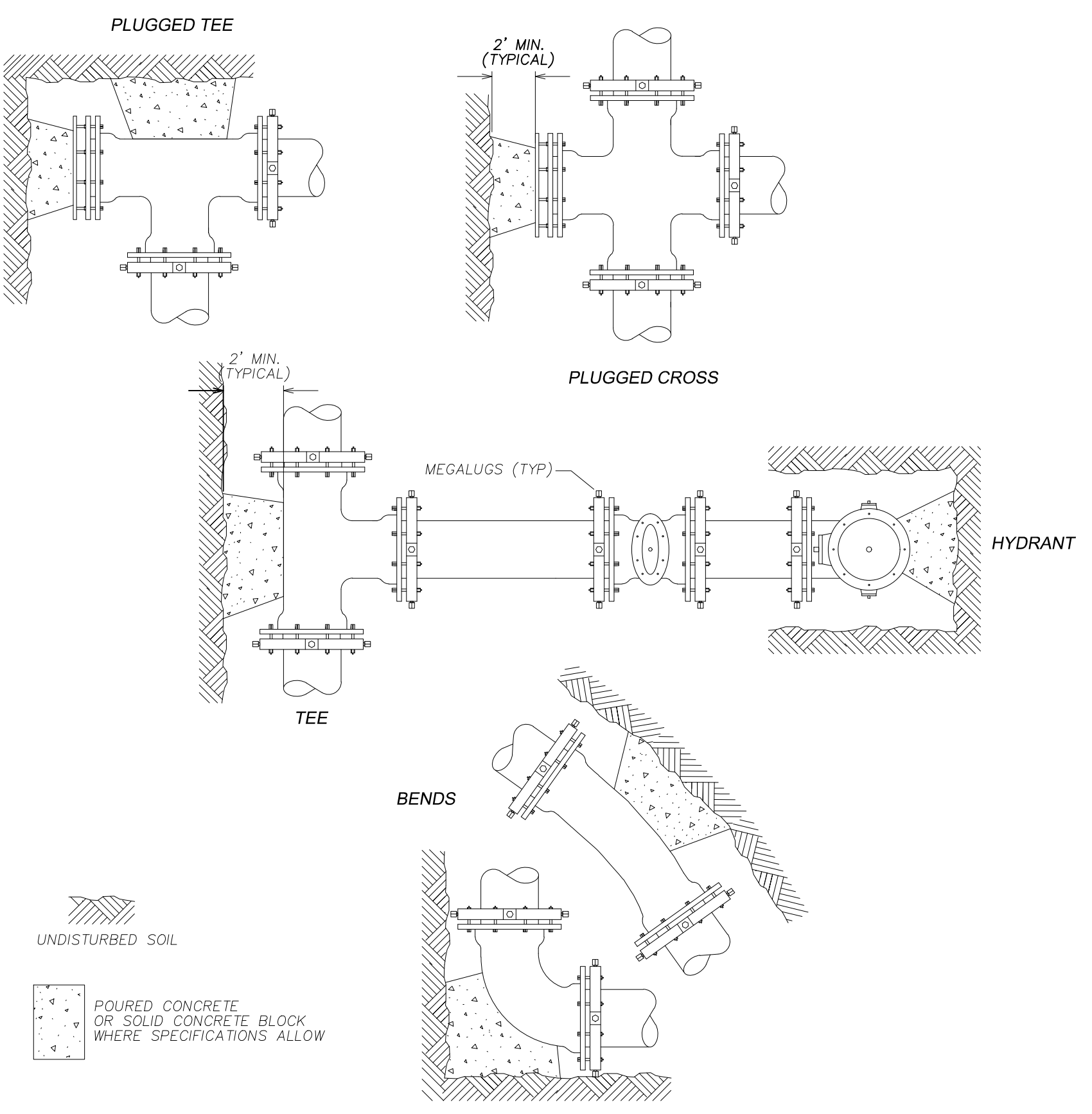
STEP-3
ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC 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

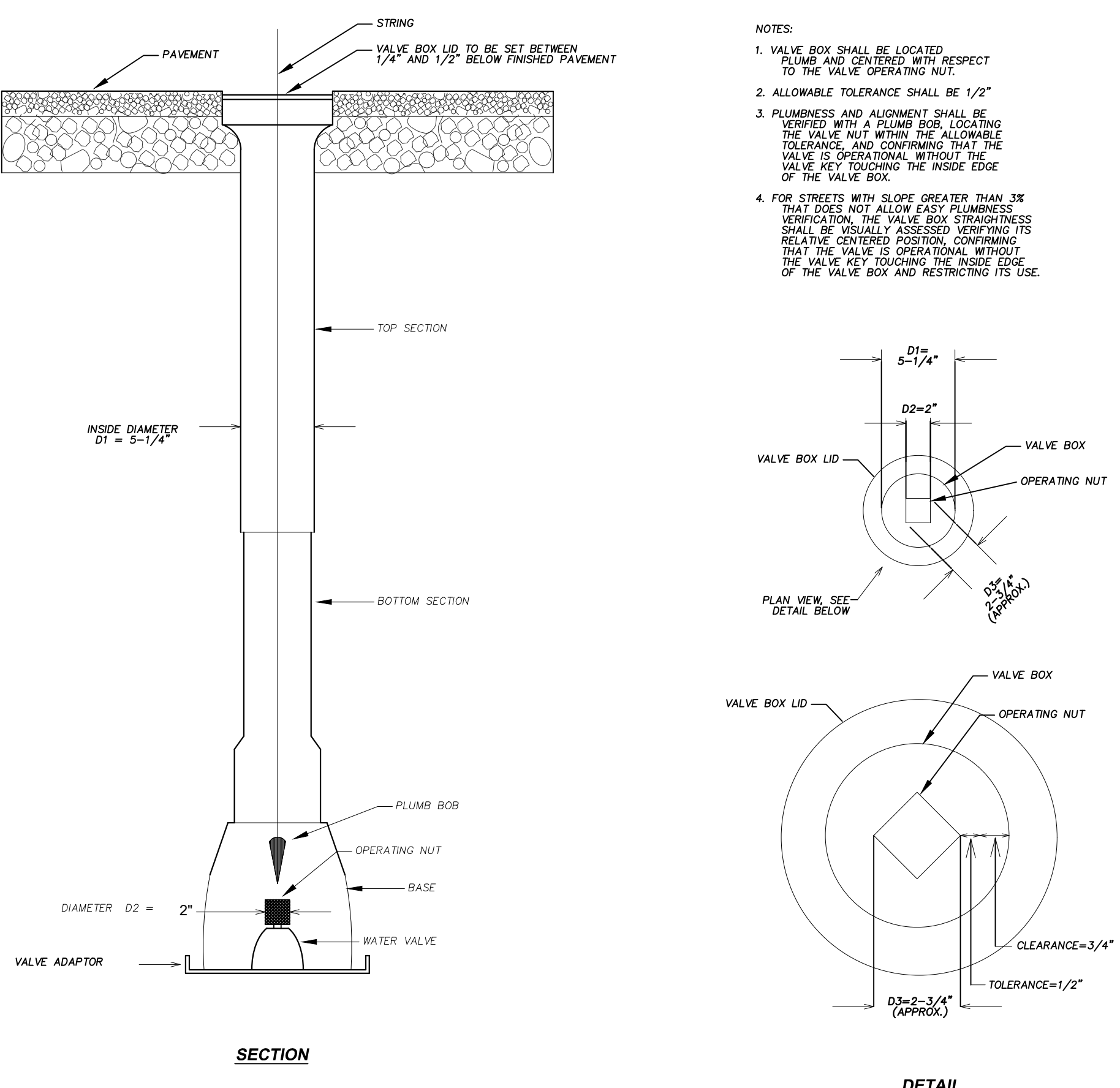
STEP-1
WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND PIPE WHERE TAPPING MACHINE WILL BE PLACED. MOUNT TAPPING MACHINE ON TAPPED AREA AND TAP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE WRAP. INSTALL CORPORATION STOP. INSPECT AREA FOR DAMAGE AND REPAIR IF NECESSARY. WRAP COPPER SERVICE LINE WITHIN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



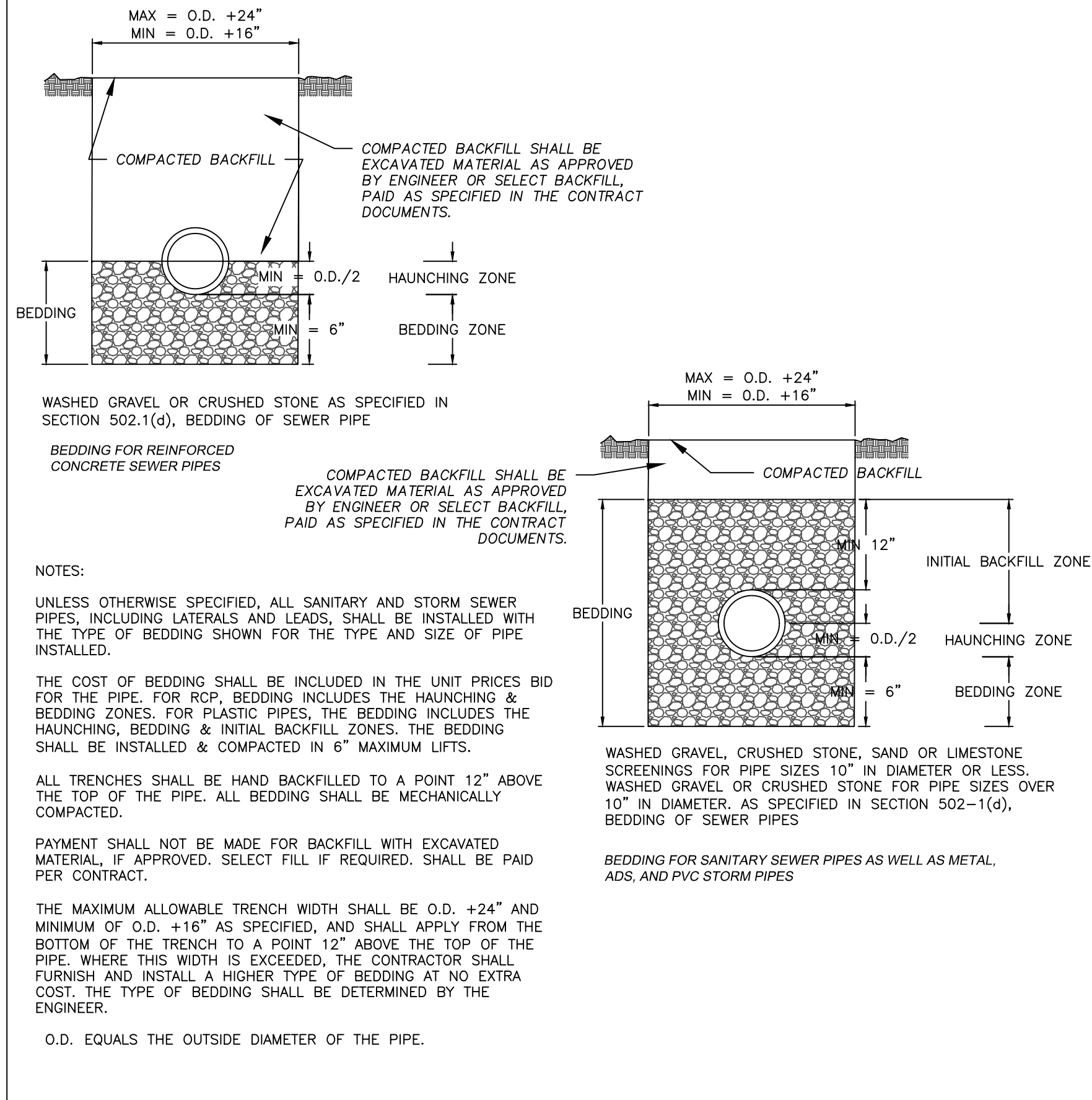
5 FIELD INSTALLED POLY WRAP DETAIL
C 401



2 CONCRETE THRUST BLOCK DETAILS
C 401



4 WATER VALVE BOX DETAIL
C 401



6 PIPE BEDDING DETAIL
C 401

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Technician: MW	Date: 4-27-2023		

Project No: 123.0461.30

Sheet C 402

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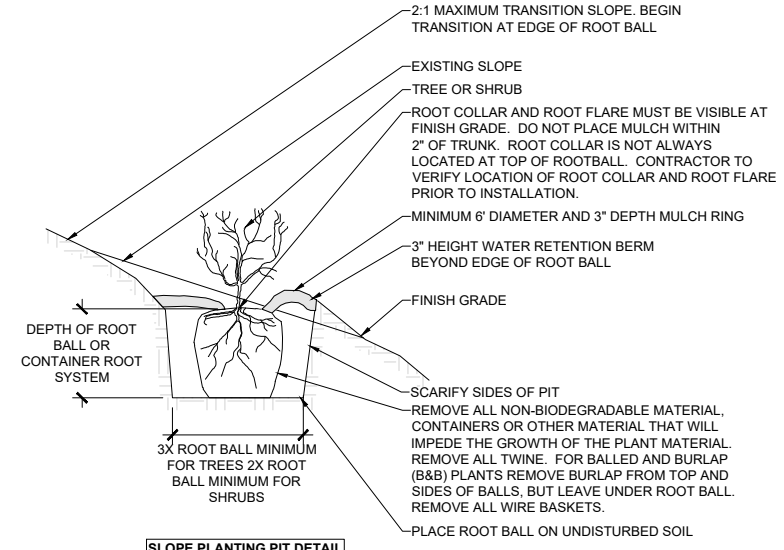
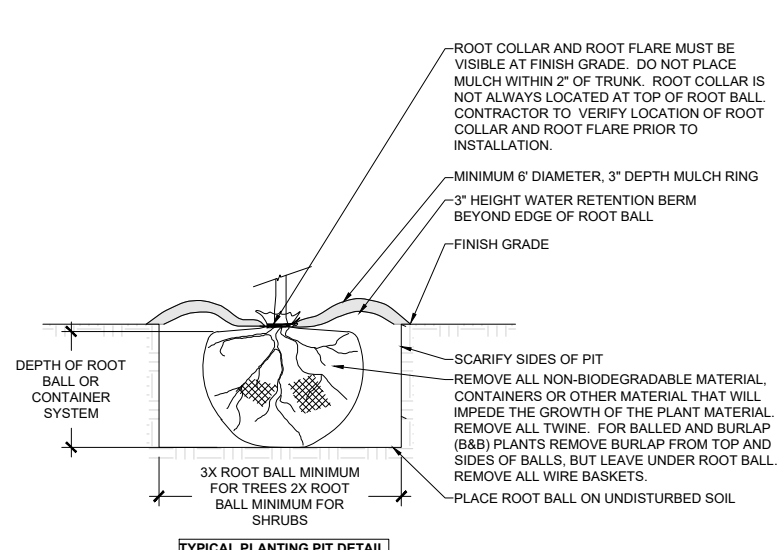
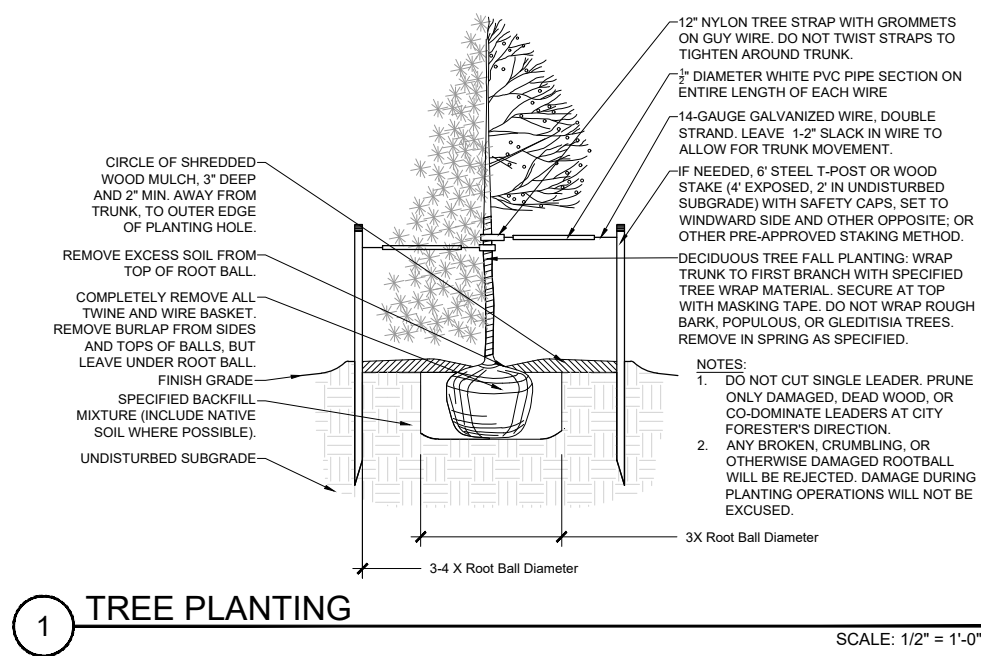
Sheet C 402

FIRE STATION 14 TRAINING - PHASE 1
 WATER DETAILS



GENERAL LANDSCAPE NOTES

- 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.
- 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.
- 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.
- ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).
- 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.
- ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS.
- TREE OR SHRUB SHALL STAND PLUMB. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR PLANTS AWAITING INSTALLATION AND SHALL PROTECT THEM FROM INJURY AND THEFT.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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".
- ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION PER RATE IDENTIFIED BY A SOIL TEST.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDDED AND RESTORED WITH SPECIFIED SEED MIX.
- WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
- 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 SLEEVING PRIOR TO PLACEMENT OF PAVEMENT.
- 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.
- 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.
- ALL TREES PLANTED WITHIN RIGHT-OF-WAY WILL INCLUDE CITY APPROVED ROOT BARRIERS.



2 PLANTING PIT

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Technician: TECH	Date: MM-DD-YYYY	T-R-S: TTR-RRW-SS	

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FIRE STATION 14 TRAINING - PHASE 1

LANDSCAPE NOTES AND DETAILS

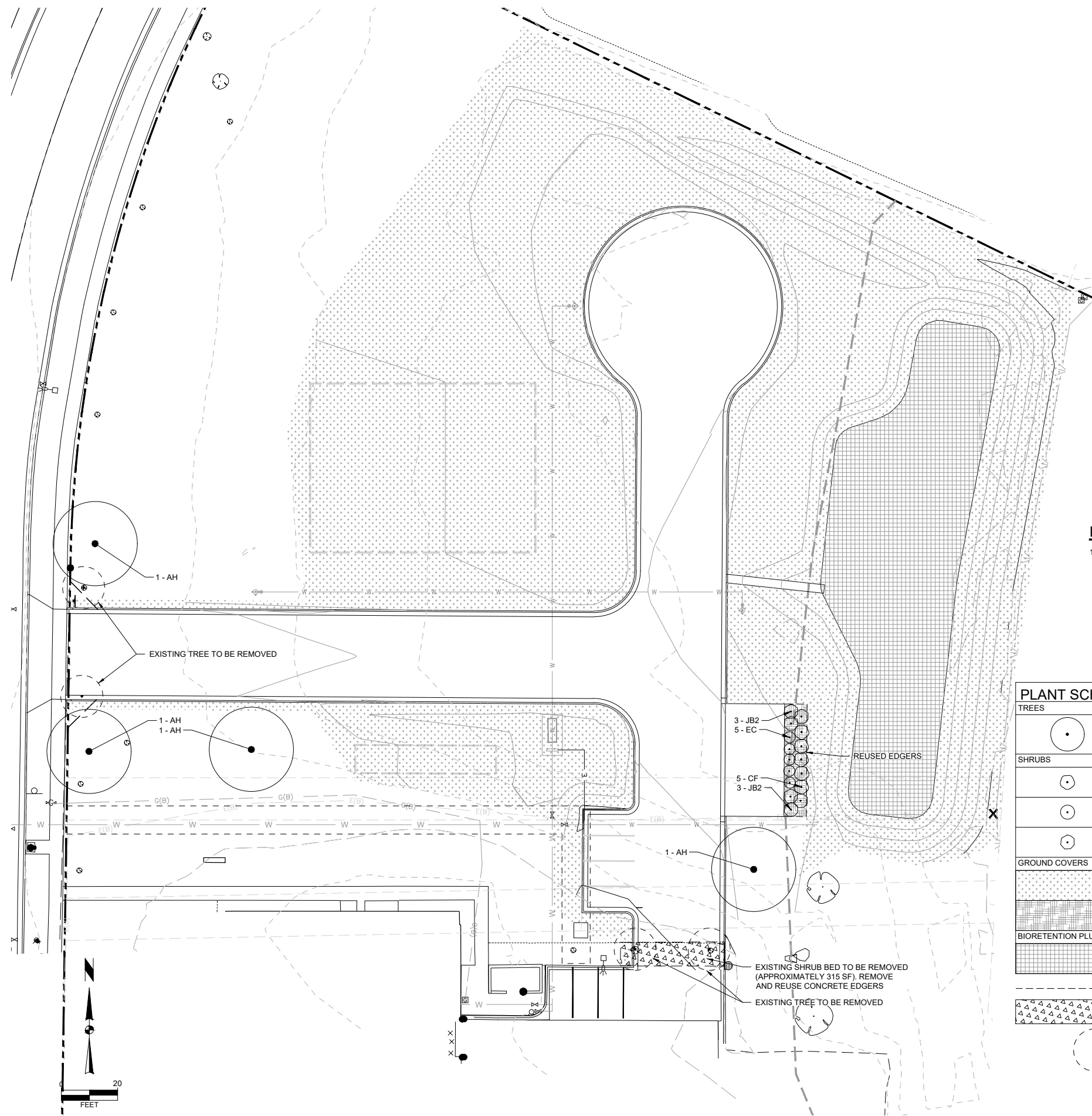
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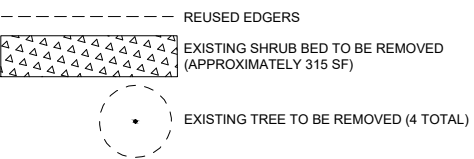


LANDSCAPE CONSTRUCTION NOTES

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



FIRE STATION 14 TRAINING - PHASE 1

PLANTING PLAN

MADISON, WISCONSIN

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Sheet L 200

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