

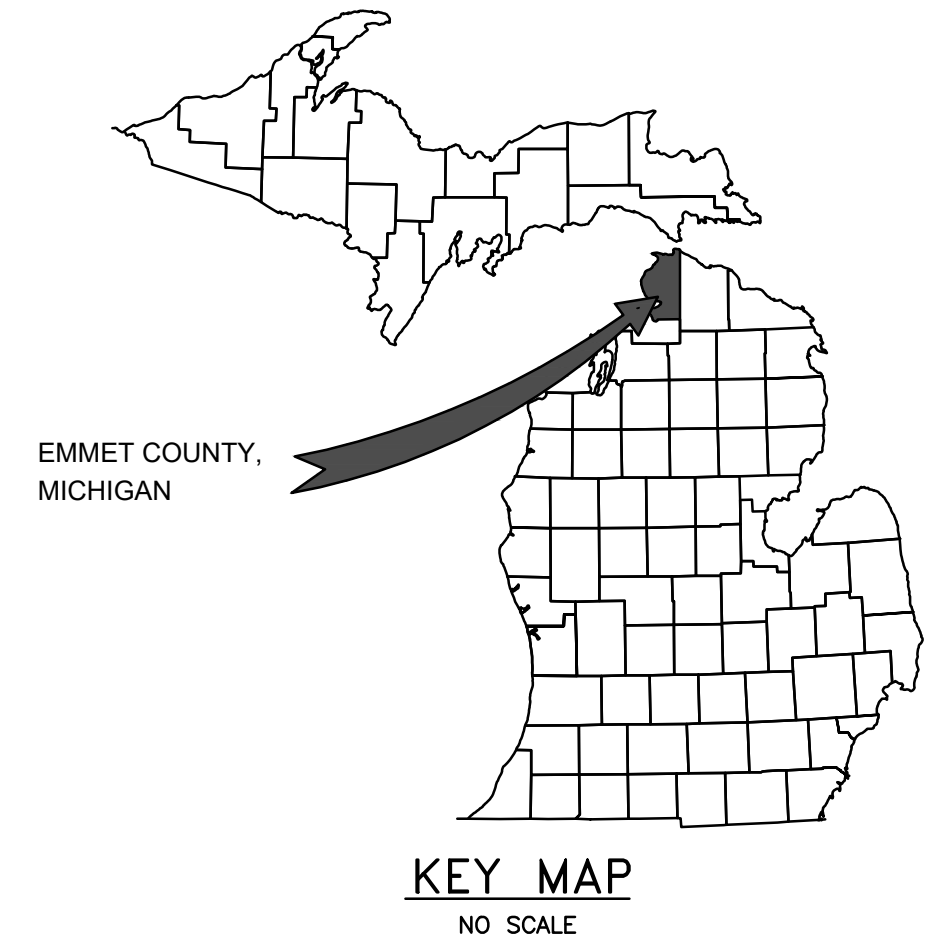


LITTLE TRAVERSE BAY BANDS OF ODAWA INDIANS

CONSTRUCTION PLANS FOR

GOVERNMENTAL COMPLEX

YOUTH CENTER SITE IMPROVEMENTS



UTILITIES & MUNICIPALITIES

GAS
DTE ENERGY
1250 MICHCON LANE
KALKASKA, MICHIGAN 49646
CONTACT: MATT LOGAN
PHONE: 231.492.7479

ELECTRIC
GREAT LAKES ENERGY
1323 BOYNE AVE.
BOYNE CITY, MICHIGAN 49712
CONTACT: JOE McHUGH
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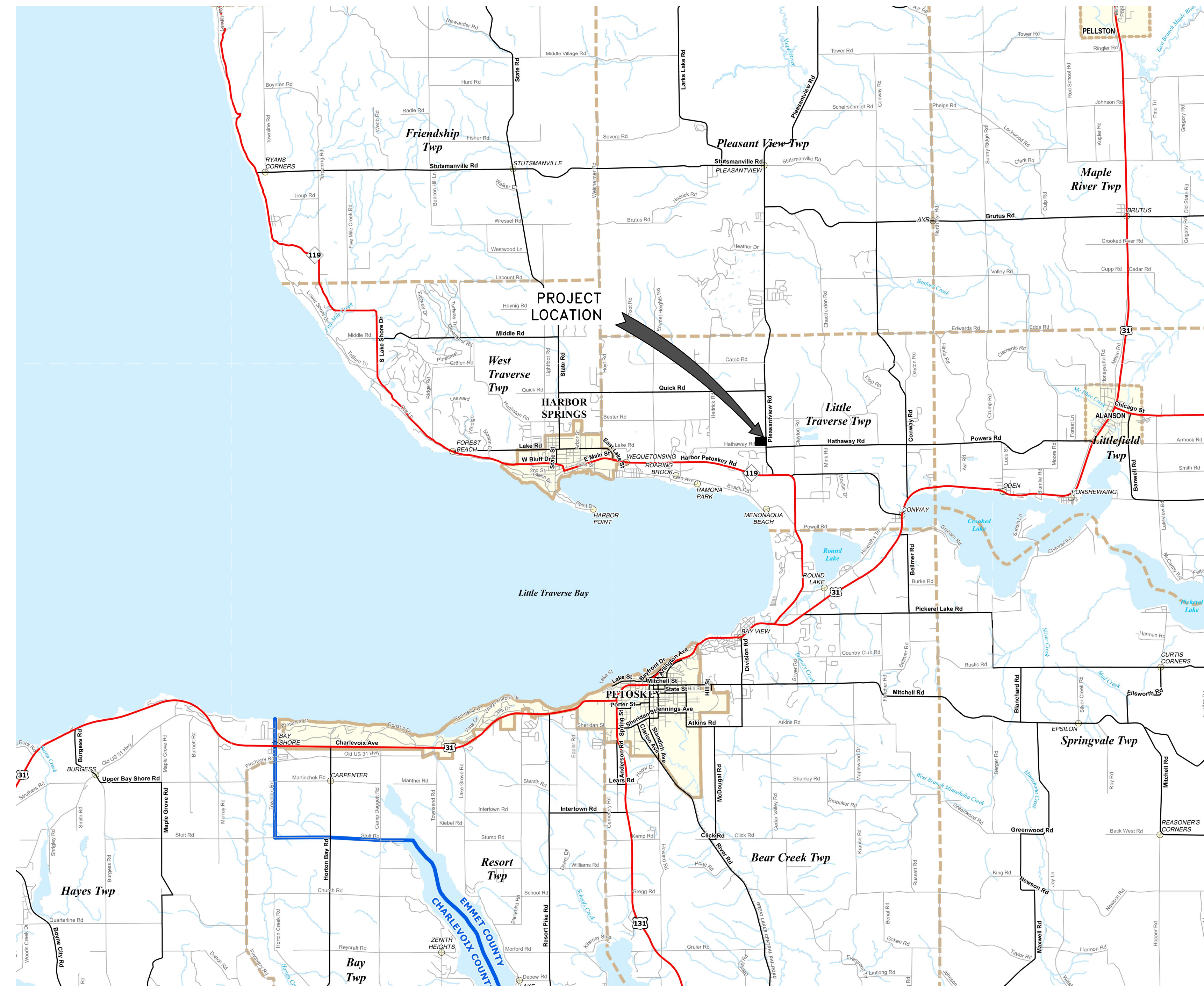
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AT&T
514 MITCHELL
PETOSKEY, MI 49770
CONTACT: JEFF COLLARD
PHONE: 231.348.8010

LITTLE TRAVERSE BAY BAYS OF ODAWA
INDIANS - PLANNING DEPARTMENT
7500 ODAWA CIRCLE
HARBOR SPRINGS, MICHIGAN 49740
CONTACT: AMANDA SWISS
PHONE: 231.242.1508

GENERAL NOTES

THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS, EXCEPT AS MODIFIED BY THESE PLANS AND SPECIAL PROVISIONS.



LOCATION MAP

NO SCALE
LITTLE TRAVERSE TWP, EMMET COUNTY
T35N, R5W, SECTION 9

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PROJECT DESCRIPTION: YOUTH CENTER SITE PLAN, CLEARING, CONSTRUCTION OF PARKING AREA, WATER SERVICE, ON-SITE SEPTIC FIELD, ELECTRICAL EXTENSION; SITE RESTORATION; AND ALL OTHER MISCELLANEOUS APPURTENANCES.

JOB NO. **ODW2035.01G** SHEET **G-001**



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PREPARED UNDER THE SUPERVISION OF:

PAUL M. REPASKY
REGISTRATION NO: 6201037233



Know what's below.
Call before you dig.

DAILY FLOW:
TYPE OF ESTABLISHMENT: SCHOOLS, DAY WITH CAFETERIA
BUT WITHOUT GYM OR SHOWER; 20 GPD/PERSON)

=> 100 PPL (STUDENTS + STAFF) X 20 GPD = 2,000 GPD

DESIGN FLOW = 2,000 GPD

SEPTIC FIELD:
APPLICATION RATE (FINE TO MEDIUM SAND): 0.75 GPD/SFT (SEE SOIL INFORMATION BELOW)

REQUIRED ABSORPTION AREA: 2,000 GPD / 0.75 GPD/SFT = 2,667 SFT

ABSORPTION BED SYSTEM DIMENSIONS:
LATERAL SPACING: 4 FT
LATERAL LENGTH: 52 FT

ABSORPTION BED BOTTOM OF GRAVEL PROPOSED AREA:
48' X 56' = 2,688 SFT

SEPTIC TANK SIZING:
REQUIRED SIZE: 24 HR; 2,000 GALLONS RETENTION VOLUME

PROPOSED TANK CAPACITY: (1) 2,600 GALLON TWO-COMPARTMENT SEPTIC TANK AND (1)
PROPOSED 1,000 GALLON DOSING TANK

SEPTIC FIELD DOSING WITH EFFLUENT PUMP:
VOL. OF PIPE PER DRAIN FIELD ZONE (12 LATERALS, 1 HEADER, 1 FOOTER EA.): 712 LFT OF 4"
DIA PVC @ 0.09 CFT/LFT = 64.1 CFT = 479 GAL

PROPOSED DAILY DOSE SCHEDULE: 5 DOSES PER DAY (479 GAL/DOSE) AT MAX DESIGN FLOW OF 2,000 GPD.

[illegible]

THE CONTRACTOR SHALL INSTALL DRAINFIELD, SEPTIC TANKS, AND EFFLUENT TANK, THEN CALL FOR ENGINEER TO INSPECT PRIOR TO COVERING THE DRAINFIELD.

CONTRACTOR SHALL DEMONSTRATE PUMP PERFORMANCE ON CLEAN WATER THROUGH ONE COMPLETE PUMPING CYCLE. ENSURE A CLEAN WATER SOURCE CAPABLE OF FILLING THE LIFT STATION IS AVAILABLE AT THE TIME OF INSPECTION. CHECK FOR MOTOR OVERLOAD OF PUMPS BY TAKING AMPERE READINGS. CONFIRM EVEN FLOW THROUGH DISTRIBUTION LATERALS.

CONTRACTOR SHALL GRADE TOP OF DRAINFIELD SUCH THAT DRAINAGE OR POSITIVE SLOPE IS PROVIDED.

PERFORATED PLASTIC PIPE AND FITTINGS SHALL COMPLY WITH THE MICHIGAN DEPARTMENT OF PUBLIC HEALTH STANDARDS FOR CERTIFICATION AND UTILIZATION OF PERFORATED TUBING FOR DRAINFIELDS

DRAINFIELD SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC.

AVOID CONSTRUCTION PRACTICES THAT CAUSE COMPACTION AND SMEARING OF THE INFILTRATIVE SURFACE.

EXCAVATION SHALL NOT REMAIN OPEN FOR EXTENDED PERIOD OF TIME OR
SUBJECTED TO INCLEMENT WEATHER.

HAND AUGER #1 (HA #1)
0" - 6" - TOPSOIL
6" - 2.5' - FINE SAND (SP), BROWN, W/TRACE SILT, DRY
2.5' - 5' - FINE TO MEDIUM SAND (SP), LIGHT BROWN, MOIST

HAND AUGER #2 (HA #2)
0" - 6" - TOPSOIL
6" - 1' - FINE SAND (SP), BROWN, W/TRACE SILT, DRY
1' - 5' - FINE TO MEDIUM SAND (SP), LIGHT BROWN, MOIST

NOTE: NO GROUNDWATER ENCOUNTERED.



SCALE: 1"=2'

MISS DIG UTILITY ALERT
THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISS DIG UTILITY PROTECTION SERVICE (1-800-482-7171 OR 811) TO VERIFY THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.

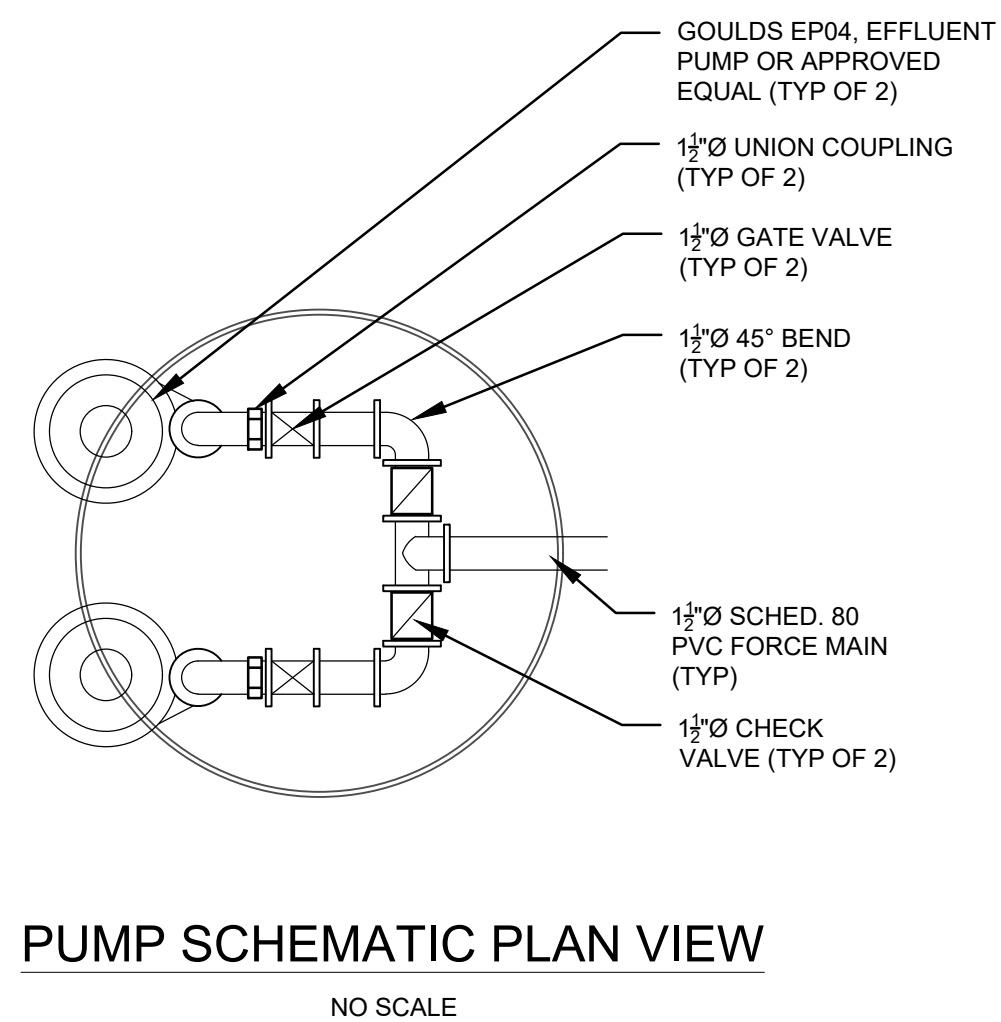
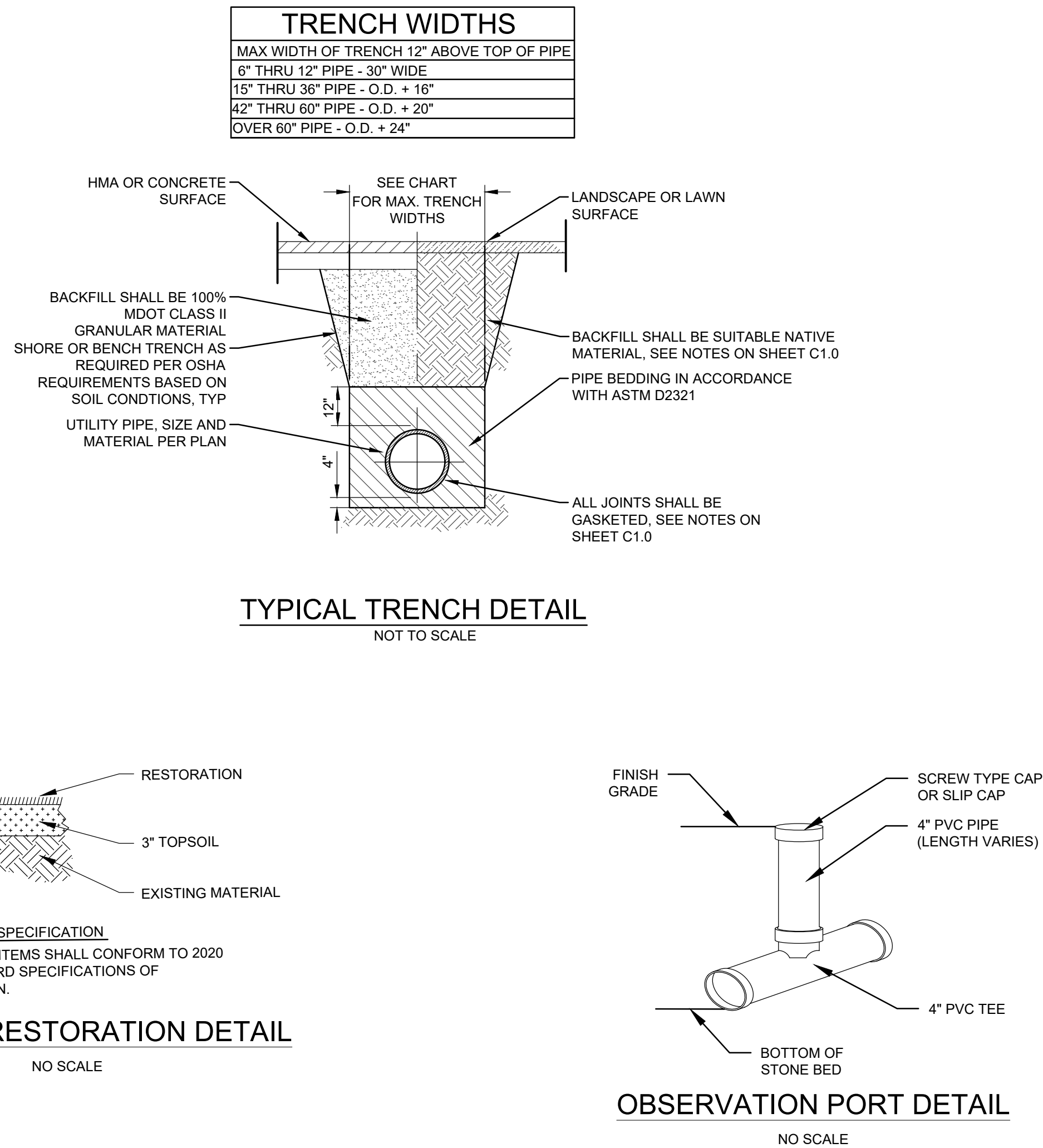
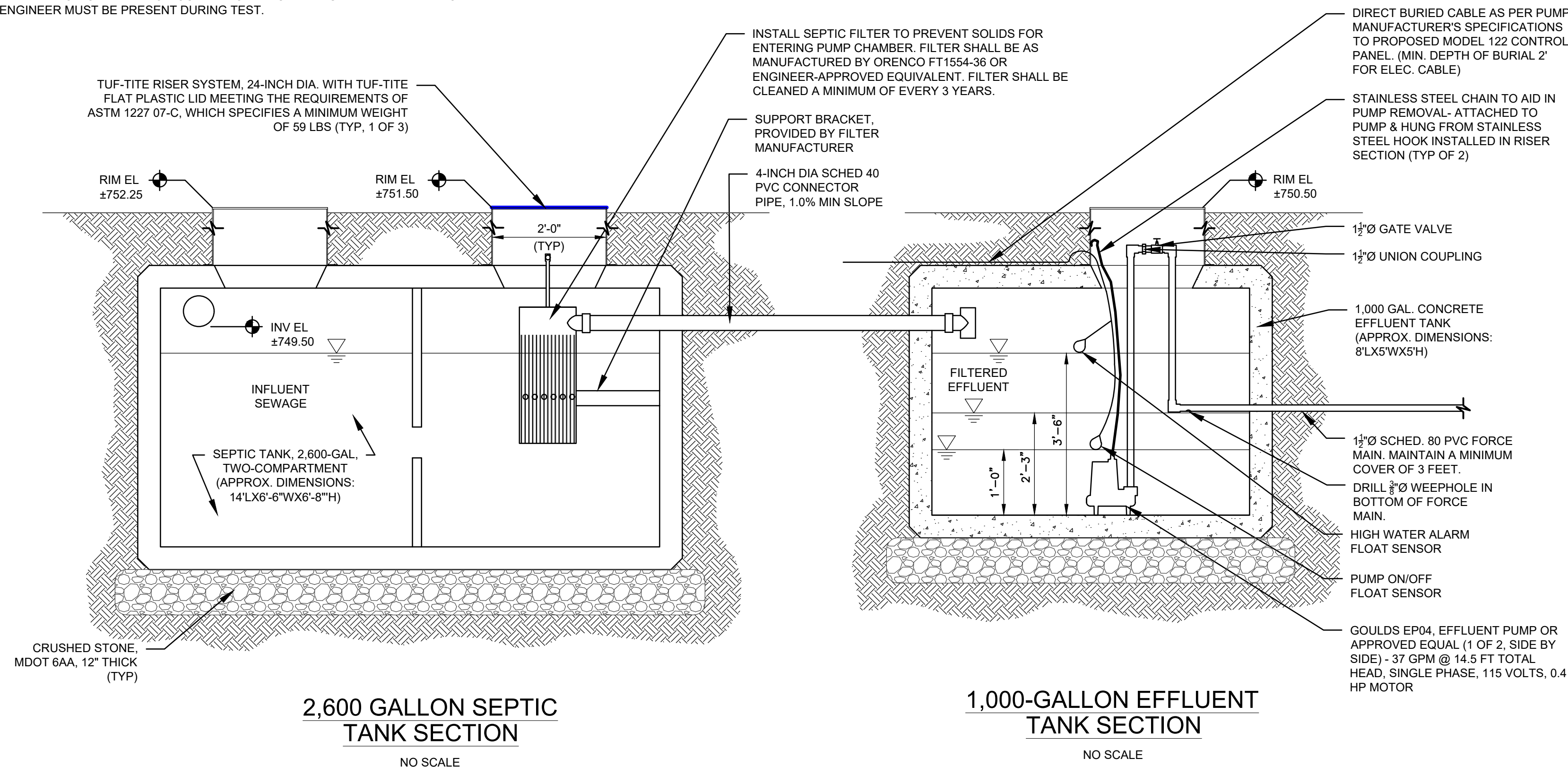
MIOSHA SAFETY REQUIREMENTS

WORK PRACTICES AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SAFETY GUIDELINES, OCCUPATION, HEALTH AND ENVIRONMENTAL REGULATIONS, AND ALSO NFPA AND ANSI CODES AS APPLICABLE. WORK INSIDE A CONFINED SPACE, SUCH AS MANHOLES OR OTHER UNDERGROUND STRUCTURES, SHALL BE COORDINATED WITH THE UTILITY OWNER, AND WORKER SAFETY REQUIREMENTS STRICTLY ENFORCED. CONTRACTOR SHALL HAVE ITS SAFETY PLAN ON FILE WITH OWNER AND ONE (1) COPY ON SITE AT ALL TIMES.

SURFACE RESTORATION
DISTURBED AREAS SHALL BE RESTORED IN STRICT COMPLIANCE WITH THE SOIL RESOURCES AND SEDIMENTATION SPECIFICATIONS AND TO THE SATISFACTION OF OWNER AND LOCAL MUNICIPALITY. THE DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AS BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES. SHALL BE CONSIDERED INCLUSIVE AND AT NO ADDITIONAL COST TO OWNER. AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE A 3-INCH APPLICATION OF SCREENED TOPSOIL, FERTILIZED AND SEED. THE TOPSOIL, FERTILIZER AND SEED APPLICATION SHALL BE SUPERVISED BY THE PROJECT SUPERVISOR. CONTRACTOR SHALL DISPOSED OF PROPERLY. GROUND SURFACES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER PRIOR TO FINAL APPROVAL.

SEPTIC TANKS AND DOSING TANK TO BE LEAK TESTED BY MEANS OF A HYDROSTATIC PRESSURE TEST. FILL TANKS TO THE SOFFIT AND LET STAND FOR MIN. 24 HOURS. AFTER, FILL TANK ABOVE RISER SEAM AND MONITOR FOR EXFILTRATION OVER A TWO HOUR PERIODS. NO LEAKAGE IS PERMISSIBLE OVER THE TWO HOUR PERIOD. ENGINEER MUST BE PRESENT DURING TEST.

GRANULAR MATERIAL - MDOT CLASS II SAND
OPEN GRADED AGGREGATE - MDOT 6A OR AASHTO #57
DENSE GRADED AGGREGATE - MDOT 22AA CRUSHED LIMESTONE

[illegible]

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7500 ODAWA CIRCLE
HARBOR SPRINGS, MICHIGAN 49740
YOUTH CENTER SITE IMPROVEMENTS
PROPOSED SANITARY
DEAILS AND NOTES

ISSUED FOR:	DATE:	BY:
Prelim Review	08/18/26	PMR
Bidding	08/21/26	PMR

JOB NO.
ODW2036.01G

SHEET

C-005

LITTLE TRAVERSE BAY BANDS OF ODAWA INDIANS - GOVERNMENTAL COMPLEX - YOUTH CENTER SITE IMPROVEMENTS

PLANT SCHEDULE

SYM.	ABR.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.
		TREES			
	AR	ACER RUBRUM	RED MAPLE	1.5-2.5" CAL.	2
	AS	ACER SACCHARUM	SUGAR MAPLE	1.5-2.5" CAL.	2
	AA	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	5-6' HT.	6
	BP	BETULA PAPIRIFERA	PAPER BIRCH	1.5-2.5" CAL.	4
	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7-8' HT.	4
	MA	MALUS X ADSTRINGENS 'DURLEO'	GLADIATOR CRABAPPLE	1.5-2.5" CAL.	8
	PR	PINUS RESINOSA	RED PINE	7-8' HT.	5
		SHRUBS			
	IV	ILEX VERTICILLATA	WINTERBERRY	3-5 GAL.	5
	PO	PHYSOCARPUS OPULIFOLIUS	COMMON NINEBARK	3-5 GAL.	4
		SEED MIXES			
		DELUXE POLLINATOR MIX		LBS	26

PLANTING MIXTURE NOTES

1. MIXTURE SHALL BE A MIXTURE OF 6 PARTS TOPSOIL, 4 PARTS MEDIUM-COARSE SAND, AND 1 PART COMPOST. ADD FERTILIZER AT THE QUANTITY AS RECOMMENDED BY THE MANUFACTURER. PLANTING MIXTURE SHALL BE FREE FROM STICK, STONES, SOD CLODS, OR OTHER MATERIAL WHICH MIGHT LEAVE POCKETS AROUND THE ROOTS.
2. TOPSOIL
 - 2.1. TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY CLAY LOAM WITHOUT ADMIXTURE OF SUBSOIL. TOPSOIL IS TO BE FREE OF GLASS, STONES GREATER THAN ONE (1) INCH IN ANY DIMENSION, WEEDS, UNDESIRABLE GRASSES AND OTHER EXTENSIVE MATERIAL. TOPSOIL SHALL HAVE THE FOLLOWING RANGE OF VALUES:

pH	5.0 TO 7.5
SOLUBLE SALTS	500 PPM MAX
ORGANIC CONTENT	5% TO 30%
SILT CONTENT	35% TO 50%
CLAY CONTENT	5% TO 10%
DELETERIOUS MAT'L	5% MAX

"ROCK, GRAVEL, STONE, STICKS, ROOTS, SOD, ETC.
 - 2.2. TOPSOIL IS TO BE FINAL SCREENED THRU A 5/8" MAXIMUM MESH SCREEN PRIOR TO DELIVERY TO THE PROJECT SITE. ENGINEER SHALL REVIEW SOURCE AND FINAL SCREEN RESULTS PRIOR TO RELEASE OF TOPSOIL. CONTRACTOR SHALL SUBMIT A CERTIFIED ANALYSIS OF THE TOPSOIL FROM EACH SOURCE TO THE ENGINEER. TOPSOIL SHALL BE PLACED IN 4-INCH MINIMUM THICKNESS THROUGHOUT.
3. SAND FOR PLANTING MIXTURE SHALL BE CLEAN, MEDIUM-COARSE, UNGRADED SAND CONFORMING TO ASTM C3 FOR FINE AGGREGATES.
4. COMPOST SHALL BE COMPOSTED PINE BARK FINES OR OTHER HIGH-LIGNIN BARK FROM SPRUCE, FIR, OR OTHER CONIFERS.



Native Connections

3815 N Westnedge Ave, Kalamazoo, MI 49004
(P) 269.459.6900
info@nativeconnections.net
www.nativeconnections.net

Solar Shortgrass Mix

While not purely native*, this mix has enough diversity to handle shade and sun in a dry-mesic environment surrounding a solar array. It can provide a low maintenance, low profile habitat as the solar panels soak up the sun.

Total Seeding Rate: 31.2 lbs per acre
3.78 lbs grasses • 2.42 lbs forbs • 25 lbs nurse crop
82.06 native seeds per sq ft

Call, email or visit our website for pricing.

Grasses, Sedges & Rushes		PLS Oz/	Seeds/sq ft
<u><i>Bouteloua curtipendula</i></u>	Side-oats Grama	40.00	5.51
<u><i>Bouteloua gracilis</i></u> *	Blue Grama Grass*	16.00	14.69
<u><i>Juncus tenuis</i></u>	Path Rush	0.50	11.48
<u><i>Koeleria cristata</i> (K. <i>macrantha</i>, <i>pyramidalis</i>)</u>	June Grass	2.00	9.18
<u><i>Poa Palustris</i></u>	Fowl Bluegrass	2.00	5.97
Total Grasses		60.50	46.83

Forbs	PLS Oz/ Seeds/sq ft
<i>Achillea millefolium</i>	Yarrow 1.00 4.09
<i>Allium cernuum</i>	Nodding Wild Onion 1.00 0.17
<i>Aquilegia canadensis</i>	Wild Columbine 0.65 0.75
<i>Asclepias tuberosa</i>	Butterfly Milkweed 1.00 0.10
<i>Cornopsis lanceolata</i>	Lance-leaf Cornopsis 0.80 3.87
<i>Chamaecrista fasciculata</i>	Partridge Pea 16.00 0.99
<i>Heuchera richardsonii</i>	Prairie Alum Root 0.10 0.10
<i>Lespedeza virginica</i>	Slender Bush Clover 1.00 0.23
<i>Penstemon hirsutus</i>	Hoary Beardtongue 0.30 0.86
<i>Penstemonum tenuifolium</i>	Slender Mountain Mint 2.60 3.30
<i>Rudbeckia hirta</i>	Black-eyed Susan 0.80 16.90
<i>Solidago nemoralis</i>	Old-field Goldenrod 0.25 1.72
<i>Symphoricarpos ericoides</i>	Heath Aster 0.75 0.49
<i>Verbena stricta</i>	Hoary Vervain 0.25 0.75
Total Forbs	38.70 35.23

Temporary Grass Cover		Oz/acre	Seeds/sq ft
<i>Avena sativa</i>	Seed Oats	320.00	7.35
Total Temp Grasses		320.00	7.35

LANDSCAPE NOTES

1. ALL PLANTS TO BE INSTALLED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
2. CONTRACTOR SHALL PROVIDE A PLANTING MIXTURE MEETING THE FOLLOWING REQUIREMENTS. IF THE ENGINEER HAS ANY CONCERNS WITH THE QUALITY OF THE PLANTING MIXTURE, THE ENGINEER SHALL BE ALLOWED TWO WEEKS TO OBTAIN SOIL TEST TO DETERMINE SPECIFICATION COMPLIANCE. NO PLANT MATERIAL SHALL BE PLANTED PRIOR TO ENGINEER APPROVAL OF PLANTING MIXTURE. ALL PLANT MATERIAL SHALL BE MAINTAINED BY THE CONTRACTOR IN A VIGOROUS GROWING CONDITION DURING THIS TIME AT NO ADDITIONAL COST.
3. SPACING OF PLANT MATERIALS SHALL BE AS SHOWN ON DRAWING OR ON PLANT LIST. THE ENGINEER SHALL REVIEW THE PLACEMENT OF PLANT MATERIAL PRIOR TO AND AFTER INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT.
4. ALL PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.A.N. STANDARDS FOR NURSERY STOCK."
5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND REVIEWED BY THE ENGINEER.
6. FINAL PLANT LOCATIONS SHALL BE MARKED BY CONTRACTOR THREE WORKING DAYS PRIOR TO PLANTING FOR ENGINEER REVIEW.
7. ALL PLANTED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS ORIGINAL GRADE BEFORE DIGGING.
8. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY, ETC.) PREVAIL.
9. IF FOR ANY REASON ANY BALLED AND BURLAPED PLANT MATERIALS NEED TO BE STORED ON SITE LONGER THAN A 24-HOUR PERIOD, THEIR ROOT BALLS SHALL BE PROTECTED. ALL PLANTS SHALL BE THOROUGHLY WATERED EACH DAY THEY ARE STORED ON SITE. PLANTS MAY BE STORED ON SITE FOR A MAXIMUM OF TWO (2) WEEKS, OR 14 DAYS. ANY PLANTS ALLOWED TO DRY OUT AS DETERMINED BY THE ENGINEER WILL BE REJECTED.
10. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL WRAPPING MATERIALS MADE OF SYNTHETIC OR PLASTICS SHALL BE COMPLETELY REMOVED AT TIME OF PLANTING.
11. THE CONTRACTOR SHALL FILL PLANT PIT WITH PREPARED PLANT MIX TO ½ DEPTH OF ROOT BALL OR ROOT MASS, PACK FIRMLY, PUDDLE WITH WATER; THEN FOR BALLED AND BURLAPED MATERIAL, THE BURLAP AND ALL LACING (INCLUDING WIRE BASKET IF NECESSARY) SHALL BE REMOVED FROM THE UPPER 1/3 OF ROOTBALL, THEN FINISH BACKFILLING ADDING SOIL FERTILIZER TO THE PLANT MIX, PACK FIRMLY AND WATER. A SAUCER SHALL BE PLACED AROUND EVERY PLANT AND SHALL BE APPROVED PRIOR TO PLACEMENT OF ANY MULCH.
12. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH 4-INCHES OF TOPSOIL, SPREAD, FINE GRADED, AND SEEDED/SODDED AS SPECIFIED. PRIOR TO INSTALLATION OF TOPSOIL, LOOSEN SUBGRADE TO A DEPTH OF 2 INCHES, THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
13. TOPSOIL SHALL CONSIST OF FRIABLE, SHREDDED, AND SCREENED SOIL REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, STONES OR OTHER FOREIGN MATERIALS. THE TOPSOIL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. SOIL COMPOSITION SHOULD CONTAIN AN ORGANIC CONTENT OF 2 TO 6 PERCENT AND BE CLASSIFIED AS A LOAM OR SANDY LOAM AS SPECIFIED IN THE "GUIDE FOR U.S.D.A. SOIL TEXTURAL CLASSIFICATION".
14. ALL TREES AND SHRUBS ARE TO BE FERTILIZED ONCE ROOTS SYSTEM IS ESTABLISHED WITH AGRIFORM 21-GRAM FERTILIZER TABLETS AT RATES RECOMMENDED BY MANUFACTURER.
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
16. AT PLANTING TIME, ALL DEAD AND BROKEN BRANCHES SHALL BE PRUNED ON ALL DECIDUOUS TREES.
17. CONTRACTOR SHALL APPLY ENGINEER APPROVED PRE-EMERGENT HERBICIDE, "PREEN" OR EQUAL, TO SHRUB AND GROUND COVER PLANTING AREAS AT THE TIME OF PLANTING (IF SPRING PLANTED) OR THE FOLLOWING SPRING. CONTRACTOR SHALL ENSURE THE PLANT MATERIALS ARE RESISTANT TO THE HERBICIDES PROPERTIES. HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH SOUND HORTICULTURAL PRACTICES.
18. ALL TREES, SHRUBS AND PERENNIAL GROUND COVER SHALL RECEIVE A MINIMUM DEPTH OF THREE INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. WHERE PLANT BEDS MEET PAVEMENTS, LAWN, OR STEEL EDGING CUT THE GRADE TO ALLOW FOR MULCH AND THREE-INCH DROP FROM ADJOINING FINISH GRADE.
19. ALL PLANT BEDS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8-INCHES AND BACKFILLED WITH SPECIFIED PLANT MIX AS PER PLANTING BED DETAILS. BEDS SHALL BE EDGED WITH METAL EDGING AROUND PERIMETER. ALL EDGING SHALL BE 4" WIDE - 12 GAUGE STEEL, COLOR BLACK. CONTRACTOR SHALL LAYOUT EDGING FOR APPROVAL AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
20. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) FULL YEAR FOLLOWING PLANTING. ALL DISEASED, DAMAGED, OR DEAD MATERIAL SHOWN ON THE SITE PLAN SHALL BE REPLACED BY THE END OF THE FOLLOWING GROWING SEASON.
21. APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHOROUS.

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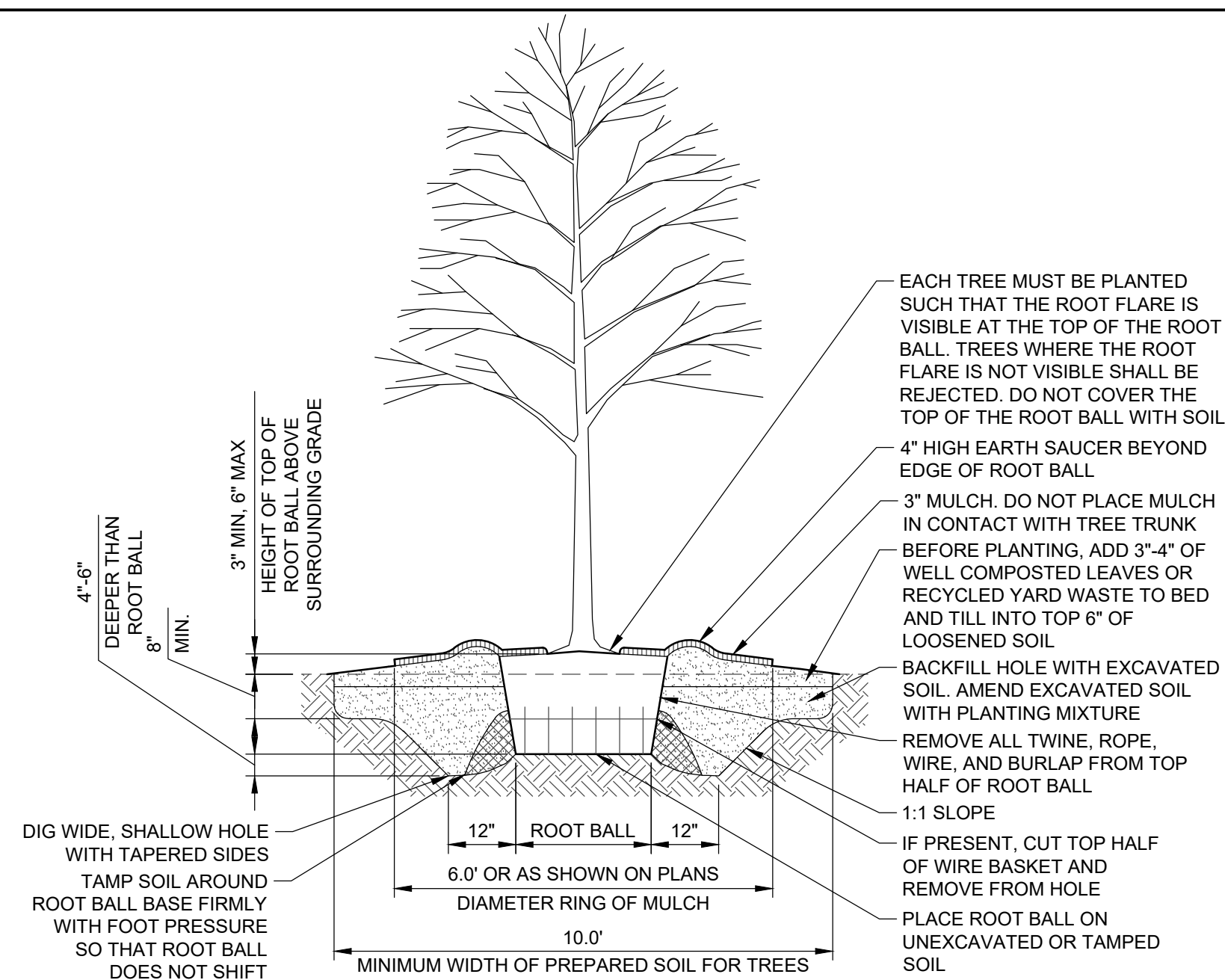
ISSUED FOR:	DATE:	BY:
Prelim Review	08/18/26	PMF
Bidding	08/21/26	PMF

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SHEET

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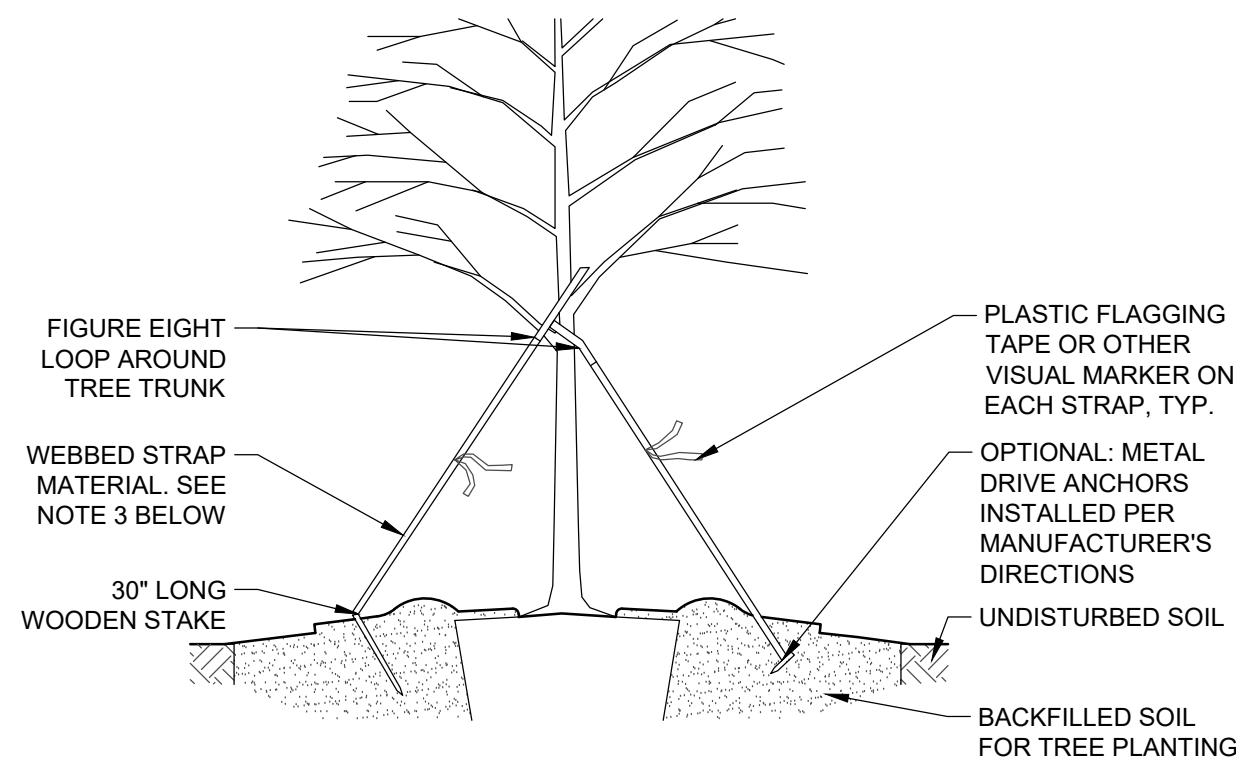


- NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OR THE CONTAINER.
2. AFTER DIGGING HOLE, FILL WITH WATER TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. IF HOLE DOES NOT PERC, DO NOT PLANT TREE. NOTIFY LANDSCAPE ARCHITECT FOR DIRECTION.
3. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL IMMEDIATELY AFTER PLANTING.
4. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
5. PURCHASE TREE WITH ONE CENTRAL LEADER. DO NOT PRUNE TREE AT PLANTING EXCEPT AS DIRECTED BY LANDSCAPE ARCHITECT.
6. SET TREE PLUMB WITH VERTICAL TRUNK.
7. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
8. WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

TREE PLANTING DETAIL

NOT TO SCALE

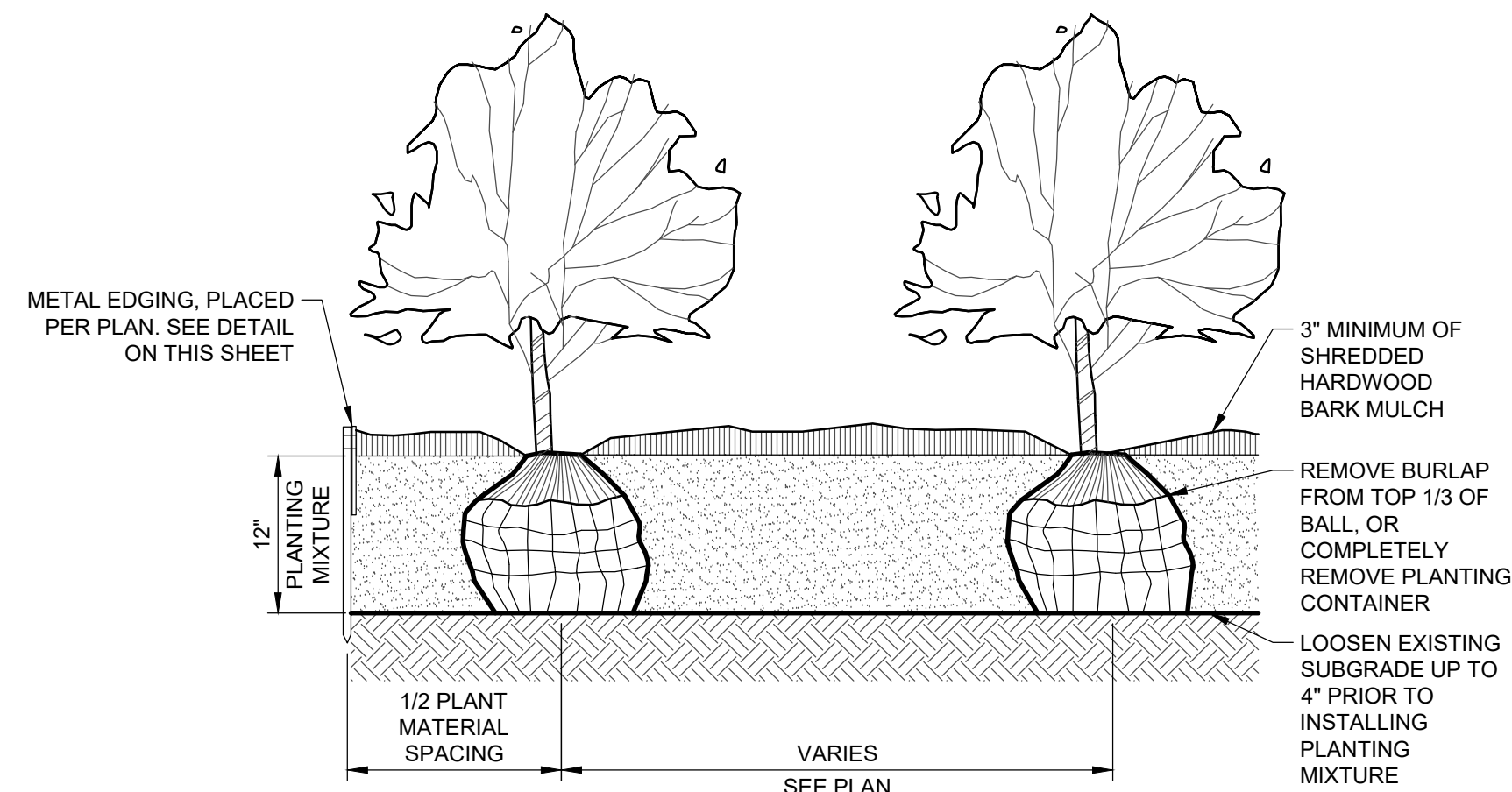


- NOTES:

1. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
2. TIGHTEN WEBBED STRAP MATERIAL ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. INSTALL THREE STRAPS PER TREE, SPACED EVENLY AROUND THE TRUNK. INSTALL AS LOW ON TRUNK AS POSSIBLE.
3. WEBBED STRAP TO BE ARBORTIE OR APPROVED EQUAL.
4. TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.
 - 4.1. TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.
 - 4.2. TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
 - 4.3. PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
 - 4.4. ROOT BALLS PLACED ON VERY SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
 - 4.5. ROOT BALLS WITH VERY SANDY SOIL OR VERY WET SOIL. STAKING ADVISABLE.
 - 4.6. TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

TREE STAKING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE