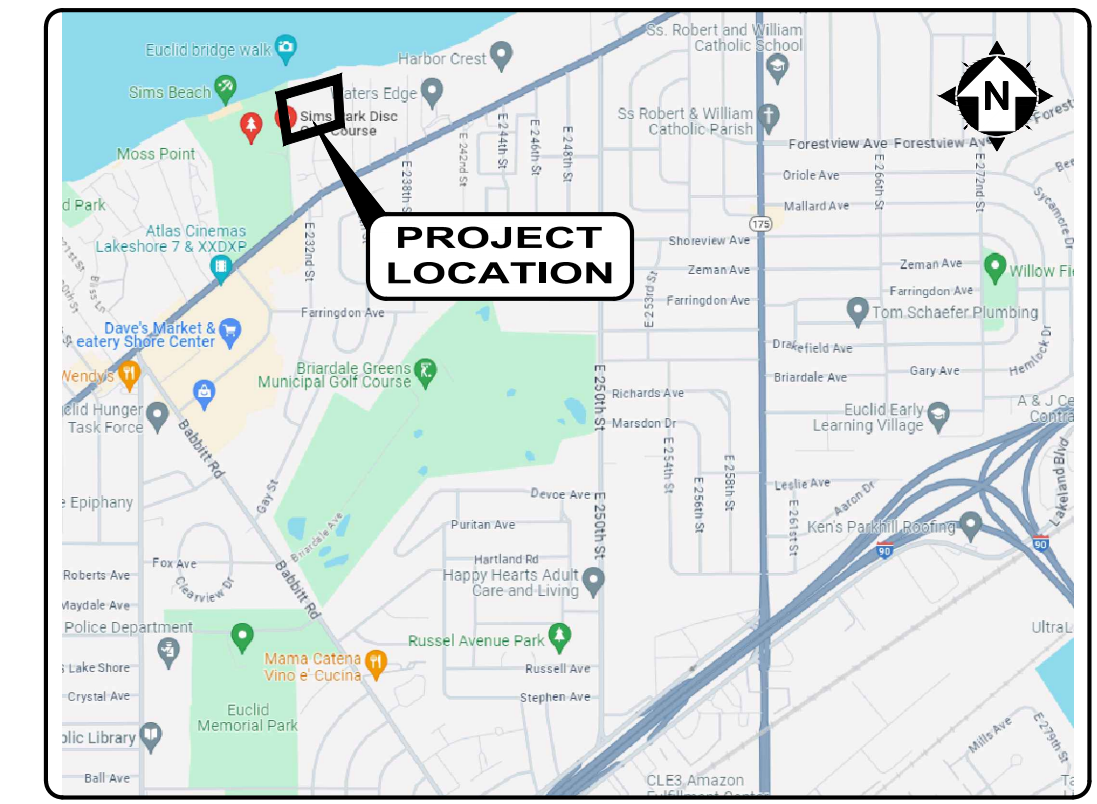
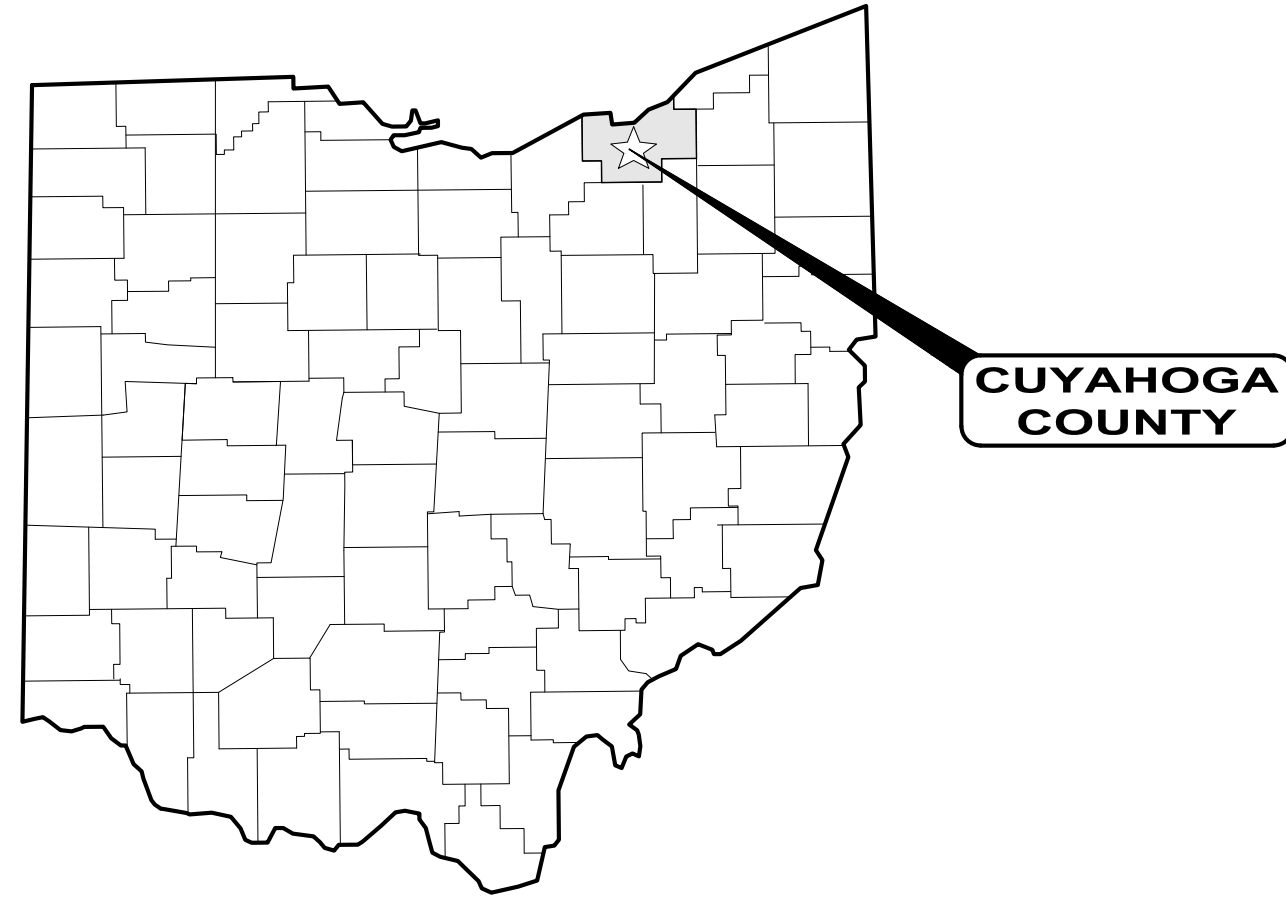


- PARK IMPROVEMENT PLANS FOR - UPLAND SIMS PARK EXPANSION

23131 LAKESHORE BLVD, EUCLID, OHIO
CUYAHOGA COUNTY, OHIO

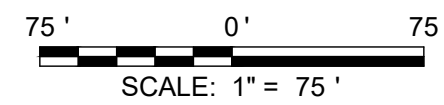
JULY 2024



LOCATION MAP
NTS



INDEX MAP



CONTACTS	
OWNER:	CITY OF EUCLID 525 E 22ND ST. EUCLID, OHIO 44123 PHONE: 216-289-8154 CONTACT: CHRISTINE MCINTOSH, PLANNING MANAGER
SURVEYOR:	CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OHIO 44060 PHONE: 440-951-9000 CONTACT: THOMAS M. MEEKS, P.S.
LANDSCAPE ARCHITECT	CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OHIO 44060 PHONE: 440-530-2372 CONTACT: RICH WASHINGTON, ASLA
ENGINEER	CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OHIO 44060 PHONE: 440-530-2212 CONTACT: LENE HILL, PE, LEED AP

OUPS UTILITY LIST:

WATER
CLEVELAND WATER
1201 LAKESIDE AVE E,
CLEVELAND, OH 44114
(216) 664-3130

TELEPHONE
AT&T
13630 LORAIN AVE., 2ND FLR
CLEVELAND, OH 44111
ATTN: JAMES JANIS
PHONE: (216) 476-6142
FAX: (216) 476-6013

POWER
CEI, FIRST ENERGY
6896 MILLER ROAD
BRECKSVILLE, OH 44141

ATTN: MARK ROBINSON
PHONE: (440) 717-6845
FAX: (440) 546-8780

GAS
DOMINION EAST OHIO
320 SPRINGSIDE DR., STE 320
AKRON, OH 44333
PHONE: (330) 664-2409
FAX: (888) 504-0126

FIBER OPTIC
TIME WARNER CABLE
8179 DOW CIRCLE
STRONGSVILLE, OH 44136
ATTN: GARY NAUMANN
PHONE: (216) 575-8016
FAX: (440) 826-2940

BENCH MARKS

BENCHMARK
SE CORNER AT SOUTH END OF
CONC RETAINING WALL
ELEV=590.31

BENCHMARK
SE CORNER BOTTOM
STEP AT ENTRANCE TO
BLDG #80
ELEV=602.47

- OUPS TICKETS B408701155-00B, B408701150-00B AND B408701155-00B.
- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

Sheet List Table	
Sheet Number	Sheet Title
1	Cover Sheet
2	Layout Plan
3	Layout Plan Details
4	Grading Plan
5	Landscape Plan
6	Restoration Plan
7	Site Details
8	Site Details
9	Specifications
10	General Notes
11	Storm Water Pollution Prevention Plan
12	Storm Water Pollution Prevention Plan
13	Storm Water Pollution Prevention Plan

COUNCIL MEMBERS

- CHARLENE MANCUSO, COUNCIL PRESIDENT
- WALLACE TANNER, WARD 1
- RICHARD TOLTON, WARD 2
- DONTEA GRESHAM, WARD 3
- KRISTIAN D. JAROSZ, WARD 4
- TARA HANNUM, WARD 5
- JOHN M. WOJTLA, WARD 6
- MARYANN DYBIEC, WARD 7
- ANGELA K. STEELE, WARD 8

CITY OFFICIALS:

- KRISTEN HOLZHEIMER GAIL, MAYOR
- DANIEL KNECHT, DIRECTOR OF PUBLIC SERVICE
- PATRICK GROGAN-MYERS, DIRECTOR OF PLANNING AND DEVELOPMENT

SITE DATA

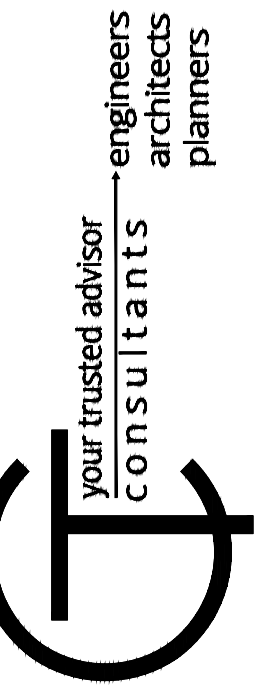
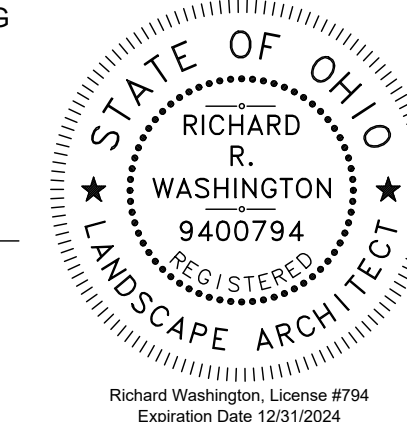
TOTAL PROPERTY AREA:	4.75 AC.
PROJECT DISTURBANCE AREA:	1.65 AC.
PROPOSED IMPERVIOUS AREA:	0.34 AC.
PROPOSED DEVELOPED AREA OF SITE:	0.072 %

DESIGN LANDSCAPE ARCHITECT:

THIS IS TO CERTIFY THAT GOOD ENGINEERING PRACTICES HAVE BEEN UTILIZED IN THE DESIGN OF THIS PROJECT AND THAT ALL MINIMUM STANDARDS FOR FAIRFIELD COUNTY, INCLUDING THOSE STANDARDS GREATER THAN MINIMUM WHERE, IN OUR OPINION, THEY ARE NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. ANY VARIANCES TO THE ABOVE STANDARDS ARE CONSISTENT WITH SOUND ENGINEERING PRACTICES AND ARE NOT DETRIMENTAL TO THE PUBLIC SAFETY AND CONVENIENCE.

Richard Washington
RICHARD WASHINGTON PLA LIC. #1794

07/09/2024
DATE



ISSUED FOR:	FOR REBID:	NO	REVISION	DATE
ISSUE DATE:	7/12/24			
SCALE:	AS SHOWN			
DESIGNED BY:	RRW, RDS			
DRAWN BY:	RDS			
CHECKED BY:	RRW, LH			

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

COVER SHEET

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	CS
SHEET	OF
1	13

LAYOUT NOTES

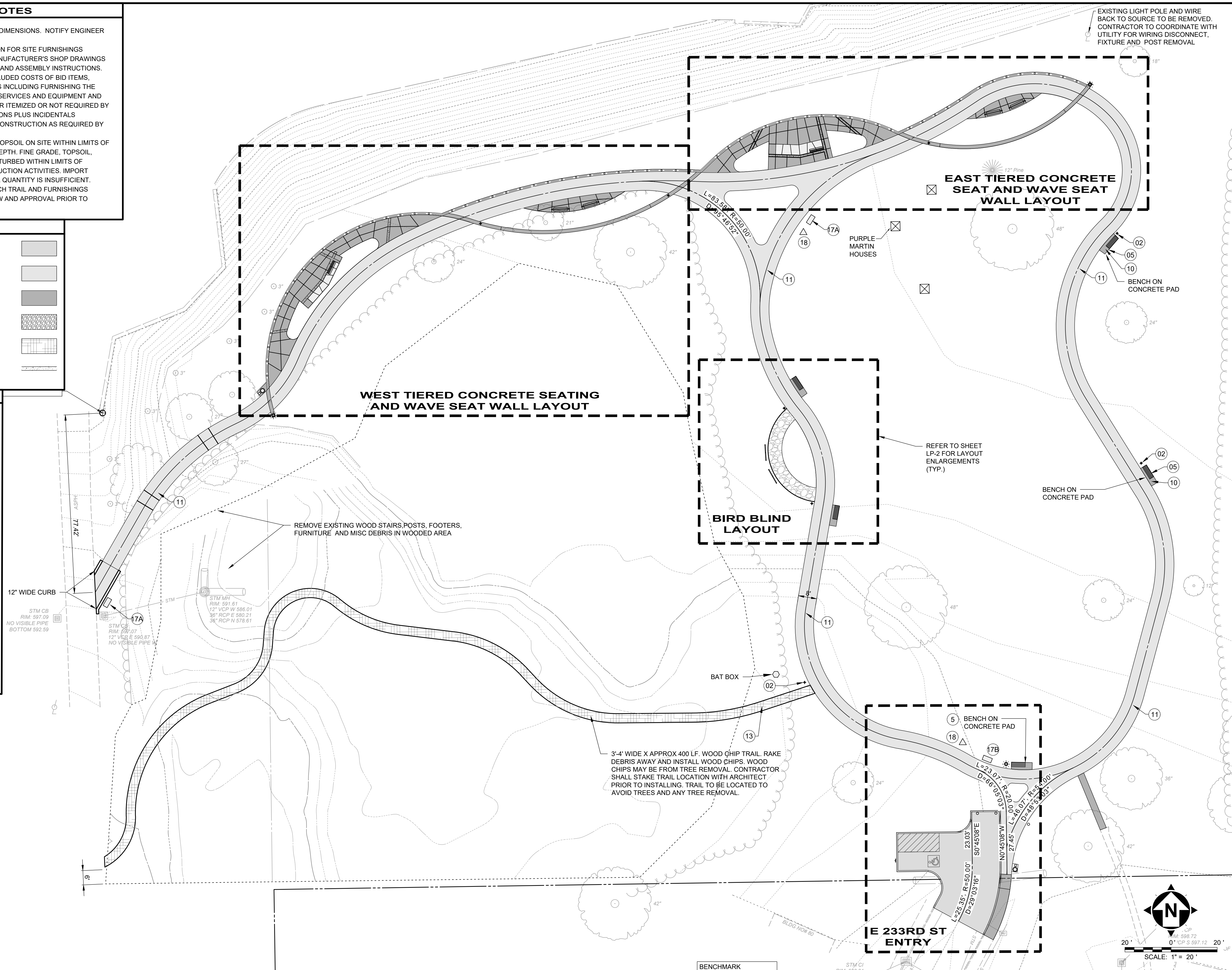
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- REFER TO SPECIFICATION SECTION FOR SITE FURNISHINGS INFORMATION. REFER TO THE MANUFACTURER'S SHOP DRAWINGS FOR FULL INSTALLATION DETAILS AND ASSEMBLY INSTRUCTIONS.
- PRICES TO INCLUDE FOR ALL INCLUDED COSTS OF BID ITEMS, INSTALLATION OF IMPROVEMENTS INCLUDING FURNISHING THE NECESSARY LABOR, MATERIALS, SERVICES AND EQUIPMENT AND PERFORMING ALL WORK WHETHER ITEMIZED OR NOT REQUIRED BY THE DRAWINGS AND SPECIFICATIONS PLUS INCIDENTALS NECESSARY TO COMPLETE THE CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS.
- REDISTRIBUTE ALL STOCKPILED TOPSOIL ON SITE WITHIN LIMITS OF CONSTRUCTION TO 2" MINIMUM DEPTH. FINE GRADE, TOPSOIL, SEED AND MULCH ALL AREAS DISTURBED WITHIN LIMITS OF CONSTRUCTION AND BY CONSTRUCTION ACTIVITIES. IMPORT TOPSOIL/SOIL IF ON SITE TOPSOIL QUANTITY IS INSUFFICIENT.
- CONTRACTOR SHALL STAKE MULCH TRAIL AND FURNISHINGS LOCATIONS FOR OWNER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

LEGEND

- ASPHALT DRIVE (SEE DETAILS)
- ASPHALT PATH (SEE DETAILS)
- CONCRETE WALK (SEE DETAIL)
- GRAVEL TRAIL (SEE DETAILS)
- MULCH TRAIL (SEE DETAILS)
- TEXTURED CONCRETE BAND (SEE DETAILS)

CODED NOTES

- 01 LIGHT POLE
- 02 BOLLARD LIGHT
- 03 WASTE RECEPTACLE
- 04 DOG WASTE STATION
- 05 BENCH
- 06 SURFACE MOUNTED BENCH
- 07 BIRD BLIND
- 08 BENCH SWING
- 09 CONCRETE WAVE WALL
- 10 CONCRETE WALK
- 11 ASPHALT TRAIL
- 12 STONE MULCH TRAIL
- 13 WOOD MULCH TRAIL
- 14 CURB WITH TIMBER
- 16 CONCRETE BAND
- 17 SIGN
- 18 PLACARD SIGN

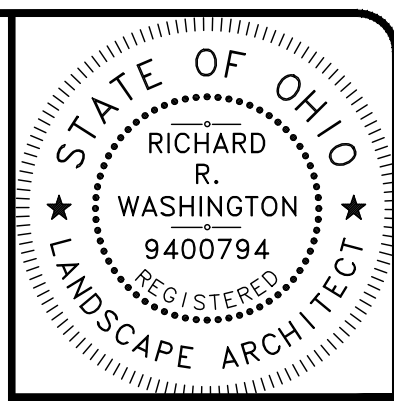


EXISTING LIGHT POLE AND WIRE BACK TO SOURCE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY FOR WIRING DISCONNECT, FIXTURE AND POST REMOVAL.

REMOVE EXISTING WOOD STAIRS, POSTS, FOOTERS, FURNITURE AND MISC DEBRIS IN WOODED AREA

3'-4" WIDE X APPROX 400 LF. WOOD CHIP TRAIL. RAKE DEBRIS AWAY AND INSTALL WOOD CHIPS. WOOD CHIPS MAY BE FROM TREE REMOVAL. CONTRACTOR SHALL STAKE TRAIL LOCATION WITH ARCHITECT PRIOR TO INSTALLING. TRAIL TO BE LOCATED TO AVOID TREES AND ANY TREE REMOVAL.

REFER TO SHEET LP-2 FOR LAYOUT ENLARGEMENTS (TYP.)



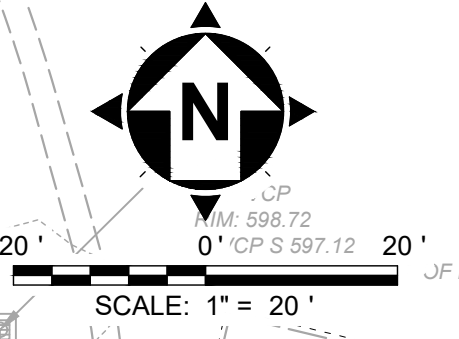
Richard R. Washington, License #734
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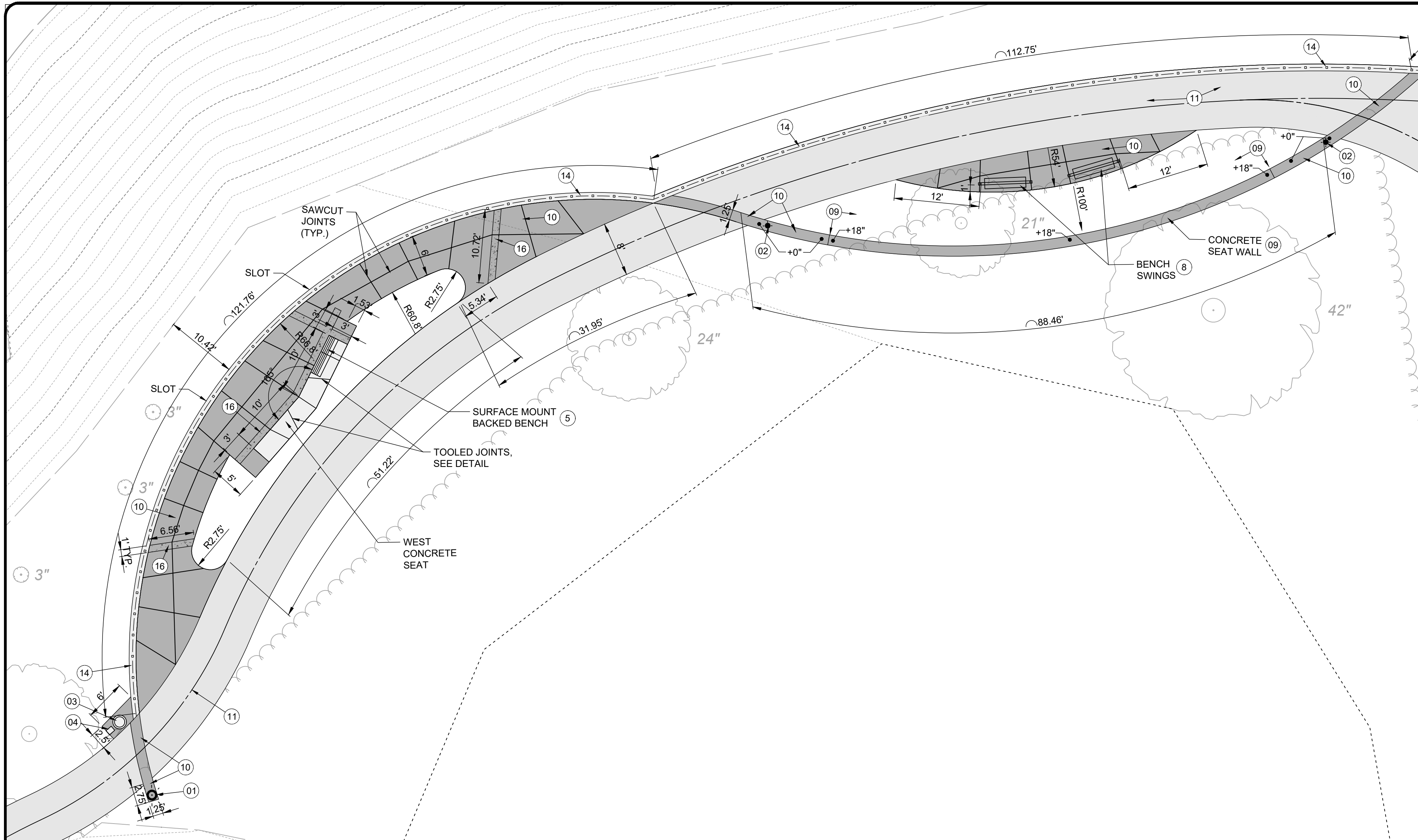
NO	REVISION	DATE

ISSUED FOR:	FOR REBID	7/12/24
ISSUE DATE:	AS SHOWN	
SCALE:	RRW, RDS	
DESIGNED BY:	RDS	
DRAWN BY:	RRW, LH	
CHECKED BY:		

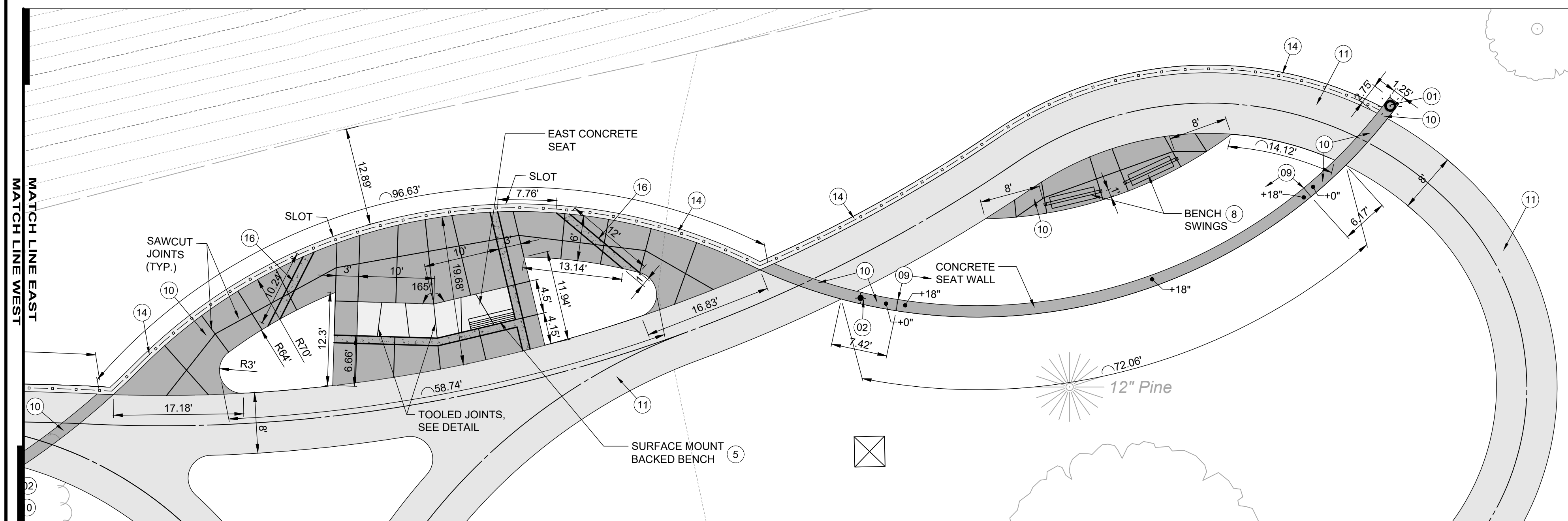
KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	LP-1
SHEET	2
OF	13

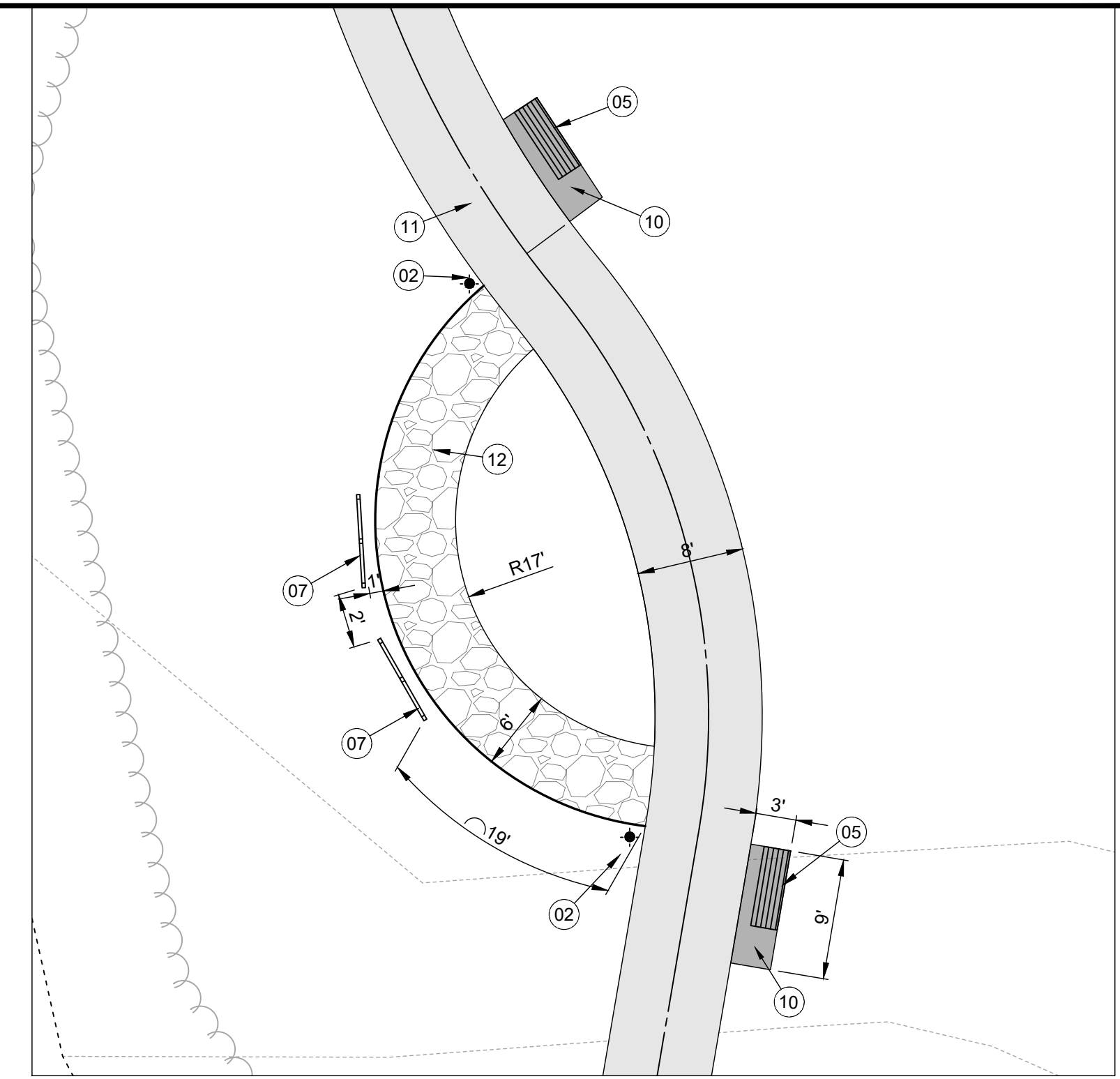




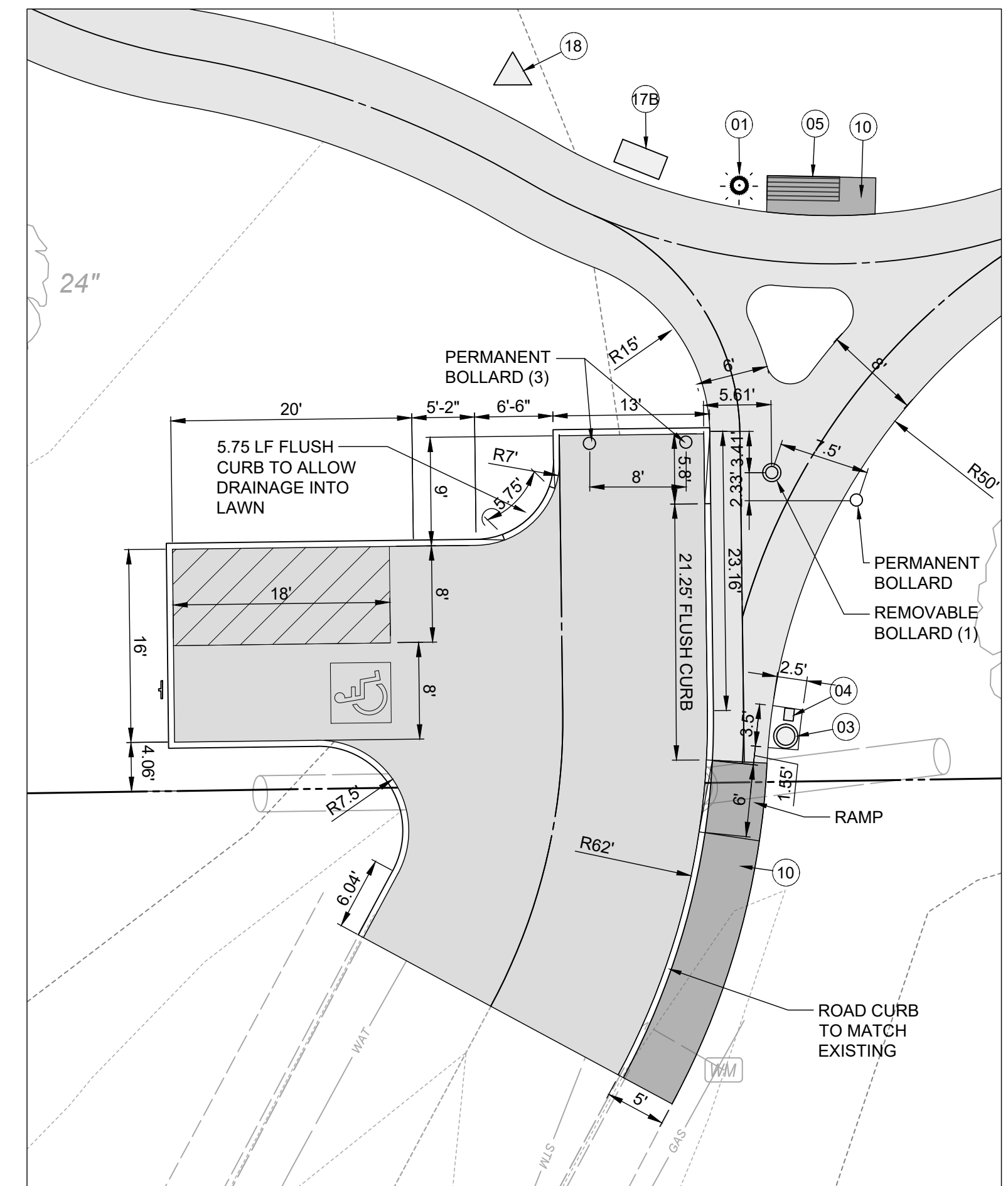
WEST TIERED CONCRETE SEATING AND WAVE SEAT WALL LAYOUT



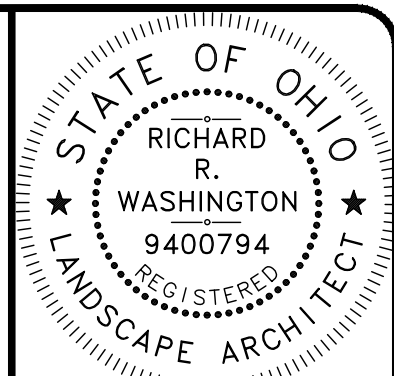
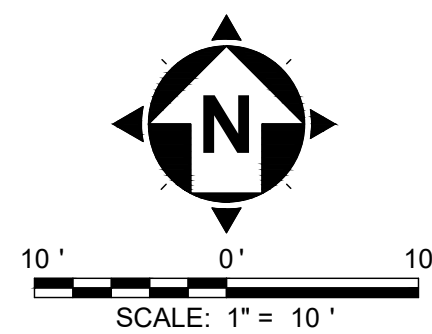
EAST TIERED CONCRETE SEATING AND WAVE SEAT WALL LAYOUT



BIRD BLIND AREA LAYOUT

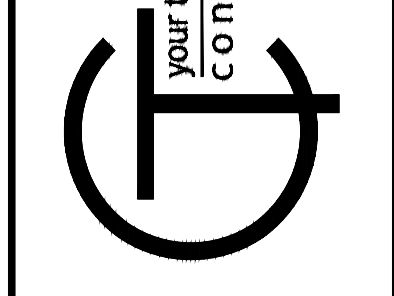


E 233RD ST TURNAROUND LAYOUT



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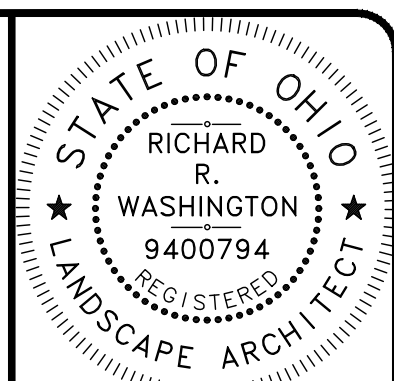


NO	REVISION	DATE

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

LAYOUT PLAN DETAILS

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	LP-2
SHEET	3
OF	13



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Expiration Date 12/31/2024

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ISSUED FOR:	FOR REBID:	DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	LP-1
SHEET	5
OF	13

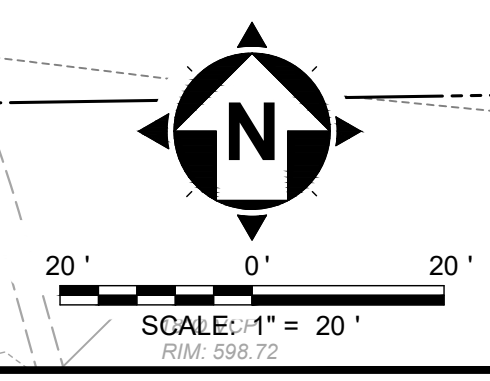
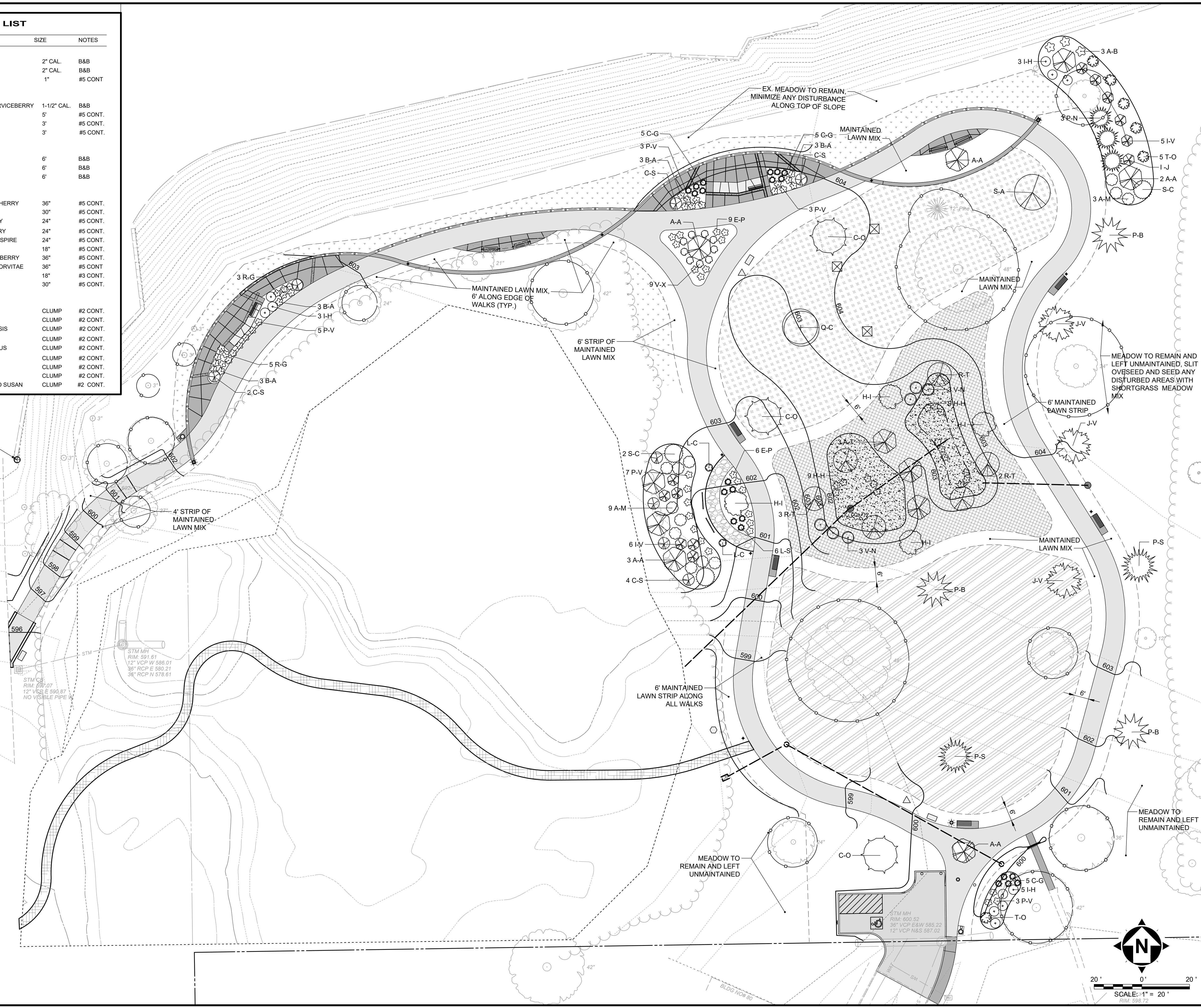
LANDSCAPE PLAN

NATIVE PLANT MATERIAL LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHADE TREES					
3	C-O	CARYA OVATA	SHAGBARK HICKORY	2" CAL.	B&B
1	Q-C	QUERCUS COCCINEA	SCARLET OAK	2" CAL.	B&B
1	S-A	SASSAFRAS ALBIDUM	SASSAFRAS	1"	#5 CONT.
ORNAMENTAL TREES					
8	A-A	AMELANCHIER X G. 'A BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	1-1/2" CAL.	B&B
3	A-T	ASIMINA TRILOBA	COMMON PAWPAW	5"	#5 CONT.
3	H-I	HAMAMELIS VERNALIS	VERNAL WITCHHAZEL	3"	#5 CONT.
6	R-T	RHUS TYPHINA	STAGHORN SUMAC	3"	#5 CONT.
EVERGREEN TREES					
3	J-V	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6"	B&B
3	P-B	PINUS BANKSIANA	JACK PINE	6"	B&B
2	P-S	PINUS STROBUS	EASTERN WHITE PINE	6"	B&B
SHRUBS					
12	A-M	ARONIA MELANOCARPA 'AM'	AUTUMN MAGIC CHOKECHERRY	36"	#5 CONT.
8	C-S	CORNUS SERICEA 'BAILEY'	REDOSEIR DOGWOOD	30"	#5 CONT.
1	I-J	ILEX V. 'JIM DANDY'	JIM DANDY WINTERBERRY	24"	#5 CONT.
11	I-V	ILEX V. 'RED SPRITE'	RED SPRITE WINTERBERRY	24"	#5 CONT.
6	I-H	ITEA V. 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	24"	#5 CONT.
3	P-N	PINUS STROBUS 'NANA'	DWARF WHITE PINE	18"	#5 CONT.
3	S-C	SAMBUCUS CANADENSIS 'JOHNS'	JOHNS AMERICAN ELDERBERRY	36"	#5 CONT.
6	T-O	THUJA O. 'WOODWARDII'	WOODWARD GLOBE ARBORVITAE	36"	#5 CONT.
9	V-X	VACCINIUM X ORNABLU	ORNABLU BLUEBERRY	18"	#3 CONT.
6	V-N	VIBURNUM N. 'WINTERHUR'	WINTERHUR VIBURNUM	30"	#5 CONT.
PERENNIALS					
3	A-B	ACTAEA RACENOSA	BLACK COHOSH	CLUMP	#2 CONT.
12	B-A	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	CLUMP	#2 CONT.
13	C-G	COREOPSIS G. 'EARLY SUNRISE'	EARLY SUNRISE COREOPSIS	CLUMP	#2 CONT.
15	E-P	ECHINACEA PURPUREA	PURPLE CONEFLOWER	CLUMP	#2 CONT.
18	H-H	HIBISCUS 'LORD BALTIMORE'	LORD BALTIMORE HIBISCUS	CLUMP	#2 CONT.
6	L-S	LIATRIS SPICATA	BLAZING STAR	CLUMP	#2 CONT.
2	L-C	LONICERA SEMPERVIRENS	CORAL HONEYSUCKLE	CLUMP	#2 CONT.
21	P-V	PHYSOSTEGIA V. 'VIVID'	VIVID OBEDIENT PLANT	CLUMP	#2 CONT.
8	R-G	RUDBECKIA F. GOLDSTURM	GOLDSTURM BLACK EYED SUSAN	CLUMP	#2 CONT.

LEGEND

- EASTERN GREAT LAKES NATIVE POLLINATOR SEED MIX - 1,000 SY
- WET WILDFLOWERS NATIVE SEED MIX - 800 SY
- BUTTERFLY / HUMMINGBIRD NATIVE SEED MIX - 1,300 SY
- SHORTGRASS MEADOW SEED MIX 1,000 SY
- MAINTAINED LAWN MIX



RESTORATION LEGEND

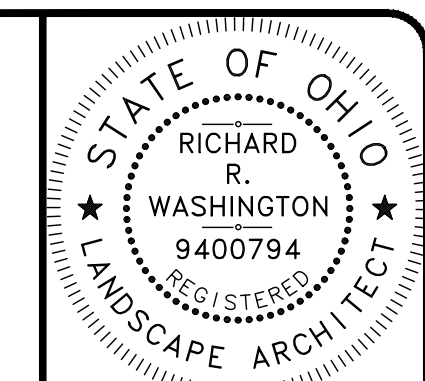
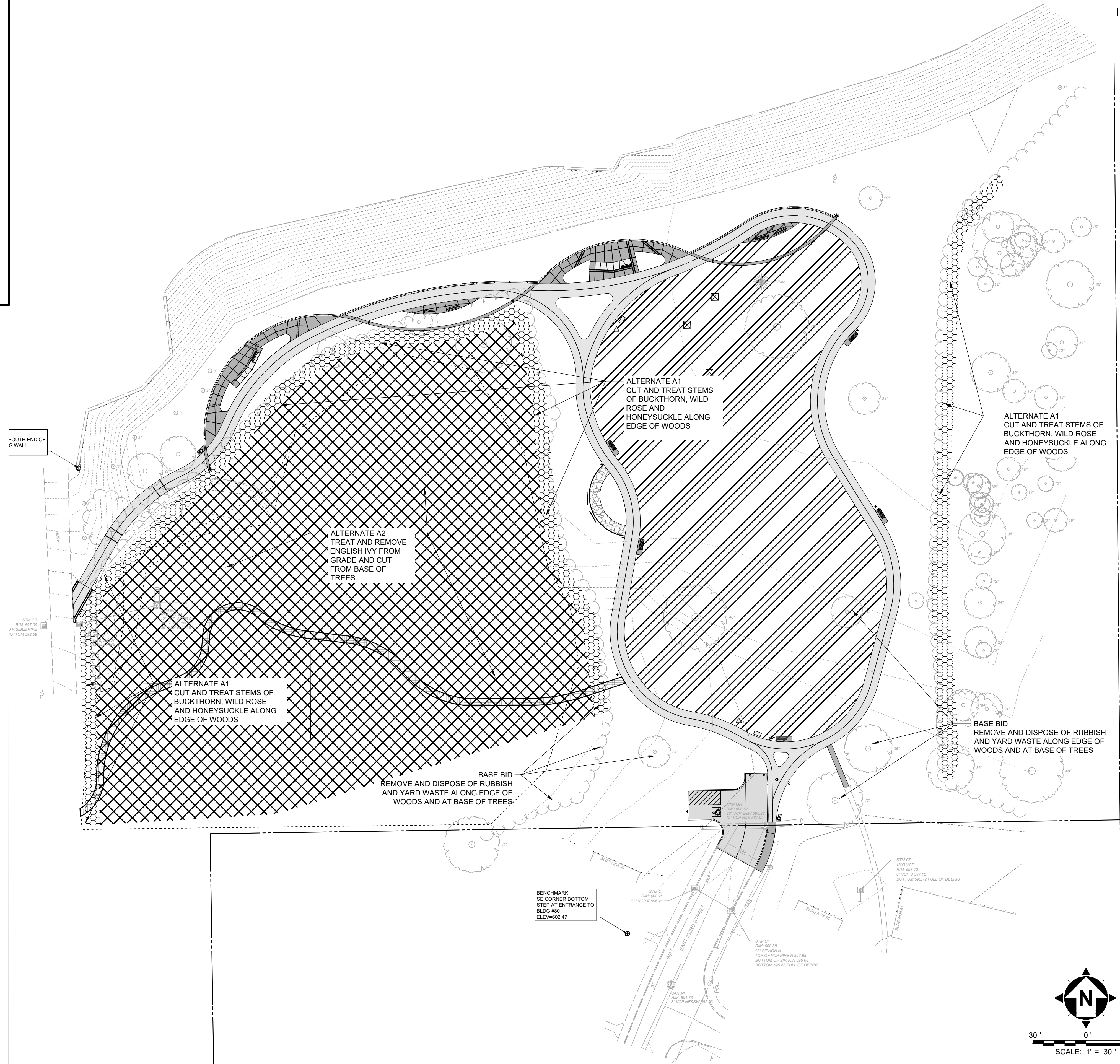
- BASE BID**
 MEADOW PREPARATION AREA
 •LAWN REMOVAL, TOPSOIL RESREADING, FINE GRADING, SEEDING AND MULCHING
 •REFER TO SEEDING SPECIFICATION 329200
 •PERFORM SITE WALK TO REMOVE LITTER THROUGHOUT THE LIMITS OF THE SITE.

ALTERNATE BIDS

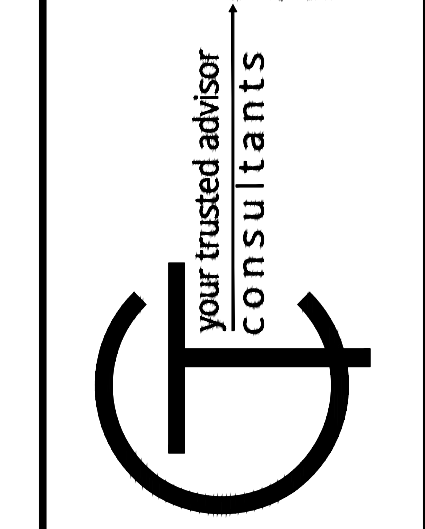
- ALTERNATE BID A1**
 EXTENSIVE ENGLISH IVY TREATMENT AND REMOVAL
- ALTERNATE BID A2**
 EXTENSIVE INVASIVE PLANT TREATMENT AND REMOVAL OF BUCKTHORN, WILD ROSE AND HONEYSUCKLE ALONG EDGE OF WOODS

NOTES:

- REFER TO INVASIVE PLANT REMOVAL SPECIFICATION SECTION 313119.
- INVASIVE PLANT AND GROUND COVER REMOVAL SHALL BE PERFORMED DURING 2024 SEASON



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 Expiration Date 12/31/2024

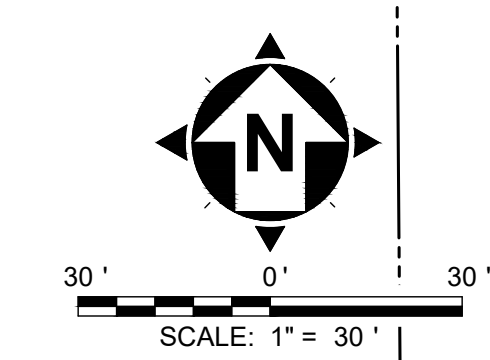


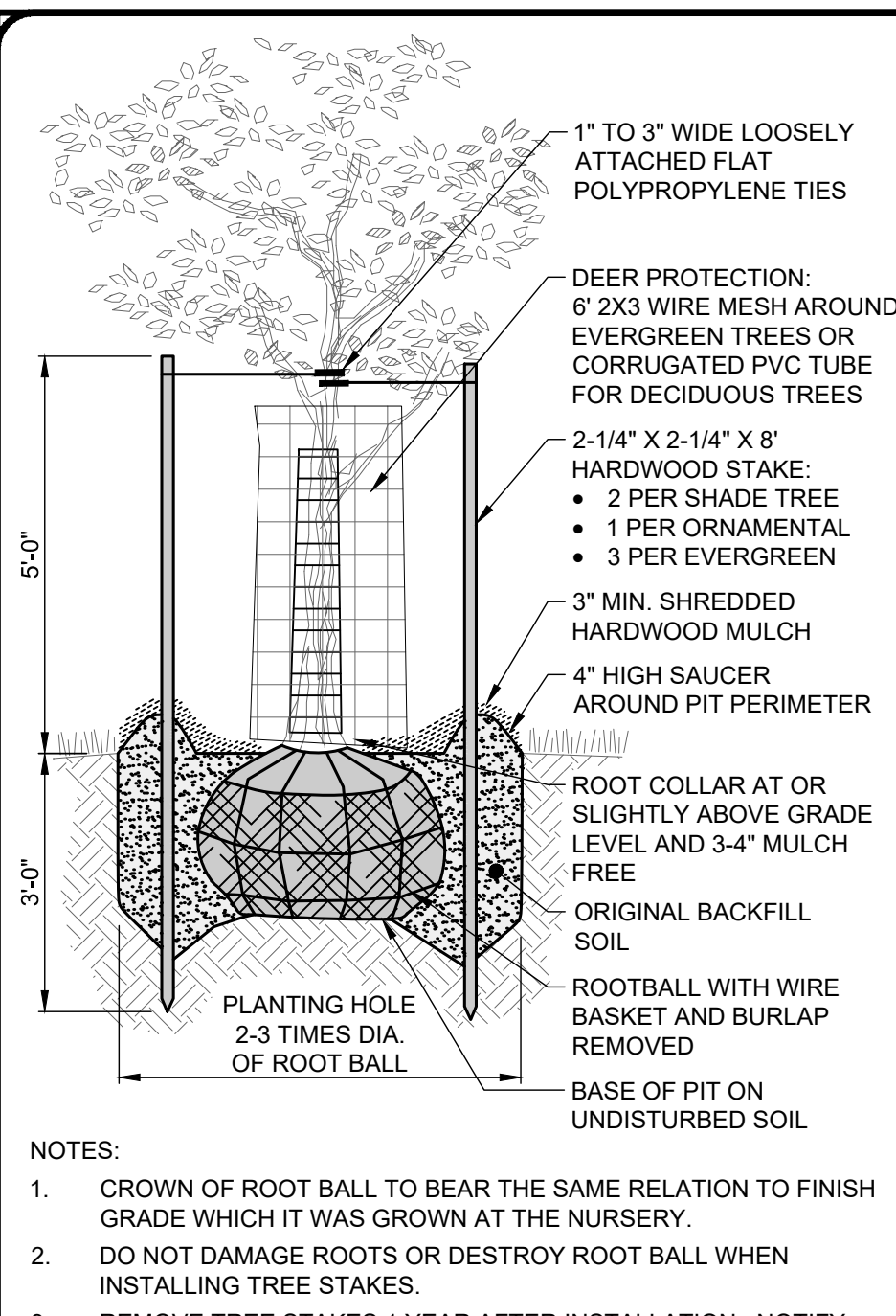
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ISSUE DATE: 7/12/24	NO.			
SCALE: AS SHOWN	NO.			
DESIGNED BY: RRV, RDS	NO.			
DRAWN BY: RDS	NO.			
CHECKED BY: RRV, LH	NO.			

KENNETH J. SIMS PARK
 CITY OF EUCLID
 23131 LAKESHORE BLVD, EUCLID, OHIO 44123
 -CUYAHOGA COUNTY-

RESTORATION PLAN

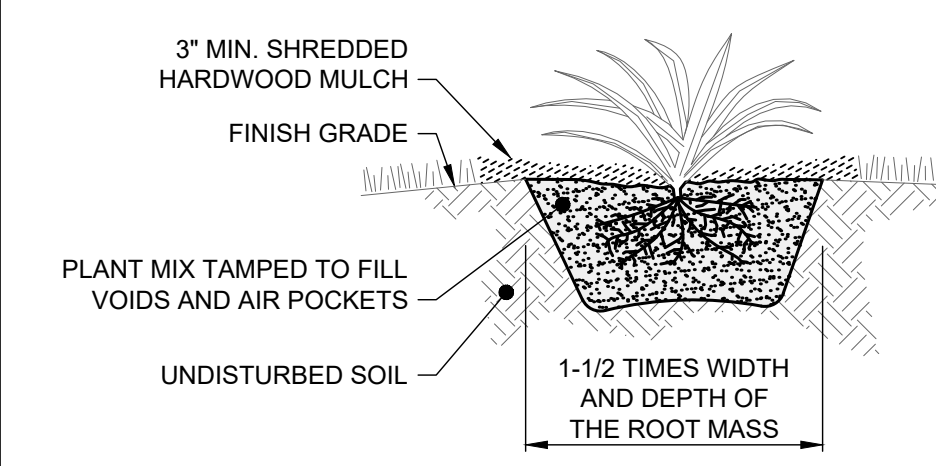
PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	RP-1
SHEET	6
OF	13



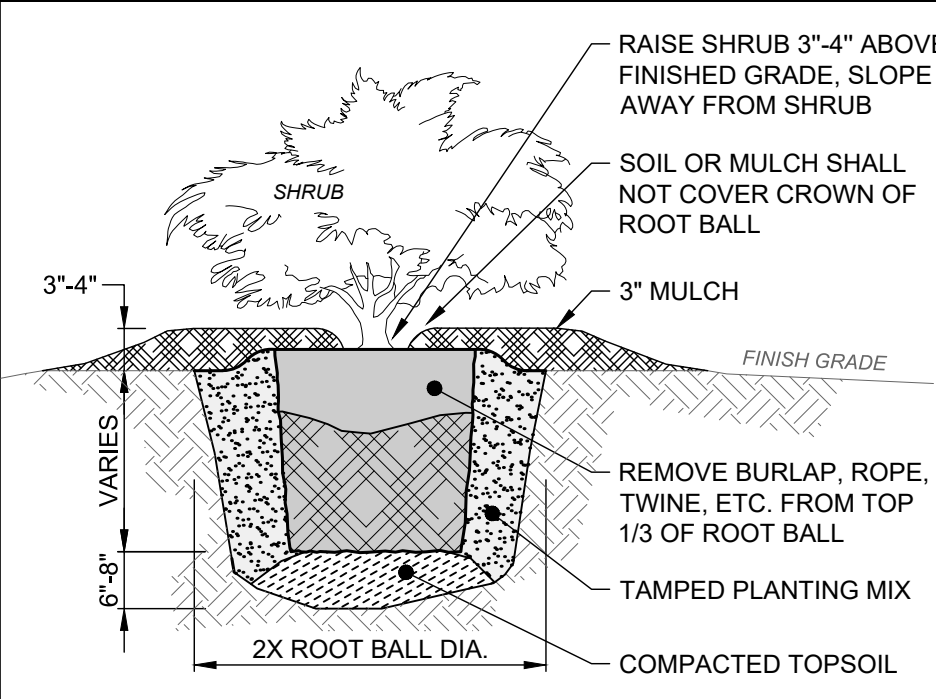


- NOTES:
1. CROWN OF ROOT BALL TO BEAR THE SAME RELATION TO FINISH GRADE WHICH IT WAS GROWN AT THE NURSERY.
 2. DO NOT DAMAGE ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKES.
 3. REMOVE TREE STAKES 1 YEAR AFTER INSTALLATION. NOTIFY OWNER PRIOR TO REMOVAL.

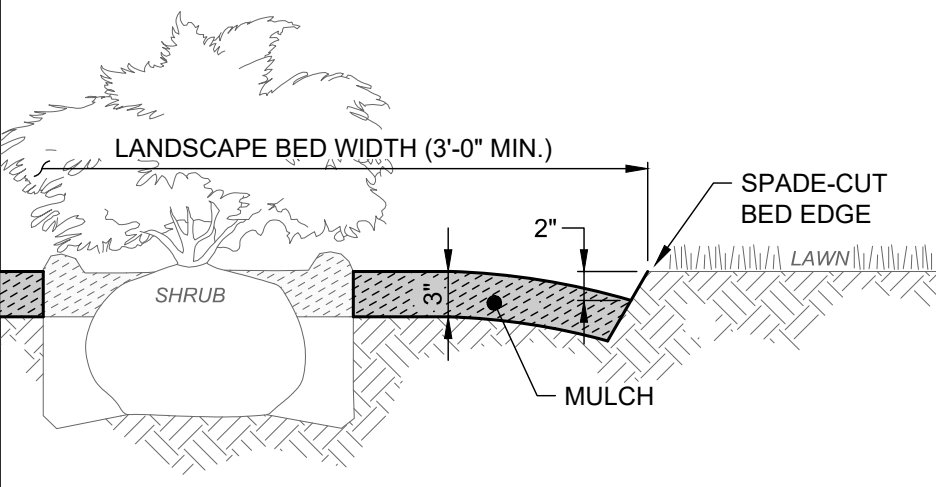
TREE PLANTING DETAIL
SCALE: NONE



ANNUAL AND PERENNIAL PLANTING DETAIL
SCALE: NONE

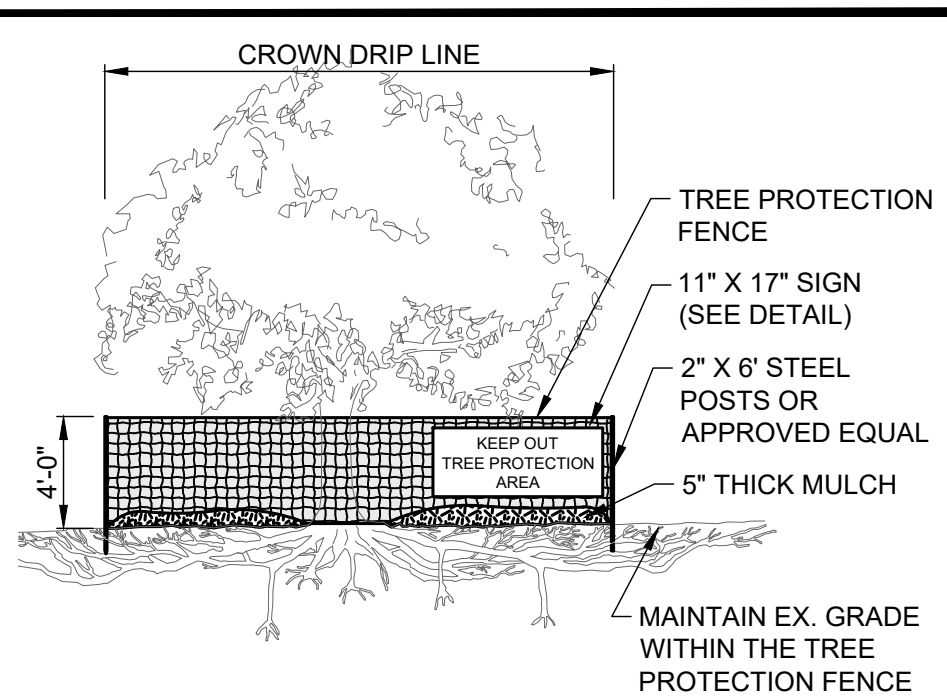


SHRUB PLANTING DETAIL
SCALE: NONE



- NOTES:
- 1) MULCH SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH, DARK BROWN OR BLACK COLOR PER OWNER CHOICE, EXTRA FINE WITH TEXTURE AT 1-1/2" OR LESS FREE OF WEEDS, CHAFF OR OTHER FOREIGN MATERIAL.
 - 2) MULCH SHALL BE PLACED IN ALL PLANTING AREAS SPREAD TO A SMOOTH, UNIFORM SURFACE PLANE WITH CRISP STRAIGHT AND SMOOTH CURVED MULCH BED EDGES. BED EDGES SHALL BE CUT IN "V" SHAPE WITH APPROXIMATE 60° ANGLE TO GROUND.

MULCH BED DETAIL
SCALE: NONE



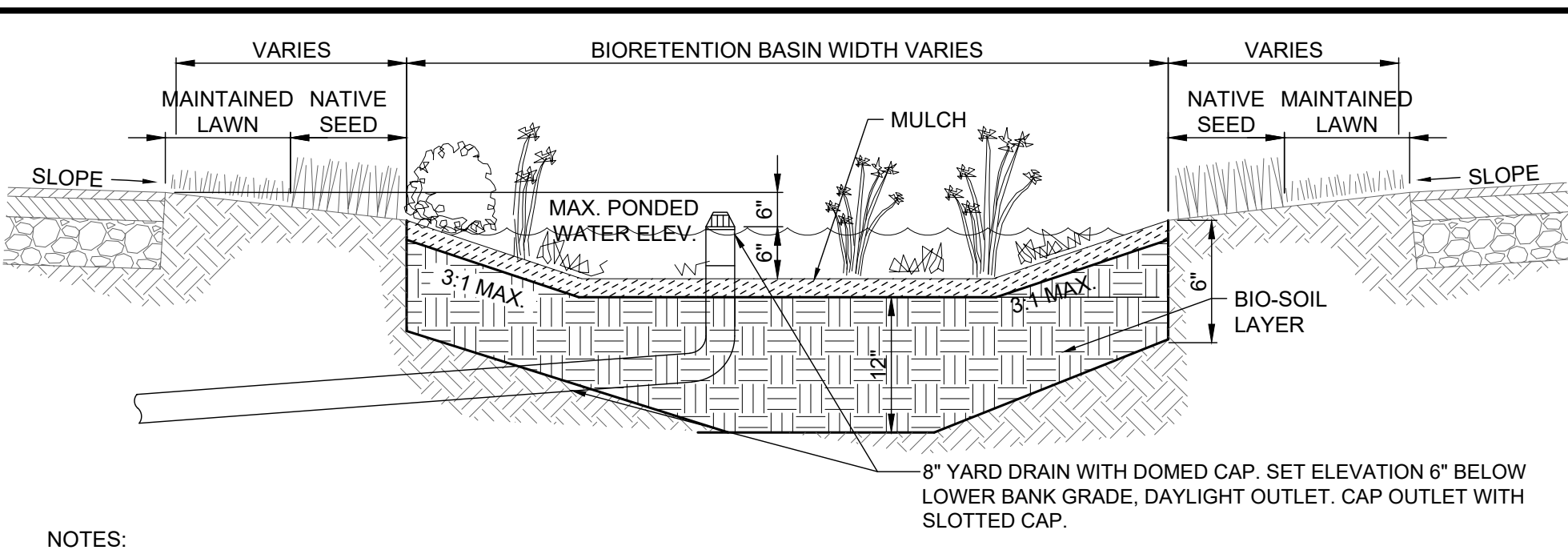
- NOTES:
1. TREE PROTECTION FENCE MUST BE INSTALLED PRIOR TO BEGINNING CLEARING OPERATIONS AND REMAIN UNTIL FINAL GRADING HAS BEEN COMPLETED.
 2. FENCE MUST BE PLACED BEYOND THE DRIP LINE OR CANOPY OF TREES (SEE PLANS FOR GENERAL FENCE ALIGNMENT).
 3. FENCE SHALL BE ORANGE COLOR, HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS.
 4. STEEL POSTS SHALL BE INSTALLED AT 8' O.C. MIN.
 5. SIGN SHALL BE LAMINATED IN PLASTIC AND SPACED EVERY 50' ALONG THE FENCE.
 6. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING, INCLUDING FENCE INSTALLATION AND REMOVAL.

TREE PROTECTION DETAIL
SCALE: NONE



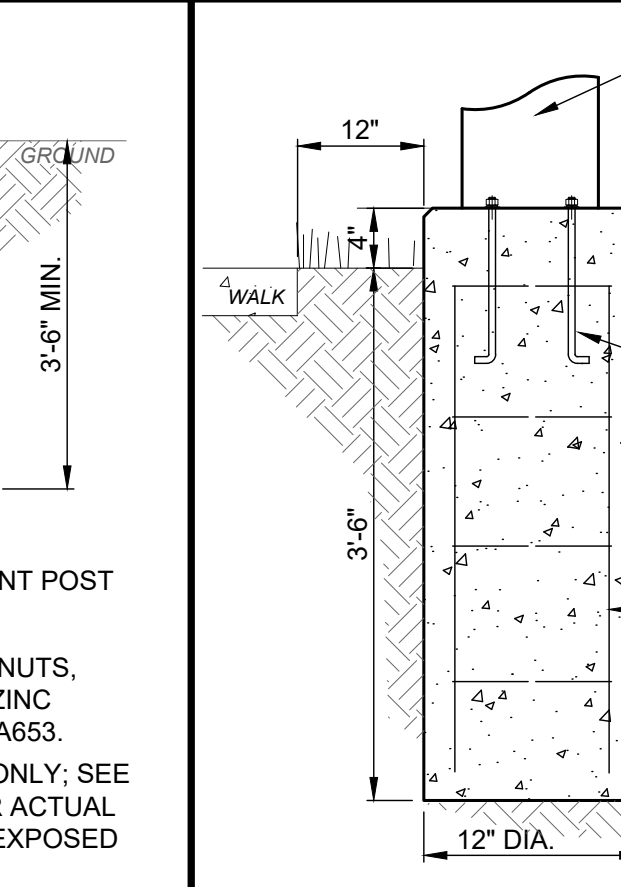
- NOTES:
1. ALL HARDWARE, CONNECTORS, BOLTS, NUTS, WASHERS, ETC. SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER ASTM A653.
 2. THIS DETAIL ARE GENERAL DIMENSION ONLY; SEE MANUFACTURER'S SPECIFICATIONS FOR ACTUAL DIMENSIONS, FASTENERS, MOUNTING, EXPOSED HEIGHT, CONFIGURATION, ETC.

FURNISHING FOOTER DETAIL
SCALE: NONE

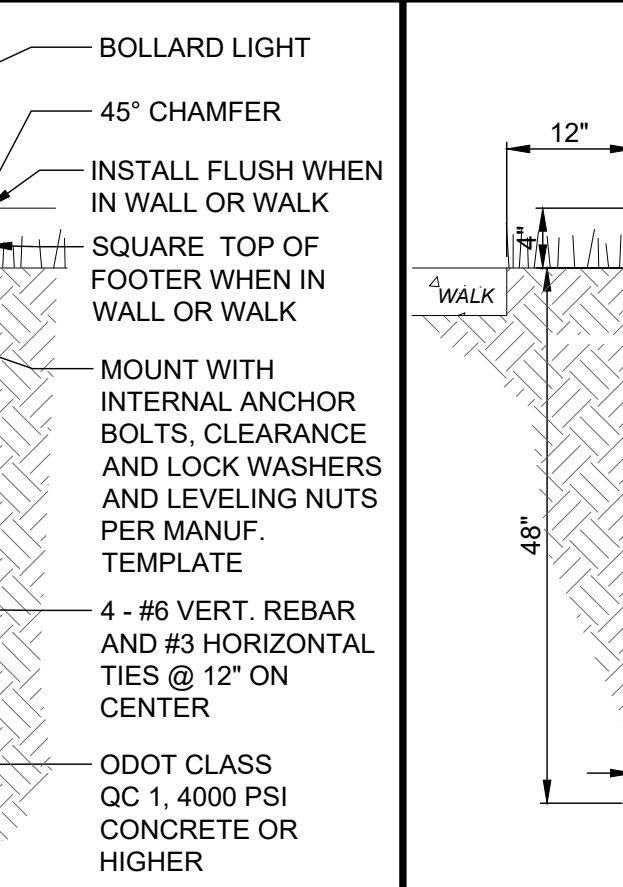


- NOTES:
1. THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; NOT ALL ITEMS SHOWN MAY APPLY. SEE PLAN SHEETS FOR ACTUAL CONFIGURATION, COUNTS, QUANTITIES, ELEVATIONS, AND LANDSCAPING PLACEMENT.
 2. CONSTRUCT THE BIORETENTION BASIN ONLY AFTER EARTHWORK ACTIVITIES ARE COMPLETE AND UPSLOPE DRAINAGE AREAS STABILIZED. DO NOT USE THE BIORETENTION BASIN FOR SEDIMENT CONTROL.
 3. DO NOT OPERATE EQUIPMENT WITHIN THE BASIN DURING TO AVOID COMPACTING BIO-SOIL. ALSO AVOID COMPACTION BY FOOT TRAFFIC. CONTRACTOR SHALL REMEDIATE ANY COMPACTED SOILS BY FRACTURING WITH A TILLAGE DEVICE.
 4. MULCH SHALL BE 3" THICK COARSE SHREDDED HARDWOOD MULCH, DARK BROWN OR BLACK COLOR, FREE OF WEEDS, CHAFF OR OTHER FOREIGN MATERIAL.
 5. BIO-SOIL SHALL BE CERTIFIED BY A QUALIFIED LABORATORY MEETING THE FOLLOWING ATTRIBUTES:
 - TEXTURE CLASS: LOAMY SAND
 - SAND CONTENT: ≥ 80%
 - CLAY CONTENT: ≤ 10%
 - pH RANGE: 5.2-8.0
 - SOLUBLE SALTS: 500 PPM MAX
 - DECOMPOSED ORGANIC MATTER: 3%-5% BY WEIGHT, OR 8%-20% BY VOLUME
 - PHOSPHORUS: 15-60 PPM (10-30 PPM FOR SITES WITH PHOSPHORUS TMDL OR HIGH PHOSPHORUS LOADS)
 - SAND ADDED SHALL BE CLEAN AND MEET AASHTO M-6 OR ASTM C-33 WITH A GRAIN SIZE OF 0.02"-0.04"

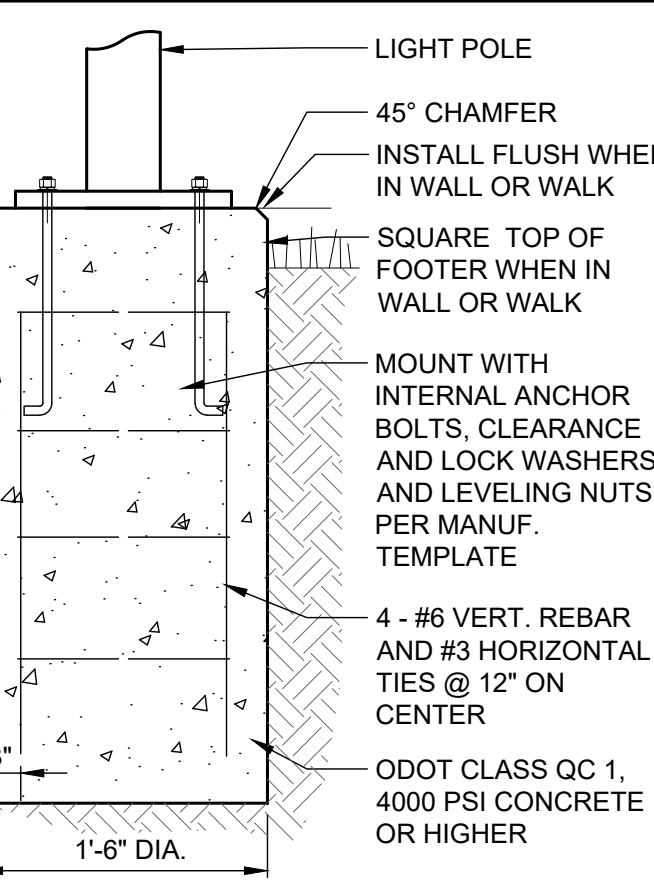
RAINGARDEN DETAIL
SCALE: NONE



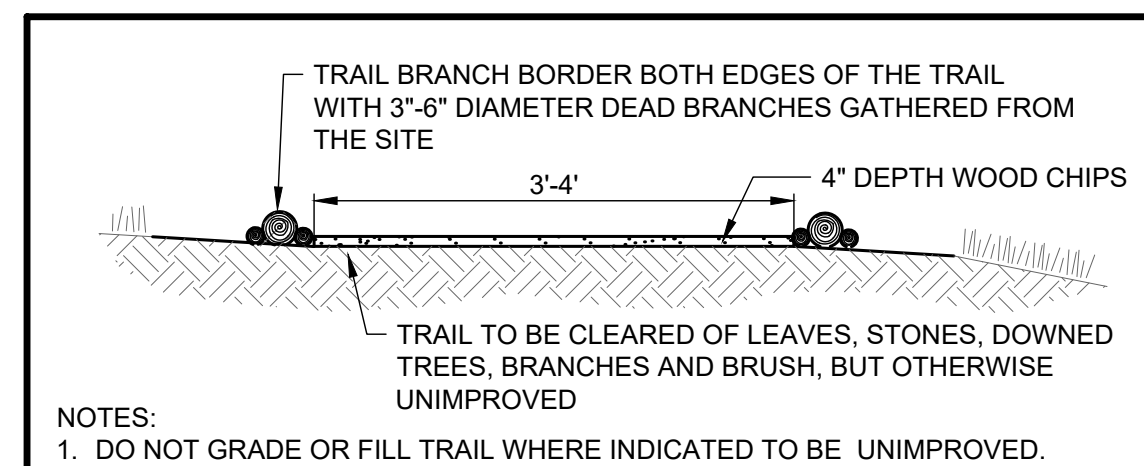
BOLLARD LIGHT BASE DETAIL
SCALE: NONE



LIGHTPOLE BASE DETAIL
SCALE: NONE

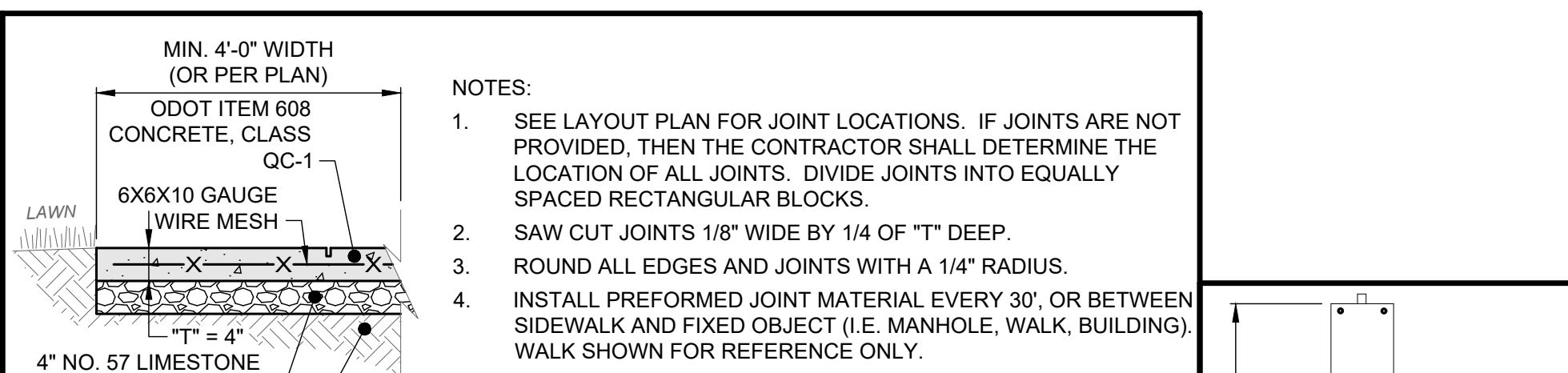


CONCRETE WALK DETAIL
SCALE: NONE

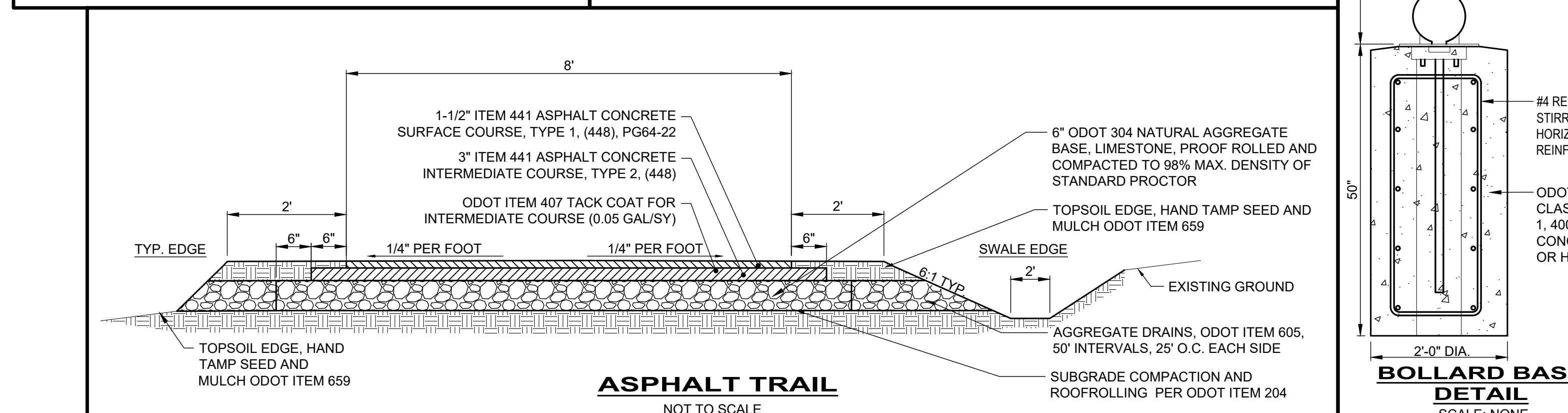


- NOTES:
1. DO NOT GRADE OR FILL TRAIL WHERE INDICATED TO BE UNIMPROVED.
 2. NO TREES SHALL BE REMOVED DURING TRAIL CONSTRUCTION.
 3. DOWNED TREES CROSSING THE TRAIL SHALL BE CUT 12" BEYOND EDGE OF TRAIL.

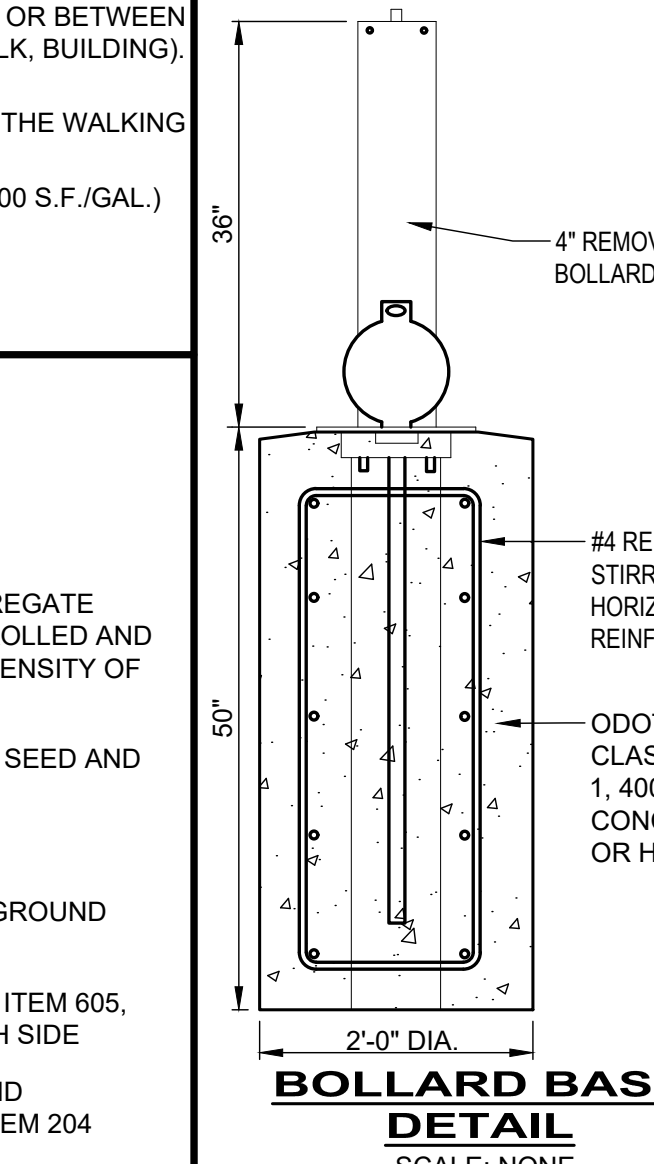
MULCH TRAIL DETAIL
SCALE: NONE



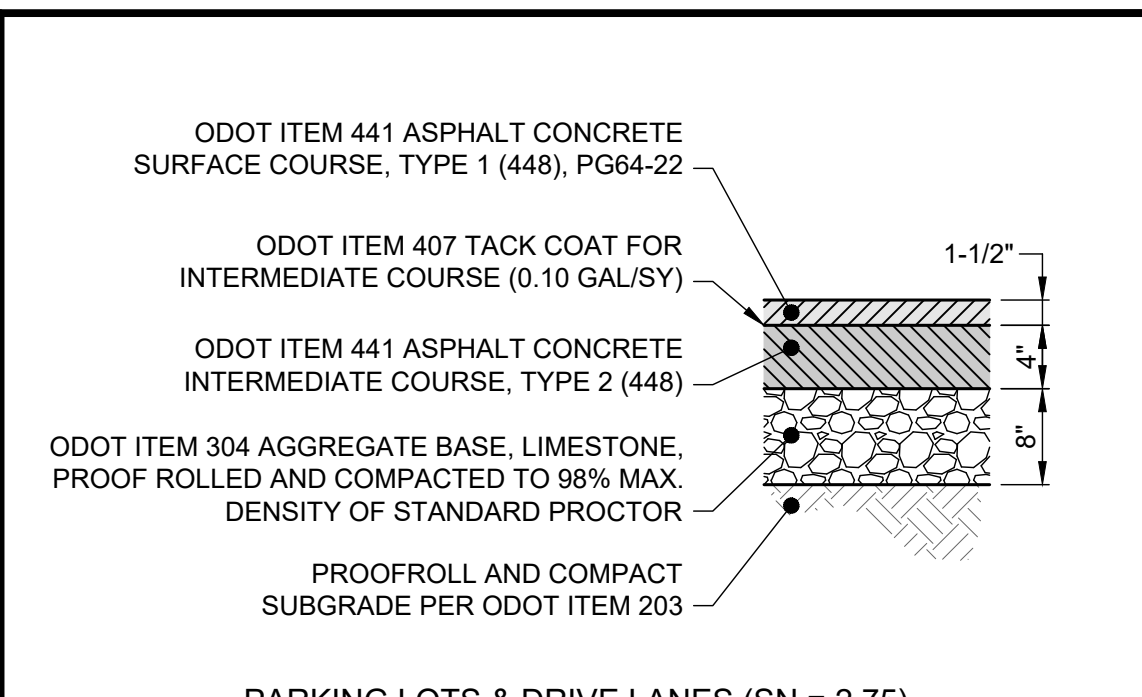
6" CONCRETE BUMPER BLOCK DETAIL
SCALE: NONE



ASPHALT TRAIL
NOT TO SCALE

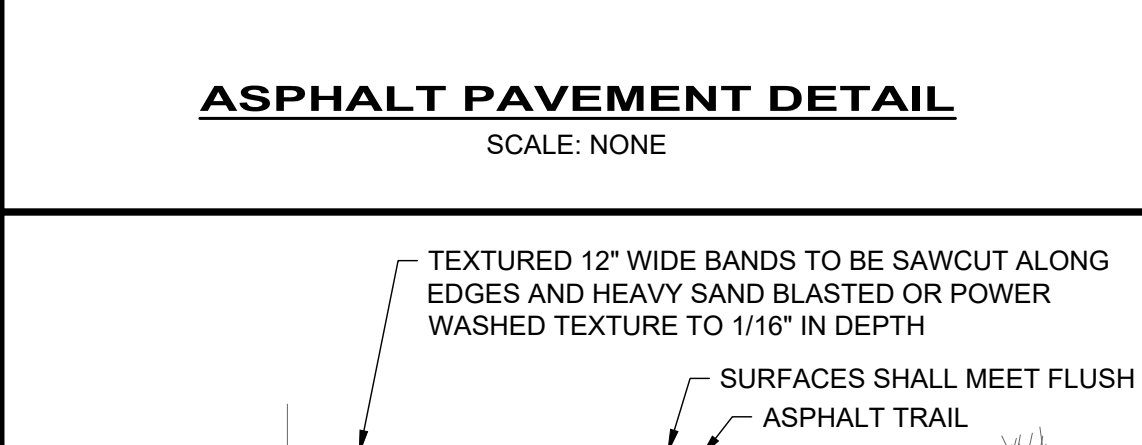


BOLLARD BASE DETAIL
SCALE: NONE



ASPHALT PAVEMENT DETAIL
SCALE: NONE

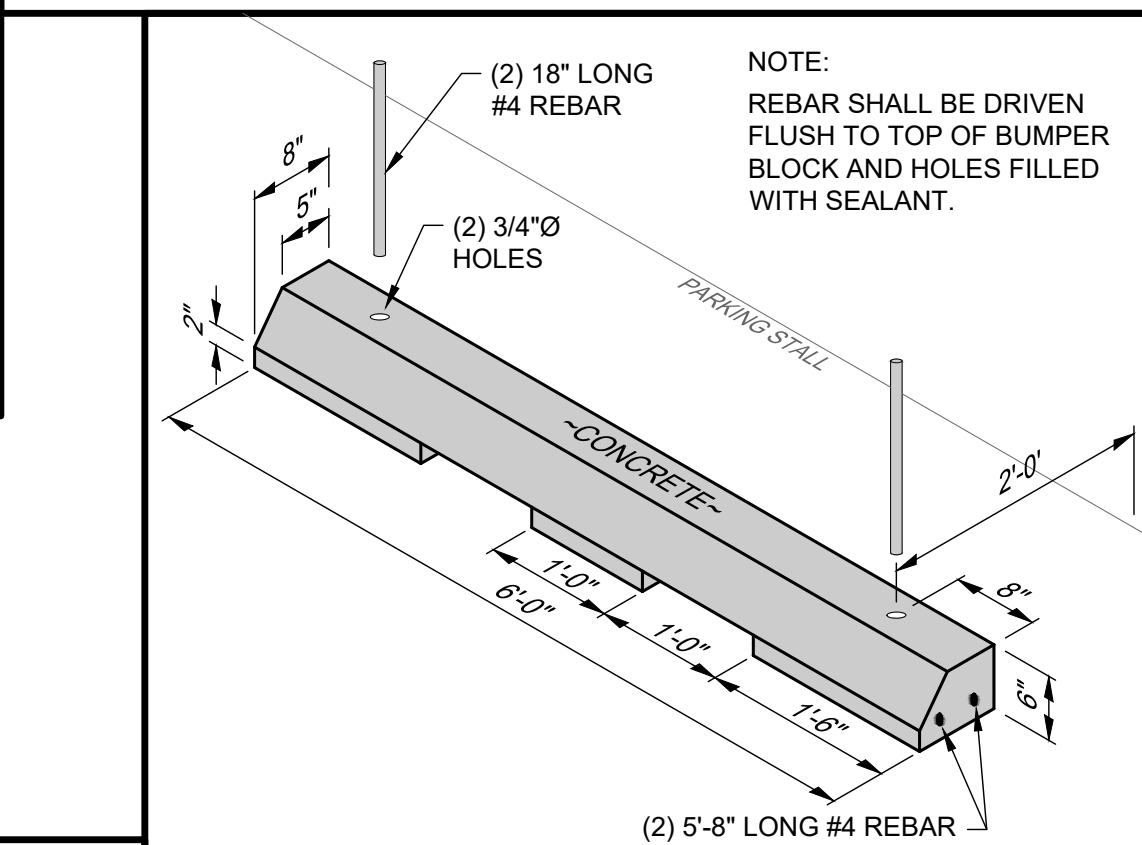
- NOTES:
1. IF UNSUITABLE SOILS EXISTS, UNDERCUT SUBGRADE AND REPLACE WITH ODOT ITEM 304 CRUSHED LIMESTONE, 12" MIN. AS DIRECTED.



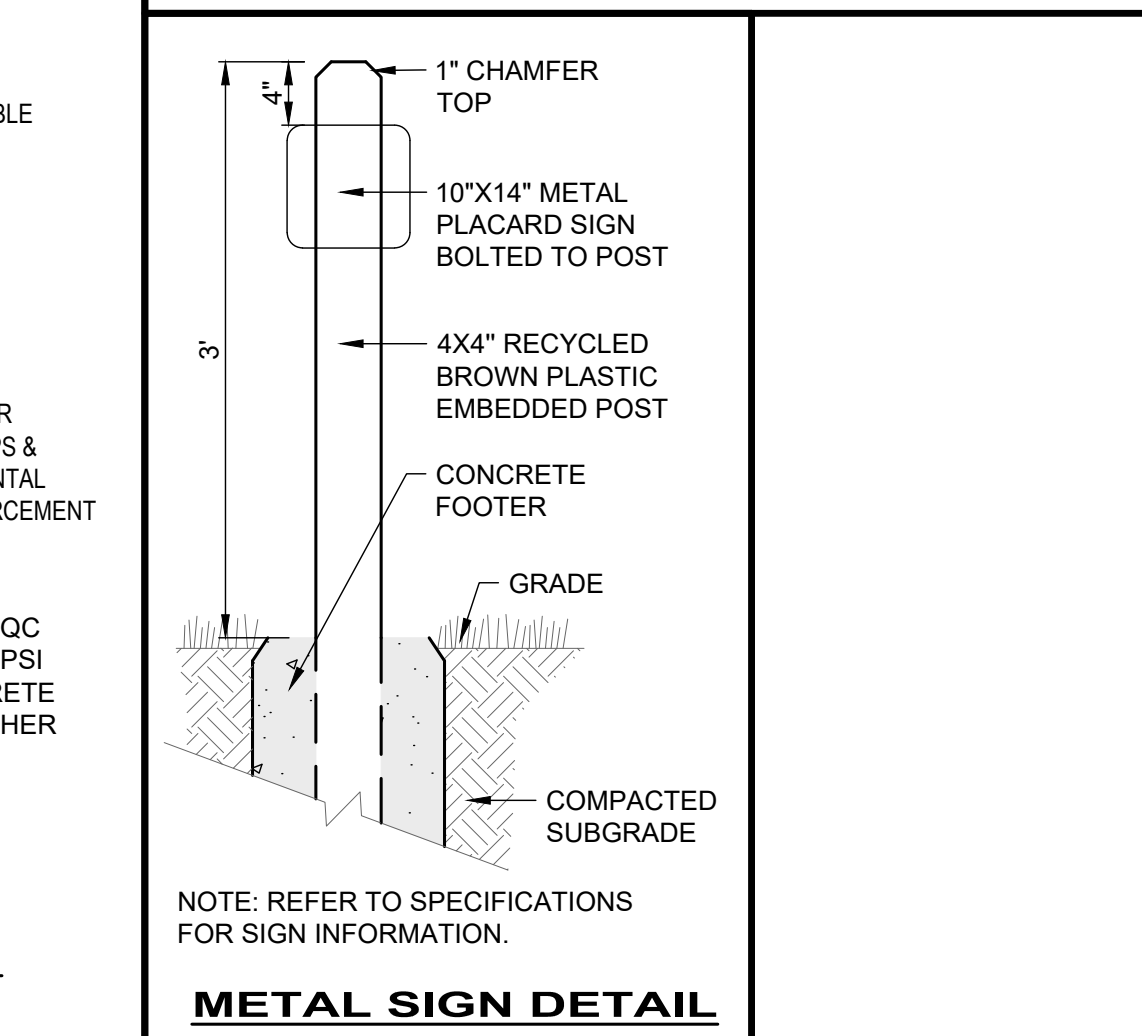
CONCRETE BANDS WITH TEXTURE DETAIL
SCALE: NONE

- NOTES:
1. SEE LAYOUT PLAN FOR TEXTURE BAND LOCATIONS. IF JOINTS ARE NOT PROVIDED, DEPTH OF TEXTURE SHALL NOT EXCEED 1/16". PROTECT ADJACENT SURFACES FROM DAMAGE. SAWCUT ALONG EDGE OF TEXTURE BANDS.
 2. TEXTURE SHALL CLOSELY RESEMBLE TEXTURED BANDS ALONG LAKEFRONT TRAIL.

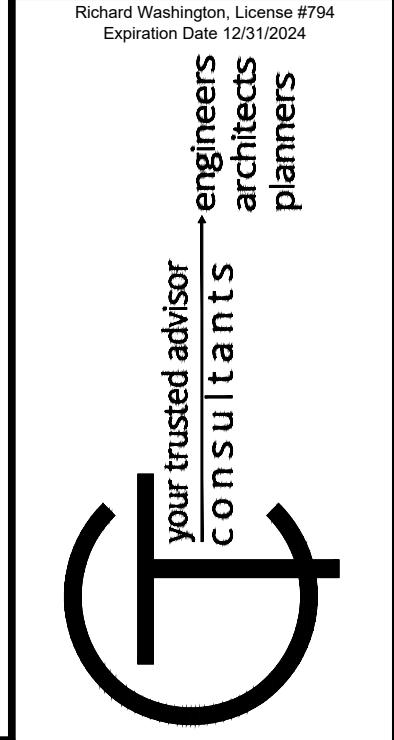
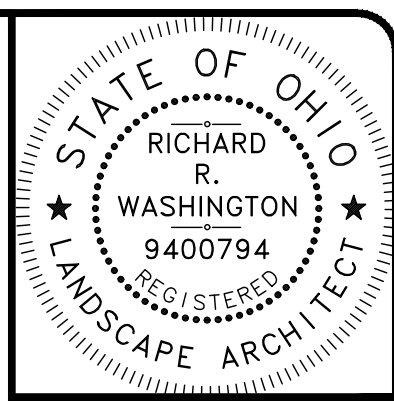
CONCRETE BANDS WITH TEXTURE DETAIL
SCALE: NONE



METAL SIGN DETAIL
SCALE: NONE



METAL SIGN DETAIL
SCALE: NONE

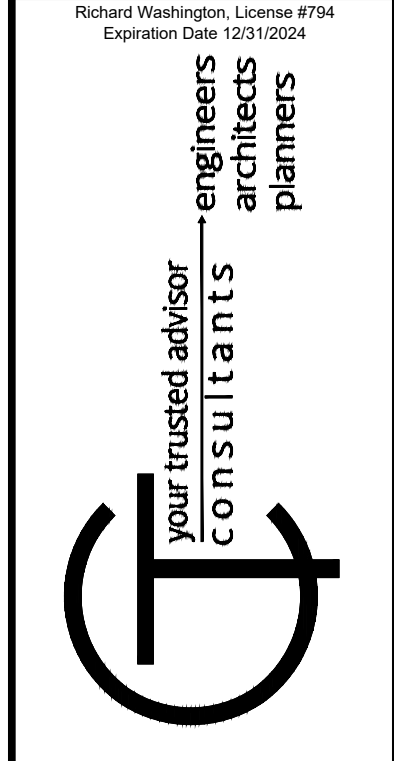
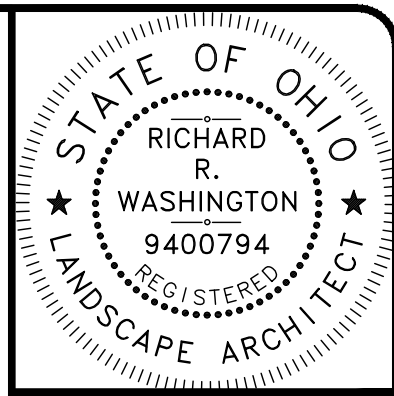
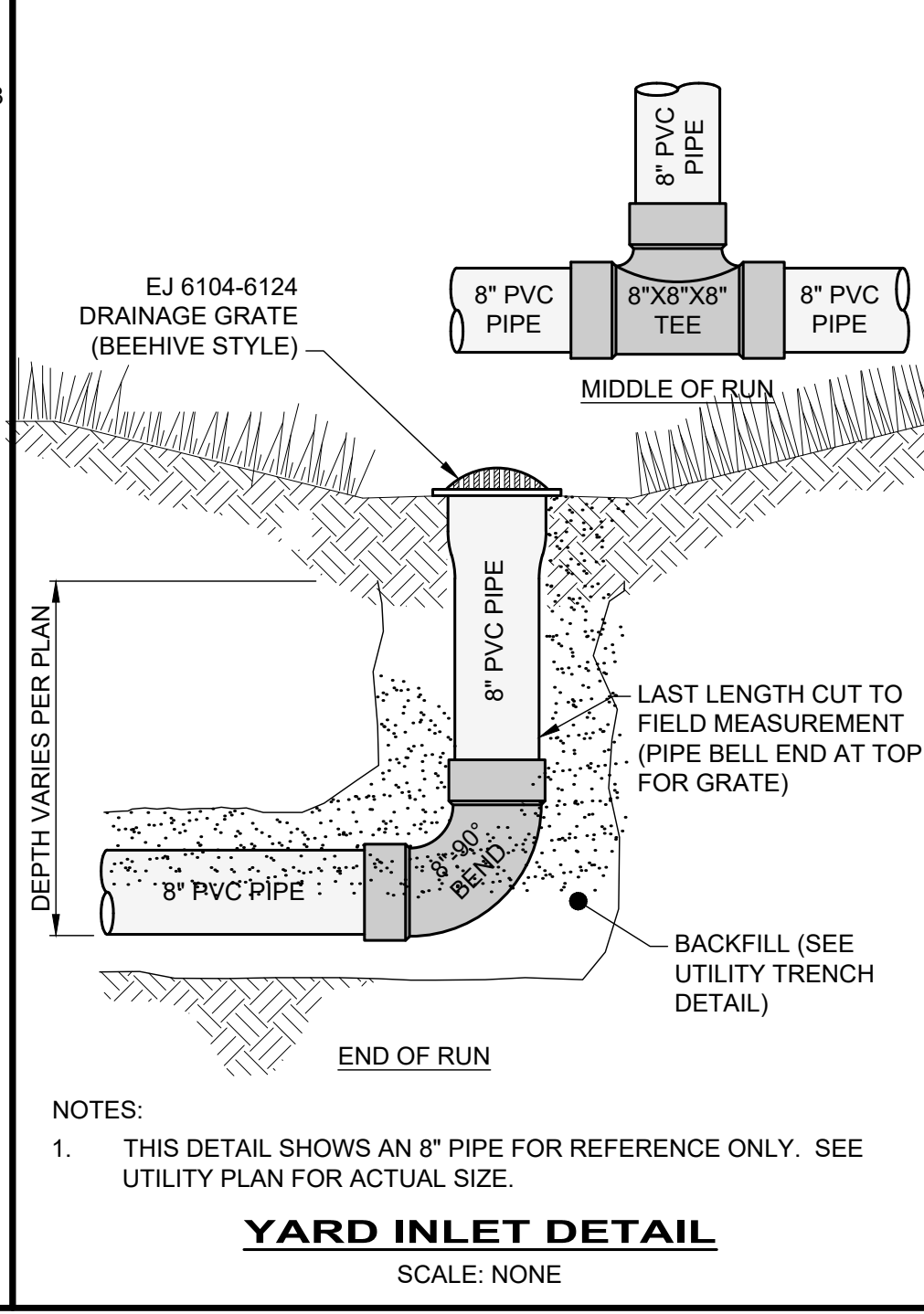
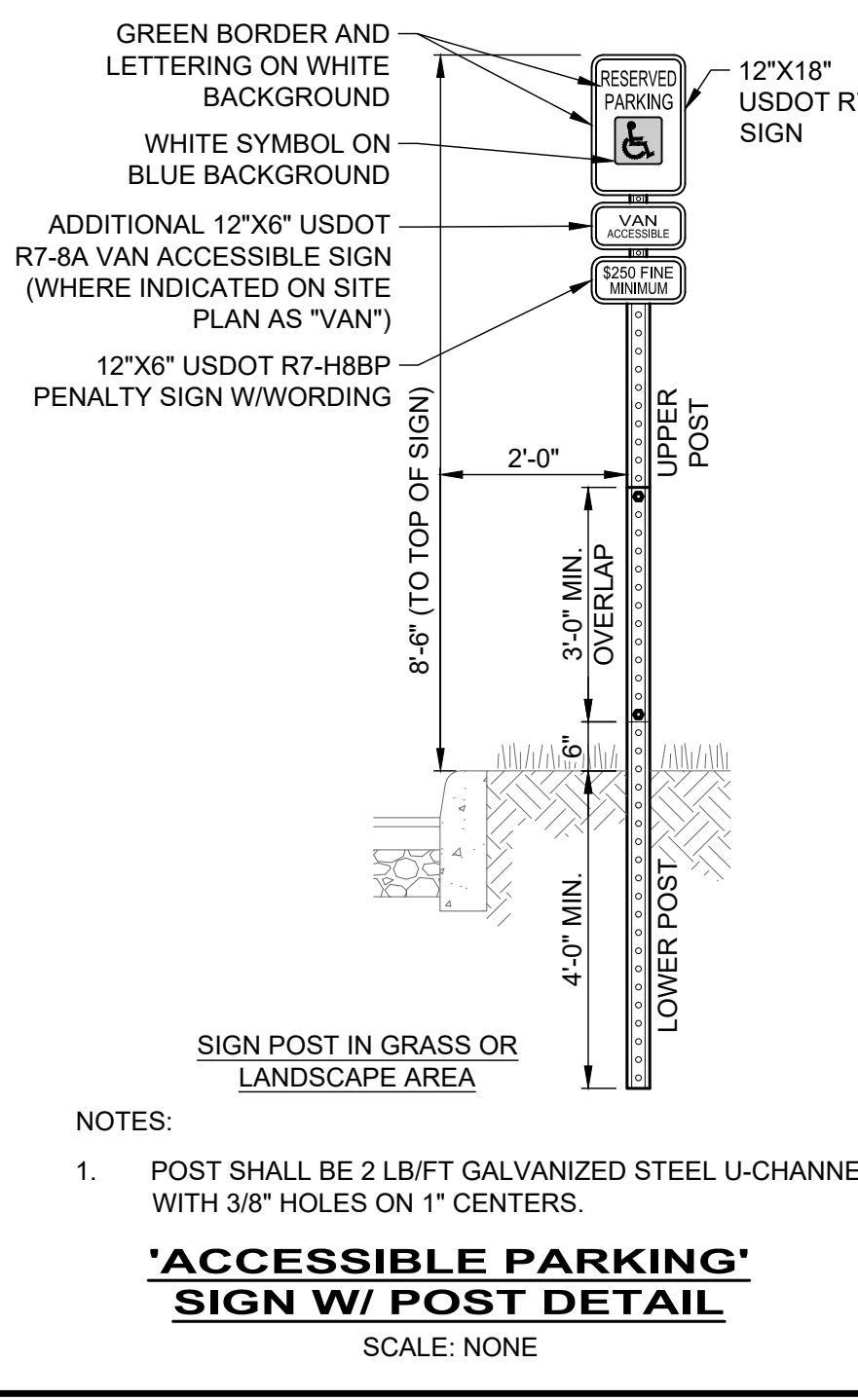
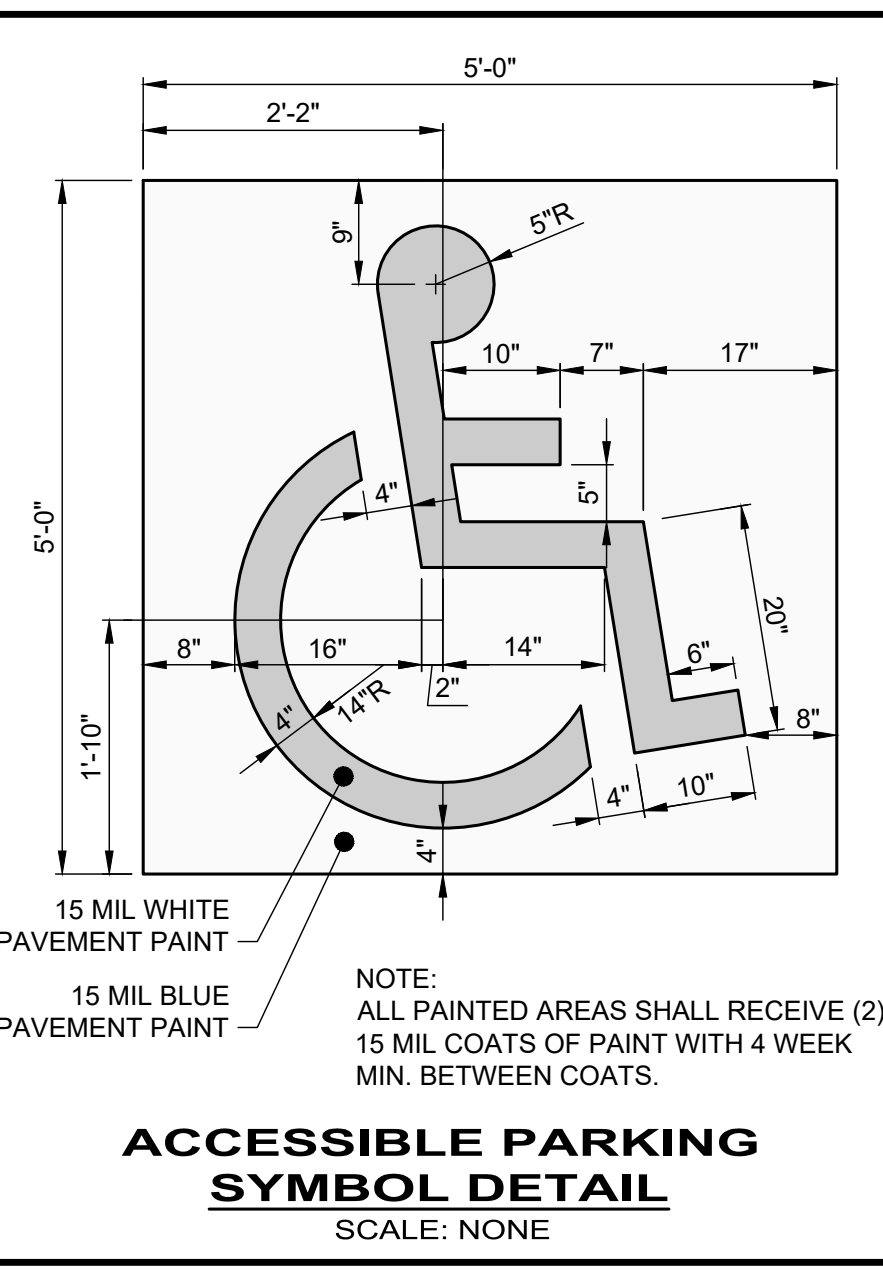
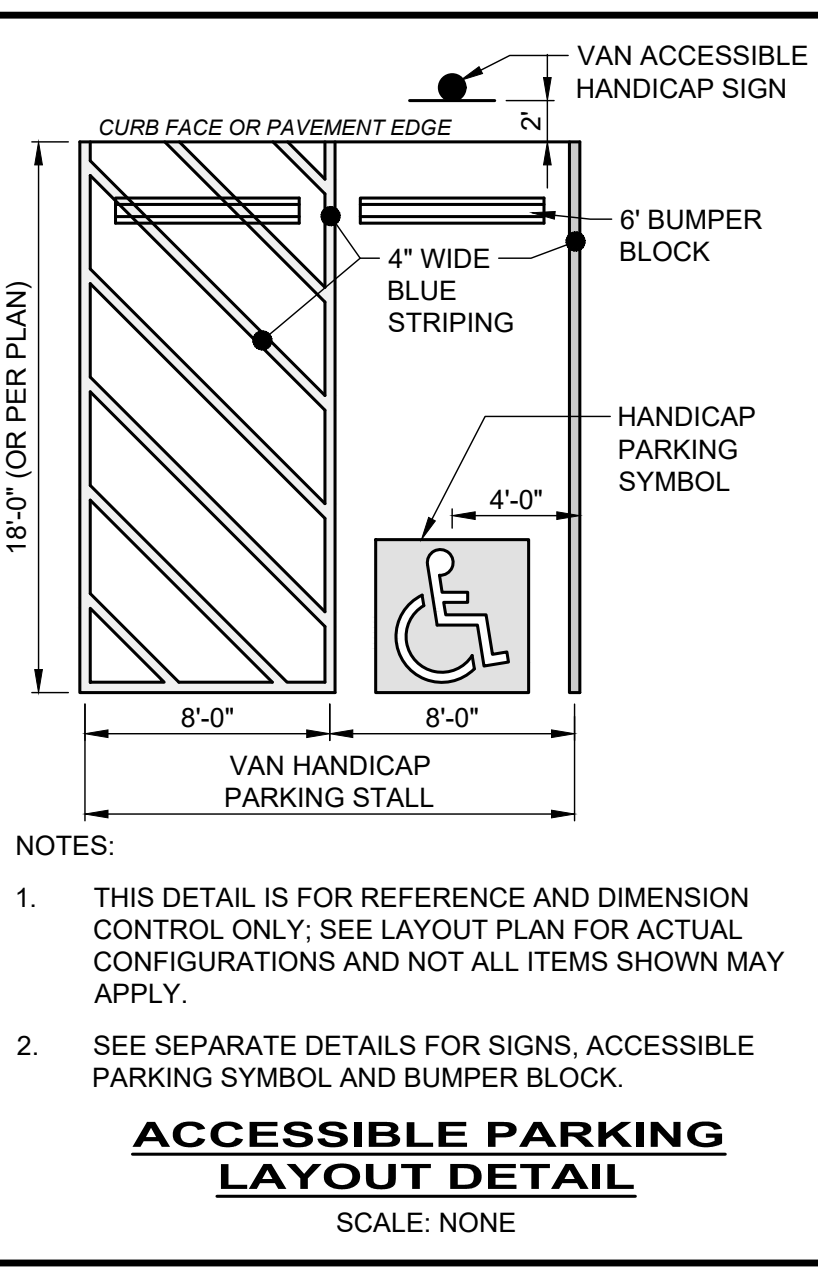
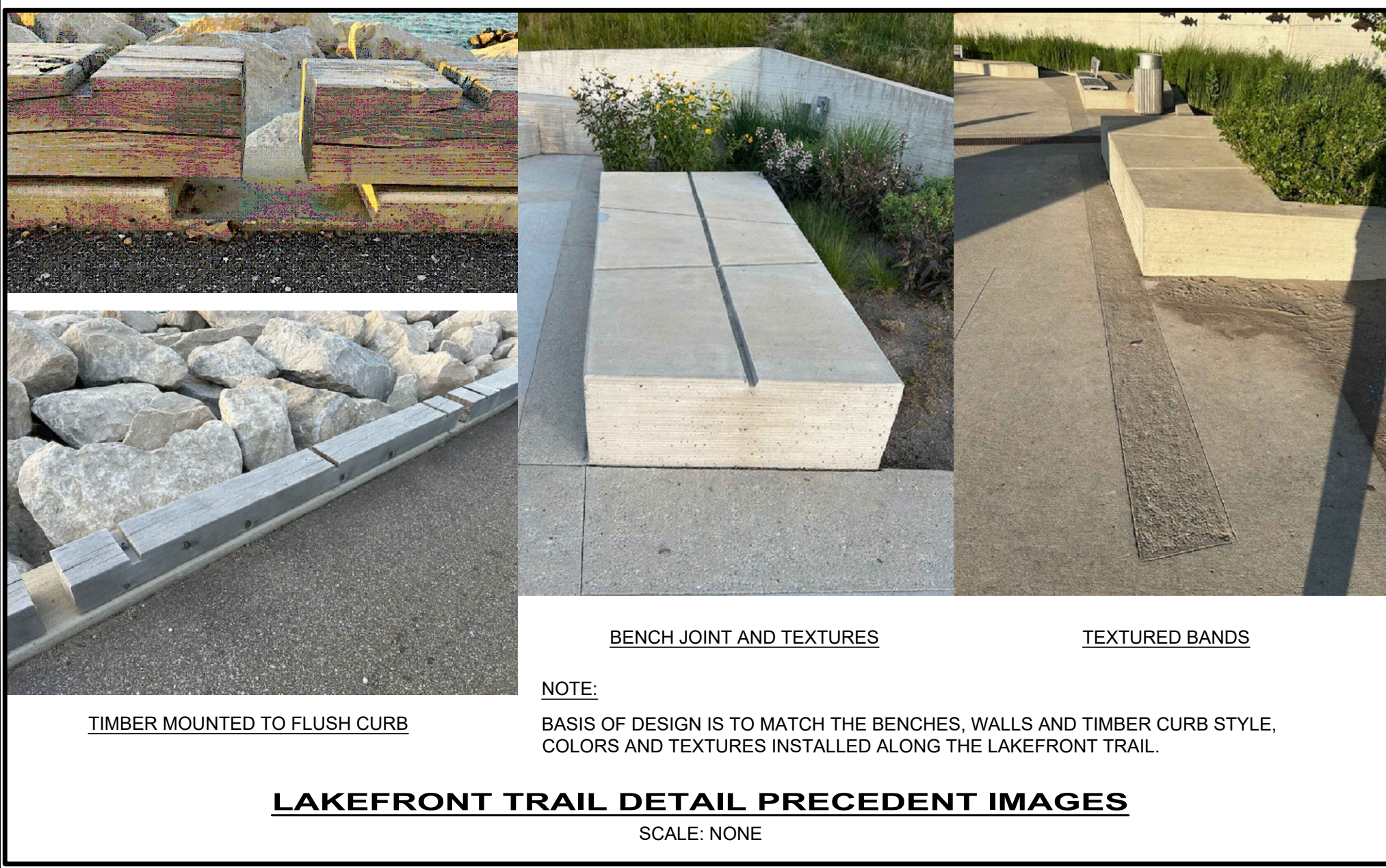
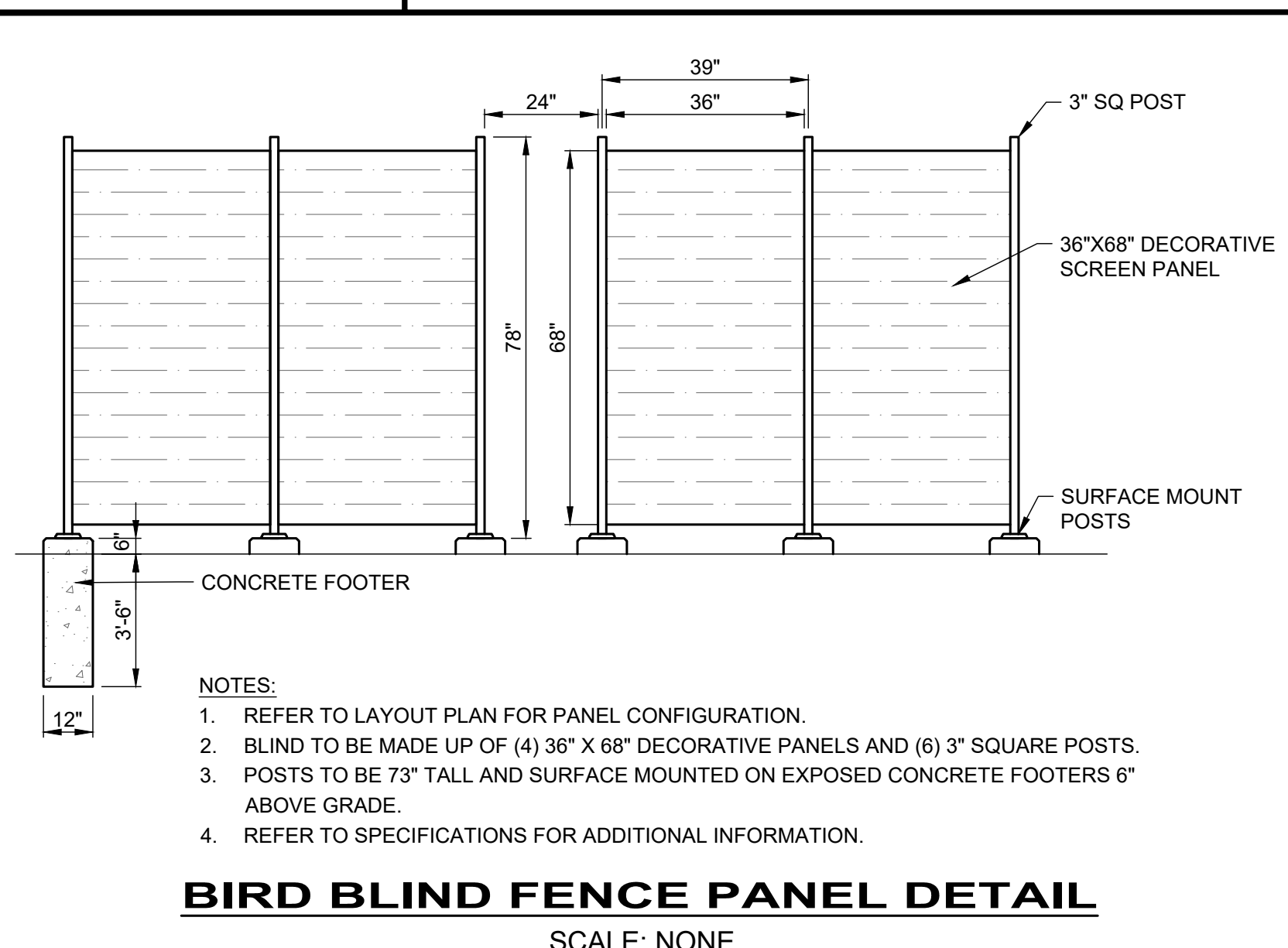
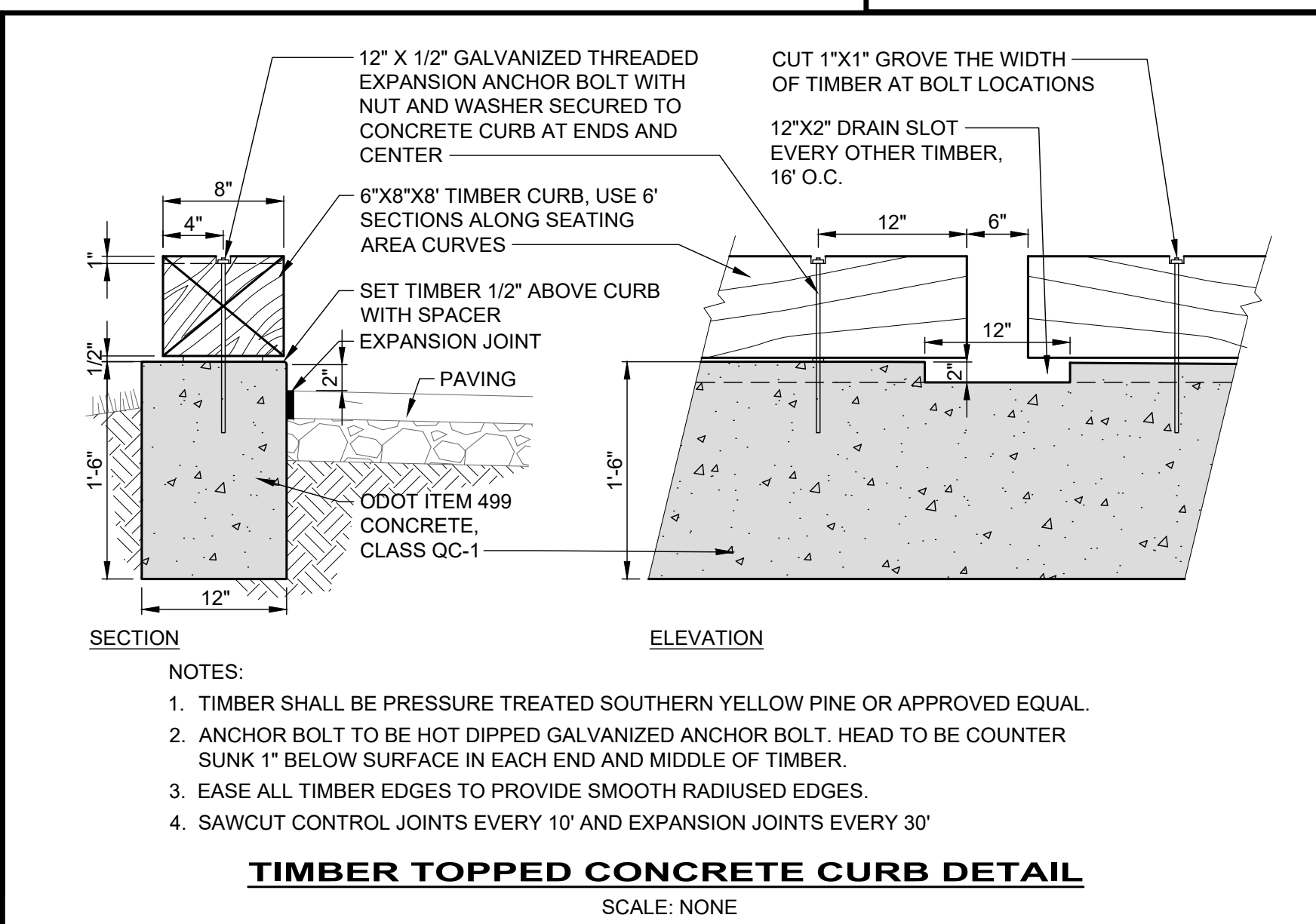
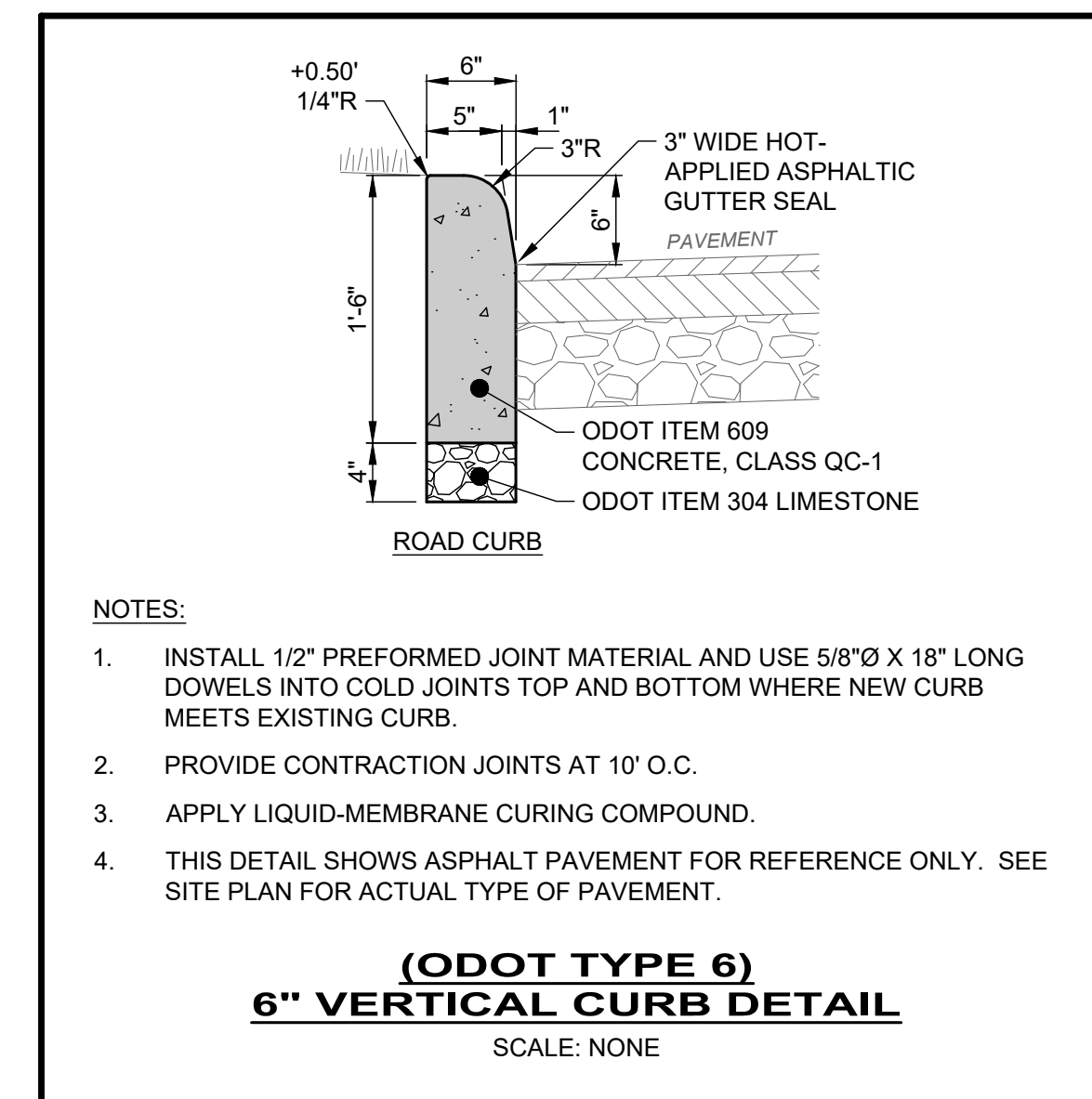
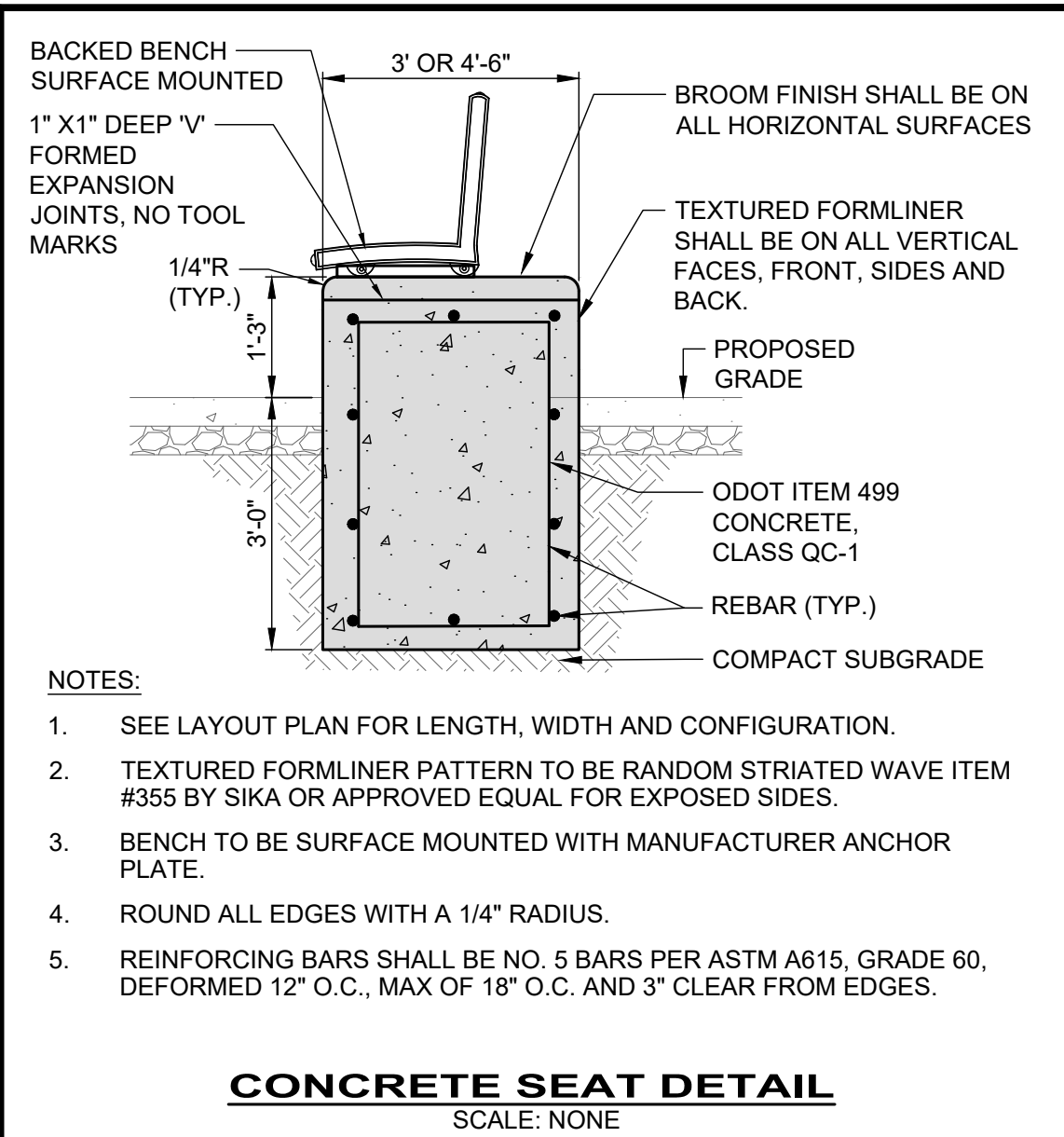
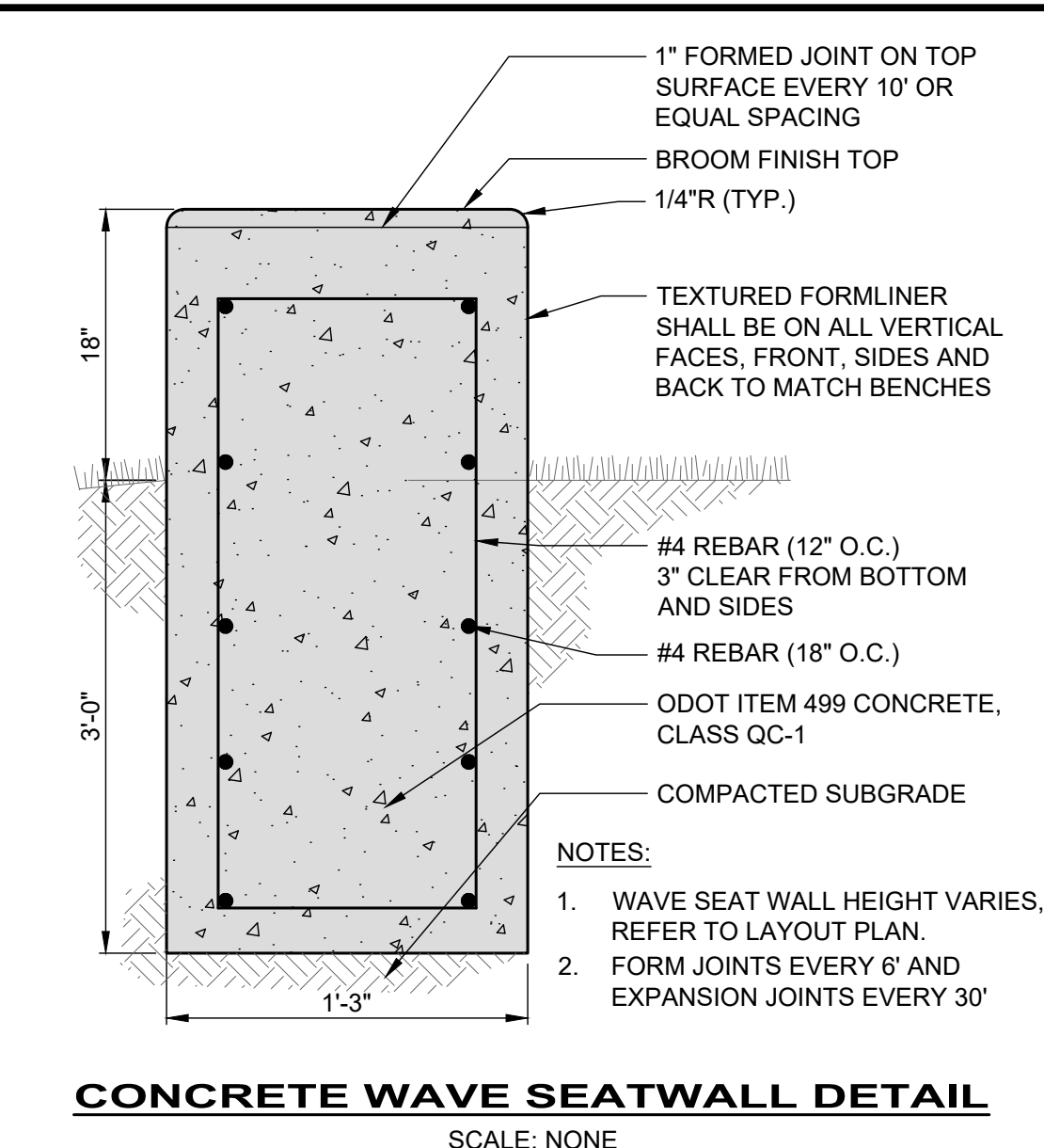
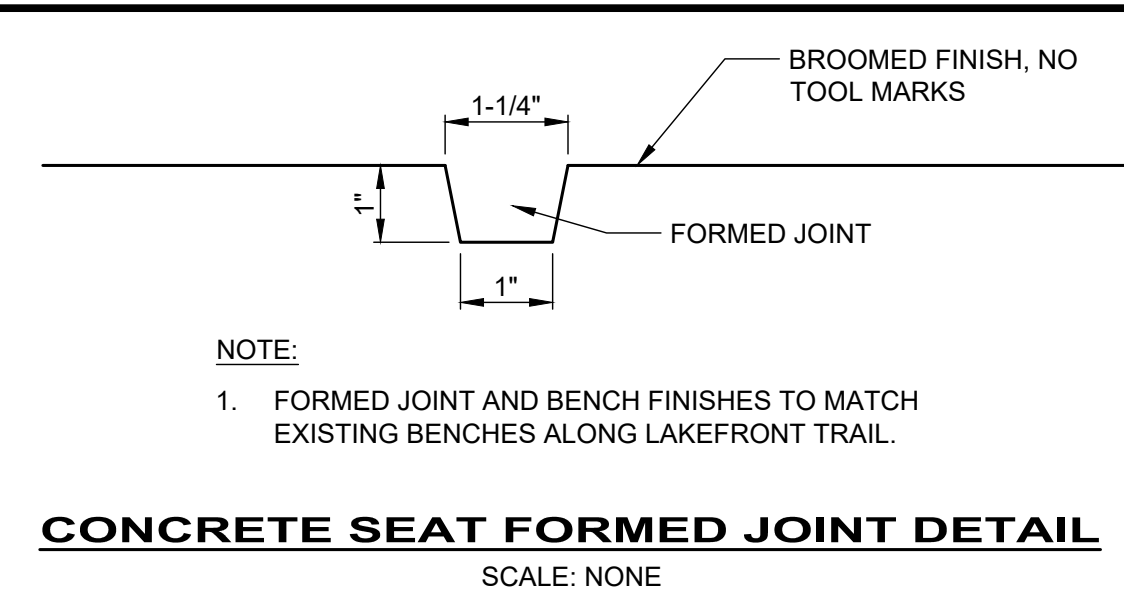
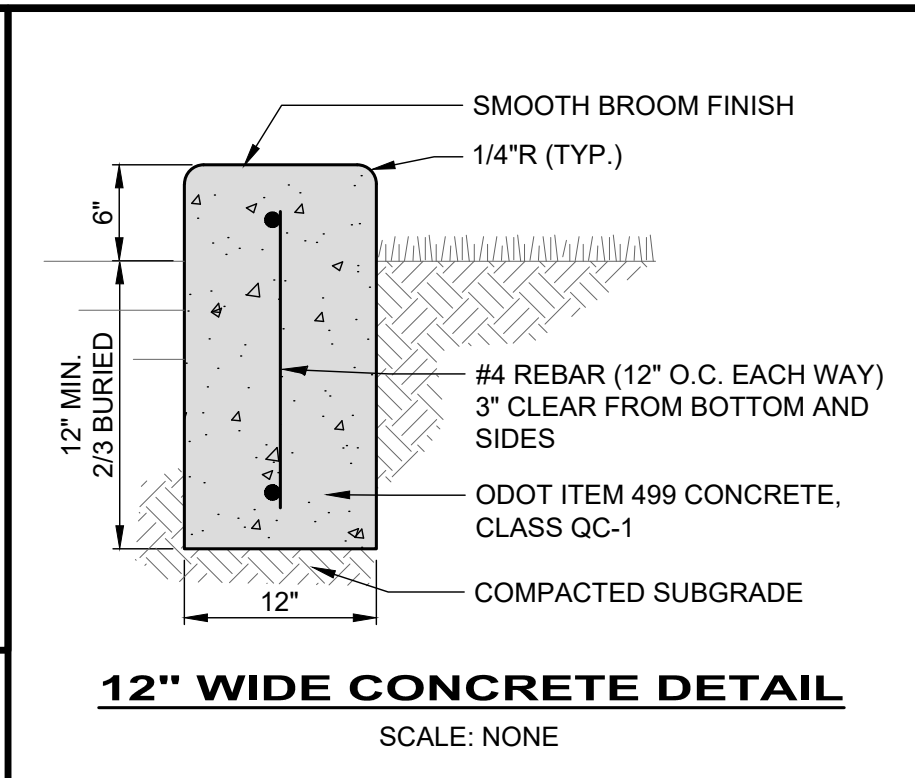
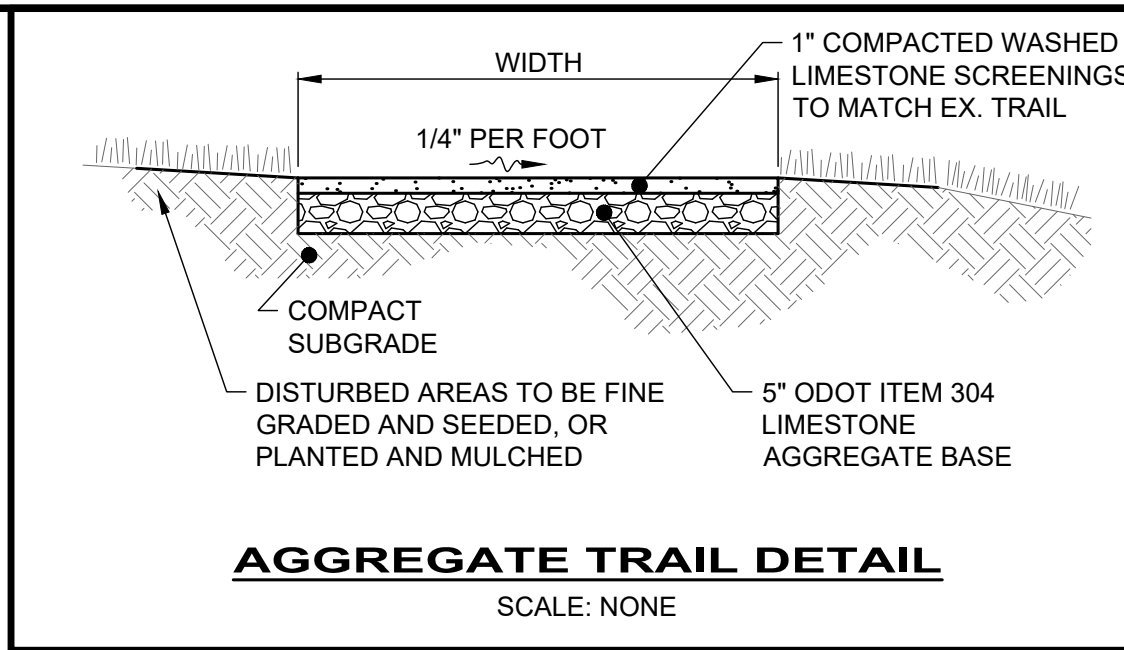


NO.	REVISION	DATE

ISSUED FOR:	FOR REBID	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
		7/12/24	AS SHOWN	RRW, RDS	RRW, RDS	RRW, LH

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

PROJECT NO.	DISCIPLINE	SHEET NAME	SHEET	OF
232067	LAND	SD-1	7	13



NO.	REVISION	DATE

ISSUED FOR:	FOR REBID	7/12/24
ISSUE DATE:	AS SHOWN	RRW, RDS
SCALE:	RRW, RDS	RDS
DESIGNED BY:	RRW, RDS	RDS
DRAWN BY:	RRW, RDS	RRW, LH
CHECKED BY:	RRW, RDS	RRW, LH

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	SD-2
SHEET	8
OF	13

SITE PREPARATION FOR NATIVE PLANTING

1. PRIOR TO SITE GRADING ERADICATE EXISTING VEGETATION:
 - A. MOW AND REMOVE FROM THE SITE ALL HEAVY GRASS, WEEDS, AND OTHER VEGETATION BEFORE STRIPPING TOPSOIL FROM THE EXCAVATION AREAS PER ODOT 659.05.
 - B. GRADING OPERATIONS MAY BEGIN. REFER TO CIVIL DRAWINGS FOR GRADING.
2. AFTER ALL SITE GRADING IS COMPLETE:
 - A. ALLOW SITE TO SIT UNDISTURBED FOR 14 DAYS. DO NOT DISTURB TOPSOIL ONCE SITE GRADING IS COMPLETE AND THE SPRAYING PROGRAM BEGINS. ANY AREAS DISTURBED AFTER SPRAYING MUST BE RETREATED WITH THE HERBICIDE.
 - B. ALLOW WEEDS TO GROW. SPRAY WITH HERBICIDE WHEN 6 TO 12 INCHES TALL. WAIT 14 DAYS, MOW AND REMOVE CUT PLANT MATERIAL FROM THE SITE.
 - C. ALLOW WEEDS TO RE-GROW ONE MORE TIME, AND SPRAY IN LATE AUGUST OR EARLY SEPTEMBER WITH ROUNDUP ONLY. WAIT 14 DAYS, MOW AND REMOVE CUT PLANT MATERIAL FROM THE SITE.
 - D. ALLOW SITE TO SITE UNDISTURBED FOR 14 DAYS. IF WEED REGROWTH IS PREDOMINANT, REPEAT HERBICIDE TREATMENT ONE MORE TIME. WAIT 14 DAYS, MOW AND REMOVE CUT ANY PLANT MATERIAL FROM THE SITE.
 - E. AFTER WAITING 14 DAYS FROM LAST HERBICIDE TREATMENT, THE SITE IS READY FOR SEEDING AND PLANTINGS OPERATIONS.
3. HERBICIDES:
 - A. SELECT HERBICIDES BASED ON LOCATION AND EXISTING VEGETATION TO BE ELIMINATED.
 - B. GLYPHOSATE (RODEO, AQUAMASTER, AND AQUANEAT) OR OTHER AQUATIC SAFE HERBICIDE FORMULATION.
 - C. HAVE A LICENSED SPRAY TECHNICIAN APPLY HERBICIDES.
 - D. ROUNDUP MAY BE USED IN NON AQUATIC APPLICATIONS.
4. SEEDING
 - A. WILDFLOWER SEEDING SHALL BE PER ODOT ITEM 659.12.
 - B. BEFORE PLACING TOPSOIL OR SEED REMOVE ROCK OR OTHER FOREIGN MATERIAL OF 3 INCHES OR GREATER IN ANY DIMENSION, FROM ALL AREAS.
 - C. WILDFLOWER SEEDING MAY OCCUR LATE FALL AFTER SOIL TEMPERATURES ARE BELOW 50°. TYPICALLY NOVEMBER 1. UNLESS THE SEED MANUFACTURER ALLOWS SEEDING FROM MARCH 1 TO MAY 31. IF FEASIBLE, THE SEED CAN BE SOWN THROUGHOUT THE WINTER IF SOIL TEMPS STAY BELOW 50F.
 - D. SEEDING SHALL BE DONE DRY AND SHALL NOT BE PERFORMED WHEN THERE IS STANDING WATER. SEEDING MAY BE DONE WHEN THE GROUND IS FROZEN IF THE AREA WILL NOT BECOME INUNDATED WITH WATER.
 - E. APPLY THE SPECIFIED NURSE/COVER CROP IF A TEMPORARY COVER CROP IF SEEDING IS UNABLE TO BE PERFORMED DURING THE RECOMMENDED TIME PERIOD.
 - F. USE SPECIFIED NURSE/COVER CROP WITH THE SEED APPLICATION TO REDUCE SOIL EROSION.
 - G. REFER TO SEEDING AND PLANTING SCHEDULES FOR SPECIES ON PLANS.
 - H. BROADCASTING: FOR SMALL (TYPICALLY TWO ACRES OR LESS) OR IRREGULARLY SHAPED AREAS, SEED CAN BE PLANTED BY HAND BROADCASTING. TO AID SEED DISTRIBUTION, COMBINE THE SEED MIX WITH FILLER MATERIALS, SUCH AS SAWDUST, PEAT MOSS, OR VERMICULITE. MIX THE MATERIAL EVENLY INTO THE FILLER MATERIAL, WHICH SHOULD BE SLIGHTLY DAMP SO THAT THE SEED STICKS TO IT. PLANT A TEMPORARY NURSE CROP ALONG WITH THE SEED, TO STABILIZE THE SOIL.
 - I. SEED SHALL BE SOWN IN TWO DIRECTIONS, RIGHT ANGLE TO EACH OTHER BY HAND THEN LIGHTLY RAKE THE SEED INTO THE SOIL 1/8" TO 1/4" IN DEPTH. DO NOT COVER SEED MORE THAN 1/4-INCH DEEP. AFTER BROADCASTING IS COMPLETE, THEN USE A ROLLER AND ROLL ONE WAY AND THEN AT 90° TO THE FIRST ROLLING.
 - J. APPLY 1/8" LAYER OF WEED FREE STRAW MULCH APPLIED TO SEEDED AREAS PER ODOT ITEM 659.06 AND APPLIED PER SECTION 659.09.
 - K. APPLY EROSION MATTING ON STREAM BANK SLOPES PER THE SWPPP DOCUMENTS.
 - L. MAINTAIN PER ODOT ITEM 659. MAINTAIN ALL SEEDED AND MULCHED AREAS UNTIL FINAL INSPECTION. REPAIR DAMAGED AREAS TO THE ORIGINAL CONDITION AND GRADE. REPAIR SEEDING AND MULCHING. REPAIR ALL DAMAGE OR EROSION OF THE SEEDED AND MULCHED AREAS BEFORE THE COMPLETION OF THE PROJECT.
 - M. ANY AREAS THAT DO NOT SHOW A SATISFACTORY GERMINATION OF GRASS SHALL BE RESEEDED UNTIL A DENSE MEADOW, FREE OF BARE SPOTS, AREAS OF WASHOUT OR EROSION DAMAGE HAS BEEN ESTABLISHED.
 - N. REFERTILIZING: RESEEDED AREAS SHALL BE REFERTILIZED PER SPECIFICATIONS.
5. CLEAN-UP
 - A. UPON COMPLETION OF THE PLANTING, ALL EXCESS SOIL, STONES AND DEBRIS, WHICH HAS NOT PREVIOUSLY BEEN CLEANED UP SHALL BE REMOVED FROM THE SITE OR DISPOSED OF AS DIRECTED BY THE OWNER.
 - B. ANY SOIL, PEAT, OR SIMILAR MATERIAL WHICH HAS BEEN BROUGHT ONTO PAVED AREAS BY HAULING OPERATIONS OR OTHERWISE SHALL BE REMOVED PROMPTLY, KEEPING THESE AREAS CLEAN AT ALL TIMES.

- C. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.
6. MAINTENANCE AND WARRANTY
 - A. REFER TO SEEDING AND MULCHING SPECIFICATION SECTION 329200.19.

NATIVE SEEDING MAINTENANCE NOTES

1. MEADOW MAINTENANCE AND WEED CONTROL SHALL BE APPLIED BY AN ENVIRONMENTAL LANDSCAPE MANAGEMENT COMPANY FAMILIAR WITH MEADOW PLANTINGS. PROVIDE OWNER WITH PROJECT EXAMPLES AND A LIST OF REFERENCES AND CONTACT INFORMATION. OWNER TO MAKE SELECTION OF MANAGEMENT COMPANY BASED ON POSITIVE REFERENCES.
2. THE CONTRACTOR IS RESPONSIBLE FOR SITE NATIVE SEEDING AND PLANTING MAINTENANCE FOR ONE FULL GROWING SEASON DURING WARRANTY PERIOD.
3. DURING THE FIRST GROWING SEASON IF THERE IS LESS THAN 5% OF MEADOW GERMINATION AND PREDOMINANTLY WEED GROWTH, THE NATIVE SEEDED AREAS SHOULD BE MOWED TWO TO FOUR TIMES, TO A HEIGHT OF APPROXIMATELY 8", WHEN THE GROWTH HAS REACHED A HEIGHT OF ABOUT 12". IF A MOWER CANNOT BE SET TO THE APPROPRIATE HEIGHT, A FLAIL MOWER OR BRUSH HOG MAY BE USED. IF A STRING TRIMMER IS USED, ALL THATCH MUST BE RAKED-OFF AND BE REMOVED FROM THE SITE. DO NOT REMOVE MORE THAN 30% OF THE PLANT IN ONE MOWING EVENT. MOWING SHOULD CEASE BY MID-SEPTEMBER. ALL CUTTING SHALL BE REMOVED FROM THE SITE.
4. SELECTIVE HERBICIDE APPLICATIONS, OR HAND-PULLING, MAY BE REQUIRED TO CONTROL UNWANTED WEED POPULATIONS. REFER TO OHIO INVASIVE PLANTS WWW.OIPC.INFO/INVASIVE-PLANTS-OF-OHIO.HTML FOR INVASIVE PLANT LIST AND INVASIVE PLANT REMOVAL SPECIFICATION. HAND-PULLED MATERIAL SHALL BE REMOVED FROM THE SITE.
5. PROBLEM WEEDS SHOULD BE SPOT SPRAYED OR OR BY SELECTIVE HERBICIDE GLOVE APPLICATION WITH AN APPROVED HERBICIDE (SUCH AS AQUANEAT, RODEO OR GARLON 3A), OR A SIMILAR AQUATIC HERBICIDE FORMULATION OR HAND PULLED.
6. REFER TO INVASIVE PLANT REMOVAL AND SEEDING SPECIFICATION

GENERAL NOTES:

1. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE PREPARATION.
2. ALL EXISTING AREAS OUTSIDE OF THE CONSTRUCTION AREA SHALL REMAIN UNDISTURBED.
3. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AND SEEDED WITH APPROPRIATE SEED MIX.
4. ANY TEMPORARY CONSTRUCTION ROADS OR INGRESS/EGRESS POINTS SHALL HAVE ANY GRAVEL REMOVED, TOPSOIL PLACED TO A 2" MINIMUM DEPTH AND SEEDED.
5. REFER TO MANUFACTURER FOR ALL SEED AND FERTILIZER APPLICATION RATES.
6. NURSE CROP: FOR RAPID ESTABLISHMENT AND EROSION CONTROL, MIX IN WITH SEED MIX REGREEN™ AS A NURSE CROP FOR ALL SEED MIXES. SEED SEED MIXES ON THIS SHEET.
7. ALL TOPSOIL RESPREADING AND SEEDING SHALL BE INCLUDED IN BID.
8. THESE DOCUMENTS ARE MEANT TO SERVE AS A GUIDE FOR CONSTRUCTION; MODIFICATIONS TO THE DESIGNS MAY BE REQUIRED TO ACCOMMODATE VARYING FIELD CONDITIONS OR MODIFIED PLANT ARRANGEMENTS.
9. QUALITY AND SIZES OF PLANTS TO MEET AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS.
10. ALL SUBSTITUTIONS OF SIZES OR VARIETIES SUBJECT TO APPROVAL OF OWNER.
11. IF QUANTITIES LISTED IN PLANT MATERIAL LIST DO NOT CORRELATE WITH PLANTINGS INDICATED ON PLAN, THE QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SEED QUANTITIES.

NATIVE SEED MIXES

EASTERN GREAT LAKES NATIVE POLLINATOR SEED MIX
HEIGHT: 3'-5'

GRASSES:
SCHIZACHYRIUM SCOPARIUM - LITTLE BLUESTEM
BOUTELOUA CURTIPENDULA - SIDE-OATS GRAMA
ELYMUS VIRGINICUS - VIRGINIA WILD RYE
ELYMUS CANADENSIS - NODDING WILD RYE

WILDFLOWERS:
ECHINACEA PURPUREA - PURPLE CONEFLOWER
COREOPSIS LANCEOLATA - LANCELEAF
COREOPSIS DALEA PURPUREA - PURPLE PRAIRIE CLOVER
GAILLARDIA PULCHELLA - INDIAN BLANKET
RUDBECKIA HIRTA - BLACK-EYED SUSAN
RATIBIDA PINNATA - YELLOW/GREY-HEADED CONEFLOWER
DALEA CANDIDA - WHITE PRAIRIE CLOVER
MONARDA FISTULOSA - WILD BERGAMOT
ZIZIA AUREA - GOLDEN ALEXANDERS
ASCLEPIAS SYRIACA - COMMON MILKWEED
HELIOPSIS HELIANTHOIDES - OX EYE SUNFLOWER
LIATRIS SPICATA - DENSE BLAZINGSTAR
ASCLEPIAS TUBEROSA - BUTTERFLY MILKWEED
COREOPSIS TINCTORIA - PLAINS COREOPSIS
BAPTISIA ALBA (LEUCANTHA) - WHITE WILD INDIGO
VERNONIA FASCICULATA - PRAIRIE IRONWEED
SOLIDAGO RIGIDA - STIFF GOLDENROD
ASTER NOVAE-ANGLIAE - NEW ENGLAND ASTER
ASTER LAEVIS - SMOOTH ASTER
TRADESCANTIA OHIENSIS - OHIO SPIDERWORT
PYCNANTHEMUM TENUIFOLIUM - NARROW LEAVED MOUNTAIN MINT

WET WILDFLOWERS NATIVE SEED MIX
HEIGHT: 3'-5'

WILDFLOWERS:
ASCLEPIAS INCARNATA - SWAMP MILKWEED
VERBENA HASTATA - BLUE VERVAIN
IRIS VERSICOLOR - NOTHERN BLUE FLAG
ECHINACEA PURPUREA - PURPLE CONEFLOWER
PHYSOSTEGIA VIRGINIANA - OBEDEIENT PLANT - PURPLE
EUPATORIUM PERFOLIATUM - COMMON BONESET
RUDBECKIA SUBTOMENTOSA - SWEET BLACK-EYED SUSAN
LOBELIA CARDINALIS - CARDINAL FLOWER
LOBELIA SIPHILITICA - GREAT LOBELIA
HIBISCUS LAEVIS - HALBERDLEAF ROSE MALLOW
ACTINOMERIS ALTERNIFOLIA - WINGSTEM
SOLIDAGO PATULA - SWAMP GOLDENROD
MIMULUS RINGENS - MONKEY FLOWER
ASTER NOVAE-ANGLIAE - NEW ENGLAND ASTER

BUTTERFLY/ HUMMINGBIRD NATIVE SEED MIX
HEIGHT: 3'-5'

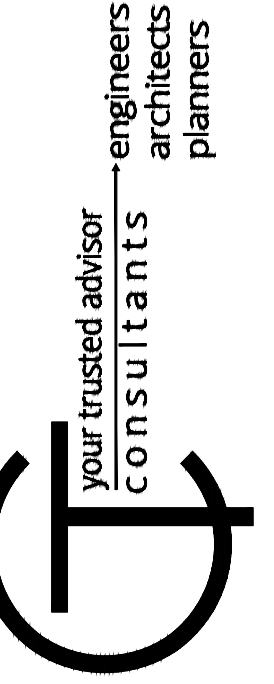
GRASSES:
SCHIZACHYRIUM SCOPARIUM - LITTLE BLUESTEM
ELYMUS CANADENSIS - NODDING WILD RYE
BOUTELOUA CURTIPENDULA - SIDE-OATS GRAMA
ELYMUS VIRGINICUS - VIRGINIA WILD RYE

WILDFLOWERS:
HELIOPSIS HELIANTHOIDES - OX EYE SUNFLOWER
ECHINACEA PURPUREA - PURPLE CONEFLOWER
CHAMAECRISTA FASCICULATA - PARTRIDGE PEA
DALEA PURPUREA - PURPLE PRAIRIE CLOVER
RUDBECKIA HIRTA - BLACK-EYED SUSAN
COREOPSIS TINCTORIA - PLAINS COREOPSIS
LIATRIS SPICATA - DENSE BLAZINGSTAR
ASCLEPIAS TUBEROSA - BUTTERFLY MILKWEED
ASCLEPIAS SYRIACA - COMMON MILKWEED
MONARDA FISTULOSA - WILD BERGAMOT
ASCLEPIAS INCARNATA - SWAMP MILKWEED
DALEA CANDIDA - WHITE PRAIRIE CLOVER
SOLIDAGO RIGIDA - STIFF GOLDENROD
COREOPSIS GRANDIFLORA - LARGE FLOWER COREOPSIS
MONARDA CITRIODORA - LEMON MINT
EUPATORIUM PURPUREUM - SWEET JOE PYE
ZIZIA AUREA - GOLDEN ALEXANDERS
ASTER AZUREUS - SKY BLUE ASTER
HIBISCUS LAEVIS - HALBERDLEAF ROSE MALLOW
ERYNGIUM YUCCIFOLIUM - RATTLESNAKE MASTER
ASTER NOVAE-ANGLIAE - NEW ENGLAND ASTER

NOTES:
1,083 SY OF EASTERN GREAT LAKES NATIVE POLLINATOR SEED MIX NEEDED
803 SY OF WET WILDFLOWERS NATIVE SEED MIX NEEDED
1,312 SY OF BUTTERFLY/ HUMMINGBIRD NATIVE SEED MIX NEEDED



Richard Washington, License #734
Expiration Date 12/31/2024



DATE	REVISION	NO	FOR REBID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
					7/12/24	AS SHOWN	RRW, RDS	RDS	RRW, LH

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

SPECIFICATIONS

PROJECT NO.	
232067	
DISCIPLINE	
LAND	
SHEET NAME	
SP-1	
SHEET	OF
9	13

GENERAL NOTES

- ALL WORK REQUIRED TO COMPLETE THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS OR THE SPECIFICATIONS/REQUIREMENTS OF THE CITY, EXCEPT AS HEREIN AMENDED. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CITY REQUIREMENTS SHALL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY OR DESIGN ENGINEER.
- THE CONTRACTOR AGREES TO PAY THE PREVAILING RATES OF WAGES AS ESTABLISHED BY THE INDUSTRIAL COMMISSION OF OHIO FOR THE CLASS OF WORK CALLED FOR.
- ALL WORK INCLUDING PERMITS REQUIRED FOR REMOVAL, RELOCATION OR NEW CONSTRUCTION FOR PRIVATE OR PUBLIC WORK SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR AND INCLUDED IN THE BID PRICES FOR THE VARIOUS WORK ITEMS.
- WHEN SPECIFIED ON THE PLANS OR IN THE SPECIFICATIONS, CONTINGENCY QUANTITIES SHALL BE PERFORMED ONLY UNDER WRITTEN DIRECTION OF THE OWNER. THE CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY CONTINGENCY WORK UNTIL DIRECTED. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE CONTRACTOR.
- ALL WORK IS SUBJECT TO INSPECTION BY THE OWNER. THE OWNER RESERVES THE RIGHT TO HALT CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS OR OTHER APPLICABLE STANDARDS OR REGULATIONS. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.
- ANY DEFECTS IN THE CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE REPLACED OR CORRECTED BY THE CONTRACTOR BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE OWNER WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, ELECTRICAL, STORM OR SANITARY SYSTEMS RESULTING FROM NON-CONFORMANCE WITH THE APPLICABLE STANDARDS OR THROUGH GENERAL NEGLIGENCE. FAILURE BY THE CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL SUBMIT A PLAN OF OPERATIONS FOR REVIEW AND APPROVAL BY THE OWNER THAT WILL INDICATE EQUIPMENT STAGING AREAS, STOCKPILE LOCATIONS, CONSTRUCTION TRAILERS AND SANITATION FACILITIES.
- THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERRECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL.
- ANY EXISTING ROADWAY, LAWN, CURB, SIDEWALK, SIGN, FENCE, LANDSCAPING ITEM, OR OTHER APPURTENANCE DISTURBED DURING CONSTRUCTION BUT NOT DESIGNATED FOR REMOVAL OR REPLACEMENT SHALL BE RESTORED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCHMARKS, PROPERTY LINE REFERENCES (E.G., PINS, PIPES, MONUMENTS), AND ANY OTHER SURVEY REFERENCE. IN CASE OF DISTURBANCE, THE CONTRACTOR SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT THE CONTRACTOR'S EXPENSE AND SHALL BE RESPONSIBLE FOR ANY ERRORS THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE. ALL NOTES AND CALCULATIONS USED IN RESETTling OF PROPERTY PINS, MONUMENTS, REFERENCE POINTS, OR ANY OTHER SURVEY REFERENCE SHALL BE STAMPED, SIGNED AND DATED BY THE REGISTERED SURVEYOR AND COPIES PROVIDED TO THE OWNER.
- THE CONTRACTOR SHALL DESIGNATE AND MAINTAIN A PERSON IN RESPONSIBLE CHARGE (SUPERVISOR) WITH A WORKING CELL PHONE AT THE CONSTRUCTION SITE DURING ALL CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL COORDINATE ALL USE OF PREMISES AND ADJACENT PROPERTIES, INCLUDING PARKING OF VEHICLES, WITH ADMINISTRATOR.
- MATERIAL SAMPLES TO BE SUPPLIED TO THE OWNER FOR APPROVAL PRIOR TO DELIVERY TO THE SITE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY TOILET FACILITIES AND COORDINATE LOCATION WITH THE OWNER AND FACILITIES STAFF.
- THE OWNER WILL NOT BE RESPONSIBLE FOR THE LOSS OR DAMAGE TO ANY OF CONTRACTOR'S EQUIPMENT OR SUPPLIES STORED ON THE PREMISES.
- PRIOR TO THE RELEASE OF THE RETAINER OR CONSTRUCTION BOND BY THE OWNER, THE CONTRACTOR MUST COMPLETE THE PROJECT PUNCH LIST. ALL PUNCH LIST ITEMS SHALL BE COMPLETED WITHIN ONE (1) MONTH OR 30 DAYS OF THE PUNCH LIST ISSUANCE DATE OR AS DIRECTED IN WRITING FROM THE OWNER.
- WARRANTEE PERIOD SHALL BEGIN AT THE ISSUANCE OF THE CERTIFICATE OF COMPLETION AND SHALL END EXACTLY ONE YEAR FROM THAT DATE. THE CONTRACTOR WARRANTS TO THE OWNER THAT MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE OF GOOD QUALITY AND NEW, THAT THE WORK WILL BE FREE FROM DEFECTS THAT THE WORK WILL CONFORM WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

EXISTING CONDITION AND DEMOLITION NOTES:

- THE CONTRACTOR MUST CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 AND THE OHIO OIL AND GAS ASSOCIATION (OGPUPS) AT 1-800-925-0988 AT LEAST 48 HOURS, BUT NO MORE THAN 10 WORKING DAYS, BEFORE BEGINNING ANY DIGGING, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WRITTEN REQUIREMENTS OF OUPS AND OGPUPS. THE CONTRACTOR SHALL COORDINATE THE MARKING AND/OR LOCATING TO STAY A MINIMUM OF TWO WORKING DAYS AHEAD OF PLANNED CONSTRUCTION ACTIVITIES.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)
- CLEARING AND GRUBBING SHALL BE PERFORMED WHERE EARTHWORK IS REQUIRED. THIS WORK SHALL INCLUDE CLEARING, GRUBBING, SCALPING, TREE AND STUMP REMOVAL, AND THE REMOVAL AND DISPOSAL OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS OF WORK. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ODOT ITEM 201, CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIAL, DEMOLISHED MATERIALS AND WASTE MATERIALS INCLUDING TREES, STUMPS, BRUSH, TRASH AND DEBRIS, FROM THE PROJECT LIMITS AND LEGALLY DISPOSE OF OFF-SITE.
- PAVEMENT TO BE REMOVED SHALL BE SAWCUT IN A NEAT AND STRAIGHT LINE PRIOR TO EXCAVATION AND REMOVED FULL DEPTH AT LIMITS OR EXISTING JOINTS AS SHOWN IN THE PLANS. ADDITIONAL SAWCUTS MAY BE DESIRED TO FACILITATE THE REMOVAL OF THE EXISTING PAVEMENT, BUT THERE WILL BE NO EXTRA PAYMENT. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAWCUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.
- ANY ITEM NOT MARKED TO BE REMOVED SHALL REMAIN IN PLACE UNDISTURBED AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- NO ATTEMPT HAS BEEN MADE TO NOTE ALL LOCATIONS OR SPECIFIC EXTENT OF DEMOLITION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DEMOLITION NECESSARY TO EXECUTE THE NEW PLAN INCLUDING COORDINATION OF DEMOLITION WORK WITH NEW WORK SO AS NOT TO CREATE CONFLICTS OF NEW INSTALLATION.
- THE CONTRACTOR SHALL REMOVE ALL SURPLUS, DEMOLISHED AND WASTE MATERIALS INCLUDING TREES, STUMPS AND BRUSH FROM THE PROJECT AND DISPOSE OF OFF-SITE.
- ALL DEMOLISHED ITEMS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
- ANY UTILITY TO BE REMOVED, RELOCATED, SHUT-OFF, AND/OR RECONNECTED BY THE RESPECTIVE UTILITY COMPANY SHALL BE COORDINATED BY THE CONTRACTOR.
- POLES AND POST MATERIALS TO BE REMOVED INCLUDES BASE, FOOTERS, WIRES SHALL NOT DAMAGE SURROUNDING SURFACES. HOLES CREATED SHALL BE BACKFILLED.
- ALL EXCAVATIONS RESULTING FROM UTILITY REMOVALS SHALL BE BACKFILLED WITH PREMIUM GRANULAR MATERIAL MEETING ODOT ITEM 304 TO WITHIN 8" OF SURFACE. TOP WITH TOPSOIL IN LAWN AREAS.
- EXISTING ASPHALT AND CONCRETE PAVEMENT AND SIDEWALK TO BE REMOVED SHALL BE SAW CUT IN A NEAT AND STRAIGHT LINE PRIOR TO EXCAVATION AND REMOVED FULL DEPTH AT NEAREST EXISTING JOINTS OR AT LIMITS AS SHOWN ON THE CONSTRUCTION PLANS. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAW CUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.

SITE RESTORATION

- THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.
- THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST.
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
- SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
- APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING.
- PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED. AVOID EXCESSIVE IRRIGATION AND MONITOR TO PREVENT EROSION AND DAMAGE FROM RUNOFF.
- PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION, AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.

MAINTENANCE OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL SIGNS, FLAGS, FLAG PERSONS, BARRICADES, SIGN SUPPORTS, CONES, BARRELS AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISED EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH TRAFFIC SHALL BE KEPT MINIMAL AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS AT ALL TIMES.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE CITY, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.

GRADING NOTES:

- ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. THE OWNER NOR THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE BIDDER SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE OR ESTIMATE TO THEIR SATISFACTION ANY EXISTING SITE CONDITION WHICH COULD AFFECT HIS BID OR THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, OBSTRUCTIONS, ETC.
- THE CONTRACTOR SHALL PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES TO REMAIN FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING OPERATIONS.
- THE INTENT OF THIS PROJECT IS TO UTILIZE ALL USEABLE MATERIALS EFFICIENTLY. ACTUAL FIELD CONDITIONS MAY REQUIRE DECISIONS ON MATERIAL HANDLING AND USAGE. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AND MAINTAINING SITE CONDITIONS.
- THE CONTRACTOR SHALL STRIP TOPSOIL FROM AREAS TO BE GRADED AND STOCKPILE IT PRIOR TO SITE GRADING OPERATIONS. TOPSOIL SHALL BE STRIPPED TO WHATEVER DEPTH ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- DO NOT STOCKPILE SOIL MATERIALS NEAR THE EDGE OF EXCAVATIONS OR WITHIN DRIP LINES OF TREES TO REMAIN.
- EXCESS MATERIAL GENERATED FROM TRENCH EXCAVATION OPERATIONS SHALL BE INCORPORATED IN THE UNIT PRICE BID FOR EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION.
- THE CONTRACTOR SHALL PERFORM EXCAVATION AND EMBANKMENT OPERATIONS AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS AND ACHIEVE THE FINISHED GRADES SHOWN ON THE PLANS, EXCEPT AS NOTED:
 - STRUCTURAL FILL SHALL BE PLACED AND COMPACTED UNDER ALL BUILDING SLABS, FOOTINGS AND PAVEMENT.
 - ENGINEERED FILL SHALL BE PLACED AND COMPACTED UNDER ALL DRIVES, WALKS, STEPS AND RAMPS.
 - STRUCTURAL AND ENGINEERED FILL SHALL BE WETTED OR DRIED TO NEAR ITS OPTIMUM MOISTURE CONTENT, PLACED IN LIFTS AND COMPACTED TO A MINIMUM PERCENT COMPACTION, ALL UNDER THE OBSERVATION AND TESTING OF A GEOTECHNICAL ENGINEER.
 - SOIL OBTAINED ON-SITE MAY BE USED AS FILL MATERIAL PROVIDED IT IS FREE OF ORGANIC MATTER, DEBRIS, EXCESSIVE MOISTURE, AND ROCK FRAGMENTS 6" AND LARGER.
 - NO SLAG, RIVER GRAVEL, RECYCLED PORTLAND CEMENT CONCRETE, RECLAIMED ASPHALT CONCRETE PAVEMENT OR RECLAIMED BITUMINOUS AGGREGATE BASE MAY BE USED.
 - THE CONTRACTOR SHALL DISPOSE OFF-SITE ANY EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON-SITE.
 - UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF PROPOSED IMPROVEMENTS (I.E. BUILDINGS, UTILITIES, PAVEMENT, ETC.) SHALL BE UNDERCUT AND REPLACED WITH COMPACTED FILL OR STABILIZED IN-PLACE UTILIZING CONVENTIONAL MEASURES SUCH AS DISCING, AERATION OR RECOMPACTION. OTHER MEANS OF STABILIZATION SHALL BE AT THE DISCRETION OF THE OWNER OR GEOTECHNICAL ENGINEER.
- IT IS THE INTENT OF THE SLOPES AND SPOT GRADES NOTED ON THE PLANS TO PROVIDE POSITIVE DRAINAGE TO STORM WATER COLLECTION POINTS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION.
- EXPOSED PAVEMENT SUBGRADE AREAS SHALL BE MAINTAINED IN SUCH CONDITION THAT IT WILL BE WELL DRAINED AT ALL TIMES TO PREVENT PONDING OF WATER AFTER RAINS.
- ALL EXISTING AND PROPOSED MANHOLE COVERS, VALVE BOXES, ETC., LOCATED WITHIN PEDESTRIAN RIGHT-OF-WAYS OR SIDEWALKS SHALL BE FLUSH MOUNTED WITH THE WALKING SURFACE.
- BEFORE ACCEPTANCE OF THE SUB-GRADE UNDER BUILDING SLABS OR PAVEMENT, A PROOF ROLL TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING SHALL BE PERFORMED IN THE PRESENCE OF THE DESIGN ENGINEER USING A PNEUMATIC-TIRED AND LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN FIFTEEN (15) TONS AT A MAXIMUM VEHICLE SPEED OF 3 MPH. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY THE DESIGN ENGINEER, AND REPLACE WITH COMPACTED BACKFILL, AS DIRECTED BY THE DESIGN ENGINEER OR GEOTECHNICAL ENGINEER. AUTHORIZED ADDITIONAL EXCAVATION AND REPLACEMENT MATERIAL SHALL BE PAID ACCORDING TO THE CONTRACT UNIT PRICES.
- THE CONTRACTOR SHALL RECONSTRUCT ANY SUBGRADE DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER OR CONSTRUCTION ACTIVITIES WITHOUT ADDITIONAL COMPENSATION.

LAYOUT NOTES

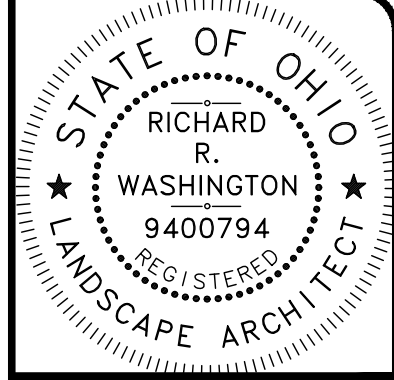
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE ODOT SPECIFICATIONS AND/OR CITY STANDARD DRAWINGS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT STAKING INCLUDING HORIZONTAL AND VERTICAL CONTROL. THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC LAYOUT STAKING. ANY DISCREPANCIES DISCOVERED IN THE PLAN INFORMATION, OR BETWEEN THE PLAN AND ELECTRONIC DATA, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER SO THE APPROPRIATE ADJUSTMENTS MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME. THE DESIGN ENGINEER MAKES NO REPRESENTATION REGARDING FITNESS FOR ANY PARTICULAR PURPOSE, OR SUITABILITY FOR USE WITH ANY SOFTWARE OR HARDWARE. DUE TO THE EASILY ALTERABLE NATURE OF ELECTRONIC DOCUMENTS, THROUGH EITHER UNINTENTIONAL OR INTENTIONAL MEANS, THE DESIGN ENGINEER DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND THEREFORE, ACCEPTS NO LIABILITY FOR THE COMPLETENESS, CORRECTNESS OR READABILITY OF THE ELECTRONIC DATA. HARD COPIES (I.E., PRINTS, PAPER COPIES, ETC.) SHALL PREVAIL IN ANY DISPUTE OVER ACCURACY OR SUFFICIENCY OF ELECTRONIC DOCUMENTS.

UTILITY NOTES:

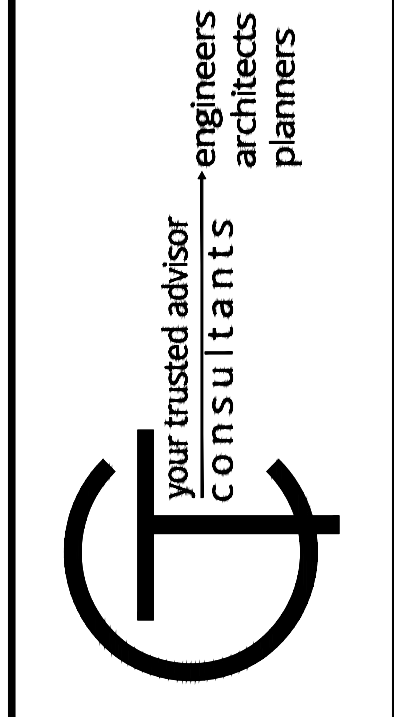
- THE CONTRACTOR SHALL PROTECT, SUPPORT AND SHORE UP ANY EXISTING UTILITY ENCOUNTERED DURING CONSTRUCTION AND COORDINATE ALL WORK TO BE PERFORMED WITH EACH RESPECTIVE UTILITY COMPANY, INCLUDING WORK BEING PERFORMED DIRECTLY BY THE UTILITY COMPANIES, FOR MAIN OR SERVICE CONNECTIONS, DISCONNECTIONS, RELOCATIONS, DEMOLITION AND INSPECTIONS. THE CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS, FEES AND UTILITY COMPANY CHARGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER ACTIVE, COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON. THIS INCLUDES TRENCH PROTECTION SUCH AS TRENCH BOXES, WOOD SHEETING AND BRACING, OR ANY OTHER METHOD DETERMINED BY THE CONTRACTOR TO MAINTAIN A SAFE WORKING ENVIRONMENT. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS (FEDERAL, STATE AND LOCAL).
- WHERE THE PLANS PROVIDE FOR NEW CONDUIT TO BE CONNECTED TO OR CROSS OVER OR UNDER AN EXISTING UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY BOTH AS TO LINE AND GRADE BEFORE BEGINNING TO LAY THE NEW CONDUIT.
- THE CONTRACTOR SHALL JET-CLEAN ALL STORM SEWERS AND VACUUM CLEAN ALL MANHOLES AND CATCH BASINS BEFORE ACCEPTANCE BY THE OWNER.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- STORM SEWERS

STORM MAIN SEWERS SHALL BE ONE OF THE FOLLOWING:

 - POLYVINYL CHLORIDE PIPE (PVC) 4" - 15" DIAMETER
 - ALL POLYVINYL CHLORIDE PIPE IN THIS SIZE RANGE SHALL CONFORM TO ASTM D-3034 SDR 35, SHALL BE INTEGRAL BELL AND SPIGOT TYPE, WITH JOINTS CONFORMING TO ASTM D-3212 AND ELASTOMERIC SEALS CONFORMING TO ASTM F-477.
 - ALL PIPE AND FITTINGS SHALL BE MARKED OR STENCILED IN CONFORMANCE WITH ASTM D-3034. ALL GASKETS SHALL BE MARKED OR STENCILED WITH THE ASTM SPECIFICATION DESIGNATION, NAME OR TRADEMARK OF THE MANUFACTURER, AND PIPE SIZE.
 - POLYVINYL CHLORIDE PIPE (PVC) 18" - 27" DIAMETER
 - ALL LARGE DIAMETER POLYVINYL CHLORIDE PIPE SHALL CONFORM TO ASTM F-679, SHALL BE INTEGRAL BELL AND SPIGOT TYPE, WITH JOINTS CONFORMING TO ASTM D-3212 AND ELASTOMERIC SEALS CONFORMING TO ASTM F-477.
 - ALL PIPE AND FITTINGS SHALL BE MARKED OR STENCILED IN CONFORMANCE WITH ASTM F-679. ALL GASKETS SHALL BE MARKED OR STENCILED WITH THE ASTM SPECIFICATION DESIGNATION, NAME OR TRADEMARK OF THE MANUFACTURER, AND PIPE SIZE.
 - CORRUGATED POLYETHYLENE PIPE 12" DIAMETER AND LARGER
 - ALL CORRUGATED POLYETHYLENE PIPE IN THIS SIZE RANGE SHALL BE SMOOTH LINED CONFORMING TO ODOT 707.33. ALL PIPE AND FITTINGS SHALL BE MARKED OR STENCILED WITH THE APPROPRIATE CLASSIFICATION.
 - HIGH-DENSITY POLYETHYLENE PERFORATED PIPE 8"-15" DIAMETER
 - ALL PERFORATED HDPE PIPE SHALL ONLY BE USED FOR SYNTHETIC TURF FIELD SUBDRAINAGE SYSTEM, NOT FOR ANY OTHER STORM IMPROVEMENTS.
- ALL STORM SEWER JOINTS AND PIPES SHALL BE WATERTIGHT.



Richard Washington, License #734
Expiration Date 12/31/2024



DATE	REVISION	NO	FOR REBID	ISSUED FOR
			7/12/24	
			AS SHOWN	
			RRW, RDS	
			RDS	
			RRW, LH	

KENNETH J. SIMS PARK
CITY OF EUCLID
23131 LAKESHORE BLVD, EUCLID, OHIO 44123
-CUYAHOGA COUNTY-

GENERAL NOTES

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	GN-1
SHEET	OF
10	13

SWP3 LEGEND

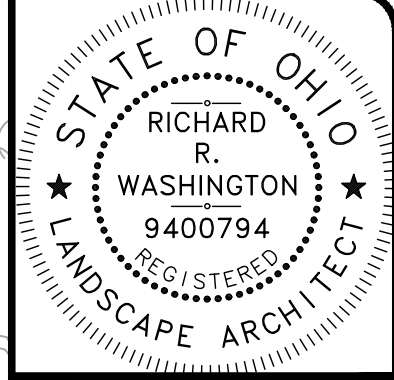
- PR. CONTOUR MEETING EX. CONTOUR
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT PIT
- FILTER SOCK
- STORM INLET PROTECTION
- LIMITS OF DISTURBANCE

NPDES PERMIT

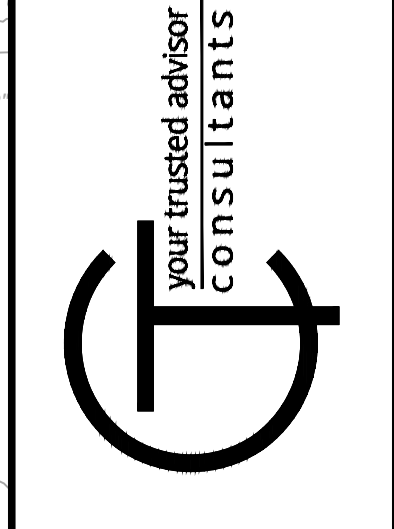
Facility Name: Upland Sims Park
Facility Location: 23131 Lakeshore Blvd.
City: Euclid
County: Cuyahoga
Township: Euclid
Ohio EPA Facility Permit Number: 3GC15236*AG
Permit Effective Date: July 5, 2024
Permit Expiration Date: April 22, 2028

BENCHMARK
 SE CORNER AT SOUTH END OF
 CONC RETAINING WALL
 ELEV=590.31

TOPOGRAPHIC
 INFORMATION IN THE
 WOODED AREA IS BASED
 ON COUNTY TOPOGRAPHY



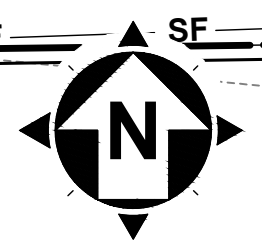
Richard Washington, License #734
 Expiration Date 12/31/2024
 your trusted advisor
 engineers
 architects
 planners
 consultants



ISSUED FOR:	FOR REBID:	NO.	REVISION	DATE
ISSUE DATE:	7/12/24			
SCALE:	AS SHOWN			
DESIGNED BY:	RRW, RDS			
DRAWN BY:	RDS			
CHECKED BY:	RRW, LH			

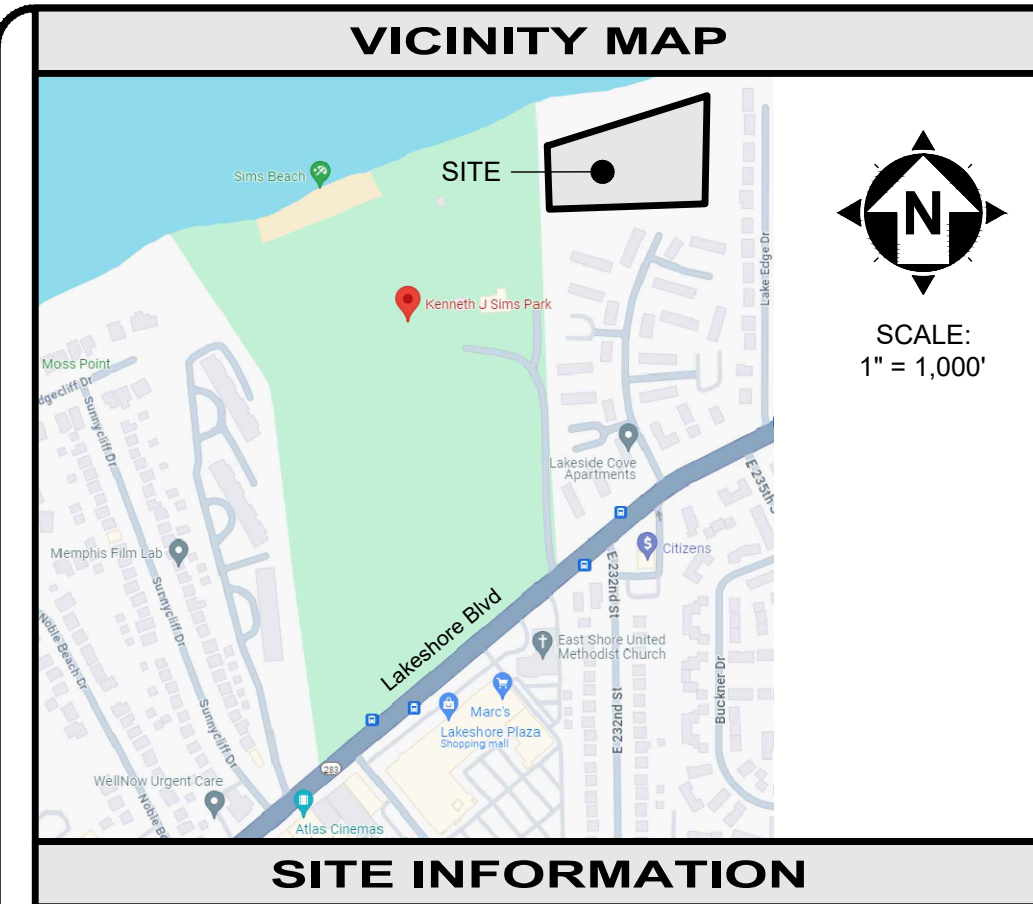
KENNETH J. SIMS PARK
 CITY OF EUCLID
 23131 LAKESHORE BLVD, EUCLID, OHIO 44123
 -CUYAHOGA COUNTY-
STORM WATER POLLUTION PREVENTION PLAN

PROJECT NO.	232067
DISCIPLINE	LAND
SHEET NAME	SWP-1
SHEET	11
OF	13



STM CB
 18" VCP
 RIM: 598.20
 6" VCP S
 BOTTOM 595.72

BAR SCALE
 1" = 20'



SITE INFORMATION

PROJECT INFORMATION: SIMS UPLAND PARK IMPROVEMENTS... OWNER INFORMATION: CITY OF EUCLID... SITE-CIVIL ENGINEER INFORMATION: CT CONSULTANTS, INC... TYPE OF CONSTRUCTION: (X) NEW... TYPE OF PROJECT: (X) COMMUNITY... DESCRIPTION OF PROJECT: DEVELOP NEW PASSIVE PARK WITH TRAILS... DESCRIPTION OF PRIOR LAND USE: PASSIVE PARK WITH OPEN MOWED LAWN AREA... SITE AREA INFORMATION: TOTAL PROPERTY AREA: 4.75 AC... NAME OF RECEIVING STREAM: LAKE ERIE... ESTIMATED CONSTRUCTION START DATE: 06/01/2024

EROSION CONTROL TIMETABLE

Table with columns for months (J, F, M, A, M, J, J, A, S, O, N, D) and rows for various erosion control measures like STABILIZATION, TEMP. SEEDING, PERM. SEEDING, SODDING, MULCHING, and PAVING. Includes a note for IRRIGATION NEEDED.

SOIL TYPES table with columns: NAME, DESCRIPTION, %. Rows: Uc Urban land - Allis complex (67%), UeA Urban land-Elnora complex, nearly level (33%).

GENERAL NOTES

- 1) THIS SWP3 HAS BEEN PREPARED SHOWING THE ITEMS LISTED BELOW, BUT THE CONTRACTOR MAY NEED TO MOVE OR ADD ITEMS AS CONSTRUCTION PROGRESSES... 2) ALL WORK REQUIRED TO IMPLEMENT THE SWP3 INCLUDING INSPECTION FEES... 3) THE CONTRACTOR SHALL AMEND THE SWP3 WHEN THERE IS A CHANGE IN DESIGN... 4) ADDITIONAL OR DIFFERENT BMPs MAY BE NEEDED AS CONSTRUCTION PROGRESSES... 5) PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE LAND DISTURBED...

ADMINISTRATIVE NOTES

- 1) AN OHIO EPA NPDES PERMIT IS REQUIRED WHERE CONSTRUCTION ACTIVITIES DISTURB 1 OR MORE ACRES OF LAND... 2) THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORM WATER GENERAL PERMIT... 3) NO CONSTRUCTION ACTIVITIES MAY BEGIN UNTIL ALL OF THE FOLLOWING OCCUR: OHIO EPA NPDES AUTHORIZATION LETTER RECEIVED... 4) ELECTRONIC VERSIONS OF OHIO EPA FORMS INCLUDING NOI, NOT, CO-PERMITTEE NOI/NOT, INDIVIDUAL LOT NOI/NOT AND TRANSFER ARE AVAILABLE... 5) THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES... 6) THE CONTRACTOR SHALL HAVE SUBCONTRACTORS THAT ARE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORM WATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL"... 7) THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE NOI, NPDES, SWP3 AND INSPECTION LOGS/REPORTS... 8) ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD AND OHIO EPA.

EROSION CONTROL NOTES

Table with columns: AREA REQUIRING TEMPORARY STABILIZATION, TIME FRAME TO APPLY CONTROLS. Rows: AREA WITHIN 50 FEET OF A SURFACE WATER, ANY OTHER AREA TO BE DORMANT MORE THAN 14 DAYS, AREA TO REMAIN IDLE OVER WINTER, AREA TO BE PAVED.

SEDIMENT CONTROL NOTES

- 1) INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING... 2) PERIMETER SEDIMENT BARRIERS SHALL BE INSTALLED AS THE FIRST STEP OF GRADING... 3) SEDIMENT PONDS, TEMPORARILY MODIFIED PERMANENT PONDS AND PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING... 4) SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL... 5) SEDIMENT-LADEN TRENCH OR GROUND WATER MUST PASS THROUGH A SEDIMENT-SETTLING POND... 6) TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS... 7) SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION...

OTHER WASTE CONTROL NOTES

- 1) SOIL STOCKPILES SHALL BE RINGED WITH SILT FENCE ALONG THE BOTTOM FOOTPRINT... 2) CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND... 3) OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED... 4) IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS... 5) FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA... 6) THE CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE... 7) ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES... 8) CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED... 9) STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK...

TMDLS AND BMPs SELECTED

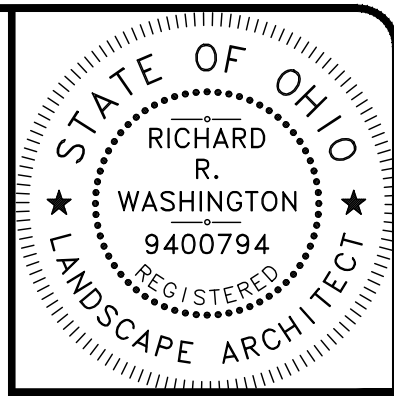
- 1) APPLICABLE TMDLS FOR THE SITE: () PHOSPHORUS, () AMMONIA, () HABITAT, () NITROGEN, () BACTERIA, () FLOW, (X) SEDIMENT/TOTAL SUSPEND SOLIDS... CONSTRUCTION SITE: () DEMARCATÉ PROTECTED AREA BEFORE CONSTRUCTION, (X) MAINTAIN PORTABLE TOILET... TEMPORARY EROSION CONTROL: () CHECK DAMS, () TEMPORARY DIVERSION, () SLOPE DRAIN... SOIL STABILIZATION: (X) DUST CONTROL, (X) MULCHING, () SODDING, (X) TOPSOILING, () GRADE TREATMENT... POLLUTION PREVENTION AND GOOD HOUSEKEEPING: (X) ROUTINE FACILITY INSPECTIONS, (X) VISUAL ASSESSMENT OF STORM WATER DISCHARGE... POST-CONSTRUCTION: () WETLAND SETBACK, () WATER QUALITY POND, () GRASS FILTER STRIP, () TREE BOX FILTER, () GREEN ROOF, (X) RAIN GARDEN AREA... PERMITS CLOSURE REQUIREMENTS: 1) FINAL STABILIZATION REQUIRES THE CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROLS... 2) THE CONTRACTOR SHALL COMPLETE A "FINAL CERTIFICATION AND NOTIFICATION FOR EROSION AND SEDIMENT CONTROL"... 3) ONCE CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SITE REACHES FINAL STABILIZATION... 4) THE CONTRACTOR MUST MAINTAIN ALL REPORTS FOR 3 YEARS AFTER THE NOT IS FILED...

MAINTENANCE REQUIREMENTS

- 1) BMPs SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED... 2) THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS... 3) THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION... 4) ALL INCIDENTS OF NON-COMPLIANCE MUST BE IDENTIFIED IN THE REPORT... 5) BMP MAINTENANCE OR REPAIR MUST BE COMPLETED WITHIN 3 DAYS... 6) WHEN AN INSPECTION REVEALS A BMP IS NOT EFFECTIVE AND A MORE APPROPRIATE BMP IS REQUIRED... 7) WHEN AN INSPECTION REVEALS A BMP HAS NOT BEEN INSTALLED... 8) THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER MONTH... 9) ONCE A DEFINABLE AREA HAS BEEN FULLY STABILIZED... 10) INSPECTIONS SHALL BE PERFORMED UNTIL A NOT IS FILED WITH THE OHIO EPA.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

- 1) HOLD A PRE-CONSTRUCTION MEETING TO DISCUSS OHIO EPA NPDES PERMIT REQUIREMENTS... 2) CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES... 3) BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPs... 4) ESTABLISH STAGING AREA AND NON-SEDIMENT BMPs... 5) INSTALL SILT FENCE, INLET PROTECTION AND CONSTRUCTION ENTRANCE... 6) INSTALL OTHER TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS AS SOON AS POSSIBLE... 7) BEGIN SITE CLEARING AND CONSTRUCTION... 8) INSTALL DEWATERING MEASURES... 9) BEGIN EARTHWORK OPERATIONS... 10) APPLY TEMPORARY SEED... 11) INSTALL STORM SEWERS AND INLETS... 12) INSTALL PAVING... 13) INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND INLETS... 14) APPLY PERMANENT SEED... 15) INSTALL LANDSCAPING... 16) CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING, AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED... 17) REMOVE TEMPORARY BMPs FROM STORM SEWER AND INLETS... 18) DISPOSE OF ALL DEBRIS AND WASTE MATERIAL.



Richard Washington, License #794, Expiration Date 12/31/2024. your trusted advisor engineers architects planners consultants

Table with columns: DATE, REVISION, NO, FOR REBID, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY.

KENNETH J. SIMS PARK CITY OF EUCLID, OHIO 44123 23131 LAKESHORE BLVD, EUCLID, OHIO 44123 -CUYAHOGA COUNTY-

PROJECT NO. 232067, DISCIPLINE LAND, SHEET NAME SWP-2, SHEET 12 OF 13

NOTES:
 1) SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
 2) THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.
 3) THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
 4) APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
 5) SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
 6) SEEDING SHOULD NOT BE APPLIED FROM OCTOBER 1 TO NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DORMANT SEEDING:
 • FROM OCTOBER 1 TO NOVEMBER 20, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, MULCH AND ANCHOR.
 • FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%. PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.
 8) APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING.
 9) PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED. AVOID EXCESSIVE IRRIGATION AND MONITOR TO PREVENT EROSION AND DAMAGE FROM RUNOFF.
 10) PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
 11) ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION, AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.
 12) REFER TO SPECIFICATIONS AND RESTORATION PLAN FOR PERMANENT SEED MIXES.

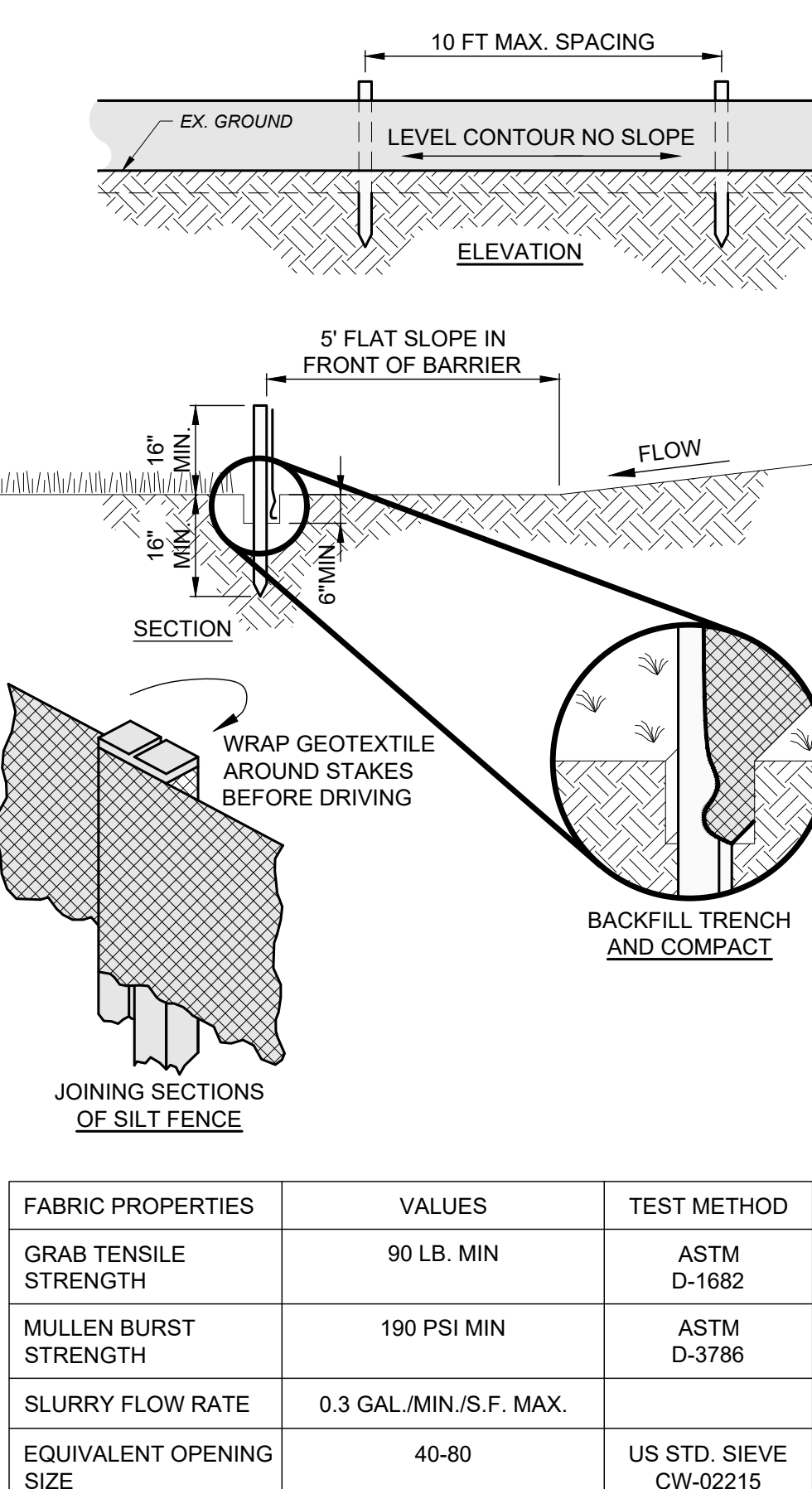
PERMANENT SEEDING DETAIL
 SCALE: NONE

- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH VEGETATION. PERFORM SOIL TESTS TO PREDICT THE NEED FOR LIME OR FERTILIZER. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS.
- APPLY SEED UNIFORMLY. COVER BROADCAST SEED BY RAKING OR DRAGGING, AND LIGHTLY TAMPING INTO PLACE.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 - AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
AUGUST 16 - OCTOBER 31	RYE	3	112
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
NOVEMBER 1 - FEBRUARY 28	WHEAT	3	120
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
PERENNIAL RYEGRASS TALL FESCUE			
		2	40
		1	40

NOVEMBER 1 - FEBRUARY 28 ONLY MULCH OR DORMANT SEEDING.

TEMPORARY SEEDING NOTES



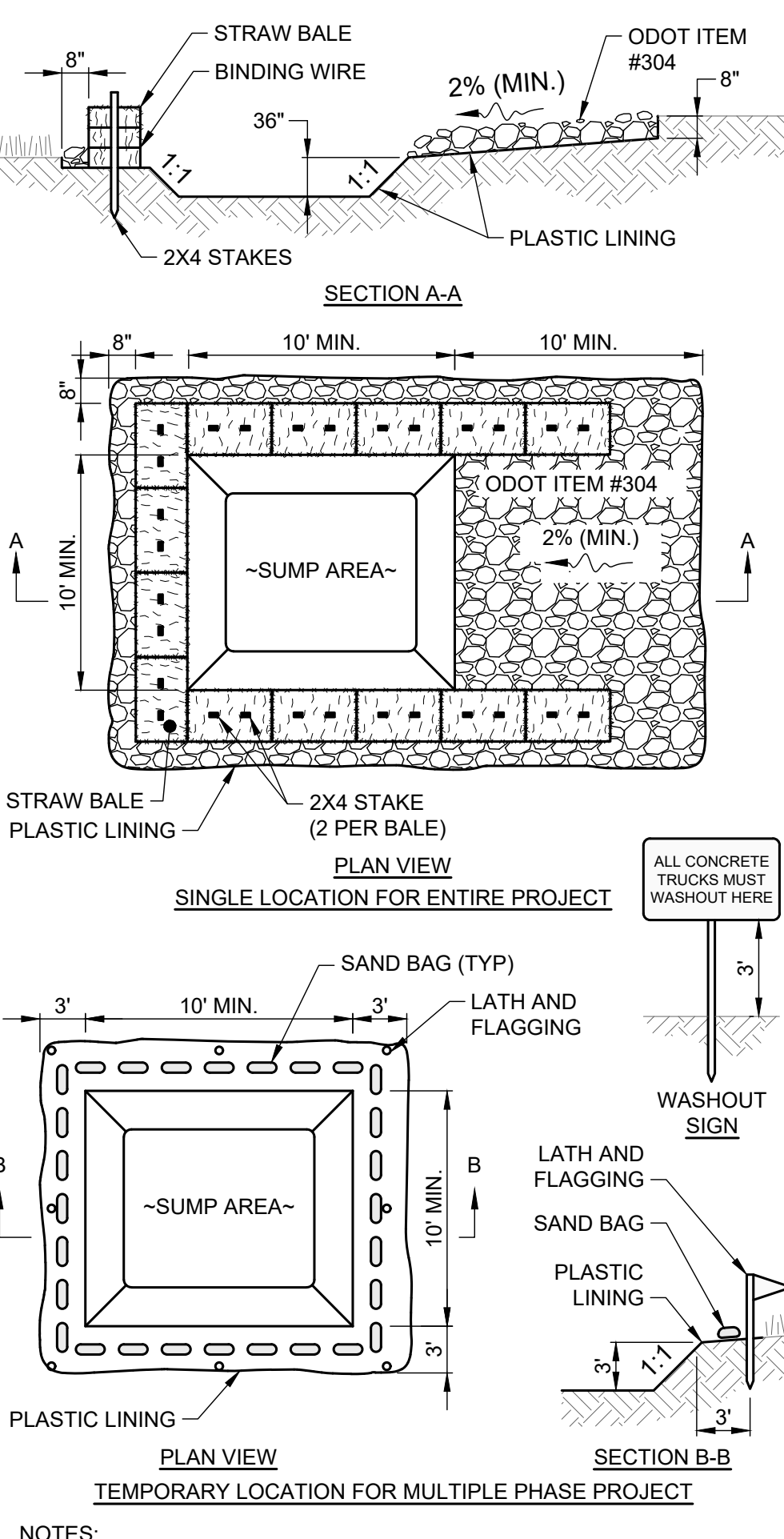
FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

NOTES:
 1) PRESERVE VEGETATION FOR 5 FEET OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
 2) THE MAXIMUM DRAINAGE AREA PER 100 FEET OF SILT FENCE IS DEPENDENT ON THE SLOPE, BUT NO MORE THAN 1/2 ACRE. SILT FENCE CANNOT BE USED FOR DRAINAGE AREAS WITH SLOPES GREATER THAN 50%.
 3) SILT FENCE MAY ONLY PASS RUNOFF AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, THEN CHANGE THE LAYOUT OF THE SILT FENCE. REMOVE ACCUMULATED SEDIMENT OR INSTALL OTHER PRACTICES.
 4) SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, VERIFICATION FABRIC IS SECURELY ATTACHED TO FENCE POSTS, AND VERIFICATION FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED 1/3 THE FENCE HEIGHT.

SILT FENCE
 SCALE: NONE

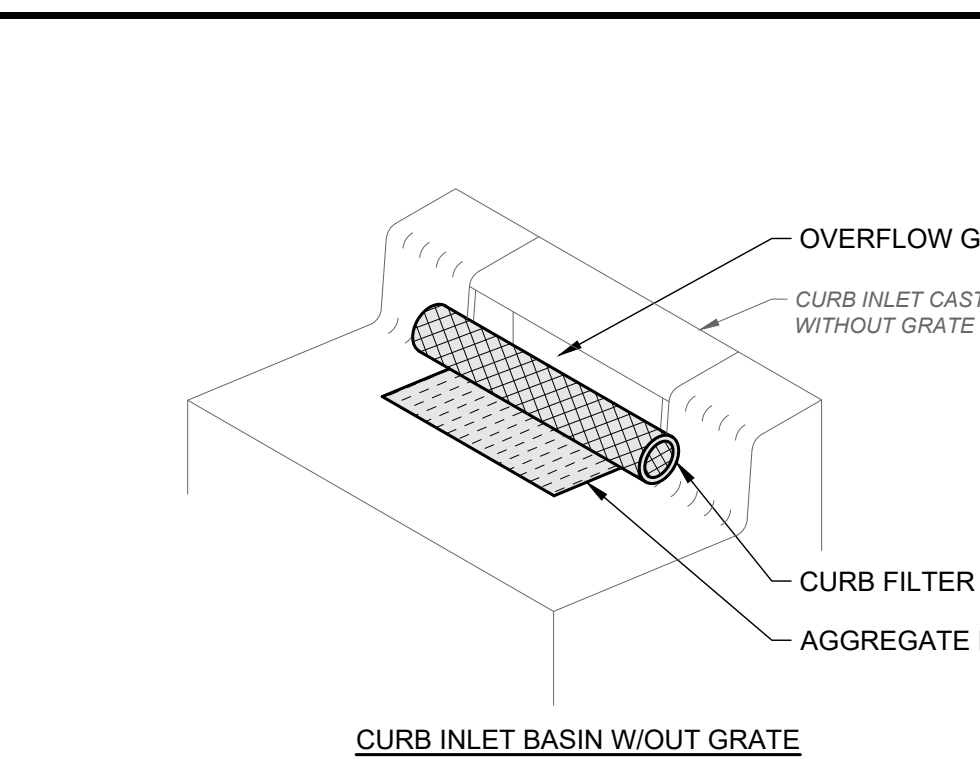
- NOTES:
- MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:
 - UNROTTED SMALL GRAIN STRAW SPREAD UNIFORMLY AT 2 TONS/AC. (2 TO 3 BALES).
 - WOOD-CELLULOSE FIBER (I.E. HYDROSEEDING) APPLIED AT 1 TON/AC.
 - ROLLED EROSION CONTROL PRODUCT OR MULCH MATTING APPLIED PER MANUFACTURER RECOMMENDATION.
 - WOOD MULCH OR CHIPS APPLIED AT 6 TONS/AC.
 - MULCH SHALL BE ANCHORED IMMEDIATELY BY ONE OF THE FOLLOWING METHODS:
 - PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL USING A DISK, CRIMPER OR SIMILAR TOOL. DO NOT FINELY CHOP STRAW TO BE MECHANICALLY ANCHORED, BUT LEAVE LONGER THAN 6".
 - USE NETTING PER MANUFACTURER RECOMMENDATION IN AREAS OF CONCENTRATED RUNOFF OR ON CRITICAL SLOPES.
 - SYNTHETIC BINDERS AT MANUFACTURER RATE.
 - WOOD-CELLULOSE FIBER BINDER AT A NET DRY WEIGHT OF 750 LB/AC., MIXED WITH WATER, AND CONTAIN 50 LB/100 GAL. MAX. OF WOOD CELLULOSE FIBER.

MULCHING DETAIL
 SCALE: NONE

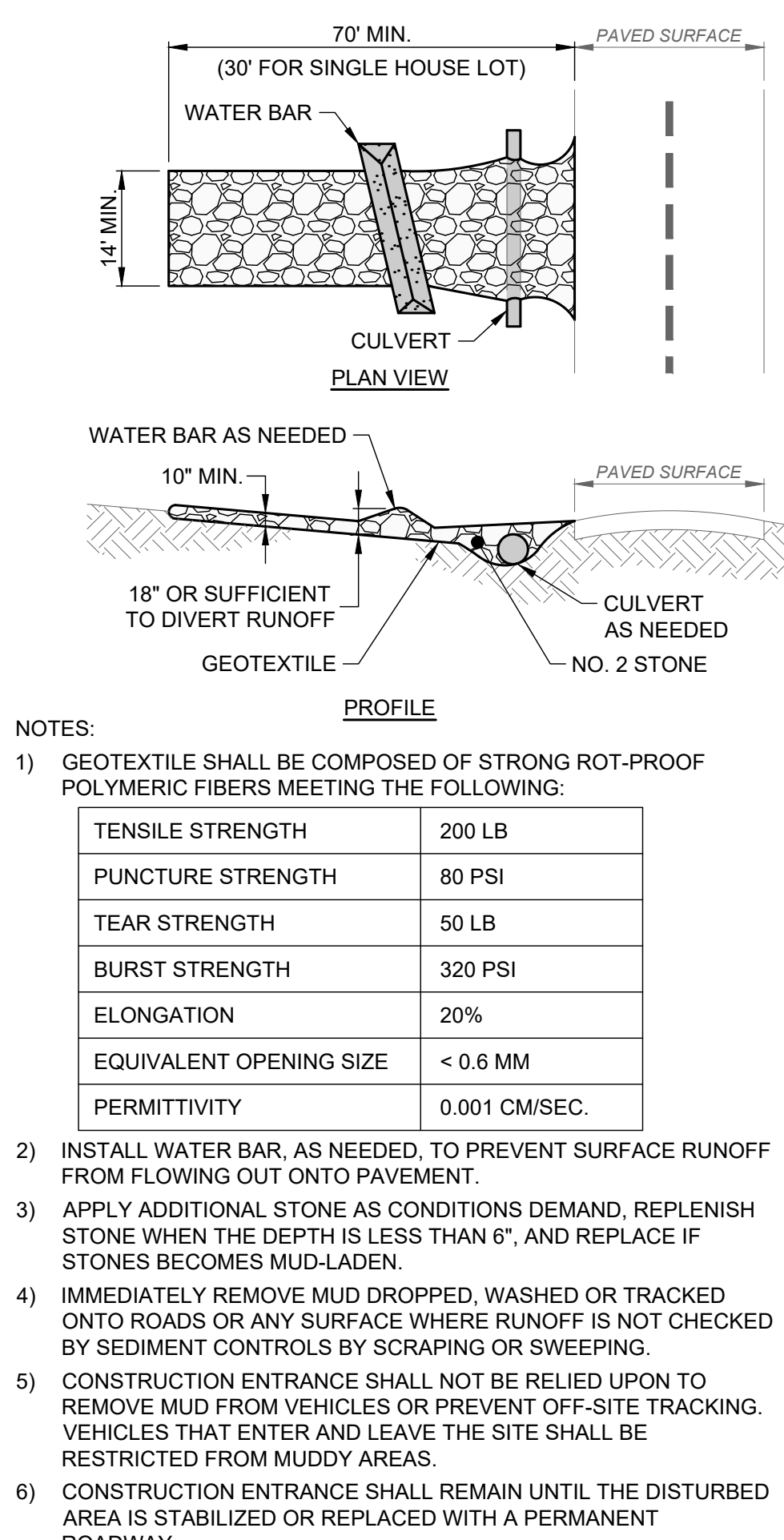


- NOTES:
 1) CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
 2) IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
 3) CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
 4) PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-MIL POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
 5) CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
 6) CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
 7) PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE IF SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
 8) CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

CONCRETE WASHOUT AREA DETAIL
 SCALE: NONE

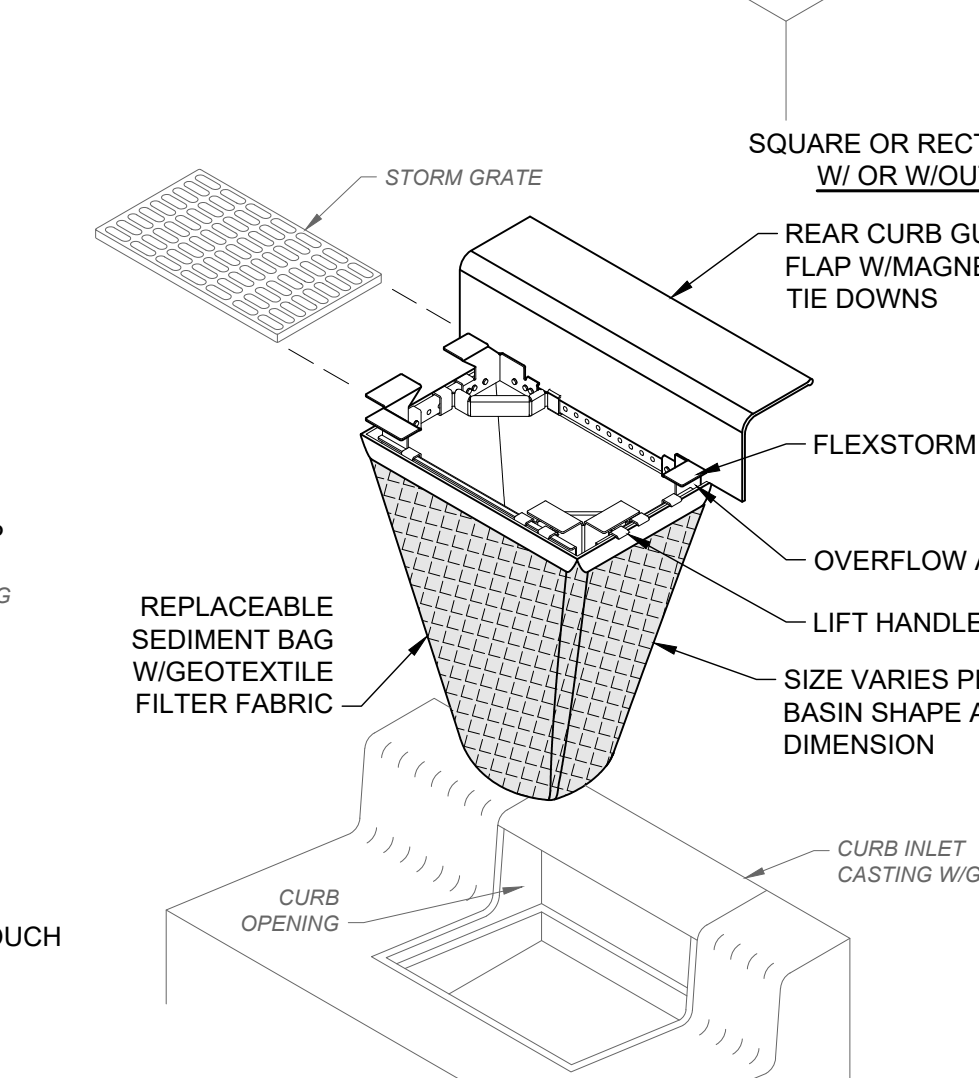


TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT
 SCALE: NONE

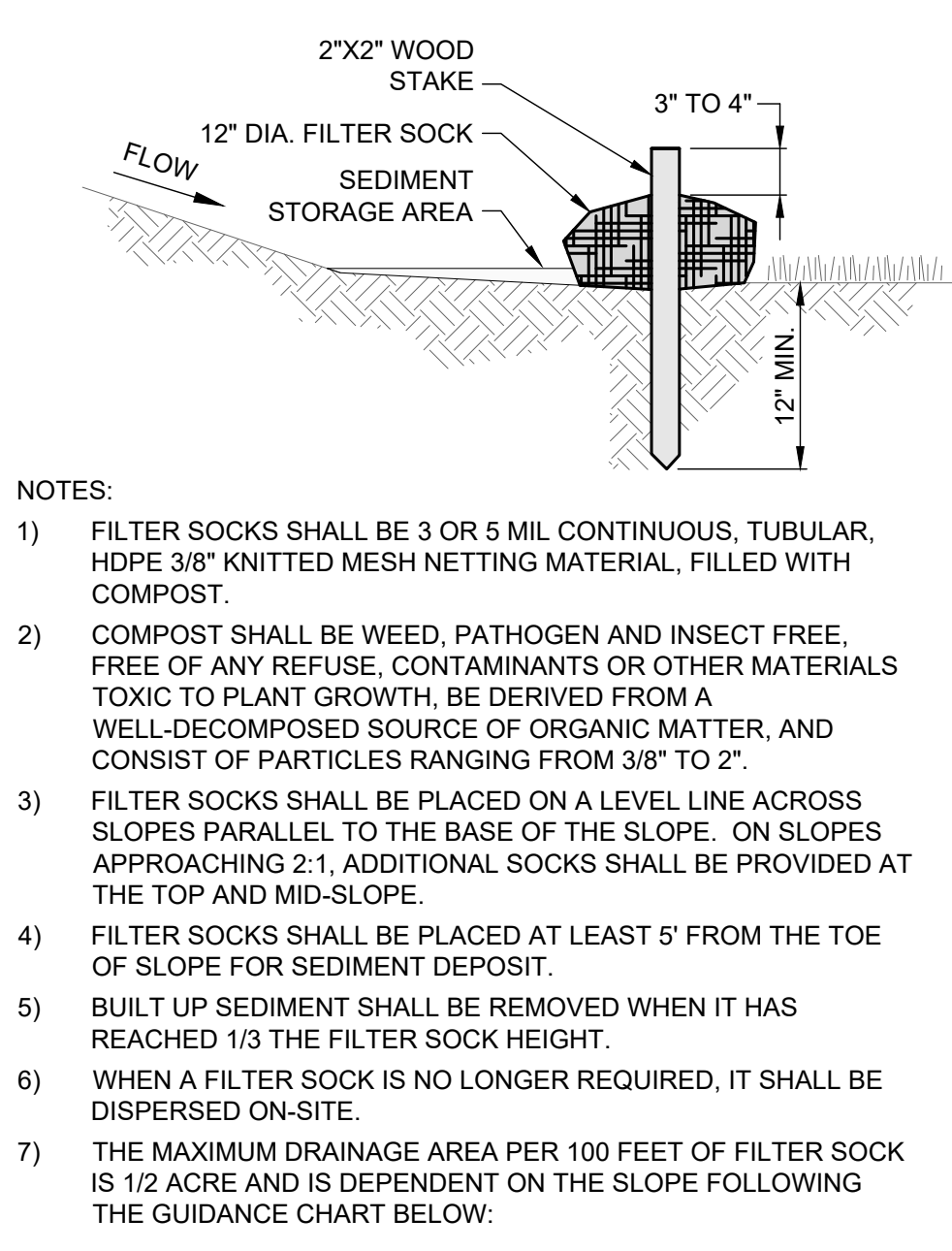


CONSTRUCTION ENTRANCE
 SCALE: NONE

- NOTES:
 1) GEOTEXTILE SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS MEETING THE FOLLOWING:
- | | |
|-------------------------|---------------|
| TENSILE STRENGTH | 200 LB |
| PUNCTURE STRENGTH | 80 PSI |
| TEAR STRENGTH | 50 LB |
| BURST STRENGTH | 320 PSI |
| ELONGATION | 20% |
| EQUIVALENT OPENING SIZE | < 0.6 MM |
| PERMITTIVITY | 0.001 CM/SEC. |
- 2) INSTALL WATER BAR, AS NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING OUT ONTO PAVEMENT.
 3) APPLY ADDITIONAL STONE AS CONDITIONS DEMAND, REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6", AND REPLACE IF STONES BECOMES MUD-LADEN.
 4) IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ON TO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
 5) CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
 6) CONSTRUCTION ENTRANCE SHALL REMAIN UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY.

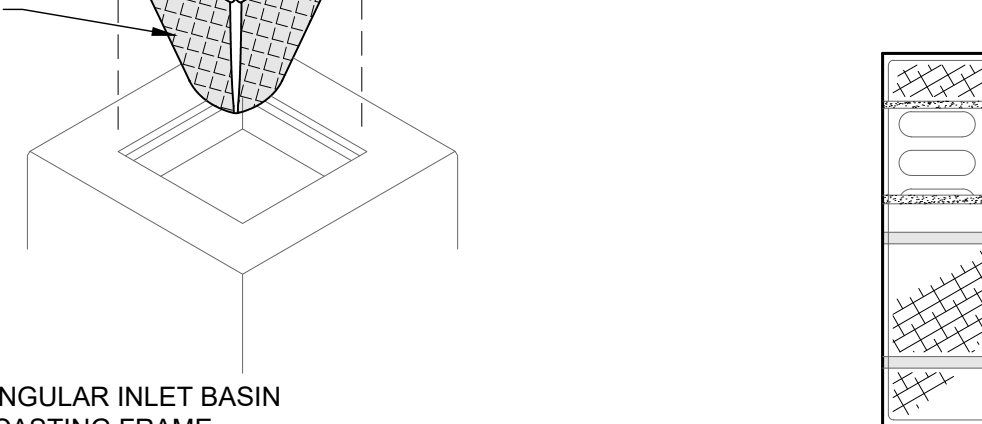
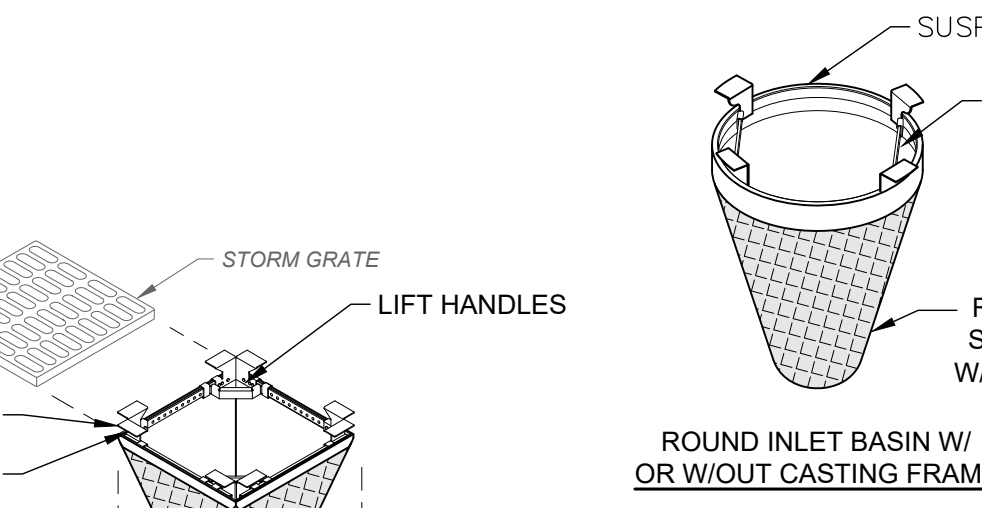


INLET PROTECTION DETAIL
 SCALE: NONE



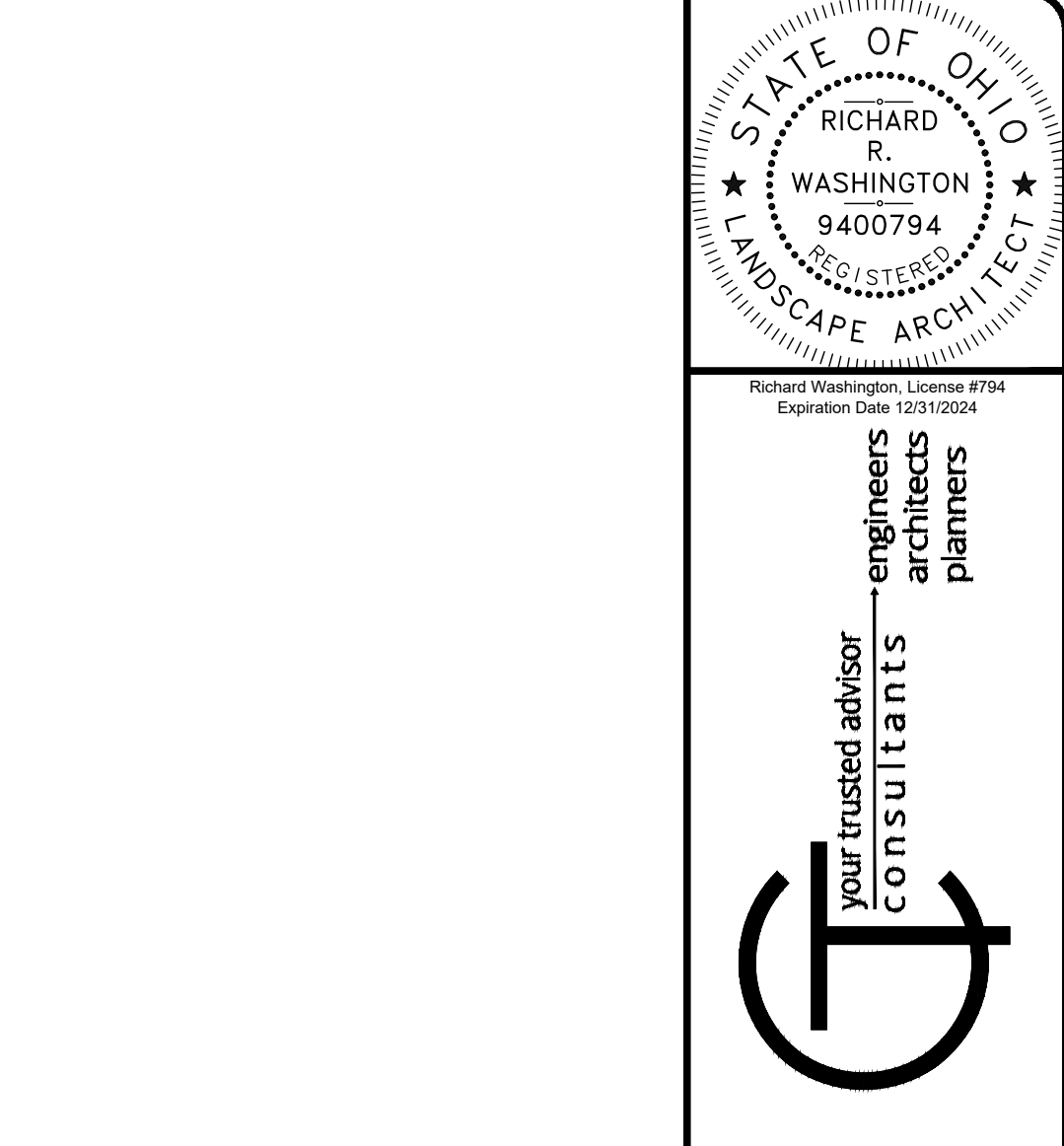
FILTER SOCK DETAIL (ALT. TO SILT FENCE)
 SCALE: NONE

- NOTES:
 1) FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
 2) COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
 3) FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE.
 4) FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
 5) BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
 6) WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
 7) THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE FOLLOWING THE GUIDANCE CHART BELOW:



"DANDY BAG"

- NOTES:
 1) ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED UNLESS THE SEWER IS INACTIVE DUE TO PRIOR WORK.
 2) INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
 3) FRAMING SHALL BE CONSTRUCTED OF CORROSION RESISTANT STEEL (ZINC PLATED OR GALVANIZED).
 4) NOT ALL ITEMS SHOWN MAY APPLY, OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.



STORM WATER POLLUTION PREVENTION PLAN