

Pictured By Holmok, Katherine. Sheet Set No. Layout CO.0 February 24, 2026 03:15:41pm K:\QLE.LAN\180096001 - LPD_Kovach_Launch_Design_2_Design\CAD\PlanSheets\CO0_COVER_SHEET_180096001.dwg
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REFERENCES
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SPECIFICATIONS
 THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION (2023), INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE PLAN BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE CLIENT'S ENGINEER AND/OR REPRESENTATIVES.

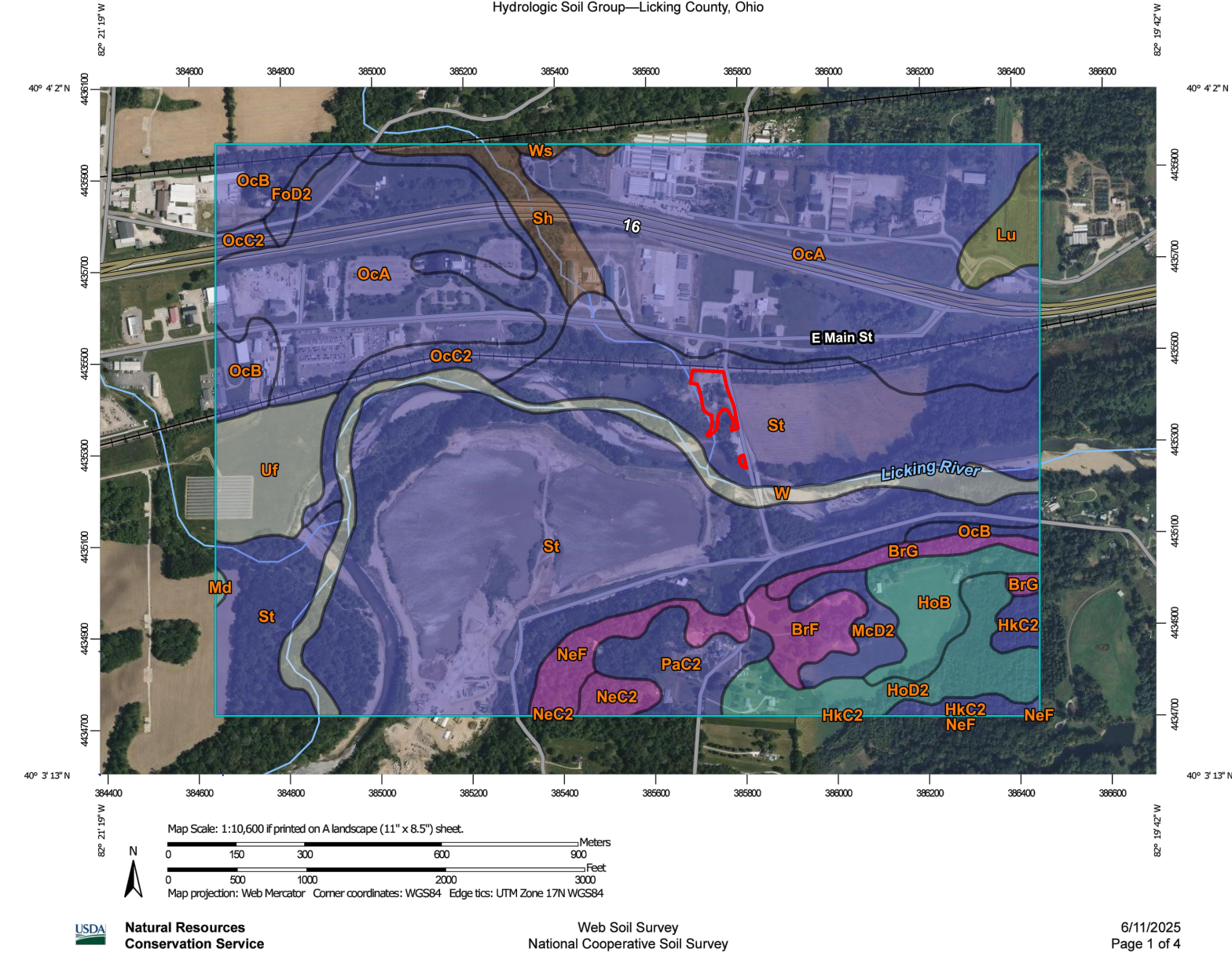
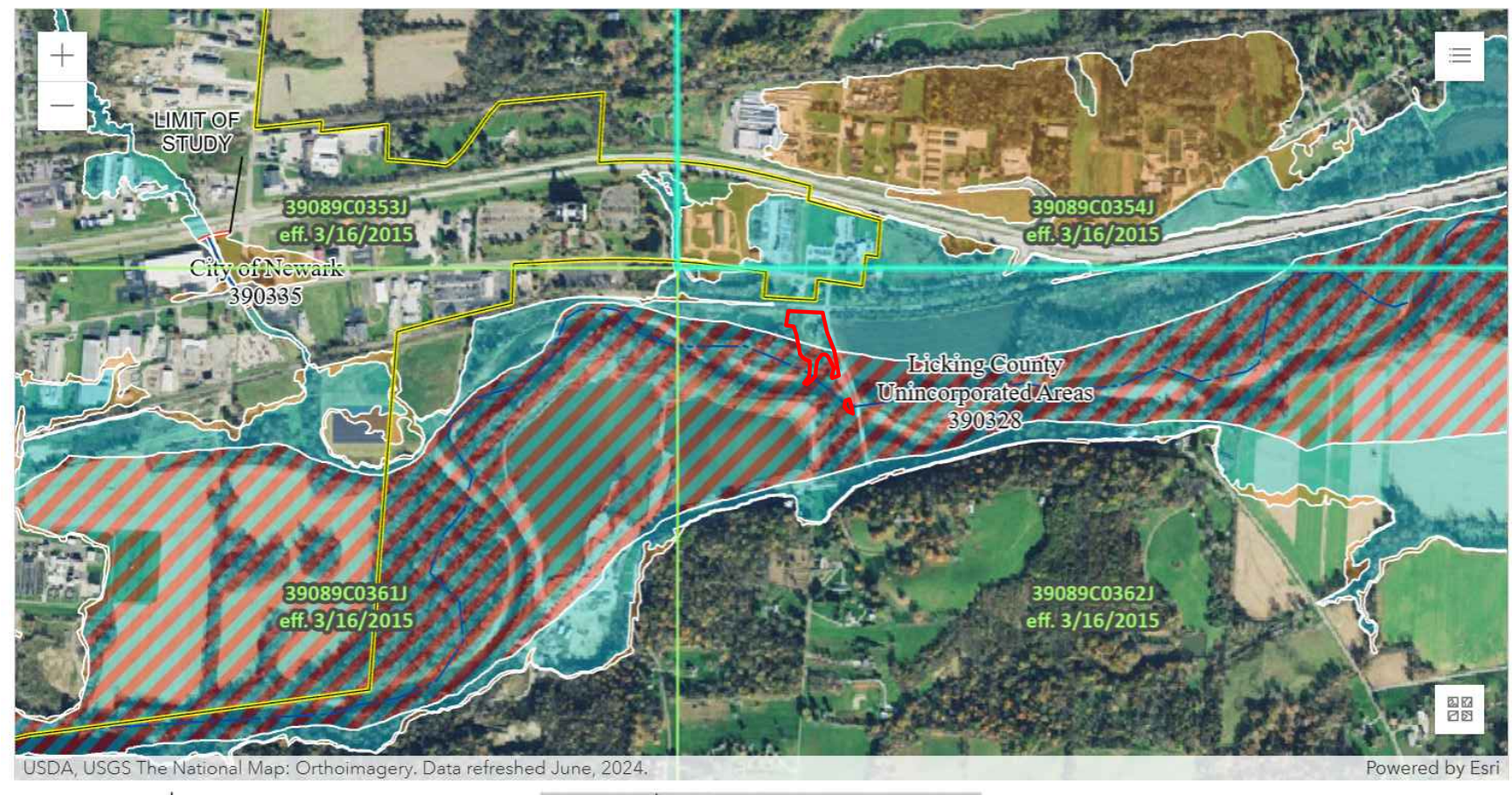
100% DESIGN PLANS

LICKING PARK DISTRICT

PHASE I HERON'S POINT AT STADDENS LANDING

11007 STADDENS BRIDGE RD NEWARK, OH, 43055

FLOODPLAIN
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE MAP (DATED 03/16/2015), THE PROJECT AREA SHOWN HEREON LIES WITHIN ZONE A/AE (AREA INSIDE THE 100-YEAR FLOOD PLAIN AND WITHIN THE REGULATORY FLOODWAY) AS SHOWN ON COMMUNITY PANEL NO. 39089C0352J



LICKING COUNTY

STADDENS LANDING PARK IS APPROXIMATELY 3.02 ACRES ALONG THE LICKING RIVER AT STADDENS BRIDGE ROAD, MADISON TOWNSHIP, LICKING COUNTY, OHIO. PHASE I DESIGN INCLUDES A NEW CONCRETE KAYAK LAUNCH, PARKING LOT, PICNIC SHELTER, RESTROOMS, TRAILS, AND CONNECTION TO THE EXISTING PARK.

UTILITY AND GOVERNING AGENCY CONTACTS

SERVICE / JURISDICTION	COMPANY / DEPT.	ADDRESS	PHONE NUMBER
WASTEWATER	CITY OF NEWARK	34 S 5TH ST NEWARK, OH 43055	(740) 670-7940
NATURAL GAS	THE ENERGY COOP	1500 GRANVILLE RD NEWARK, OH 43055	(740) 344-2102
NATURAL GAS	COLUMBIA GAS OF OHIO	2429 LINDEN AVE ZANESVILLE, OH 43701	(800) 344-4077
CABLE	SPECTRUM CABLE	643 HEBRON RD HEATH, OH 43056	(888) 406-7063
ELECTRICITY	AEP OHIO	777 HOPEWELL DR NEWARK, OH 43056	(800) 672-2231
TELEPHONE/ INTERNET	KINETIC	91 S WILLIAMS ST NEWARK, OH 43055	(740) 915-8727

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C0.0	TITLE SHEET
C1.0-C1.1	GENERAL NOTES
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C2.0	EXISTING CONDITIONS & DEMOLITION PLAN
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C7.2-C7.5	SWPPP NOTES AND DETAILS
C8.0-C8.6	CONSTRUCTION DETAILS
L1.0-L1.1	LANDSCAPE PLAN

EXISTING LEGEND

⊥ SIGN	⊕ ELECTRICAL METER	⊕ POWER POLE
○ BOULDER	⌋ GUY POLE/WIRE	⊕ TREE
— R/W — RIGHT OF WAY	— TS — TOE OF SLOPE	— TB — TOP OF BANK
— < — DITCH	— CHE — OVERHEAD ELECTRICAL	— GAS — UNDERGROUND GAS
— X — FENCE LINE	▨ BUILDING	— LOD — LIMITS OF DISTURBANCE
— SD — STORM DRAIN		
— — — — — PARCEL LINE		
— — — — — CONTOURS		
— ROAD		
— WATER BODY		
— WETLAND		

HYDROLOGIC SOIL GROUP

MAP UNIT SYMBOL	MAP UNIT NAME	RATING	ACRES IN AOI	PERCENT OF AOI
St	Stonolick loam, occasionally flooded	B	2.1	100.0%
Totals for Area of Interest			2.1	100.0%

PROJECT TEAM

ROLE	COMPANY	ADDRESS	PHONE NUMBER	CONTACT
CLIENT/OWNER	LICKING PARK DISTRICT	4309 LANCASTER RD PO BOX 590 GRANVILLE, OH 43023	(614) 753-5538	KYLE LUND, DIRECTOR
LANDSCAPE ARCHITECT	KIMLEY-HORN & ASSOCIATES, INC.	3875 EMBASSY PKWY #280 AKRON, OH 44333	(216) 307-8442	KATHERINE HOLMOK, PLA
CIVIL ENGINEER	KIMLEY-HORN & ASSOCIATES, INC.	3875 EMBASSY PKWY #280 AKRON, OH 44333	(216) 243-7472	DAVE MCALLOPS, PE
LAND SURVEYOR	DLZ, INC.	222 S MAIN ST #203 AKRON, OH 44308	(330) 923-0401	

- PERMITS:
- THIS WORK IS EXPECTED TO BE PERFORMED AS PER PCN USAGE NWP #42.
 - TREE REMOVAL SHALL BE PERFORMED ONLY BETWEEN OCTOBER 1ST AND MARCH 31ST. NO TREES SHALL BE REMOVED OUTSIDE OF THIS TIMEFRAME.
 - CONTRACTOR SHALL PLACE NO FILL BELOW THE ORDINARY HIGH WATER MARK (OHWM) OR THE NORMAL WATER ELEVATION (NWE) AS IDENTIFIED ON THESE PLANS. THIS RESTRICTION INCLUDES THE PLACEMENT OF TEMPORARY FILL.

<p> © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 3875 EMBASSY PKWY, SUITE 280, AKRON, OH 44333 PHONE: 216-506-7775 WWW.KIMLEY-HORN.COM </p>	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">KHA PROJECT</td> <td>180096001</td> </tr> <tr> <td>DATE</td> <td>12/19/2025</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> </tr> <tr> <td>DESIGNED BY</td> <td>KCH</td> </tr> <tr> <td>DRAWN BY</td> <td>AMM</td> </tr> <tr> <td>CHECKED BY</td> <td>KCH</td> </tr> </table>	KHA PROJECT	180096001	DATE	12/19/2025	SCALE	AS SHOWN	DESIGNED BY	KCH	DRAWN BY	AMM	CHECKED BY	KCH
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MAINTENANCE OF TRAFFIC NOTES:

- THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ALL EXISTING ROADWAYS AND ALL DRIVEWAYS FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
 - NO LANES SHALL BE CLOSED DURING TRANSPORTATION OR LOADING/UNLOADING
 - IF FULL IMPLEMENTATION OF THESE MAINTENANCE OF TRAFFIC MEASURES DOES NOT PROVIDE FOR SAFE AND EFFECTIVE MAINTENANCE OF TRAFFIC, ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS NEEDED.
 - FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC AND PEDESTRIANS DURING THE HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND:
 - THE SPECIAL PROVISION OF THE CONTRACT
 - ODOT CMS 2023 SPECIFICATIONS
 - U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION AND ALL SUPPLEMENTS APPLICABLE TO THE WORK DATED TO THE DATE OF ADVERTISEMENT
 - UNLESS OTHERWISE NOTED AND EXCEPT FOR REGULATORY SIGNS, (SERIES R), ALL SIGNS HAVE A NON-REFLECTORIZED BLACK LEGEND AND RETRO-REFLECTIVE ORANGE BACKGROUND.
 - MOUNTING OF ALL SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH ODOT CMS 2023.
 - REMOVE ALL EXISTING SIGNS AS REQUIRED TO ACCOMMODATE CONSTRUCTION OPERATIONS. REINSTALL THESE SIGNS AT THE COMPLETION OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER.
 - THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR TRAFFIC CONTROL, AS PER ODOT CMS 2023 "MAINTAINING TRAFFIC".
 - NOTIFY THE LICKING PARK DISTRICT (10) DAYS IN ADVANCE OF DRIVEWAY RESTRICTIONS. COORDINATE LOCATION OF ANY TRAFFIC CONTROL DEVICES LOCATED ON THE PROPERTY WITH LICKING PARK DISTRICT AND ANY TRAFFIC

- CONTROL DEVICES LOCATED WITHIN THE RIGHT OF WAY OF ANY ROADWAY.
- PROVIDE SUFFICIENT NUMBER OF PROPERLY ATTIRED FLAGGERS (VEST, HARD HAT, ETC.) TO ADEQUATELY CONTROL TRAFFIC FLOW THROUGH THE WORK ZONE AS REQUIRED BY LICKING PARK DISTRICT, WHICH INCLUDES ANY INTERSECTING STREETS IN THE WORK ZONE OR AS DIRECTED. THIS MAY INCLUDE SURROUNDING RESIDENTIAL ROADS. PROVIDE SUFFICIENT ROOM AROUND LIMITS OF DISTURBANCE FENCE AND ADJOINING PROPERTY FOR PEDESTRIAN ACCESS FROM ADJOINING SIDEWALKS - 6 FEET MINIMUM.
 - LIMIT ANY LANE CLOSURE TO THE LENGTH NECESSARY TO SAFELY PERFORM THE REQUIRED WORK. AT NO TIME SHALL COMPLETE STREET CLOSURE BE INSTITUTED.
 - AT THE END OF EACH WORKDAY AND WHENEVER PRACTICAL DURING THE WORKDAY, EQUIPMENT, VEHICLES, AND MATERIALS SHALL BE STORED A MINIMUM OF 10 FEET FROM THE EDGE OF THE NEAREST OPEN TRAVEL LANE OR THEY SHALL BE ADEQUATELY STORED WITHIN THE CONSTRUCTION LIMITS. IF EQUIPMENT, VEHICLES, AND MATERIALS CANNOT BE STORED AS DESCRIBED ABOVE, OR IF THESE ITEMS ARE PLACED FOR USE ON OR NEAR THE ROADWAY WITHIN THE WORK ZONE, BARRICADED DRUMS OR OTHER PROTECTIVE DEVICES SHALL BE PLACED AROUND THE EQUIPMENT, VEHICLES, AND STORAGE SITE TO WARN AND PROTECT THE TRAVELING PUBLIC.
 - DO NOT ALLOW EMPLOYEES TO PARK THEIR PERSONAL VEHICLES ON ANY TRAVEL LANE, SHOULDER, OR SEEDED AREA.
 - IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE MAINTENANCE OF TRAFFIC DEVICES.
 - ALL WORKERS SHALL WEAR THE YELLOW/GREEN ANS 11 VESTS.
 - NOTIFY THE LICKING PARK DISTRICT ENGINEER TEN (10) DAYS IN ADVANCE OF ANY SIGNAGE INTENDED TO BE PLACED.
 - MAINTAIN A MINIMUM OF TWO 10-FOOT TRAVEL LANES ON ALL STREETS AT ALL TIMES, EXCEPT THAT TWO 8-FOOT LANES MAY BE MAINTAINED IF ONGOING CONSTRUCTION REQUIRE IT. A SINGLE 11-FOOT LANE MAY BE MAINTAINED USING FLAGGERS IN ACCORDANCE WITH ODOT CMS 2023.
 - NOTIFY LICKING PARK DISTRICT PRIOR TO CONSTRUCTION.

MOT LEGEND	
*	SITE ENTRANCE/ EXIT

No.	REVISIONS	DATE	BY

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KHA PROJECT	180096001
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DRAWN BY	AMM
CHECKED BY	KGH

MAINTENANCE OF TRAFFIC (MOT) PLAN

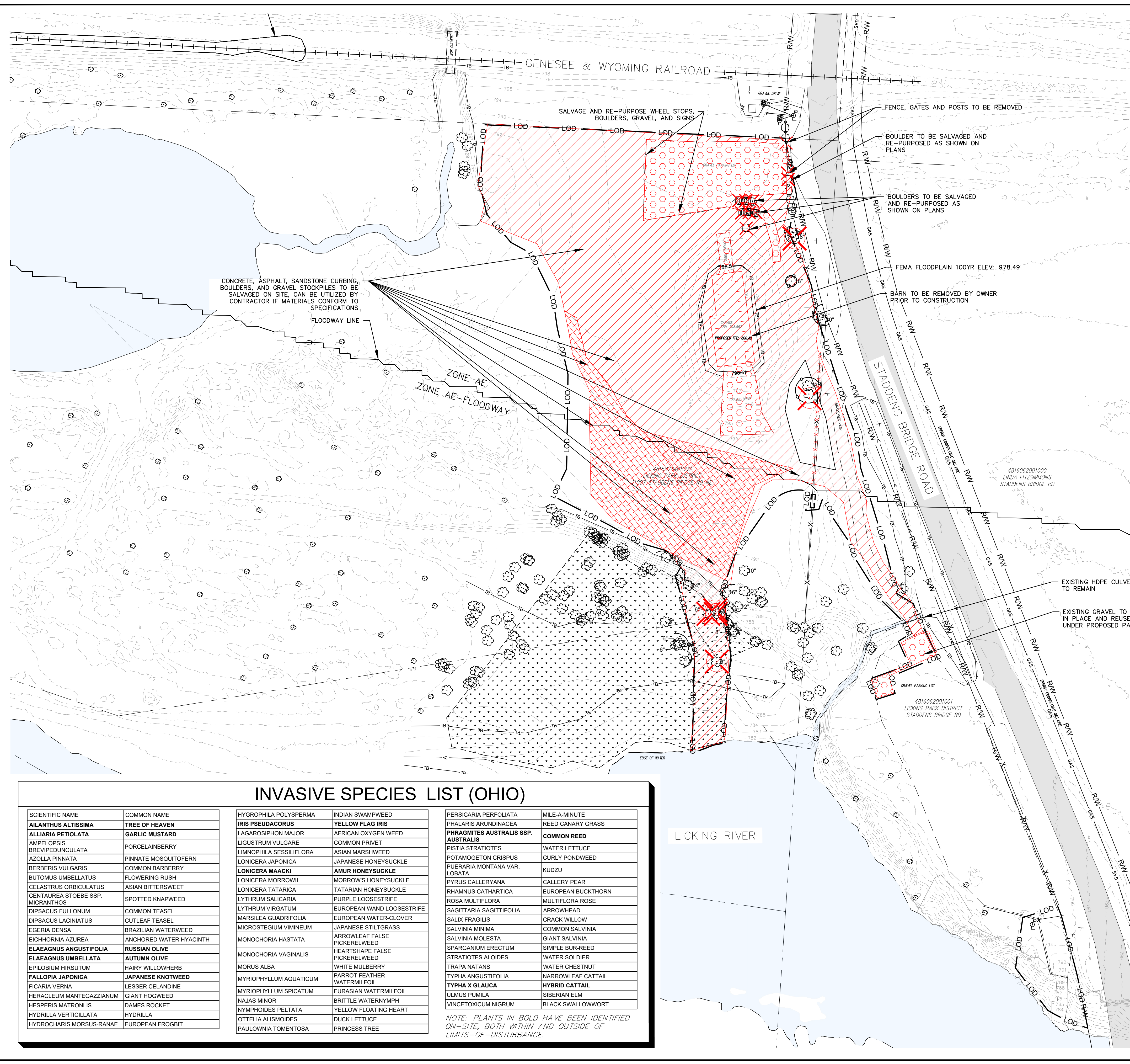
**PHASE I
HERON'S POINT AT
STADDENS
LANDING**

LICKING CO. OHIO

SHEET NUMBER
C1.2

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EXISTING LEGEND

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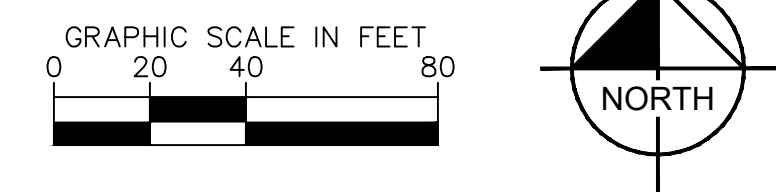
DEMOLITION LEGEND

▨ BUILDING REMOVAL
-X-X-X-X-X-X- FENCE REMOVAL
⊕ ITEM TO BE REMOVED
⊕ TREE TO BE REMOVED
▨ CLEARING AND GRUBBING
▨ GRAVEL AND PAVEMENT SALVAGE/REUSE
▨ EXISTING CONCRETE AND ASPHALT RUBBLE STOCKPILES/ CLEARING AND GRUBBING
○ TREE PROTECTION FENCING

INVASIVE SPECIES LIST (OHIO)

SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME
AILANTHUS ALTISSIMA	TREE OF HEAVEN	HYGROPHILA POLYSPERMA	INDIAN SWAMPWEED	PERSICARIA PERFORATA	MILE-A-MINUTE
ALLIARIA PETIOLATA	GARLIC MUSTARD	IRIS PSEUDACORUS	YELLOW FLAG IRIS	PHALARIS ARUNDINACEA	REED CANARY GRASS
AMPELOPSIS BREVIPEDUNCULATA	PORCELAINBERRY	LAGAROSIPHON MAJOR	AFRICAN OXYGEN WEED	PHRAGMITES AUSTRALIS SSP. AUSTRALIS	COMMON REED
AZOLLA PINNATA	PINNATE MOSQUITO Fern	LIGUSTRUM VULGARE	COMMON PRIVET	PISTIA STRATIOTES	WATER LETTUCE
BERBERIS VULGARIS	COMMON BARBERRY	LIMNOPHILA SESSILIFLORA	ASIAN MARSHWEED	POTAMOGETON CRISPUS	CURLY PONDWEED
BUTOMUS UMBELLATUS	FLOWERING RUSH	LONICERA JAPONICA	JAPANESE HONEYSUCKLE	PUERARIA MONTANA VAR. LOBATA	KUDZU
CELASTRUS ORBICULATUS	ASIAN BITTERSWEET	LONICERA MAACKI	AMUR HONEYSUCKLE	PYRUS CALLERYANA	CALLERY PEAR
CENTAUREA STOEBE SSP. MICRANTHOS	SPOTTED KNAPWEED	LONICERA MORROWII	MORROW'S HONEYSUCKLE	RHAMNUS CATHARTICA	EUROPEAN BUCKTHORN
DIPSACUS FULLONUM	COMMON TEASEL	LONICERA TATARICA	TATARIAN HONEYSUCKLE	ROSA MULTIFLORA	MULTIFLORA ROSE
DIPSACUS LACINIATUS	CUTLEAF TEASEL	LYTHRUM SALICARIA	PURPLE LOOSESTRIFE	SAGITTARIA SAGITTFOLIA	ARROWHEAD
EGERIA DENSA	BRAZILIAN WATERWEED	LYTHRUM VIRGATUM	EUROPEAN WAND LOOSESTRIFE	SALIX FRAGILIS	CRACK WILLOW
EICHHORNIA AZUREA	ANCHORED WATER HYACINTH	MARSILEA GUADRIFOLIA	EUROPEAN WATER-CLOVER	SALVINIA MINIMA	COMMON SALVINIA
ELAEAGNUS ANGUSTIFOLIA	RUSSIAN OLIVE	MICROSTEGIUM VININEUM	JAPANESE STILTGRASS	SALVINIA MOLESTA	GIANT SALVINIA
ELAEAGNUS UMBELLATA	AUTUMN OLIVE	MONOCHORIA HASTATA	ARROWLEAF FALSE PICKERELWEED	SPARGANIUM ERECTUM	SIMPLE BUR-REED
EPILOBIUM HIRSUTUM	HAIRY WILLOWHERB	MONOCHORIA VAGINALIS	HEARTSHAPE FALSE PICKERELWEED	STRATIOTES ALOIDES	WATER SOLDIER
FALLOPIA JAPONICA	JAPANESE KNOTWEED	MORUS ALBA	WHITE MULBERRY	TRAPA NATANS	WATER CHESTNUT
FICARIA VERNA	LESSER CELANDINE	MYRIOPHYLLUM AQUATICUM	PARROT FEATHER WATERMILFOIL	TYPHA ANGUSTIFOLIA	NARROWLEAF CATTAIL
HERACLEUM MANTEGAZIANUM	GIANT HOGWEED	MYRIOPHYLLUM SPICATUM	EURASIAN WATERMILFOIL	TYPHA X GLAUCA	HYBRID CATTAIL
HESPERIS MATRONIS	DAMES ROCKET	NAJAS MINOR	BRITTLE WATERNYMPH	ULMUS PUMILA	SIBERIAN ELM
HYDRILLA VERTICILLATA	HYDRILLA	NYMPHOIDES PELTATA	YELLOW FLOATING HEART	VINCETOXICUM NIGRUM	BLACK SWALLOWWORT
HYDROCHARIS MORSUS-RANAE	EUROPEAN FROGBIT	OTTELIA ALISMOIDES	DUCK LETTUCE		
		PAULOWNIA TOMENTOSA	PRINCESS TREE		

NOTE: PLANTS IN BOLD HAVE BEEN IDENTIFIED ON-SITE, BOTH WITHIN AND OUTSIDE OF LIMITS-OF-DISTURBANCE.



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EXISTING CONDITIONS & DEMOLITION PLAN											
PHASE I HERON'S POINT AT STADDENS LANDING											
SHEET NUMBER C2.0											

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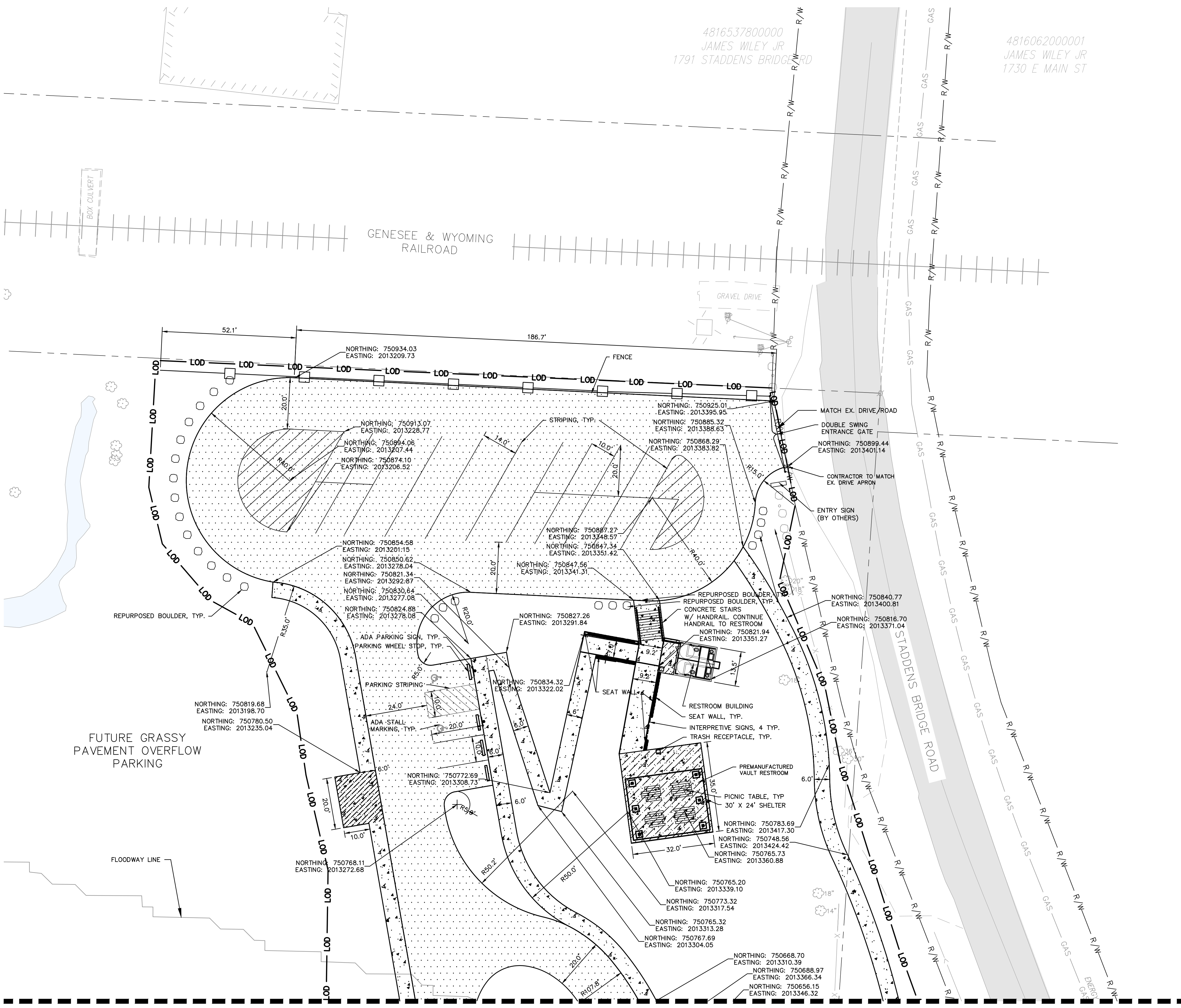
Ohio Utilities Protection Service



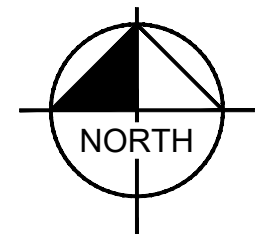
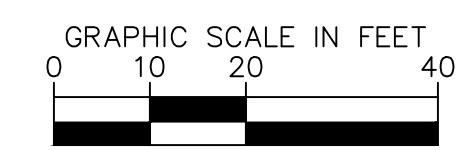
EXISTING LEGEND

PROPOSED LEGEND

	CHIP & SEAL PAVEMENT
	CONCRETE PAVEMENT, STANDARD DUTY
	CONCRETE PAVEMENT, HEAVY DUTY
	CONCRETE RIP RAP
	LIVE STAKES PLANTINGS/BANK STABILIZATION PLANTINGS



MATCHLINE - SEE SHEET C3.1



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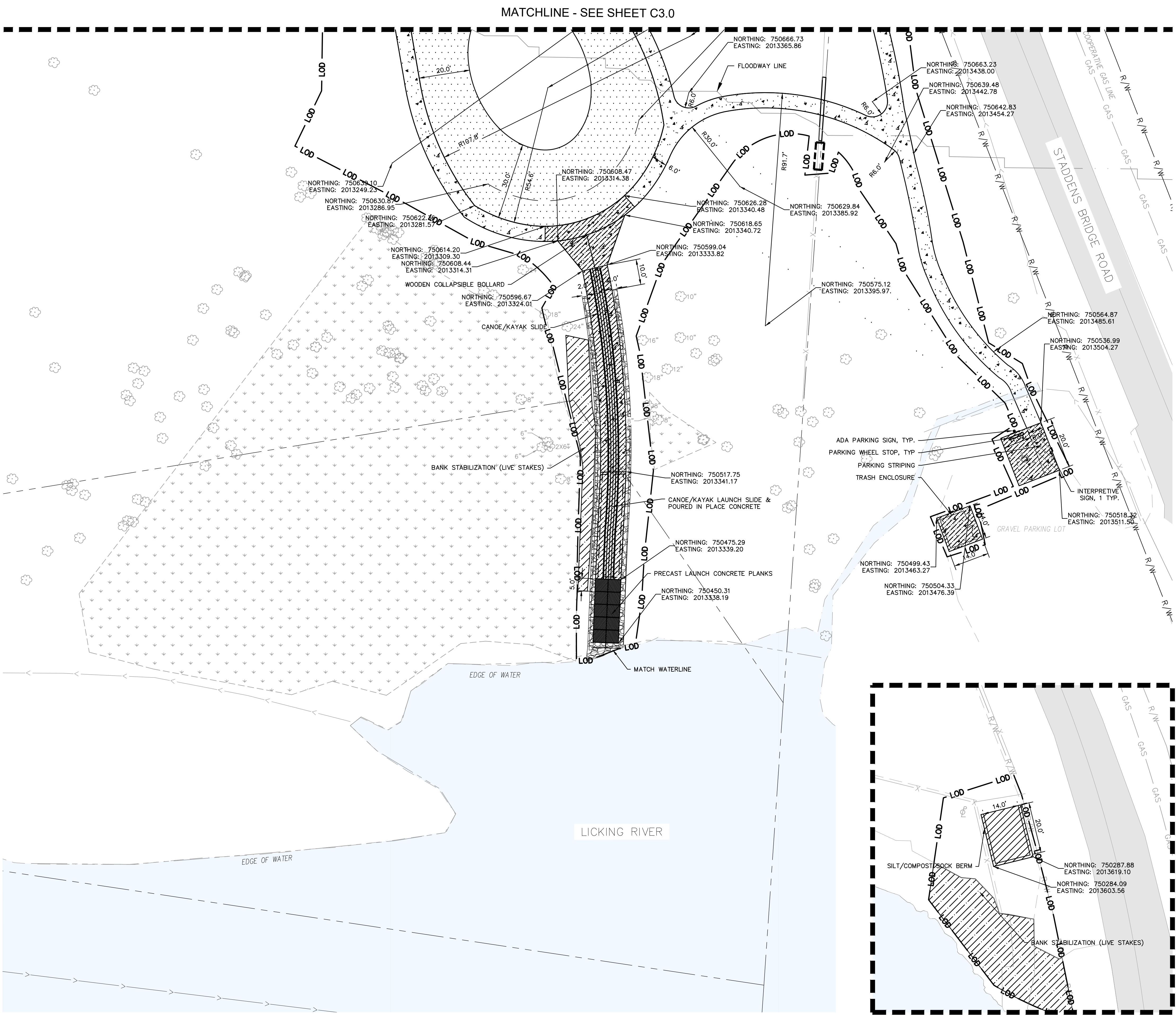
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SITE PLAN

**PHASE I
 HERON'S POINT AT
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LICKING CO OHIO
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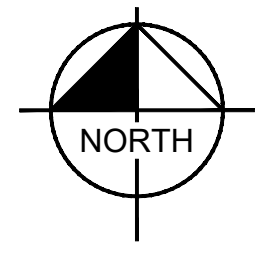
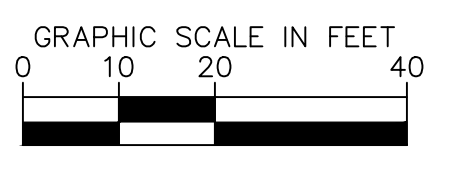
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	LIVE STAKES PLANTINGS (BY OTHERS)
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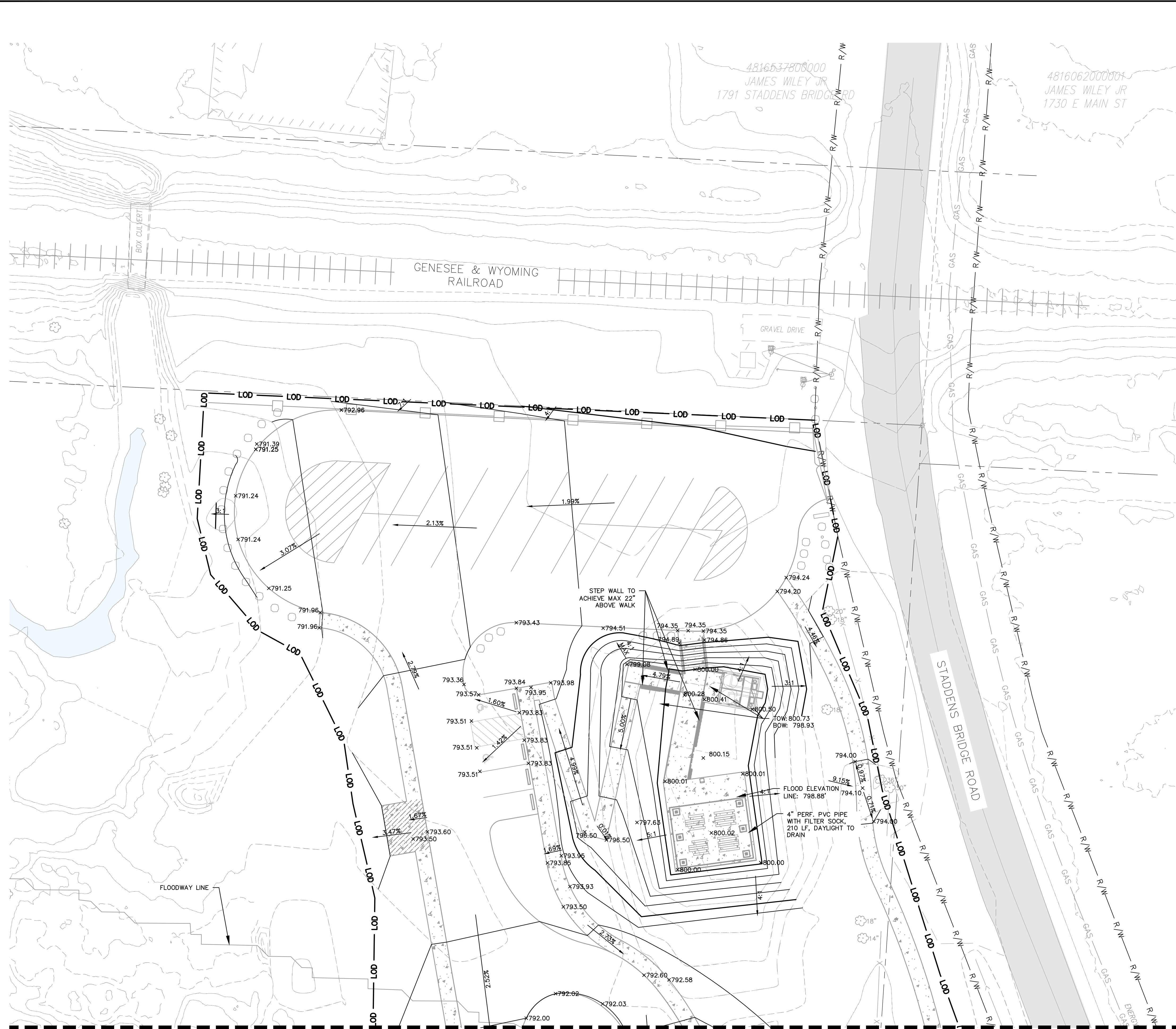
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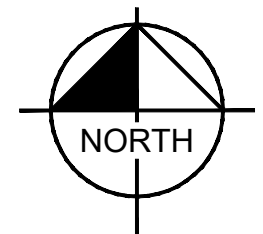
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GRADING LEGEND

---	#	---	EXISTING CONTOURS
---	#	---	PROPOSED CONTOURS



MATCHLINE - SEE SHEET C4.1

KHA PROJECT 180096001		DATE 12/19/2025		SCALE AS SHOWN		DESIGNED BY KCH		DRAWN BY AMM		CHECKED BY KCH	
PHASE I HERON'S POINT AT STADDENS LANDING		OHIO		LICKING CO		GRADING PLAN		KHA PROJECT 180096001		DATE 12/19/2025	
SHEET NUMBER C4.0		LICKING CO		OHIO		GRADING PLAN		KHA PROJECT 180096001		DATE 12/19/2025	
KIMLEY-HORN		© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 3975 EMBASSY PKWY, SUITE 280, AKRON, OH 44333 PHONE: 216-505-7775 WWW.KIMLEY-HORN.COM		REVISIONS		BY		DATE		BY	

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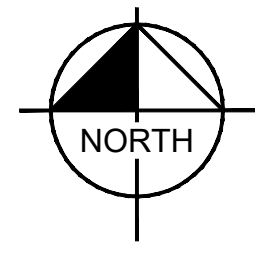
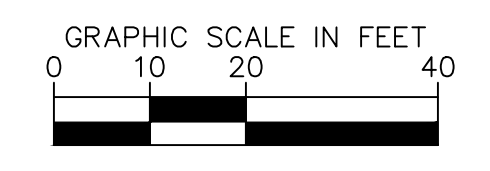
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EXISTING LEGEND		
	SIGN	
	BOULDER	
	POWER POLE	
	RIGHT OF WAY	
	DITCH	
	FENCE LINE	
	STORM DRAIN	
	PARCEL LINE	
	CONTOURS	
	ROAD	
	WATER BODY	
	WETLAND	
	LIMITS OF DISTURBANCE	

GRADING LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	SPOT ELEVATIONS
	SLOPE ARROWS



<h2 style="margin: 0;">GRADING PLAN</h2>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">KHA PROJECT</td> <td>180096001</td> </tr> <tr> <td style="font-size: 8px;">DATE</td> <td>12/19/2025</td> </tr> <tr> <td style="font-size: 8px;">SCALE</td> <td>AS SHOWN</td> </tr> <tr> <td style="font-size: 8px;">DESIGNED BY</td> <td>KCH</td> </tr> <tr> <td style="font-size: 8px;">DRAWN BY</td> <td>AMM</td> </tr> <tr> <td style="font-size: 8px;">CHECKED BY</td> <td>KGH</td> </tr> </table>	KHA PROJECT	180096001	DATE	12/19/2025	SCALE	AS SHOWN	DESIGNED BY	KCH	DRAWN BY	AMM	CHECKED BY	KGH
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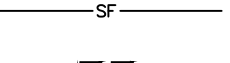



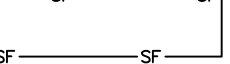

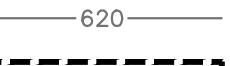
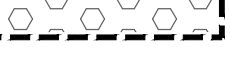

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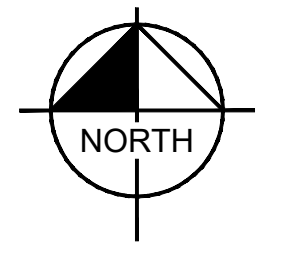
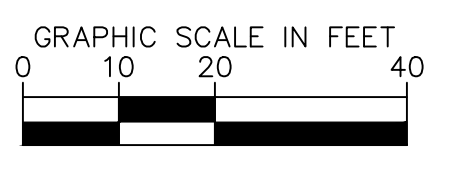
EROSION CONTROL LEGEND

-  TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
-  TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL DETAILS)
-  CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
-  SILT FENCE (SEE EROSION CONTROL DETAILS)
-  CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS)
-  CULVERT OUTLET RIP RAP (SEE EROSION CONTROL DETAILS)
-  FLOATING TURBIDITY CURTAIN/SEDIMENT BOOM (SEE EROSION CONTROL DETAILS)
-  TEMPORARY SOIL STOCKPILE
-  LIMITS OF DISTURBANCE
-  EXISTING CONTOURS
-  PROPOSED CONTOURS
-  STAGING AREA

FLOODPLAIN
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE MAP (DATED 3/16/2015), THE PROJECT AREA SHOWN HEREON LIES WITHIN ZONE AE (AREA WITHIN THE 100-YEAR FLOOD PLAIN) AS SHOWN ON COMMUNITY PANEL NO. 39089C0352L.

SUMMARY OF GRADING VOLUMES		
FILL WITHIN FLOODPLAIN	CUT WITHIN FLOODPLAIN	OVERALL BALANCE
348.91 CY	1717.02 CY	1368.11 CY CUT

AREA SUMMARY	
TOTAL PROJECTS AREA (LOD)	2.10 AC / 91,393 SF
EXISTING IMPERVIOUS AREA	0.31 AC / 13,441 SF
EXISTING PERVIOUS AREA	1.79 AC / 77,952 SF
PROPOSED IMPERVIOUS AREA	0.96 AC / 41,623 SF
PROPOSED PERVIOUS AREA	1.14 AC / 49,770 SF



NO.	REVISIONS	DATE	BY

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180096001	12/19/2025	AS SHOWN	KGH	AMM	KGH

SWPPP PLAN

**PHASE I
 HERON'S POINT AT
 STADDENS
 LANDING**
 OHIO
 LICKING CO

SHEET NUMBER
C7.0

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SITE DESCRIPTION

PROJECT NAME AND LOCATION:
STADDENS LANDING PARK; 11007 STADDENS BRIDGE RD., NEWARK, OH 43055

OWNER NAME, ADDRESS, AND EMAIL:
LICKING PARK DISTRICT; CONTACT: KYLE LUND, DIRECTOR
PHONE: 614-753-5538 EMAIL: DIRECTOR@LICKINGPARKDISTRICT.COM

DESCRIPTION:
THIS PROJECT WILL CONSIST OF A NEW CONCRETE KAYAK LAUNCH, PARKING LOT, PICNIC SHELTER, TRAILS AND CONNECTION TO THE EXISTING PARK.

RUNOFF COEFFICIENT:
PRE-DEVELOPMENT CURVE NUMBER- 85
POST-DEVELOPMENT COMPOSITE CURVE NUMBER- 85

SITE AREA:
THE SITE IS APPROXIMATELY 2.10 ACRES, WITH 1.47 AC BEING DISTURBED BY CONSTRUCTION ACTIVITIES.

SITE DESCRIPTION: (CHECK ONE)
SUBDIVISION
COMMERCIAL x (EXISTING COMMERCIAL PROPERTY)
INDUSTRIAL
P.U.D.
OTHER

SOIL TYPES:
St- STONELICK LOAM, OCCASIONALLY FLOODED (B)

SEQUENCE OF MAJOR ACTIVITIES:
THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, IF NEEDED.
2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL.
3. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
4. INSTALL DEWATERING ITEMS AND/OR PUMP AROUNDS.
5. BEGIN ROUGH GRADING
6. INSTALL STORM STRUCTURES AND OUTLET PIPES.
7. FINAL GRADING
8. INSTALL PAVING AND ABOVE GROUND ITEMS.
9. SOIL STABILIZATION/LANDSCAPING.
10. REMOVAL OF TEMPORARY SWPP MEASURES.

NOTE: THE SEQUENCE OF CONSTRUCTION IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY.

NAME OF RECEIVING WATERS:
THE ENTIRE SITE SHALL DRAIN INTO THE LICKING RIVER.

GENERAL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. THE CONTRACTOR MUST UPDATE THE SWPPP BY NOTING ON THE SITE MAPS IN THE JOB SITE BINDER TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE FOR THE DURATION OF LAND DISTURBING ACTIVITIES. AT A MINIMUM, UPDATES SHALL BE MADE DAILY TO TRACK CONSTRUCTION PROGRESS DESCRIBED IN THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTING THE LOCATION OF THE JOB SITE TRAILER, TEMPORARY PARKING & LAYDOWN AREAS, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL & MATERIAL STORAGE, SOLID WASTE CONTAINERS, AND OTHER CONSTRUCTION RELATED FACILITIES THAT MAY IMPACT STORMWATER RUNOFF.
3. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006) AND UPDATES.
5. OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.
6. REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED BY THE CONTRACTOR FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES.
7. THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT MOVEMENT INTO AREAS DESIGNATED AS WETLANDS OR WATERWAYS.
8. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S MAY BE REQUIRED AS IDENTIFIED BY THE SWPP INSPECTOR.

SWPPP INSPECTOR: LICKING COUNTY SOIL AND WATER
771 E MAIN ST #100, NEWARK, OH, 43055
740-670-5330

CONTROLS

EROSION AND SEDIMENT CONTROLS:

STABILIZATION PRACTICES

TEMPORARY STABILIZATION - TEMPORARY VEGETATION OR MULCH SHALL BE EMPLOYED WITHIN 48 HOURS OF INITIAL DISTURBANCE. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL BUT NO LATER THAN 48 HOURS AFTER FINAL GRADING. TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED. TOP SOIL STOCKPILES AND DISTURBED PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS, WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB-BASE UNTIL PAVEMENT CAN BE APPLIED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OR WITHIN 2 DAYS FOR AREAS WITHIN 50 FEET OF A STREAM. REFER TO LANDSCAPE PLAN FOR DETAILS.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			●	●	●	*	*	*	●	●		
DORMANT SEEDING	●	●	●	●	●	●	●	●	●	●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			**	**	**	**	**	**	**	**	**	**
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* - IRRIGATION NEEDED
** - IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

STORMWATER MANAGEMENT

STORMWATER DRAINAGE WILL BE PROVIDED BY SWALES AND SHEET FLOW OUTLETING TO THE LICKING RIVER. SEE DRAINAGE REPORT FOR SIZING, VOLUMES AND CALCULATIONS.

	REQUIRED	PROPOSED
SEDIMENT STORAGE ZONE	N/A	
DEWATERING ZONE	N/A	

	REQUIRED	PROPOSED
WATER QUALITY VOLUME	N/A	

OTHER CONTROLS

WASTE DISPOSAL:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL, CITY AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED OFF-SITE. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY ORC 3714

HAZARDOUS WASTE:
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

OFF-SITE VEHICLE TRACKING:
OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.

DEWATERING ACTIVITIES:
THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

PROCESS WASTEWATER:
ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

TIMING OF CONTROLS/MEASURES
AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES:
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE

FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS - ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS - FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS - ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

SPILL CONTROL PRACTICES
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING PRACTICES, AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

4. STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
5. BARRIERS - EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
6. CALCIUM CHLORIDE - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
7. OPERATION AND MAINTENANCE - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
8. STREET CLEANING - PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET - TYPE ENDLOADER OR SCRAPER.
9. PRIVATE PROPERTY CLEANING - CONTRACTOR SHALL PROVIDE ACTIVE DUST CONTROL ACTIVITIES TO MINIMIZE DUST AND DEBRIS ONTO ADJOINING PRIVATE HOMES. CONTRACTOR SHALL PERFORM ADDITIONAL ABOVE DUST CONTROL APPLICATIONS ON DAYS WHEN RAIN HAS NOT OCCURRED IN MORE THAN 32 HOURS OR AS DIRECTED IN FIELD BY OWNER.

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TEMPORARY SEEDING

DESCRIPTION

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES WHICH ARE QUICK GROWING ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1,000 ² FT.	LB. PER AC.
MARCH 1 TO AUGUST 15	OATS	3	128 LB.(4 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	ANNUAL RYEGRASS	1.25	55 LB.
	PERENNIAL RYEGRASS	3.25	142 LB.
	CREeping RED FESCUE	0.4	17 LB.
	KENTUCKY BLUEGRASS	0.4	17 LB.
AUGUST 16 TO NOVEMBER 1	OATS	3	128 LB.(3 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	RYE	3	112 LB.(2 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	120 LB.(2 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYE	1	40 LB.
TALL FESCUE	1	40 LB.	
ANNUAL RYEGRASS	1	40 LB.	
NOV. 1 TO SPRING SEEDING	ANNUAL RYEGRASS	1.25	40 LB.
	PERENNIAL RYEGRASS	3.25	40 LB.
	CREeping RED FESCUE	0.4	40 LB.
	KENTUCKY BLUEGRASS	0.4	40 LB.
	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

STRUCTURAL EROSION AND SEDIMENT-CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.

THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

SOIL AMENDMENTS--TEMPORARY VEGETATION SEEDING RATE SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATE FOR LIME AND FERTILIZER SHALL BE USED.

SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE, AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

MATERIALS:
 STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 LB. PER 1,000 SQUARE FEET (TWO TO THREE BALES).
 HYDROSEEDERS--IF WOOD-CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. PER ACRE OR 46 LB. PER 1,000 SQUARE FEET.
 OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

ANCHORING METHODS:
 MECHANICAL--A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES.

MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUNOFF AND ON CRITICAL SLOPES.

SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

WOOD-CELLULOSE FIBER--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT

A NET DRY WEIGHT OF 750 LB. PER ACRE. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. PER 100 GALLONS.

CONSTRUCTION ENTRANCE

DESCRIPTION

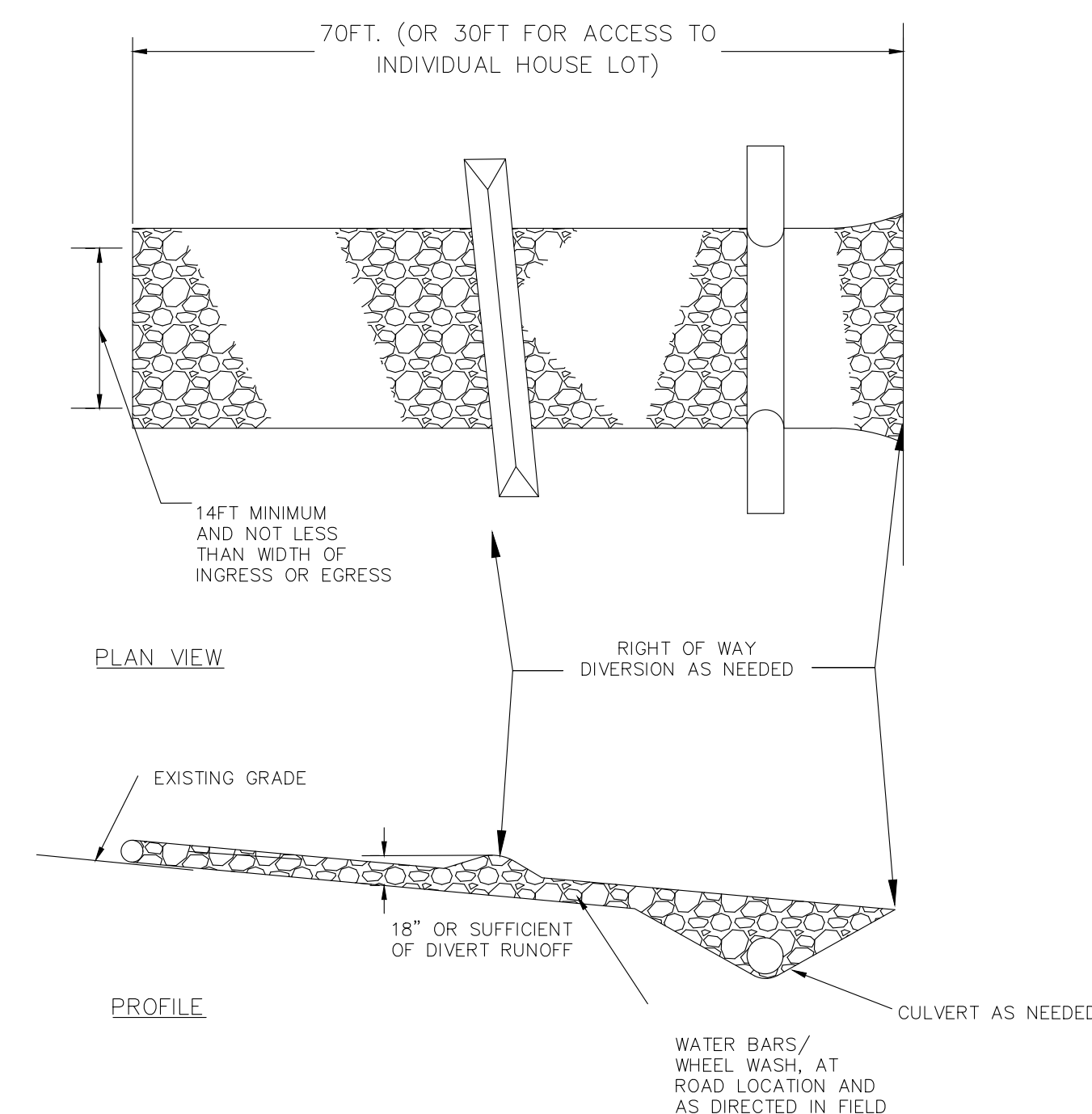
A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF STONE UNDERLAIN WITH GEOTEXTILE AND IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC. CONTRACTOR SHALL ALSO INSTALL A WHEEL WASH AT ALL LOCATIONS EXITING THE SITE ENTERING ROADWAYS. LOCATED AT POINTS OF INGRESS/EGRESS, THE PRACTICE IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC.

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA, PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITTIVITY	1X10-3 CM/SEC.

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR/WHEEL WASH - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED, AND AS DIRECTED BY OWNER, TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED ROADWAY SURFACES.
9. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



INLET PROTECTION

DESCRIPTION

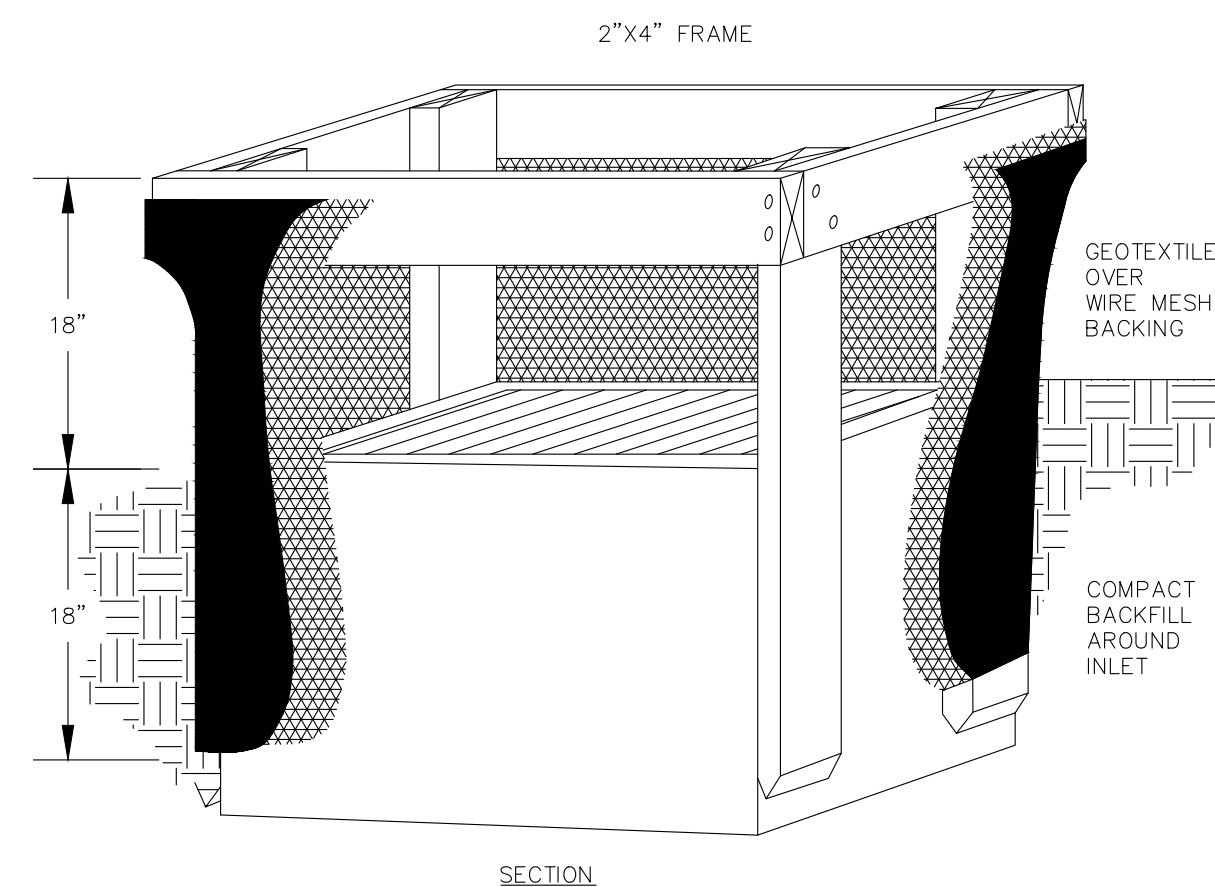
STORM DRAIN INLET PROTECTION DEVICES REMOVE SEDIMENT FROM STORM WATER

BEFORE IT ENTERS STORM SEWERS AND DOWNSTREAM AREAS. INLET PROTECTION DEVICES ARE SEDIMENT BARRIERS THAT MAY BE CONSTRUCTED OF WASHED GRAVEL OR CRUSHED STONE, GEOTEXTILE FABRICS AND OTHER MATERIALS THAT ARE SUPPORTED AROUND OR ACROSS STORM DRAIN INLETS.

INLET PROTECTION IS INSTALLED TO CAPTURE SOME SEDIMENT AND REDUCE THE MAINTENANCE OF STORM SEWERS AND OTHER UNDERGROUND PIPING SYSTEMS. PRIOR TO THE SITE BEING STABILIZED. DUE TO THEIR POORER EFFECTIVENESS, INLET PROTECTION IS CONSIDERED A SECONDARY SEDIMENT CONTROL TO BE USED IN CONJUNCTION WITH OTHER MORE EFFECTIVE CONTROLS.

SPECIFICATIONS FOR GEOTEXTILE INLET PROTECTION

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 INCHES BY 4 INCHES CONSTRUCTION GRADE LUMBER. THE 2 INCHES BY 4 INCHES POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 INCHES BY 4 INCHES FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS OF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.



SILT FENCE

DESCRIPTION

A SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE, TOPOGRAPHY AND SOMETIMES VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFF'S ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OF CONCENTRATED FLOW INTO UNIFORM SHEET FLOW. SILT FENCE IS USED TO PREVENT SEDIMENT-LADEN SHEET RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SEWER SYSTEMS.

SPECIFICATIONS FOR SILT FENCE

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH AA MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)
10. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY 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 DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

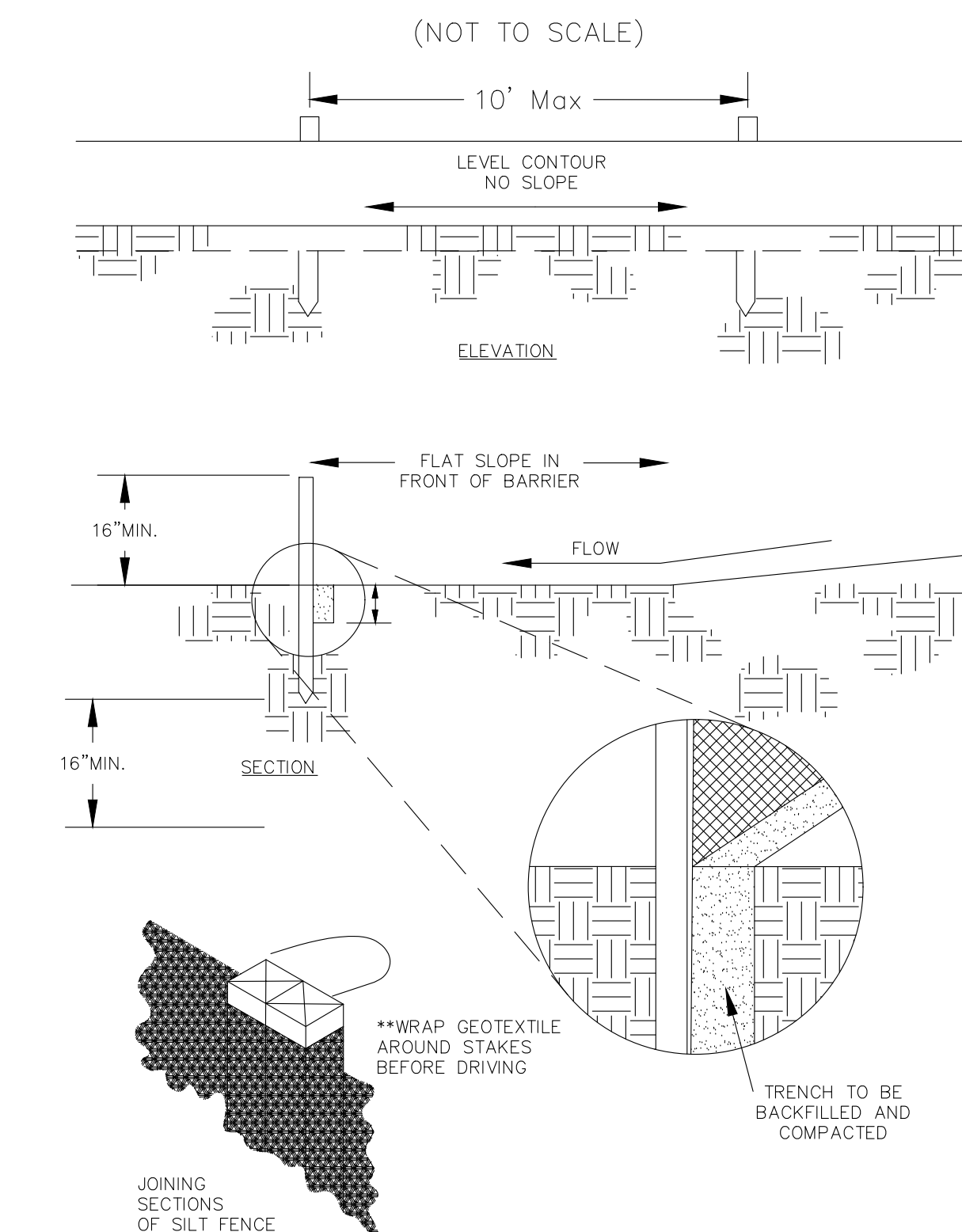
SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS:

1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2-BY-2 INCH NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.

SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	< OR = 0.84 MM	ASTM D4751
MINIMUM PERMITTIVITY	1X10-2 SEC. -1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355



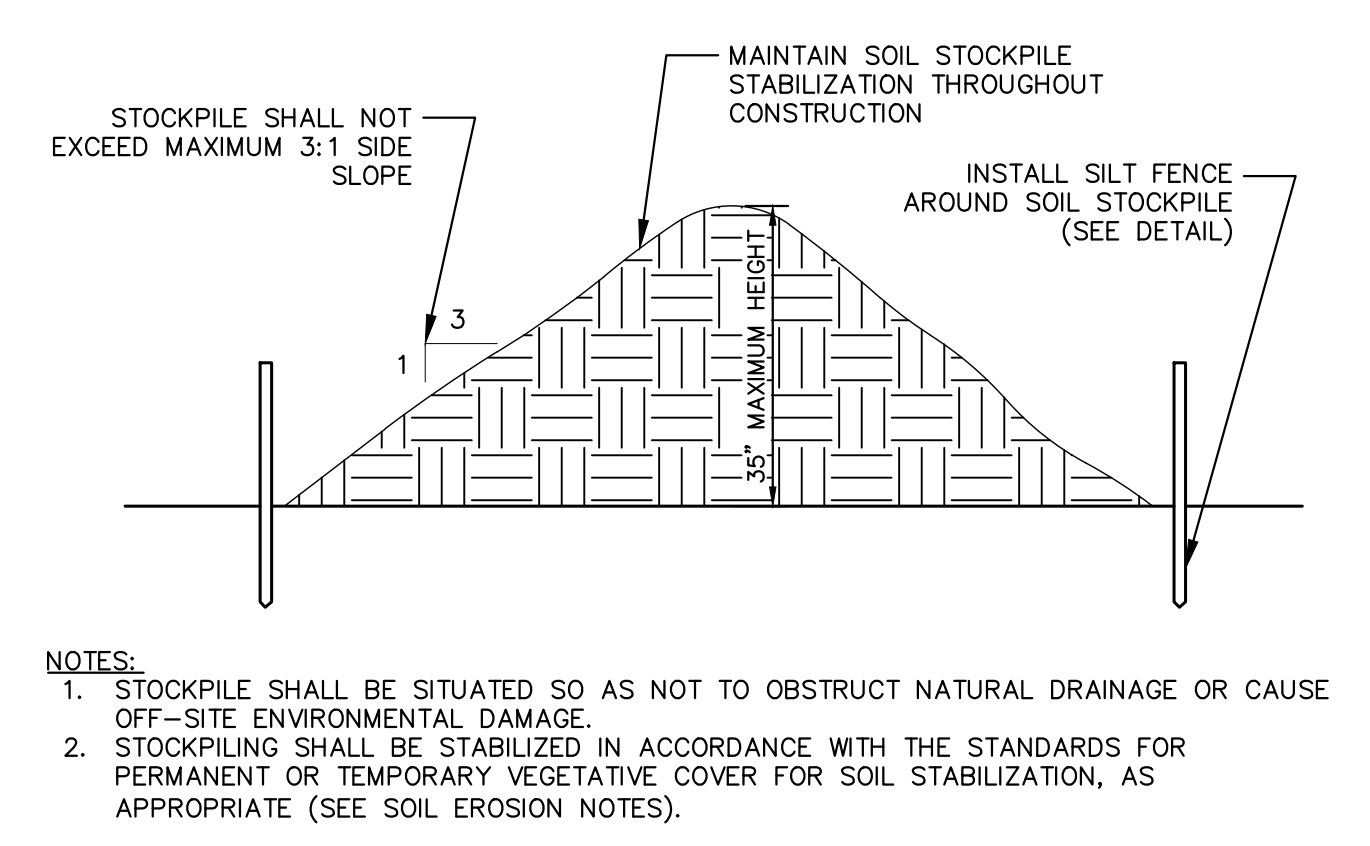
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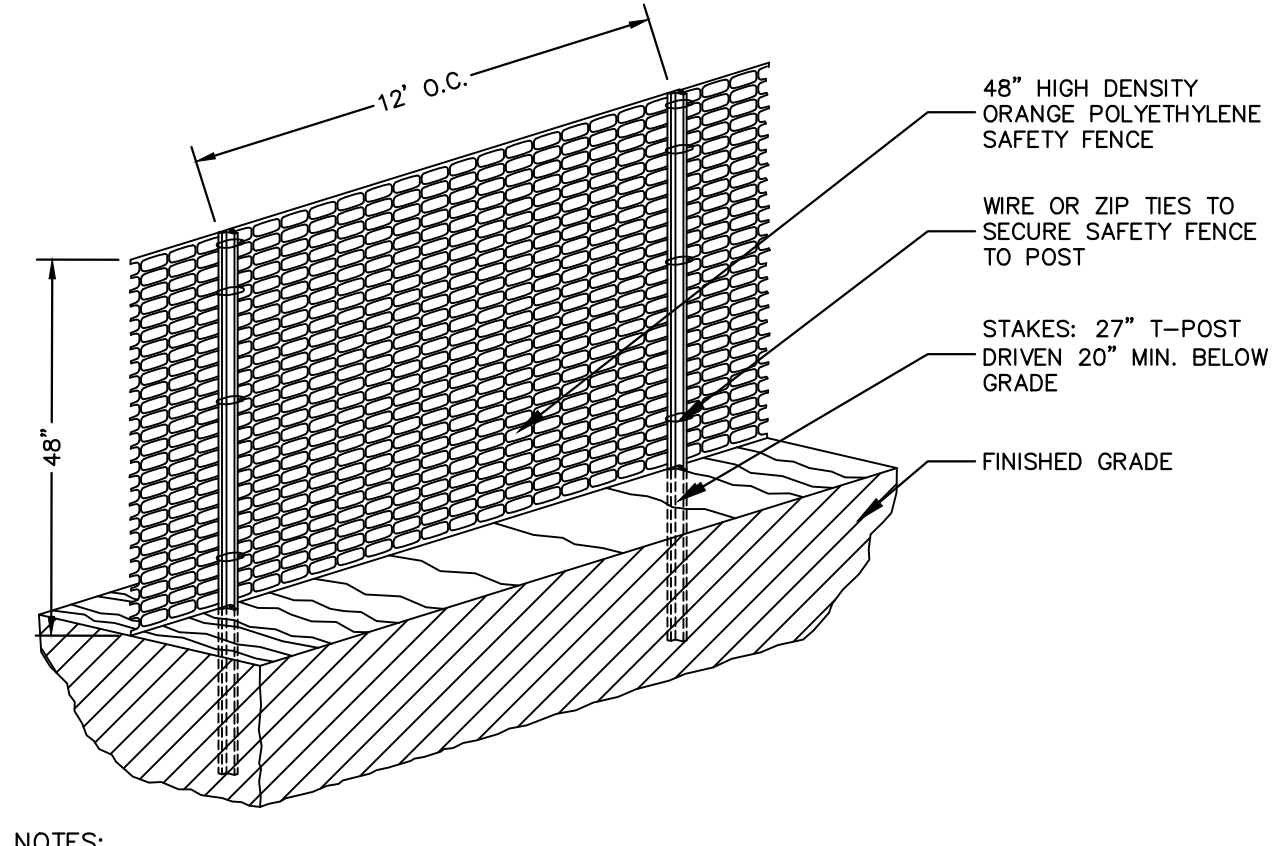
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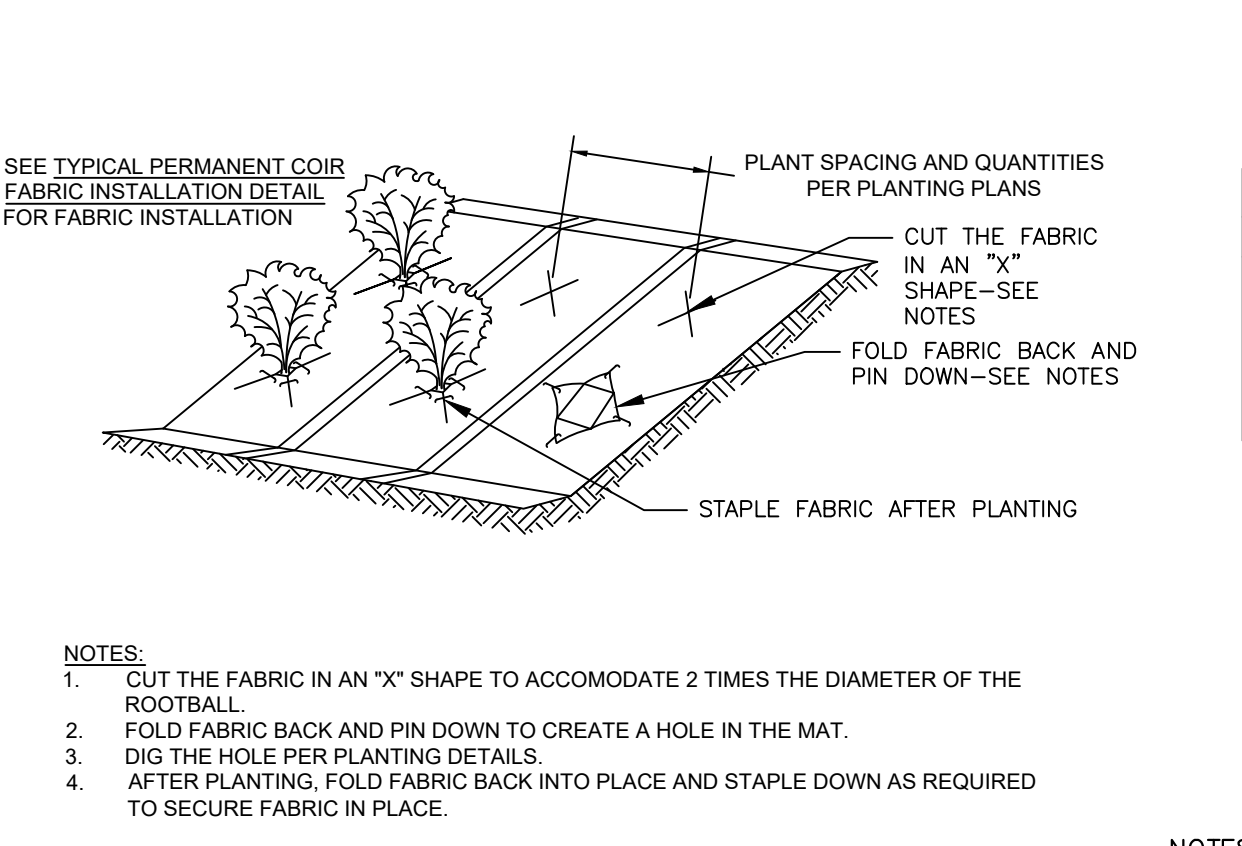
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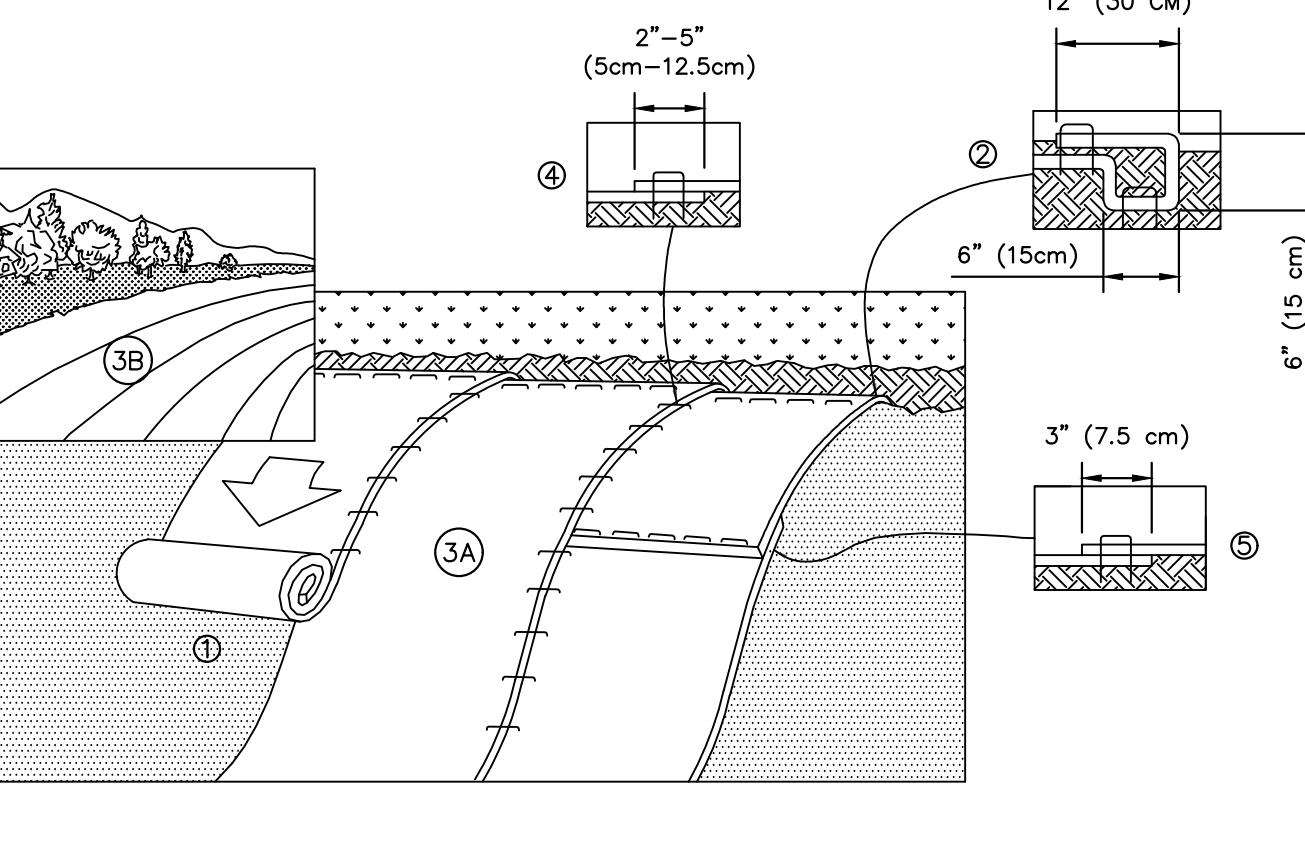
1 SOIL STOCKPILE
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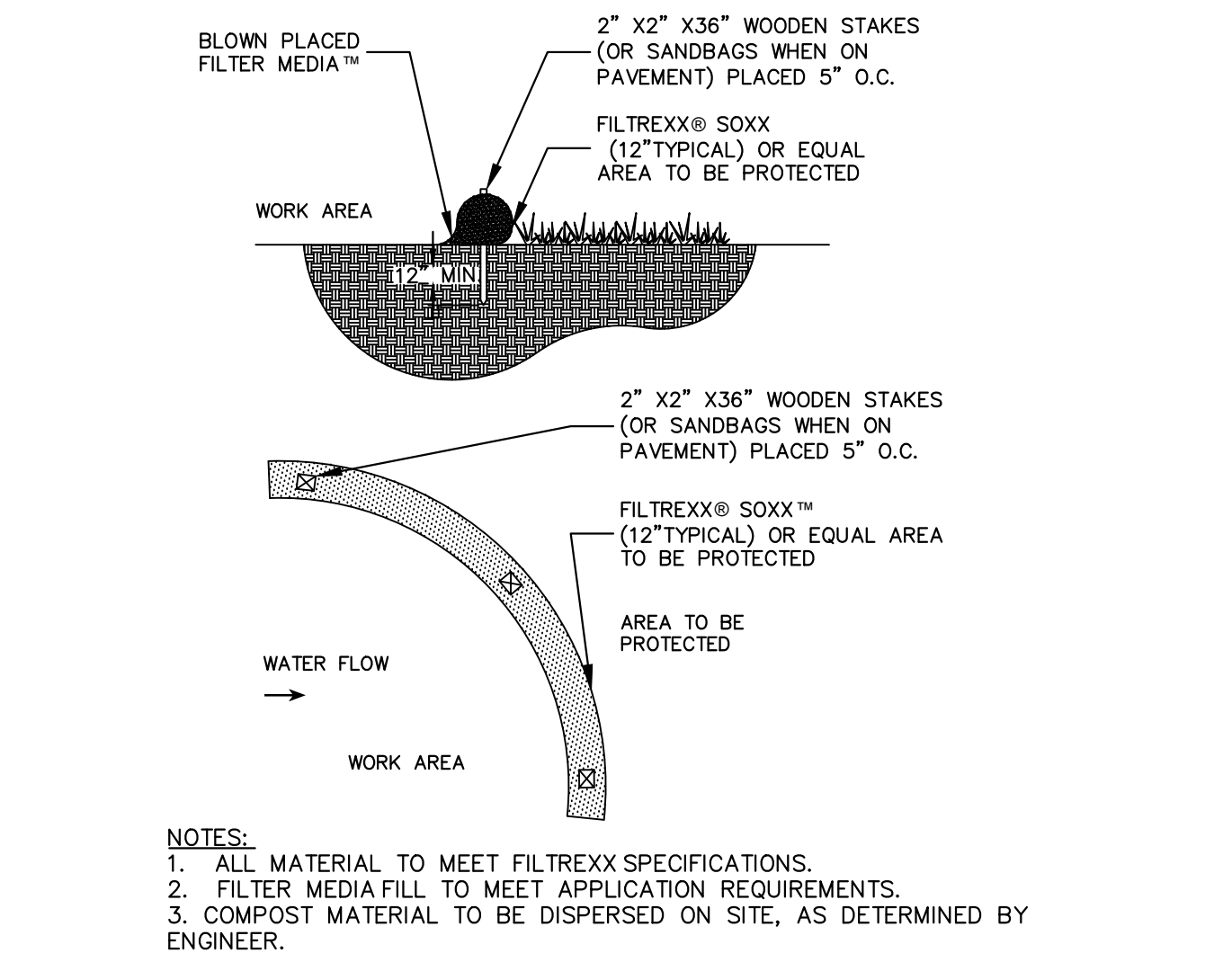
2 ORANGE CONSTRUCTION FENCE/PROTECTION FENCING
SCALE: NOT TO SCALE



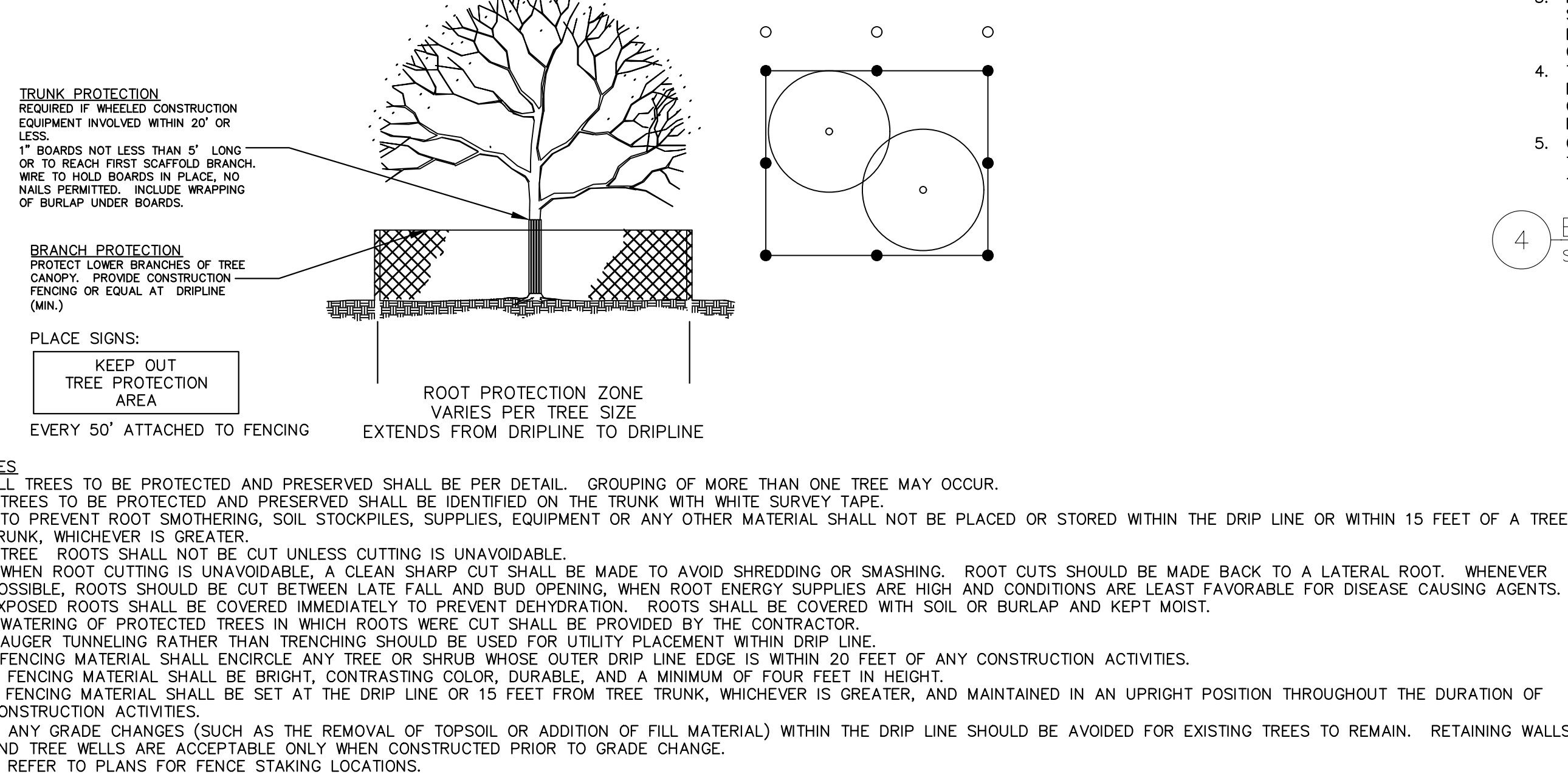
3 PLANTING IN COIR FABRIC DETAIL
SCALE: NOT TO SCALE



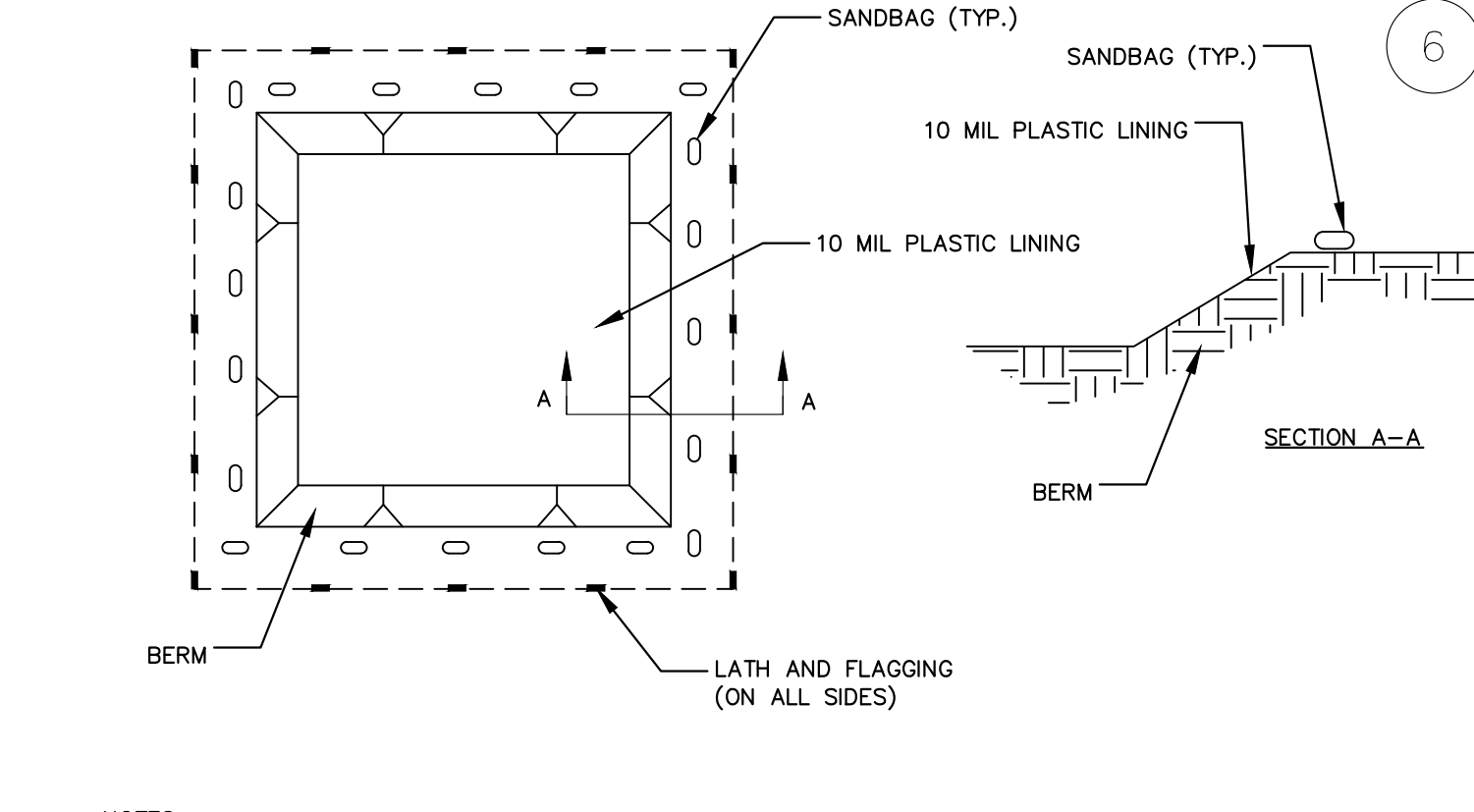
4 EROSION CONTROL MATTING DETAIL
SCALE: NOT TO SCALE



5 FILTER SOCK SEDIMENT CONTROL
SCALE: NOT TO SCALE



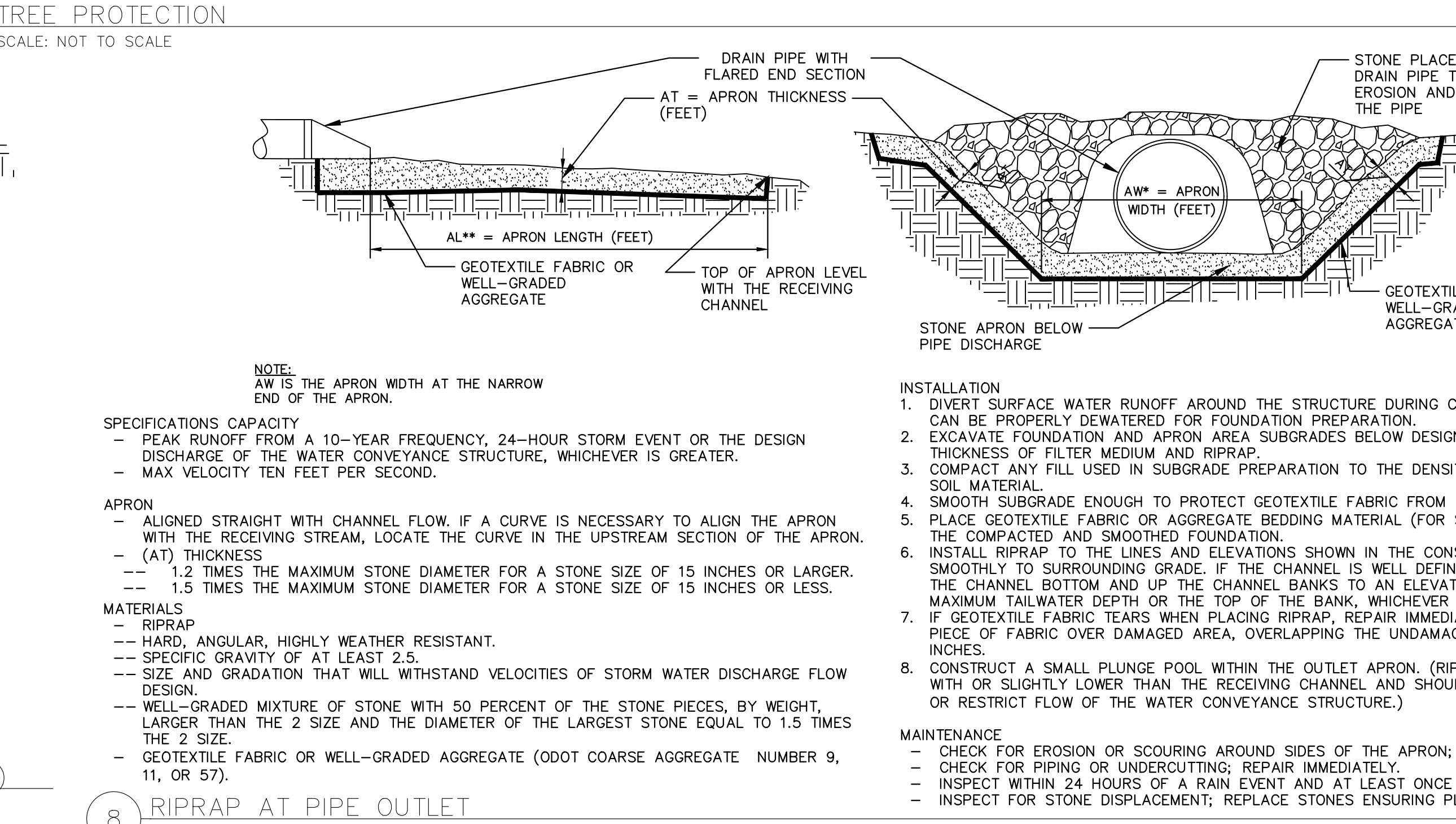
6 TREE PROTECTION
SCALE: NOT TO SCALE



NOTES:

- TEMPORARY CONCRETE WASHOUT FACILITIES (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET. THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- LATH AND FLAGGING SHALL BE COMMERCIAL TYPE.
- PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- ACTUAL LAYOUT AND SIZE TO BE LAID OUT IN FIELD BY CONTRACTOR FOR OWNER APPROVAL.
- AS WASHOUT BECOMES FULL, IT SHALL BE REMOVED AND REPLACED.
- A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY WASHOUT FACILITY. SIGN SHALL BE PLYWOOD 48"x24" PAINTED WHITE WITH 6" BLACK LETTERS DISPLAYING "CONCRETE WASHOUT". POST WOOD SIGN WITH WOOD POSTS, SECURELY INTO GROUND.
- AFTER CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE WASHOUT AND SHALL RESTORE AREA AS SHOWN ON PLANS OR BACK TO ORIGINAL CONDITIONS.

7 TEMPORARY CONCRETE WASHOUT FACILITY (BELOW GRADE)
SCALE: NOT TO SCALE



8 RIPRAP AT PIPE OUTLET
SCALE: NOT TO SCALE

TABLE 1. SIZING FOR FLOW DISSIPATORS AT CULVERT PIPE OUTLETS

*APRON WIDTH AT THE NARROW END OF APRON (PIPE OR CHANNEL OUTLET).
**SELECT LENGTH TAKING INTO CONSIDERATION THE LOW FLOW (NO PRESSURE HEAD) OR HIGH FLOW (PRESSURE HEAD) CONDITIONS OF THE CULVERT PIPE.

PIPE SIZE	(AT) MEDIAN RIP RAP DIAMETER	(AW) APRON WIDTH*	(AL) APRON LENGTH**
6 IN.	4 IN.	1.5 TO 2 FT.	3 TO 4 FT.
8 IN.	6 IN.	2 TO 3 FT.	5 TO 7 FT.
12 IN.	6 IN.	3 TO 4 FT.	6 TO 10 FT.
15 IN.	6 IN.	4 TO 6 FT.	6 TO 12 FT.
18 IN.	6 IN.	4 TO 6 FT.	8 TO 16 FT.
21 IN.	6 IN.	6 TO 8 FT.	8 TO 16 FT.
24 IN.	9 IN.	6 TO 8 FT.	12 TO 18 FT.
30 IN.	9 IN.	8 TO 10 FT.	14 TO 20 FT.
36 IN.	9 IN.	10 TO 12 FT.	16 TO 22 FT.
42 IN.	9 IN.	12 TO 14 FT.	18 TO 24 FT.
48 IN.	12 IN.	12 TO 14 FT.	18 TO 26 FT.
54 IN.	12 IN.	14 TO 16 FT.	22 TO 28 FT.
60 IN.	12 IN.	15 TO 17 FT.	22 TO 32 FT.
66 IN.	12 IN.	17 TO 19 FT.	24 TO 36 FT.
72 IN.	12 IN.	18 TO 20 FT.	26 TO 40 FT.
84 IN.	18 IN.	21 TO 23 FT.	30 TO 44 FT.

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KHA PROJECT
180096001

DATE
12/19/2025

SCALE
AS SHOWN

DESIGNED BY
KCH

DRAWN BY
AMM

CHECKED BY
KCH

PHASE I
HERON'S POINT AT
STADDENS
LANDING

OHIO
LICKING CO

SWPPP NOTES
AND DETAILS

SHEET NUMBER
C7.4

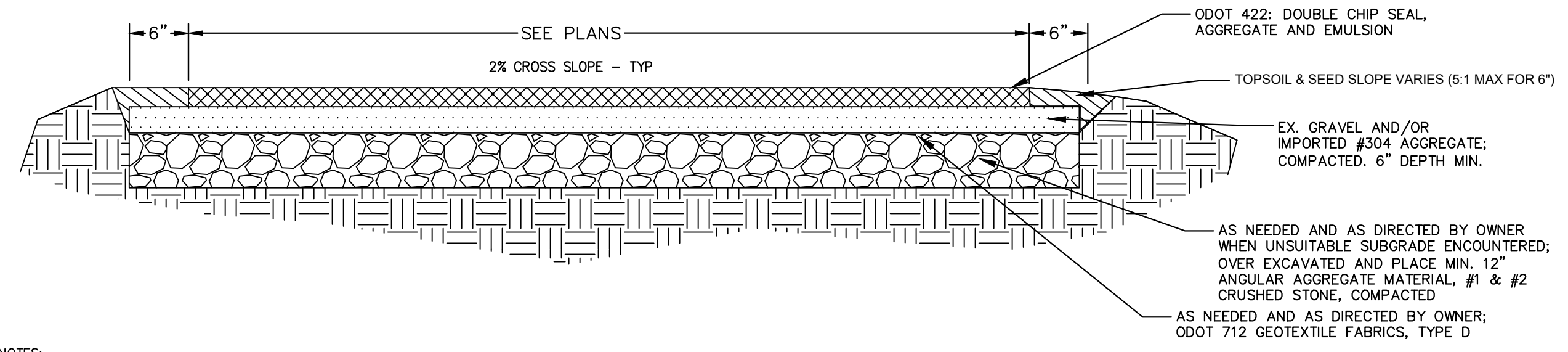
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REVISIONS

DATE

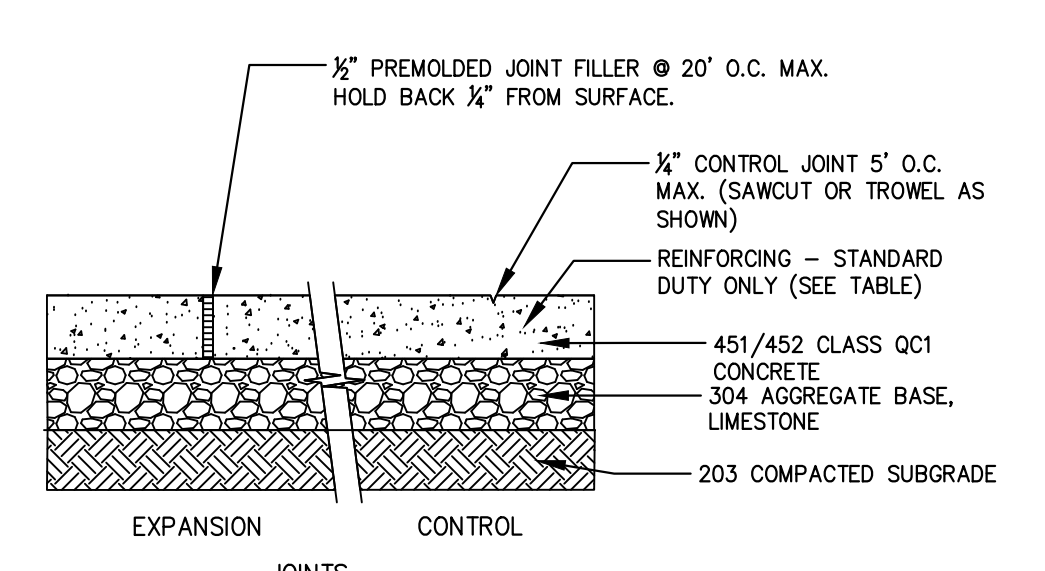
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- NOTES:**
- CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER & ENGINEER IF SOFT SOILS ARE ENCOUNTERED. IF ENCOUNTERED, OVER EXCAVATE SOILS, PLACE AND COMPACT A MIN. OF 12" ANGULAR AGGREGATE, 1&2 AS PER ODOT 204
 - CONTRACTOR SHALL ADD GRAVEL AND COMPACT EXISTING GRAVEL AS NEEDED TO CREATE LEVEL BASE.
 - CONTRACTOR SHALL GRADE PAVEMENT TO ENSURE POSITIVE SLOPE. NO PORTION OF PAVEMENT SHALL IMPEDE THE FLOW OF SURFACE WATER.

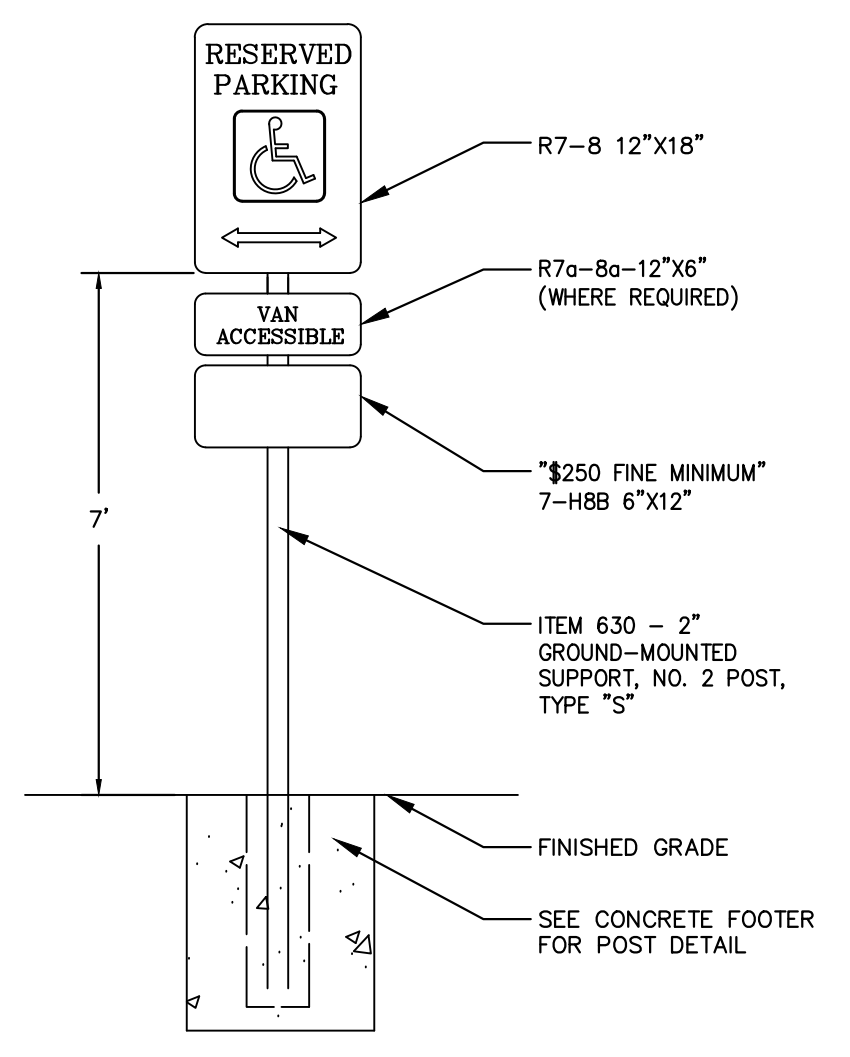
1 CHIP & SEAL PAVEMENT
SCALE: NOT TO SCALE



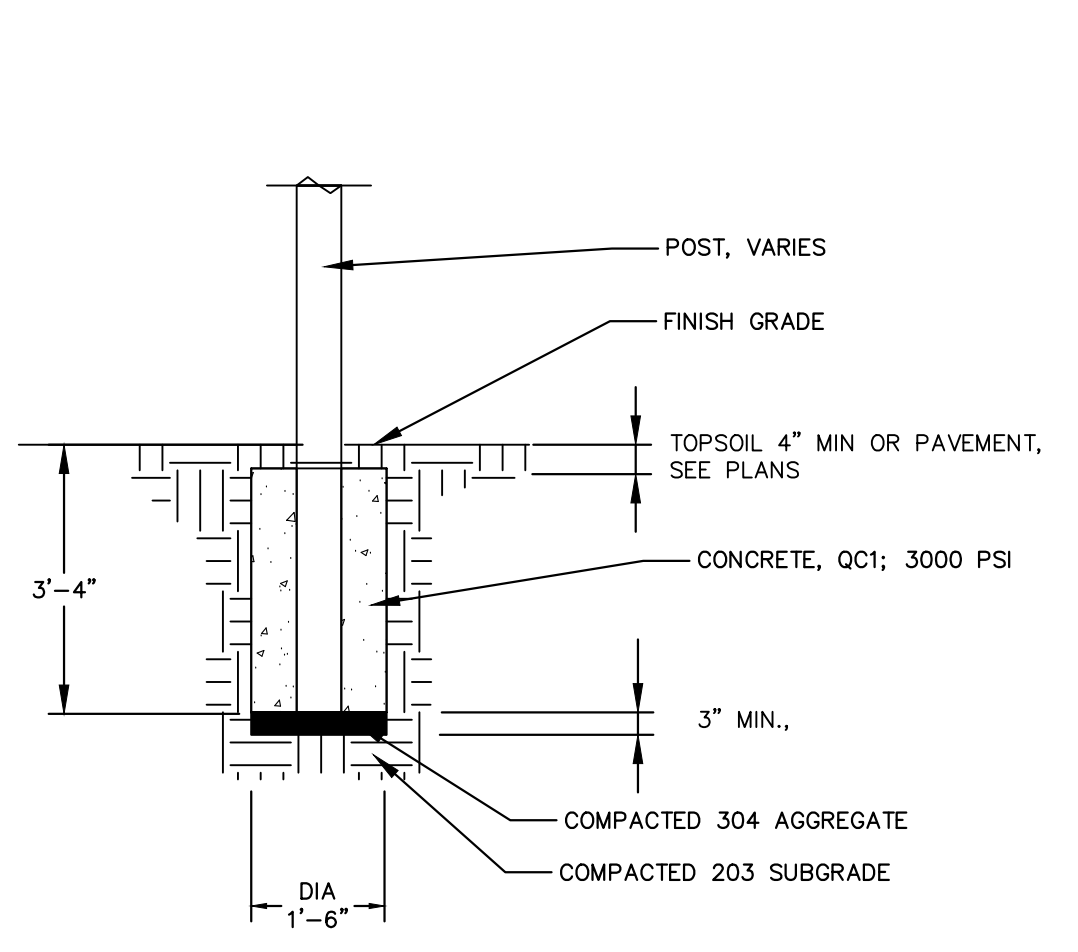
JOINTS

CONCRETE PAVEMENT	CONC	BASE	REINFORCING
STANDARD DUTY	5"	4"	WWM/FIBER
HEAVY DUTY	8"	4"	NONE
HEAVY DUTY-LAUNCH	8"	12"	SEE LAUNCH DETAILS

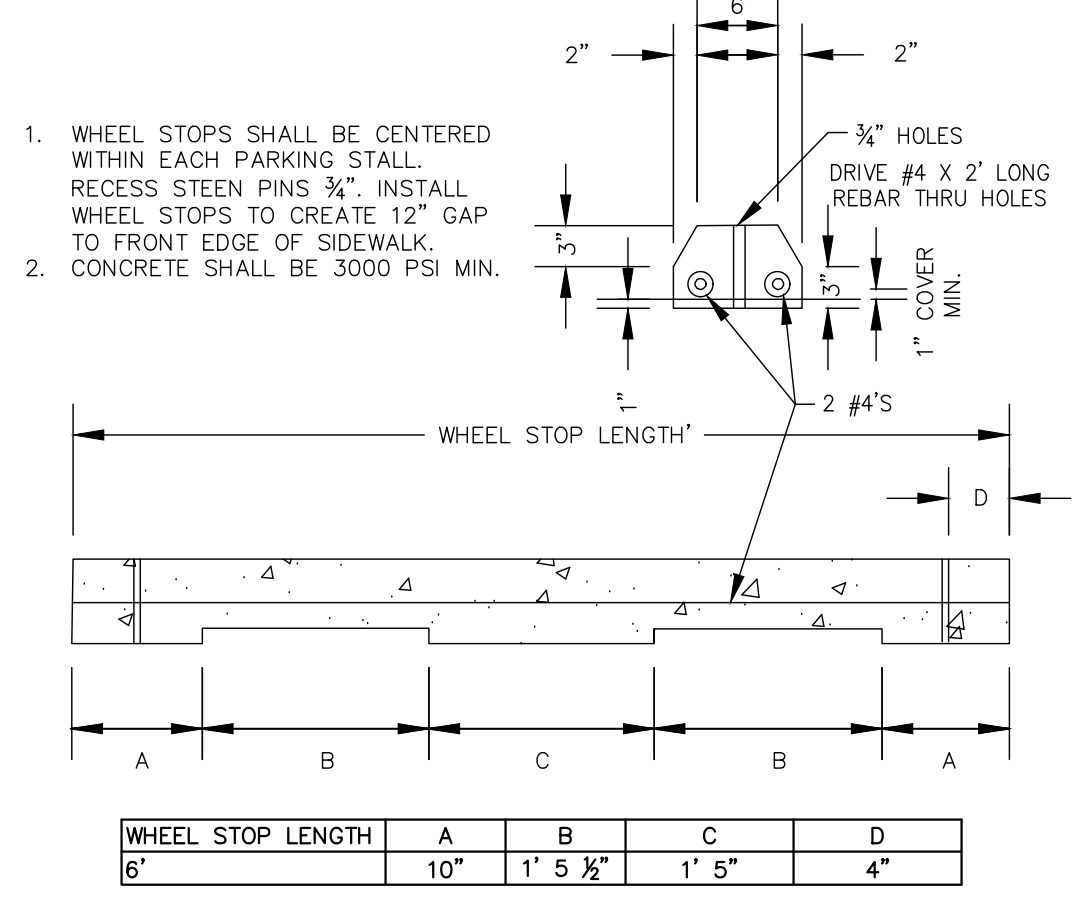
2 CONCRETE PAVEMENT
SCALE: NOT TO SCALE



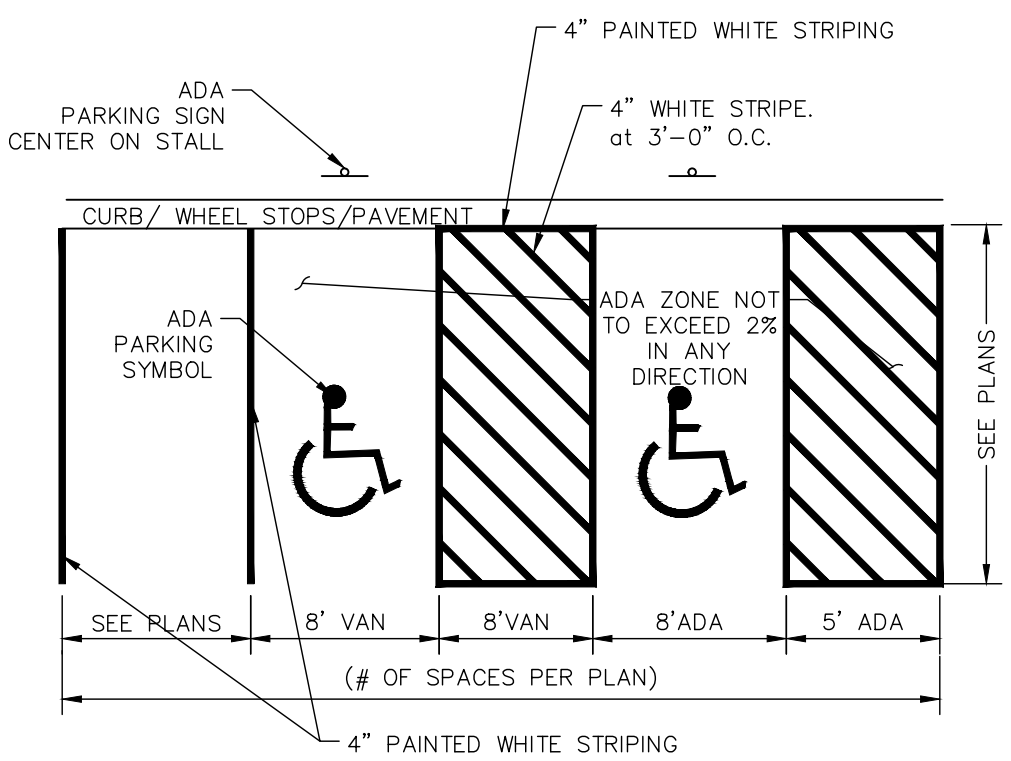
4 ADA PARKING SIGN
SCALE: NOT TO SCALE



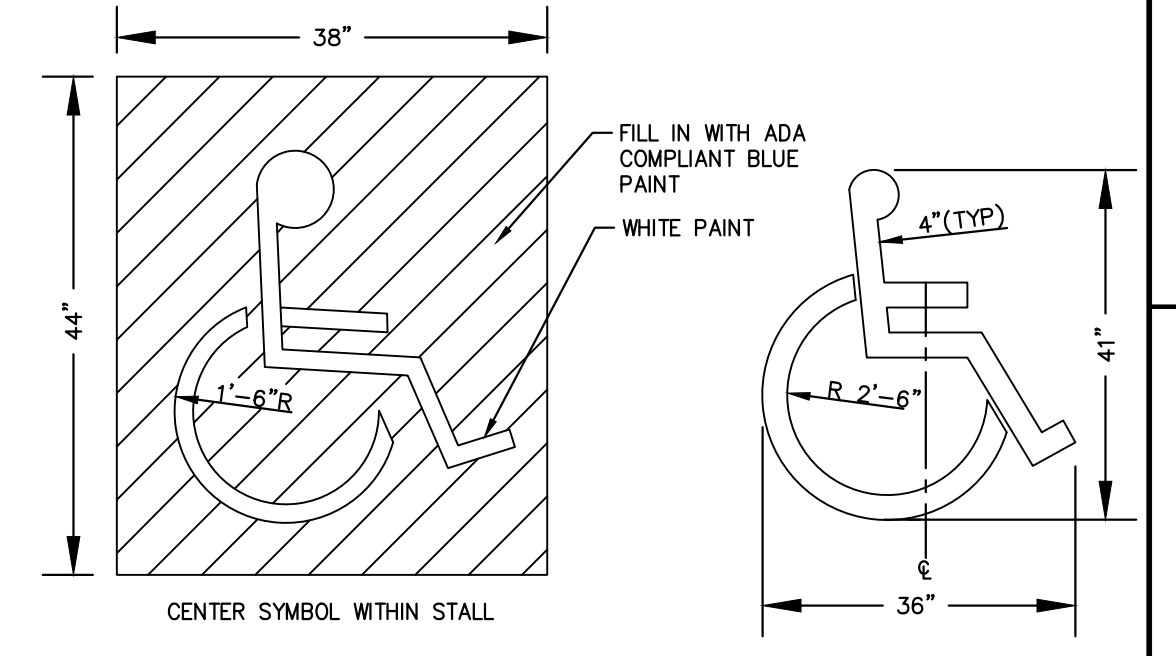
5 CONCRETE FOOTER FOR POST
SCALE: NOT TO SCALE



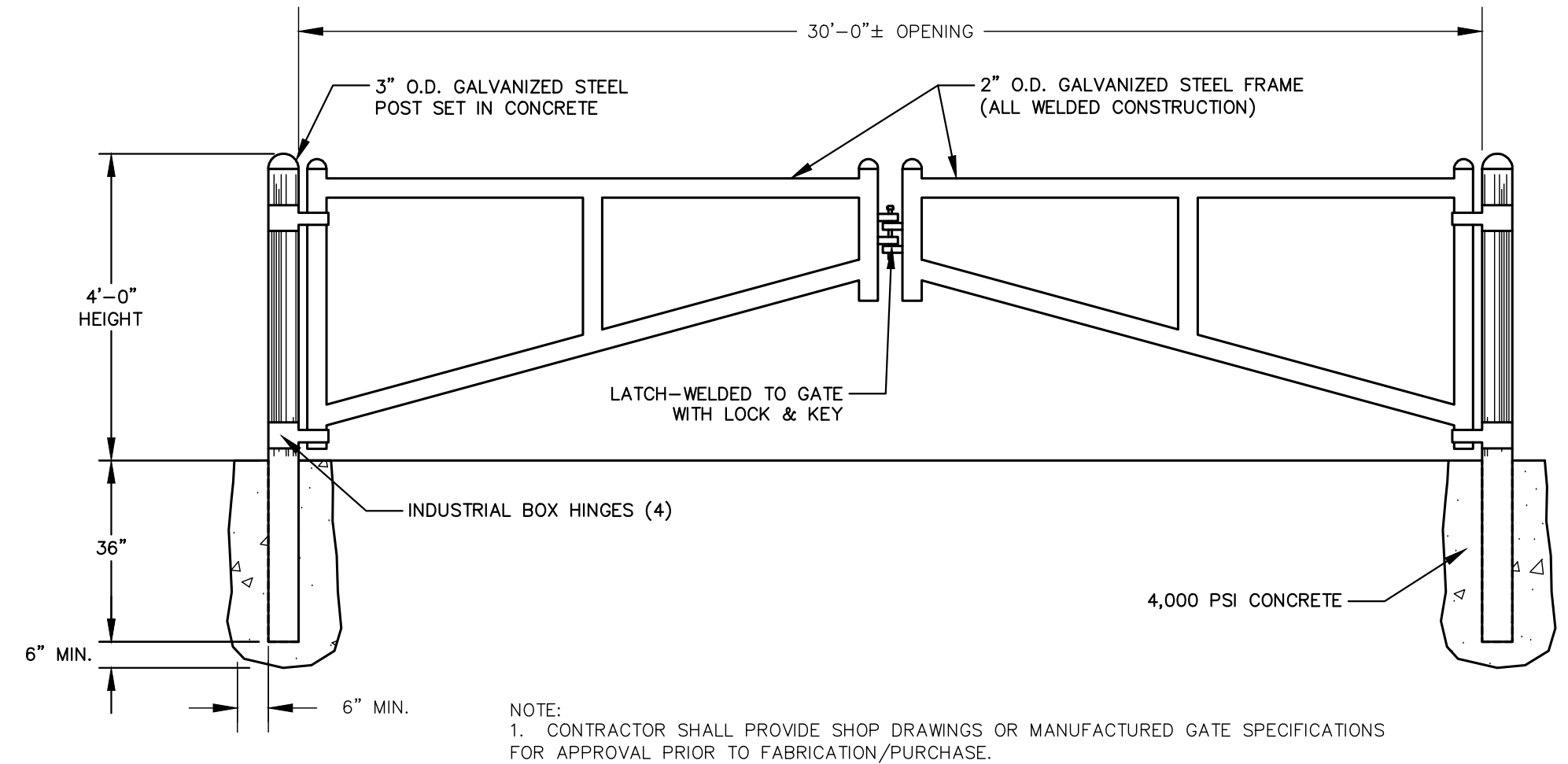
6 PARKING WHEEL STOP
SCALE: NOT TO SCALE



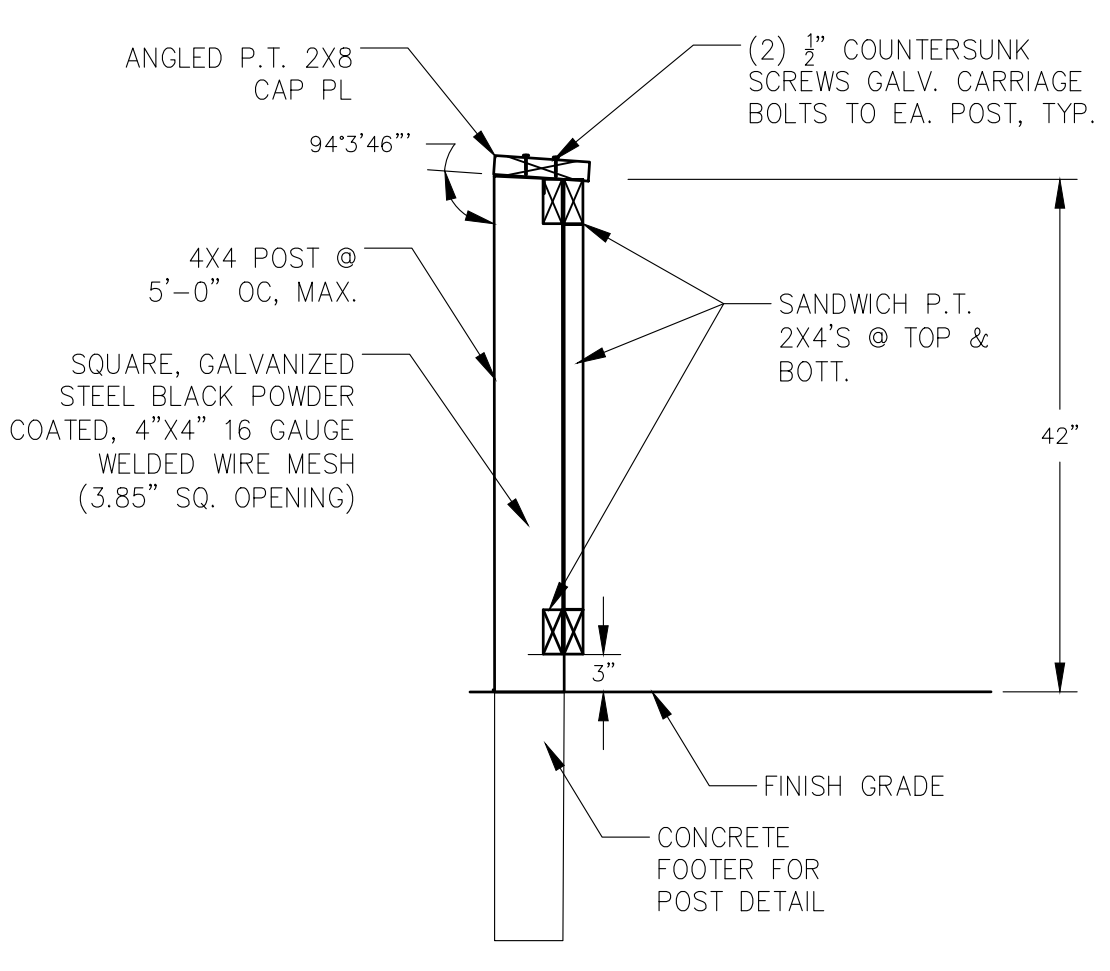
7 PARKING SPACE STANDARD LAYOUT
SCALE: NOT TO SCALE



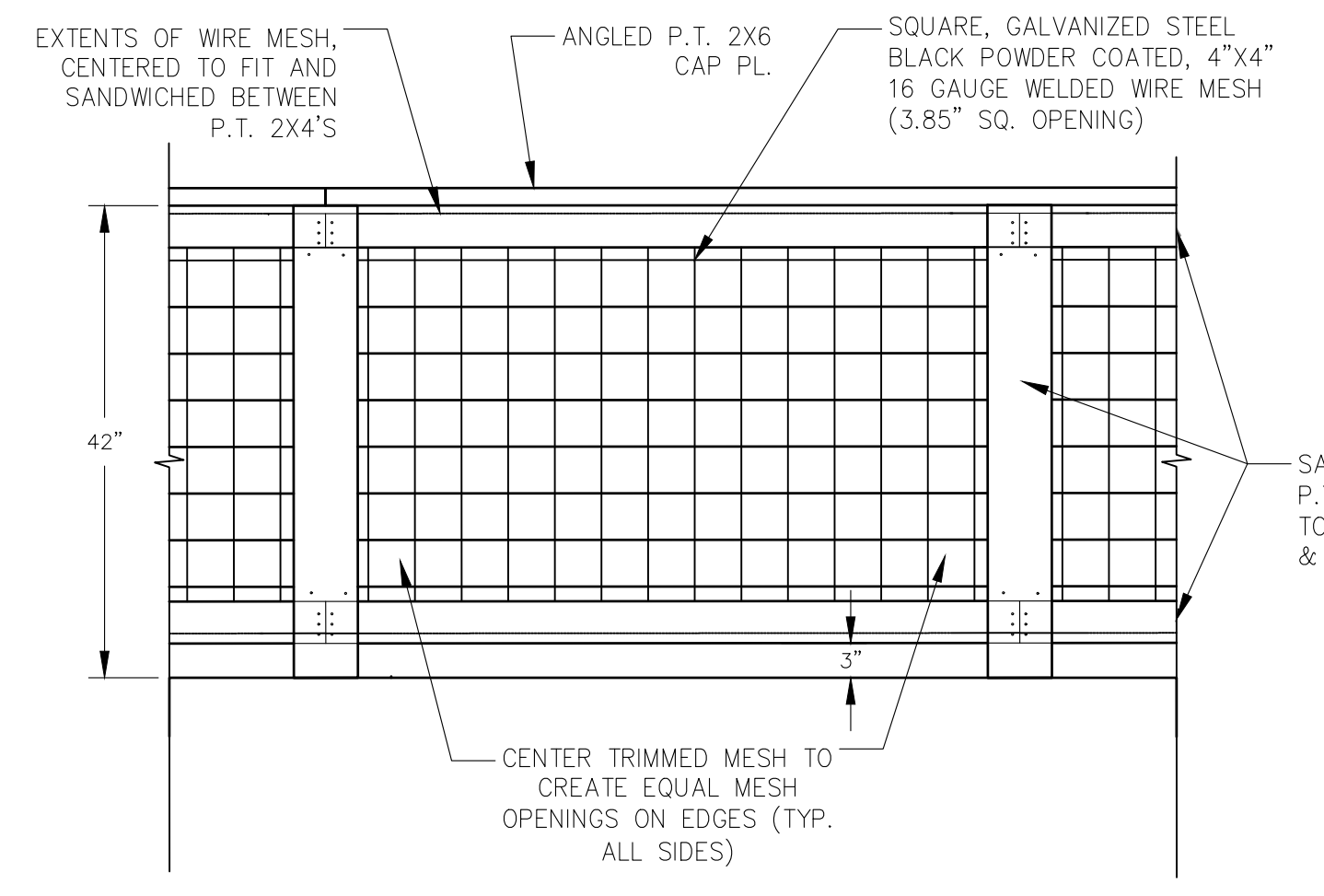
8 ADA PARKING SYMBOL
SCALE: NOT TO SCALE



9 DOUBLE SWING ENTRANCE GATE
SCALE: NOT TO SCALE



1 DECORATIVE WOOD FENCE
SCALE: NOT TO SCALE



- NOTE:**
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

NO.	REVISIONS	DATE	BY

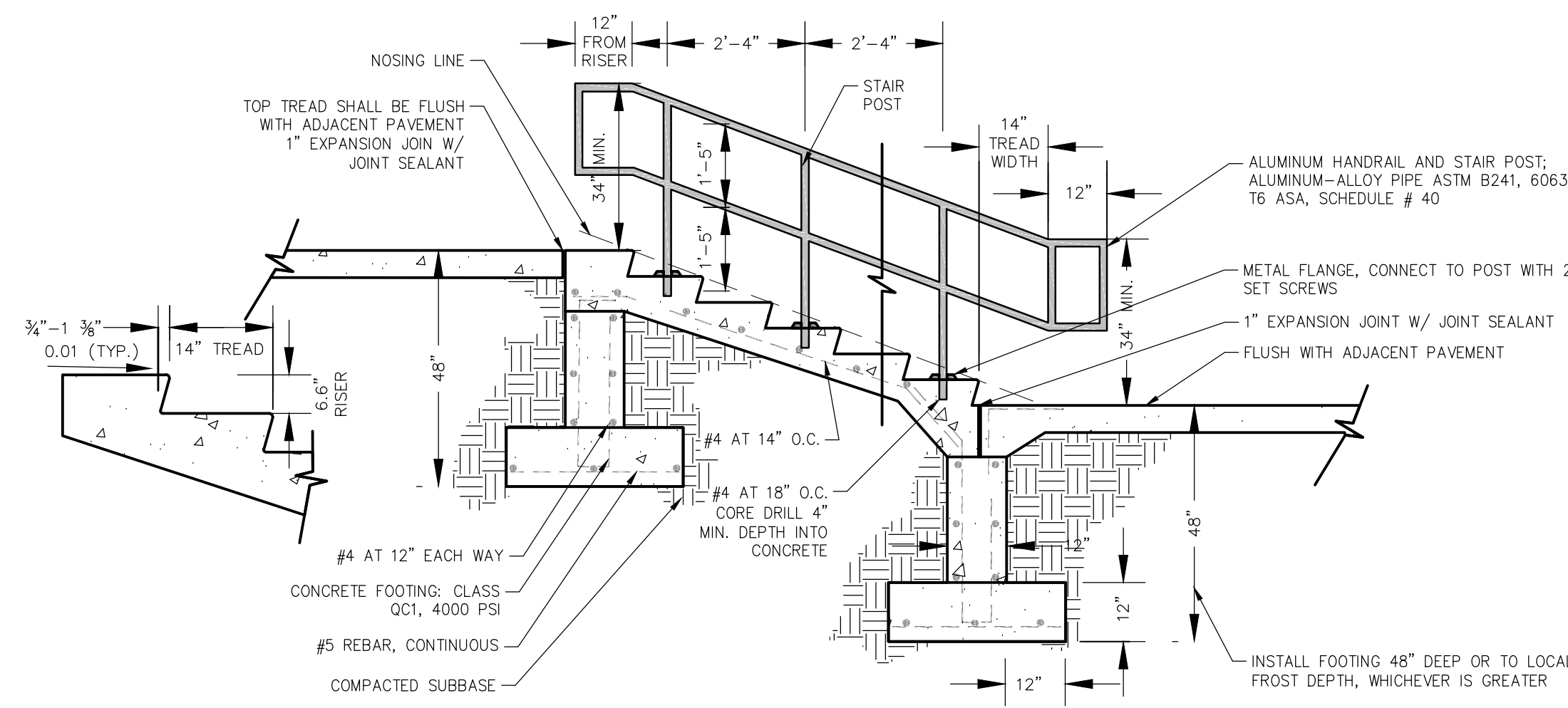
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KHA PROJECT	180096001
DATE	12/19/2025
SCALE	AS SHOWN
DESIGNED BY	KGH
DRAWN BY	AMM
CHECKED BY	KGH

PHASE I
HERON'S POINT AT
STADDENS
LANDING
 OHIO
 LICKING CO

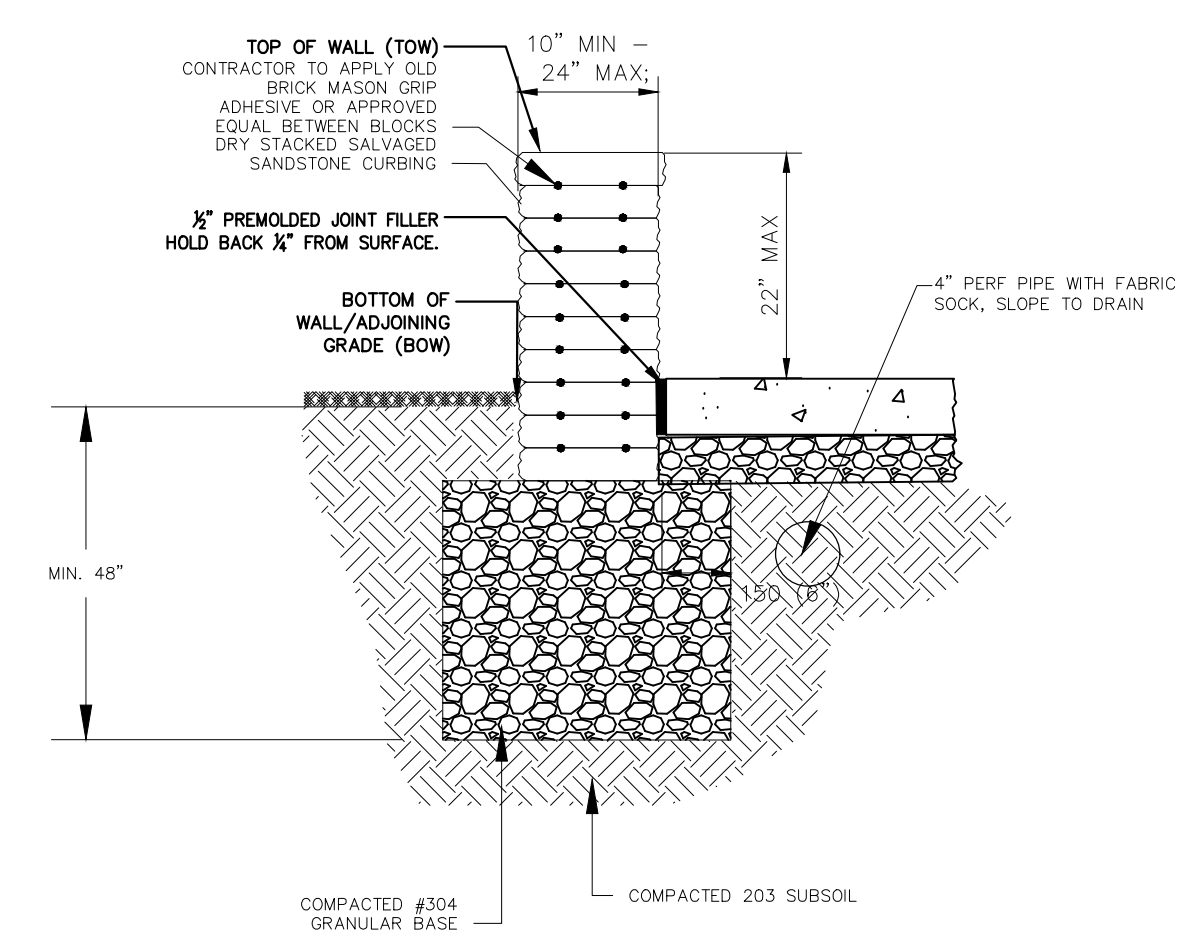
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C8.0

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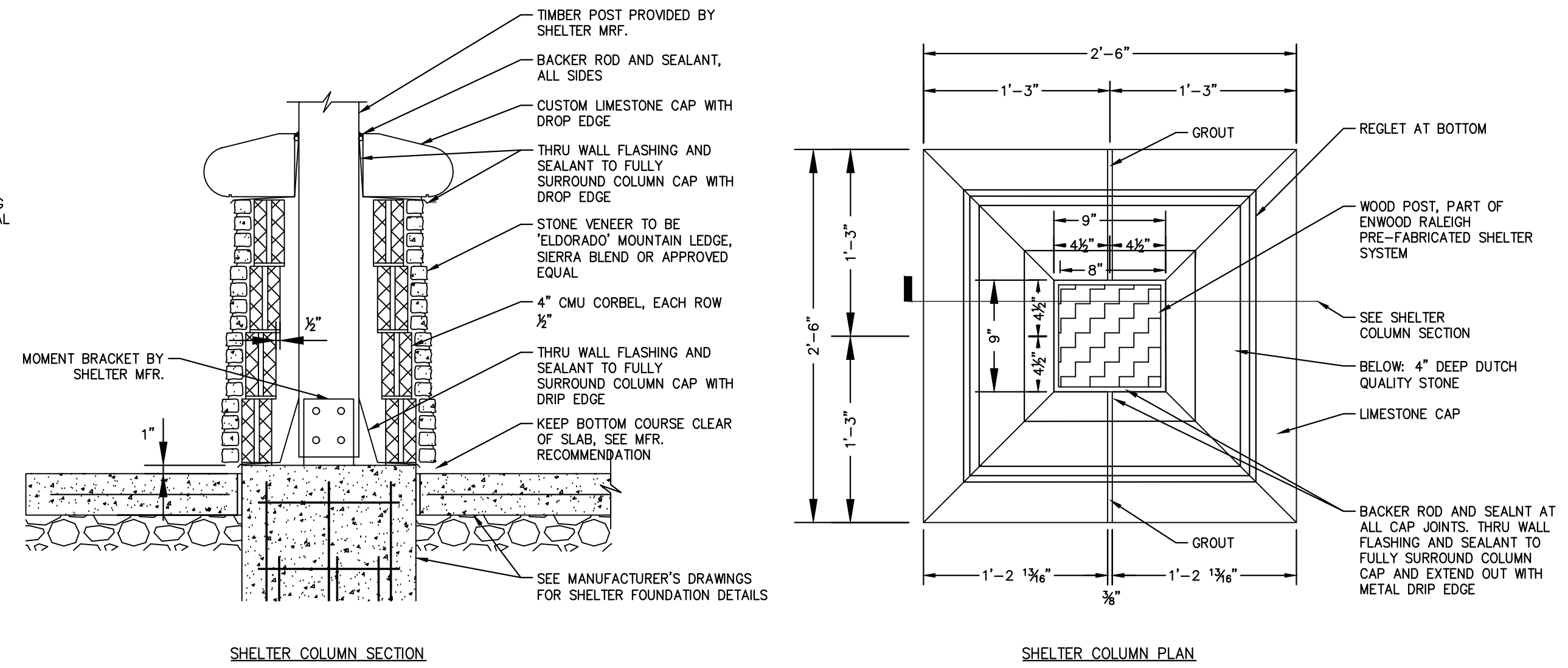
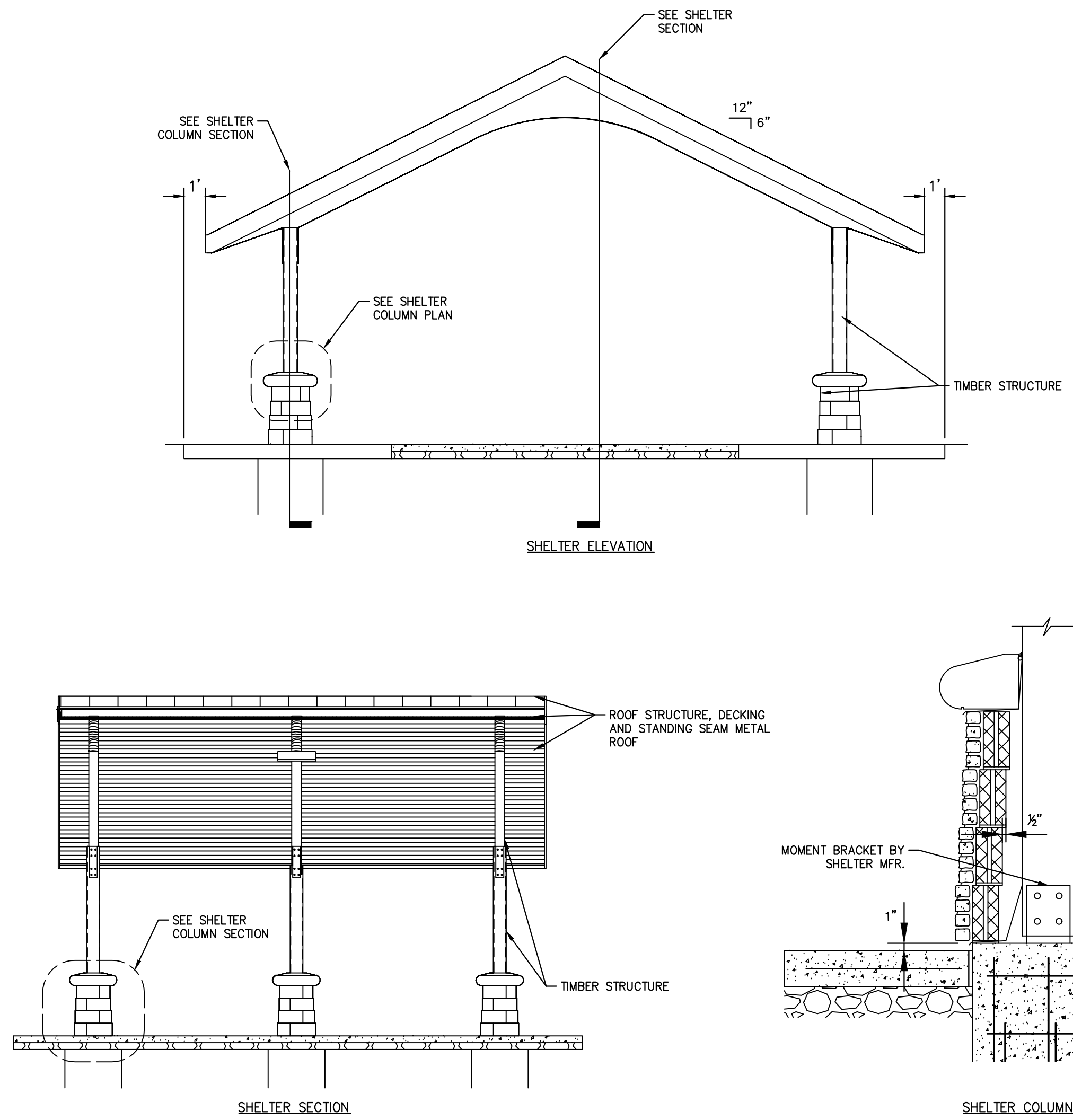
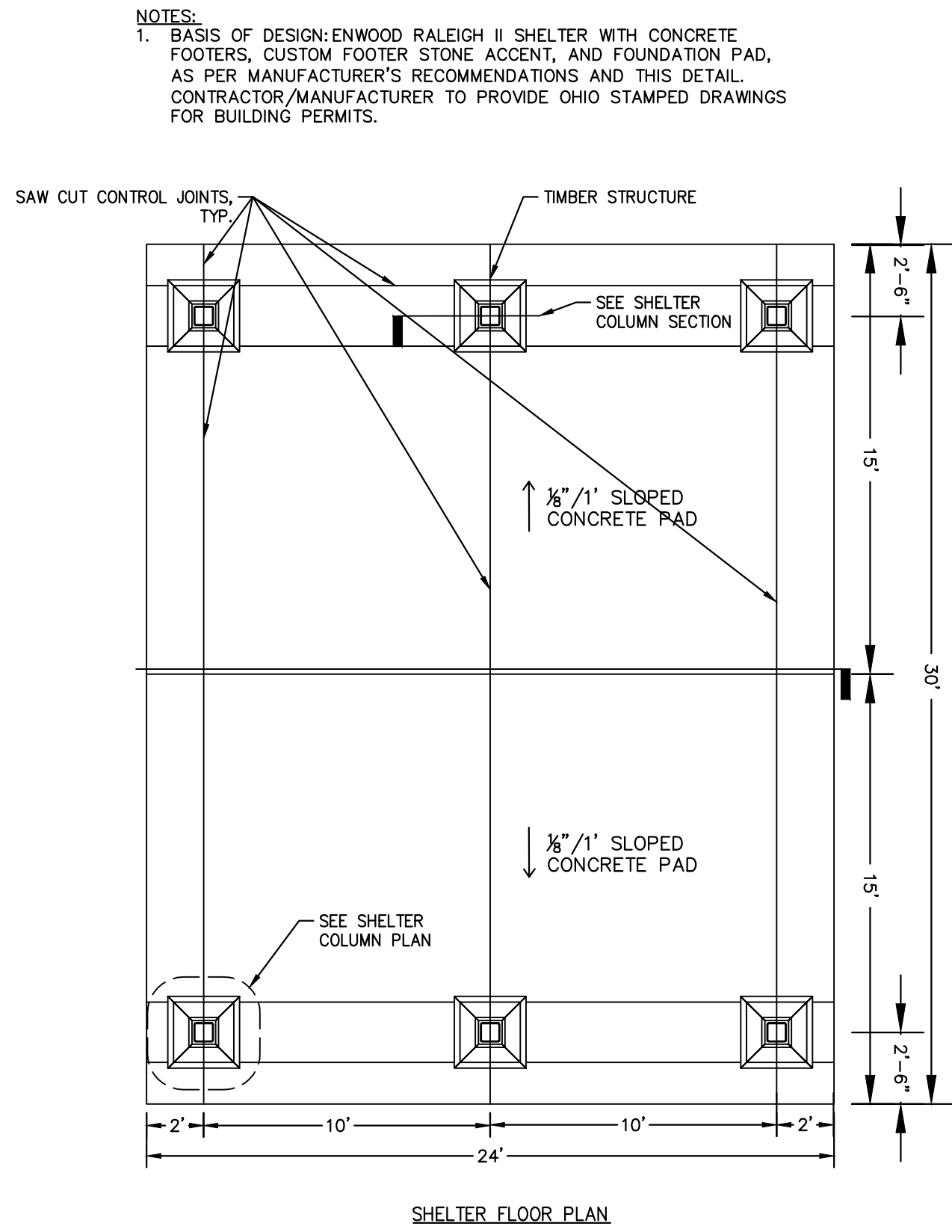
- NOTES:**
- STEPS SHALL COMPLY WITH ADAAG STANDARDS, SECTION 504
 - INSTALL STEPS PER ODOT ITEM 608
 - PROVIDE SPLICES FOR ALUMINUM RAILING WITH INTERNAL SLEEVES, AND AFTER WELDING, BE SMOOTH AND WATER TIGHT
 - CAST IN PLACE OR SET STAIR POSTS IN SOCKETS FILLED WITH 1:3 PROPORTIONED CEMENT MORTAR. PROVIDE A HEAVY COATING OF ASPHALT VARNISH OR COAL TAR PITCH PAINT (BOTH INSIDE AND OUTSIDE) TO THE PORTION OF ALUMINUM STAIR POSTS SET INTO CONCRETE OR MORTAR
 - INSTALL STAIR POST AND HANDRAILS FREE OF BURRS AND SHARP PROJECTIONS
 - INSTALL HANDRAILS ON BOTH SIDES OF STEPS; LOCATE STAIR POSTS AT LEAST 3' FROM CONCRETE EDGE. RAILINGS SHALL BE CONTINUOUS THROUGH THE FULL LENGTH OF THE STAIRS. HAND RAILINGS SHALL BE INSTALLED ON ONE-SIDE OF RAILING, HAVE A CONSTANT HEIGHT BETWEEN 34" AND 38" ABOVE THE WALKING SURFACE; HAVE AN OUTSIDE CROSS-SECTION BETWEEN 4" AND 6.25" AS SHOWN IN DETAIL. CONNECTION TO RAILING(S) AS SHOWN.
 - LOCATE REBAR AT LEAST 3' FROM EDGE OF CONCRETE
 - THE SLOPE OF THE WALKING SURFACES OF TREADS/LANDINGS SHALL NOT BE GREATER THAN 1:48 IN ANY DIRECTION.
 - LIGHT BROOM FINISH ON STEPS
 - HANDRAILS TO BE CONTINUOUS THROUGHOUT LENGTH OF STAIRWAY AND EXTEND PAST THE LENGTH OF THE STAIR A MIN. OF 12", TOP AND BOTTOM

1 CONCRETE STAIRS W/ HANDRAIL
SCALE: NOT TO SCALE



- NOTES:**
- WALL SHALL BE ON SITE SALVAGED, ANGULAR SANDSTONE CURBING. CONTRACTOR TO CREATE PILE OF PROPOSED SALVAGED SANDSTONE CURBING FOR APPROVAL PRIOR TO RE-USE.
 - INSTALL WITH NO GREATER THAN 22-INCH TOTAL HEIGHT
 - PROVIDE POSITIVE DRAINAGE AWAY FROM TOP OF WALL, USING SWALE AS NEEDED.
 - PROVIDE POSITIVE DRAINAGE OF DRAIN PIPE; DAYLIGHT TO EX/PROP DRAINAGE SWALES OR CONNECT TO EX/PROP STORM PIPE

2 SEAT WALL
SCALE: NOT TO SCALE

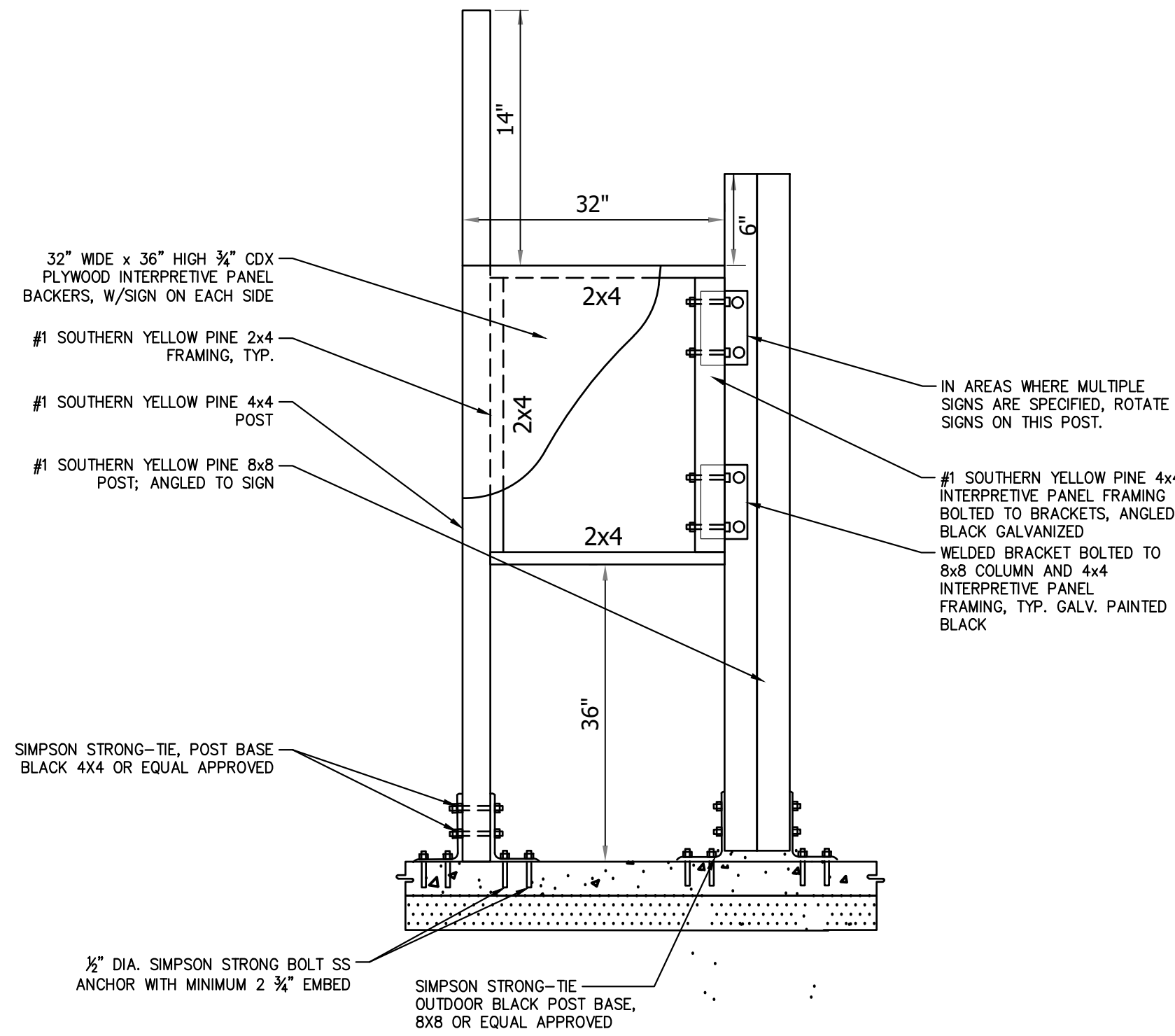


3 30' x 24' SHELTER
SCALE: NOT TO SCALE

KHA PROJECT 180096001		DATE 12/19/2025		SCALE AS SHOWN		DESIGNED BY KCH		DRAWN BY AMM		CHECKED BY KCH		
CONSTRUCTION DETAILS												
PHASE I						HERON'S POINT AT STADDENS LANDING						
OHIO LICKING CO												
SHEET NUMBER C8.1												
										REVISIONS	DATE	BY

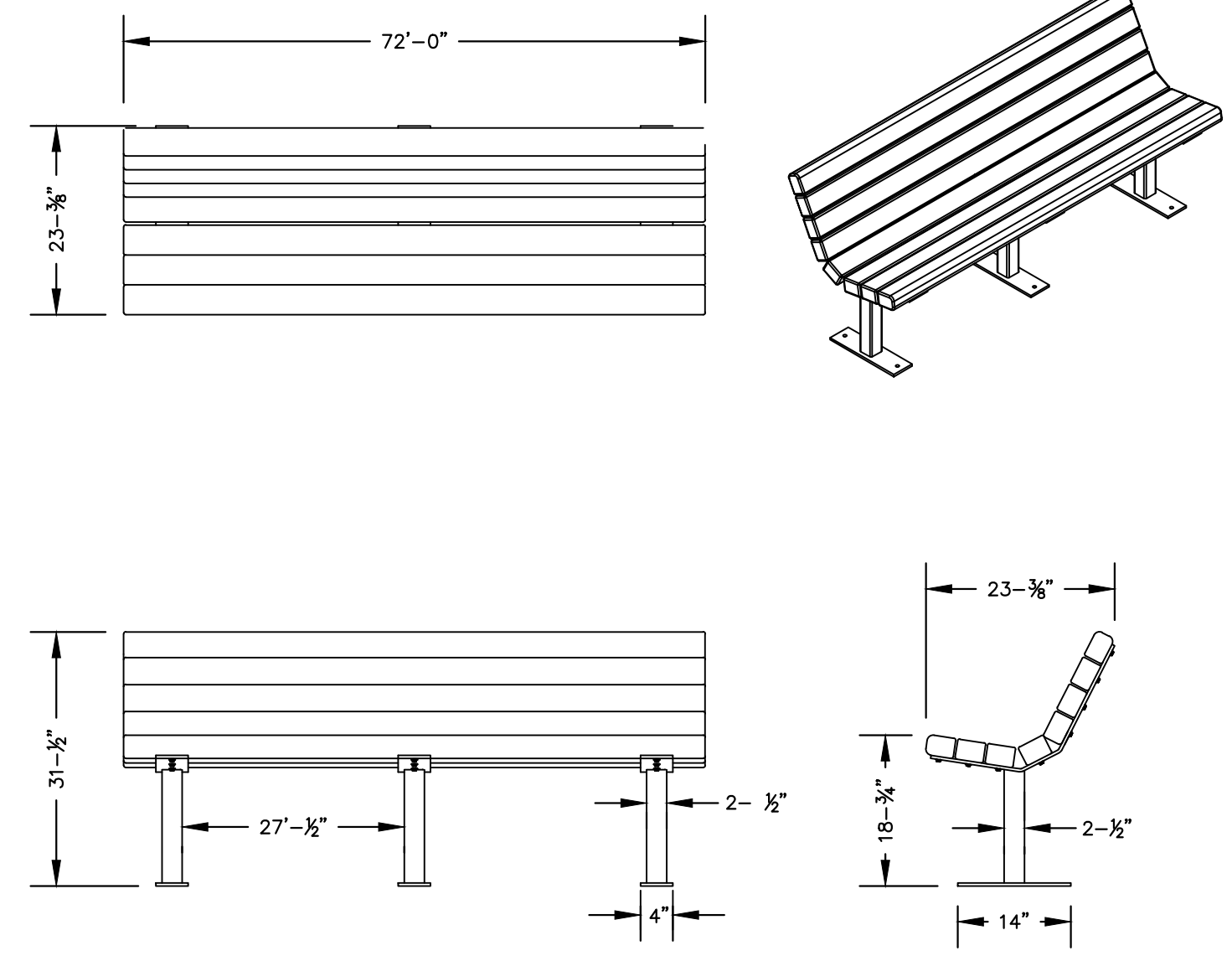
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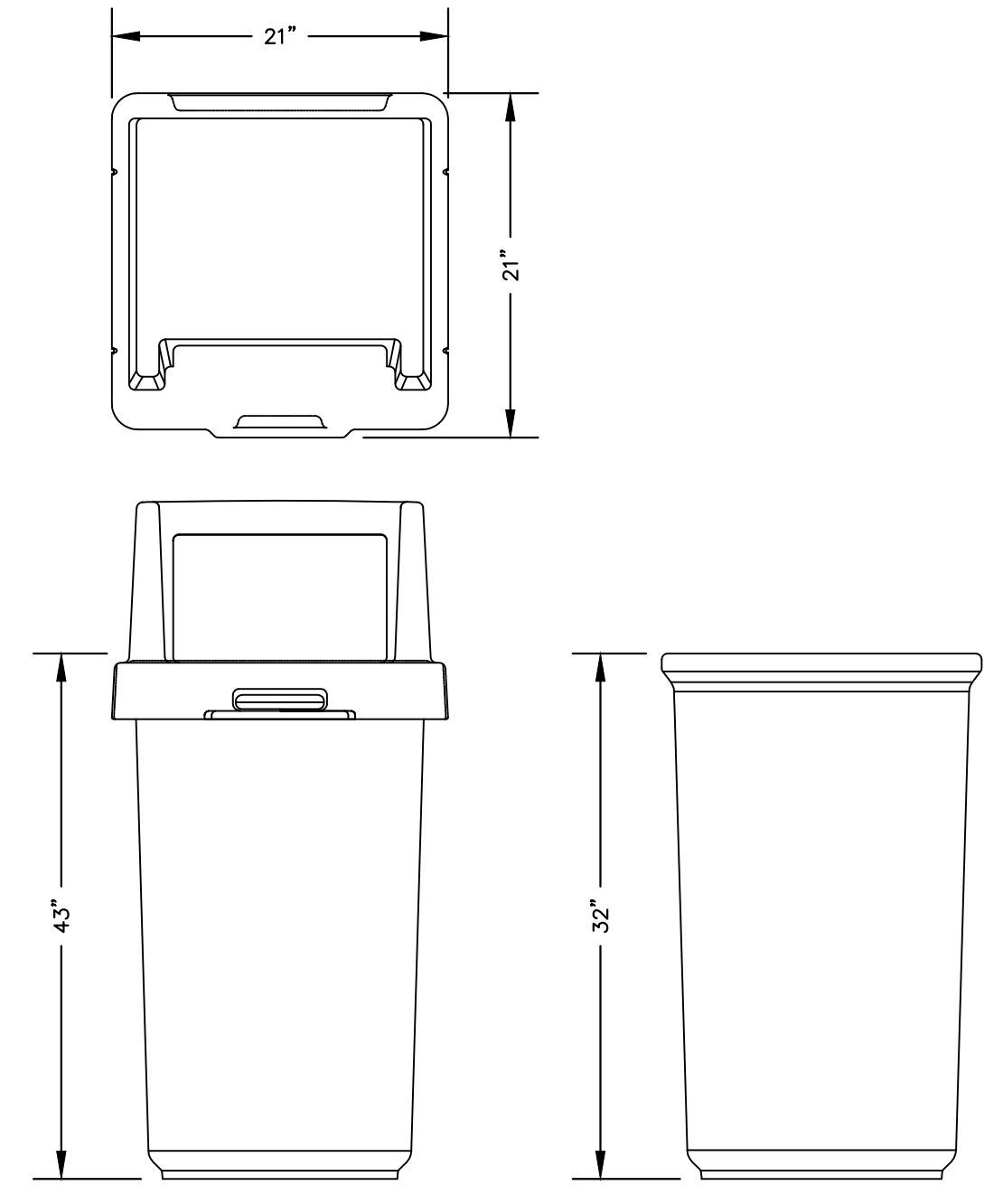
NOTES:
 1. OWNER SHALL PROVIDE GRAPHICS FOR SIGN PANELS. CONTRACTOR SHALL PRINT ONTO VINYL BACKED ACRYLIC, COLOR SAFE SIGN AND MOUNT. 5 YEAR COLOR SAFE WARRANTY.

1 INTERPRETIVE SIGN KIOSK
 SCALE: NOT TO SCALE



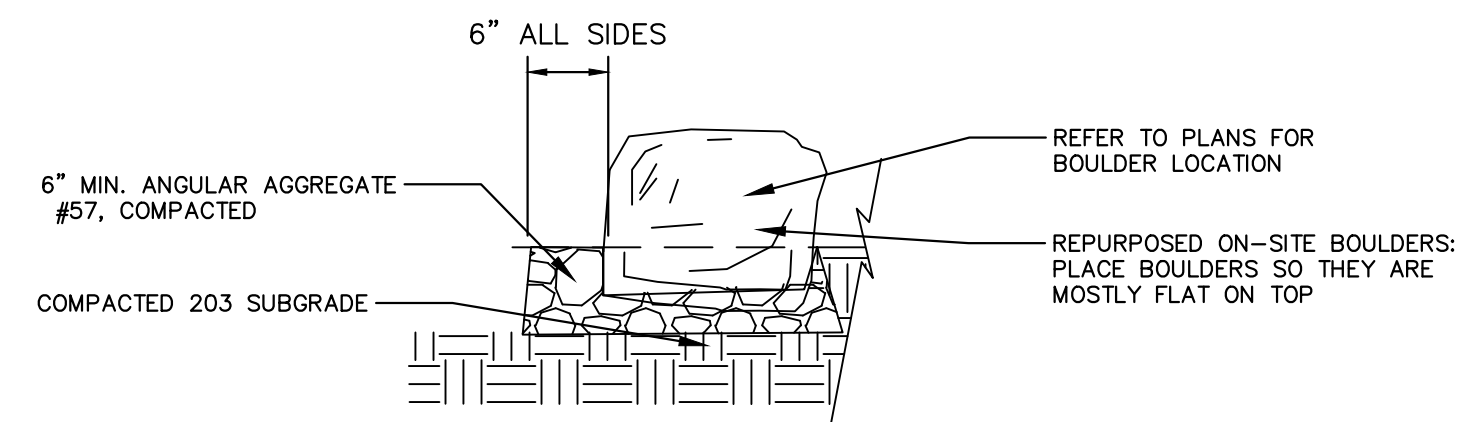
NOTES:
 1. BASIS OF DESIGN: BELSON PRODUCT PB6-JAM, COLOR: BROWN
<https://www.belson.com/Recycled-Plastic-Jameson-Bench>
 2. SURFACE MOUNT

4 BENCH
 SCALE: N.T.S.



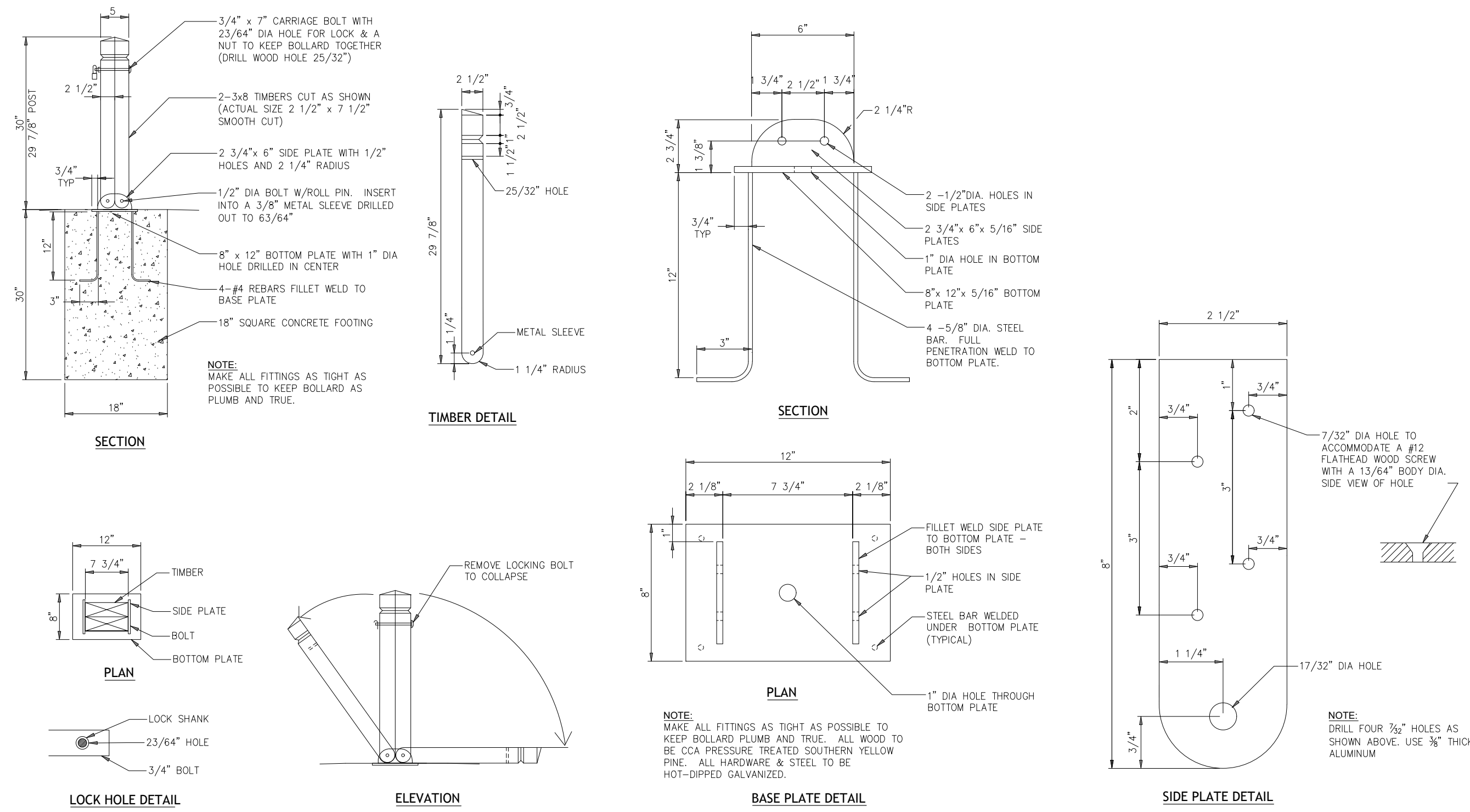
NOTES:
 1. BASIS OF DESIGN: BELSON PRODUCT TF1015, LID COLOR: BROWN
<https://www.belson.com/Commercial-Recycled-Plastic-Trash-Cans?addsearch=SH-TR01HA>
 2. SURFACE MOUNT

2 TRASH RECEPTACLE
 SCALE: NOT TO SCALE



NOTES:
 1. CONTRACTOR TO STAKE LOCATION OF BOULDERS PRIOR TO INSTALLATION.
 2. PLACE BOULDERS PRIOR TO PAVING.
 3. ENSURE POSITIVE DRAINAGE WITH NO POCKETS FOR WATER TO SETTLE ON OR AROUND BOULDERS.
 4. MINIMUM OF 4\"/>

3 REPURPOSED ON-SITE BOULDER
 SCALE: NOT TO SCALE

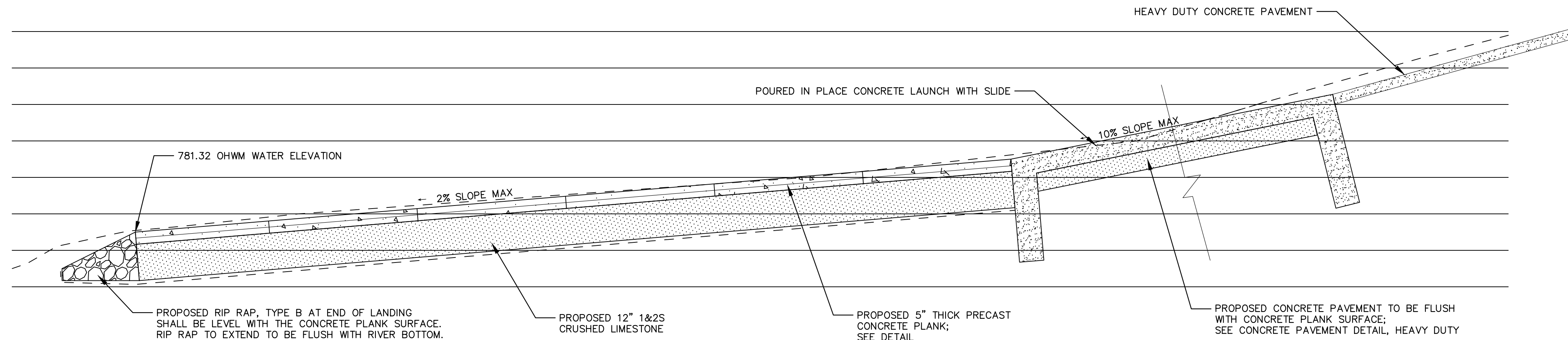


5 WOODEN COLLAPSIBLE BOLLARD
 SCALE: N.T.S.

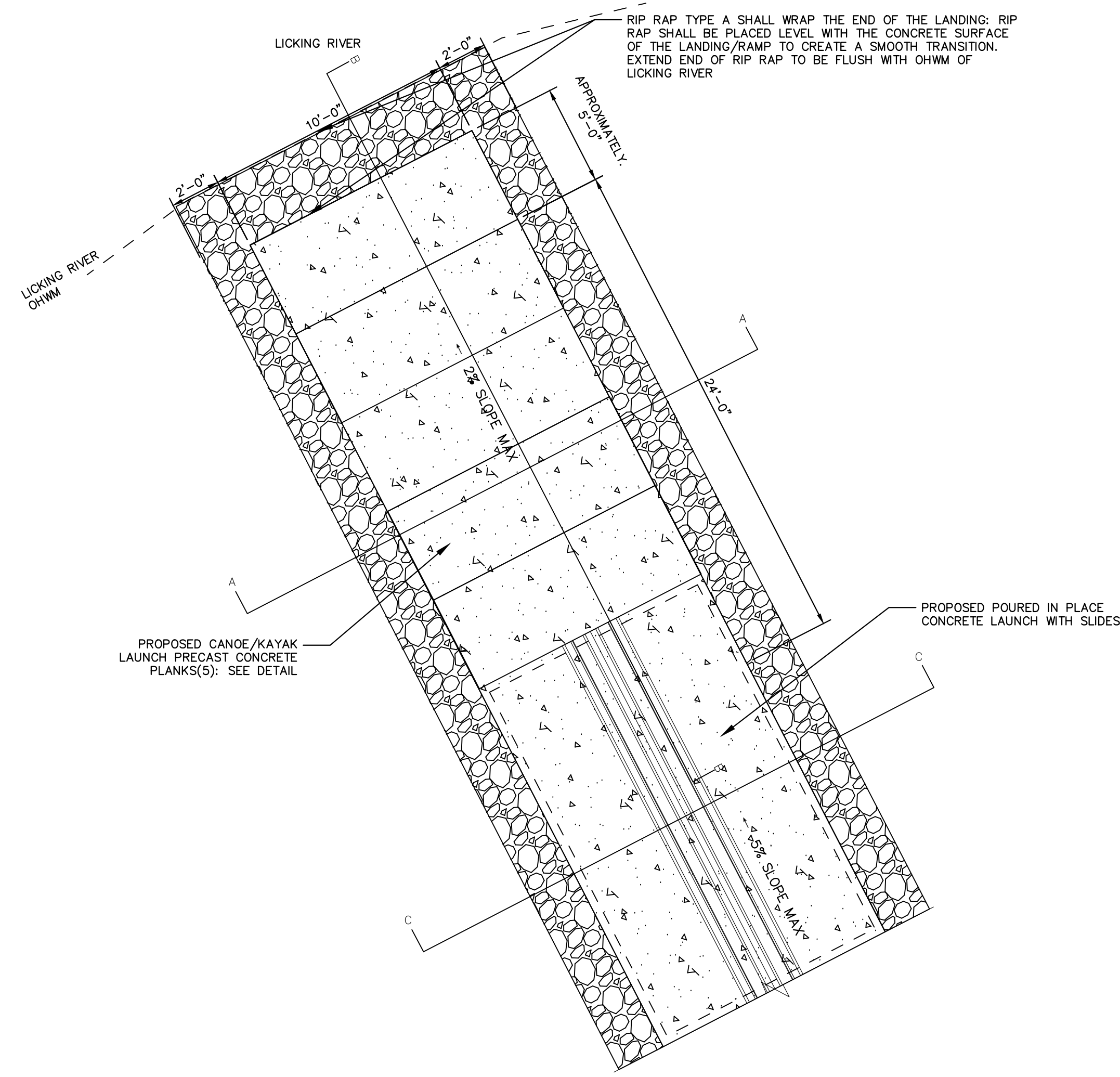
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PHASE I HERON'S POINT AT STADDENS LANDING						CONSTRUCTION DETAILS					
SHEET NUMBER C8.2						REVISIONS No. _____ DATE _____ BY _____					

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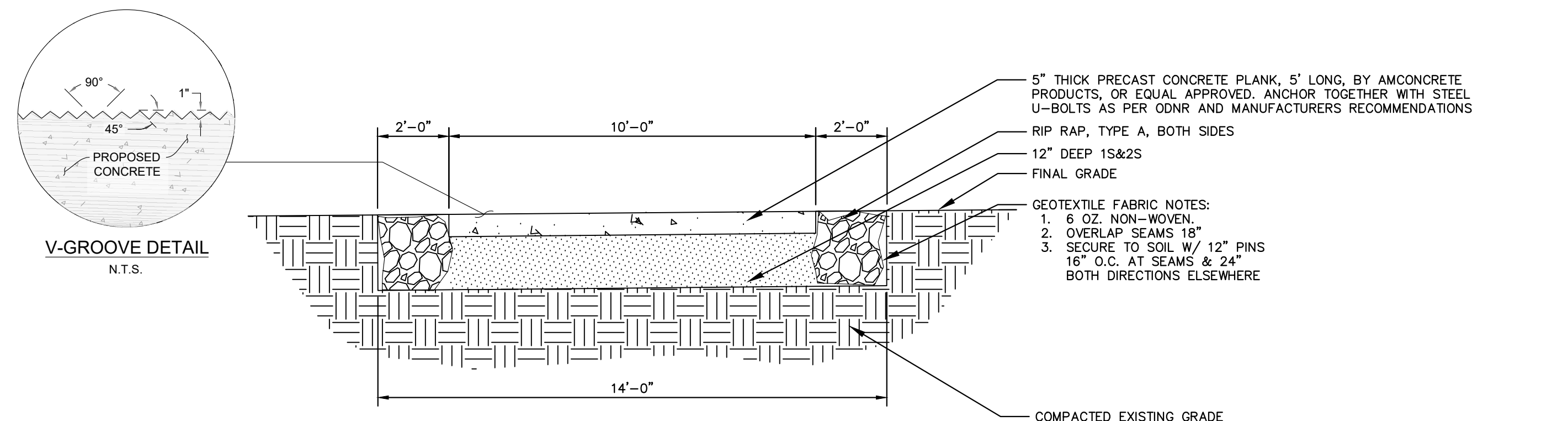
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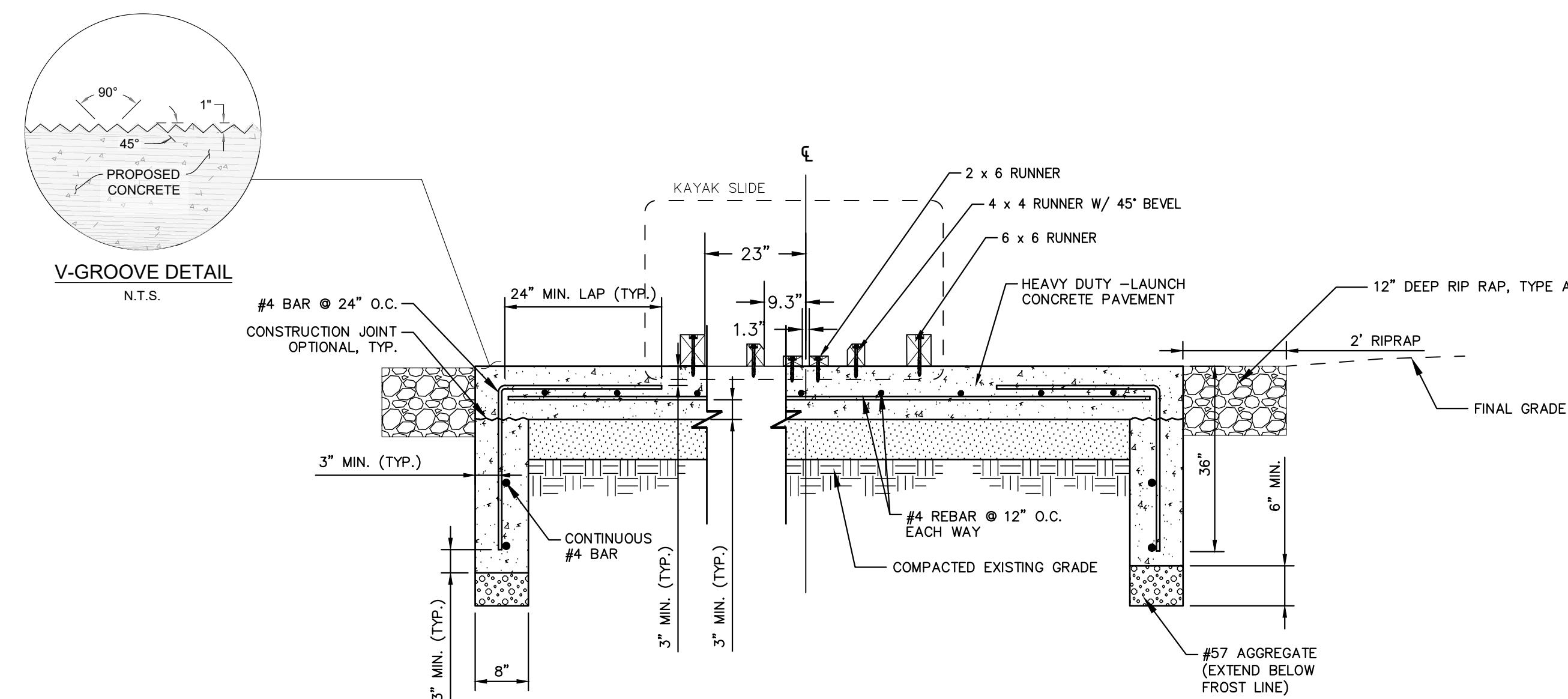
1 CANOE/KAYAK LAUNCH- PROFILE B-B
SCALE: N.T.S.



2 CANOE/KAYAK LAUNCH PLAN
SCALE: N.T.S.



3 CANOE/KAYAK LAUNCH PLANK- SECTION A-A
SCALE: N.T.S.



4 POURED IN PLACE CONCRETE LAUNCH WITH SLIDE C-C
SCALE: N.T.S.

- NOTE:
- CONTROL JOINTS SHALL BE SPACED AT 20'-0" MAX. FOR 8" SLAB.
 - SLAB CONTROL JOINTS SHALL BE SAWCUT 1/4 DEPTH OF SLAB THICKNESS AND SHALL BE CAULKED ONCE SLAB HAS CURED A MINIMUM OF 30 DAYS.
 - CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE PROJECT REPRESENTATIVE.
 - DISCONTINUE REINFORCEMENT AT CONSTRUCTION JOINTS.
 - KAYAK SLIDE: RUNNERS SHALL BE PLASTIC LUMBER WITH GALVANIZED, COUNTER SUNK BOLTS FOR A SMOOTH ON THE TOP, RUNNER SYSTEM FOR KAYAK BOATS. COLOR SHALL BE GREEN. BOLTS SHALL BE 1/2", SPACED EVERY 3', CENTERED ON BOARDS, EMBEDDED INTO CONCRETE BY 2".

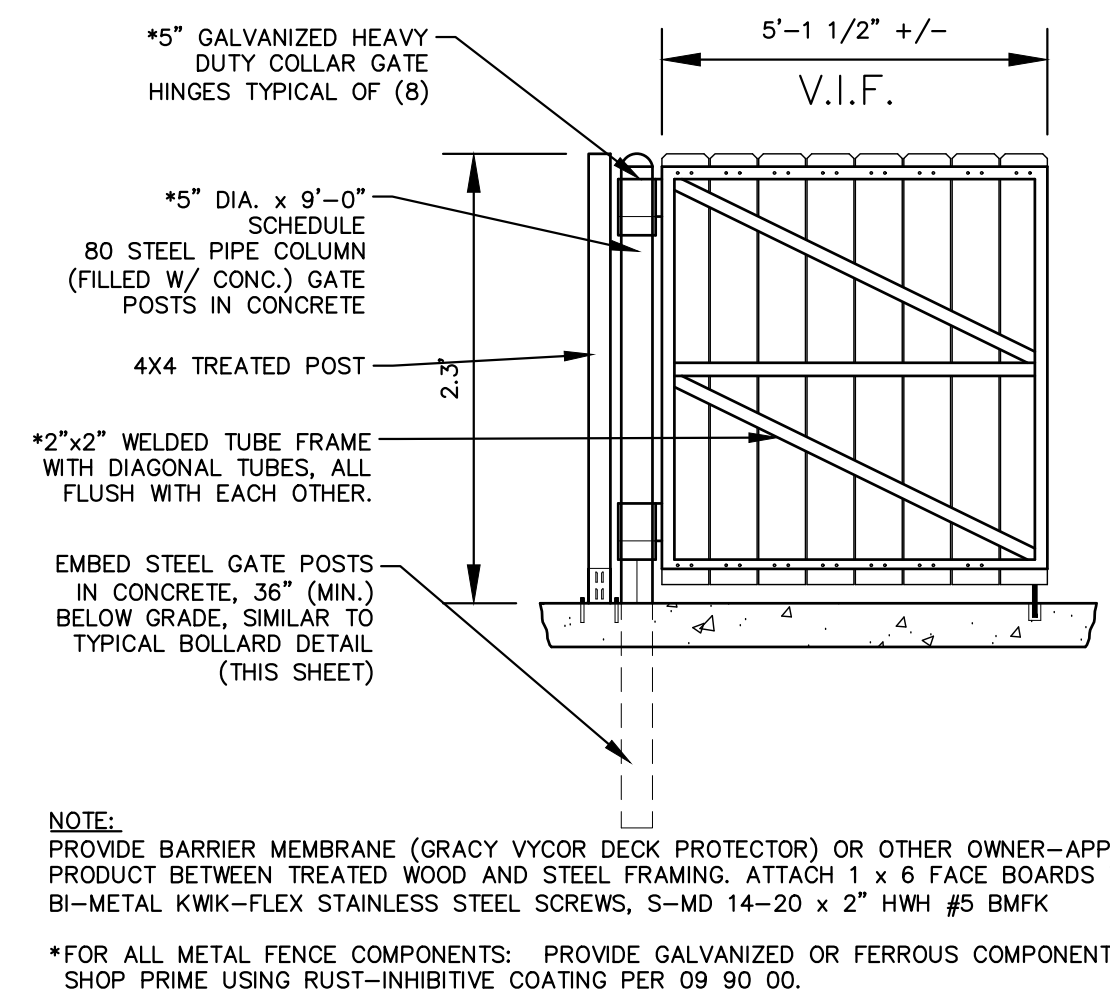
No.	REVISIONS	DATE	BY

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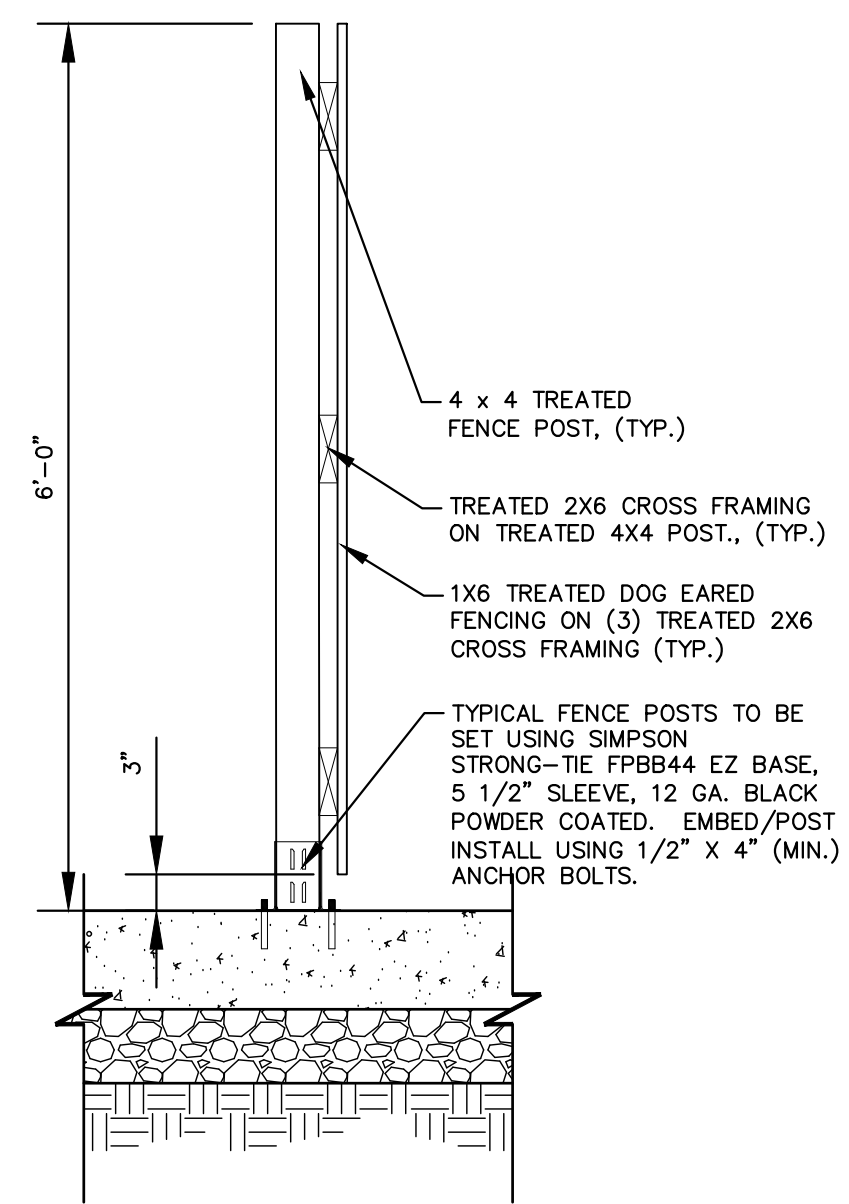
KHA PROJECT	180096001
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DESIGNED BY	KCH
DRAWN BY	AMM
CHECKED BY	KGH

PHASE I
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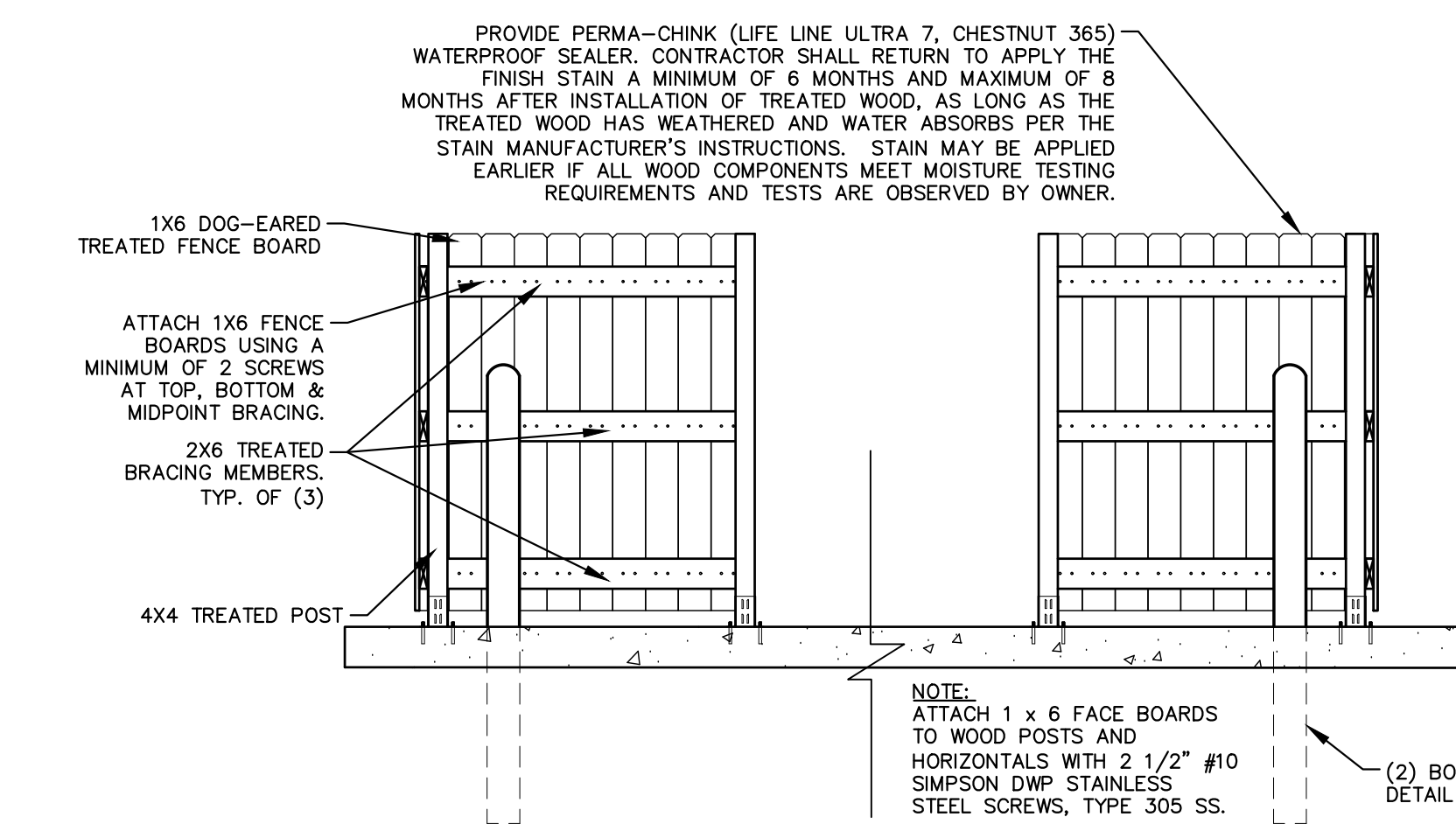
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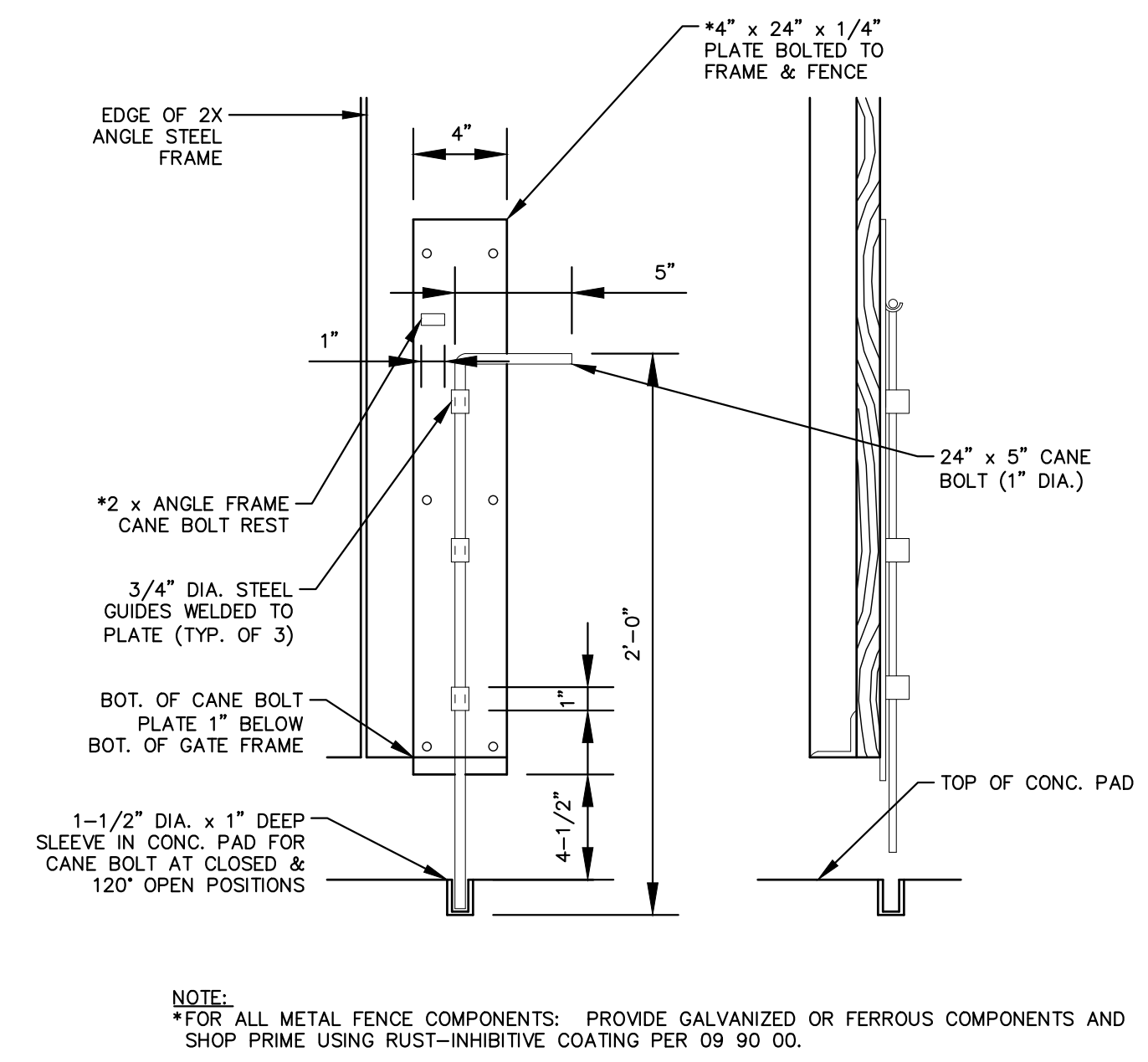
A FENCE ELEVATION B
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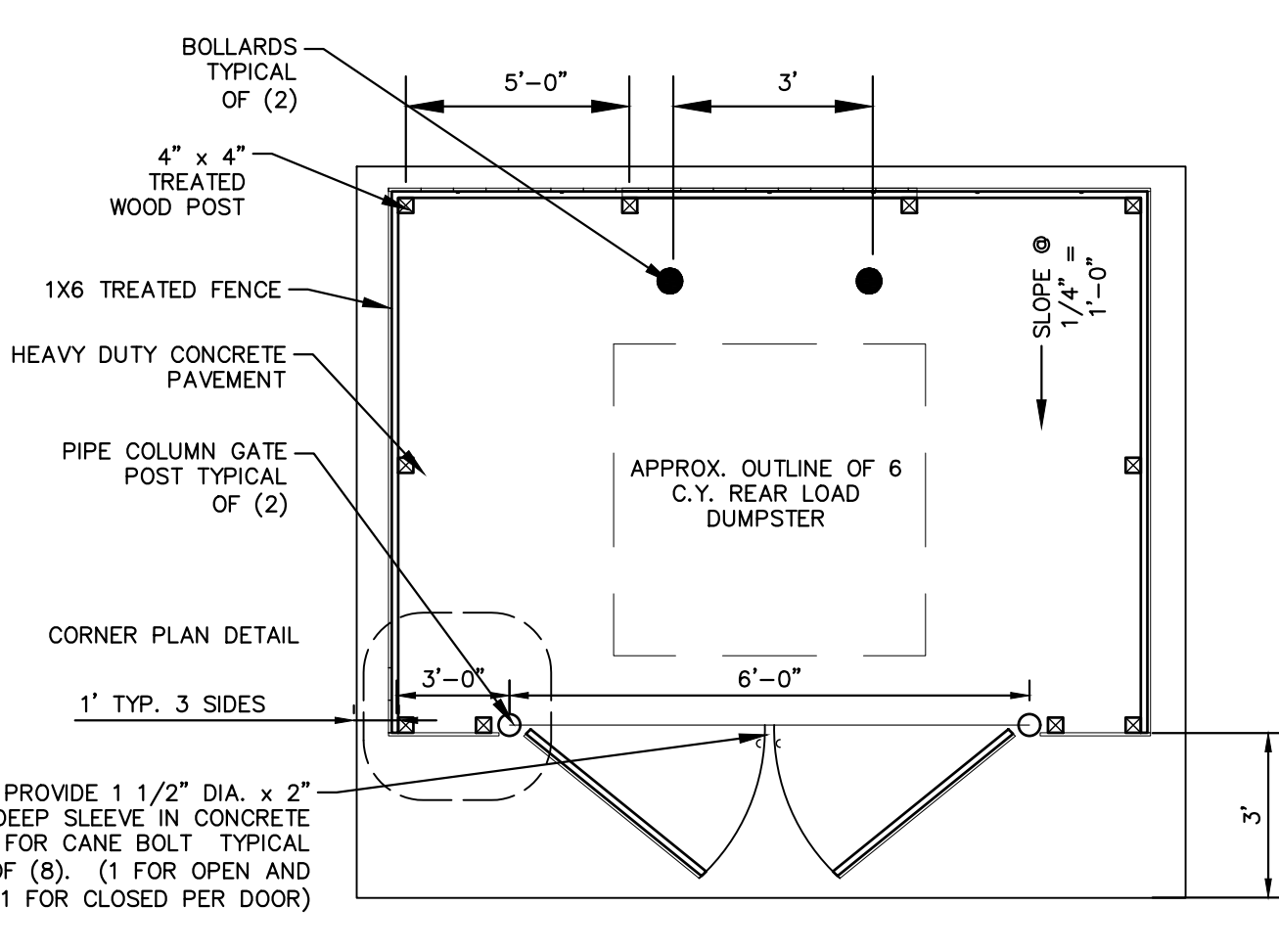
B POST
SCALE: NOT TO SCALE



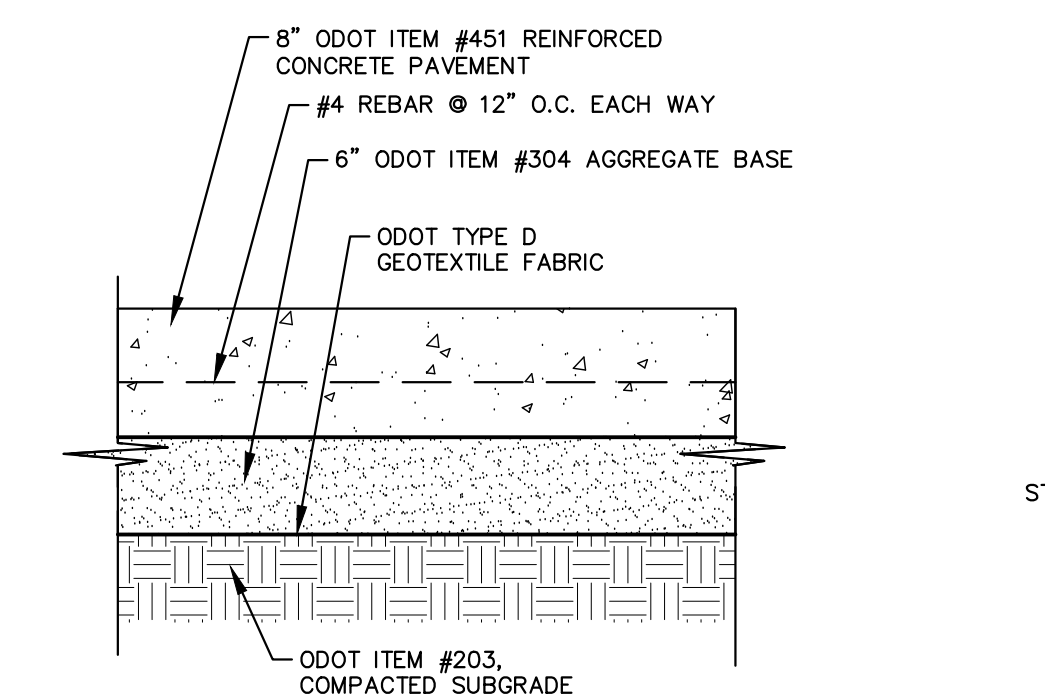
G FENCE ELEVATION A
SCALE: NOT TO SCALE



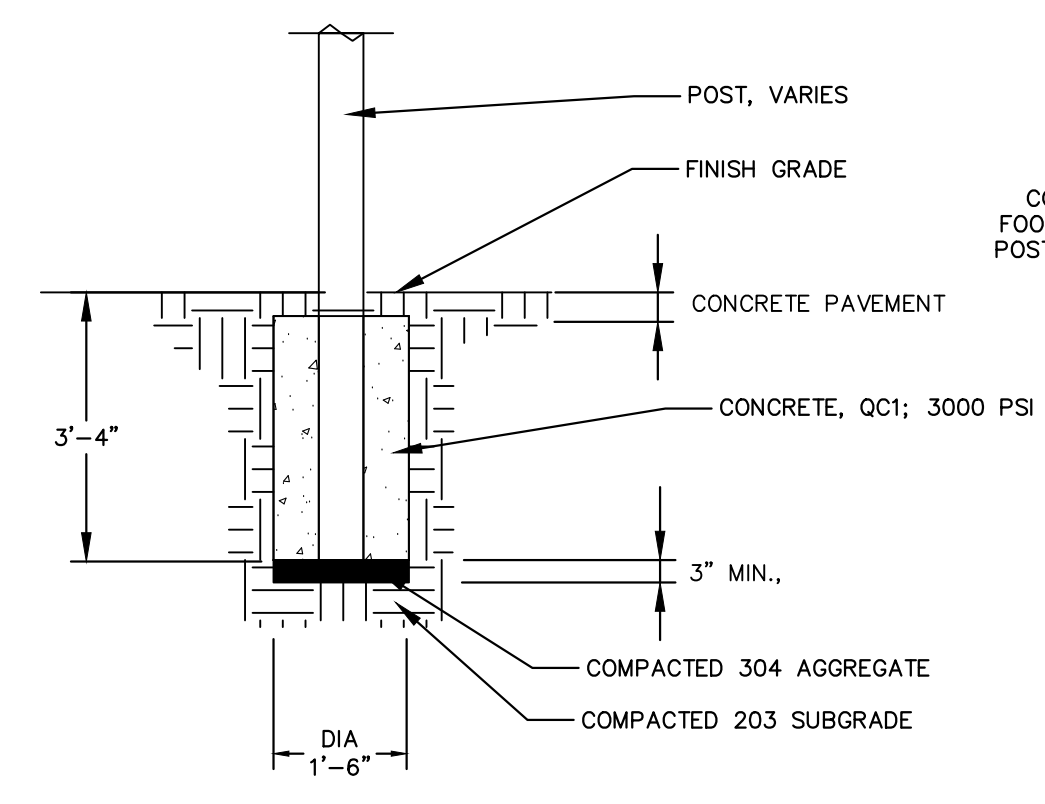
C CANE BOLT (1 PER GATE)
SCALE: NOT TO SCALE



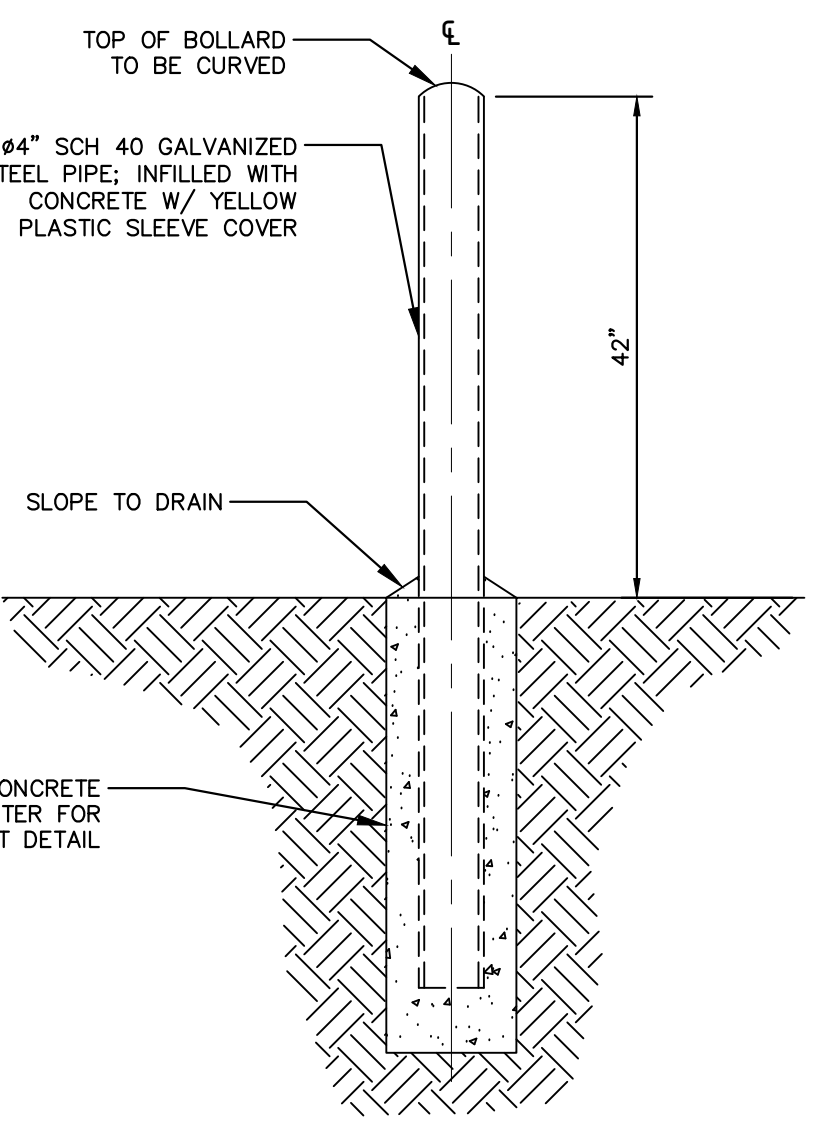
H TYPICAL LAYOUT
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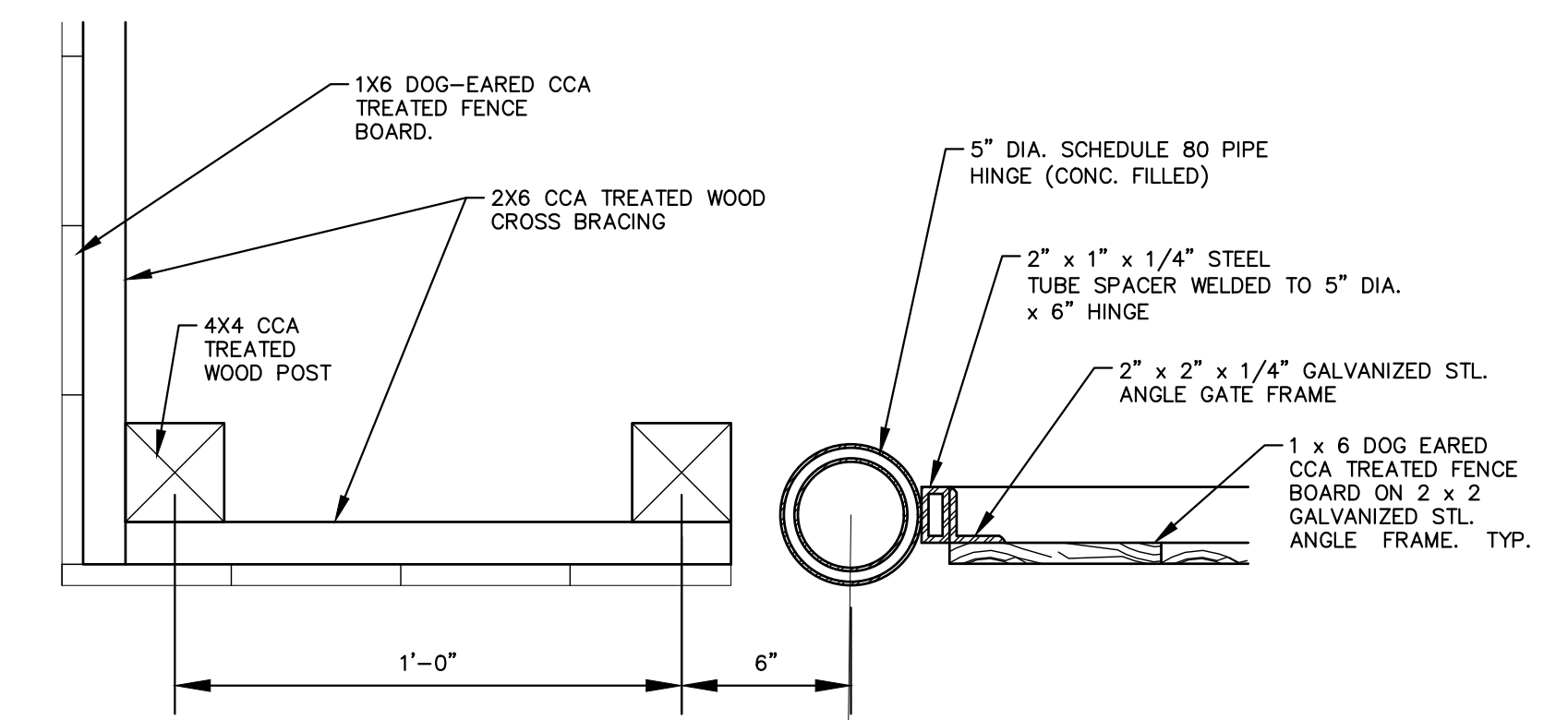
D DUMPSTER DUTY CONCRETE PAVEMENT
SCALE: NOT TO SCALE



F CONCRETE FOOTER FOR POST
SCALE: NOT TO SCALE

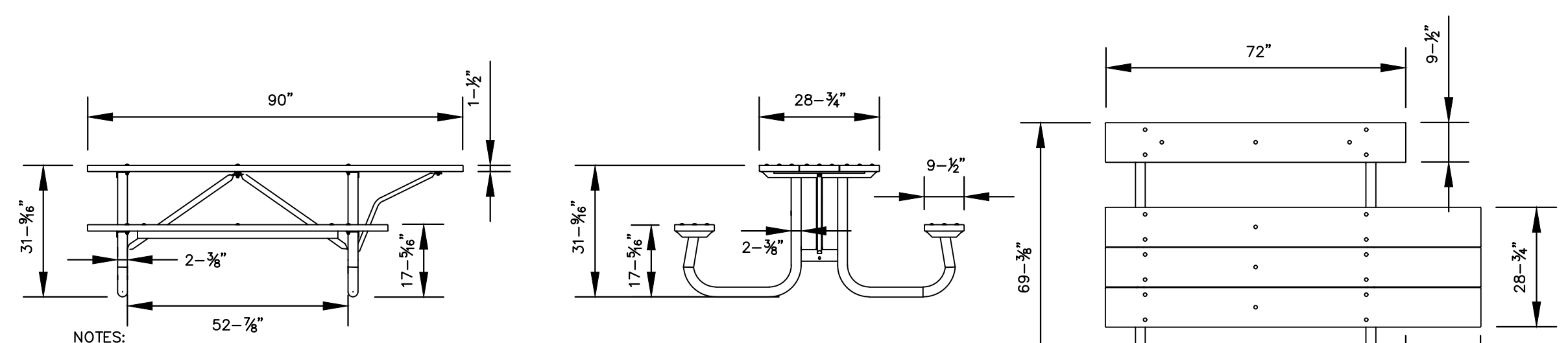


E BOLLARD
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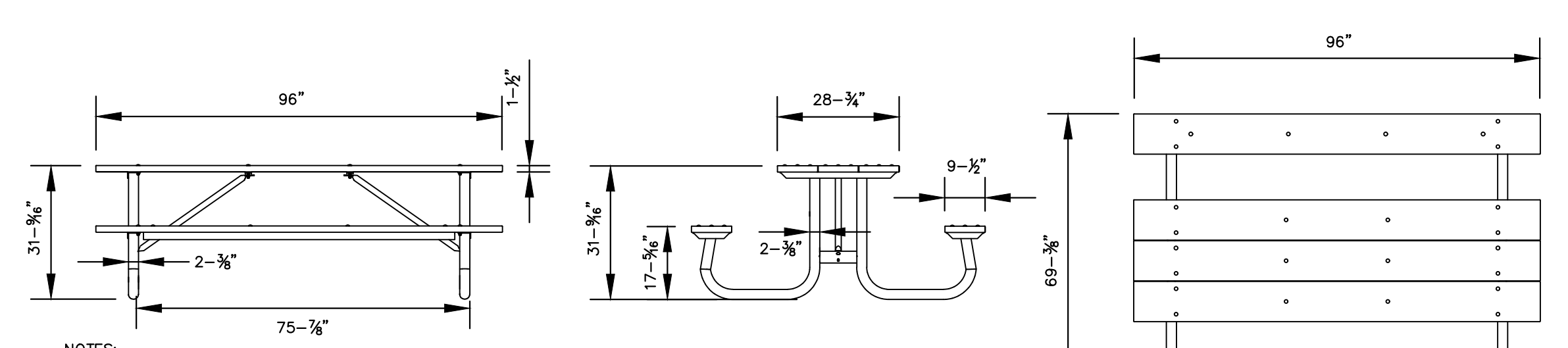


I CORNER PLAN DETAIL
SCALE: NOT TO SCALE

1 TRASH ENCLOSURE
SCALE: NOT TO SCALE



2 ADA PICNIC TABLE
SCALE: N.T.S.



3 PICNIC TABLE
SCALE: N.T.S.

NO.	REVISIONS	DATE	BY

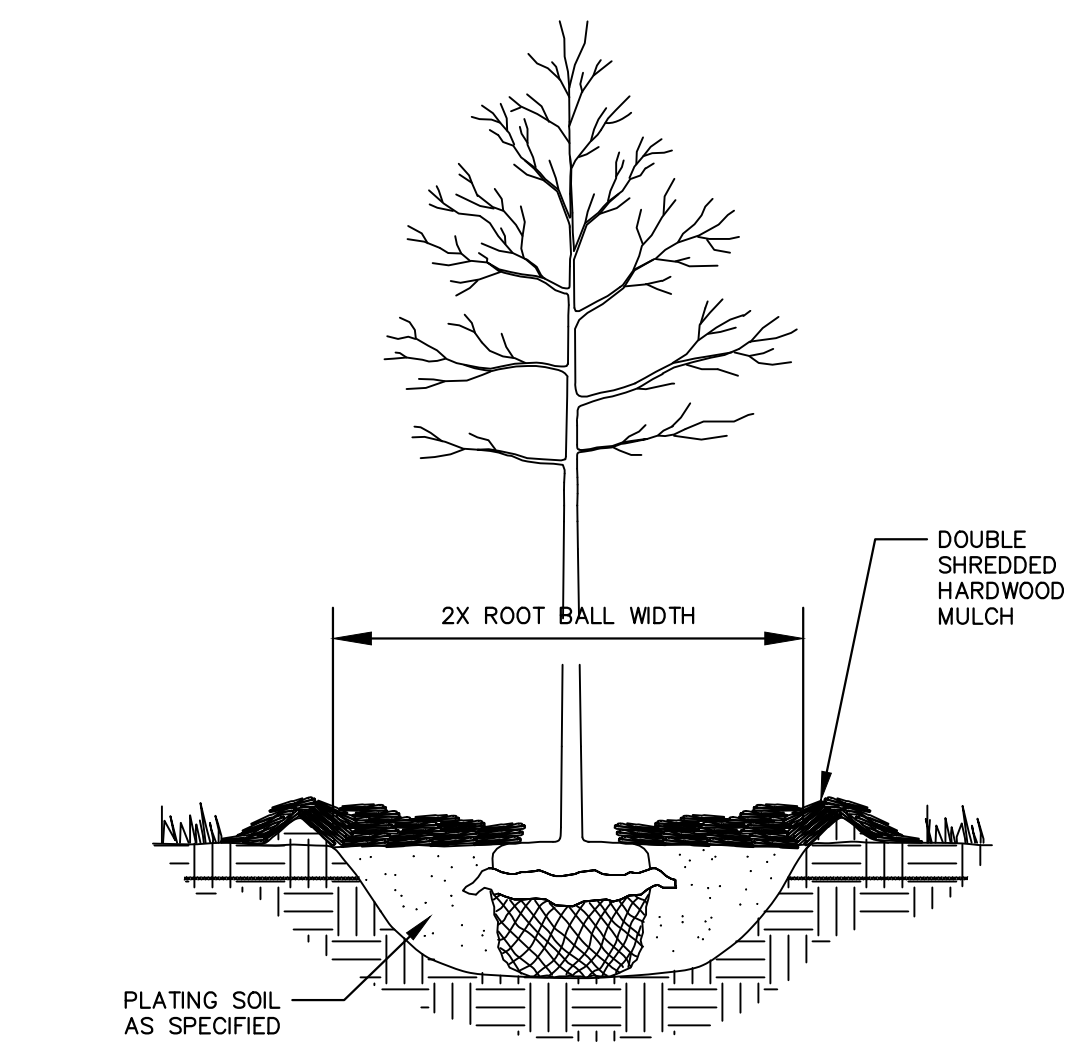
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CHECKED BY	KCH

CONSTRUCTION DETAILS

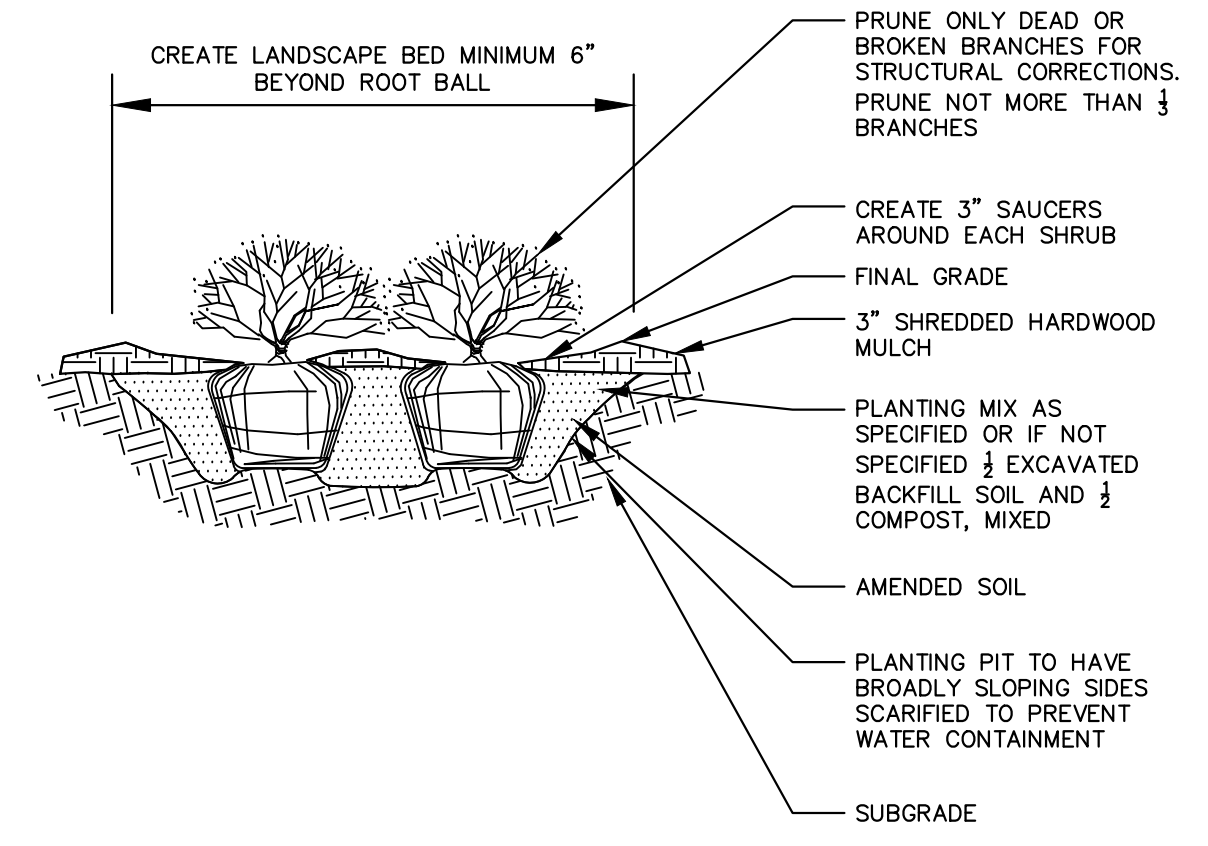
**PHASE I
HERON'S POINT AT
STADDENS
LANDING**

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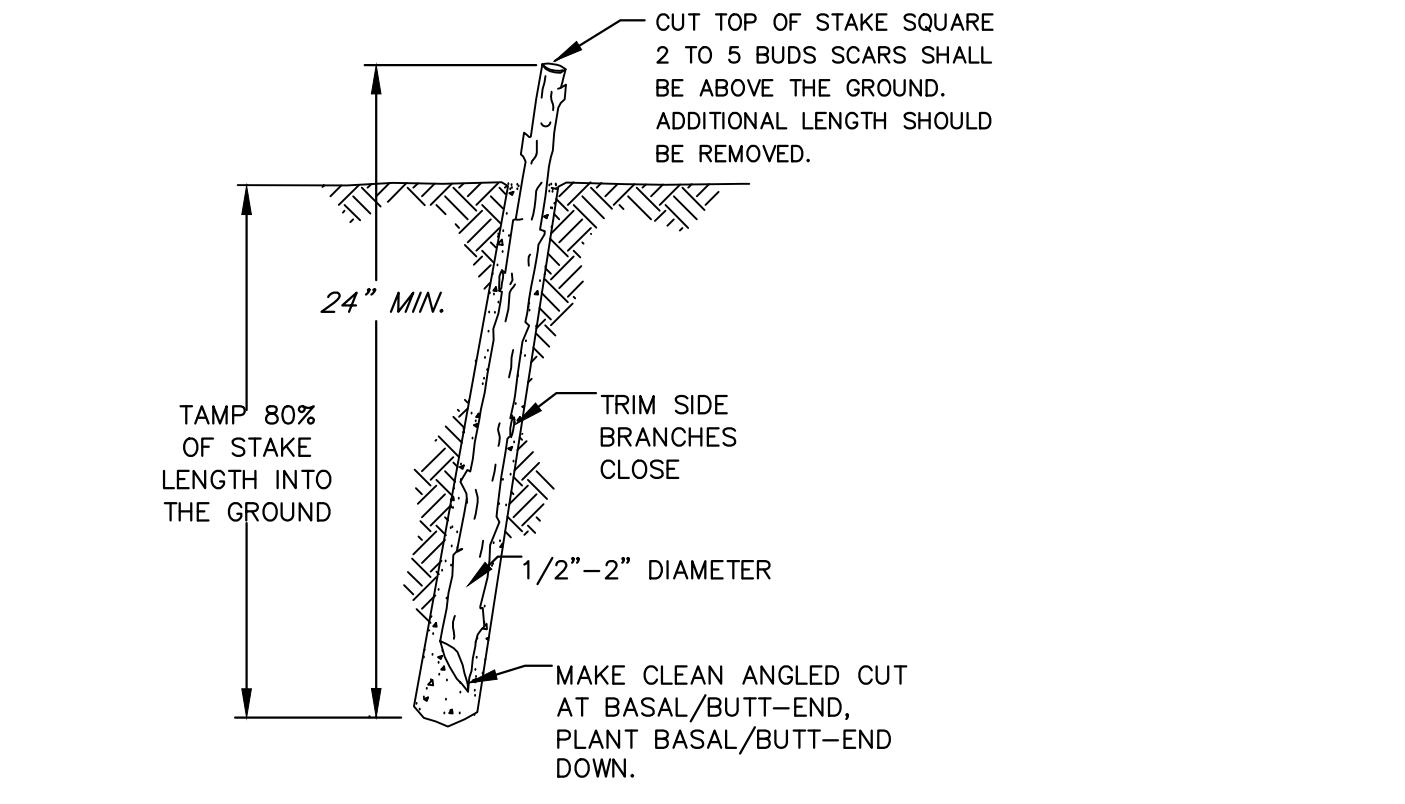
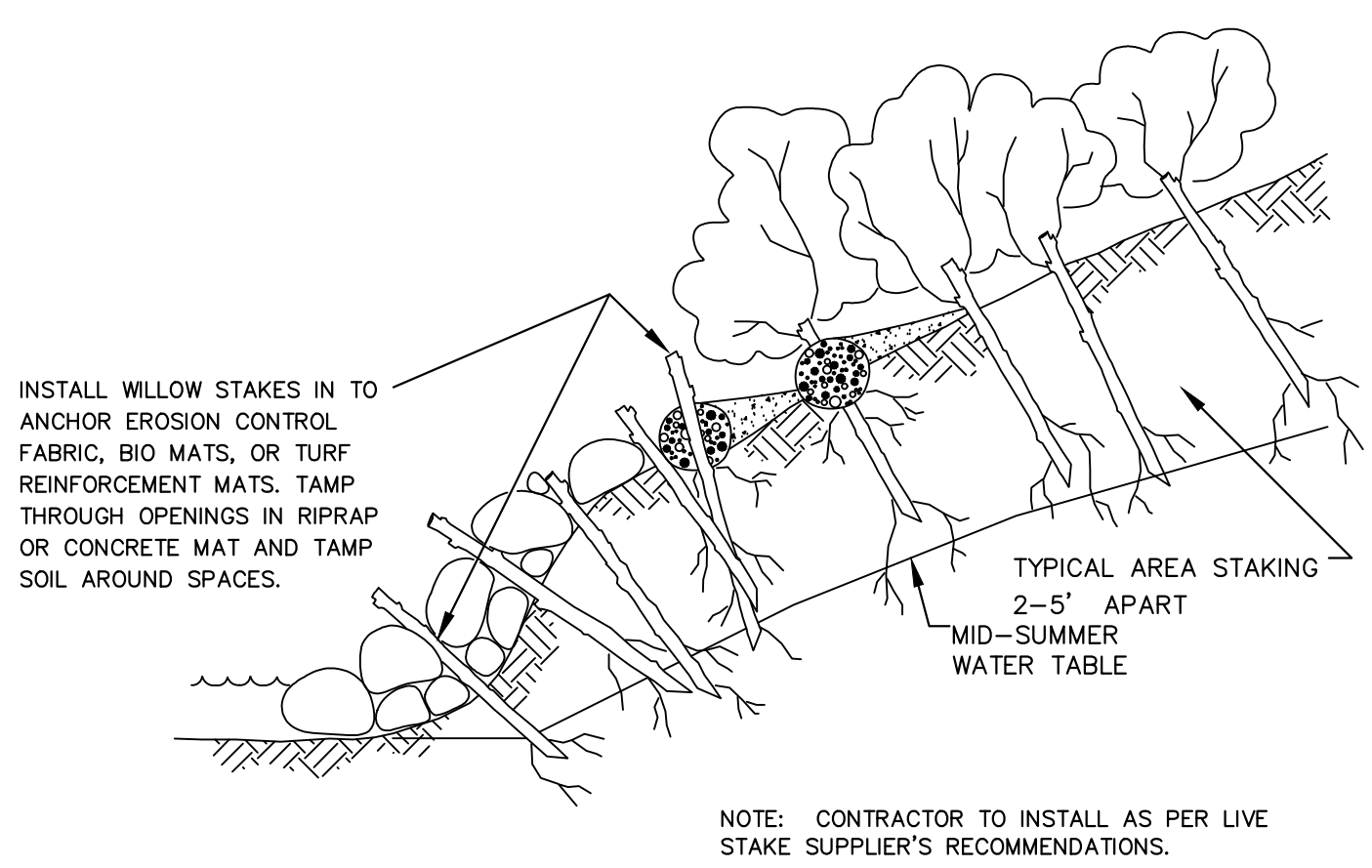
- NOTES:**
- SEE LANDSCAPE SHEET FOR ADDITIONAL REQUIREMENTS.
 - SCARIFY SIDES AND BOTTOM OF HOLE.
 - PROCEED WITH CORRECTIVE PRUNING.
 - SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
 - SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
 - BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOT BALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
 - PLUMB AND BACKFILL WITH PLANTING SOIL.
 - WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
 - BACK FILL VOIDS AND WATER SECOND TIME.
 - PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
 - FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

1 TREE PLANTING
SCALE: NOT TO SCALE

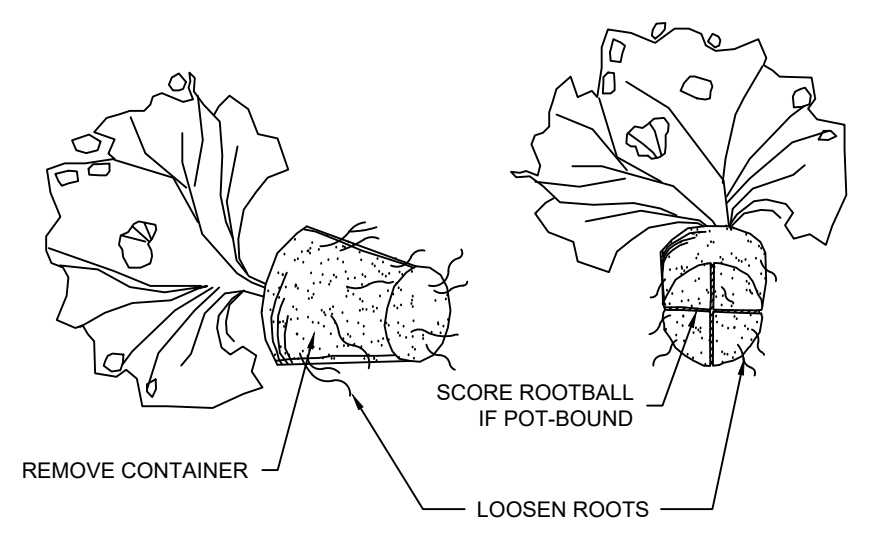


- NOTES:**
- SEE LANDSCAPE SHEET FOR ADDITIONAL REQUIREMENTS.
 - SET ROOTBALL OR CONTAINER ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL (CONTAINER) SHALL BE ONE INCH ABOVE SURROUNDING GRADE. FOR LARGER SHRUBS WITHIN PLANTING BED DIG A DEEPER PIT ONLY FOR THOSE SHRUBS.
 - REMOVE BURLAP FROM TOP HALF THE LENGTH OF ROOTBALL. TWINE AND (IF USED) SYNTHETIC MATERIAL SHALL BE REMOVED FROM PLANTING BED. FOR CONTAINER GROWN SHRUBS, REMOVE CONTAINER AND LOOSEN ROOTS PRIOR TO INSTALLATION.
 - REMOVE OR CORRECT GIRDLING ROOTS.
 - PLUMB AND BACKFILL WITH PLANTING MIX PER LANDSCAPE NOTES. WATER THOROUGHLY WITHIN TWO HOURS.
 - APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR SHRUBS EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.

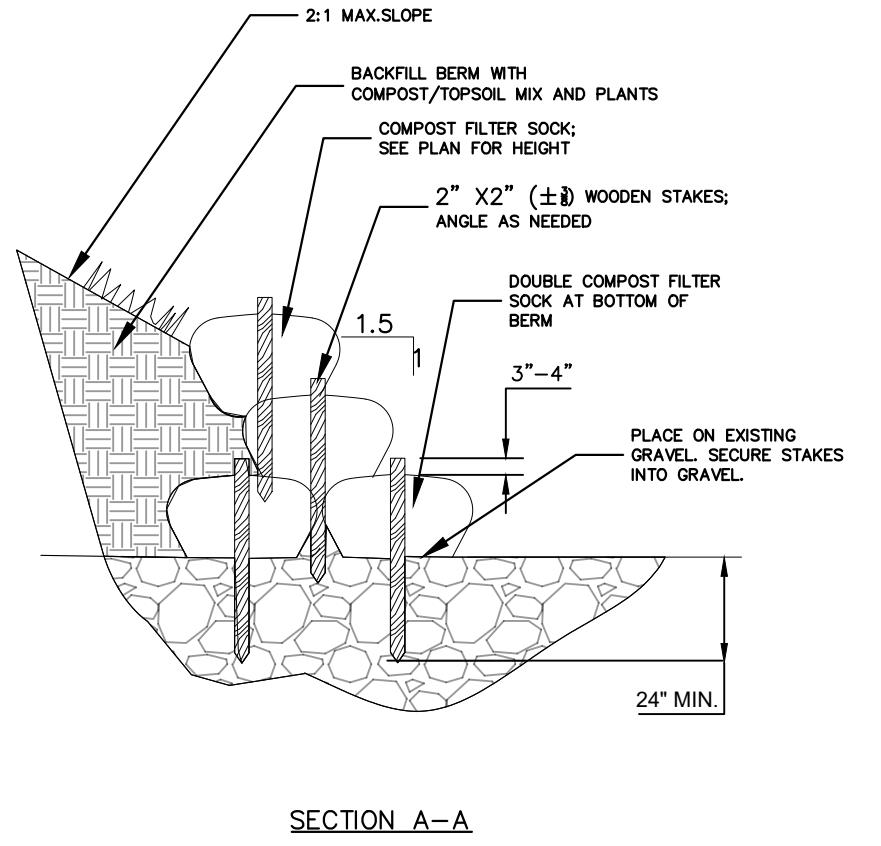
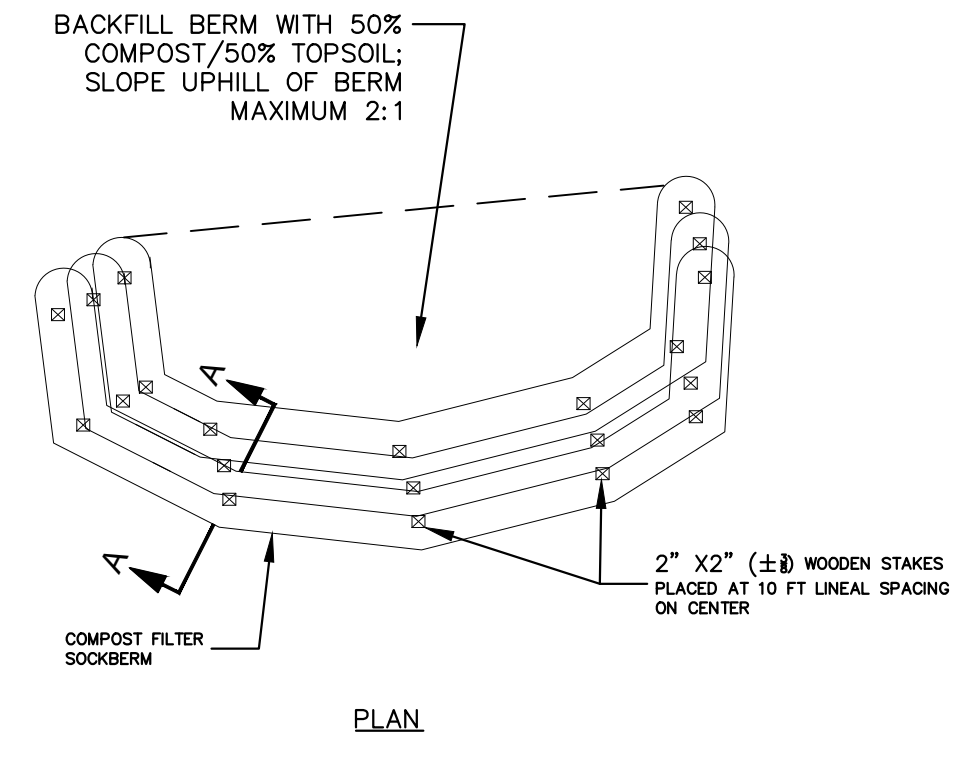
2 SHRUB PLANTING
SCALE: NOT TO SCALE



3 BANK STABILIZATION (LIVE STAKES)
SCALE: NOT TO SCALE



4 CONTAINER PLANT ROOTBALL TREATMENT
SCALE: NOT TO SCALE



- NOTES:**
- COMPOST FILTER SOCK FABRIC SHALL BE BLACK OR TAN NATURAL BIODEGRADABLE OR APPROVED EQUAL.
 - SEE PLANS FOR COMPOST FILTER SOCK BERM LOCATIONS, LENGTHS, AND HEIGHTS
 - PLANT COMPOST FILTER SOCK BERM BACKFILL AS PER SITE PLANS

COMPOST FILTER SOCK BERM - STACKED CHART	
BERM HEIGHT	STACKED COMPOST FILTER SOCK
6" TO 12"	1-12" SOCK
12" TO 18"	3-12" SOCKS
18" TO 24"	2-18" OR 4-12" SOCKS
24" TO 36"	2-24" OR 6-12" SOCKS

5 SILT/COMPOST SOCK BERM
SCALE: NOT TO SCALE

No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT	180096001
DATE	12/19/2025
SCALE	AS SHOWN
DESIGNED BY	KGH
DRAWN BY	AMM
CHECKED BY	KGH

CONSTRUCTION
 DETAILS

PHASE I
 HERON'S POINT AT
 STADDENS
 LANDING
LICKING CO OHIO

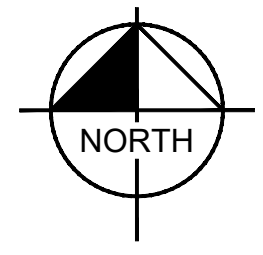
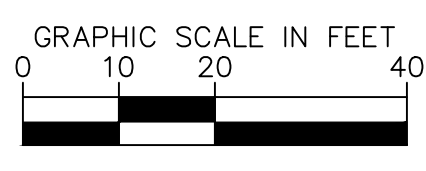
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PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
CANOPY TREES					
	AS	3	ACER SACCHARUM SUGAR MAPLE	B & B	2" CAL. MIN.
	AN	4	ACER X FREEMANII 'AUTUMN BLAZE' AUTUMN BLAZE MAPLE	B & B	2" CAL. MIN.
	FG	12	FAGUS GRANDIFOLIA AMERICAN BEECH	B & B	2" CAL. MIN.
	PO	11	PLATANUS OCCIDENTALIS AMERICAN SYCAMORE	B & B	2" CAL. MIN.
	QB	15	QUERCUS BICOLOR SWAMP WHITE OAK	B & B	2" CAL. MIN.
ORNAMENTAL TREES					
	AA	8	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B & B	1.5" CAL. MIN.
	BR	18	BETULA NIGRA RIVER BIRCH	CONT.	
SHRUBS					
	AM	12	ARONIA MELANOCARPA BLACK CHOKEBERRY	3 GAL.	
	AI	87	ASCLEPIAS INCARNATA SWAMP MILKWEED	1 GAL.	
	CO	5	CEPHALANTHUS OCCIDENTALIS BUTTONBUSH		
	LB	2	LINDERA BENZOIN SPICEBUSH		
	LC	49	LOBELIA CARDINALIS CARDINAL FLOWER		
	SN	10	SYMPHYOTRICHUM NOVAE-ANGLIAE NEW ENGLAND ASTER		
GROUND COVERS					
	PS	33,542 SF	OHIO FLOOD PLAIN NATIVE SEED MIX AS PER OHI PRAIRIE NURSERY, OR APPROVED EQUAL		



<p>Kimley»Horn</p> <p style="font-size: small;">© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 3875 EMBASSY PKWY., SUITE 280, AKRON, OH 44333 PHONE: 216-508-7775 WWW.KIMLEY-HORN.COM</p>	<p>PHASE I HERON'S POINT AT STADDENS LANDING</p> <p style="font-size: x-small;">LICKING CO OHIO</p>
KHA PROJECT 180096001 DATE 12/19/2025 SCALE AS SHOWN DESIGNED BY KGH DRAWN BY AMM CHECKED BY KGH	REVISIONS No. DATE BY
<p>LANDSCAPE PLAN</p> <p>SHEET NUMBER L1.1</p>	

Pictured By: Cad, Job Sheet, Sht-Kho, Layout: L1.2, February 24, 2026, 03:11:41pm, K:\A\LE_LA\180096001 -- LPO, Keyok Launch Design\2. Design\CAD\Plan Sheets\L1.0 LANDSCAPE PLAN -- 180096001.dwg
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GENERAL LANDSCAPE SPECIFICATIONS

- A. SCOPE OF WORK**
- THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APURTENANCE NECESSARY FOR THE COMPLETION OF THIS LANDSCAPING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
 - WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.
- B. PROTECTION OF EXISTING LANDSCAPING**
- ALL EXISTING PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO LANDSCAPING. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- C. PROTECTION OF EXISTING PLANT MATERIALS**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF FOUR HUNDRED DOLLARS (\$400) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.
- D. MATERIALS**
- GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)
COMPOST	ONE (1) CUBIC FOOT
 - PLANT MATERIALS
 - FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE SHOWN ON DRAWINGS AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPANTLING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSELY FOLIATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.
 - TREES FOR PLANTING IN RIGHT-OF-WAY (ROW) SHALL BE UNIFORM IN SIZE AND SHAPE.
 - NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE PROJECT LANDSCAPE ARCHITECT. ANY ROW TREES MUST BE APPROVED BY OFFICE OF THE CITY FORESTER OR CITY LANDSCAPE ARCHITECT.
 - PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO PROJECT LANDSCAPE ARCHITECT WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.
 - PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.
 - TREES WITH DAMAGED, CROOKED, OR MULTIPLE LEADERS; TIGHT VERTICAL BRANCHES WHERE BARK IS SQUEEZED BETWEEN TWO BRANCHES OR BETWEEN BRANCH AND TRUNK ("INCLUDED BARK"); CROSSING TRUNKS; CUT-OFF LIMBS MORE THAN ¼ INCH (19 MM) IN DIAMETER; OR WITH STEM GIRDLING ROOTS WILL BE REJECTED.
 - FURNISH TREES AND SHRUBS WITH ROOTS BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO ANSI Z60.1. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.
 - LABEL AT LEAST ONE PLANT OF EACH VARIETY, SIZE, AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF COMMON NAME AND FULL SCIENTIFIC NAME, INCLUDING GENUS AND SPECIES, INCLUDE NOMENCLATURE FOR HYBRID, VARIETY, OR CULTIVAR, IF APPLICABLE FOR THE PLANT AS SHOWN ON DRAWINGS.
 - IF FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF PLANTS IS SHOWN ON DRAWINGS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER THE LABELS TO ASSURE SYMMETRY IN PLANTING.
 - SOIL MIXTURES
 - CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW.
 - TOPSOIL. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF TOPSOIL FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
 - TOPSOIL SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEQOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER, HAVE A PH BETWEEN 5.5 AND 7.5, AND SOLUBLE SALTS LESS THAN 3.0 MMHOS/CM. SUBMIT SOIL SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
 - COMPOST USED FOR SOIL AMENDMENT SHOULD HAVE 35-65% ORGANIC MATTER BY DRY WEIGHT; WITH A PH BETWEEN 6.5 AND 8.5.
 - TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE WITH COMPOST, UNLESS EXISTING NATIVE SOIL DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
 - WATER
 - WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.
 - MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE) OR AS SHOWN IN PLANTING DETAILS. UNLESS OTHERWISE NOTED ON PLANS, MULCH SHALL BE DOUBLE SHREDDED HARDWOOD MULCH DARK BROWN FINES OR APPROVED EQUAL. DYED MULCH IS NOT ACCEPTABLE. SUBMIT SAMPLES TO PROJECT LANDSCAPE ARCHITECT FOR APPROVAL. MULCH SHALL BE PROVIDED OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE RING (6" MINIMUM) PLANTED UNDER THIS CONTRACT.
 - DIGGING AND HANDLING
 - ALL TREES SPECIFIED SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE APPROVED BY PROJECT LANDSCAPE ARCHITECT.
 - PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTFRU" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
 - B&B, AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE

- TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.
- J. CONTAINER GROWN STOCK**
- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
 - AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
 - ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- K. MATERIALS LIST**
- QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE PLANS SHALL GOVERN. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.
- L. FINE GRADING**
- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD, SEED, AND/OR MULCH DEPTH.
 - ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS, AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO PLANS FOR FINAL GRADES.
- M. PLANTING PROCEDURES**
- THE CONTRACTOR SHALL CLEAR WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, BUILDING MATERIALS, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM PLANTING AREAS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH EXISTING SOIL CONDITIONS IN PLANTING AREAS WHICH WILL ADVERSELY AFFECT THE PLANT GROWTH, THE CONTRACTOR SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
 - VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL OHIO (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED SUB-BASE FROM ALL PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH PLANTING MIX THAT HAS BEEN SPECIFIED.
 - FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
 - COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE SHALL BE EXERCISED.
 - WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS, IF APPLICABLE.
 - ALL PLANTING OPENINGS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH ANSI Z60.1-2014 AMERICAN STANDARD FOR NURSERY STOCK.
 - TEST ALL TREE OPENINGS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE (HOLE MUST DRAIN WITHIN 72 HOURS). NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, NOTIFY PROJECT LANDSCAPE ARCHITECT IMMEDIATELY.
 - TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN.
 - PRIOR TO EXCAVATION OF TREE OPENINGS, AN AREA EQUAL TO TWO TIMES THE DIAMETER OF THE ROOT BALL SHALL BE ROTO-TILLED TO A DEPTH EQUAL TO THE DEPTH OF THE ROOT BALL.
 - EXCAVATION OF TREE OPENINGS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.
 - IN CONTINUOUS LANDSCAPING BEDS, THE ROTO-TILLED PERIMETER SHOULD EXTEND TO A DISTANCE OF 6" BEYOND THE DIAMETER OF A SINGLE ROOT BALL. THE BED SHALL BE TILLED TO A DEPTH EQUAL TO THE ROOT BALL DEPTH PLUS 6".
 - PLANT PIT WALLS SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
 - TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
 - SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION 'E'.
 - ALL PLANT MATERIAL SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) INCH ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
 - FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE.
 - ALL BURLAP, ROPE, WIRES, BASKETS, ETC..., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
 - TREES SHALL BE PRUNED, IN ACCORDANCE WITH ANSI A-300, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST.
 - SHRUBS, PERENNIALS, AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOWN ON PLANS, WHICHEVER IS GREATER. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
 - TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
 - ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S RECOMMENDATIONS.
- O. EDGING**
- CONTRACTORS SHALL PERFORM V NOTCH EDGING ON ALL LANDSCAPING BEDS NOT IDENTIFIED TO RECEIVE STEEL, CONCRETE, PLASTIC, OR GRAVEL EDGING.
- P. CLEANUP**
- UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM CONTRACTORS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- Q. PLANT MATERIAL MAINTENANCE**
- ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, PRUNING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

- R. FINAL INSPECTION AND ACCEPTANCE OF WORK**
- FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.
- S. WARRANTY**
- THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SEED/SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
 - ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD (AS PER ODOT 659, 660, AND 661) SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.
 - IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH.

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KHA PROJECT 180096001			DATE 12/19/2025			SCALE AS SHOWN			DESIGNED BY KGH			DRAWN BY AMM			CHECKED BY KOH																				
LANDSCAPE DETAILS & NOTES PHASE I HERON'S POINT AT STADDENS LANDING OHIO LICKING CO																		© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 3975 EMBASSY PKWY., SUITE 280, AKRON, OH 44333 PHONE: 216-506-7775 WWW.KIMLEY-HORN.COM			No.	REVISIONS	DATE	BY											
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