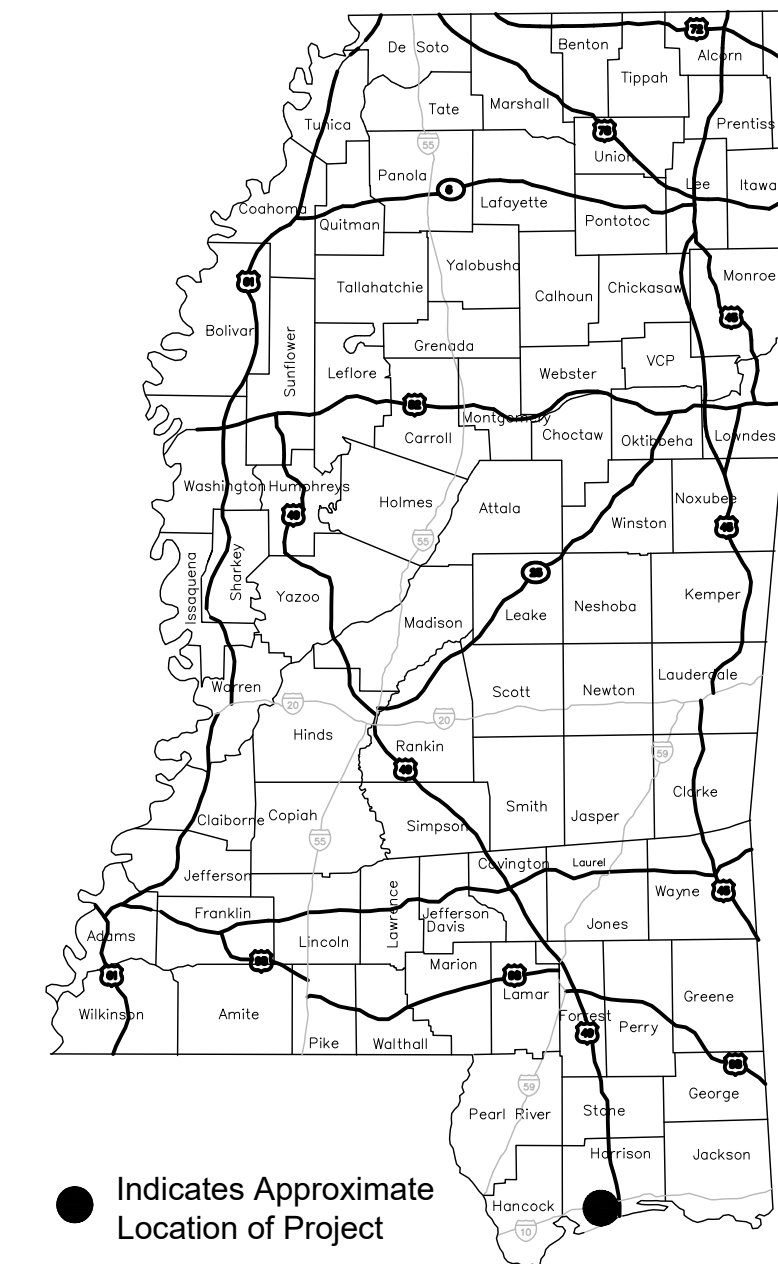
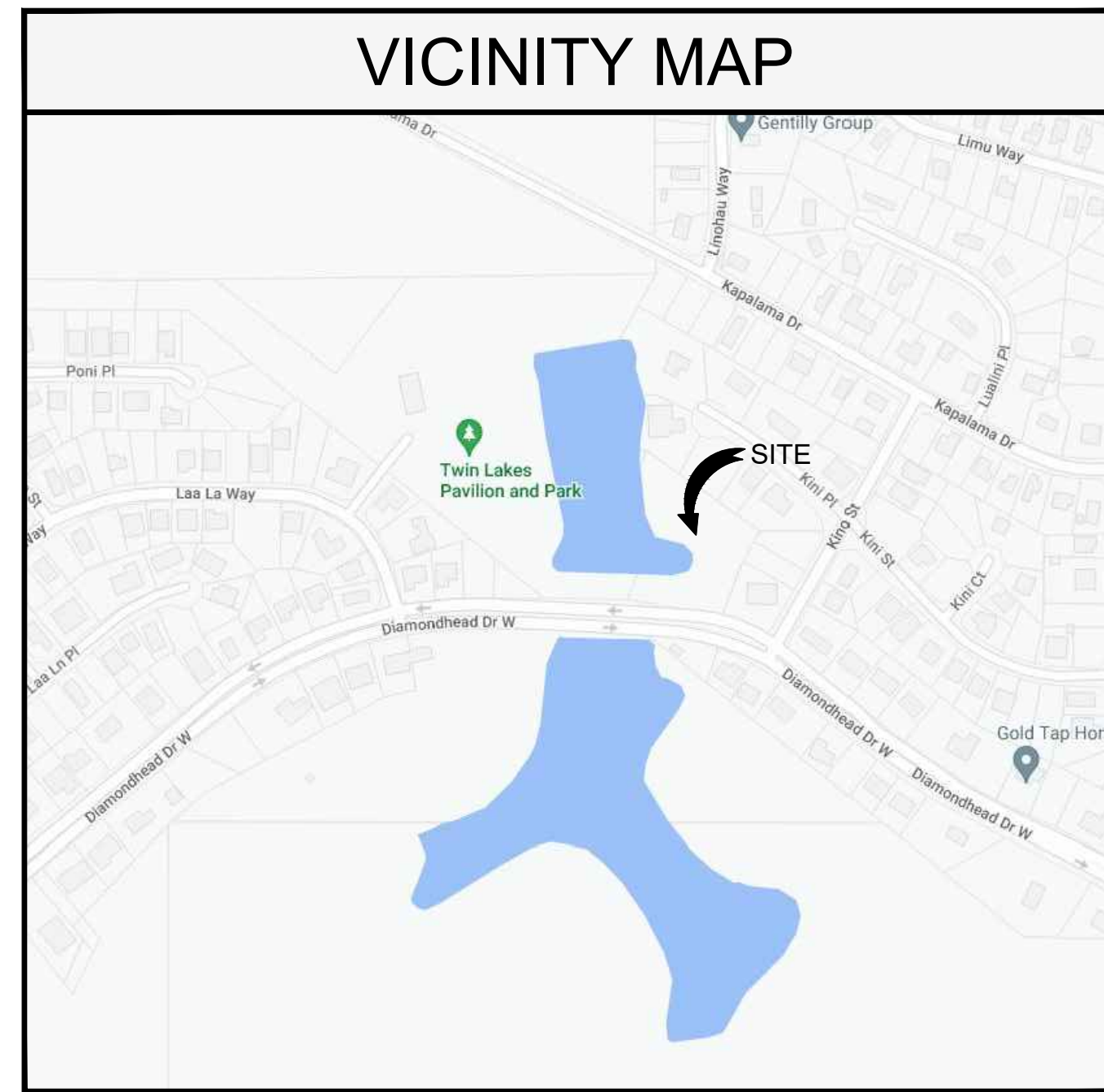


SITE CONSTRUCTION PLANS FOR CITY OF DIAMONDHEAD TWIN LAKES FISHING PIER AND TRAIL DIAMONDHEAD, MS

INDEX TO DRAWINGS

DRAWING NO.	DESCRIPTION
T001	TITLE SHEET
C001	GENERAL NOTES AND LEGENDS
C100	SITE DEMOLITION PLAN
C110	STORM WATER POLLUTION PREVENTION PLAN
C200	CIVIL SITE PLAN
C210	SITE LAYOUT PLAN
C220	JOINTING PLAN AND DETAILS
C300	SITE GRADING PLAN
C310	SITE DRAINAGE PLAN
C400	SITE UTILITY PLAN
C610	STORM WATER POLLUTION PREVENTION DETAILS
C620	CIVIL SITE DETAILS
C621	CIVIL SITE DETAILS
C622	CIVIL SITE DETAILS
C623	PIER DETAILS
C624	PIER DETAILS
C640	SITE GRADING AND DRAINAGE DETAILS
C650	SITE UTILITY DETAILS



LOCATION MAP



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CITY OF DIAMONDHEAD
TWIN LAKE FISHING PIER AND TRAIL
DIAMONDHEAD DRIVE WEST
DIAMONDHEAD, MS 39525

SCALE: AS INDICATED
PROJECT NO: 0275.20.004
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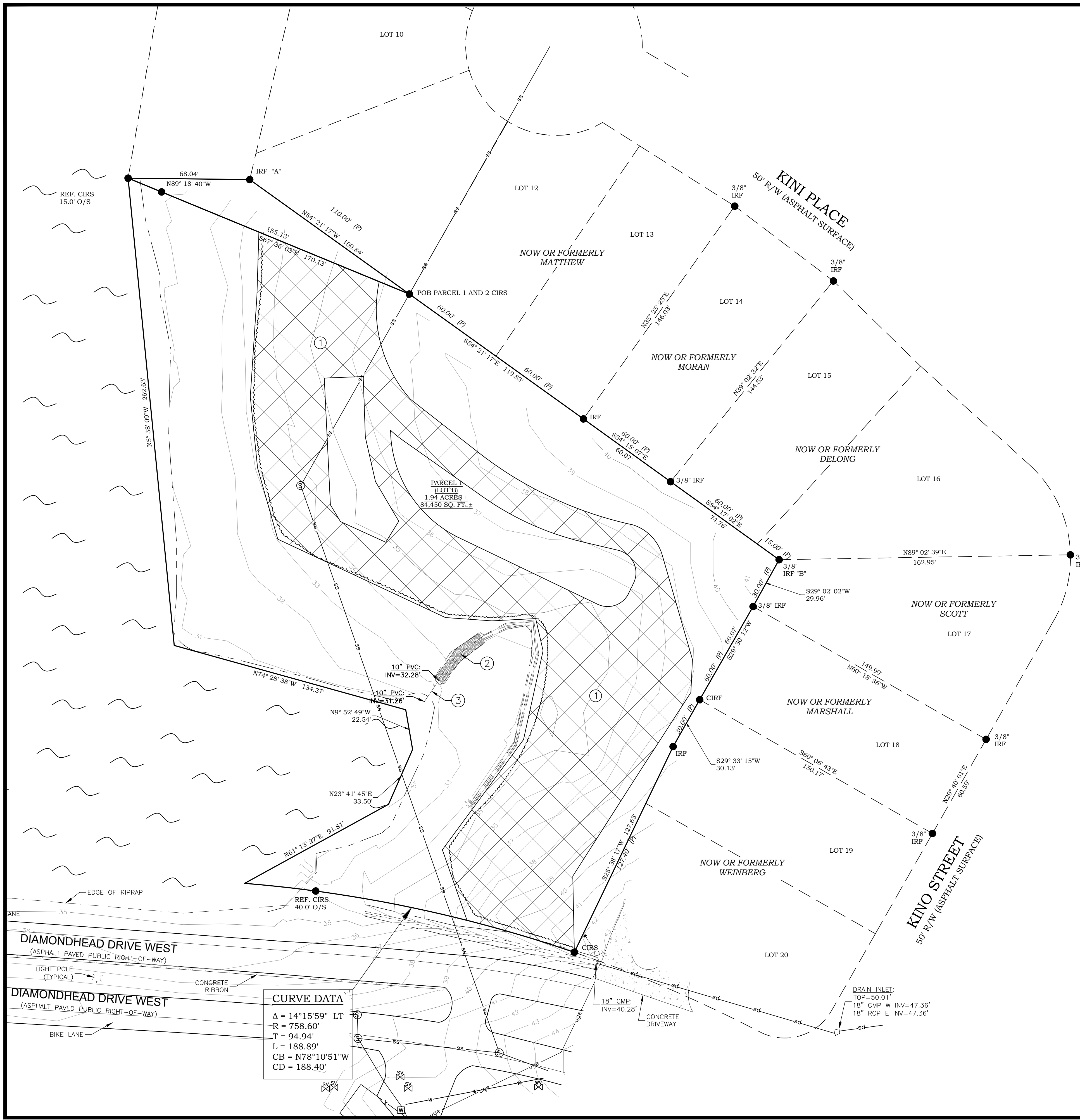
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T001

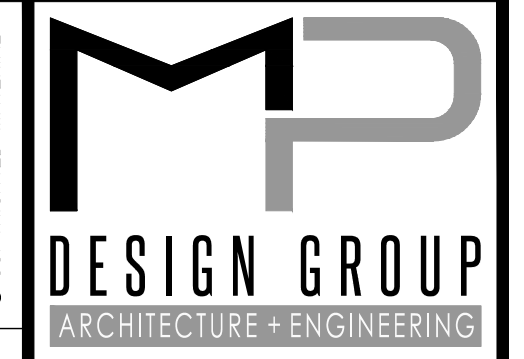
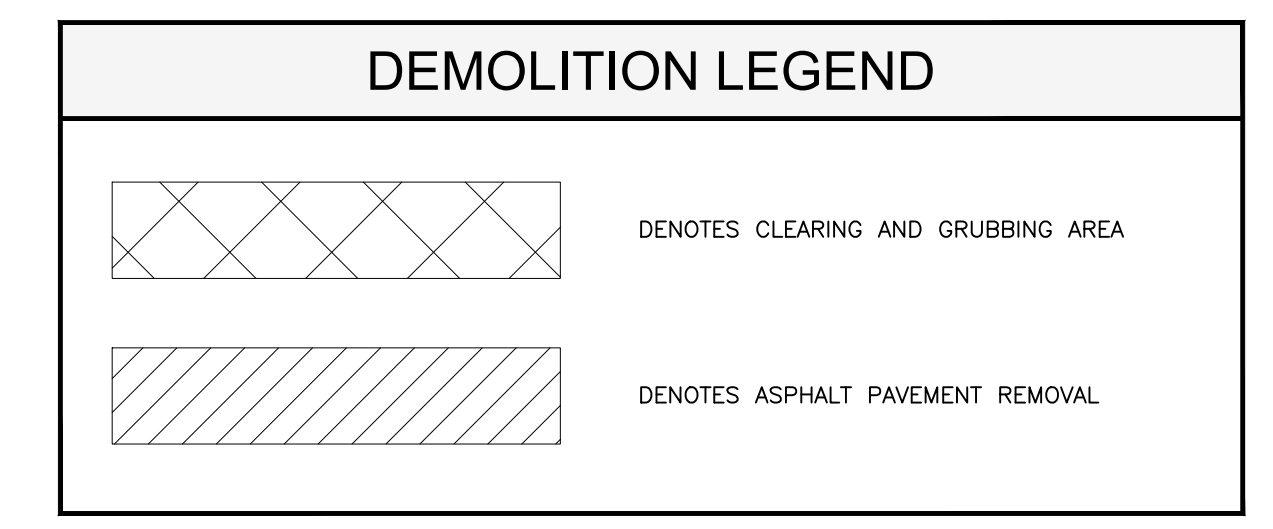
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CURVE DATA	
Δ	$14^{\circ}15'59"$ LT
R	758.60'
T	94.94'
L	188.89'
CB	$N78^{\circ}10'51"W$
CD	188.40'

- ### DEMOLITION NOTES
- CONTRACTOR SHALL CLEAR AND GRUB IN THE AREA OUTLINED. CONTRACTOR SHALL MAINTAIN AND PROTECT THE REMAINDER OF THE WOODED AREA IN IT'S EXISTING CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
 - CONTRACTOR SHALL REMOVE EXISTING RIP RAP. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
 - CONTRACTOR SHALL REMOVE EXISTING STORM DRAIN PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
 - CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY ALL DEBRIS RELATED TO THIS ITEM.



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CITY OF DIAMONDHEAD

TWIN LAKE FISHING PIER AND TRAIL

DIAMONDHEAD DRIVE WEST

DIAMONDHEAD, MS 39525

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PROJECT NO.:	0275.20.004
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EXISTING CONDITIONS AND SITE DEMOLITION PLAN

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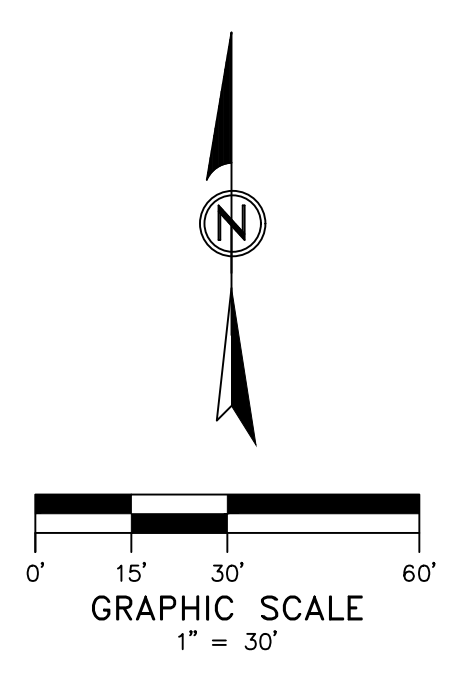
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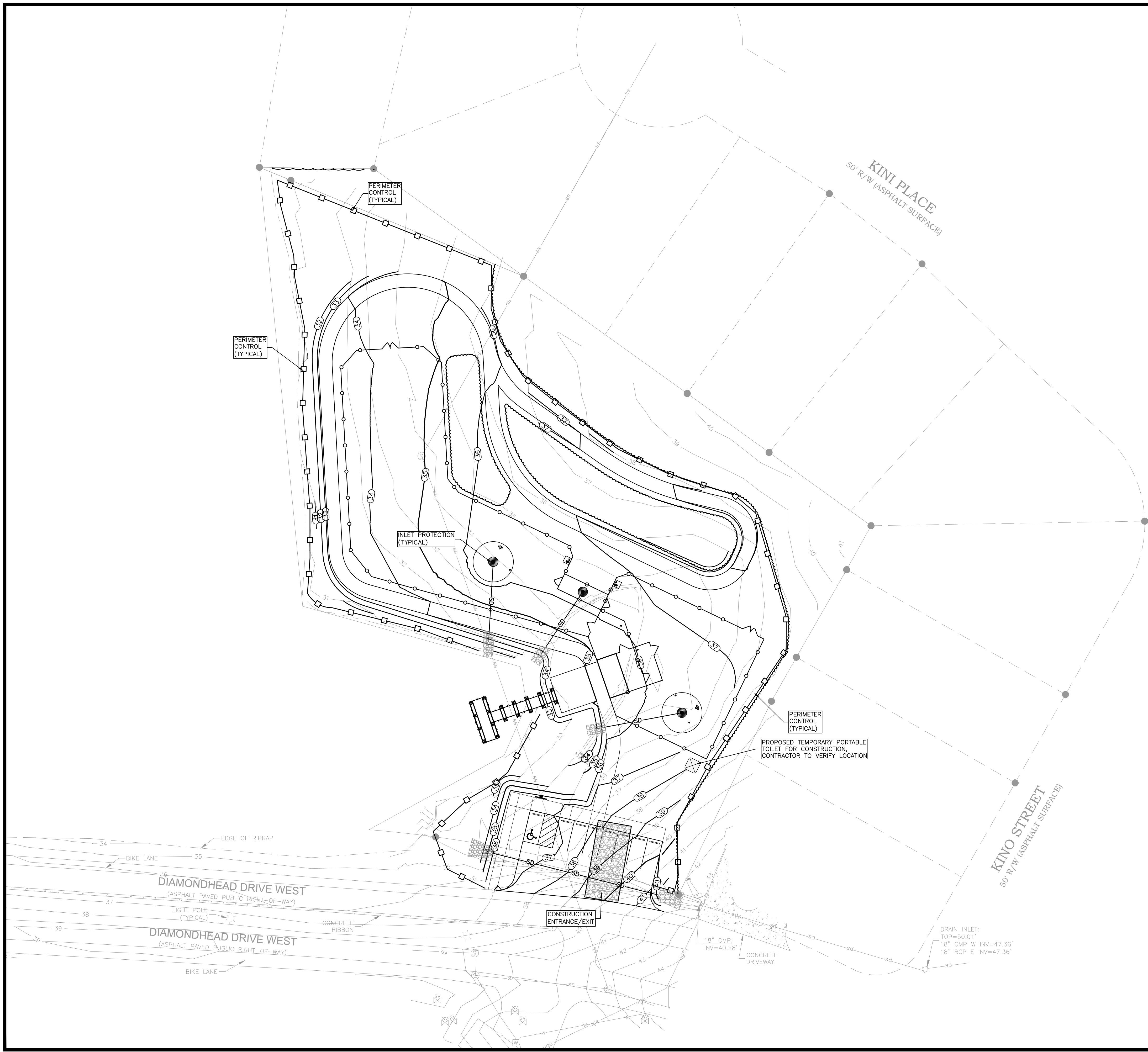
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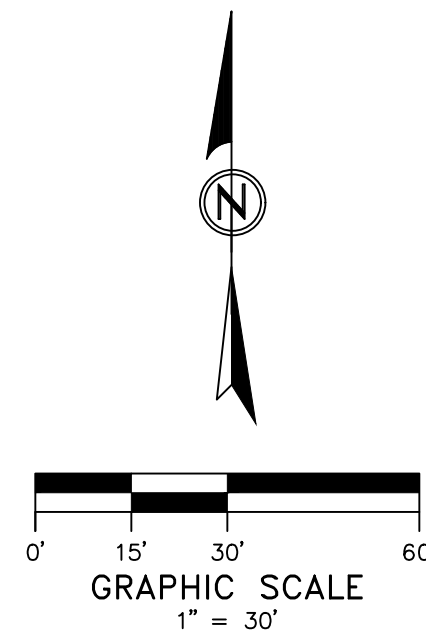
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SWPPP LEGEND	
	DENOTES PERIMETER CONTROL (SILT FENCE)
	DENOTES CONSTRUCTION ENTRANCE/EXIT



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STORM WATER POLLUTION PREVENTION PLAN

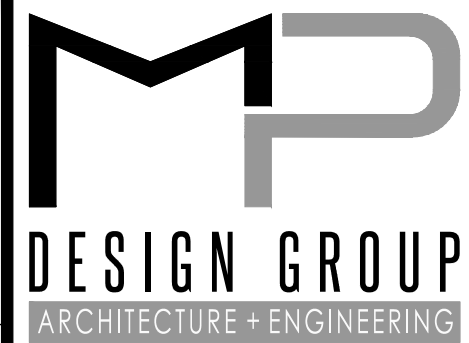
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CIVIL SITE PLAN

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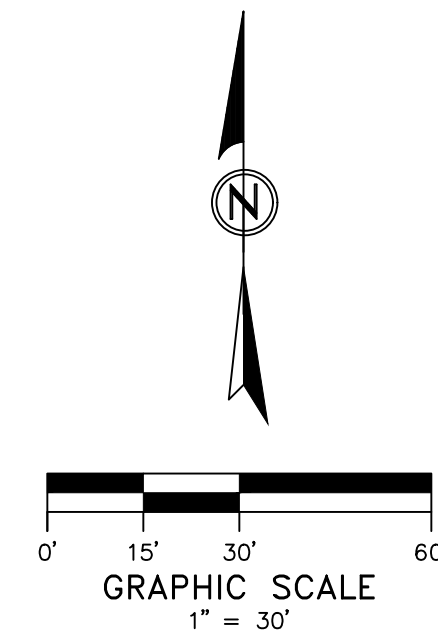
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LEGEND

- DENOTES CONCRETE PAD
- DENOTES CONCRETE SIDEWALK
- DENOTES GRAVEL PARKING AREA
- DENOTES 8' WIDE ASPHALT WALKING TRACK
- DENOTES 419 BERMUDA SOD
- DENOTES 5' TALL FENCE
- DENOTES PARKING SPACE COUNT

SITE NOTES

- ENTRY CONCRETE PAD (BASE BID), (ALTERNATE NO. 1, RIBBON CURB AND BRICK PAVERS IN LIEU OF ENTRY CONCRETE PAD)
- CONCRETE SIDEWALK
- HANDICAP PARKING SIGN
- HANDICAP VAN PARKING SIGN
- HANDICAP RAMP WITH TRUNCATED DOME
- HANDICAP PARKING SYMBOL AND STRIPING (SEE C620 FOR DETAILS)
- CONCRETE WHEEL STOP
- DOG WASH STATION (ALTERNATE NO. 2)
- DOG SPLASH PAD (ALTERNATE NO. 3)
- WATER FOUNTAIN ON 4'X4' CONCRETE PAD (HALSEY TAYLOR ENDURA II TUBULAR OUTDOOR FOUNTAIN MODEL NO. 4420DB OR APPROVED EQUAL)
- HITCHING POST (BARK PARK PBARK-480-BLUE LEASH POST OR APPROVED EQUAL)
- ENTRY BUILDING (ALTERNATE NO. 4)
- H2O FIDO FSF-FH-25 MIST HYDRANT OR APPROVED EQUAL, COLOR TO BE SELECTED BY OWNER, INCLUDED IN ALTERNATE NO. 3)
- H2O FIDO ECOPLAY SPLASH PAD ACTIVATOR-TIMER OR APPROVED EQUAL (INCLUDED IN ALTERNATE NO. 3)

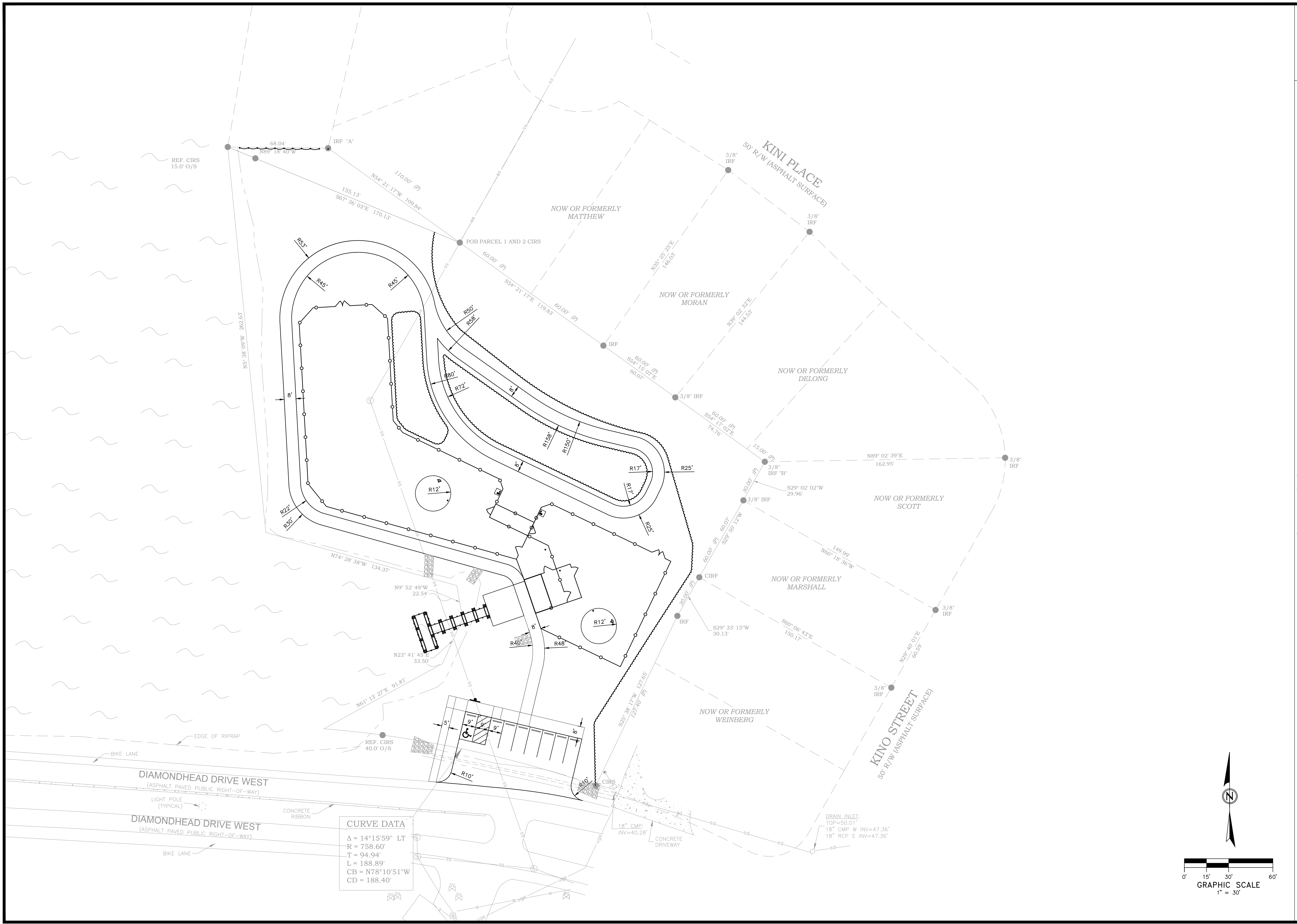


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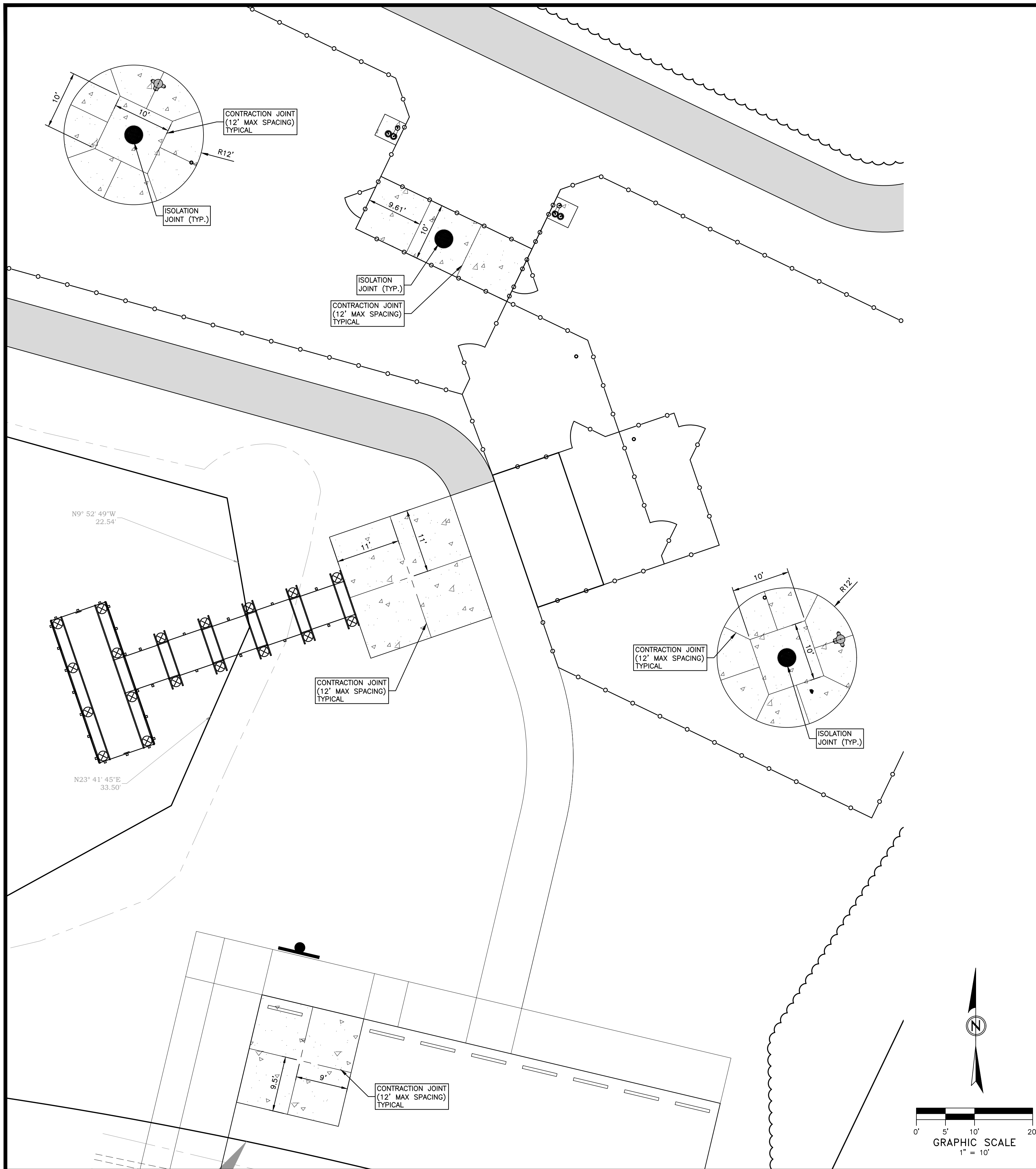
SITE LAYOUT PLAN

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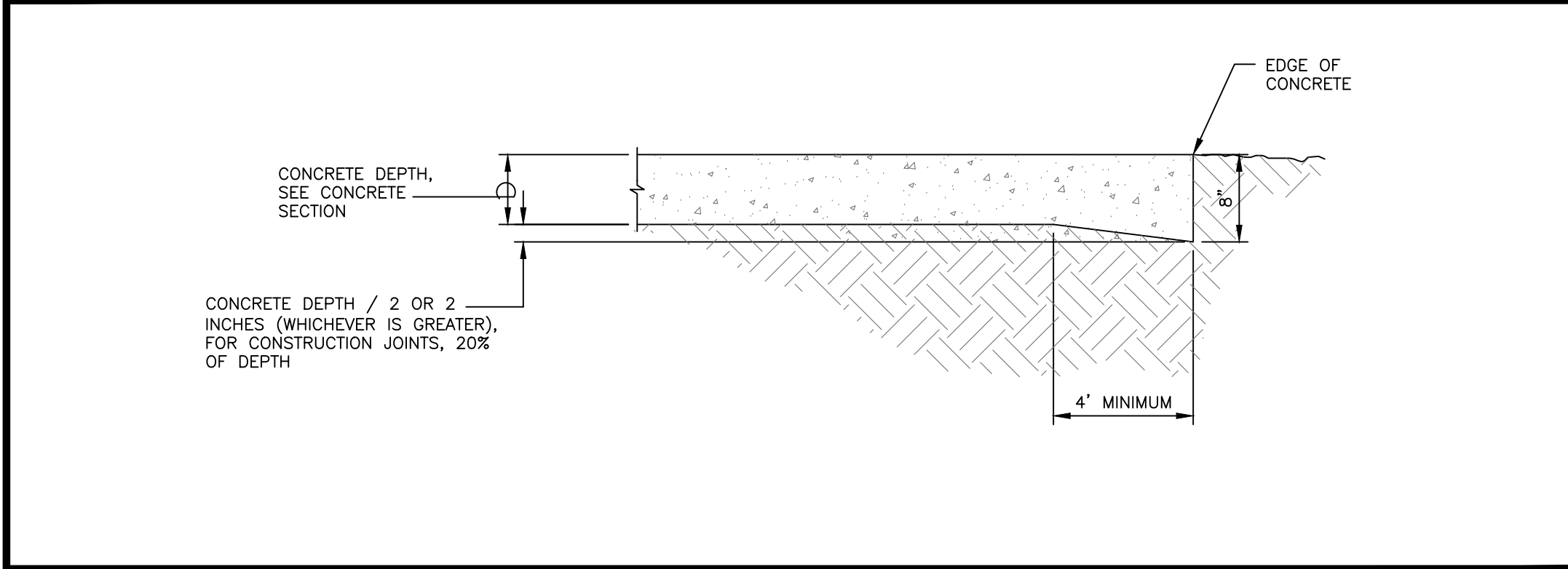
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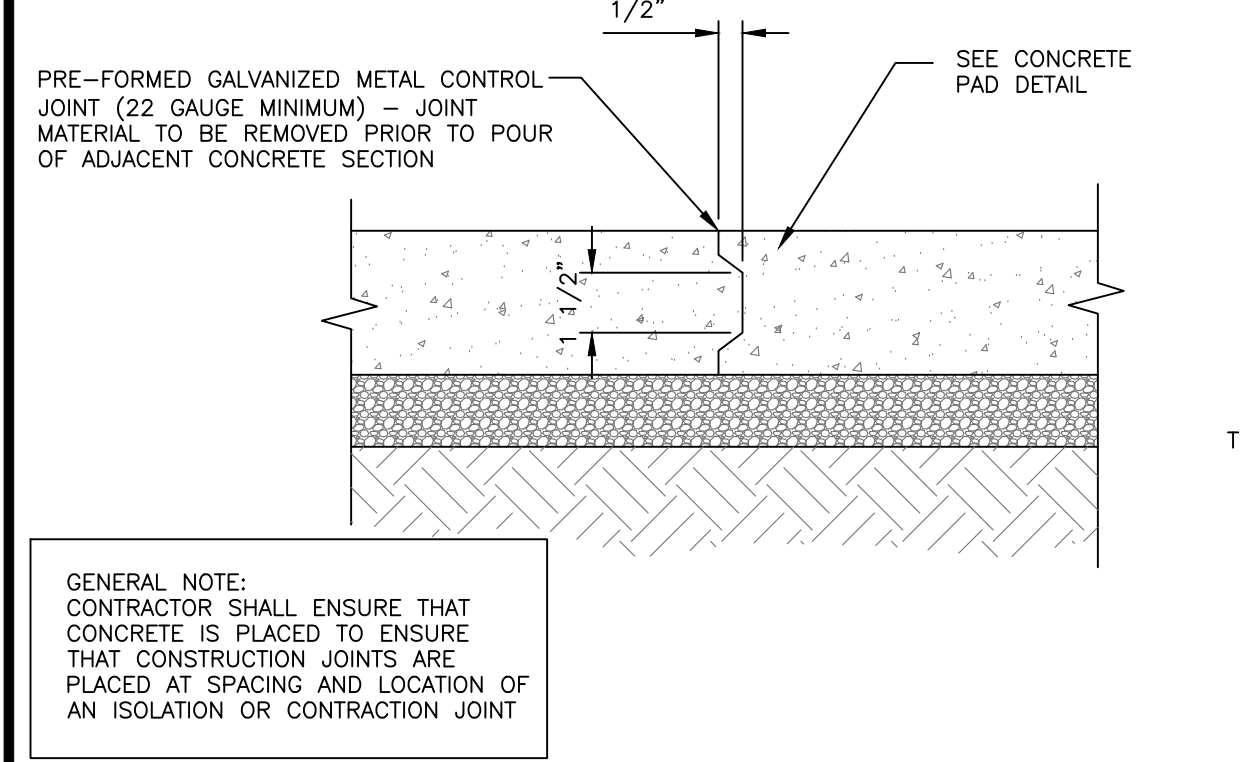
1 JOINTING PLAN

1. CONTRACTOR SHALL CONFORM TO THE PROVIDED JOINT LAYOUT PLAN. CONTRACTOR SHALL PLAN POURS TO ENSURE THAT CONSTRUCTION JOINTS ARE PROVIDED AT LOCATIONS OF ISOLATION OR CONTRACTION JOINTS.
2. ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330R-08 OR SECTION 3.07 IN THE NRMCA GUIDE SPECIFICATIONS.
3. ISOLATION JOINTS SHALL BE APPLIED AROUND IN-PAVEMENT AND FIXED STRUCTURES, SUCH AS DRAINAGE INLETS, MANHOLES, LIGHTING STRUCTURES, FOOTINGS, ETC. AND AS NOTED ON PLANS.
4. JOINTS ARE TO ENTER CURVED EDGES WITH PERPENDICULAR CUTS.
5. JOINTS SHALL BE CUT WITHIN TWELVE (12) HOURS OF FINISHING CONCRETE.
6. CONTRACTION JOINT CUTS SHALL BE 1/4 OF THE PAVEMENT THICKNESS DEEP.
7. CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT. LOCATION SHALL BE PLANNED AS NOTED IN NOTE 1 ABOVE.
8. CONTRACTOR SHALL PROVIDE A THICKENED PAVEMENT EDGE AT BOTH SIDES OF ALL CONSTRUCTION JOINTS. THICKENED EDGE SHALL BE 20% OF SLAB THICKNESS OR 2 INCHES, WHICHEVER IS GREATER.
9. PROVIDE THICKENED EDGE ALL ALL AREAS WHERE CONCRETE TERMINATES (i.e. INTERSECTIONS) AND WHERE SHOWN ON PLAN.
10. CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.
11. IF EDGE RESTRAINTS ARE NOT USED, THE BARS SHOULD BE PLACED AT THE FIRST LONGITUDINAL JOINT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ISOLATION JOINTS AROUND ALL IN PAVEMENT AND FIXED STRUCTURES AS NOTED ABOVE WHETHER THEIR LOCATION IS SHOWN ON THIS PLAN OR NOT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAID JOINTS IRREGARDLESS OF WHETHER STRUCTURES ARE SHOWN ON THIS PLAN.
13. A PREFORMED JOINT FILLER MATERIAL OCCUPIES THE GAP BETWEEN THE STRUCTURE AND PAVEMENT.
14. FILLER MATERIAL IS A BITUMEN - TREATED FIBER BOARD, (SEE DETAIL)
15. JOINT SEALER IS APPLIED ABOVE THE FILLER MATERIAL AND AT EACH CONTRACTION JOINT.
16. MAXIMUM JOINT SPACING FOR STANDARD DUTY PAVEMENT IS 12.5 FEET AND 15 FEET FOR HEAVY DUTY PAVEMENT IN ANY DIRECTION.
17. RECOMMENDED JOINT PLAN MUST BE REVISED TO ACCOMMODATE CONSTRUCTION JOINTS.

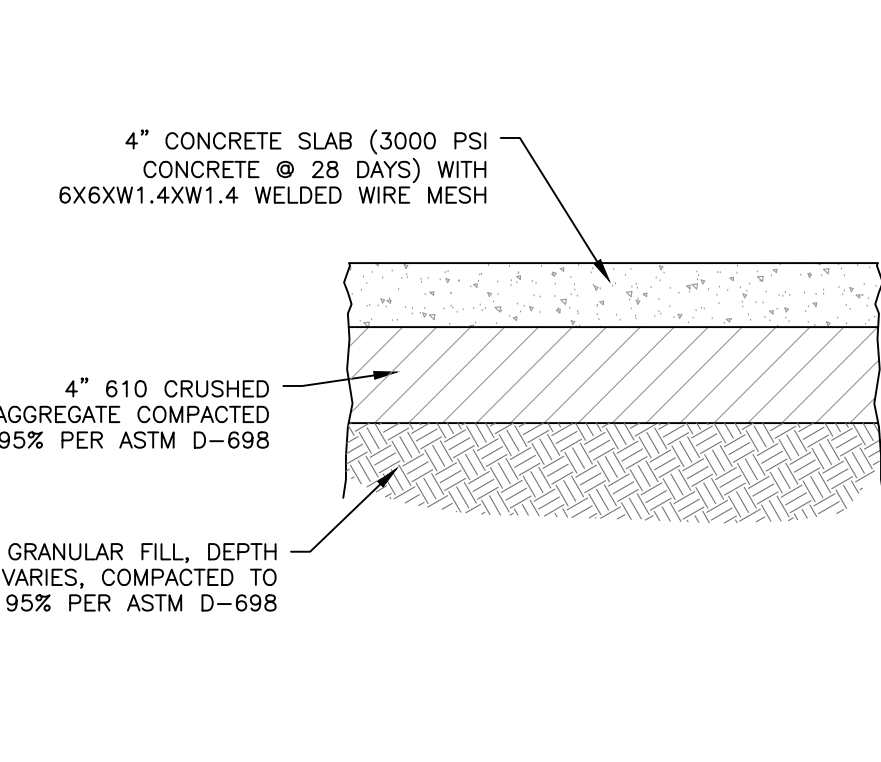
2 GENERAL JOINTING NOTES



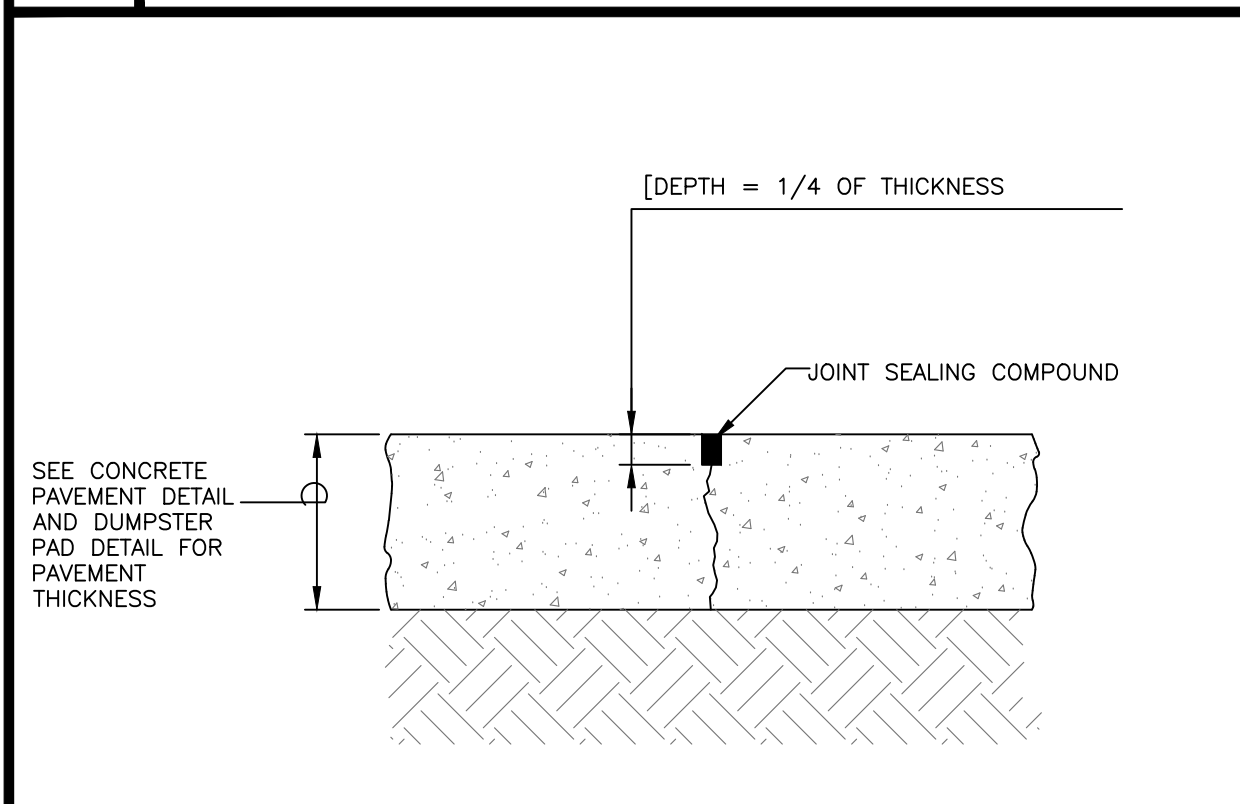
3 THICKENED SLAB DETAIL NOT TO SCALE



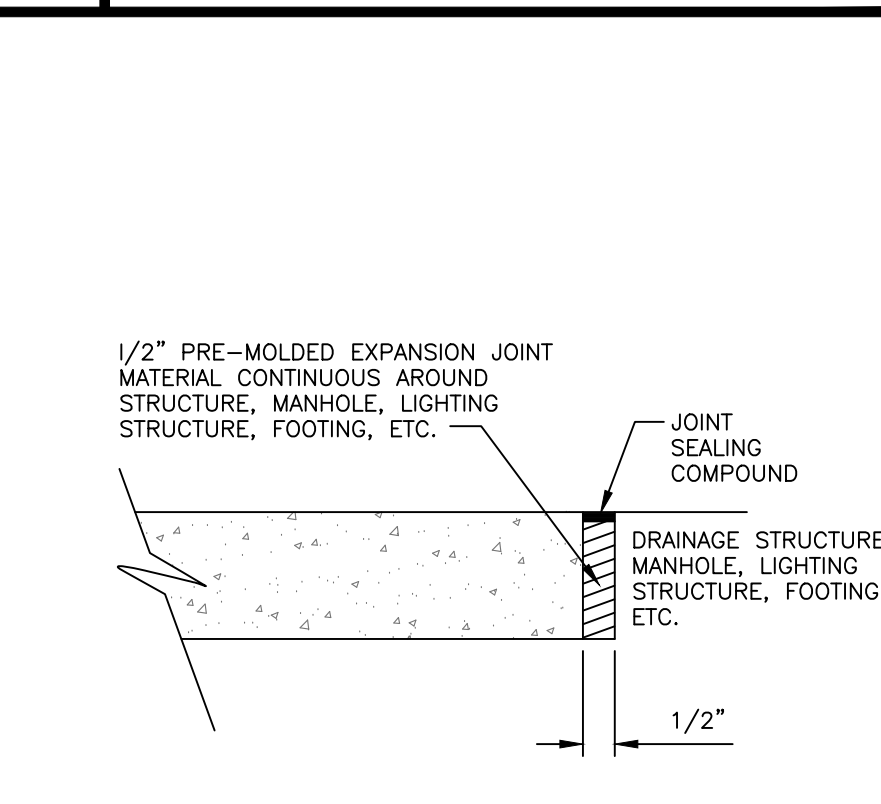
4 PRE-FORMED GALVANIZED METAL CONSTRUCTION JOINT DETAIL NOT TO SCALE



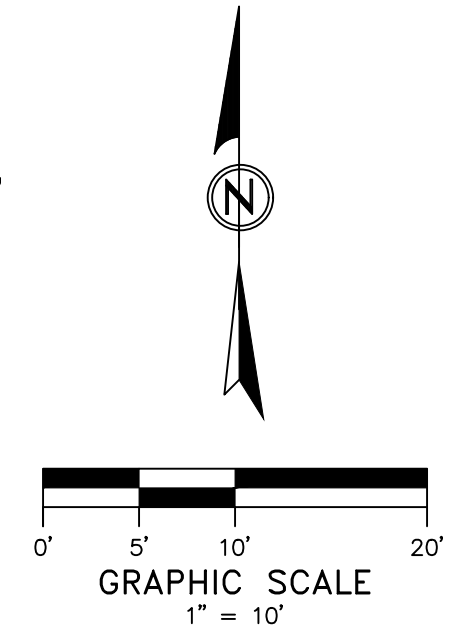
5 CONCRETE PAD DETAIL NOT TO SCALE



6 CONTRACTION JOINT DETAIL NOT TO SCALE



7 ISOLATION JOINT DETAIL NOT TO SCALE



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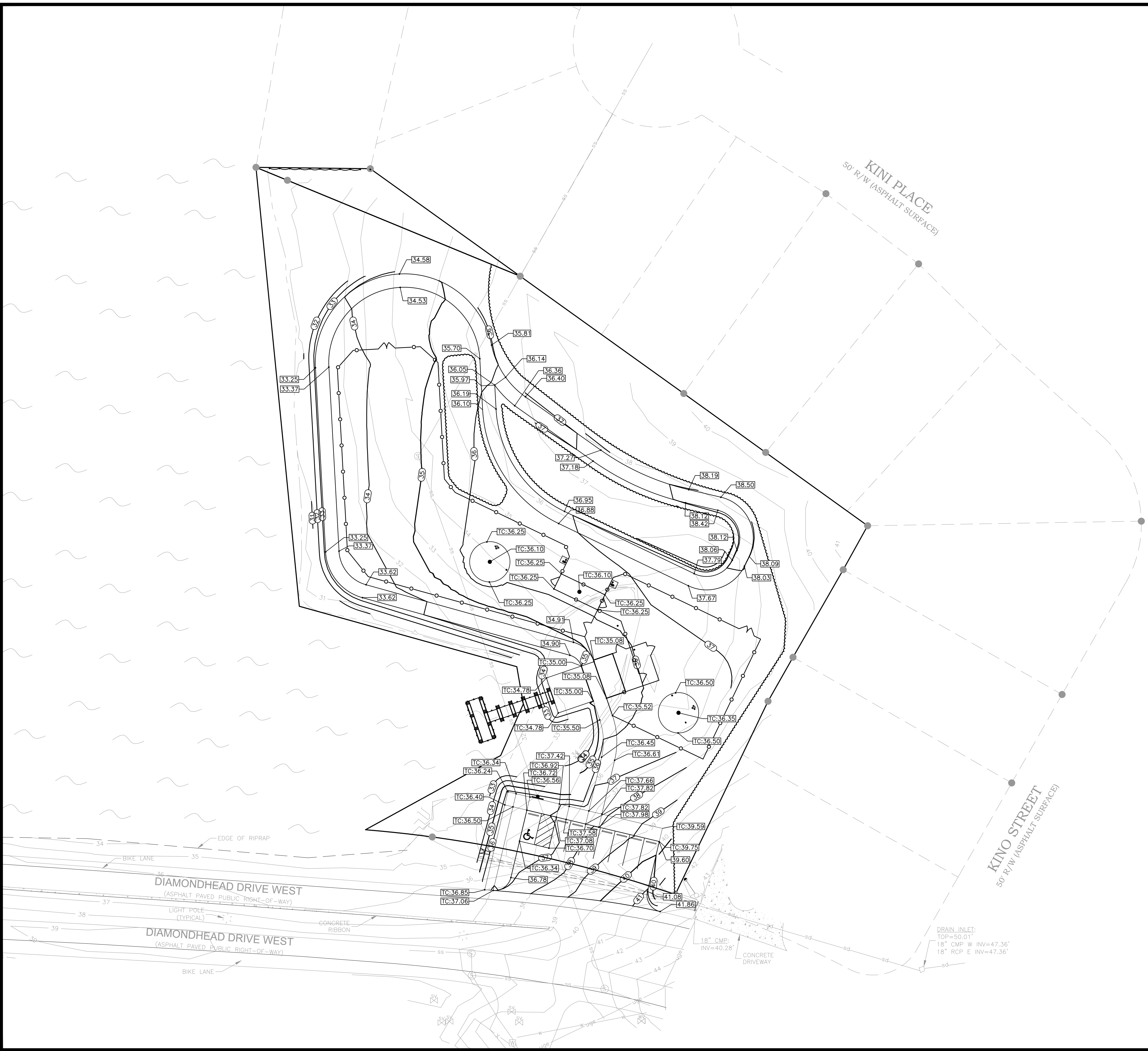
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JOINTING PLAN AND DETAILS

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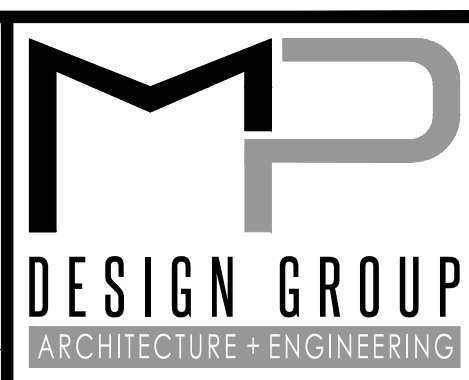
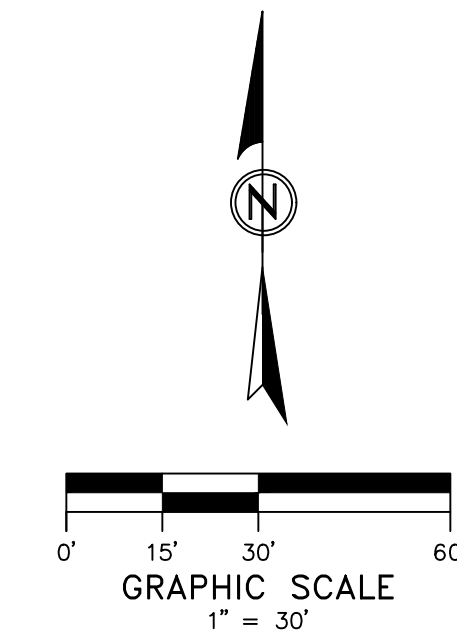
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GRADING LEGEND

- 1185.50 • DENOTES PROPOSED SPOT ELEVATIONS
- TC:1185.50 • DENOTES TOP OF CURB/SIDEWALK ELEVATION
- 30 — DENOTES EXISTING GRADE CONTOUR
- 30 DENOTES FINISHED GRADE CONTOUR
- ← -3.50% DENOTES WATERSHED FLOW DIRECTION
- - RL - - DENOTES GRADING RIDGE LINE



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SITE GRADING PLAN

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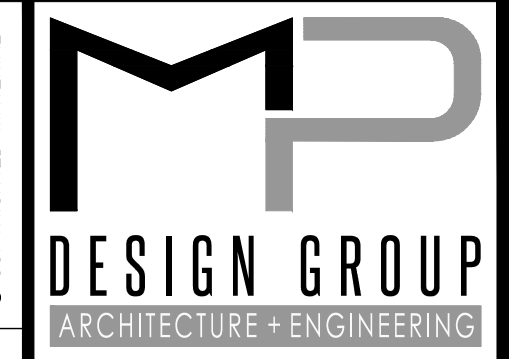
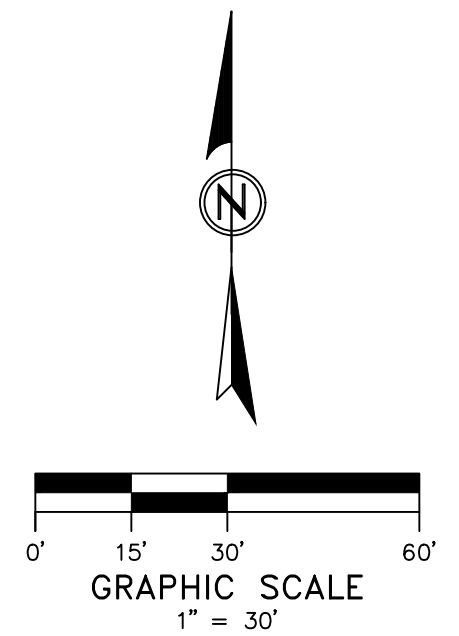
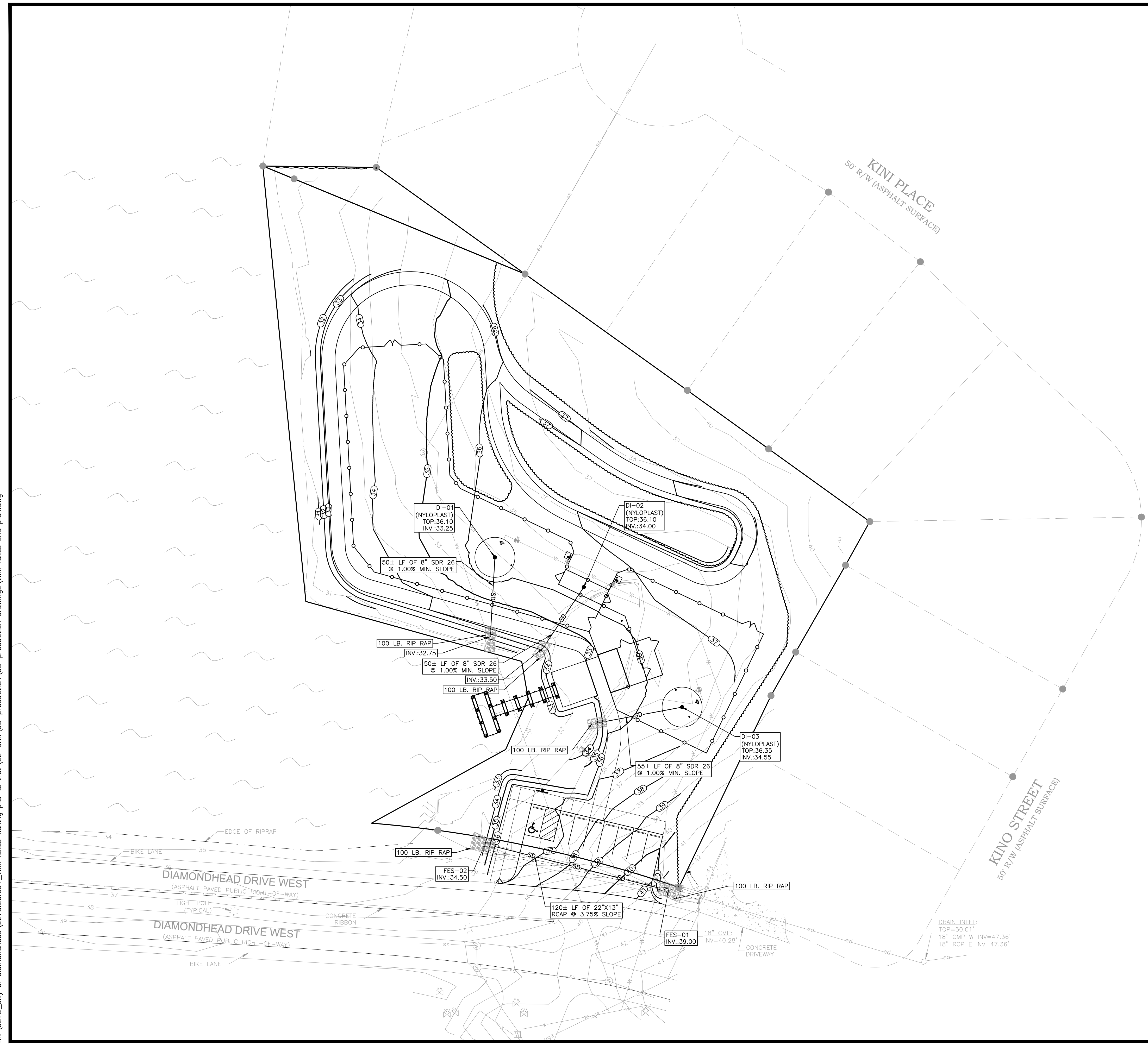
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GRADING LEGEND	
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	DENOTES FINISHED GRADE CONTOUR



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SITE DRAINAGE PLAN

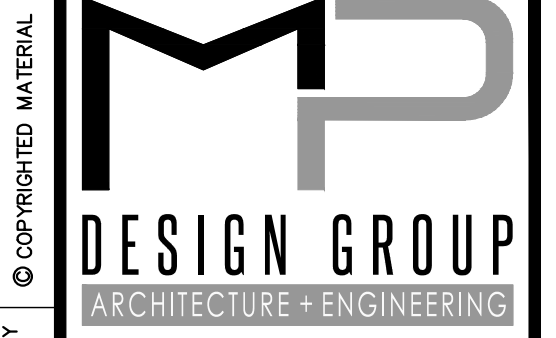
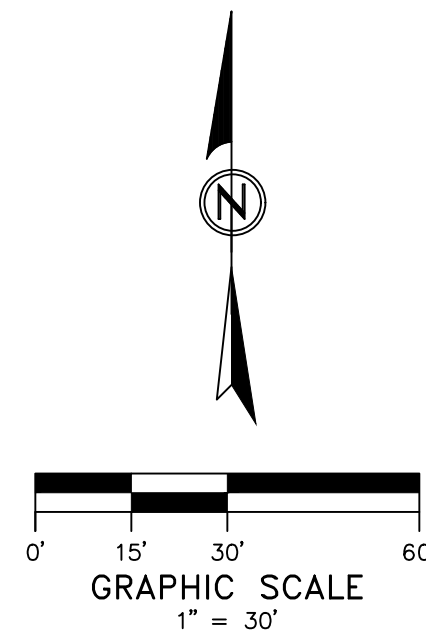
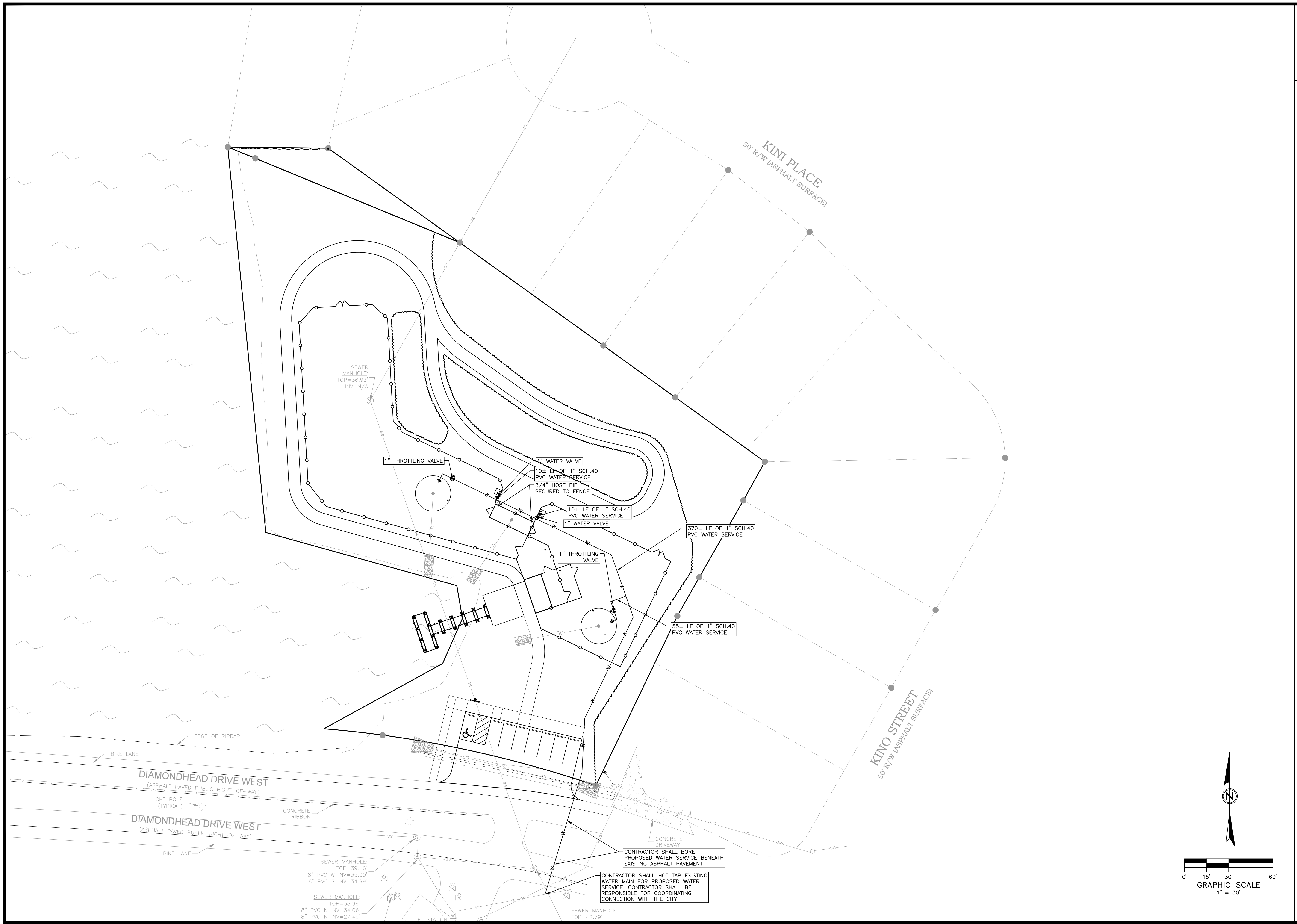
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CITY OF DIAMONDHEAD
 TWIN LAKE FISHING PIER AND TRAIL
 DIAMONDHEAD DRIVE WEST
 DIAMONDHEAD, MS 39525

SCALE: AS INDICATED
 PROJECT NO: 0275.20.004
 DRAWN BY: JGP
 CHECKED BY: GWK

SITE UTILITY PLAN

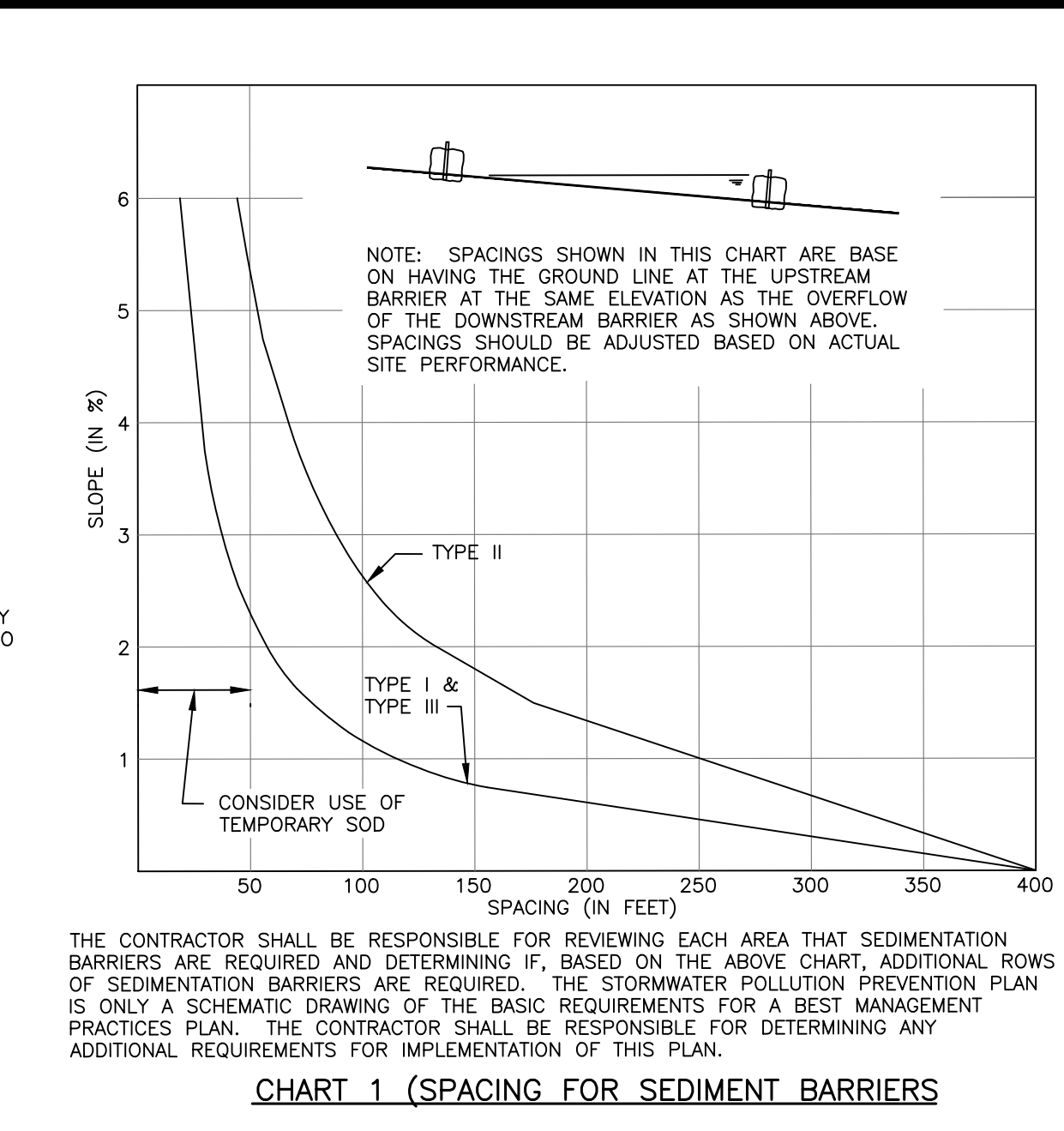
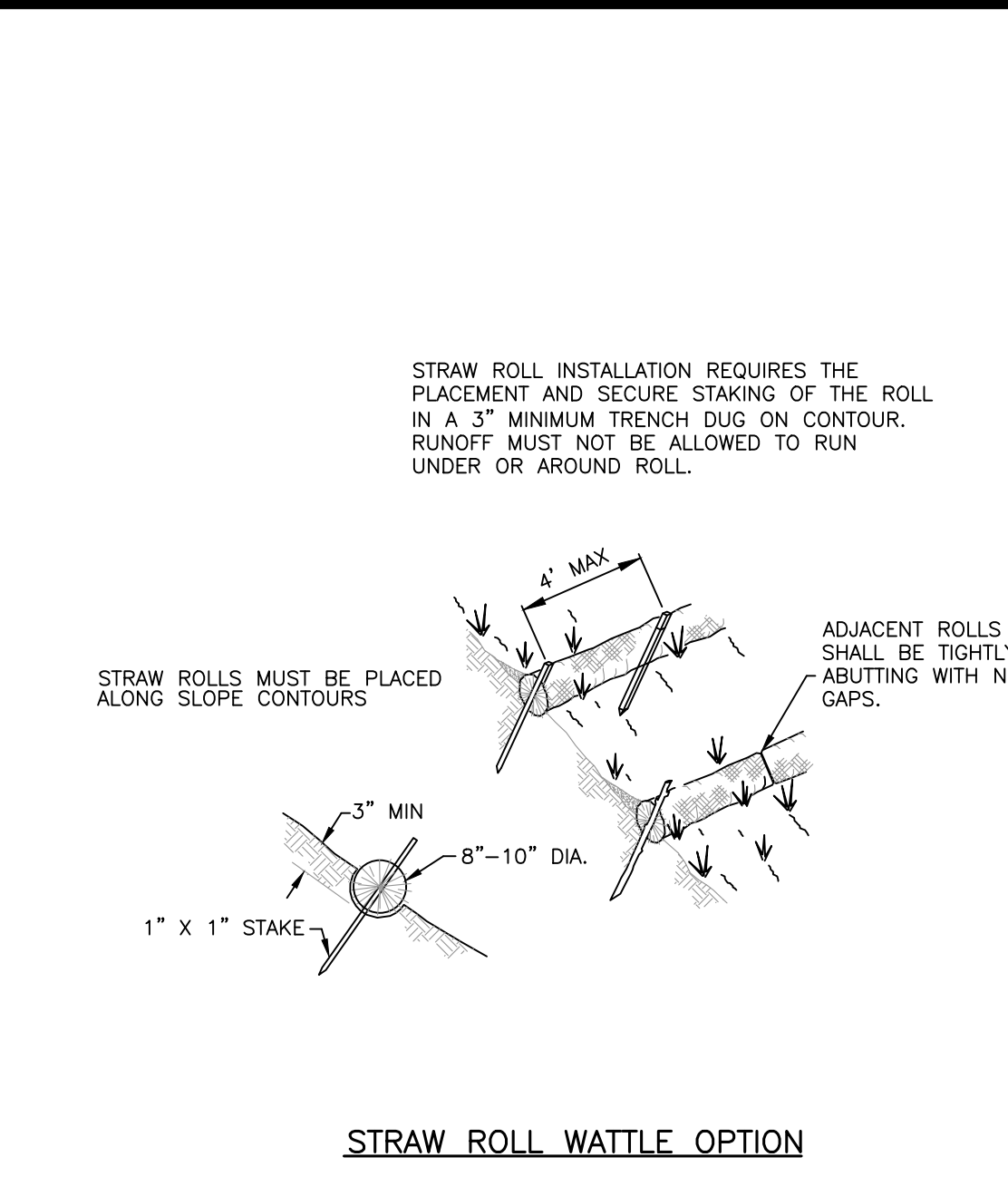
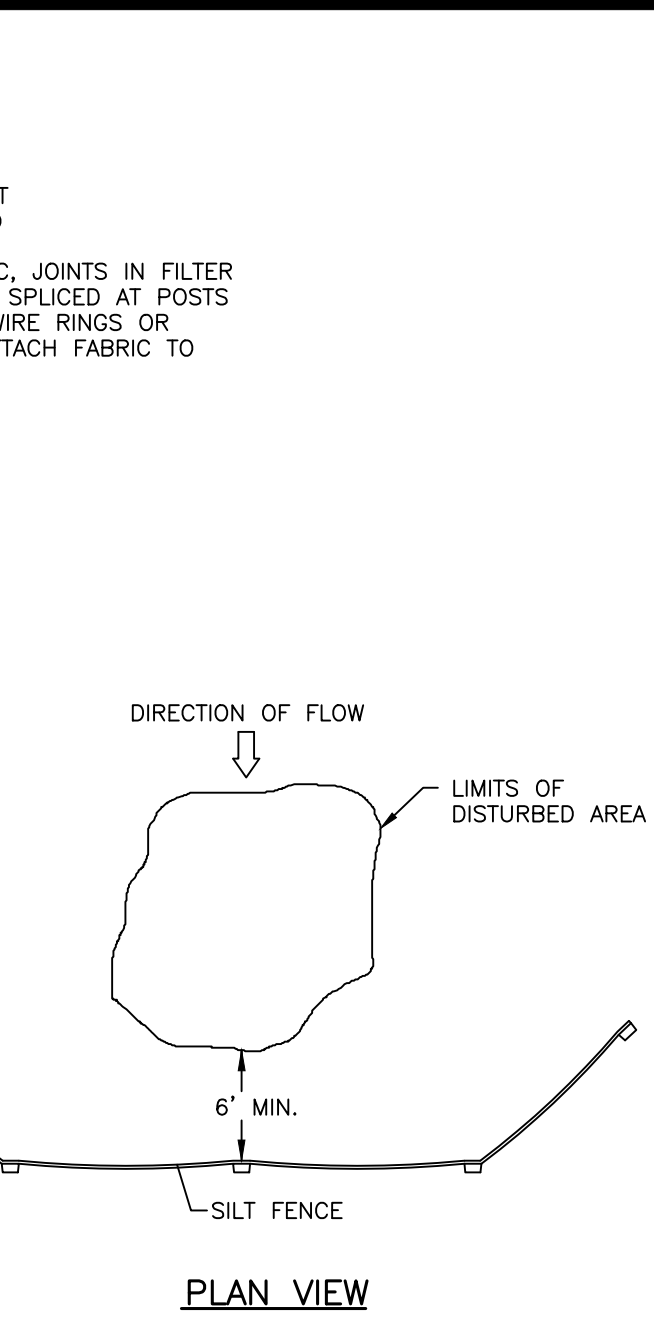
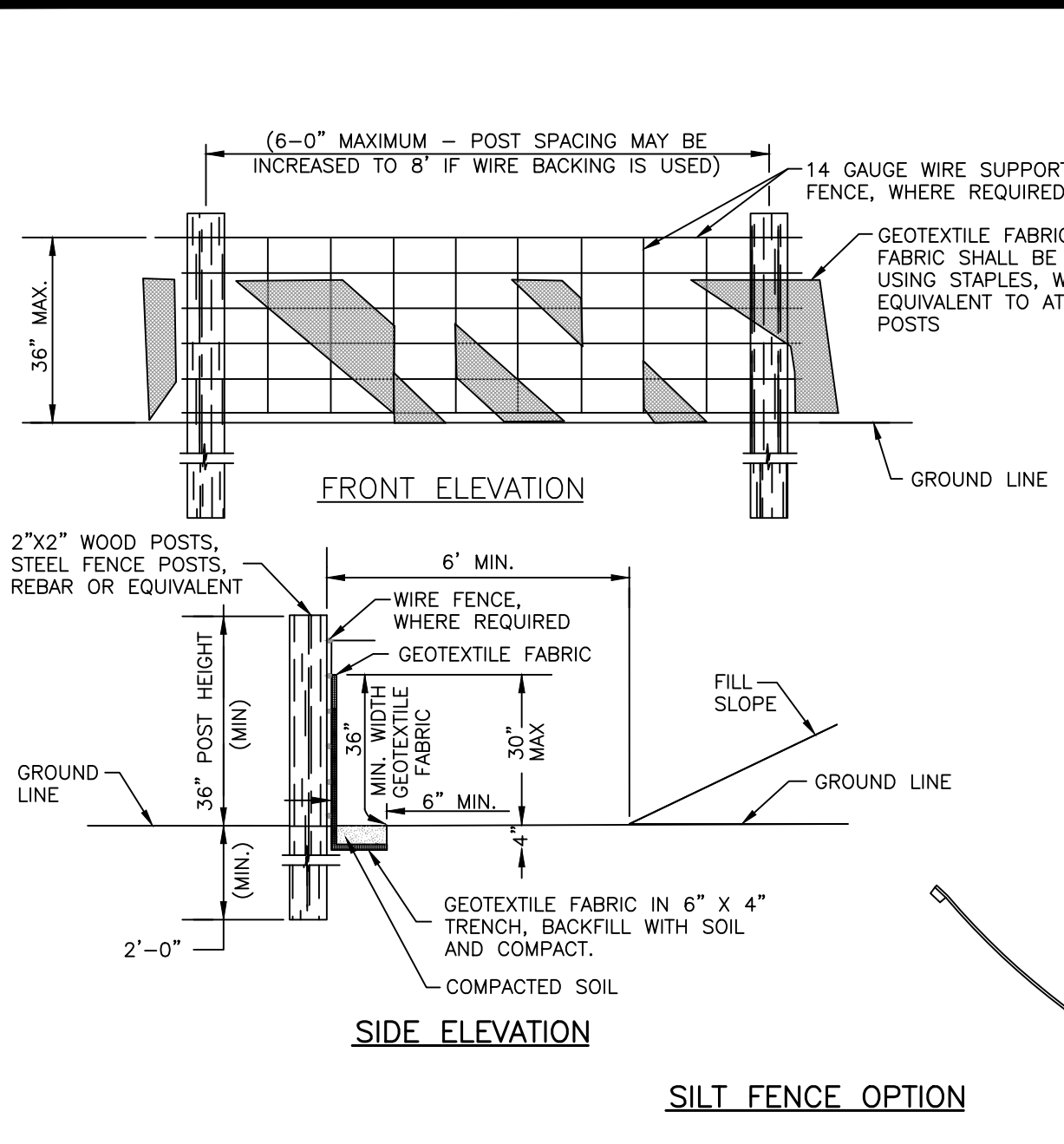
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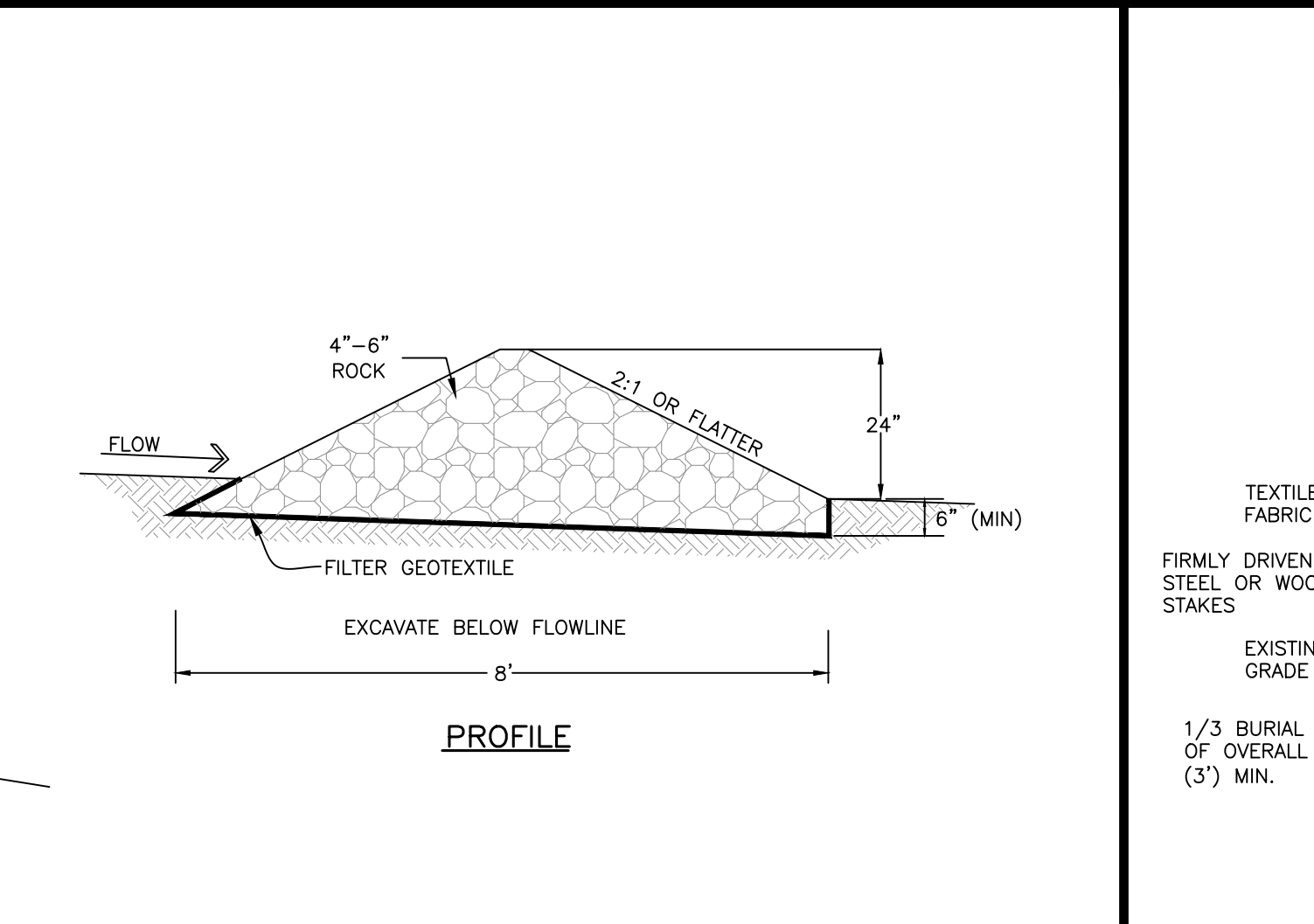
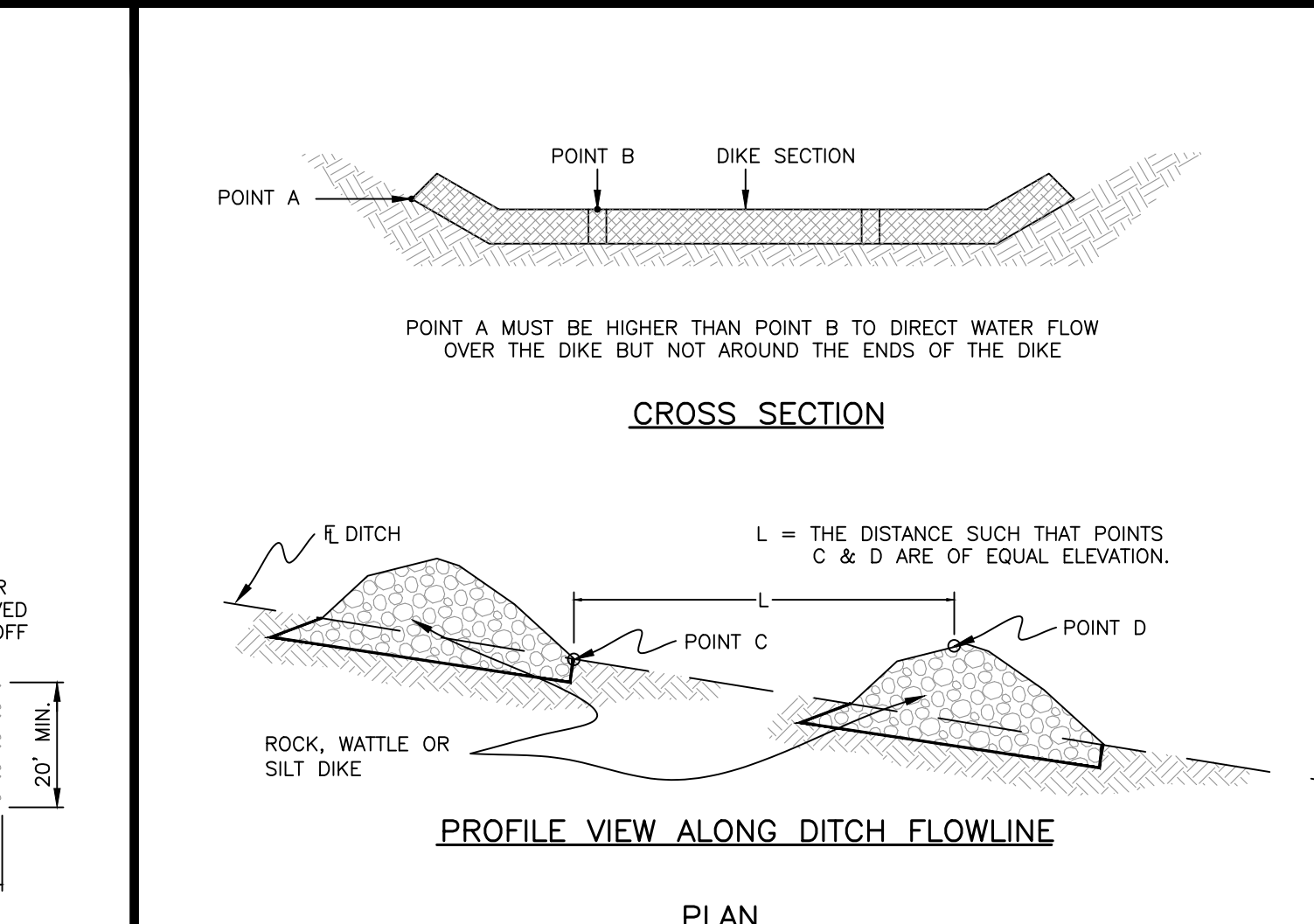
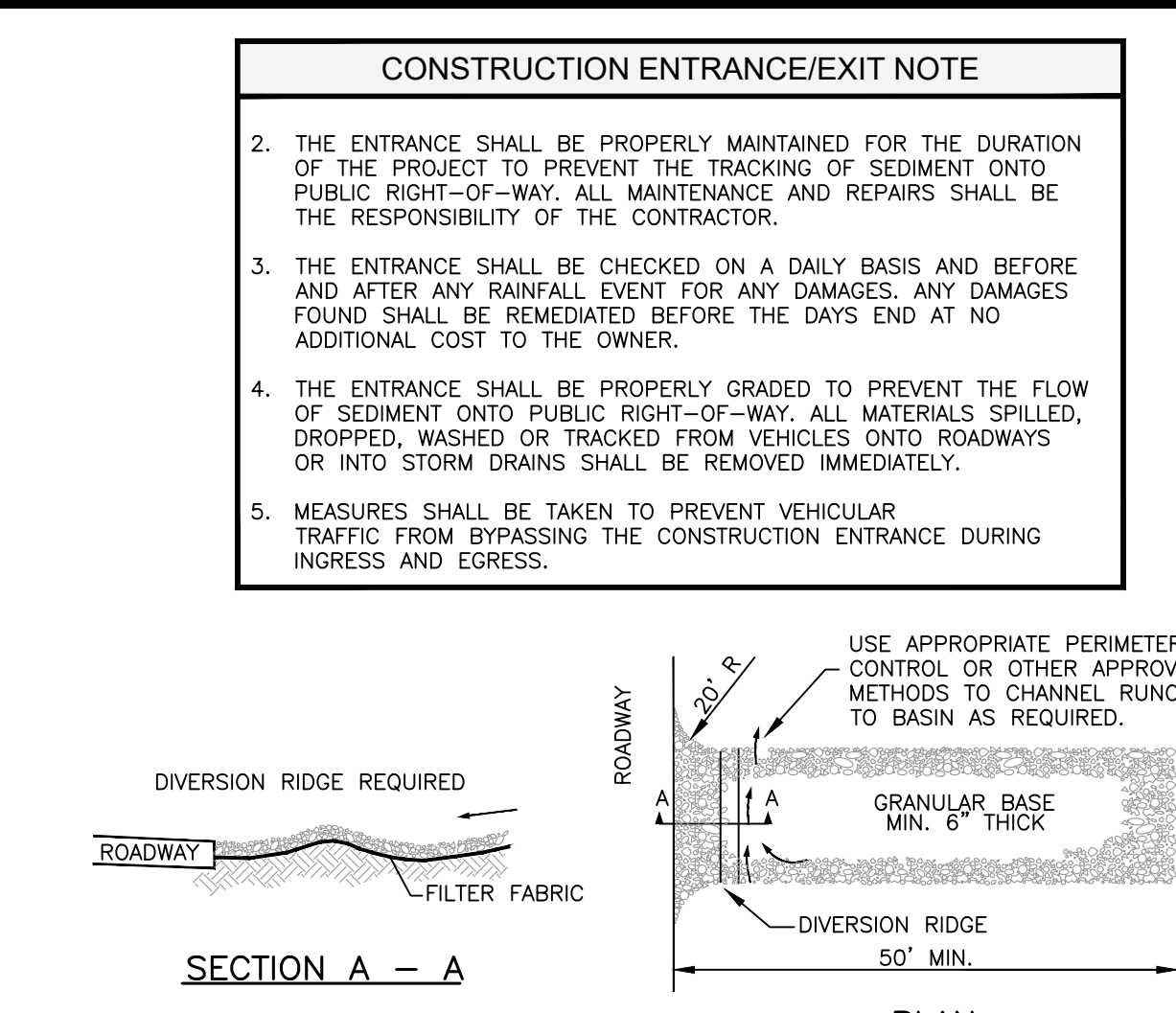
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- PERIMETER CONTROL NOTES**
1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
 2. POSTS SHALL BE SPACED A MAXIMUM OF 6' O.C. SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.
 3. POSTS SHALL BE A MINIMUM OF 5'-0" IN LENGTH. IN ADDITION POSTS SHALL BE EITHER 2" X 2" N.D. WOOD POST OR HEAVY DUTY STEEL T-POSTS WITH PROJECTIONS FOR WIRE FASTENING.
 4. WIRE SUPPORT FENCE SHALL BE A MINIMUM OF 36" IN HEIGHT, SHALL NOT EXTEND MORE THAN 36" ABOVE THE GROUND, AND SHALL EXTEND 2" INTO THE TRENCH.
 5. WIRE FENCE SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6". WIRE SHALL BE SECURELY FASTENED TO THE UPSLOPE, PROJECT SIDE OF POSTS USING HEAVY DUTY STAPLES (AT LEAST 1" LONG), THE WIRES OR HOG RINGS.
 6. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN HEIGHT, AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL SURFACE.
 7. FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AT THE TOP, MIDDLE, AND BOTTOM OF EACH POST. IN ADDITION THE FABRIC SHALL BE STAPLED OR WIRED TO THE WIRE FENCE APPROXIMATELY ONE HALF (1/2) THE DISTANCE BETWEEN THE POSTS AT THE TOP, MIDDLE AND BOTTOM OF THE WIRE FENCE.
 8. GEOTEXTILE FABRIC SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF 3" OVERLAP. EACH FREE END OF THE FABRIC SHALL BE SECURELY TIED TO THE WIRE FENCE AT 6" O.C. VERTICALLY.
 9. SILT FENCES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. THE ENTIRE LENGTH OF FENCE SHALL BE CHECKED FOR ANY DAMAGES ON A DAILY BASIS AND BEFORE AND AFTER ANY RAINFALL EVENT, FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAY'S END AT NO ADDITIONAL COST TO THE OWNER.
 10. SILT FENCES SHALL BE MAINTAINED TO PREVENT ANY MATERIAL FROM MIGRATING FROM THE UPSLOPE SIDE OF THE FENCE. ANY REQUIRED MAINTENANCE OF THE SILT FENCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 11. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL EVENT AND WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
 12. IN ORDER TO PREVENT SEDIMENT LADEN STORM WATER FROM BY-PASSING THE FENCE, IN AREAS WHERE SILT FENCES ARE NOT UTILIZED ON ALL SIDES OF A DISTURBED AREA, THE FENCE SHALL EXTEND BEYOND THE DISTURBED AREA IN J-HOOK SHAPE ON EACH END AS SHOWN IN THE ISOLATED SILT FENCE INSTALLATION PLAN VIEW.

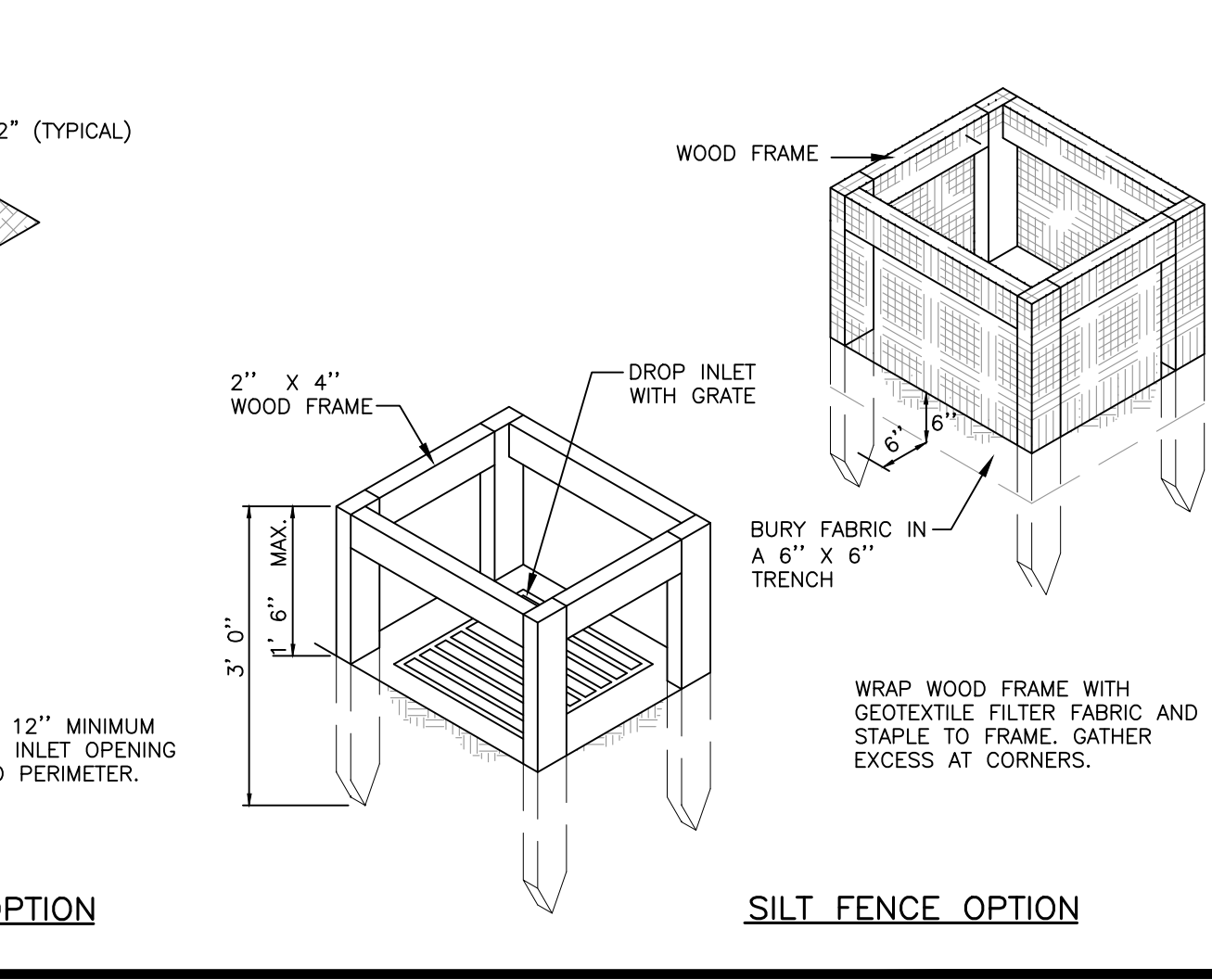
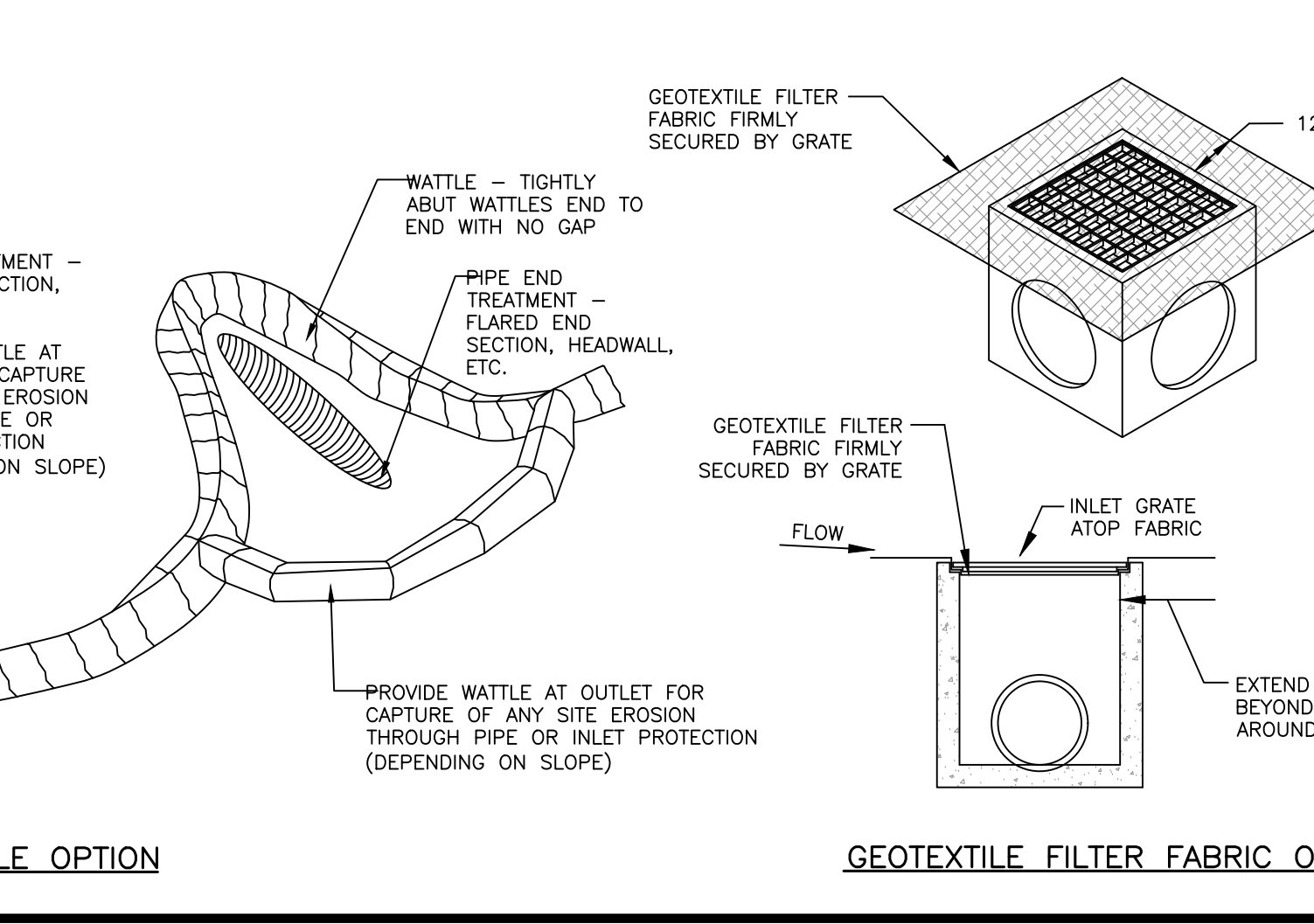
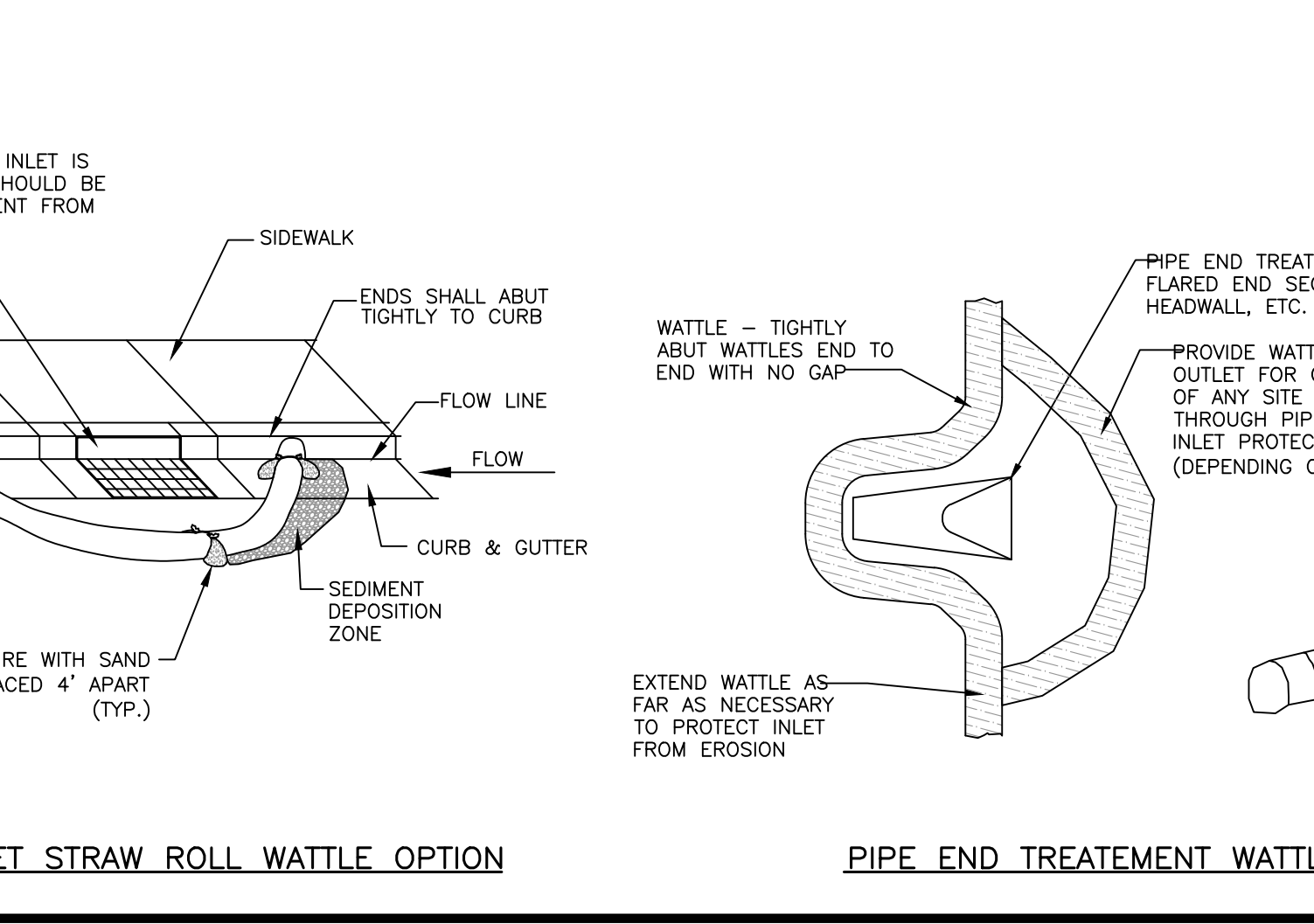
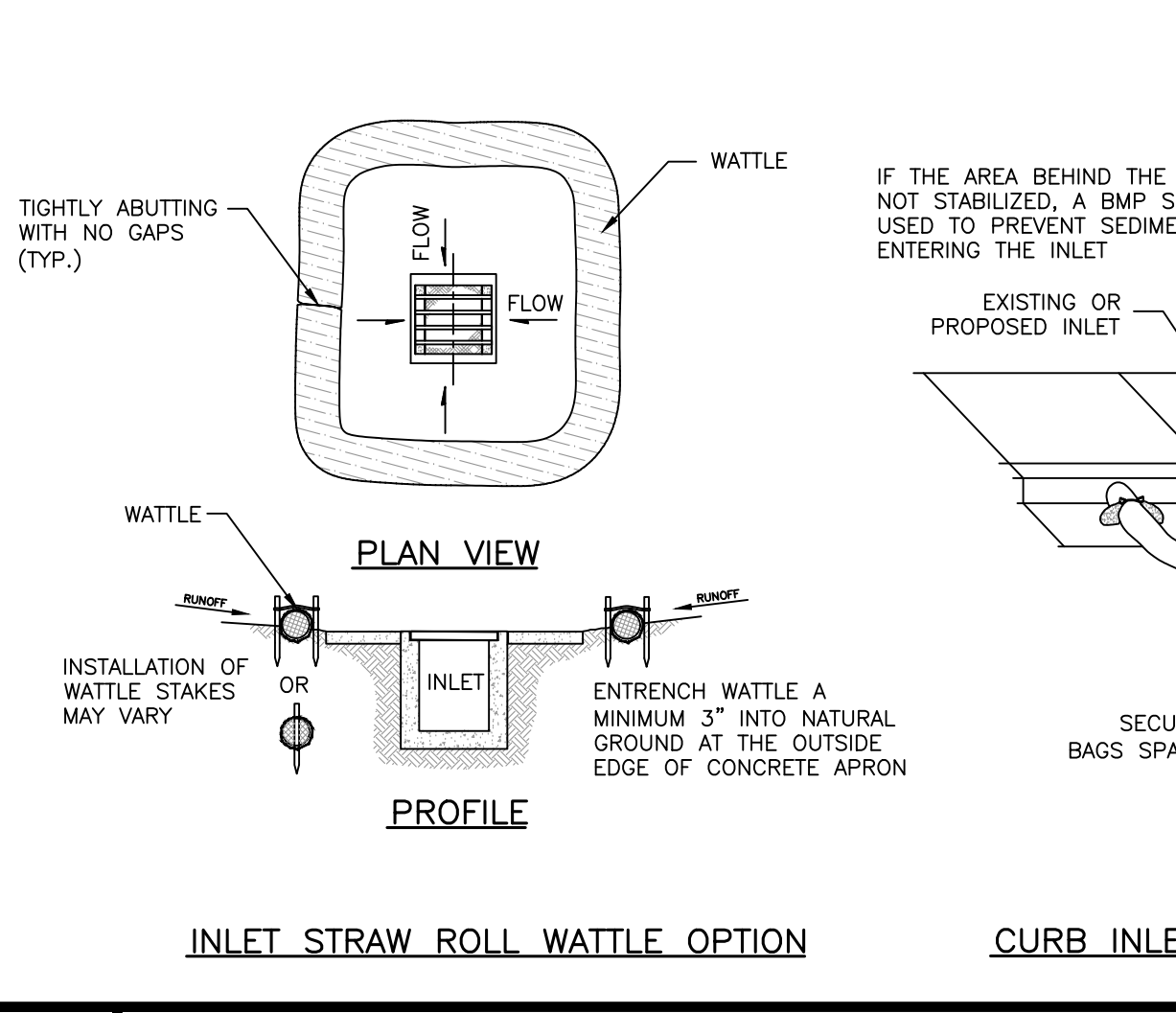
1 PERIMETER CONTROL DETAILS



2 CONSTRUCTION ENTRANCE/EXIT DETAIL

3 CHECK DAM PLACEMENT DETAIL

4 TREE PROTECTION PLACEMENT DETAIL



5 TYPICAL INLET PROTECTION DETAILS

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DIAMONDHEAD, MS 39525

SCALE: AS INDICATED

PROJECT NO: 0275.20.004

DRAWN BY: JGP

CHECKED BY: GWK

STORM WATER POLLUTION PREVENTION PLAN

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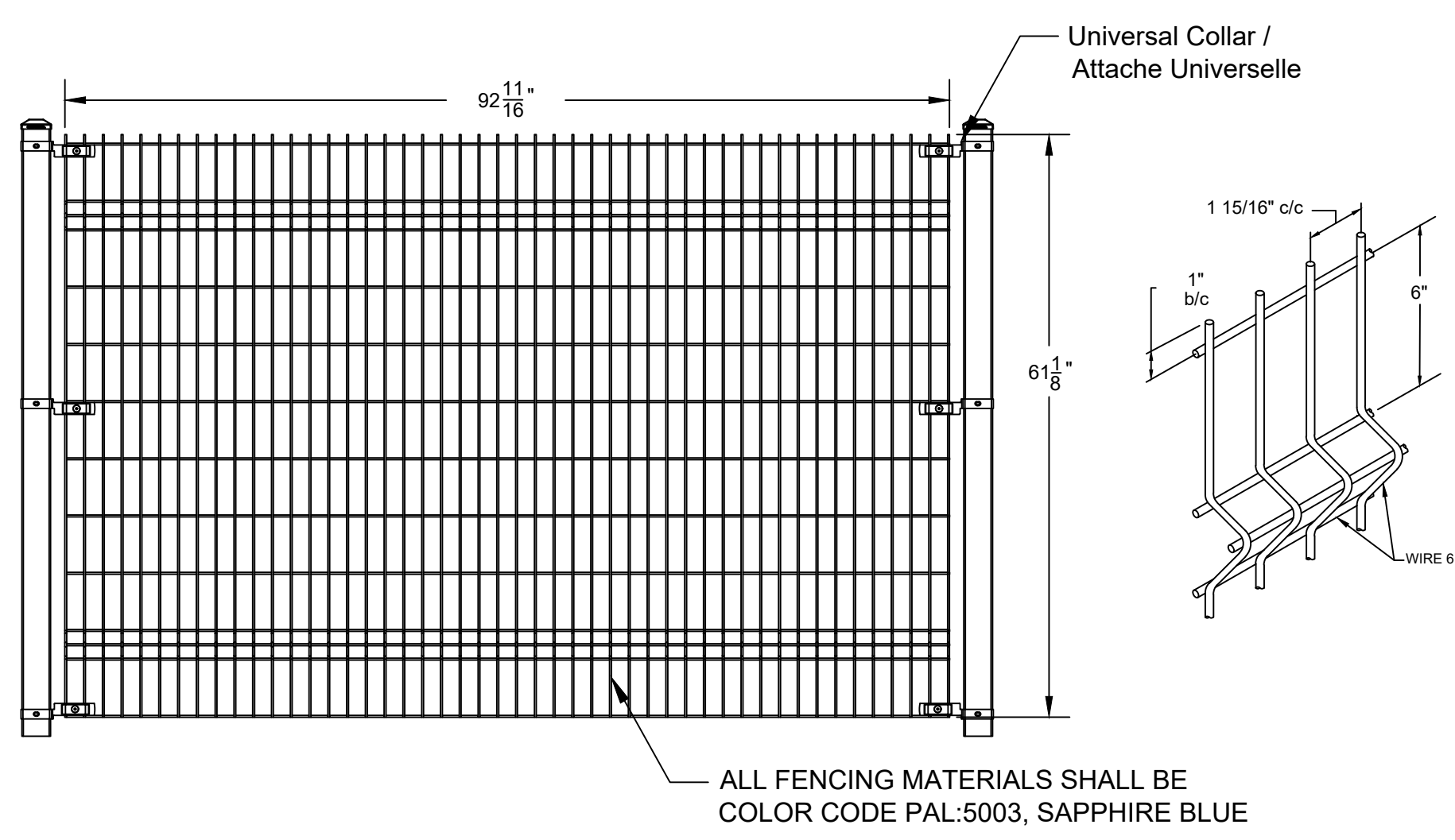
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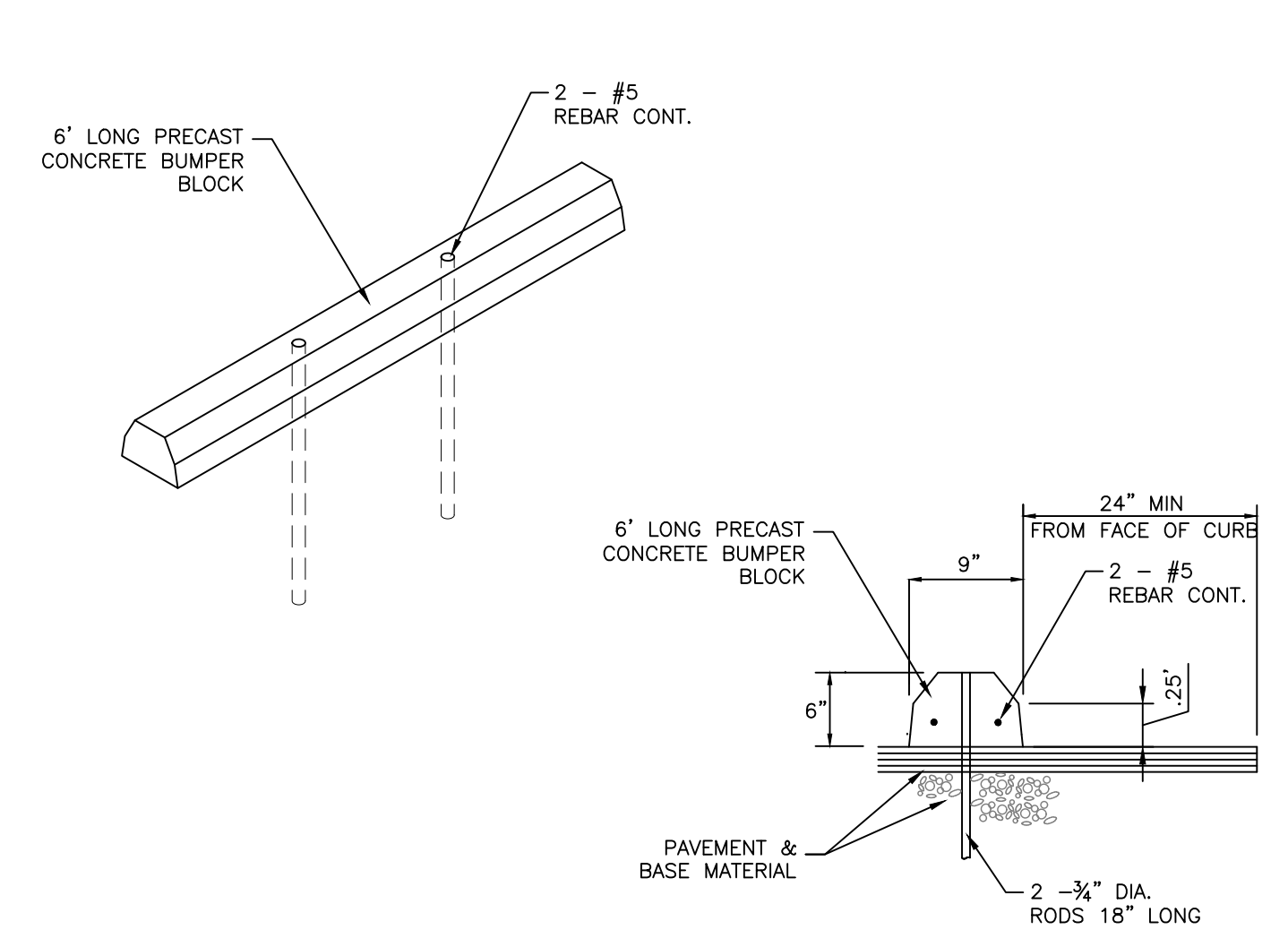
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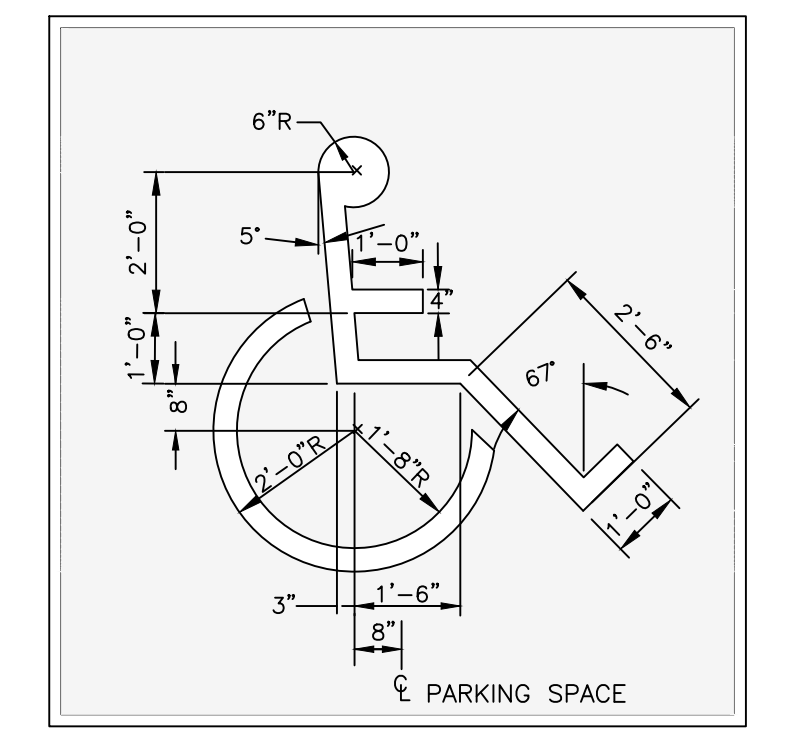
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2 PRECAST CONCRETE WHEEL STOP DETAIL NOT TO SCALE

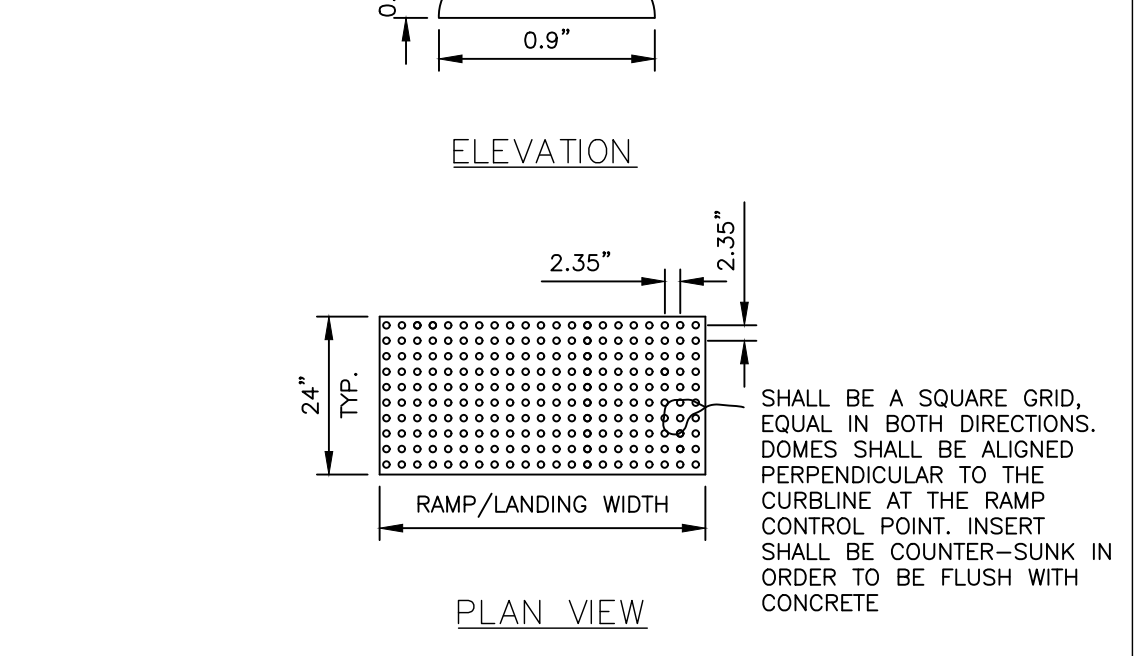
HANDICAP SYMBOL DETAIL NOTES

1. PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND.
2. BLUE COLOR SHALL MATCH NO. 15090 IN THE FEDERAL STANDARD 595B AS SPECIFIED IN SECTION 522(B)2.

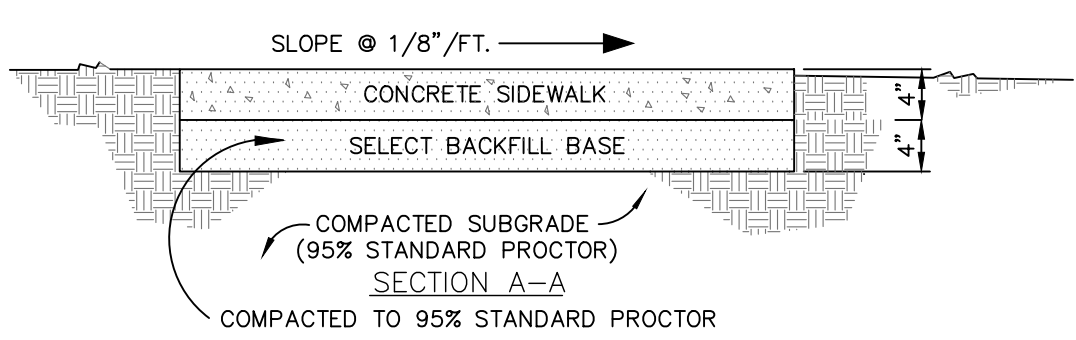
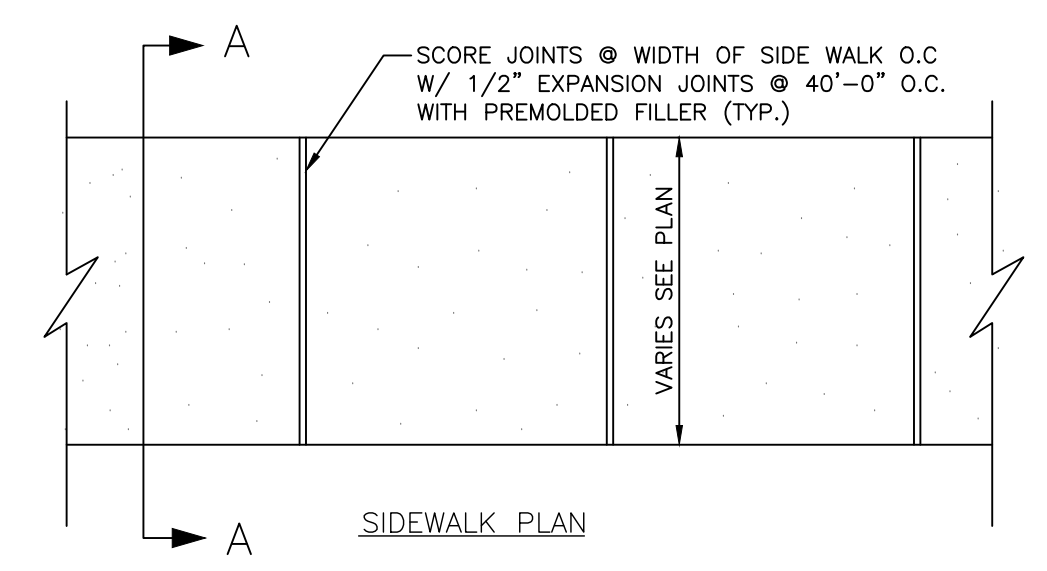


3 INTERNATIONAL HANDICAP SYMBOL DETAIL NOT TO SCALE

TRUNCATED DOME DETECTABLE WARNING DETAIL



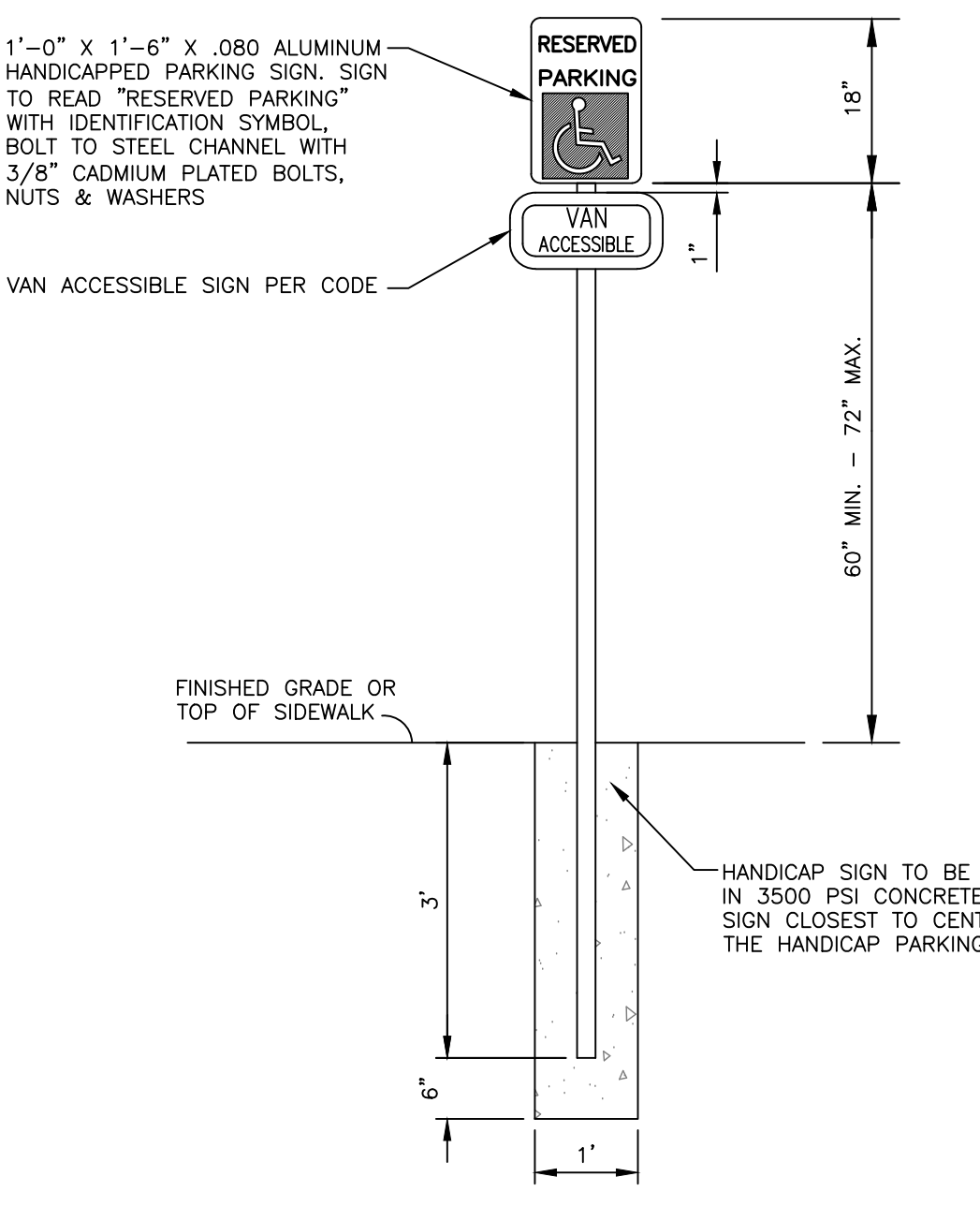
4 TRUNCATED DOME DETECTABLE WARNING DETAIL NOT TO SCALE



SIDEWALK NOTES

1. ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 308R-08 OR SECTION 3.07 IN THE NRMCA GUIDE SPECIFICATIONS.
2. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
3. CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 5 FEET OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. JOINTS SHALL BE PROVIDED WITHIN TWELVE (12) HOURS OF FINISHING CONCRETE.
5. CONTRACTION JOINT CUTS SHALL BE 1/4 OF THE PAVEMENT THICKNESS DEEP. THE WIDTH OF THE CUT SHOULD BE APPROXIMATELY 1/8 INCH FOR UNSEALED JOINTS AND 1/4 INCH FOR SEALED JOINTS.
6. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
7. SCORED JOINTS SHALL BE 1/4" DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
8. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
9. CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT.
10. CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.

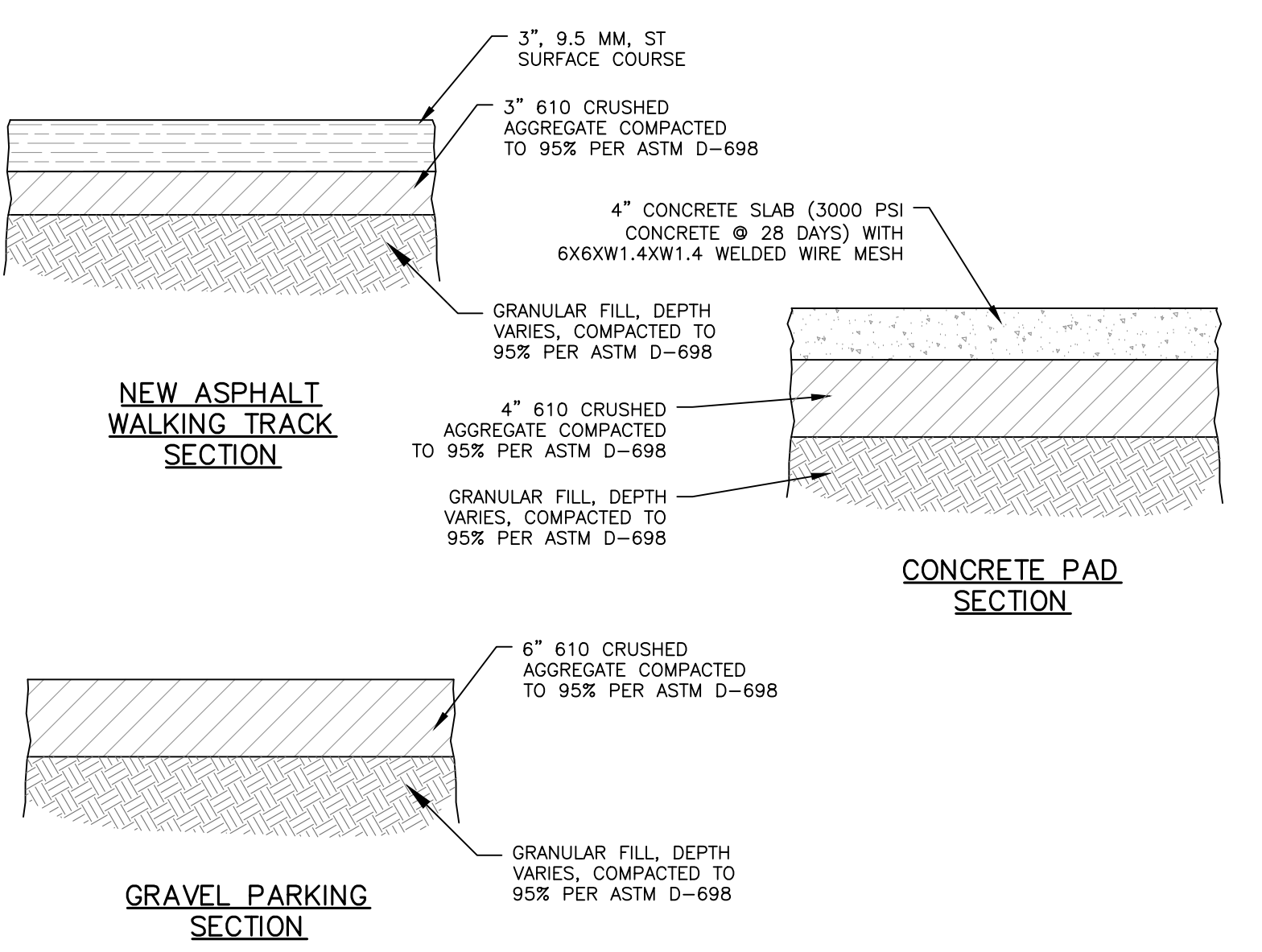
5 SIDEWALK DETAIL NOT TO SCALE



HANDICAP SIGN DETAIL NOTE

HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

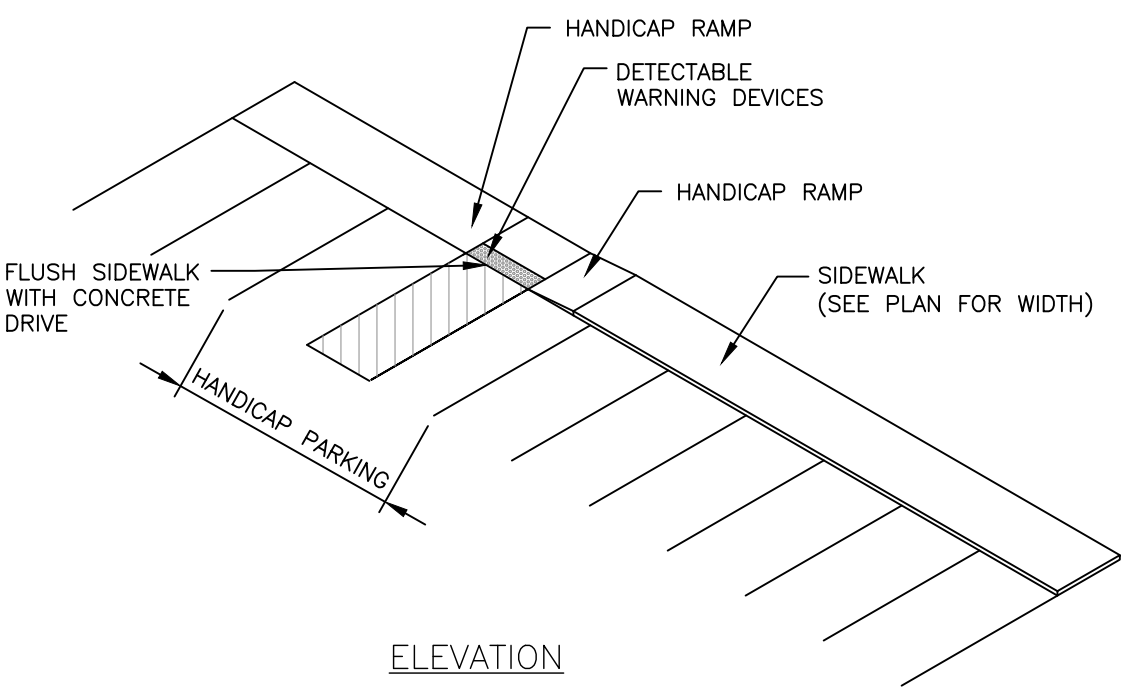
6 HANDICAP SIGN DETAIL NOT TO SCALE



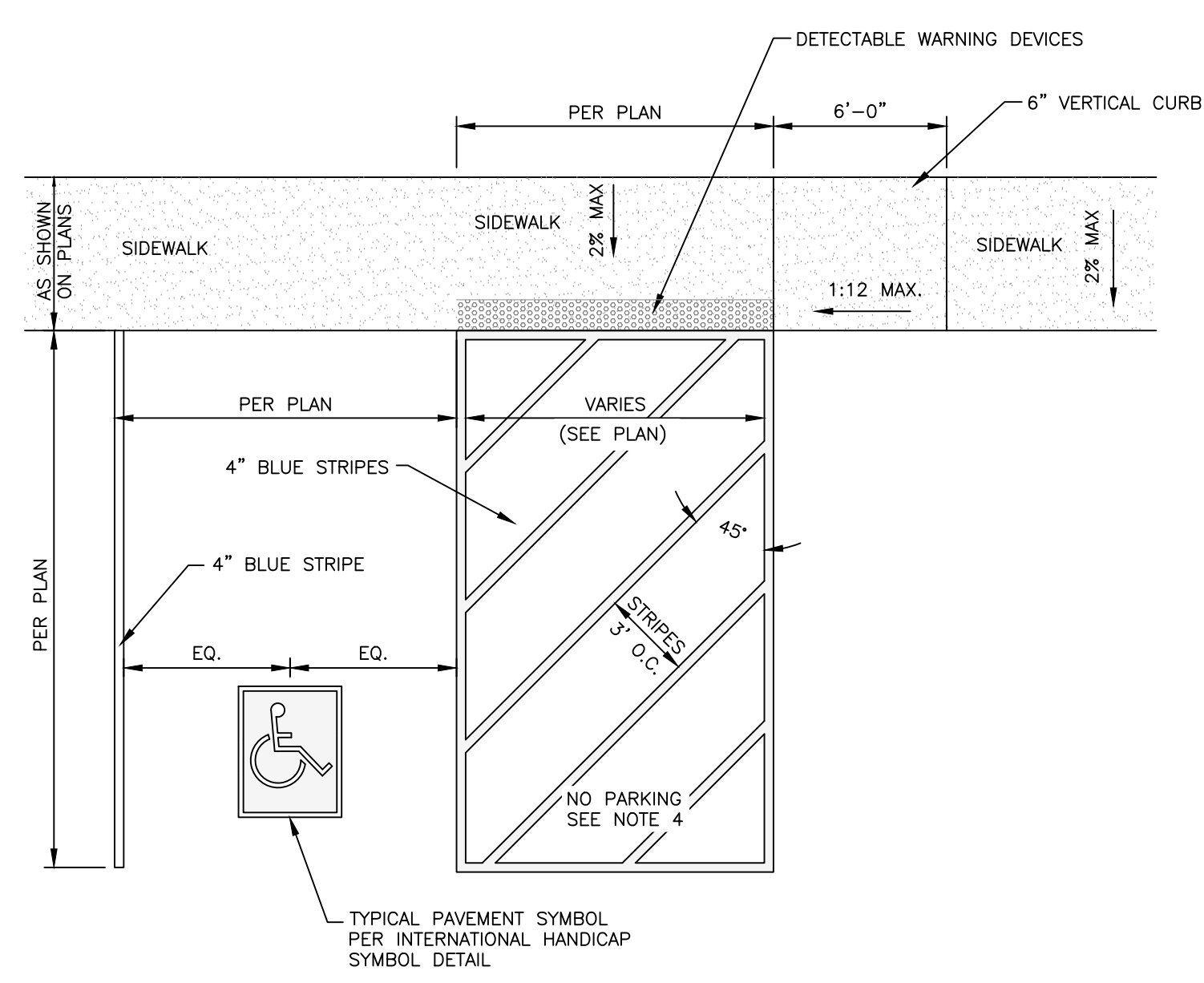
7 TYPICAL SECTIONS

HANDICAP RAMP DETAIL NOTES

1. WIDTH OF END PARKING STALLS ADJACENT TO CURB & GUTTER OR PRECAST CURB SHALL BE MEASURED FROM FACE OF CURB WHERE APPLICABLE.
2. ALL STRIPING CONTIGUOUS TO HANDICAPPED PARKING SPACES SHALL BE PAINTED BLUE.
3. "NO PARKING" 12" STENCIL MARKING, REFLECTIVE WHITE OVER BLUE STRIPES.
4. HANDICAP PARKING GRADES SHALL NOT EXCEED 1:48 IN ANY DIRECTION.



8 HANDICAP RAMP DETAIL NOT TO SCALE



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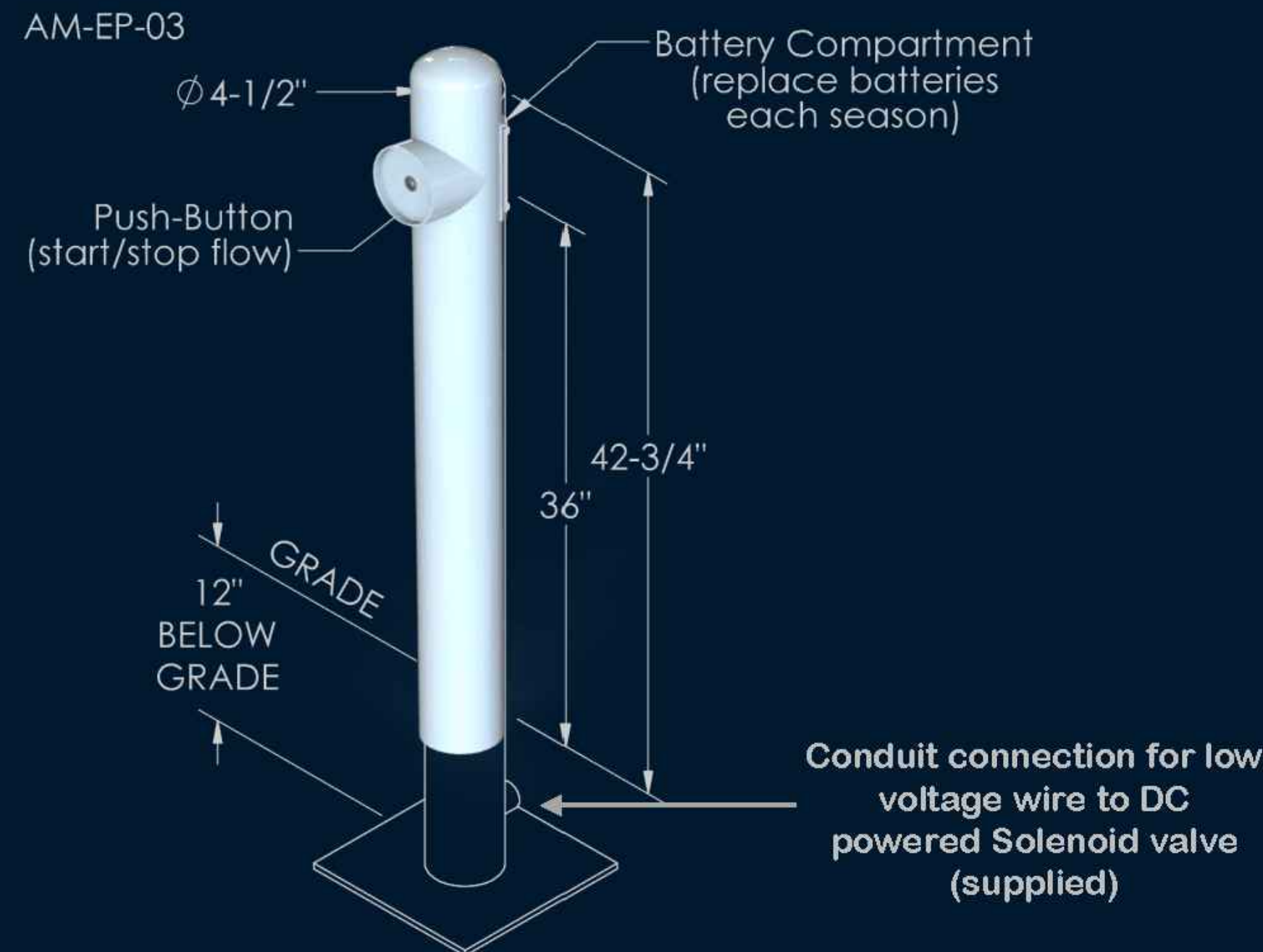
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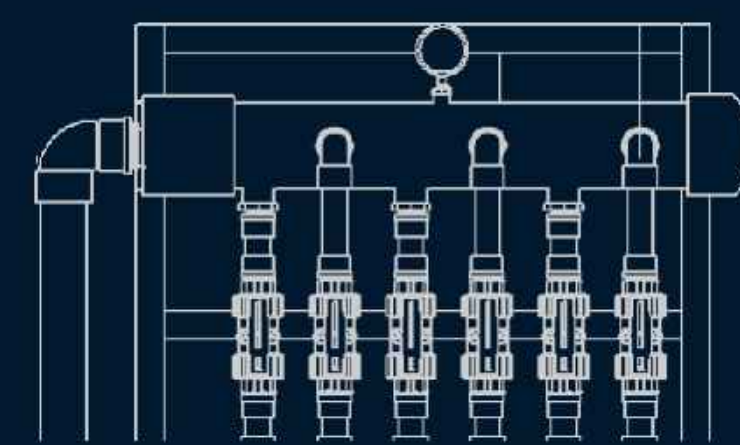
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H2O Fido™ EcoPlay Splash Pad Activator - Timer

We created our Eco-Play for small splash pads on a budget. This battery powered bollard requires no electricity and will start your splash water with the touch of a button. Water automatically stops after the amount of time you have selected from 1 – 10 minutes. Eco-Play simply starts and stops the water supply. This system does not sequence sprays. Balancing valves to adjust individual spray volume are supplied by your installer or can be ordered from H2O Fido. Battery cycle is rated for 5000+ activations.



- ✓ No Electrician required
- ✓ Easy to Install
- ✓ Push Button to Start Splash Pad
- ✓ Adjustable auto turn off 1 – 10 minutes



Optional balancing manifold for manually adjusting sprays feature available

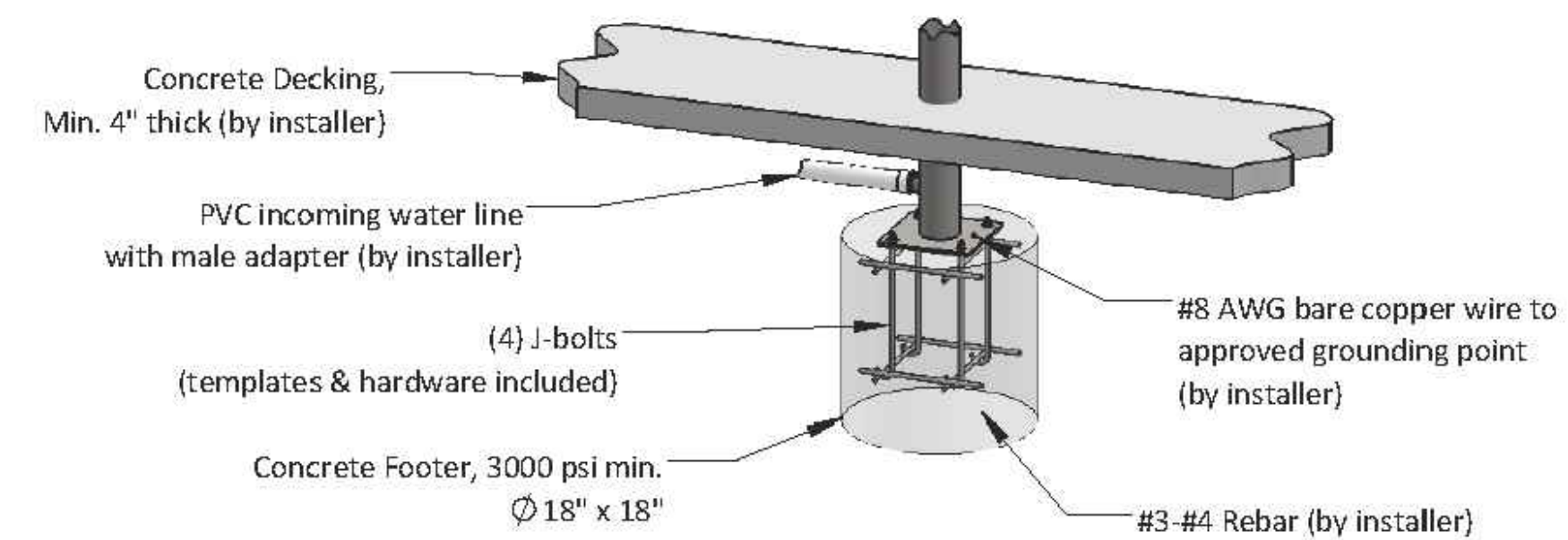
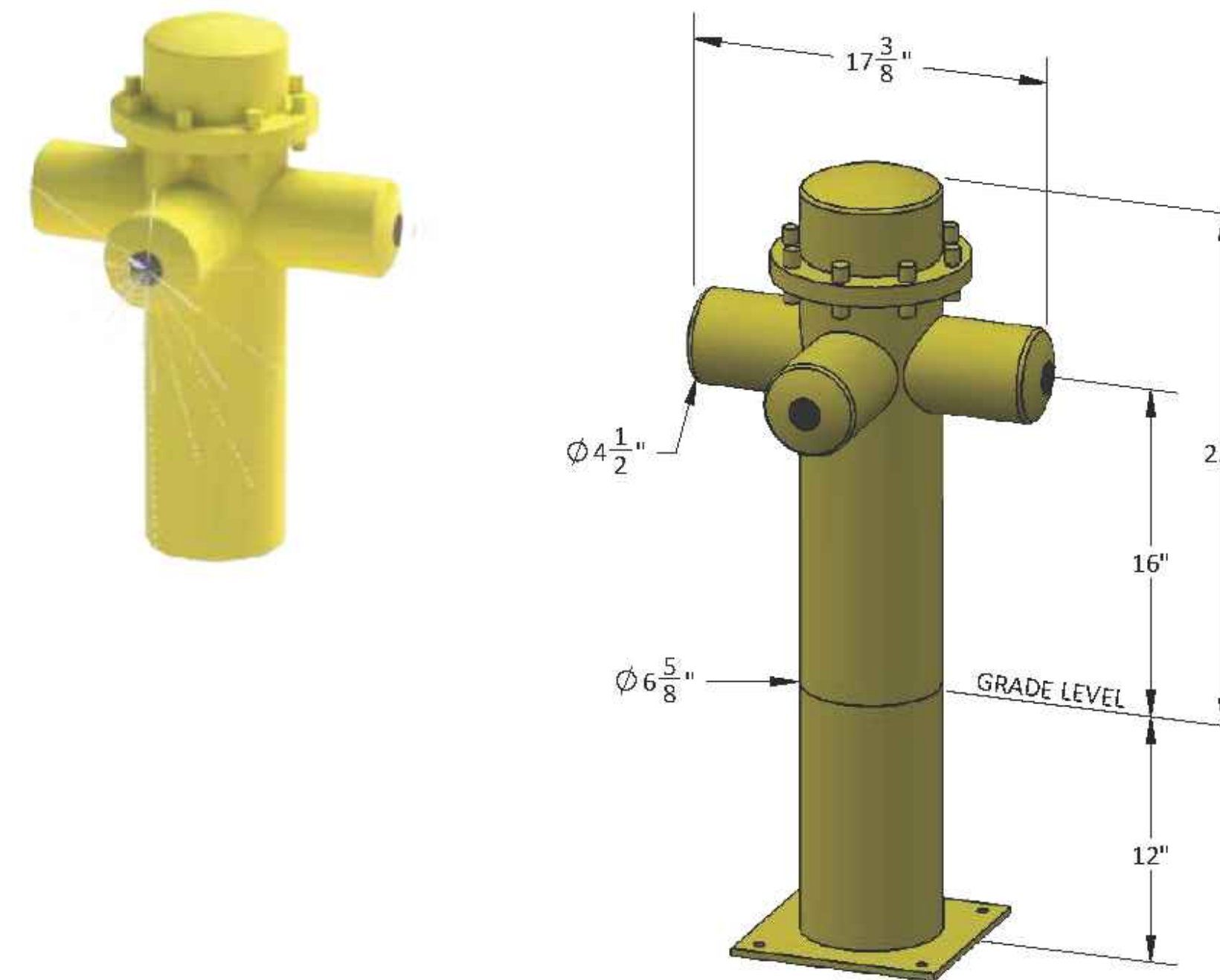


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FSF-FH-25 Mist Hydrant

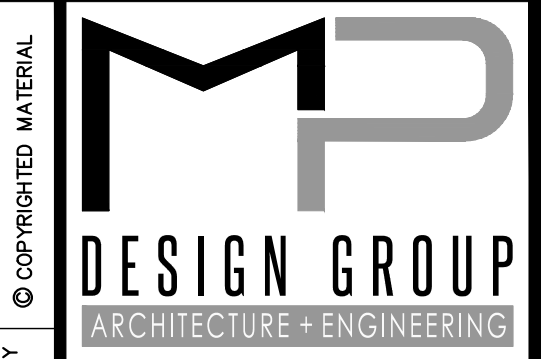
FIDO-friendly FEATURE



Model	Weight (lbs)	Materials	Nozzles	Finish	Flow	Below Grade Connections
FSF-FH-01	60	Baseplate: 3/8" A304 SS Body: A304 SS Single Body Welded	(3) Brass (standard unless spec'd otherwise)	Dupont Industrial Power Coating (color per choice)	1.5-6 gpm	Plumbing - 3/4" F-NPT Grounding - 1/4-20 S.S. stud



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CIVIL SITE DETAILS

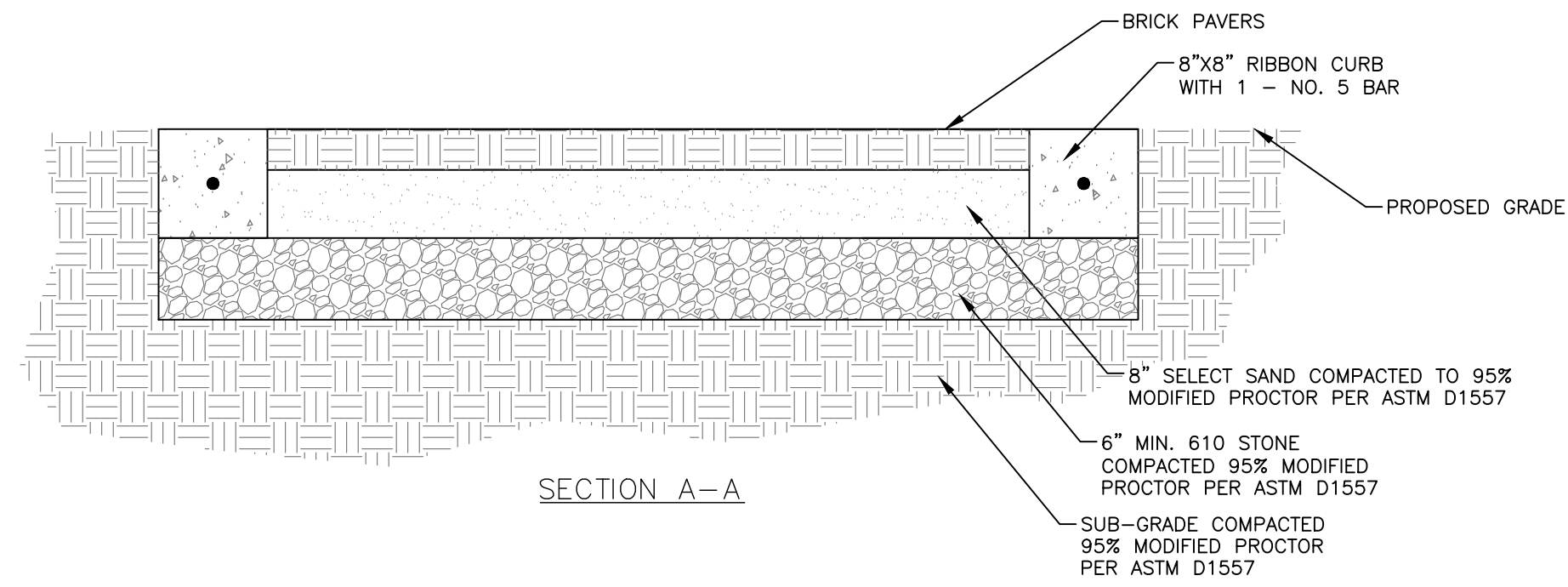
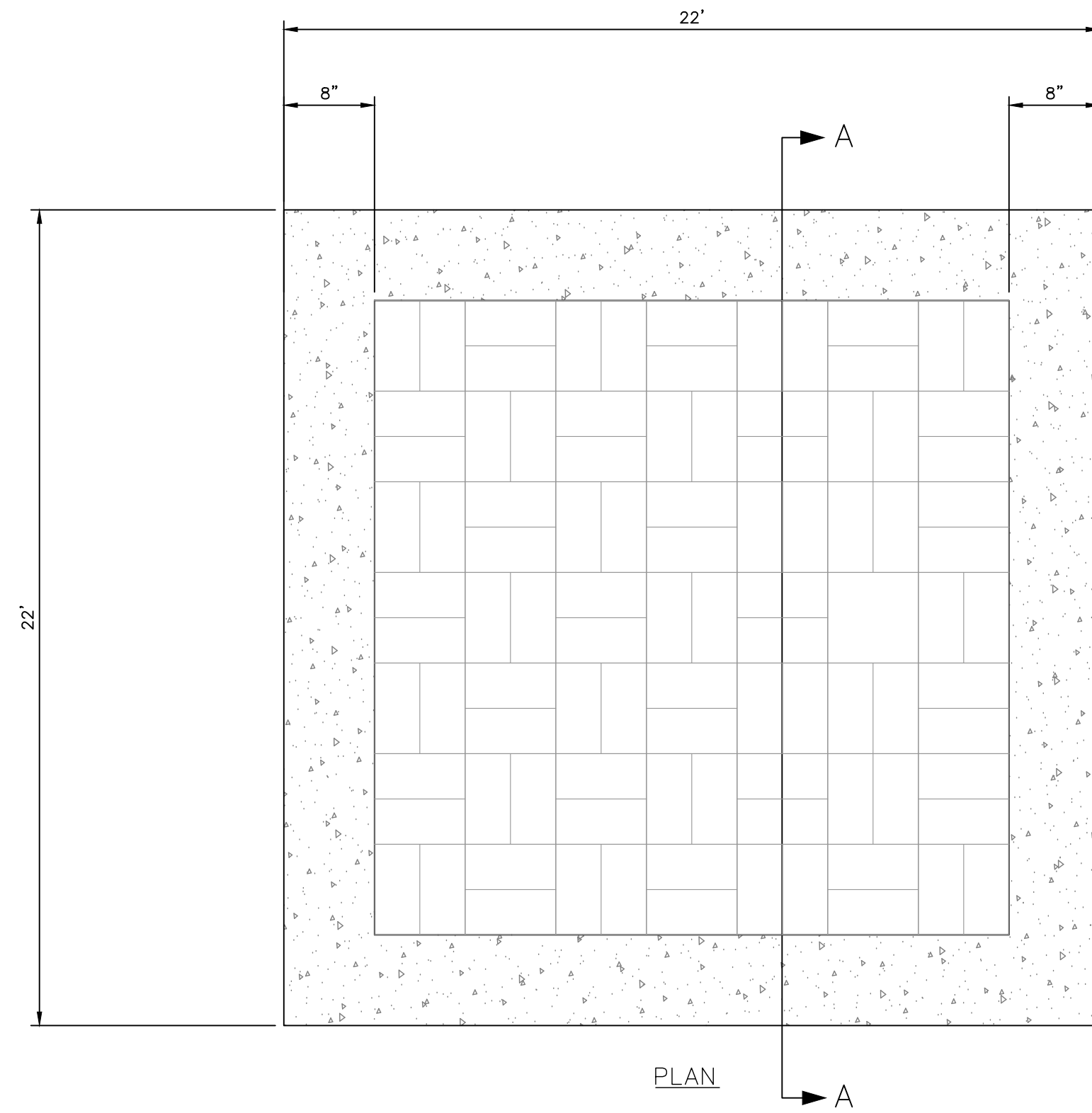
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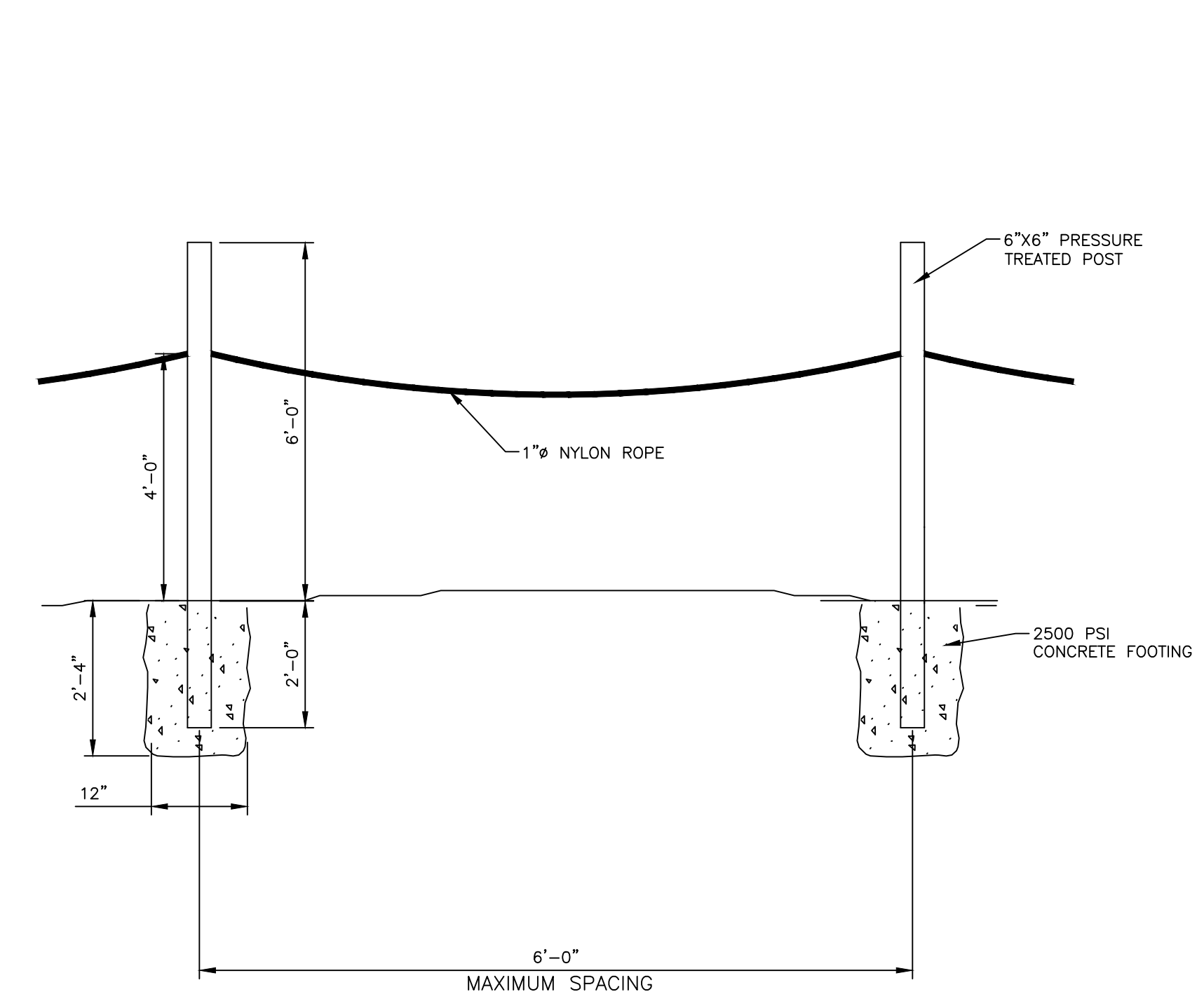
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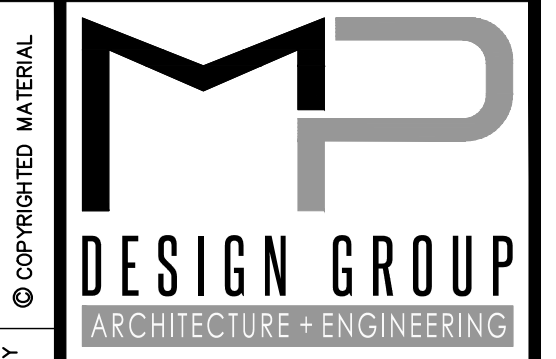
1 ALTERNATE NO.1 DETAILS

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2 WOODEN POST BARRIER DETAIL

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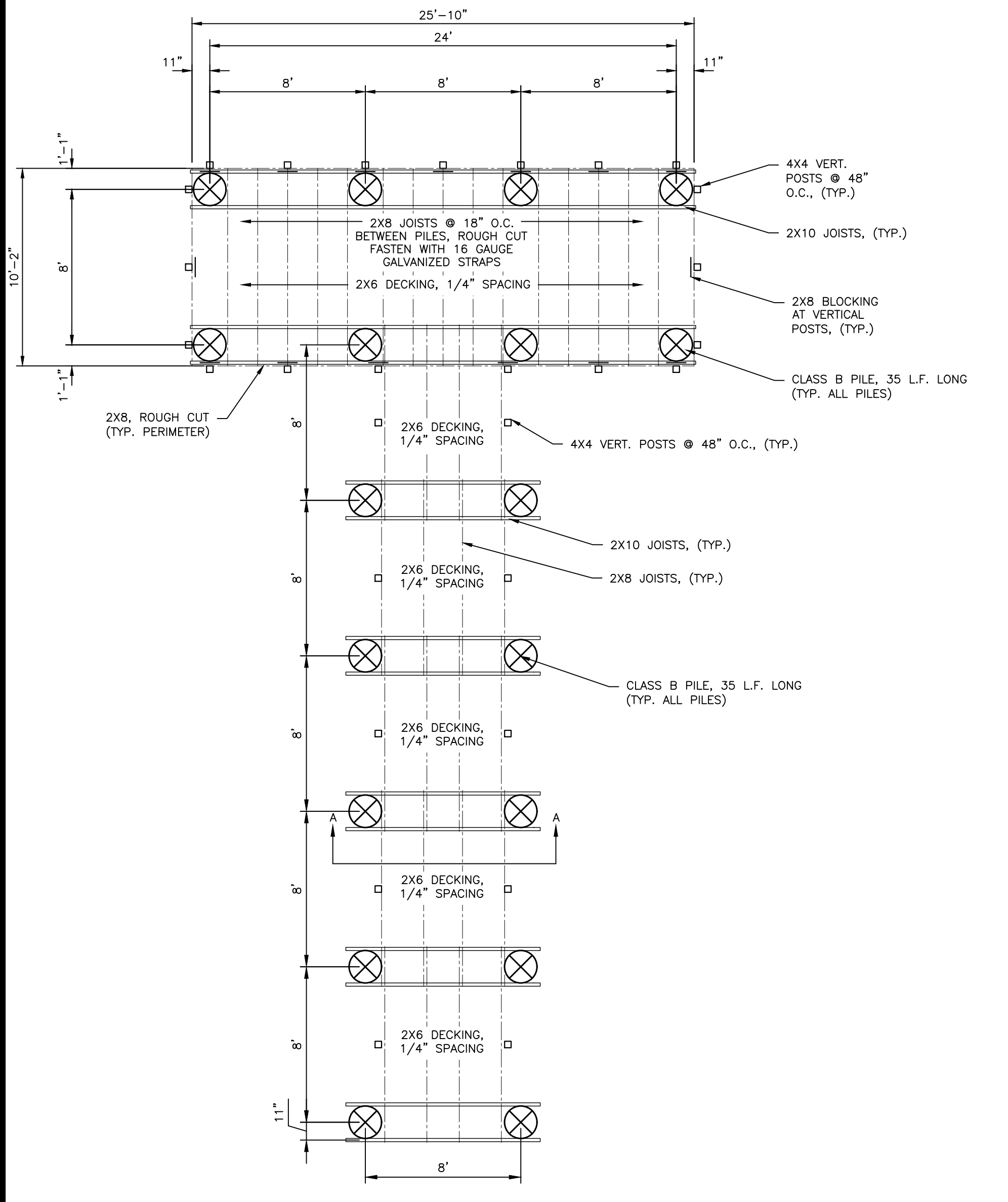
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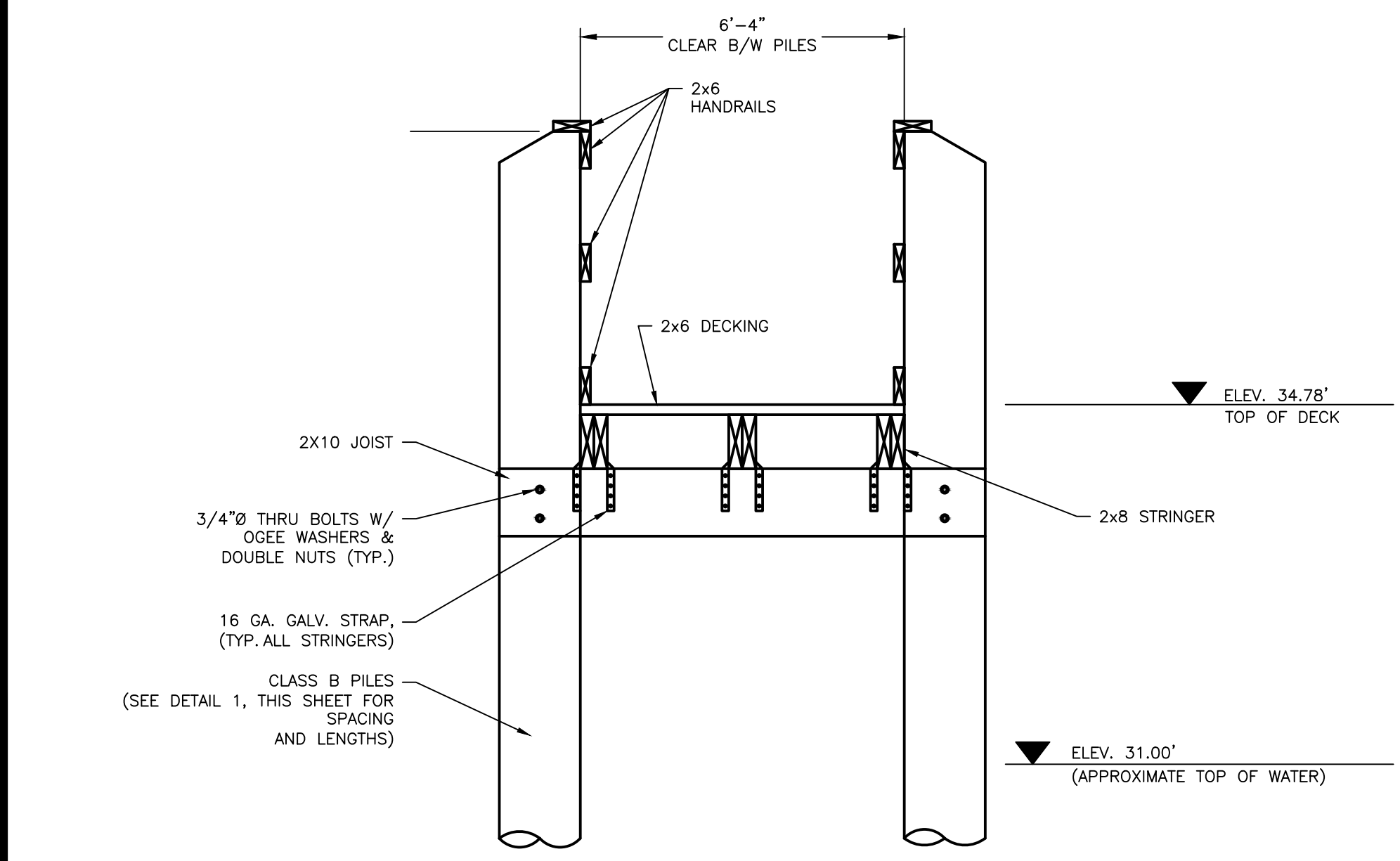
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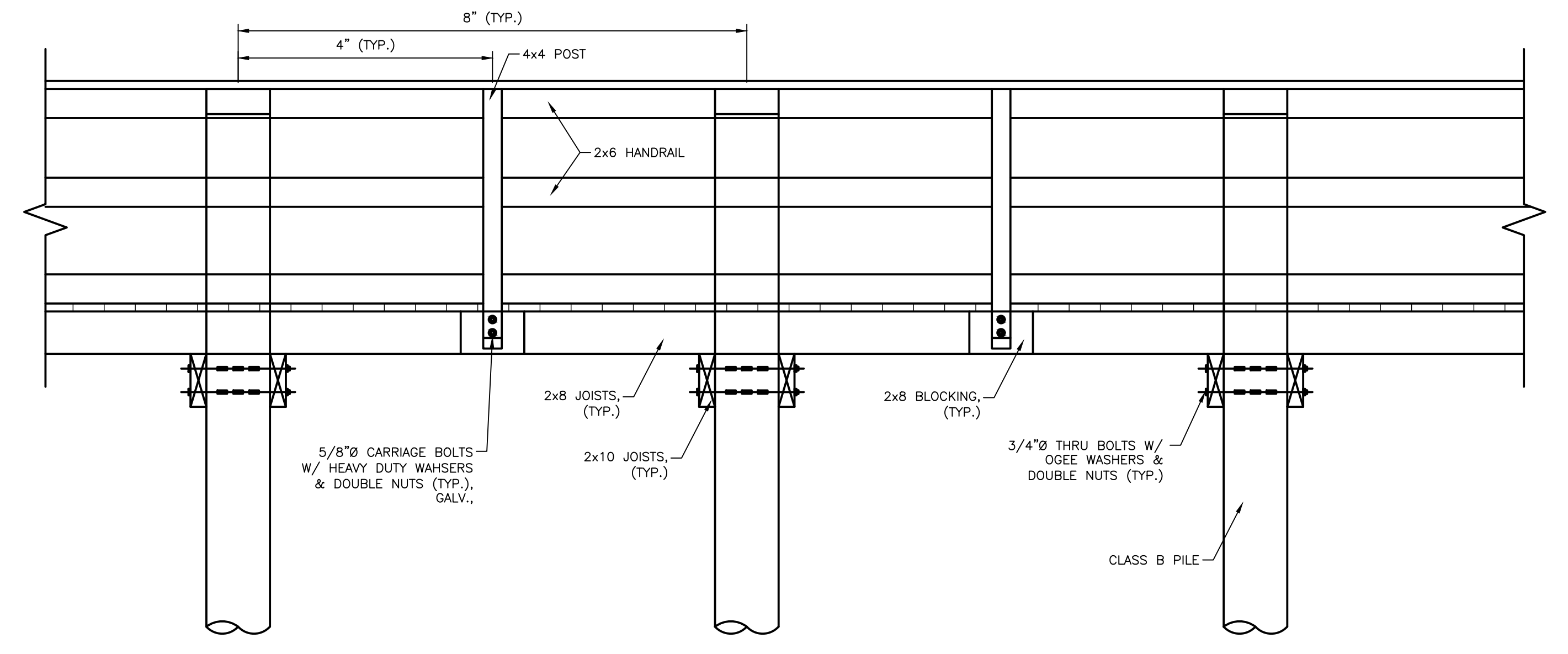
1 PIER LAYOUT DETAIL

NOT TO SCALE



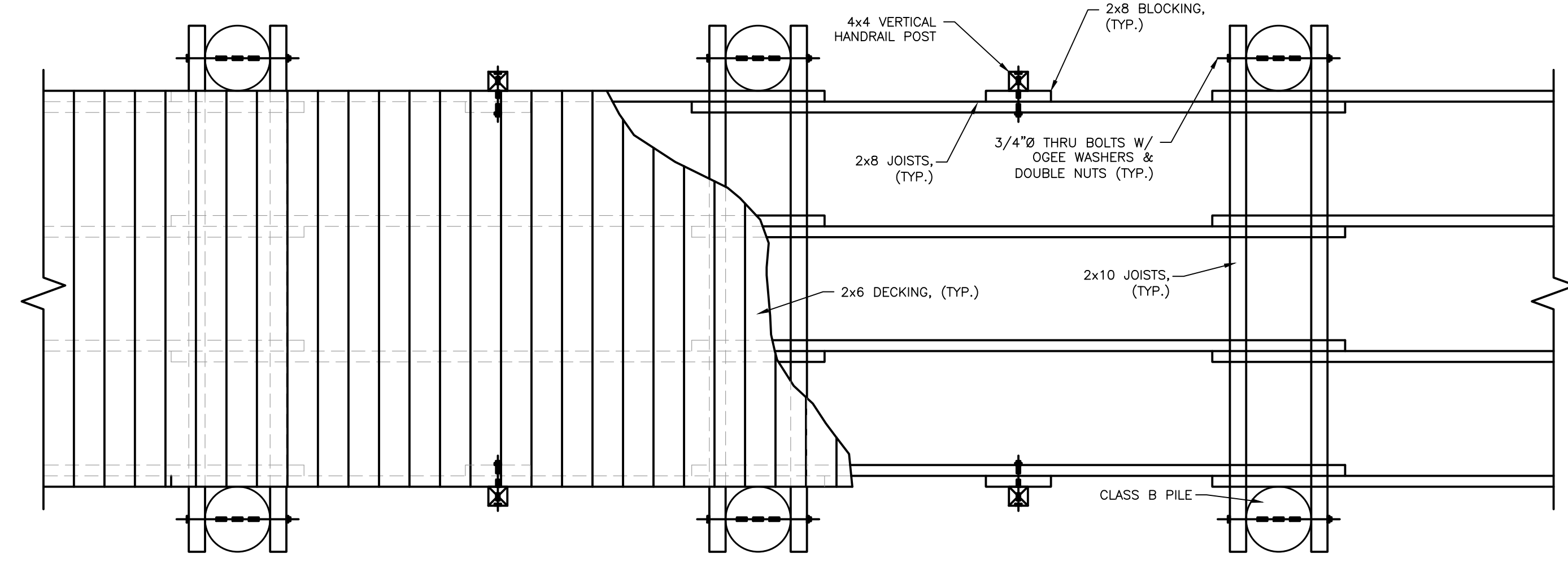
4 PIER SECTION A-A DETAIL

NOT TO SCALE



2 PIER LAYOUT DETAIL

NOT TO SCALE



3 PIER LAYOUT DETAIL

NOT TO SCALE

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CITY OF DIAMONDHEAD
TWIN LAKE FISHING PIER AND TRAIL
 DIAMONDHEAD DRIVE WEST
 DIAMONDHEAD, MS 39525

SCALE: AS INDICATED
 PROJECT NO: 0275.20.004
 DRAWN BY: JGP
 CHECKED BY: GWK

PIER DETAILS

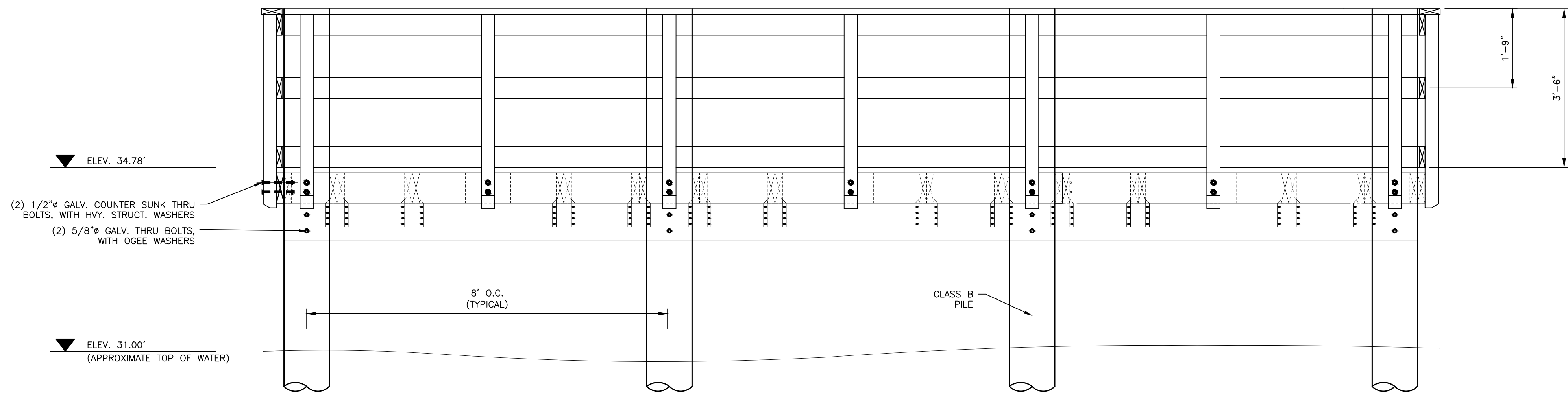
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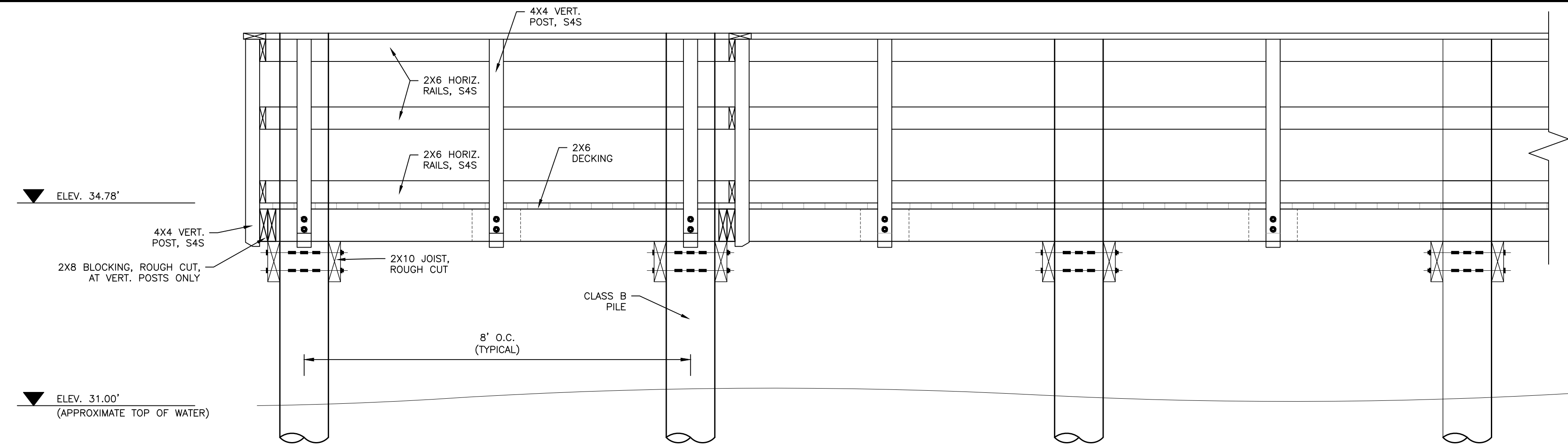
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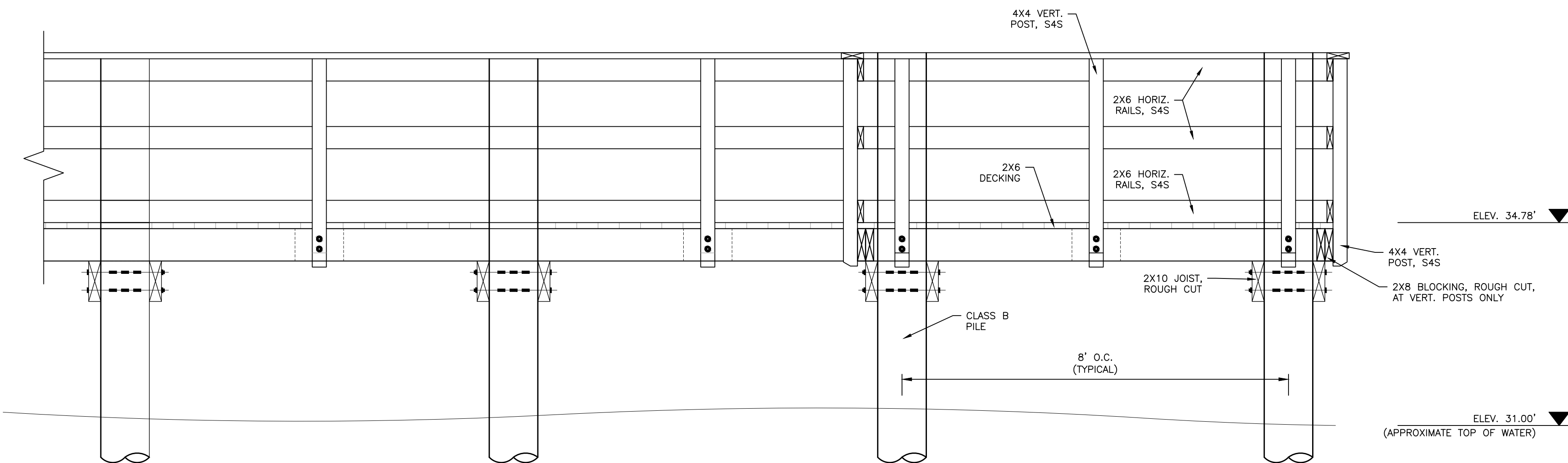
1 PIER WEST ELEVATION

NOT TO SCALE



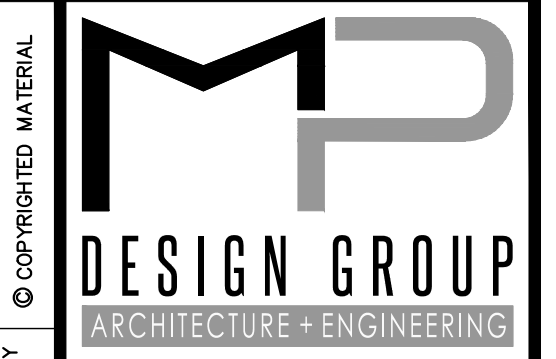
2 PIER SOUTH ELEVATION

NOT TO SCALE



3 PIER NORTH ELEVATION

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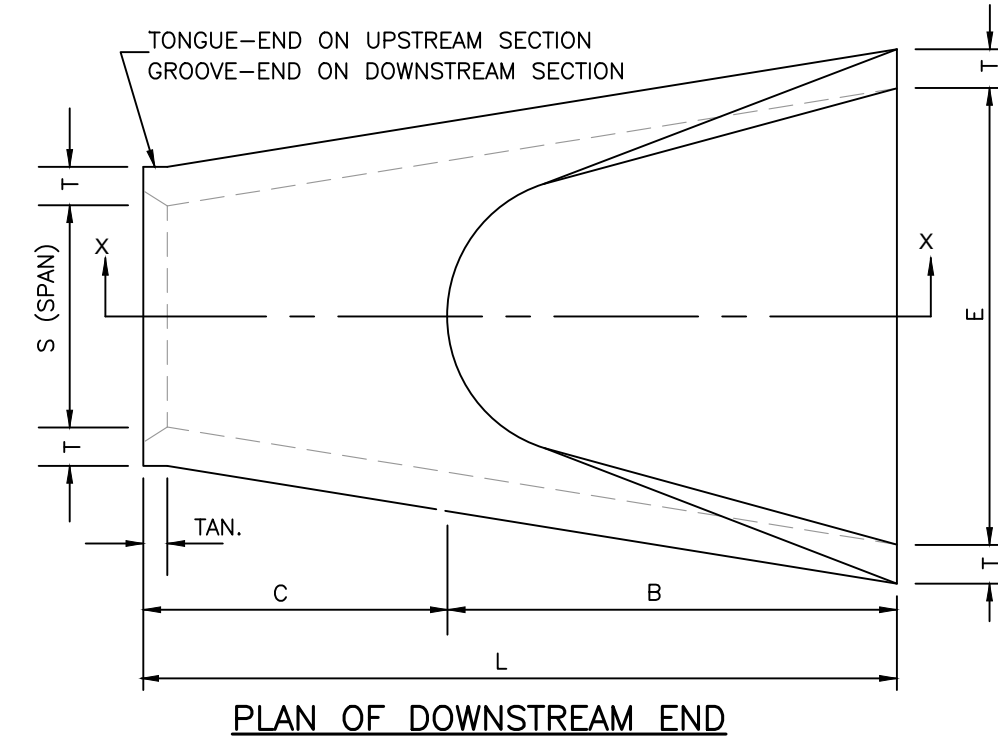
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GENERAL NOTES

1. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.
2. UNLESS OTHERWISE DESIGNATED, EITHER TYPE I OR TYPE II MAY BE USED, PROVIDED THE SELECTED TYPE IS COMPATIBLE WITH THE CONFIGURATION OF THE PIPE TO WHICH IT IS TO BE ATTACHED.
3. ALL SIZES OF TYPE I AND TYPE II FLARED END SECTIONS FOR CONCRETE ARCH PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.
4. REINFORCEMENT (SINGLE LINE) FOR FLARED END SECTION SHALL CONFORM TO REQUIREMENTS OF AASHTO M 206 FOR CLASS II ARCH PIPE.
5. TOE WALL REQUIRED ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE-MINOR STRUCTURES.
6. FLARED END SECTIONS MUST MEET THE REQUIREMENTS FOR ARCH PIPE OF EITHER AASHTO M 206 OR ASTM C 506.

TABLE OF QUANTITIES

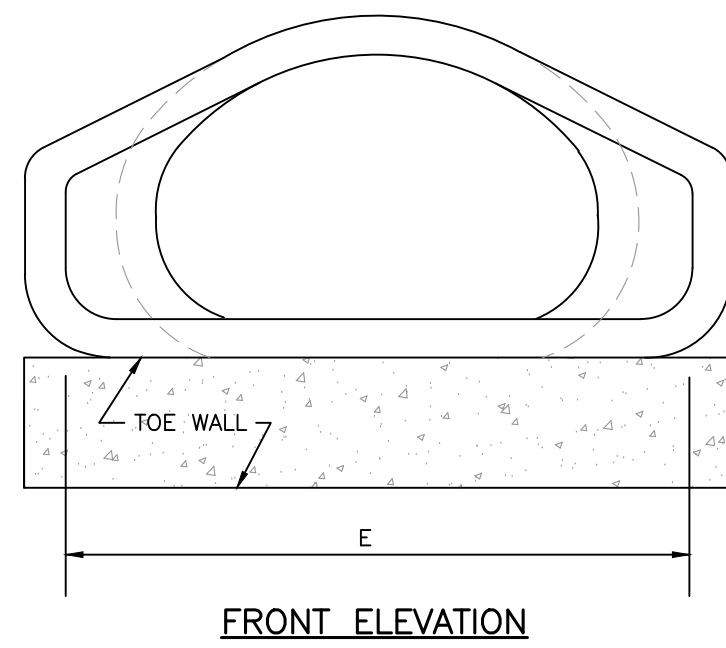
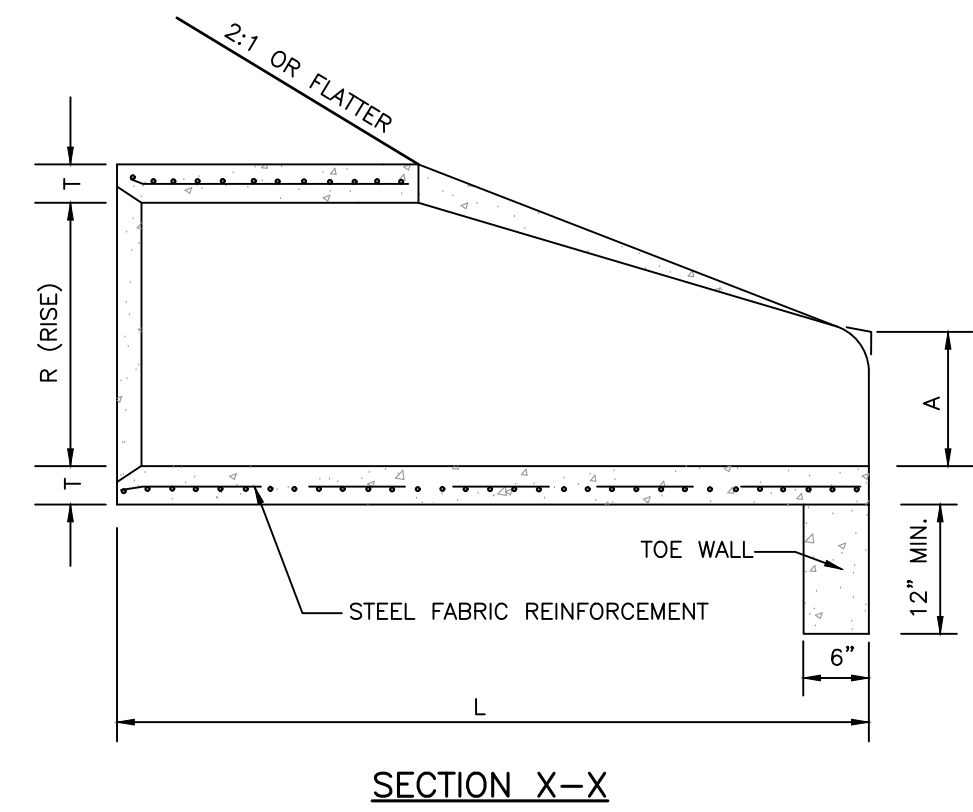
TOE WALL CONC. QUANTITY (yd ³)
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.207



NOTE
 BELL-END ON DOWNSTREAM SECTION
 SPIGOT-END ON UPSTREAM SECTION.

TABLE OF DIMENSIONS
 FLARED END SECTION FOR CONCRETE ARCH PIPE

EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L
18"	1 3/4"	22"	2 1/2"	3:1	7"	2'-3"	3'-9"	3'-0"	6'-0"
24"	18"	28 1/2"	3"	3:1	8"	3'-3"	2'-9"	4'-0"	6'-0"
30"	22 1/2"	36 1/2"	3 1/2"	3:1	10"	4'-0"	2'-0"	5'-0"	6'-0"
36"	26 1/2"	43 1/2"	4"	3:1	10 3/8"	5'-0"	3'-0"	6'-0"	8'-0"
42"	31 1/8"	51 1/2"	4 1/2"	3:1	1'-3 3/8"	5'-0"	3'-0"	6'-6"	8'-0"
48"	36"	58 1/2"	5"	3:1	1'-9"	5'-0"	3'-0"	7'-0"	8'-0"
54"	40"	65"	5 1/2"	3:1	2'-1 1/2"	5'-0"	3'-0"	7'-6"	8'-0"
60"	45"	73"	6"	3:1	2'-2"	6'-3"	1'-9"	8'-0"	8'-0"
72"	54"	88"	7"	3:1	2'-11"	6'-6"	1'-10"	10'-0"	8'-4"

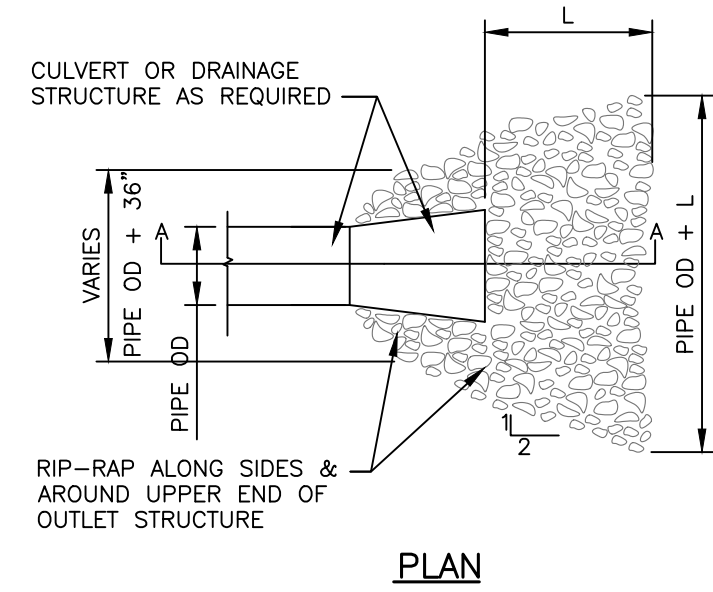


1 FLARED END SECTION (F.E.S.) FOR REINFORCED CONCRETE ARCH PIPE (RCAP)

NOT TO SCALE

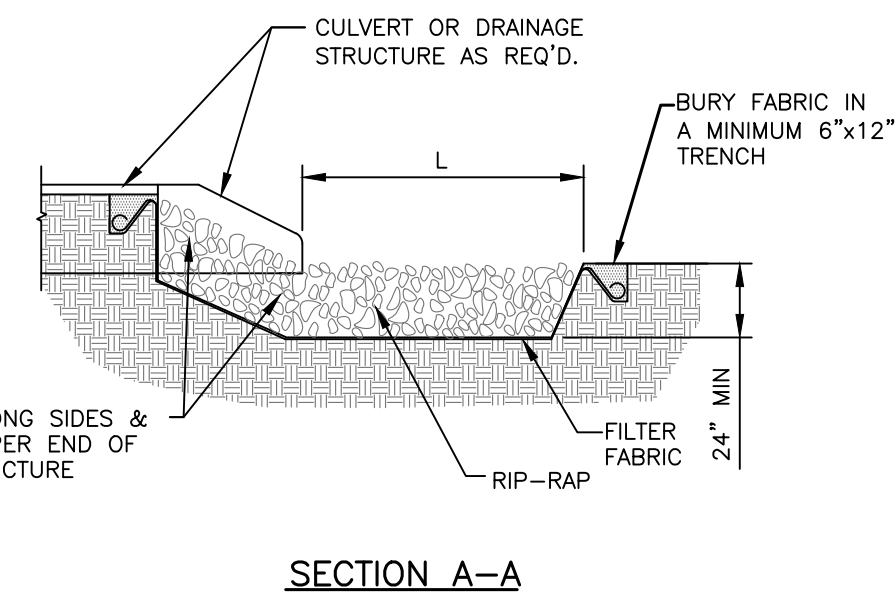
RIP-RAP DETAIL NOTES

1. RIP-RAP IS REQUIRED AT ALL FLARED END SECTION AND HEADWALLS LOCATIONS
2. GEOTEXTILE FILTER FABRIC IS REQUIRED BETWEEN THE RIP-RAP AND SUB-GRADE.
3. IN A WELL-DEFINED CHANNELS, EXTEND THE RIP-RAP APRON UP THE CHANNEL BANKS ABOVE THE TAILWATER ELEVATION.



RIP-RAP LENGTH TABLE

PIPE DIA.	L (FT)
15"	5'
18"	8'
24"	10'
30"	12'
36"	14'
42"	16'
48"	18'
60"	20'
72"	22'

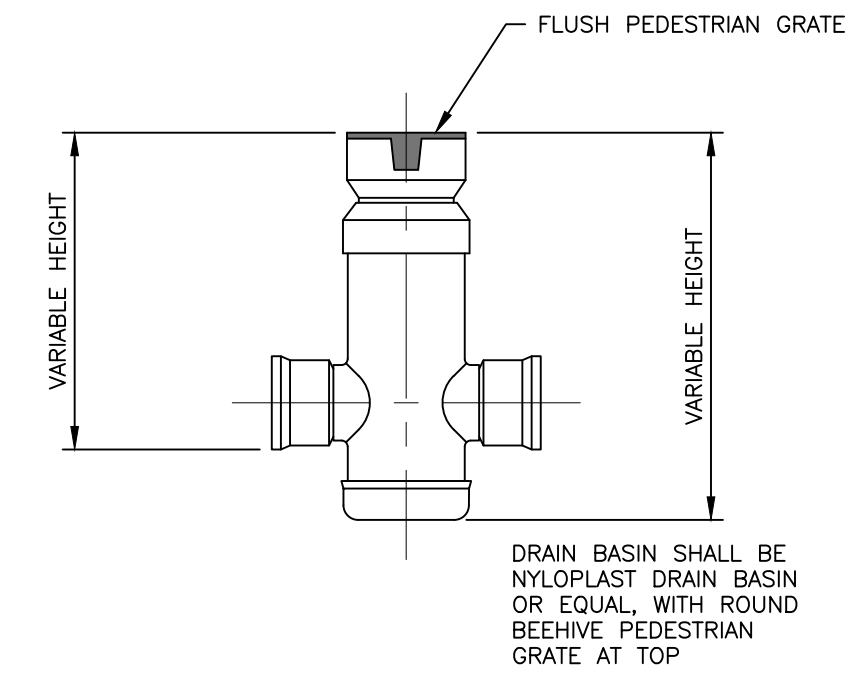


2 TYPICAL RIP-RAP OUTFALL DETAIL

NOT TO SCALE

3 DRAIN BASIN DETAIL

NOT TO SCALE



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SITE GRADING AND DRAINAGE DETAILS

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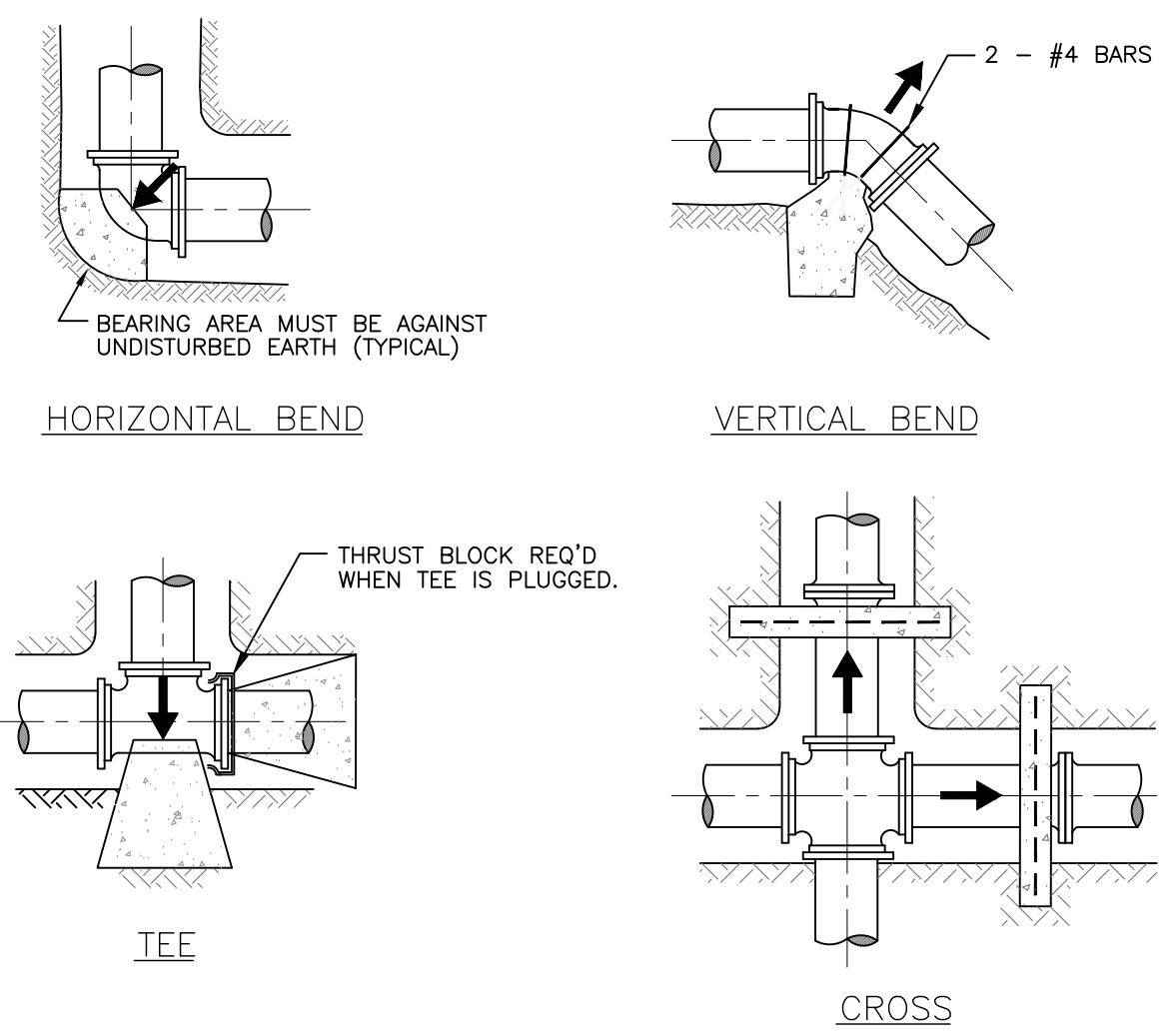
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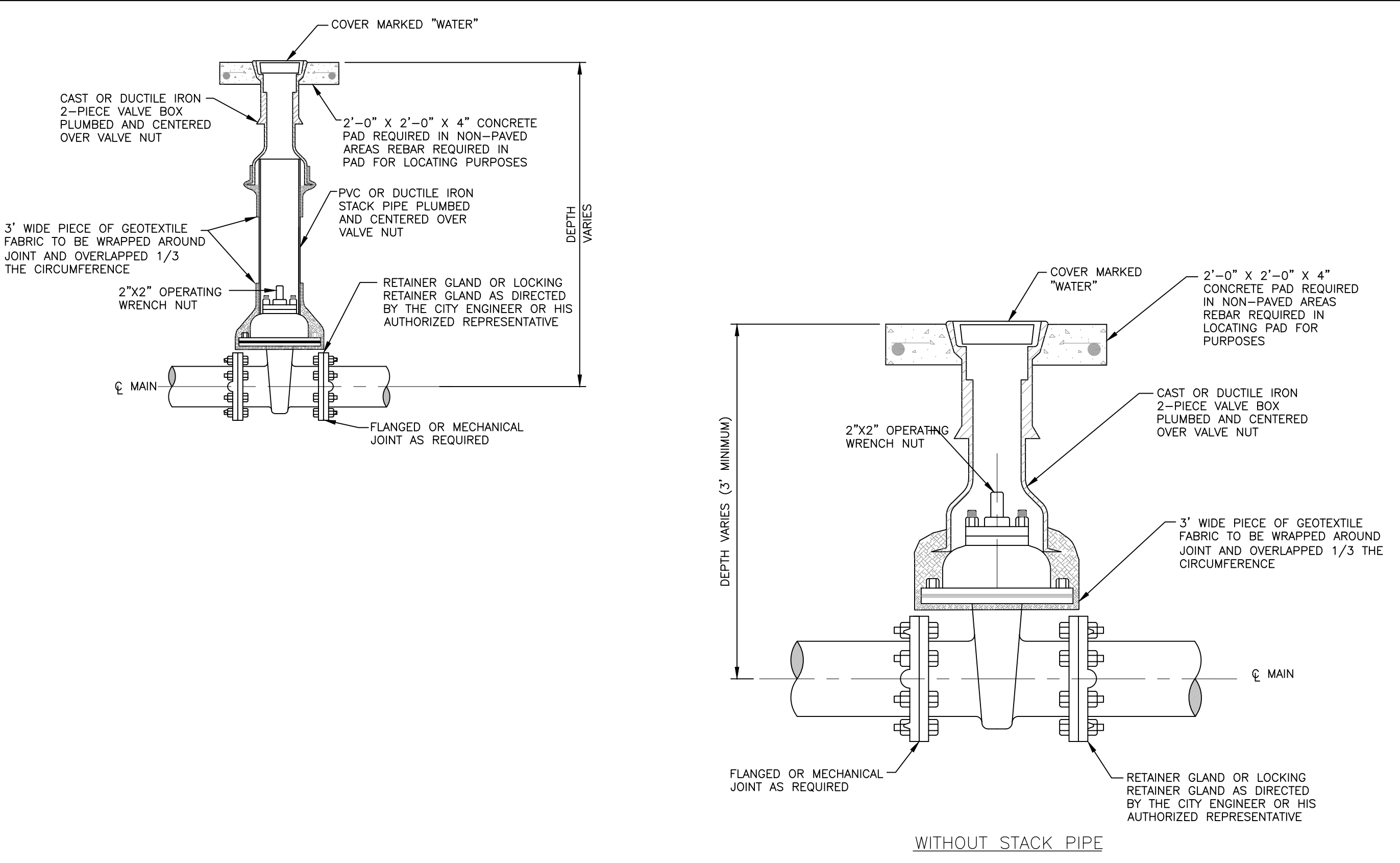
WATER MAIN THRUST BLOCK NOTE

ALL FITTINGS SHALL BE COVERED WITH A GEOTEXTILE FABRIC PRIOR TO POURING CONCRETE THRUST BLOCKING

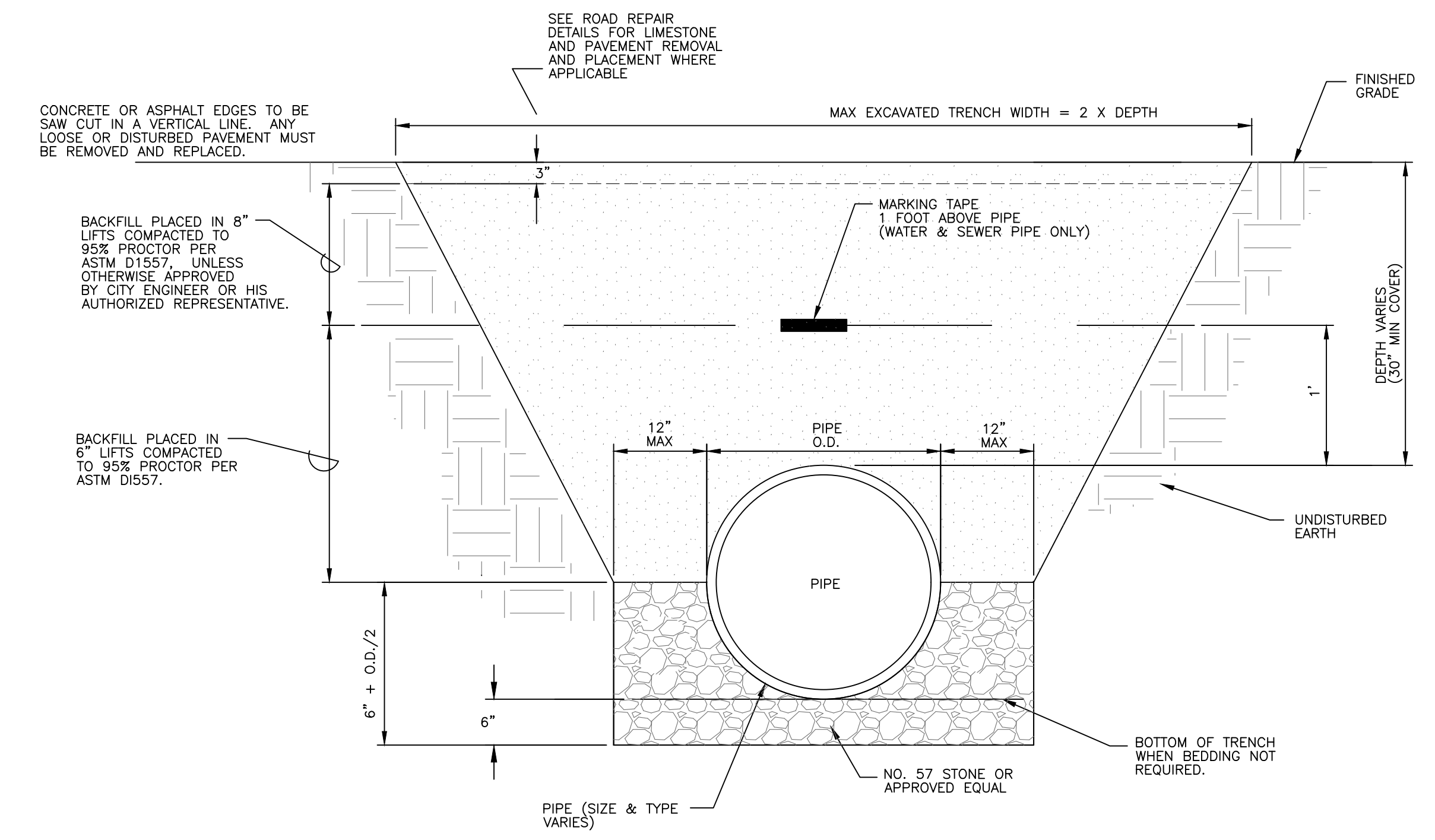


FITTING:	4" DIA.	6" DIA.	8" DIA.	10" DIA.	12" DIA.	14" DIA.
TEES	2.0	2.5	4.7	5.0	7.0	9.0
90°	2.0	2.7	6.7	7.2	10.4	12.7
45°	1.0	1.5	3.6	3.9	5.6	6.9
22 1/2°	1.0	1.0	1.8	2.0	2.9	3.5

1 WATER MAIN THRUST BLOCK DETAILS NOT TO SCALE



2 IN-LINE WATER VALVE AND VALVE BOX WITH AND WITHOUT STACK PIPE DETAIL NOT TO SCALE



- GENERAL NOTES**
- PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL EARTHWORK SECTION AND ANY OTHER SECTION THAT MAY APPLY OR AS DIRECTED BY THE ENGINEER OF RECORD. TYPE AND LOCATION OF BEDDING SHALL BE DETERMINED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
 - BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
 - "MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BORROW FOR BACKFILL, LIMESTONE, AND PAVING. PIPE BEDDING SHALL BE PAID BASED ON A WIDTH OF TWO FEET PLUS THE OUTSIDE DIAMETER FOR THE PIPE (O.D. OF PIPE + 2 FEET) AS SHOWN ON THE DETAIL. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS TRENCH REMAINS WITHIN THE PROJECT LIMITS, PROPERTY OR EASEMENT AND THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.
 - IN THE CASE OF OVERLAPPING UTILITY TRENCHES, THE CONTRACTOR SHALL ONLY BE PAID ONCE FOR ITEMS SUCH AS LIMESTONE AND PAVING. ADDITIONALLY ANY MARKING TAPE ABOVE SEWER PIPE THAT IS DISTURBED OR DAMAGED BY OVERLAPPING TRENCHES SHALL BE PROPERLY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
 - TOP OF PIPE SHALL BE BELOW ROAD BASE IN PAVED AREAS. IF EXISTING MATERIAL IS USED FOR BACKFILL, THERE SHALL BE NO ADDITIONAL PAYMENT FOR EXCAVATION AND BACKFILL. IF EXISTING MATERIAL IS UNSUITABLE FOR BACKFILL, BORROW MATERIAL SHALL BE USED. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EXCESS EXCAVATION. APPROVED PLACEMENT OF BORROW SHALL BE PAID FOR AT THE UNIT PRICE BID FOR BORROW MATERIAL.

- STORM DRAIN PIPE PLACEMENT NOTES**
- STORM DRAIN PIPE SHALL BE CONCRETE, RIBBED PVC OR HIGH DENSITY POLYETHYLENE IN ACCORDANCE WITH THE SPECIFICATIONS OR AS SHOWN ON THE PLANS. LOCATION FOR INSTALLATION OF TYPE OF PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. ONLY CONCRETE STORM DRAIN PIPE SHALL BE INSTALLED UNDER PAVED AREAS UNLESS SHOWN DIFFERENTLY ON THE CONSTRUCTION PLANS.
 - ALL STORM DRAIN JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. FABRIC SHALL BE THREE (3') FEET WIDE (CENTERED OVER JOINT) AND LONG ENOUGH TO WRAP AROUND THE PIPE JOINT AND OVERLAP 1/3 THE CIRCUMFERENCE. THE COST OF FABRIC SHALL BE ABSORBED IN THE UNIT PRICE BID FOR STORM DRAIN PIPE AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
 - REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.

3 TRENCH DETAIL FOR SANITARY SEWER AND NON-PERFORATED STORM DRAIN PIPE NOT TO SCALE