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

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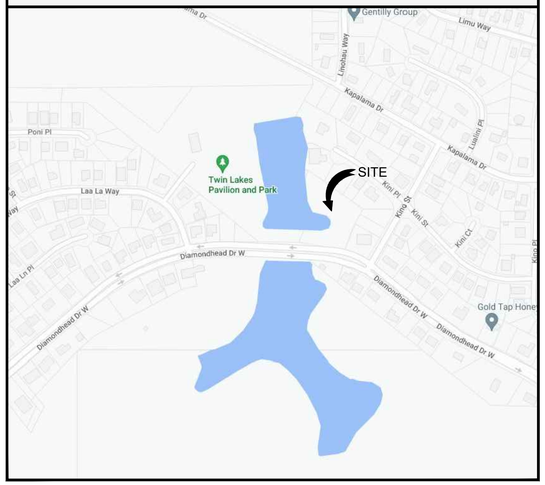
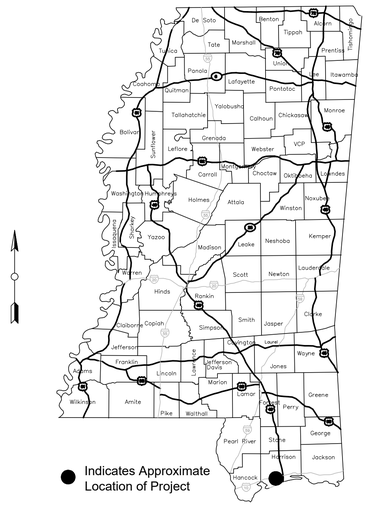
VICINITY MAP





LOCATION MAP

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"Designed to Build"
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PLANS WITHOUT REGISTERED ENGINEER/ARCHITECT STAMP AND SIGNATURE ARE CONSIDERED "NOT FOR CONSTRUCTION" AND SHALL NOT BE USED IN ANY MANNER FOR CONSTRUCTION OR PERMITTING OF SAID PROJECT.

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

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

TITLE SHEET

NO.	DATE	REVISION / SUBMITTAL
REV A	08.12.22	OWNER REVIEW SET

T001

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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GENERAL CONDITIONS

1. STEEL FRAME IS NON–SELF–SUPPORTING AND COLUMN ANCHOR RODS ARE DESIGNED FOR A COMPLETED CONDITION ONLY. A COMPLETED STRUCTURE IS REQUIRED TO PROVIDE LATERAL STABILITY FOR THE FRAME AND RESISTANCE TO WIND AND SEISMIC FORCES. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY OF STRUCTURAL SYSTEM.
2. FOUNDATIONS WERE DESIGNED BASED ON A SOIL PRESSURE OF 1500 PSF.
3. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, THE SPECIFICATIONS, OR INFORMATION IN DRAWINGS, THE MORE RIGID REQUIREMENT SHALL GOVERN UNLESS AMENDED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

SUBMITTALS

1. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL.
2. SUBMIT ALL SHOPS DRAWINGS & OTHER SUBMITTALS IN PDF FORMAT OR HARD COPY. IF HARD COPY IS SUBMITTED, PROVIDE 3 SETS ONLY. ALL OTHERS WILL BE RETURNED UNMARKED. MACHADO PATANO WILL RETURN 1 MARKED SET TO THE CONTRACTOR.
3. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
    a. PRE–ENGINEERED METAL BUILDING (*)
    b. CONCRETE REINFORCING STEEL
    c. CONCRETE MIX DESIGN
4. DESIGN CALCULATIONS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER'S RECORD, DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING ITEMS:
    a. PRE–ENGINEERED METAL BUILDING

FOUNDATIONS AND SLABS ON GRADE

1. PREPARE AREA BY STRIPPING OF ALL GRAVEL, VEGETATION, TOPSOIL AND OTHER ORGANIC MATERIAL, AND DEBRIS. REMOVE EXISTING STRUCTURES, FOUNDATIONS, CONCRETE, ETC. IN WAY OF FOUNDATIONS. AFTER MAKING REQUIRED CUTS/EXCAVATIONS, COMPACT EXPOSED SUBGRADE PER GEOTECHNICAL RECOMMENDATIONS. ANY UNSTABLE OR SOFT AREAS SHALL BE OVER–EXCAVATED AND STABILIZED.
2. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING COMPACTION/PROOFROLLING ACTIVITIES AND SHALL INSPECT SUBGRADE PRIOR TO PLACEMENT OF ANY FILL MATERIAL.
3. COMPACTED FILL PLACEMENT SHALL BE INSPECTED CONTINUOUSLY BY THE CONTRACTORS SELECTED (OWNER APPROVED) INDEPENDENT TESTING AGENCY.
4. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY OF ANY ENCOUNTERED BASE MATERIAL OF QUESTIONABLE BEARING CAPACITY.
5. ALL SELECT FILL MATERIAL UNDER STRUCTURES SHALL CONFORM WITH GEOTECHNICAL REPORT REQUIREMENTS, UNLESS NOTED OTHERWISE IN PLANS. MATERIAL SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR PER ASTM D1557. MOISTURE AND DENSITY SHALL BE FIELD TESTED PRIOR TO PLACEMENT OF ADDITIONAL FILL.
6. PRIOR TO PLACEMENT OF CONCRETE, PREPARED AREAS SHALL BE INSPECTED AND APPROVED BY THE CONTRACTORS SELECTED (OWNER APPROVED) INDEPENDENT TESTING AGENCY AND THE STRUCTURAL ENGINEER OF RECORD.
7. PROVIDE A 15–MIL POLYETHYLENE FILM VAPOR BARRIER BELOW INTERIOR SLABS–ON–GRADES UNLESS NOTED OTHERWISE.
8. CONCRETE MIX SHALL BE DESIGNED TO DEVELOP THE FOLLOWING STRENGTH MEASURED AT 28 DAYS:
    a. FOUNDATIONS/FOOTINGS: 3,500 PSI
    b. SLABS ON GRADE: 3,500 PSI
9. CONTRACTOR SHALL VERIFY ALL IN SLAB FIXTURE DIMENSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS. ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED.
10. CONDUIT SHALL NOT BE PLACED WITHIN THE SLAB ON GRADE. CONDUIT SHALL BE INSTALLED BELOW THE SLAB ON GRADE AND 6" CLEAR BELOW FOOTINGS. PIPES AND DUCTS SHALL NOT EXCEED ONE–THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
11. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIAL FINISHES, INCLUDING BUT NOT LIMITED TO MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
12. ALL HONEY–COMBING, SPALLS, CRACKS, ETC. SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
13. CONTROL JOINTS SHALL BE ADDED IN CONCRETE SLABS ON GRADE AT A RECOMMENDED SPACING AS INDICATED ON PLANS.
14. CONSTRUCTION JOINTS SHALL BE ADDED AS REQUIRED TO PREVENT THE FORMATION OF CONCRETE COLD JOINTS DURING PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS SHALL BE INSTALLED IN LOCATIONS WHERE THE CONCRETE PLACEMENT OPERATION IS SCHEDULED FOR SEVERAL SEPARATE PLACEMENTS OR WHEREVER THE CONCRETE PLACEMENT IS DELAYED A SUFFICIENT AMOUNT OF TIME.
15. UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE.
16. ALL DETAILS SHOWN ARE TYPICAL, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
17. COORDINATE ALL CONSTRUCTION PLANS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS.

REINFORCING STEEL

1. WELDED WIRE MATERIAL SHALL COMPLY WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) A185 STANDARD SPECIFICATIONS. SUPPORT WELDED WIRE MATERIAL AT THE PROPER DEPTH PRIOR TO PLACING CONCRETE WITH MINIMUM CLEARANCES AS NOTED BELOW AND WITH APPURTENANCES NOTED BELOW.
2. WELDED WIRE FABRIC SHALL BE AS INDICATED ON DRAWINGS. WELDED WIRE MATERIAL SHALL BE LAPPED ONE FULL MESH PANEL PLUS TWO (2) INCHES AT SIDES AND ENDS AND WIRED TOGETHER. LAP ALL SIDES AND ENDS EIGHT (8) INCHES, MINIMUM.
3. MINIMUM COVER (OR CONCRETE PROTECTION) OF ALL CONCRETE REINFORCEMENT MEASURED FROM THE FINISHED CONCRETE FACE TO THE SOIL SHALL BE THREE (3) INCHES FOR FOOTINGS AND GRADE BEAMS (BOTTOM AND SIDE) AND THREE (3) INCHES BOTTOM AND SIDE FOR SLAB ON GRADE.
4. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE A.C.I. MANUAL OF PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 315.
5. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE (IAW) CRSI "PLACING REINFORCING BARS", LATEST EDITION. REINFORCING BARS SHALL BE ASTM A615 GRADE 60.
6. THE LAP SPLICE DEVELOPMENT LENGTH OF STEEL REINFORCEMENT SHALL BE ACHIEVED AND MADE TO DEVELOP FULL STRENGTH OF THE REINFORCEMENT STEEL. WHERE SPLICES IN REINFORCING ARE NECESSARY, REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS IN INCHES (MINIMUM). ALL BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. SPLICES SHALL CONFORM TO A.C.I. 318, LATEST REVISION.
7. REINFORCEMENT STEEL SHALL BE STORED IN SUCH MANNER TO PREVENT EXPOSURE TO THE ELEMENTS AND SHALL BE FREE OF RUST BEFORE PLACEMENT. REINFORCEMENT STEEL SHALL NOT BE WELDED.
8. ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND USING REBAR CHAIRS OR OTHER APPROVED METHODS. CONCRETE BLOCK OR BRICK MAY BE USED.
9. OUTER BAR OF FOUNDATION REINFORCEMENTS SHALL BE CONTINUOUS AROUND CORNERS OR BY BENDING THE BAR, MINIMUM BAR LAP SHALL BE 48 BAR DIAMETER.
10. PROVIDE ONE (1) #4 HOOP WITH 8" LAP IN SLAB AROUND ALL FLOOR DRAINS.

CAST IN PLACE CONCRETE

1. CONCRETE MIX SHALL BE DESIGNED TO DEVELOP STRENGTH OF 3,500 PSI TESTED AT 28 DAYS.
2. CONTRACTOR SHALL VERIFY ALL IN SLAB FIXTURE DIMENSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS. ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED. ALL FOUNDATION PENETRATIONS SHALL BE THROUGH THICKENED SLAB EDGE OR 6" CLEAR BELOW FOOTING. CONDUIT SHALL NOT BE PLACED WITHIN THE SLAB ON GRADE. CONDUIT SHALL BE INSTALLED BELOW THE SLAB ON GRADE. PIPES AND DUCTS SHALL NOT EXCEED ONE–THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
3. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIAL FINISHES, INCLUDING BUT NOT LIMITED TO MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS. CONCRETE SHALL BE PLACED ON COMPACTED FILL OR OTHER SURFACES. SOIL POISONING SHALL BE APPLIED TO THE COMPACTED SOIL UNDER CONCRETE SLAB AREA PRIOR TO PLACEMENT OF THE VAPOR BARRIER (SEE ARCHITECTURAL DRAWINGS/ SPECIFICATIONS FOR DETAILS). VAPOR BARRIER DAMP PROOFING SHALL BE MINIMUM 10–MIL POLYETHYLENE SHEETING INSTALLED WITHIN BUILDING AREA ON TOP OF THE COMPACTED SOIL PRIOR TO PLACING SLAB CONCRETE.
4. ALL HONEY–COMBING, SPALLS, CRACKS, ETC. SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH A ¾" DEGREE CHAMFER, UNLESS NOTED OTHERWISE.
6. REFER TO PLANS FOR CONTROL JOINT LOCATIONS. CONSTRUCTION JOINTS MAY BE ADDED AS REQUIRED TO PREVENT THE FORMATION OF CONCRETE COLD JOINTS DURING PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS SHALL BE INSTALLED IN LOCATIONS WHERE THE CONCRETE PLACEMENT OPERATION IS SCHEDULED FOR SEVERAL SEPARATE PLACEMENTS OR WHEREVER THE CONCRETE PLACEMENT IS DELAYED A SUFFICIENT AMOUNT OF TIME TO FORM A CONCRETE COLD JOINT.
7. SLABS ON GRADE SHALL BE A THICKNESS AND REINFORCING AS SHOWN ON PLANS. REINFORCING AS SHOWN ON PLANS AND SHALL BE HELD SECURELY FROM THE GROUND USING REBAR CHAIRS OR OTHER APPROVED METHODS (CUT CONCRETE BRICK OR MAY BE USED) TO ENSURE MESH STAYS AT DEPTH INTENDED.
8. UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE.
9. ANCHOR RODS SHALL CONFORM TO ASTM F1554 STANDARDS, NUTS SHALL CONFORM TO ASTM A563 STANDARDS AND WASHERS TO ASTM F436 STANDARDS.
10. ALL DETAILS SHOWN ARE TYPICAL, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
11. COORDINATE ALL CONSTRUCTION PLANS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS.

TIMBER

1. ROOF AND BEAM TIMBER SHALL BE NO. 2 SOUTHERN YELLOW PINE (SYP) (OR EQUIVALENT).
2. EXTERIOR WALL TIMBER SHALL BE 2X6, NO. 2 SOUTHERN YELLOW PINE (SYP) STUD GRADE (EQUIVALENT) AT 16 INCHES ON CENTER, MAXIMUM.
3. TOP PLATE TIMBER SHALL BE NO. 2 SOUTHERN YELLOW PINE (SYP) (OR EQUIVALENT).
4. BOTTOM SILL PLATE SHALL BE TREATED NO. 2 SOUTHERN YELLOW PINE (SYP) (OR EQUIVALENT).
5. PLYWOOD SHEATHING:
    5.1. EACH CONSTRUCTION AND INDUSTRIAL PANEL SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS1, DOC PS2 OR ANSI/APA PRP 210. EACH PANEL SHALL BE IDENTIFIED FOR GRADE, BOND CLASSIFICATION AND PERFORMANCE CATEGORY BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.
    5.2. ALL PANELS WHICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE CLASSED EXTERIOR TYPE EXCEPT THAT WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE EXPOSURE 1 TYPE.
    5.3. WOOD STRUCTURAL PANEL COMPONENTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE APPLICABLE STANDARDS LISTED IN SECTION 2306.1, OF THE INTERNATIONAL BUILDING CODE 2012 EDITION (IBC 2012) AND IDENTIFIED BY THE TRADEMARKS OF AN APPROVED TESTING AND INSPECTION AGENCY INDICATING CONFORMANCE TO THE APPLICABLE STANDARD.
    5.4. ROOF PANELS SHALL BE 23/32" APA EXP1 RATED (3–PLY) EXTERIOR GRADE PLYWOOD DECKING NAILED 4" ON EDGES AND 6" FIELD WITH 10d NAILS HAVING A 1 1/2" PENETRATION.
    5.5. EXTERIOR SHEATHING SHALL CONSIST OF A STRUCTURAL 1 RATED SHEATHING, 24/16 PANEL SPAN RATING, 5/8" THICK, WITH AN 8d NAIL SIZE SPACING OF 6" ON EDGE AND 6" FIELD WITH A MINIMUM PENETRATION OF 1–3/4"
6. SECURE EACH ROOF TRUSS/RAFTER TO TOP PLATE WITH APPROPRIATE HURRICANE CONNECTOR (SEE TYPICAL WALL SECTIONS FOR CALLOUTS).
7. ALL WOOD STRUCTURAL CONNECTORS INSTALLED SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE STRUCTURAL CONNECTORS OR EQUIVALENT.
8. PROVIDE HURRICANE STRAPS AT TOP OF EACH DOOR AND WINDOW FRAME OPENING AS REQUIRED BY IBC 2018.
9. AS DESIGNED, ALL EXTERIOR STUDS ARE PRECUT 2x6's U.N.O. ON PLANS.

MATERIAL SPECIFICATIONS

– ANCHOR BOLTS	Fy	= 55,000 PSI (ASTM F1554)
– EMBEDDED STEEL	Fy	= 36,000 PSI (ASTM A36)
– CAST IN PLACE CONCRETE		
– FOOTINGS AND PILE CAPS	F'c	= 3,500 PSI IN 28 DAYS
– INTERIOR SLABS ON GRADE	F'c	= 3,500 PSI IN 28 DAYS
– EXTERIOR EXPOSED CONC. (AIR ENTRAINED)	F'c	= 3,500 PSI IN 28 DAYS
– REINFORCING STEEL		
– #3 OR LARGER	Fy	= 60,000 PSI (ASTM A615, GRADE 60) (ASTM A616 (St), GRADE 60)
– WELDED WIRE FABRIC	ASTM A185 (FLAT SHEETS ONLY)	

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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL
DIAMONDHEAD DRIVE WEST
DIAMONDHEAD, MS 39525

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

GENERAL CONSTRUCTION REQUIREMENTS

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REV A	08.12.22	OWNER REVIEW SET

A-101

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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SITE DEMOLITION NOTES

1. THE CONTRACTOR SHALL CALL MISSISSIPPI ONE CALL (1-800-227-6477) BY LAW TO LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO THE START OF HIS WORK.
2. CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROLS DURING THE ENTIRE COURSE OF WORK AS DETAILED ON THE STORM WATER POLLUTION PREVENTION PLANS. AND IN ACCORDANCE WITH THE STATE STORM WATER POLLUTION PREVENTION REQUIREMENTS.
3. ALL MATERIALS TO BE DEMOLISHED SHALL BE RECYCLED OR SALVAGED ACCORDING TO THE CONTRACTOR'S WASTE MANAGEMENT PLAN. ALL OTHER MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF SITE IN A LEGAL LANDFILL. CONTRACTOR IS NOT ALLOWED TO STOCKPILE NON-RECYCLED OR NON-SALVAGED DEMOLITION MATERIALS ON SITE. ALL MATERIALS SHALL BE REMOVED IN A TIMELY FASHION.
4. WITHIN THE LIMITS OF WORK AND THE VICINITY OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FENCING AROUND TREES TO REMAIN AND PROTECT SAID TREES DURING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ASSOCIATED UTILITY COMPANY AND COORDINATING ANY REQUIRED DISCONNECTS AND/OR CONNECTIONS TO EXISTING UTILITIES.
6. FINAL SITE CLEARING - THE SITE SHALL BE CLEAR OF ALL DEBRIS, DEMOLITION RELATED AND NON-RELATED (SITE TRASH).

SURVEY LEGEND

IRF	DENOTES IRON ROD FOUND
IPF	DENOTES IRON PIPE FOUND
IRS	DENOTES IRON ROD SET
CMF	DENOTES CONCRETE MONUMENT FOUND
(MEAS)	DENOTES MEASURED THIS SURVEY
(DEED)	DENOTES PER RECORDED DEED
	DENOTES TRAFFIC SIGN
MB	DENOTES MAILBOX
WV	DENOTES WATER VALVE
W	DENOTES WATER METER
	DENOTES WATER METER
CO	DENOTES SANITARY SEWER CLEANOUT
S	DENOTES SANITARY SEWER MANHOLE
	DENOTES UTILITY POLE
	DENOTES UTILITY POLE GUY WIRE
FO	DENOTES FIBER OPTIC JUNCTION BOX
G	DENOTES GAS VALVE
ohe	DENOTES OVERHEAD POWER LINE
fo	DENOTES FIBER OPTIC LINE
w	DENOTES WATER LINE
ss	DENOTES GRAVITY SEWER LINE
g	DENOTES GAS LINE

STORMWATER POLLUTION PREVENTION NOTES

1. STOCKPILE TOPSOIL REMOVED FROM ROADWAY AREAS FOR USE LATER IN PLANTING PERMANENT GRASS ON ALL DISTURBED AREAS NOT USED AS PAVED ROADS, BUILDINGS ETC. CONTRACTOR SHALL PERFORM STOCKPILE PROTECTION AS REQUIRED TO PREVENT EROSION AND LOOSE DIRT FROM BEING WASHED FROM THE STOCKPILE.
2. CONTRACTOR SHALL STAGE, TIME AND SEQUENCE CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
3. AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR SHALL STABILIZE THE SOIL. FOR LONG, NARROW AREAS OR STEEP GRADES (GREATER THAN 3:1), THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF PERMITS OBTAINED FOR SAID ACTIVITY AND MAY BE SUBJECT TO CORRECTIVE ACTION BY THE LOCAL, STATE OR FEDERAL GOVERNING AUTHORITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF SAID EROSION CONTROL ITEMS AT NO CHARGE TO THE OWNER.
5. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES MANUAL FROM THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY, LATEST EDITION.
6. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES MANUAL FROM THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY, LATEST EDITION.
7. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
8. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL, STATE OR FEDERAL GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
9. PLACE STONE CHECK DAM IN ALL NATURAL OR CREATED DRAINAGEWAYS WHERE PIPES DISCHARGE WATER TO TRAP SEDIMENT ON SITE AND DO NOT ALLOW IT TO GO ONTO ADJACENT PROPERTY. ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE INSTALLED BY A METHOD ACCEPTABLE TO THE ENGINEER AND/OR TO THE LOCAL, STATE OR FEDERAL GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER.
10. SEED ALL SWALES AND DITCHES TO SOME TYPE OF PERMANENT GRASS WHERE SLOPE OF LAND DOES NOT EXCEED 2%.
11. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING BASINS, GRAVEL FILTERS, SILT FENCE AND TRAPS SHALL BE INSPECTED EVERY 7 DAYS AND AFTER ALL RAINFALLS IN EXCESS OF 0.5". AN INSPECTION REPORT SHALL BE MADE ON EACH OCCASION, NOTING CONDITION OF ALL STRUCTURES AND OUTLINING ANY REQUIRED MAINTENANCE. ALL STRUCTURES SHALL BE CLEANED AND REESTABLISHED WHEN SEDIMENT REACHES 50% OF STORAGE CAPACITY.
12. THE CONTRACTOR SHALL BE FAMILIAR WITH, AND KNOWLEDGEABLE OF, ALL FEDERAL, STATE, AND LOCAL CODES, REQUIREMENTS, REGULATIONS AND SPECIFICATIONS REGARDING THE CONSTRUCTION OF THIS PROJECT. ALL MATERIALS, WORKMANSHIP, INSTALLATION AND RESTORATION SHALL MEET OR EXCEED MINIMUM REQUIREMENTS. LACK OF DETAILS ON THE PLANS OR ABSENCE OF SPECIFIC INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF COMPLYING WITH ALL APPLICABLE CODES, REQUIREMENTS AND SPECIFICATIONS.
13. PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING OF THE WATER DISTRIBUTION SYSTEM.
14. CUT OR FILL SLOPES WHICH EXCEED (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED DAILY UNTIL THE SLOPE IS BROUGHT TO GRADE.
15. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. ANY ADDITIONAL TEMPORARY CONTROL DEVICES THAT MAY BE REQUIRED SHALL BE PROVIDED AS PART OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER.
16. THE PROPOSED WORK ITEMS SHOWN ON THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF ENSURING THAT ALL LOCAL, STATE AND FEDERAL REQUIREMENTS FOR STORM WATER POLLUTION PREVENTION, WATER QUALITY AND ILLEGAL POINT SOURCE DISCHARGE ARE STRICTLY ADHERED TO. ANY AND ALL ACTION NECESSARY TO BE IN COMPLIANCE WITH ALL REGULATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SEQUENCING OF SITE WORK AND RELATED EROSION CONTROL DEVICES

THE CONSTRUCTION PHASE SHOULD BE DIVIDED INTO THREE PHASES OF BEST MANAGEMENT PRACTICES IMPLEMENTATION (BMP). THE FOLLOWING IS A SUGGESTED PHASING PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE CONSTRUCTION PLANS, MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY BEST MANAGEMENT PRACTICES MANUAL, LATEST EDITION AND ANY OTHER INFORMATION THAT MAY BE RELEVANT TO THE IMPLEMENTATION AND PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN BEST SUITED FOR THIS PROJECT:

PHASE I: START UP AND PERIMETER CONTROLS

- CONTRACTOR SHALL POST ALL SITE AND STORMWATER CONTROL PERMITS AS REQUIRED BY EACH INDIVIDUAL PERMIT.
- CONTRACTOR SHALL INSTALL PERIMETER CONTROLS. PREFERABLY, THESE SHOULD BE INSTALLED AFTER CLEARING AND PRIOR TO ANY GRUBBING OF THE SITE. FOR LARGER AREAS, CLEARING OF AN AREA THE WIDTH OF A BULLDOZER AND INSTALLING THE PERIMETER CONTROLS SHOULD BE PERFORMED PRIOR TO CLEARING THE INTERIOR PORTIONS OF THE SITE.
- HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE (1) WEEK PRIOR TO STARTING CONSTRUCTION AND PERFORM WEEKLY REVIEWS OF THE EROSION SEDIMENT AND STORMWATER CONTROL PLAN.
- REMOVE VEGETATION, UNDERGROWTH AND TOP SIX (6) INCHES OF ORGANIC MATERIAL FROM THE SITE AND STOCKPILE TOPSOIL. CONTRACTOR SHALL PERFORM STOCKPILE PROTECTION AS REQUIRED TO PREVENT LOOSE DIRT FROM BEING WASHED FROM THE STOCKPILE.
- PLACE TEMPORARY SANITARY FACILITIES AND DUMPSTERS.

PHASE II: INTERMEDIATE CONTROLS

- INTERMEDIATE CONTROLS ARE IMPLEMENTED FROM GRUBBING TO FINAL GRADE. THIS INCLUDES INSTALLATION OF SUBSURFACE DRAINAGE, INLETS AND UTILITIES AND BRINGING THE SITE TO FINAL GRADE. DURING THIS PHASE, THE EXTENT AND DURATION OF EXPOSURE OF UN-STABILIZED AREAS IS GREATEST. THE CONTRACTOR SHALL TAKE ANY ADDITIONAL MEASURES REQUIRED TO PREVENT ADDITIONAL STORMWATER OR SEDIMENTATION RUNOFF AT NO ADDITIONAL COST TO THE OWNER.

PHASE III: FINAL CONTROLS

- THESE CONTROLS ARE IMPLEMENTED TO ACHIEVE FINAL STABILIZATION OF THE SITE. THE CONSTRUCTION OF HARD SURFACES AND FINAL PAVEMENT, STRUCTURES AND UTILITIES ARE INSTALLED. THIS PHASE ESTABLISHES THE PERMANENT VEGETATION, RETENTION/DETENTION PONDS FACILITIES AND THE INSTALLATION OF ANY OUTLET PROTECTIONS, ENERGY DISSIPATERS ROCK CHECK DAMS, ETC. AT FINAL STABILIZATION, USEPA (1992) GUIDELINES STATES THAT PERMANENT VEGETATION MUST BE UNIFORMLY ESTABLISHED ON AT LEAST 70 PERCENT OF SOIL SURFACES NOT COVERED WITH EROSION-RESISTANT SURFACES (PAVEMENTS, BUILDINGS, ETC.). ALL PERMANENT DRAINAGE IMPROVEMENTS MUST BE INSTALLED AND TESTED TO VERIFY THAT THEY PERFORM AS DESIGNED. THE STORMWATER MANAGEMENT SYSTEM SHOULD BE CHECKED AND CLEANED OF ANY ACCUMULATED SEDIMENTS. TEMPORARY BMP'S NOT REQUIRED AS PART OF THE PERMANENT STABILIZATION OR BMP PLAN SHALL BE REMOVED AND PROPERLY DISPOSED OF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY AND ALL SEDIMENT, DEBRIS, ETC., FROM THE STORMWATER INLETS, PIPE SYSTEMS, RETENTION/DETENTION PONDS, ETC. AS MAY BE REQUIRED TO CREATE A FULLY FUNCTIONAL STORMWATER MANAGEMENT SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

OTHER POLLUTION SOURCES CONTROL NOTES

1. MAINTENANCE AND REPAIR OF CONSTRUCTION EQUIPMENT SHALL BE CONFINED TO ONE AREA - LOCATED ON A LEVEL AREA, AS FAR FROM CREEKS AND WETLANDS AREAS AS POSSIBLE. STORAGE CONTAINERS AND WASTE DISPOSAL RECEPTACLES SHALL BE PROVIDED AT THIS AREA FOR OILS, FUELS, GREASE, SOLVENTS, ETC., THAT ARE USED ON THE SITE. THE MAINTENANCE AREA SHALL BE INSPECTED AND CLEANED DAILY. DISPOSAL RECEPTACLES SHALL BE EMPTIED WEEKLY, PROPERLY AND IN A LEGAL MANNER.
2. ANY FUEL STORAGE TANKS KEPT ON THE SITE SHALL BE PROVIDED WITH SECONDARY CONTAINMENT; THIS SHALL CONSIST OF A PAN UNDER THE TANK, LINED CONTAINMENT AREA WITH BERMS OR CONCRETE CONTAINMENT AREA, TO CONTAIN ANY LEAKAGE OR SPILLAGE WHICH MAY OCCUR FROM THE TANK DURING USE AND NON-USE TIMES.
3. TRASH RECEPTACLES AND OTHER WASTE-HOLDING FACILITIES SHALL BE UTILIZED AT ONE OR TWO LOCATIONS ON THE PROJECT SITE TO CONTAIN WASTES AND PREVENT ITS MOVEMENT DOWN-GRADE OR OFFSITE. THESE FACILITIES SHALL BE EMPTIED AND WASTE DISPOSED OF ON A WEEKLY BASIS, OR MORE OFTEN AS NEEDED.
4. THE CONTRACTOR SHALL TAKE NECESSARY ACTION AS REQUIRED TO MINIMIZE THE TRACKING OF MUD/SOIL ONTO THE PAVED ROADWAY FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
5. WASHING OF CONSTRUCTION VEHICLES ON THE SITE WILL NOT BE ALLOWED. VEHICLES SHALL BE TRANSPORTED TO THE CONTRACTOR'S YARD AND WASHED AS NEEDED.
6. THE STORAGE OF ALL HAZARDOUS MATERIALS, FERTILIZERS, CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS SHALL BE LOCATED IN AN ISOLATED, LEVEL AREA, FAR FROM CREEK/WETLAND AREAS, WHERE THEY WILL NOT CAUSE POLLUTION DUE TO RUNOFF FROM THEM DURING RAINFALL EVENTS AND SHALL BE STORED IN A HAZMAT APPROVED FACILITY. ALL MSDS SHEETS FOR EACH HAZARDOUS MATERIAL SHALL BE KEPT IN THE HAZMAT STORAGE FACILITY AND A COPY OF THE MSDS SHEET SHALL BE KEPT IN THE GENERAL CONTRACTOR'S OFFICE. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS AND ACIDS, SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN TO PREVENT ACCIDENTAL SPILLAGE DURING USE OF THE MATERIALS. CONTAINERS SHALL NOT BE WASHED IN OR NEAR FLOWING STREAMS OR STORMWATER HANDLING SYSTEMS (INLETS, DITCHES, PONDS, ETC.).
7. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED FOR WORKERS ON THE SITE IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THESE FACILITIES SHALL BE REGULARLY EMPTIED AND MAINTAINED AND PLACED AWAY FROM CREEKS/WETLANDS AS FAR AS POSSIBLE AND ANCHORED TO PREVENT OVERTURNING, AS NEEDED.
8. CONTRACTOR SHALL PERFORM A DAILY WALK THRU OF THE PROJECT SITE TO PICK UP ANY LOOSE DEBRIS, LITTER OR TRASH AND DISPOSE OF ALL ITEMS IN THE WASTE RECEPTACLES SHOWN.

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH TWO SETS OF "AS-BUILT" DRAWINGS PRIOR TO REQUESTING A FINAL INSPECTION. THE "AS-BUILT" DRAWINGS SHALL SHOW THE LOCATIONS OF ALL SEWER AND WATER STRUCTURES, LINES, BENDS, AND APPURTENANCES. GRADES ON STORM SEWER LINES SHALL ALSO BE FURNISHED ON "AS-BUILT" DRAWINGS.
2. INSTALLATION OF ANY GRAVITY FLOW PIPE, SUCH AS SANITARY SEWER OR STORM DRAIN, SHALL REQUIRE THAT THE CONTRACTOR START AT THE LOWEST CONNECTION POINT ELEVATION, AND WORK IN THE UPHILL DIRECTION. IF, IN THE BEST INTEREST OF THE PROJECT, THE CONTRACTOR WISHES TO INITIATE PIPE LAYING AT SOME LOCATION OTHER THAN THE LOWEST CONTROL, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM A SATISFACTORY CONNECTION TO THE LOWEST CONTROL, PRIOR TO BEGINNING CONSTRUCTION AT SOME POINT OTHER THAN THE LOWEST CONTROL ELEVATION, THE CONTRACTOR SHALL REQUEST, IN WRITING, AND RECEIVE, IN WRITING, APPROVAL FROM THE DESIGN ENGINEER, WHOSE NAME APPEARS ON THESE PLANS. SANITARY SEWER MAINS OR SERVICES WITH LESS THAN THREE FEET OF COVER SHALL BE DUCTILE IRON PIPE. WHEREVER A SANITARY SEWER SERVICE CROSSES OVER OR UNDER A STORM DRAIN PIPE AND/OR A WATER MAIN, THE SERVICE SHALL BE EXTENDED A MINIMUM OF FIVE FEET BEYOND THE FURTHEST PIPELINE. IN NO CASE, WITHOUT THE ENGINEERS WRITTEN APPROVAL, SHALL THE CONTRACTOR TERMINATE THE SANITARY SEWER SERVICE AT A LOCATION THAT WOULD REQUIRE THE BUILDING PLUMBER TO CROSS THE STORM DRAIN PIPE AND/OR WATER MAIN.

SITE NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR THIS PROJECT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR DEMOLITION.
2. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO ALL TREE ROOTS DURING ENTRENCHING AND ANY OTHER CONSTRUCTION THAT MAY ENDANGER THE HEALTH OF THE TREES ACCORDING TO THE LOCAL MUNICIPALITIES REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ANY AND ALL UTILITY COMPANIES IN REGARDS TO UTILITIES THAT MAY NEED TO BE RELOCATED AS PART OF THIS WORK.
4. CONTRACTOR SHALL PROVIDE PROPER TRAFFIC CONTROL WARNING SIGNS THROUGH THE DURATION OF THE PROJECT. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION.
5. CONTRACTOR SHALL NOTIFY ALL AGENCIES AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY ROAD CLOSINGS. THIS NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, POLICE, FIRE AND SCHOOL ALONG WITH ALL REGULATORY AND GOVERNMENTAL AGENCIES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PUBLIC NOTICE OF EACH ROAD CLOSING. CONTRACTOR SHALL FOLLOW ALL GUIDELINES FOR PUBLIC NOTICE AS ESTABLISHED BY CITY, COUNTY AND/OR STATE OFFICIALS. ANY DELAY IN CONSTRUCTION DUE TO CONTRACTOR NOT NOTIFYING THE PROPER AUTHORITIES OR NOT FOLLOWING THE REGULATORY AGENCY REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. IF TRAFFIC INTERRUPTIONS ARE REQUIRED, THEY SHALL BE KEPT TO A MINIMUM AND THE CONTRACTOR SHALL BE SUBJECT TO LOCAL LAWS IN REGARDS TO TRAFFIC INTERRUPTIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF TREES SHOWN TO REMAIN. CONTRACTOR SHALL PROTECT TREES AS REQUIRED BY THE LOCAL MUNICIPALITIES TREE ORDINANCE AND/OR LAND DEVELOPMENT CODE.
9. ALL PERVIOUS AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE NEW SOD OR SHALL BE SEEDED OR MULCHED. MINIMUM, AFTER COMPLETION AND APPROVAL OF WORK IN THAT AREA.
10. CONTRACTOR SHALL INSTALL HANDICAP PARKING, SYMBOLS AND RAMPS PER A.D.A. REQUIREMENTS.
11. CONTRACTOR SHALL STRIPE ALL HANDICAP PARKING SPACES BLUE. ALL OTHER STRIPING SHALL BE WHITE.
12. ANY EXISTING SITE DEBRIS AND/OR EXISTING STRUCTURES SHALL BE COMPLETELY REMOVED PRIOR TO CONSTRUCTION AS PER DEMOLITION PLAN.

SITE LAYOUT NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AS SHOWN ON THE PLANS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
2. EXTREME CARE HAS BEEN TAKEN IN DETERMINING LAYOUT DIMENSIONS. CONTRACTOR SHALL ONLY SCALE AREAS IN WHICH NO DIMENSION IS SHOWN. CONTRACTOR SHALL VERIFY SCALE AND CONTACT ENGINEER IF ANY DISCREPANCIES OCCUR. IN NO CASE SHALL CONTRACTOR SCALE THE DRAWING TO OVERRIDE A SHOWN DIMENSION.
3. CONTRACTOR SHALL CONSULT AND VERIFY ALL BUILDING DIMENSIONS WITH THE BUILDING PLANS AND THE FOUNDATION PLANS. IF ANY DISCREPANCIES ARISE, THE BUILDING PLANS AND/OR THE FOUNDATION PLAN OVERRIDE ANY DIMENSIONS ON THIS PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ENGINEER IF ANY SAID DISCREPANCIES MAY AFFECT THE LAYOUT OF THE SITE PLAN.

SITE GRADING & DRAINAGE NOTES

1. EXISTING CONTOUR INTERVALS SHOWN ARE ONE FOOT (1').
2. PROPOSED CONTOUR INTERVALS SHOWN ARE ONE FOOT (1').
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, ETC., AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS AND REPLACING ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL LOCAL GOVERNING CODES AND SHALL COMPLY WITH SAID CODES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN THE EXISTING CONDITIONS.

UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL PROJECT RELATED UTILITIES, BURIED AND ABOVE GROUND, REGARDLESS OF INCLUSION ON THESE PLANS. THE LOCATIONS OF ANY EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ALL CONTRACTOR DAMAGED UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR STUB OUT OF ALL UTILITIES TO WITHIN 5' OF THE BUILDING. SITE CONTRACTOR SHALL COORDINATE LOCATION AND STUB OUT REQUIREMENTS PER ARCHITECTURAL/PLUMBING/ELECTRICAL, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION. TIE IN LOCATIONS WERE SHOWN AS PER SURVEY OR LOCATED/PROVIDED BY LOCAL UTILITY AUTHORITY AND EXACT LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UTILITY DEPARTMENT TO VERIFY LOCATION OF SEWER AND WATER CONNECTIONS.
3. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION HAVING POTENTIAL IMPACT TO THE UTILITY'S STRUCTURE.
4. WATER SERVICE SHALL BE MAINTAINED TO ALL EXISTING CUSTOMERS; IF ANY SERVICE MUST BE INTERRUPTED, THE AFFECTED CUSTOMERS SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE BY THE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE A MINIMUM COVER OF 36", MINIMUM, ON ALL WATER MAINS.
6. NEW WATER MAIN SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND STORM DRAIN PIPES, WHERE CROSSINGS OCCUR. WATER MAIN SHALL BE ROUTED OVER STORM PIPE WHEREVER POSSIBLE.
7. ALL WATER LINE FITTINGS 4 INCHES IN DIAMETER AND LESS SHALL BE OF THE SAME MATERIAL AS THE PIPE (i.e., PVC) AND SHALL BE CONSISTENT THEREWITH IN STRENGTH, DIMENSIONS AND FUNCTION.
8. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL BENDS AND FITTINGS (SEE DETAIL SHEET).
9. CONTRACTOR SHALL INSTALL LOCATOR WIRE AROUND ALL NEW INSTALLED PIPE AND FITTINGS.
10. ALL PROPOSED POTABLE WATER LINE FITTINGS, FIRE HYDRANTS AND ALL OTHER WATER LINE PIPING MATERIALS AND FITTINGS FOR THIS PROJECT SHALL BE AWWA APPROVED.
11. CONTRACTOR SHALL INSTALL ALL WATER LINES AND FITTINGS AS PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
12. EXISTING WATER AND SANITARY SERVICE LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THESE LINES LOCATED AND COORDINATE TIE IN LOCATIONS WITH THE BUILDING CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING BUILDING SANITARY SEWER PIPE ELEVATION AND DETERMINE THE ELEVATION REQUIRED TO CONNECT TO THE EXISTING SEWER LINES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL SEWER LINES TO INSURE POSITIVE FLOW OF SEWER LINES.
15. THESE PLANS ARE SUBJECT TO APPROVAL BY THE LOCAL GOVERNING MUNICIPALITY AND ANY OTHER GOVERNING AUTHORITY.
16. ENGINEER HAS ATTEMPTED TO UTILIZE APPARENT EXISTING UTILITIES ON THE SITE, HOWEVER THE FUNCTION OR FEASIBILITY OF UTILIZING THESE APPARENT UTILITIES HAS NOT BEEN FIELD VERIFIED. THE ENGINEER DOES NOT WARRANT TO THE OWNER OR THE CONTRACTOR THAT THESE UTILITIES CAN BE USED. THIS SHOULD BE FIELD VERIFIED BY THE CONTRACTOR AND BE ACCOUNTED FOR APPROPRIATELY IN THE COSTING OF THE PROJECT.

MISSISSIPPI ONE CALL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION (INCLUDING BUT NOT LIMITED TO: WATER LINES, SEWER LINES, ELECTRICAL AND TELECOMMUNICATION LINES, AND FIBER OPTIC CABLES.)

MISSISSIPPI ONE CALL SYSTEM
SERVICE AT:
1-800-227-6477
OR
www.ms811.org

AT LEAST 3 DAYS BEFORE ANY CONSTRUCTION

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

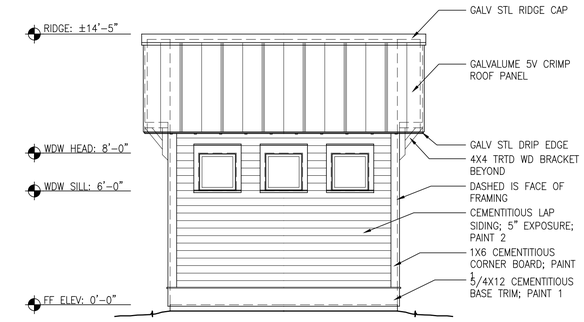
SCALE: AS INDICATED
PROJECT NO: 0275.20.004
DRAWN BY: JGP
CHECKED BY: GWK

GENERAL NOTES AND LEGENDS

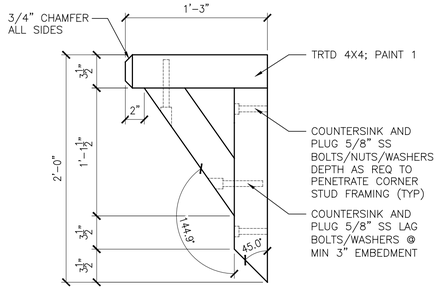
NO.	DATE	REVISION / SUBMITTAL
REV A	08.12.22	OWNER REVIEW SET

C001

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



3 SIDE ELEVATIONS
SCALE: 1/4" = 1'-0"



4 BRACKET DETAIL
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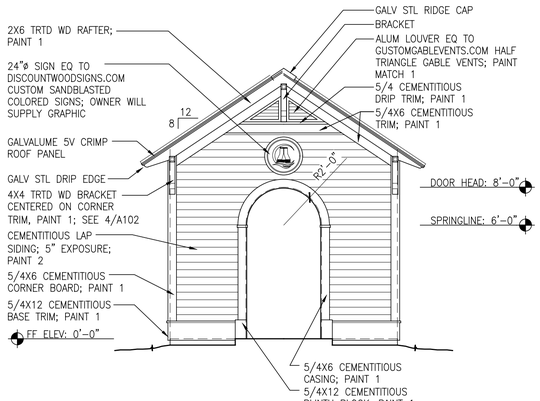

2 FRONT & REAR ELEVATIONS
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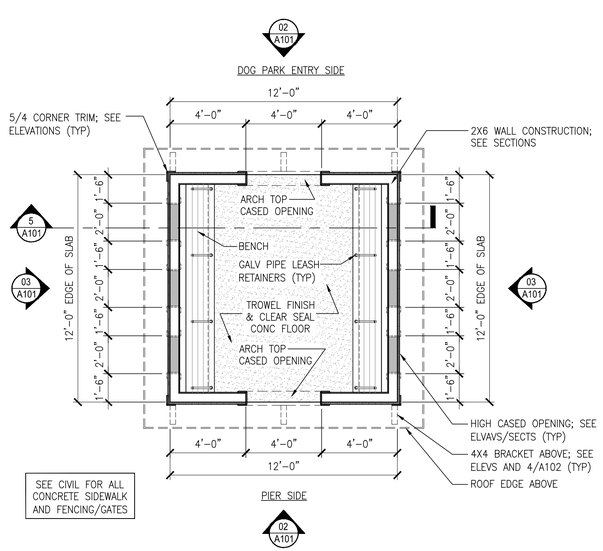

1 FLOOR PLAN
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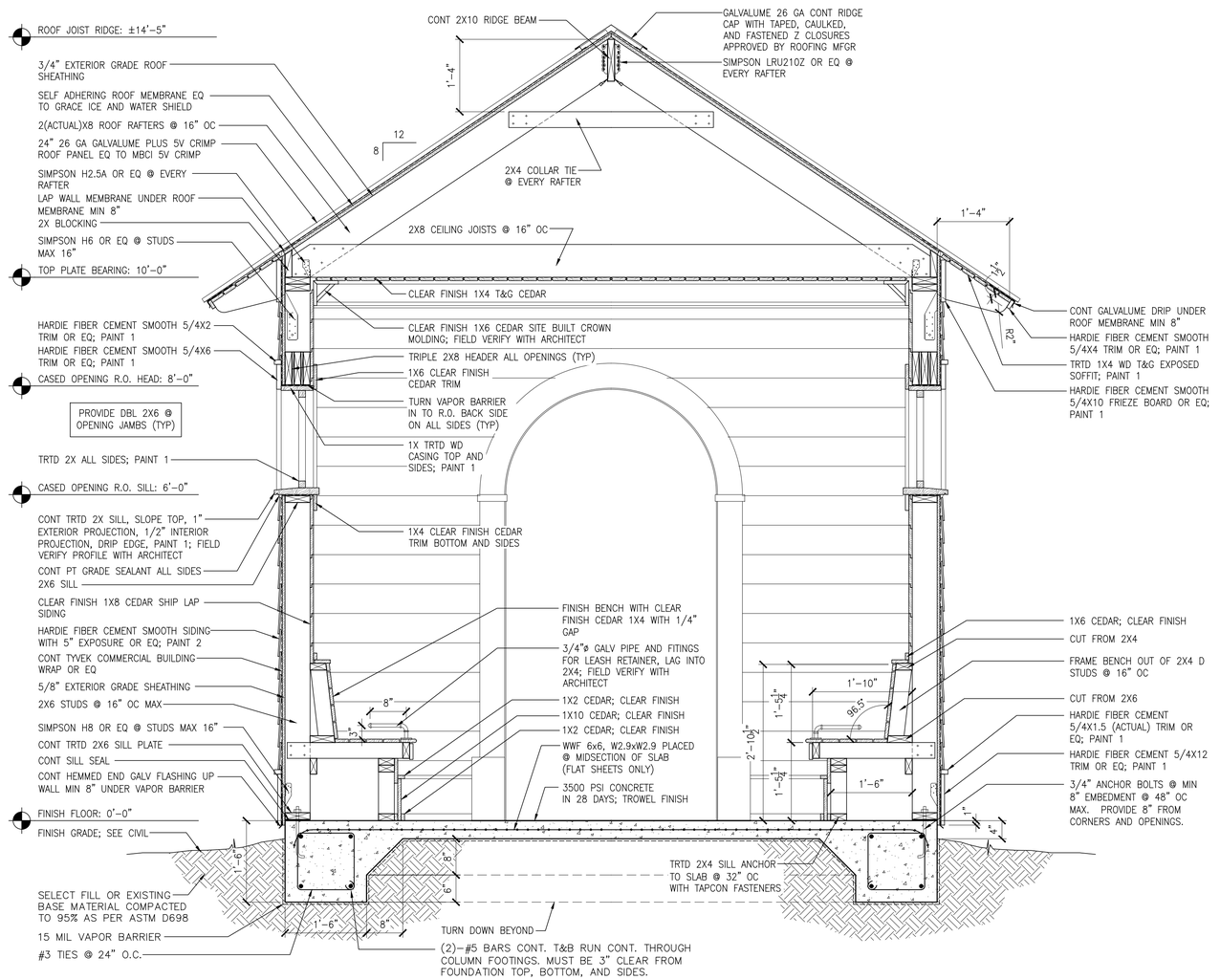

5 BUILDING SECTION
SCALE: 3/4" = 1'-0"

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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL
DIAMONDHEAD DRIVE WEST
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SCALE: AS INDICATED
PROJECT NO: 0275.20.004
DRAWN BY: BAJ
CHECKED BY: GWK

ENTRY PAVILION PLANS, ELEVATIONS, SECTIONS, & DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV A	08.17.22	OWNER REVIEW SET

A-102

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

Summary of Quantities

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	Mobilization	1	LS		
2	Clearing and Grubbing	1	AC		
3	Removal of Pipe (All Sizes)	20	LF		
4	Removal of Obstructions	10	CY		
5	Maintenance of Erosion Control	1	LS		
6	Construction Entrance/Exit	1	EA		
7	Temporary Silt Fence	1200	LF		
8	Temporary Inlet Protection	3	EA		
9	Unclassified Excavation (PM)(AH)	1000	CY		
10	Import Borrow Fill Material (PM)	3000	CY		
11	Entry Building	1	LS		
12	5' Tall Architectural Fence	1100	LF		
13	Wooden Post Barrier	170	LF		
14	Wooden Pier	1	LS		
15	Hot Bituminous Pavement, Surface Course	800	SY		
16	"610" Crushed Aggregate Base Course	165	CY		
17	Blue Parking Striping	200	LF		
18	Concrete Wheelstops	8	EA		
19	Concrete Pavement	40	SY		
20	Concrete Sidewalk	200	SY		
21	Truncated Dome Detectable Warning	2	EA		
22	Handicap Signage	4	EA		
23	Decorative Brick Pavers	50	SY		
24	Concrete Mudslab	50	SY		
25	Select Sand	50	SY		
26	Concrete Ribbon Curb	90	LF		
27	Concrete Splash Pad	2	EA		
28	Concrete Wash Station	1	EA		
29	Hitching Post	2	EA		
30	Water Fountain	2	EA		
31	1" SCH.40 PVC Pipe	420	LF		
32	4" SDR 26 PVC Pipe	120	LF		
33	8" SDR 26 PVC Pipe	155	LF		
34	12" SDR 26 PVC Pipe	75	LF		
35	22"X13" Reinforced Concrete Arch Pipe	120	LF		
36	22"X13" Reinforced Concrete Arch Pipe Flared End Section	2	EA		
37	Nyloplast Drain Basin	4	EA		
38	Solid Sodding, 419 Bermuda	5000	SY		
39	2" Thick Topsoil	5000	SY		
40	100 LB Rip Rap	100	SY		

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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL

DIAMONDHEAD DRIVE WEST
DIAMONDHEAD, MS 39525

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

SUMMARY OF QUANTITIES

NO.	DATE	REVISION / SUBMITTAL
REV A	08.12.22	OWNER REVIEW SET

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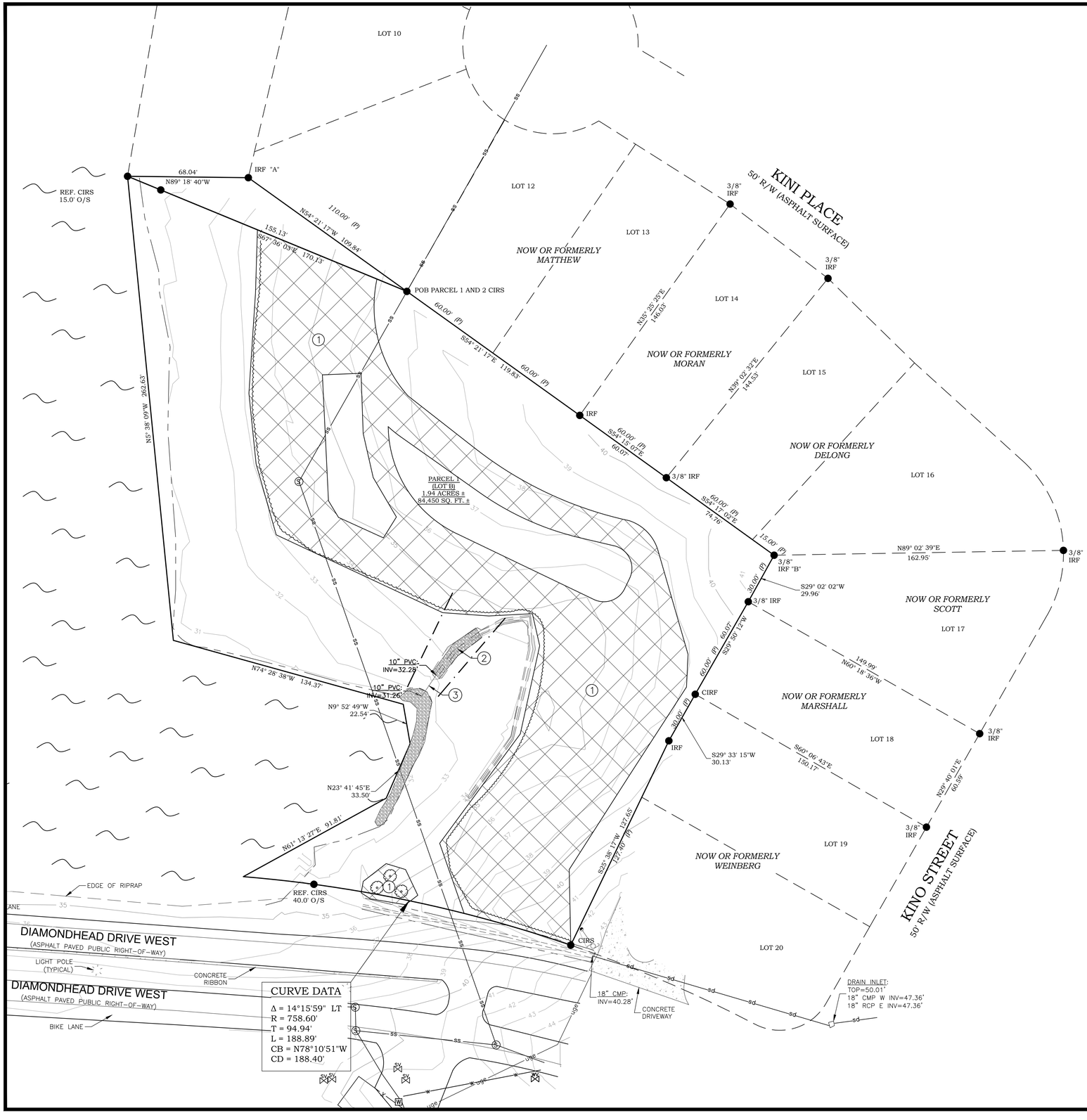

DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL REMOVE EXISTING RIP RAP. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
3. CONTRACTOR SHALL REMOVE EXISTING STORM DRAIN PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.

DEMOLITION LEGEND

DENOTES CLEARING AND GRUBBING AREA

0' 15' 30' 60'
GRAPHIC SCALE
1" = 30'

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EXISTING CONDITIONS AND SITE DEMOLITION PLAN

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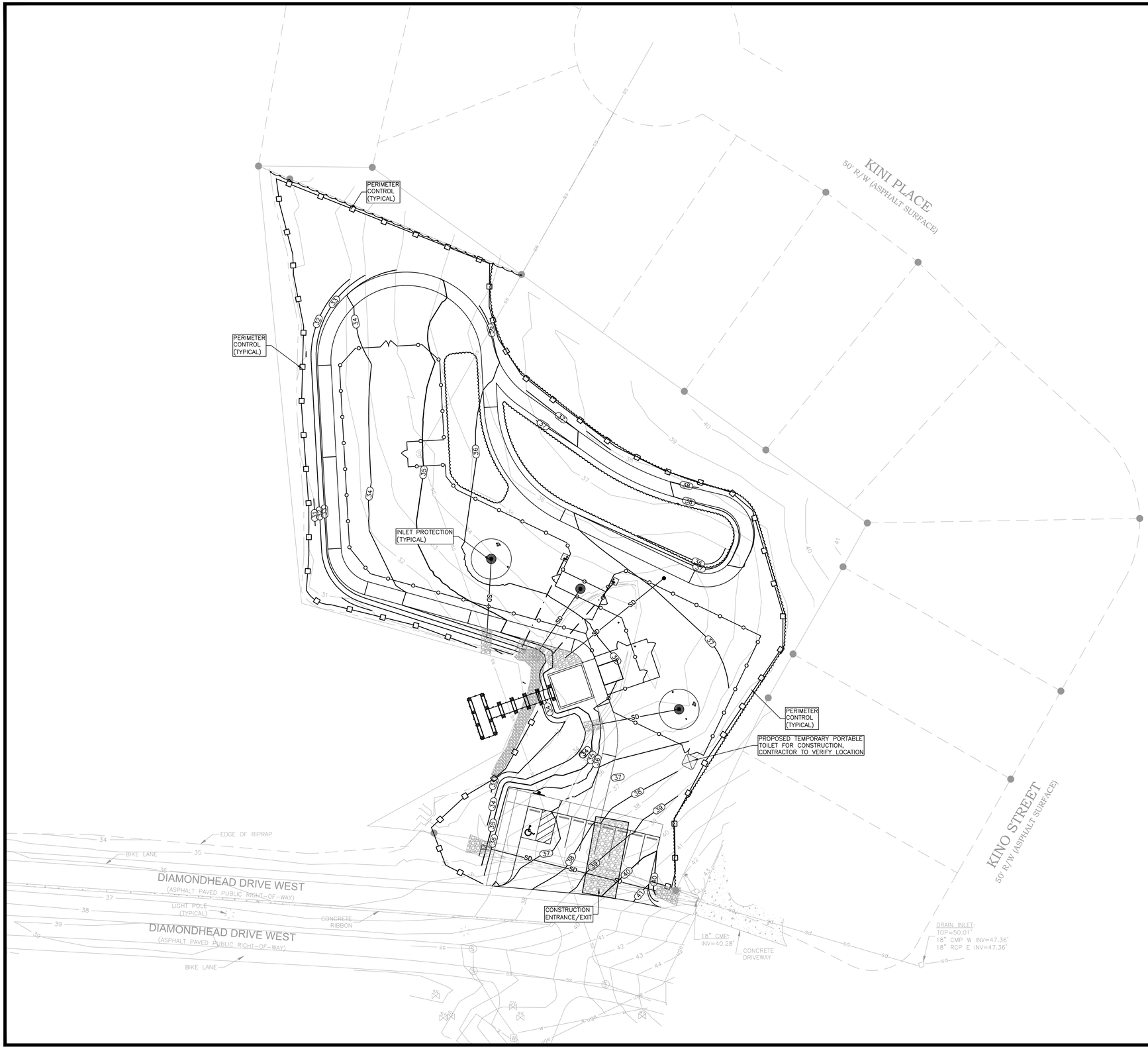

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STORM WATER POLLUTION PREVENTION PLAN

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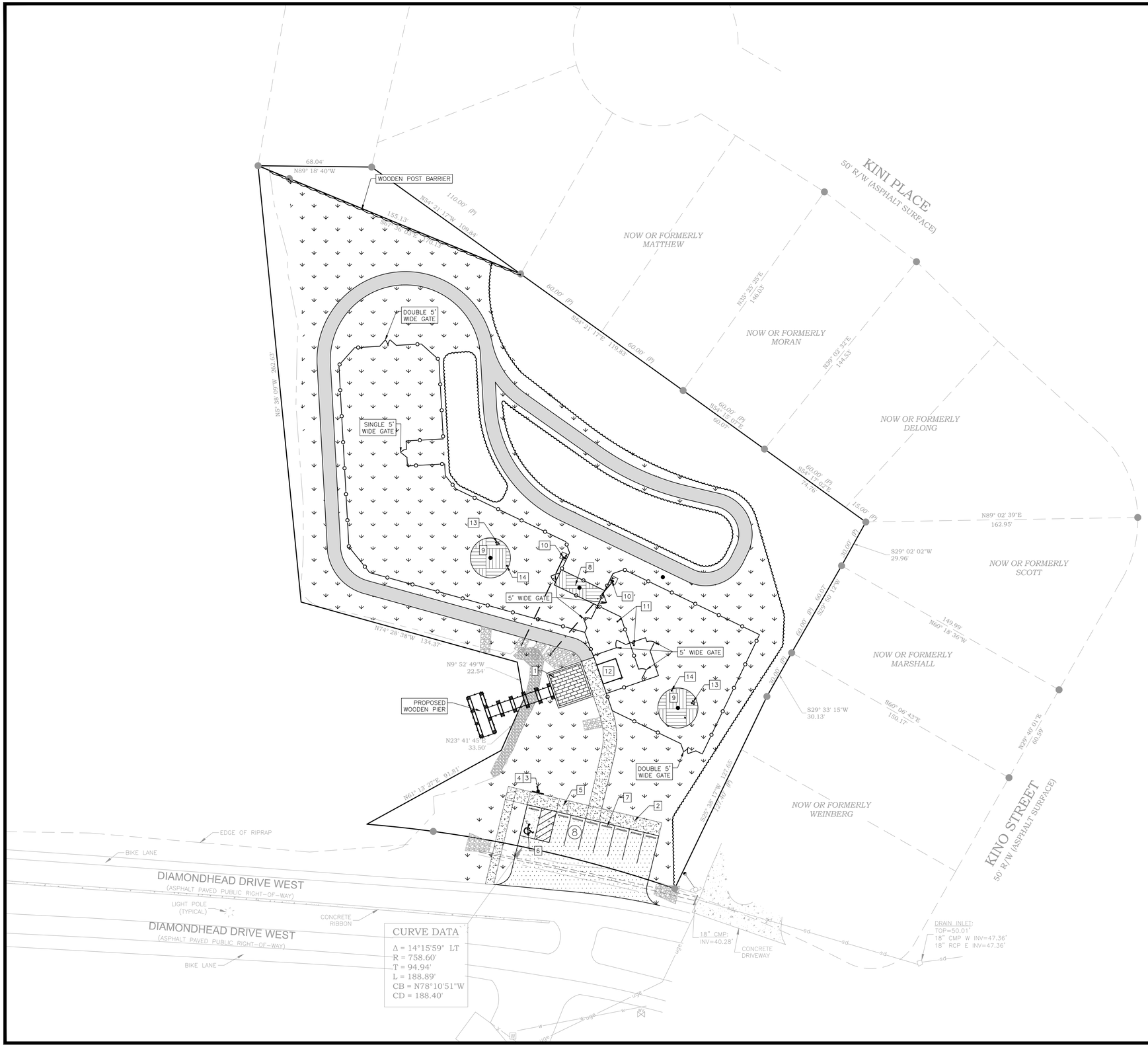

LEGEND

- DENOTES CONCRETE PAVEMENT
- DENOTES CONCRETE SPLASH PAD AND CONCRETE WASH STATION
- DENOTES DECORATIVE PAVERS
- DENOTES CONCRETE SIDEWALK
- DENOTES GRAVEL PARKING AREA
- DENOTES 8' WIDE ASPHALT WALKING TRACK
- DENOTES 419 BERMUDA SOD
- DENOTES 5' TALL OMEGA II ARCHITECTURAL FENCE
- (5) DENOTES PARKING SPACE COUNT

SITE NOTES

1. DECORATIVE BRICK PAVERS WITH RIBBON CURB
2. CONCRETE SIDEWALK
3. HANDICAP PARKING SIGN
4. HANDICAP VAN PARKING SIGN
5. HANDICAP RAMP WITH TRUNCATED DOME
6. HANDICAP PARKING SYMBOL AND STRIPING (SEE C620 FOR DETAILS)
7. CONCRETE WHEEL STOP
8. DOG WASH STATION
9. DOG SPLASH PAD
10. WATER FOUNTAIN ON 4'X4' CONCRETE PAD (HALSEY TAYLOR ENDURA II TUBULAR OUTDOOR FOUNTAIN MODEL NO. 4420DB OR APPROVED EQUAL)
11. HITCHING POST (BARK PARK PBARK-480-BLUE LEASH POST OR APPROVED EQUAL)
12. ENTRY BUILDING
13. H20 FIDO FSF-FH-25 MIST HYDRANT OR APPROVED EQUAL, COLOR TO BE SELECTED BY OWNER)
14. H20 FIDO ECOPLAY SPLASH PAD ACTIVATOR-TIMER OR APPROVED EQUAL

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CIVIL SITE PLAN

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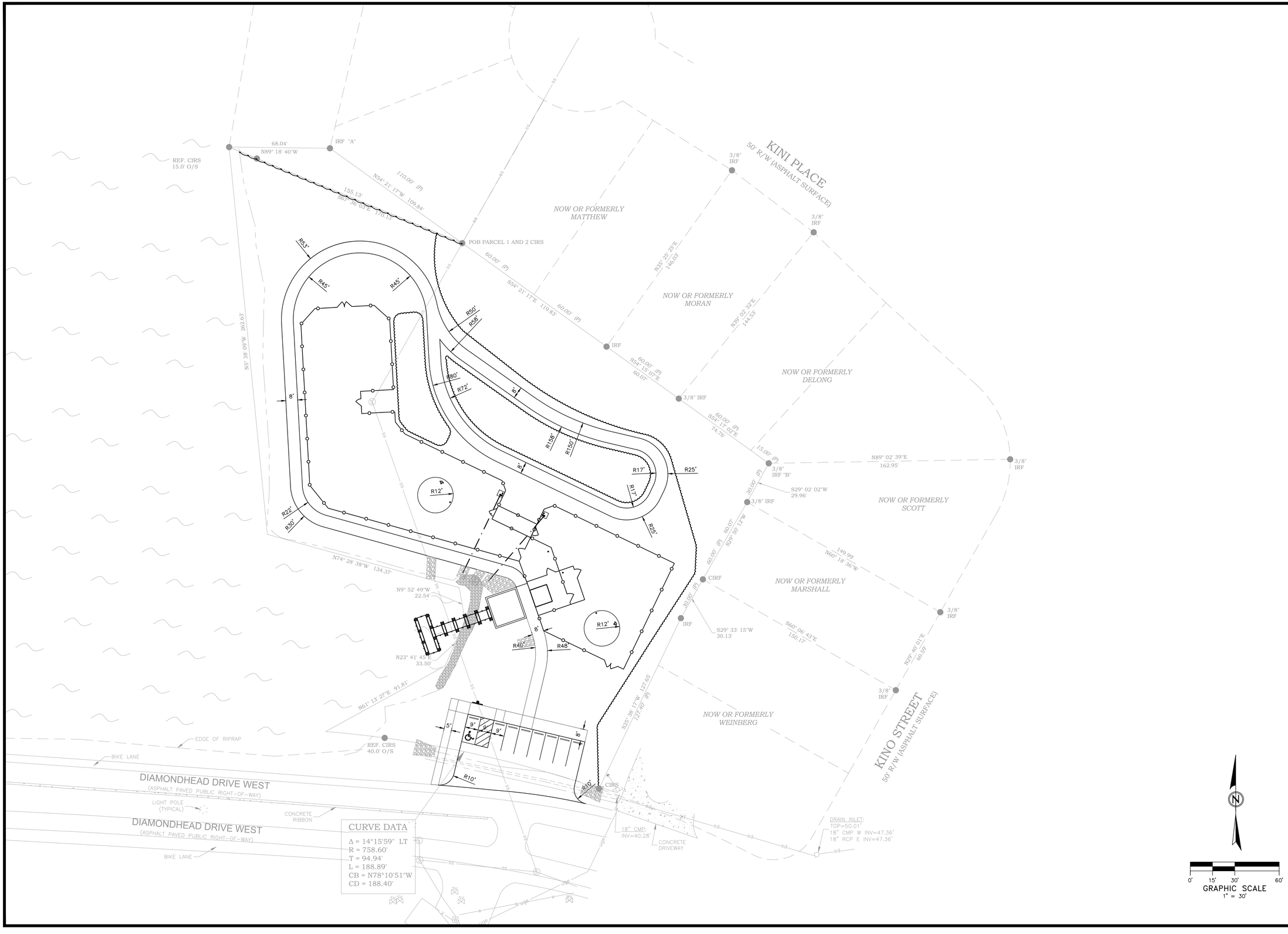

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SITE LAYOUT PLAN

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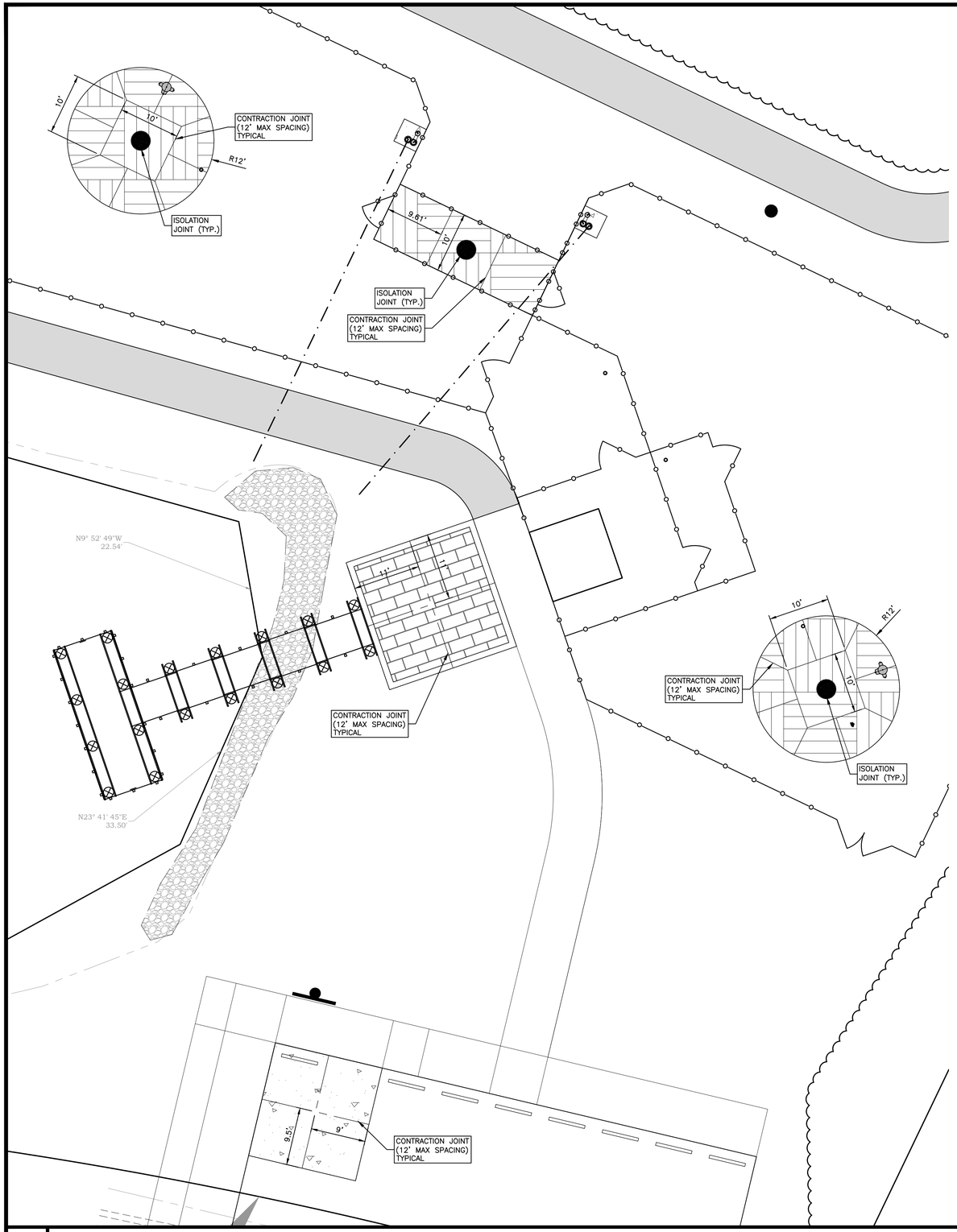
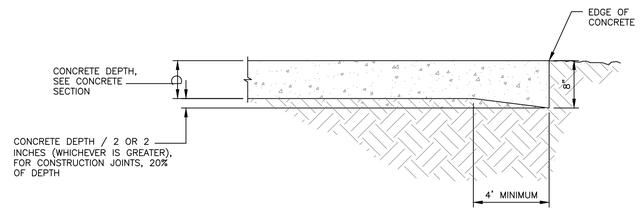


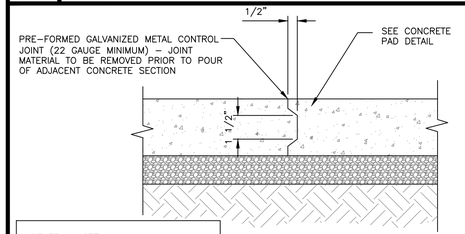
1 JOINTING PLAN

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 CONSTRUCTION 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 CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.
11. IF EDGE RESTRAINTS ARE NOT USED, TIE 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.

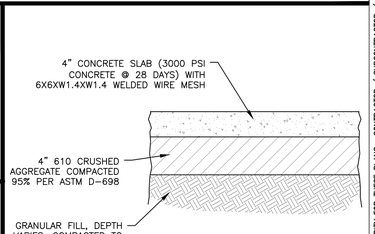
2 GENERAL JOINTING NOTES



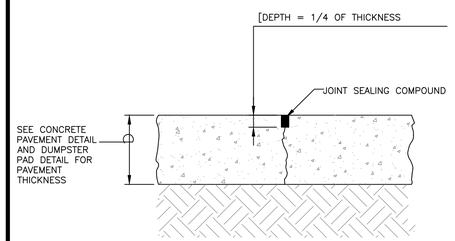
3 THICKENED SLAB DETAIL NOT TO SCALE



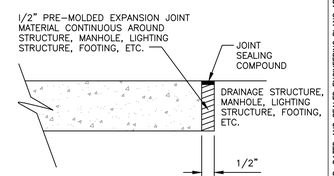
4 PRE-FORMED GALVANIZED METAL CONSTRUCTION JOINT DETAIL NOT TO SCALE



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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DIAMONDHEAD, MS 39525

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JOINTING PLAN AND DETAILS

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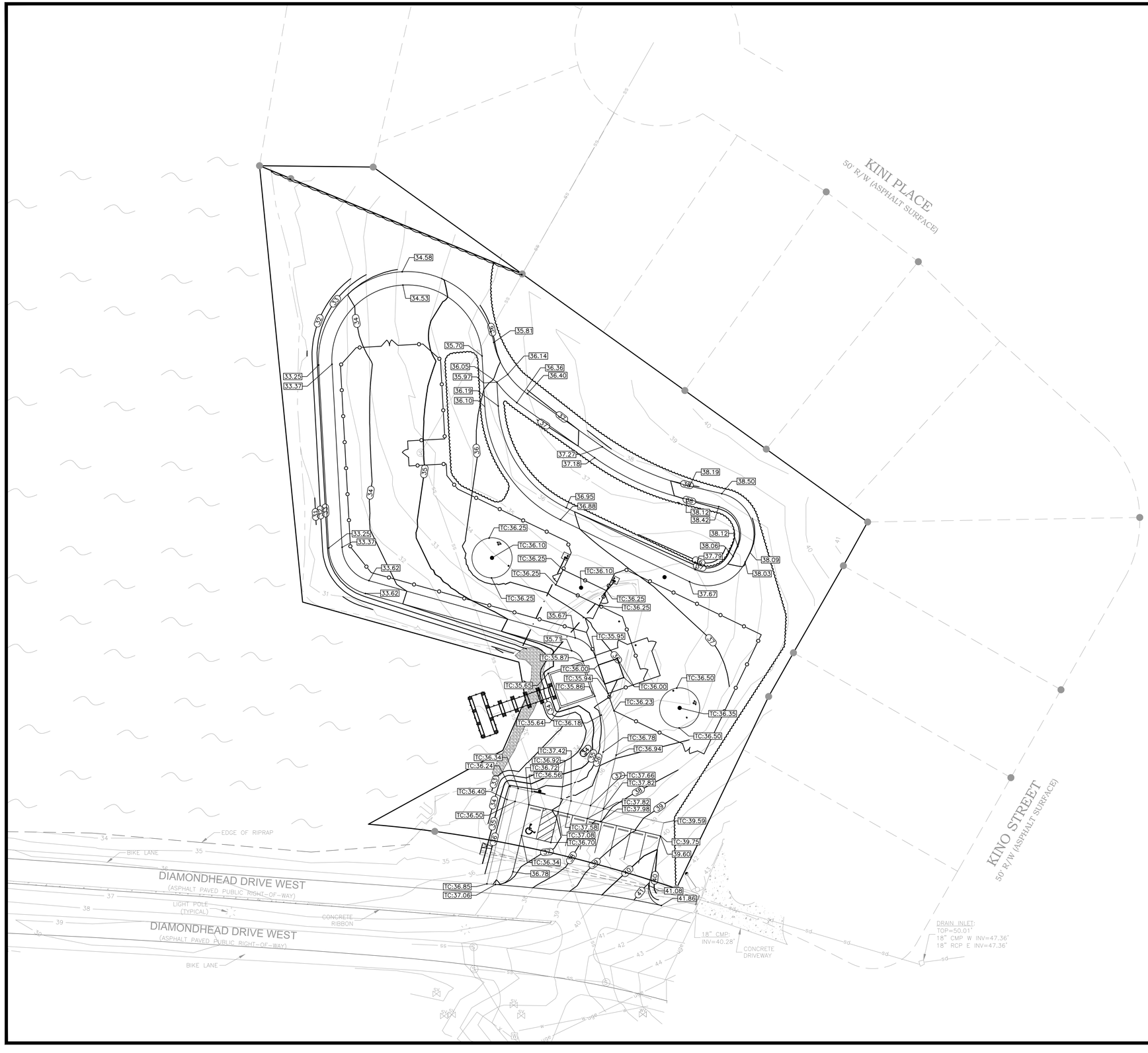

GRADING LEGEND

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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GRADING LEGEND

- 30 — DENOTES EXISTING GRADE CONTOUR
- (30) — DENOTES FINISHED GRADE CONTOUR

KINI PLACE
50' R/W (ASPHALT SURFACE)

KINO STREET
50' R/W (ASPHALT SURFACE)

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

DI-01 (NYLOPLAST) TOP:36.10 INV.:33.25

DI-02 (NYLOPLAST) TOP:36.10 INV.:34.00

DI-04 (NYLOPLAST) TOP:37.25 INV.:34.25

50± LF OF 8" SDR 26 @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

75± LF OF 12" SDR 26 @ 1.00% MIN. SLOPE

INV.:32.75

100 LB. RIP RAP

50± LF OF 8" SDR 26 @ 1.00% MIN. SLOPE

INV.:33.50

100 LB. RIP RAP

INV.:33.50

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

100 LB. RIP RAP

DI-03 (NYLOPLAST) TOP:36.35 INV.:34.55

55± LF OF 8" SDR 26 @ 1.00% MIN. SLOPE

10± LF OF 4" SCH.40 PVC CROSS DRAIN @ 1.00% MIN. SLOPE

100 LB. RIP RAP

FES-02 INV.:34.50

100 LB. RIP RAP

120± LF OF 22"X13" RCAP @ 3.75% SLOPE

FES-01 INV.:39.00

EDGE OF RIPRAP

BIKE LANE

DIAMONDHEAD DRIVE WEST
(ASPHALT PAVED PUBLIC RIGHT-OF-WAY)

LIGHT POLE (TYPICAL)

CONCRETE RIBBON

DIAMONDHEAD DRIVE WEST
(ASPHALT PAVED PUBLIC RIGHT-OF-WAY)

BIKE LANE

18" CMP: INV=40.28'

CONCRETE DRIVEWAY

DRAIN INLET:
TOP=50.01'
18" CMP W INV=47.36'
18" RCP E INV=47.36'

N

0' 15' 30' 60'

GRAPHIC SCALE
1" = 30'

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SITE DRAINAGE PLAN

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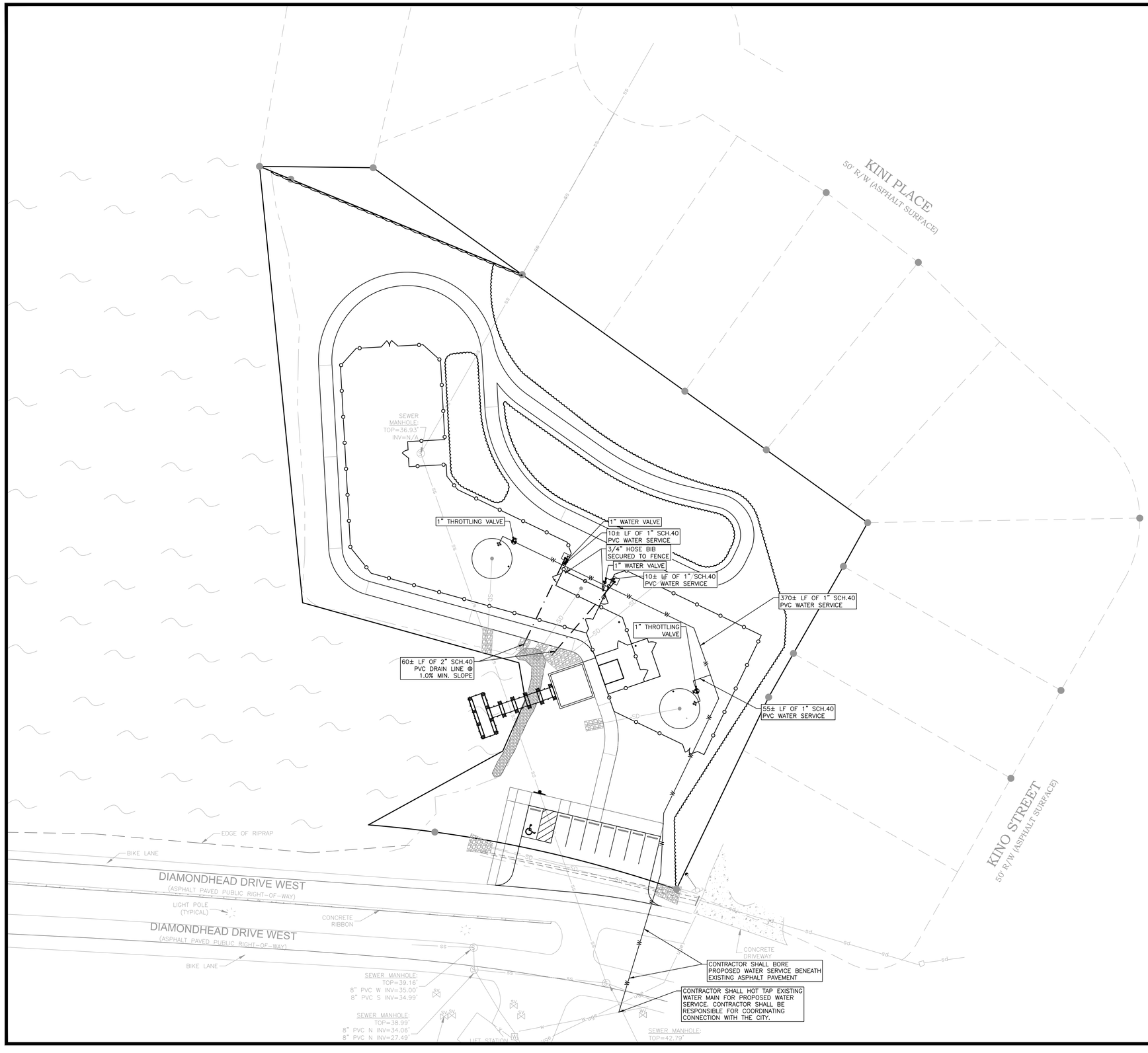

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SITE UTILITY PLAN

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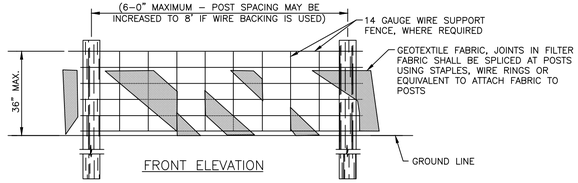
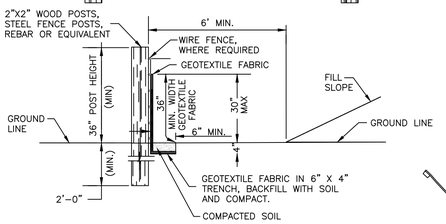
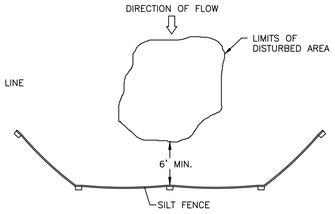


FRONT ELEVATION



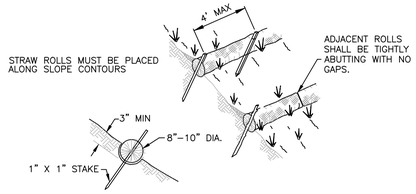
SIDE ELEVATION

SILT FENCE OPTION

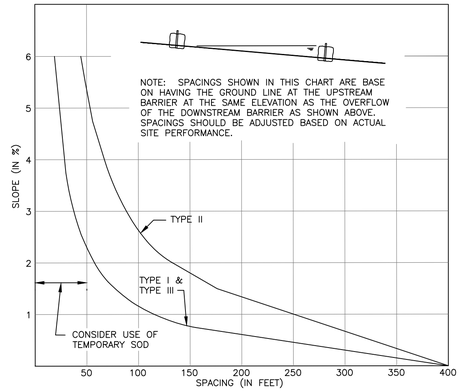


PLAN VIEW

STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A 3" MINIMUM TRENCH DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.



STRAW ROLL WATTLE OPTION



THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING EACH AREA THAT SEDIMENTATION BARRIERS ARE REQUIRED AND DETERMINING IF, BASED ON THE ABOVE CHART, ADDITIONAL ROWS OF SEDIMENTATION BARRIERS ARE REQUIRED. THE STORMWATER POLLUTION PREVENTION PLAN IS ONLY A SCHEMATIC DRAWING OF THE BASIC REQUIREMENTS FOR A BEST MANAGEMENT PRACTICES PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY ADDITIONAL REQUIREMENTS FOR IMPLEMENTATION OF THIS PLAN.

CHART 1 (SPACING FOR SEDIMENT BARRIERS

PERIMETER CONTROL NOTES

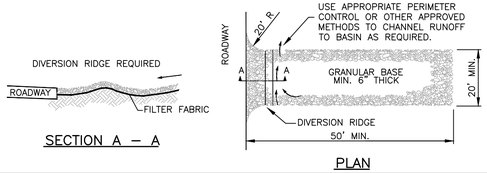
1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
1. POSTS SHALL BE SPACED A MAXIMUM OF 6' O.C, SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.
2. POSTS SHALL BE A MINIMUM OF 5'-0" IN LENGTH. IN ADDITION POSTS SHALL BE EITHER 2" x 2" N.D. WOOD POST OR HEAVY DUTY STEEL T-POSTS WITH PROJECTIONS FOR WIRE FASTENING.
3. 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.
4. 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), TIE WIRES OR HOG RINGS.
5. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN HEIGHT, AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
6. 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.
7. GEOTEXTILE FABRIC SHALL BE SPLICED 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.
8. 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.
9. 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.
10. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL EVENT AND WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
11. 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

NOT TO SCALE

CONSTRUCTION ENTRANCE/EXIT NOTE

2. THE ENTRANCE SHALL BE PROPERLY MAINTAINED FOR THE DURATION OF THE PROJECT TO PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MAINTENANCE AND REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENTRANCE SHALL BE CHECKED ON A DAILY BASIS AND BEFORE AND AFTER ANY RAINFALL EVENT FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAYS END AT NO ADDITIONAL COST TO THE OWNER.
4. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT THE FLOW OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
5. MEASURES SHALL BE TAKEN TO PREVENT VEHICULAR TRAFFIC FROM BYPASSING THE CONSTRUCTION ENTRANCE DURING INGRESS AND EGRESS.

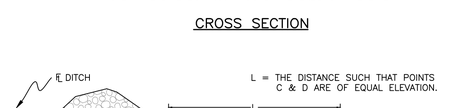


SECTION A - A

PLAN

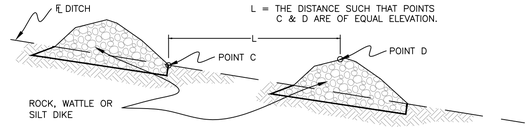
2 CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT TO SCALE

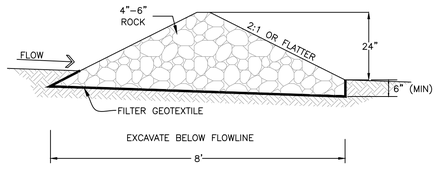


POINT A MUST BE HIGHER THAN POINT B TO DIRECT WATER FLOW OVER THE DIKE BUT NOT AROUND THE ENDS OF THE DIKE

CROSS SECTION



PROFILE VIEW ALONG DITCH FLOWLINE

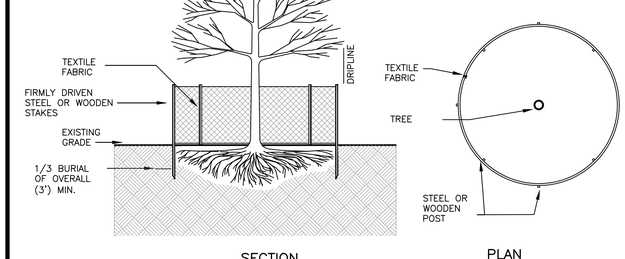


PROFILE

PLAN

3 CHECK DAM PLACEMENT DETAIL

NOT TO SCALE

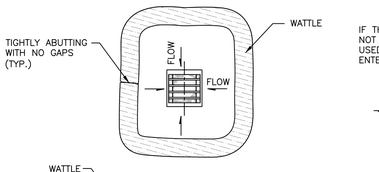


SECTION

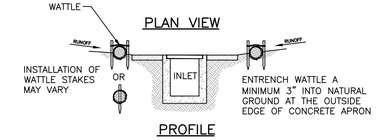
PLAN

4 TREE PROTECTION PLACEMENT DETAIL

NOT TO SCALE

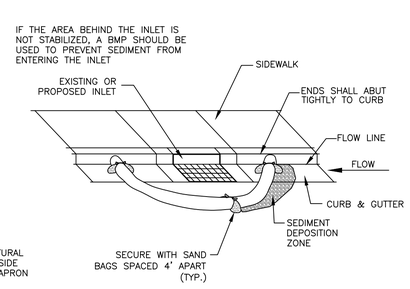


PLAN VIEW

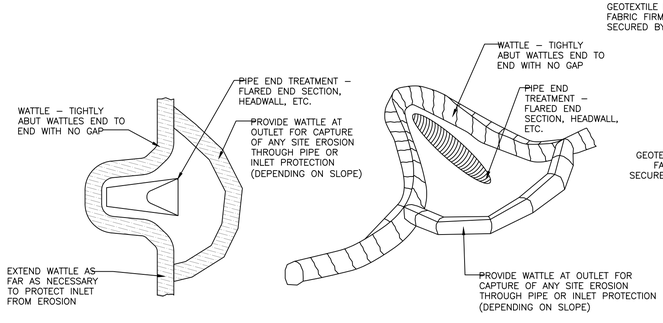


PROFILE

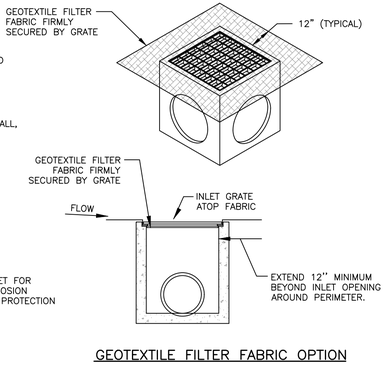
INLET STRAW ROLL WATTLE OPTION



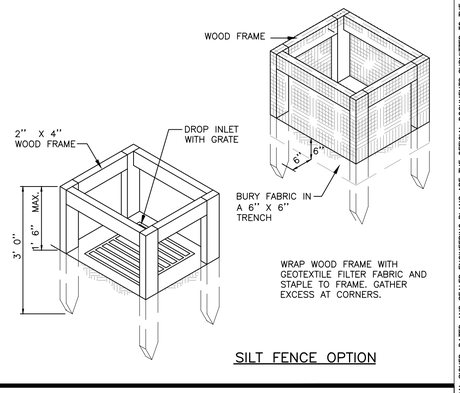
CURB INLET STRAW ROLL WATTLE OPTION



PIPE END TREATEMENT WATTLE OPTION



GEOTEXTILE FILTER FABRIC OPTION



SILT FENCE OPTION

5 TYPICAL INLET PROTECTION DETAILS

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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL

DIAMONDHEAD DRIVE WEST
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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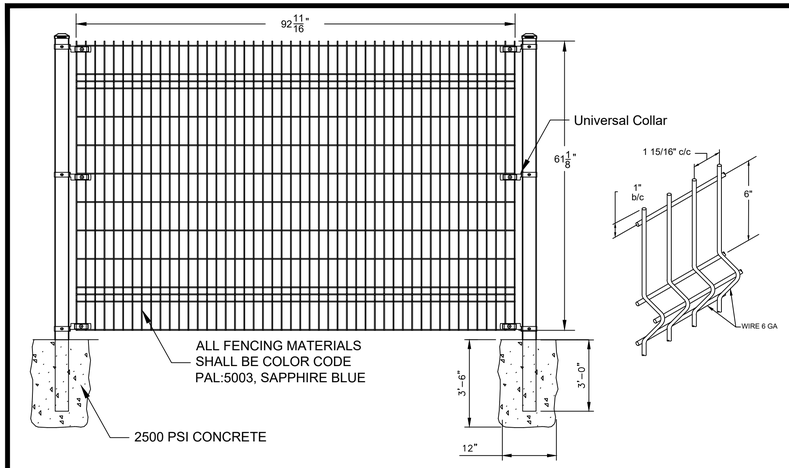
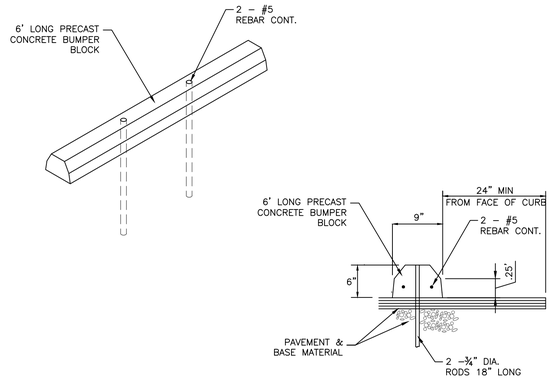


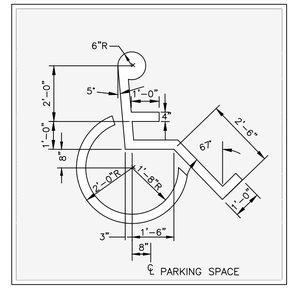
1 OMEGA II ARCHITECTURAL FENCE DETAIL — NOT TO SCALE



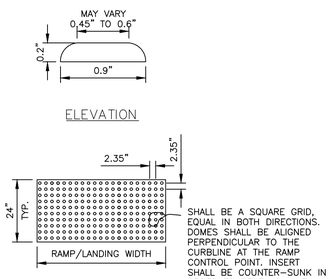
2 PRECAST CONCRETE WHEEL STOP DETAIL — NOT TO SCALE

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



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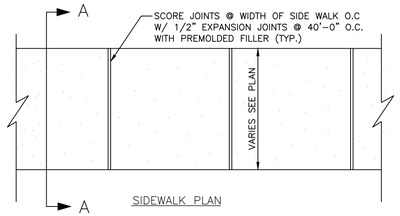
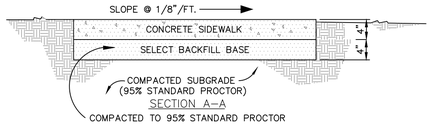
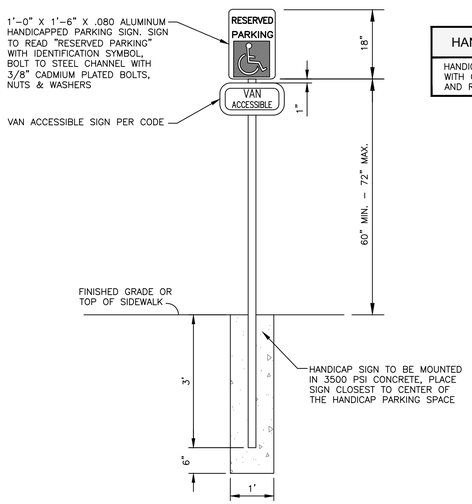




SIDEWALK NOTES

1. ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330R–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 CONSTRUCTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT.
10. CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB AND CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.

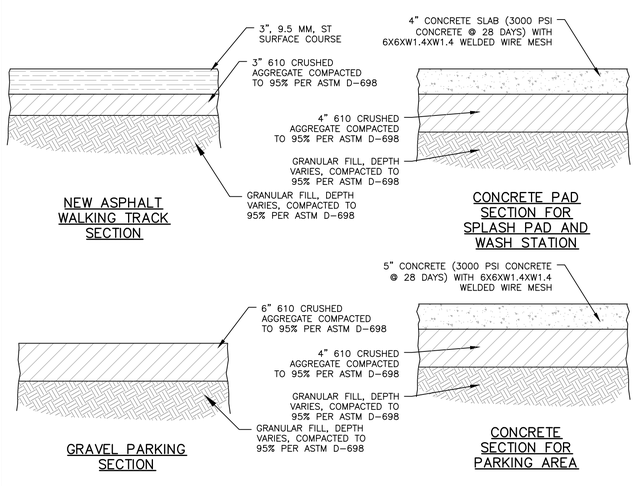
5 SIDEWALK DETAIL — NOT TO SCALE



HANDICAP SIGN DETAIL NOTE

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

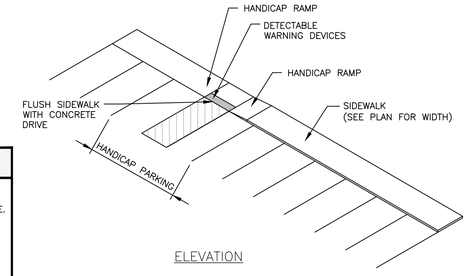
6 HANDICAP SIGN DETAIL — NOT TO SCALE

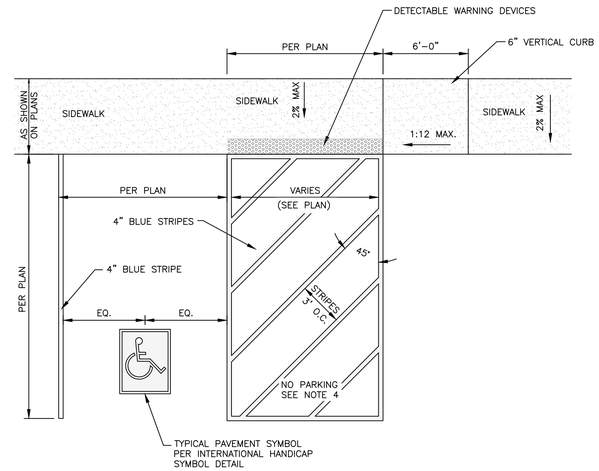


7 TYPICAL SECTIONS — NOT TO SCALE

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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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL

DIAMONDHEAD DRIVE WEST
DIAMONDHEAD, MS 39525

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

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CIVIL SITE DETAILS

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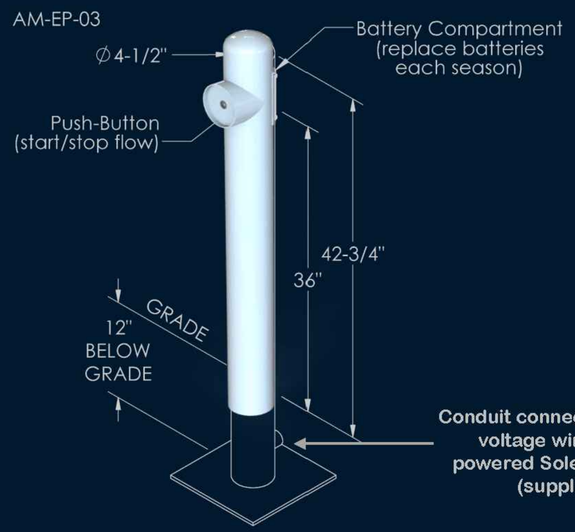
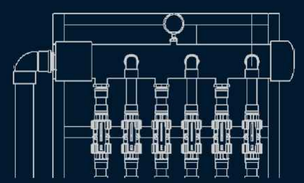
H2O Fido™ EcoPlay Splash Pad Activator - Timer

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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1 SPLASH PAD ACTIVATOR - TIMER (ALTERNATE NO. 3)

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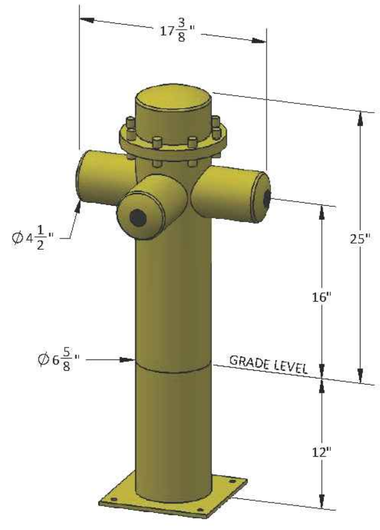
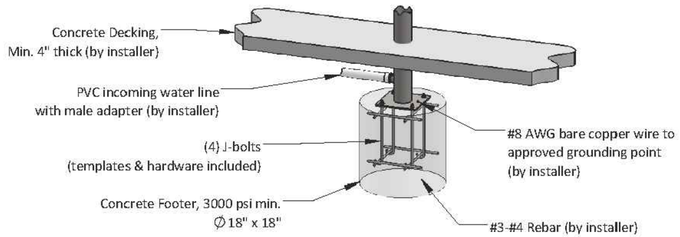
FSF-FH-25 Mist Hydrant

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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2 MIST HYDRANT (ALTERNATE NO. 3)

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CITY OF DIAMONDHEAD

TWIN LAKES FISHING PIER AND TRAIL

DIAMONDHEAD DRIVE WEST
DIAMONDHEAD, MS 39525

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DRAWN BY: JGP
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CIVIL SITE DETAILS

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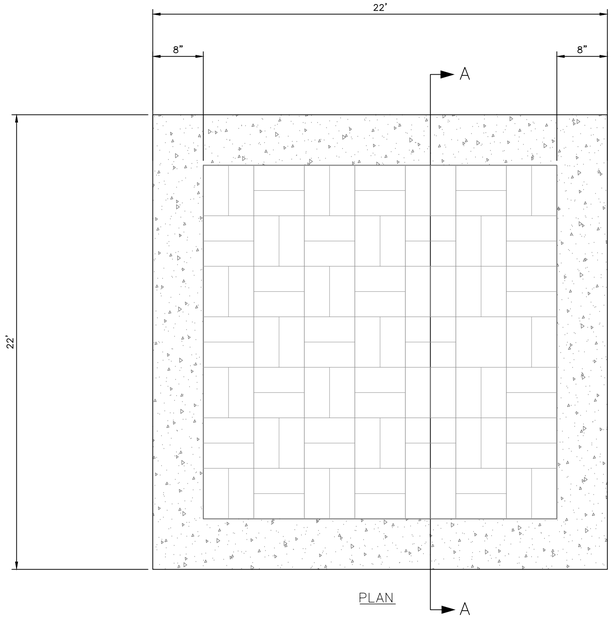
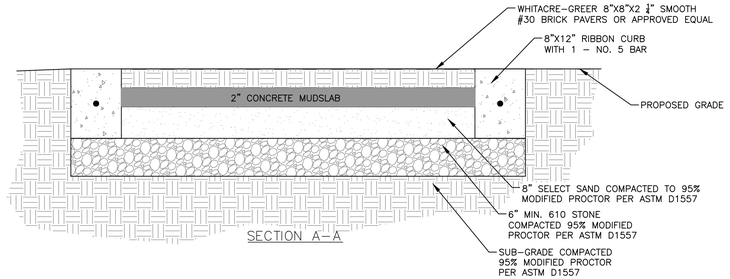
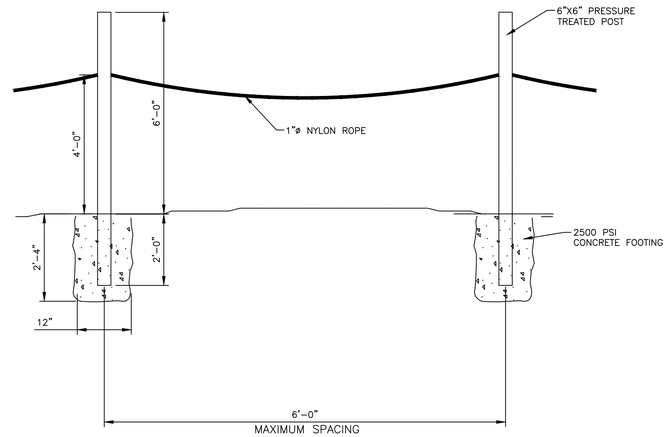




1 BRICK PAVER AREA DETAILS

NOT TO SCALE



2 WOODEN POST BARRIER DETAIL

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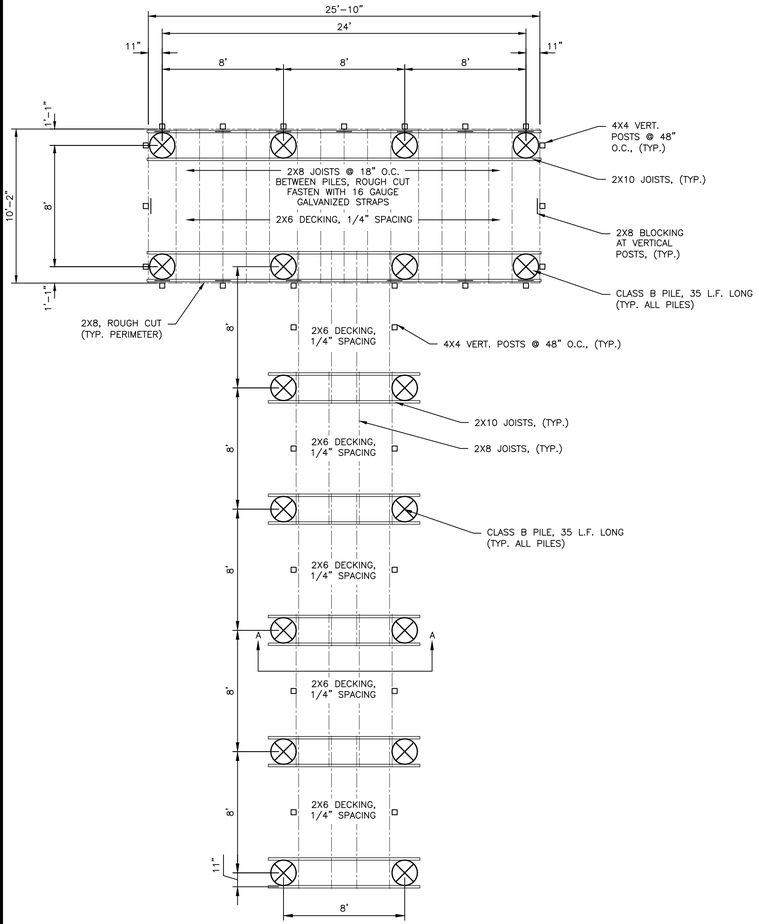

1 PIER LAYOUT DETAIL

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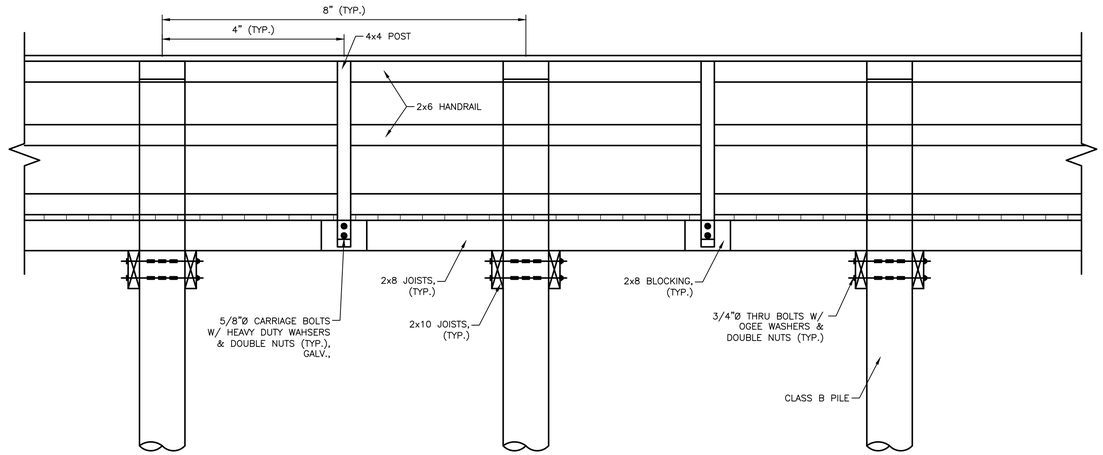

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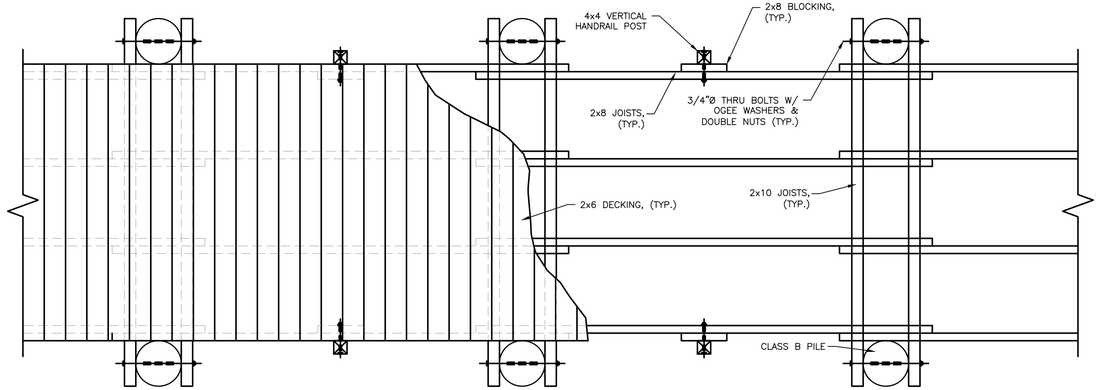

3 PIER LAYOUT DETAIL

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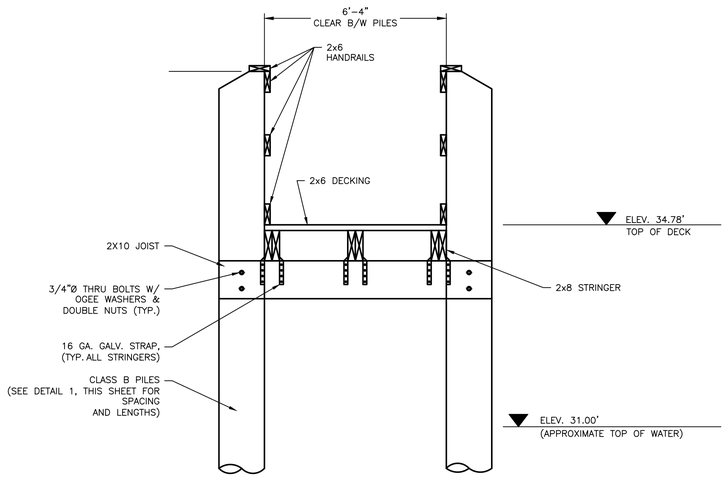

4 PIER SECTION A-A DETAIL

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P: 228.388.1950
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CITY OF DIAMONDHEAD

TWIN LAKES 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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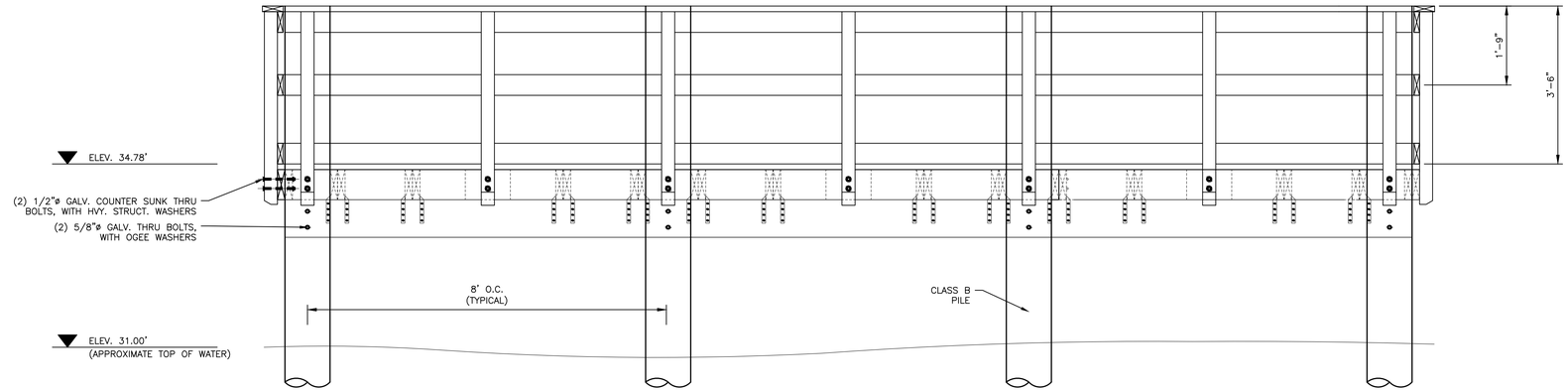

1 PIER WEST ELEVATION

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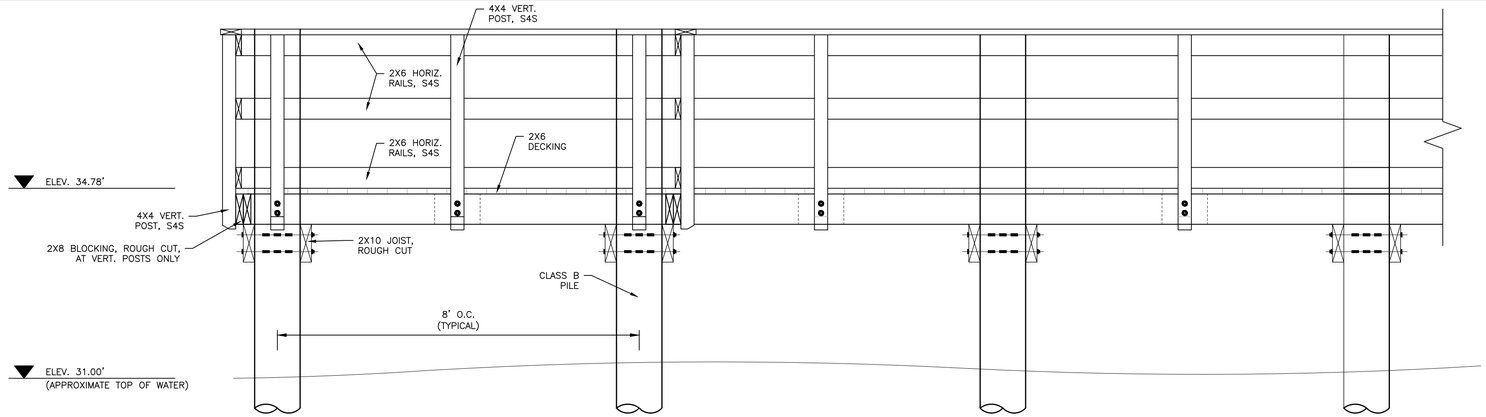

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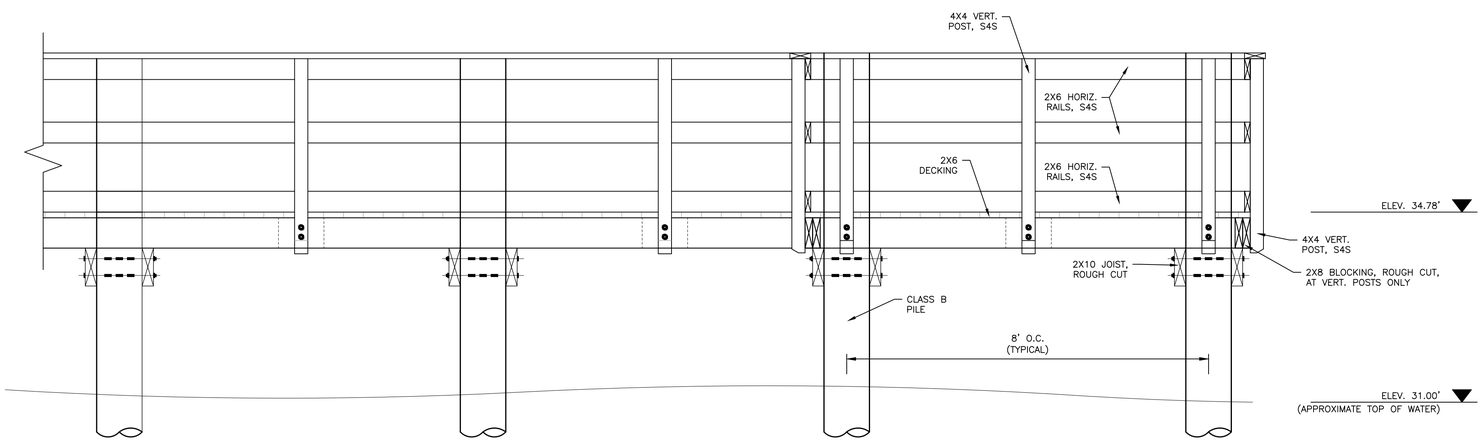

3 PIER NORTH ELEVATION

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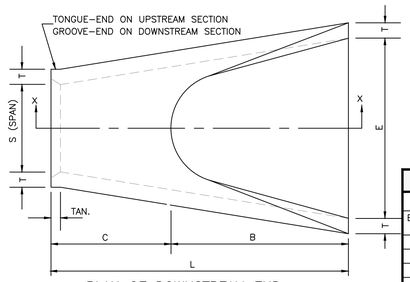
GENERAL NOTES

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



PLAN OF DOWNSTREAM END

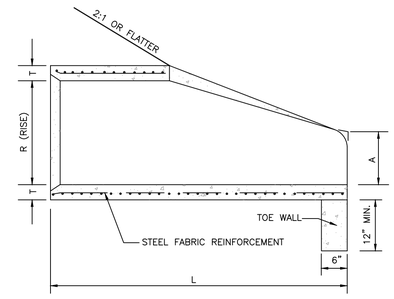
NOTE

BELL–END ON DOWNSTREAM SECTION
SPIGOT–END ON UPSTREAM SECTION.

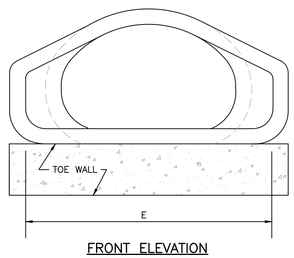
TABLE OF DIMENSIONS

FLARED END SECTION FOR CONCRETE ARCH PIPE

EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L
18"	13½"	22"	2½"	3:1	7"	2'–3"	3'–9"	3'–0"	6'–0"
24"	18"	28½"	3"	3:1	8"	3'–3"	2'–9"	4'–0"	6'–0"
30"	22½"	36¼"	3½"	3:1	10"	4'–0"	2'–0"	5'–0"	6'–0"
36"	26⅝"	43¾"	4"	3:1	10 ⅜"	5'–0"	3'–0"	6'–0"	8'–0"
42"	31⅛"	51⅛"	4½"	3:1	1'–3⅞"	5'–0"	3'–0"	6'–6"	8'–0"
48"	36"	58½"	5"	3:1	1'–9"	5'–0"	3'–0"	7'–0"	8'–0"
54"	40"	65"	5½"	3:1	2'–1½"	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"



SECTION X–X

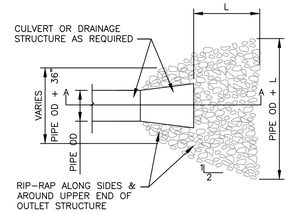


FRONT ELEVATION

1 FLARED END SECTION (F.E.S.) FOR REINFORCED CONCRETE ARCH PIPE (RCAP) — NOT TO SCALE

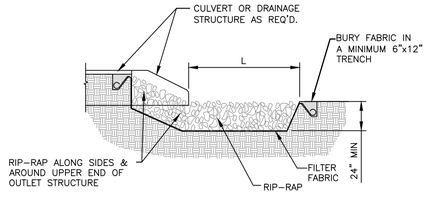
RIP-RAP DETAIL NOTES

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.



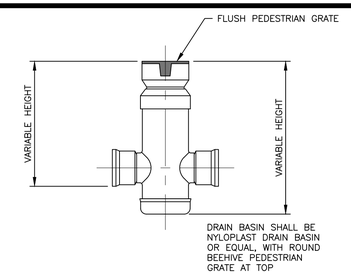
PLAN

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'



SECTION A–A

2 TYPICAL RIP-RAP OUTFALL DETAIL — NOT TO SCALE



3 DRAIN BASIN DETAIL — NOT TO SCALE

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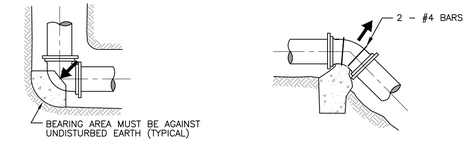
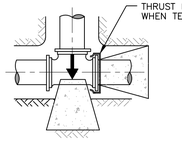
WATER MAIN THRUST BLOCK NOTE

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

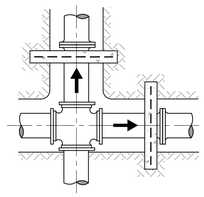


HORIZONTAL BEND

VERTICAL BEND



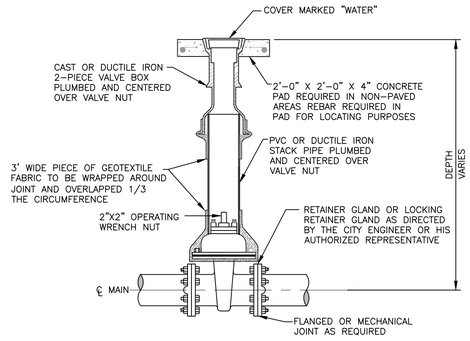
TEE

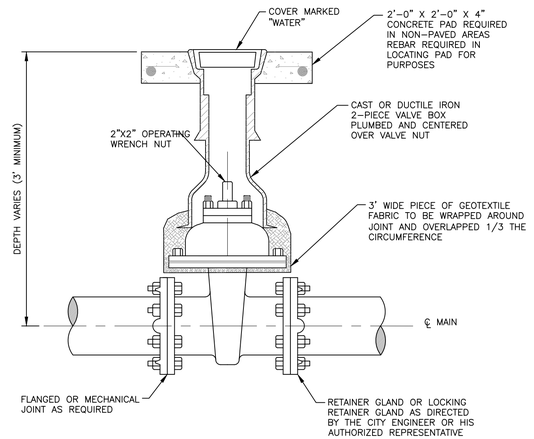


CROSS

BEARING AREAS FOR THRUST BLOCKING IN SQUARE FEET						
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

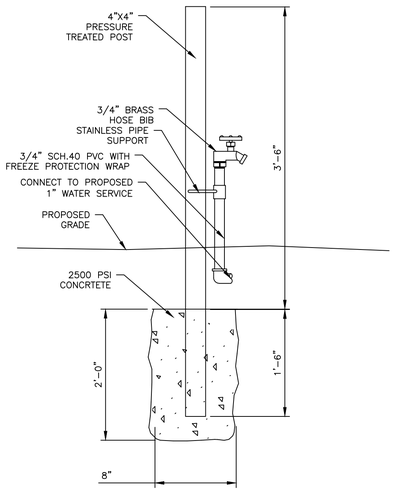
1 WATER MAIN THRUST BLOCK DETAILS NOT TO SCALE



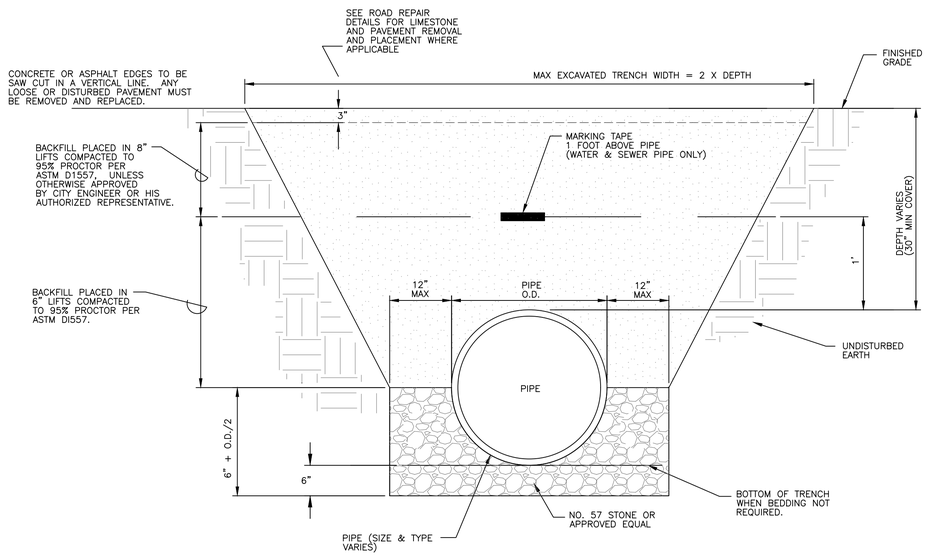


WITHOUT STACK PIPE

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



3 HOSE BIB MOUNT DETAIL NOT TO SCALE



GENERAL NOTES

1. 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.
2. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
3. "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.
4. 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.
5. INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
6. 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

1. 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.
2. 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.
3. REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.

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

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