



AREA LOCATION MAP: STATE OF INDIANA

BENCHMARK INFORMATION:

#	Longitude	Latitude	Elevation	Location
1	1579591	3027706	768.281	MNS/ CPT 1FT ON EOP W SIDE OF N ENTRANCE
2	1579115	3028073	768.749	CXS/ CPT ON CIRCLE FGP ISLAND W SIDE
4	1578929	3029137	782.202	RBS/ CPT MID WAY UP HILL SIDE
5	1578541	3029134	789.166	RBS/ CPT MID HILL 100FT OFF SE COR OF MIDDLE SCHOOL
7	1578859	3027731	768.950	MNS/ CPT IN YELLOW PGS TRIANGLE
8	1578474	3027646	766.493	MNF/ CPT ON EOP 15FT FROM SE COR OF BLUE SHED
11	1578870	3028816	780.110	CXS/ CPT IN FRONT OF MAIN ENTRANCE 75FT OUT
12	1579165	3028313	768.851	CXS/ CPT ON WALK COR 30FT E OFFH
14	1578885	3028504	768.621	MNS/ CPT 15FT N OF LPR IN LOT
15	1578669	3027924	768.621	MNS/ CPT 20FT N OF END OF CLF
16	1578547	3028754	782.901	RBS/ CPT 10FT S OF BEND IN WALK SW SIDE

VERTICAL DATUM INFORMATION:

CGS C 62 RESET 1949 ELEVATION 732.79 (NAVD 88)

A STANDARD DISK SET 1.4 MILES EAST ALONG U.S. HIGHWAY 40 FROM THE POST OFFICE AT PUTNAMVILLE. PUTNAM COUNTY, 1.2 MILES WEST OF THE JUNCTION OF STATE HIGHWAY 43, AT THE EAST END OF A WEIGHING STATION, AT A 2-FOOT BY 3-FOOT CONCRETE BOX CULVERT, IN THE TOP OF THE SOUTH HEADWALL, AND 75 FEET SOUTH OF THE CENTERLINE OF THE EAST-BOUND LANE OF THE HIGHWAY.

ELEVATION 804.12 CUT "X" SET IN THE NORTHEAST MOST BOLT OF A FIRE HYDRANT LOCATED APPROXIMATELY 1,780.7 FEET

SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 2,063.6 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

ELEVATION 770.83 CUT "X" SET IN THE NORTHWEST MOST BOLT OF A FIRE HYDRANT LOCATED APPROXIMATELY 758.5 FEET

SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 1,172.0 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

ELEVATION 773.76

CUT "X" SET IN A CONCRETE RIGHT OF WAY MONUMENT LOCATED APPROXIMATELY 59.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 622.3 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

CENTRAL ELEMENTARY SCHOOL PARKING LOT GREENCASTLE, IN

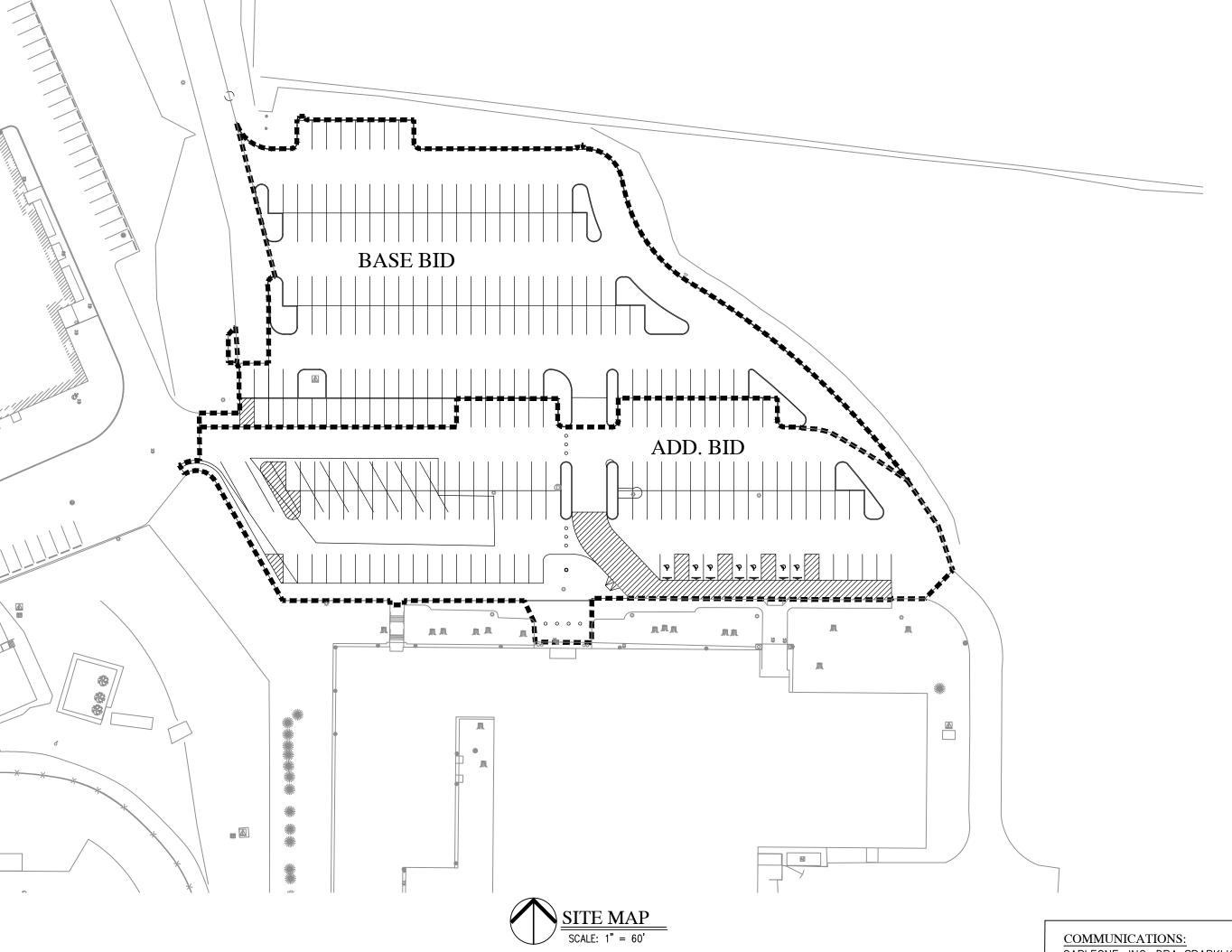
JANUARY 29, 2024

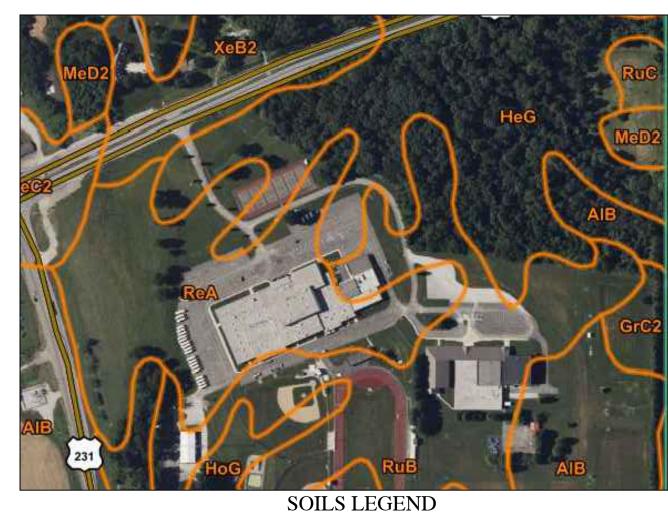
DEVELOPER/ OWNER:

Dr. Corey Smith Superintendent South Putnam Community **School Corporation** 3999 S. US Highway 231 Greencastle, IN 46135 (765) 653-319

AGENT/ENGINEER:

HWC Engineering 135 N. Pennsylvania St, Suite 2800 Indianapolis, IN 46204 Ryan Robinson, PE (317)946-6971 RROBINSON@HWCENGINEERING.COM







SITE ADDRESS:

CENTRAL ELEMENTARY SCHOOL 1888 EAST U.S. HIGHWAY 40 GREENCASTLE, INDIANA 46135

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UTILITY CONTACT INFORMATION:

DANVILLE, IN 46122

SANITARY SEWER:

1 NORTH LOCUST STREET

GREENCASTLE, IN 46135

CABLEONE, INC. DBA SPARKLIGHT 215 S. MAIN STREET CLINTON, IN 47842 JOSHUA DEWITT: (812)227-5385 COMMUNICATIONS: WINDSTREAM 1450 N. CENTER POINT RD. HIAWATHA, IA 52233 LOCATION DESK: (800)289-1901 SOUTH 43 WATER ASSN., INC. PO BOX 918 GREENCASTLE, IN 46135

JOE CUSTIS: (795)653-1490

METRO FIBERNETT, LLC 3701 COMMUNICATIONS WAY EVANSVILLE, IN 47715 PHONE: (812)213-1050 FIBER OPTIC: ZAYO BANDWIDTH

722 N. HIGH SCHOOL RD INDIANAPOLIS, IN 46214 WAYLON HIGGINS: (765)341-1199 JASON STEWART: (317)745-5473 CENTERPOINT ENERGY (SOUTH) CITY OF GREENCASTLE 1800 W. 26TH ST. MUNCIE, IN 47302 JON EASTHAM: (765)287-2119 PHONE: (765)653-3100

STORM SEWER: DUKE ENERGY 100 S MILL CREEK RD NOBLESVILLE, IN 46062 DON MCDUFFY: (317)776-5320

PUTNAM COUNTY SURVEYOR'S OFFICE 1 COURTHOUSE SQUARE STREET #43 GREENCASTLE, IN 46135 PHONE: (765)653-5603 HENDRICKS POWER COOPERATIVE

DESCRIPTION BY ADDENDUM #1 06/09/23

REVISIONS



LAFAYETTE - MUNCIE - NEW ALBANY www.hwcengineering.com

MENTA

CHECKED BY JANUARY 29, 2024 SCALE AS SHOWN

COVER



OVERALL PROJECT GENERAL NOTES:

1. SURVEY PREPARED BY:

CENTRAL STATES CONSULTING, LLC
P.O. BOX 4

13 WEST PEARL STREET

NORTH SALEM, INDIANA 46135

- CONTRACTOR SHALL PERFORM ALL MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH STATE AND LOCAL STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL, AT A MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S PERSONELL AND THE WORK.
- 3. CONTRACTOR SHALL COMPLY WITH ANY AND ALL SAFETY REGULATIONS AND REQUIREMENTS RELATED TO THE PROPOSED WORK. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ANY OTHER LOCAL, STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE OPTION OF THE OWNER AND/OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS AND OTHER SAFETY MEASURES DURING CONSTRUCTION.
- ALL WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL REGULATIONS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS REQUIRED FOR WORK.
- 7. PLANS AND SPECIFICATIONS REFERENCE ARCHITECT, ENGINEER AND LANDSCAPE ARCHITECT INTERCHANGEABLY THROUGHOUT.
- 8. NO CHANGES SHALL BE MADE TO THE PROPOSED WORK WITHOUT WRITTEN APPROVAL OF ENGINEER.
- 9. ANY DEVIATIONS OF THE EXISTING CONDITIONS FROM THOSE SHOWN ON THE PLANS THAT AFFECT THE IMPROVEMENTS SHALL BE
- REPORTED TO THE ENGINEER BEFORE CONSTRUCTION PROCEEDS AT THAT LOCATION.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SURVEY MONUMENTS. ANY MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION ACTIVITY SHALL BE REPLACED BY A LICENSED SURVEYOR.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR REMOVED AS PART OF THE WORK, CONTRACTOR SHALL HAVE A LICENSED SURVEYOR ESTABLISH ANOTHER BENCHMARK AT A LOCATION OUT OF HARM'S WAY
- 12. EXCAVATION AND DISPOSAL OF MATERIAL SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND ENVIRONMENTAL REGULATIONS. CONTRACTOR SHALL CEASE EXCAVATION ACTIVITIES AND NOTIFY THE OWNER AND ENGINEER IMMEDIATELY IF CONTAMINATED SOIL OR OTHER ENVIRONMENTAL HAZARD IS ENCOUNTERED.
- 3. CONTRACTOR SHALL ADJUST ELEVATION OF ANY SURFACE FEATURE (RIM, GRATE, HYDRANTS, VALVES, HAND HOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS AFFECTED BY NEW CONSTRUCTION OR GRADING.
- 14. CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING SITE AREAS OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO AT LEAST THE CONDITION THAT EXISTED BEFORE CONSTRUCTION.
- 15. COORDINATE WORK ON CIVIL DRAWINGS WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND STRUCTURAL WORK.

UTILITY GENERAL NOTES:

- NOT ALL UTILITY LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTOR'S BENEFIT. CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATION
- 2. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN THE WORK AREA WHETHER SHOWN OR NOT, AND SHALL REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE.
- 3. ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY.
- 4. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OR RESUMPTION OF WORK WHICH COULD DISRUPT THE RESPECTIVE UTILITY SERVICE. CONTRACTOR SHALL COORDINATE ANY DISRUPTION OF AN ACTIVE UTILITY SERVICE WITH ENGINEER, OWNER, AND UTILITY COMPANY.
- 5. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR DIRECTION SHOULD UNCHARTED, INCORRECTLY CHARTED OR OTHER UTILITIES BE ENCOUNTERED DURING CONSTRUCTION. ANY DEVIATIONS FROM THE UTILITY LOCATIONS OR ELEVATIONS FROM THOSE SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION PROCEEDS AT THAT LOCATION.
- CONTRACTOR SHALL UNCOVER ALL TIE—IN AND CROSSING LOCATIONS PRIOR TO ANY UNDERGROUND PIPE INSTALLATION.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE IMPROVEMENTS SHOWN ON THE SITE PLANS. IF MINOR UTILITY CONFLICTS ARISE, CONTRACTOR MAY SHIFT THE LOCATION OF THE PROPOSED IMPROVEMENTS AFTER NOTIFYING ENGINEER.
- 8. REFER TO BUILDING PLANS FOR ALL INFORMATION REGARDING UTILITY LAYOUT AND DETAILS WITHIN THE BUILDING AND EXTENDING OUT 5—FEET FROM EXTERIOR FACE OF BUILDING. ALL MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN AND COORDINATION SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- 9. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
- . ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED IN LIFTS ACCORDING TO CONSTRUCTION DETAILS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVEMENT AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.
- 1. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS, FITTINGS OR STRUCTURES REQUIRED TO ASSURE PROPER INSTALLATION
- 12. ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF THE UTILITIES AND STRUCTURES.
- 13. WHERE NECESSARY, UTILITY SERVICE CONDUITS SHALL BE INSTALLED UNDER PAVED AREAS AND BACKFILLED AS SPECIFIED ABOVE BEFORE PAVEMENT IS CONSTRUCTED. COORDINATE CONDUIT REQUIREMENTS WITH UTILITY COMPANIES AND MECHANICAL CONTRACTOR.

DEMOLITION NOTES:

- . PRIOR TO THE START OF DEMOLITION WORK, CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION.
- 2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL DEMOLISH AND DISPOSE OF OFF-SITE ALL MATERIALS, STRUCTURES, FENCE, CONCRETE, PAVEMENTS, CURBS AND OTHER MISCELLANEOUS APPURTENANCES WITHIN DISTURBED LIMITS. GENERALLY, DEMOLITION AREAS AND FACILITIES ARE INDICATED WITH BOLD LINES AND/OR SHADED AREAS. DISPOSAL OF SITE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES TO REMAIN OR WHICH LIE ALONG THE PERIMETER OF THE SITE. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO: BUILDINGS, PAVEMENTS, FENCES, VEGETATION, UTILITIES, PROPERTY MARKERS, ETC. CONTRACTOR SHALL RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING OR AS A RESULT OF CONSTRUCTION ACTIVITY. REPLACEMENT OF DAMAGED PROPERTY SHALL BE EQUAL TO EXISTING CONDITIONS.
- 4. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER VEGETATION NECESSARY FOR CONSTRUCTION. ALL CLEARING AND GRUBBING DEBRIS SHALL BE DISPOSED OF OFF-SITE.
- TREES AND OTHER PLANT MATERIALS TO REMAIN SHALL BE PROTECTED BY TREE FENCE INSTALLED OUTSIDE THE DRIP LINE. NO
 CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES.
- 6. DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48-INCHES BELOW THE LOWEST GRADE/SUBGRADE LEVEL.
- 7. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES IN ACCORDANCE WITH THE EARTHWORK NOTES.
- 8. PROVIDE NEAT, STRAIGHT, VERTICAL SAWCUT AT ALL LOCATIONS WHERE PROPOSED PAVEMENTS, CURBS, ETC. ABUT EXISTING PAVEMENTS, CURBS, ETC. TO REMAIN.
- 9. UNLESS NOTED OTHERWISE, ALL UNDERGROUND UTILITIES SCHEDULED FOR DEMOLITION SHALL BE COMPLETELY EXCAVATED AND DISPOSED OF OFF-SITE, AND THE TRENCH BACKFILLED IN ACCORDANCE WITH THE EARTHWORK NOTES.
- 10. UNLESS NOTED OTHERWISE, ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT
- 11. DEMOLITION ITEMS INCLUDE, BUT ARE NOT LIMITED TO, REMOVAL ITEMS INDICATED ON THE DEMOLITION PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATED ITEMS WHICH INTERFERE WITH PROPOSED CONSTRUCTION.
- 12. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED FACILITIES.
- 13. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
- 14. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
- 15. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
- NO ON-SITE BURNING IS PERMITTED.

SITE IMPROVEMENTS NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS THROUGHOUT CONSTRUCTION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS.
- 3. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE REFERENCED TO THE EDGE OF PAVEMENT, EDGE OF SIDEWALK, EDGE OF GUTTER, OR OUTSIDE SURFACE OF FOUNDATION WALL.
- 4. REFER TO BUILDING PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS.
- 5. FOLLOWING THE COMPLETION OF ALL UNDERGROUND WORK IN PAVED AREAS, AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE THICKNESS INDICATED ON THE APPROPRIATE PAVEMENT DESIGN DETAIL. WHEN THICKNESS OF COMPACTED AGGREGATE BASE EXCEEDS 6 INCHES, PLACE MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES OR LESS THAN 3 INCHES THICK WHEN COMPACTED. COMPACT WITH A MEDIUM WEIGHT SMOOTH WHEELED ROLLER OR EQUIVALENT. ALONG CURBS, WALLS AND ALL LOCATIONS NOT ACCESSIBLE TO THE ROLLER, COMPACT AGGREGATE BASE WITH HAND OPERATED TAMPERS.
- 6. ASPHALT PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION AND MATERIAL GUIDELINES OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT STANDARD SPECIFICATIONS, LATEST EDITION. SEE CONSTRUCTION DETAILS FOR PAVEMENT DESIGN INFORMATION.
- THE CONNECTION OF NEW PAVEMENT TO EXISTING PAVEMENT IN THE PARKING LOTS AND DRIVEWAYS SHALL MATCH EXISTING GRADES AND PROFILES. A LAP JOINT IS REQUIRED FOR CONNECTIONS BETWEEN EXISTING AND PROPOSED ASPHALT PAVEMENTS. SEE CONSTRUCTION DETAILS. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL LOCATIONS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
- 8. UNLESS NOTED OTHERWISE, ALL PAVEMENT STRIPING WITHIN THE PROJECT SITE SHALL BE 4-INCHES WIDE, PAINTED WITH WHITE LATEX, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAINT WITH MECHANICAL EQUIPMENT AND/OR STENCILS TO PRODUCE CLEAN, STRAIGHT AND UNIFORM EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PRODUCE A MINIMUM 12 TO 15 MILS DRY THICKNESS.
- 9. PORTLAND CEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-150. ONLY ONE BRAND AND MANUFACTURER OF APPROVED CEMENT SHALL BE USED FOR ANY ONE STRUCTURE. REGULAR FINE AND COARSE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33. ALL WATER USED SHALL BE POTABLE, CLEAN AND FREE FROM OILS, ACIDS, ALKALIS, ORGANIC MATERIAL OR OTHER SUBSTANCES THAT MAY BE DELETERIOUS TO CONCRETE OR STEEL.
- 10. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. WELDED WIRE FABRIC OR WIRE MESH SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-185. REINFORCEMENT SHALL BE CUT AND BENT IN ACCORDANCE WITH ACI 315. COMPLY WITH ARSI RECOMMENDED PRACTICE "PLACING REINFORCING BARS" FOR PLACING AND SUPPORTING REINFORCEMENT.
- 11. ALL CONCRETE USED SHALL BE CLASS A STRUCTURAL CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, 6-1/2 BAGS, 2 TO 4 INCH SLUMP RANGE, 5% TO 8% AIR CONTENT. CLASS A CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH ACI 211.1. ALL READY MIXED CONCRETE SHALL BE MIXED, DELIVERED, AND PLACED IN ACCORDANCE WITH ASTM C-94.
- 12. FORMS SHALL BE CONSTRUCTED OF WOOD, PLYWOOD, STEEL, OR OTHER APPROVED MATERIALS AND SHALL BE MORTAR TIGHT. THE FORMS AND ASSOCIATED FALSE WORK SHALL BE SUBSTANTIAL AND UNYIELDING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE DIMENSIONS AND CONTOURS SHOWN ON THE DRAWINGS. FORM SURFACES SHALL BE SMOOTH AND FREE FROM HOLES, DENTS, SAGS, AND OTHER IRREGULARITIES. THE FORMS SHALL BE COATED WITH A NON-STAINING OIL BEFORE CONCRETE IS POURED. REMOVE FORMS A MINIMUM OF 24 HOURS AFTER PLACING CONCRETE.
- 13. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304. FORMED CONCRETE SHALL BE UNIFORMLY CONSOLIDATED USING A MECHANICAL VIBRATOR. COMPLY WITH THE RECOMMENDATIONS OF ACI 306R FOR COLD WEATHER PLACEMENT AND ACI 305R FOR HOT WEATHER PLACEMENT. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND TO ENSURE PROPER MOISTURE CONTROL DURING CURING
- 14. CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT, STRAIGHT CUT WHICH IS TRUE IN ALIGNMENT. ALL JOINTS ARE TO CONTINUE FROM PROPOSED SIDEWALK OR CONCRETE PAVEMENT THROUGH THE CURB.
- 15. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 16. ALL SIDEWALKS SHALL COMPLY WITH AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS. MAXIMUM CROSS SLOPE SHALL BE 1:50 AND MAXIMUM LONGITUDINAL SLOPE SHALL BE 1:20.

EARTHWORK NOTES:

- 1. EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY ENGINEER AND THE OWNER AT LEAST 48 HOURS BEFORE STARTING EARTHWORK OPERATIONS.
- 2. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER FOR THIS PROJECT. THE GEOTECHNICAL ENGINEER SHALL INSPECT SOIL CONDITIONS, PROOF—ROLLING, AND FIELD DENSITY OF COMPACTED FILLS. ALL SUBGRADES AND FILLS SHALL MEET OR EXCEED THE COMPACTION REQUIREMENTS SPECIFIED BELOW. BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBGRADES OR FILLS WHICH ARE BELOW SPECIFIED DENSITIES REQUIRE ADDITIONAL COMPACTION WORK AND TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE DURING FINISH GRADING AND LANDSCAPE WORK. STRIPPED TOPSOILS SHALL BE STOCKPILED AS SHOWN IN EROSION CONTROL PLAN. TOPSOIL IS DEFINED AS FERTILE, FRIABLE NATURAL LOAM SURFACE SOILS, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, AND OTHER LITTER OR STONES LARGER THAN 1/2 INCH. LOOSE DEBRIS, TOPSOILS AND UNSUITABLE SUBSOILS SHALL BE STRIPPED FROM AREAS OF THE SITE THAT ARE TO BE DEVELOPED. THE DEPTH OF STRIPPING OF SURFACE SOILS MAY VARY BY LOCATION WITHIN THE SITE. THE ENGINEER SHALL DESIGNATE ON—SITE LOCATIONS TO STORE OR DEPOSIT STRIPPED SOILS. CONTRACTOR SHALL REMOVE TOPSOILS AND UNSUITABLE SUBSOILS FROM ALL AREAS TO BE OCCUPIED BY BUILDINGS AND PAVEMENTS. IN ADDITION, ANY AREAS TO BE UTILIZED AS BORROW AREAS FOR FILL MATERIAL MUST ALSO BE STRIPPED OF TOPSOILS. IF THE AMOUNT OF STOCKPILED TOPSOIL EXCEEDS QUANTITY REQUIRED, THE EXCESS SHALL BE SPREAD ON THE SITE WHERE DIRECTED BY THE ENGINEER OR DISPOSED OF OFFSITE.
- 4. ALL COMPACTED FILL AND BACKFILL MATERIAL SHALL BE SATISFACTORY MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. ALL FILL MATERIAL SHALL CONTAIN LESS THAN 3-PERCENT ORGANIC MATERIAL BY WEIGHT, LARGE ROCK GREATER THAN 4-INCHES, RUBBISH, OR OTHER UNSUITABLE MATERIAL. SAMPLES OF THE FILL MATERIALS SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO PLACEMENT. ALL FILL EMBANKMENTS AND UNDER BUILDING PAVED AREAS, SIDEWALKS, AND PADS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AND SHALL BE WITHIN +/-2% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM DENSITY TEST D-698. THE AREA OF COMPACTED FILL FOR THE BUILDING SHALL EXTEND AT LEAST 5-FEET BEYOND THE FOUNDATION WALLS. ALL FILLS OUTSIDE OF PAVEMENT, SIDEWALK OR BUILDING SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM DENSITY TEST D-698. FILL MATERIALS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8-INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO ENSURE COMPACTION SPECIFICATIONS DETAILED ABOVE ARE MET. EXCESSIVELY WET MATERIAL SHALL BE SPREAD AND DRIED SUFFICIENTLY SO THAT THE MOISTURE CONTENT WILL PERMIT PROPER COMPACTION. EACH LAYER SHALL BE UNIFORMLY COMPACTED USING A VIBRATORY COMPACTOR OR OTHER APPROVED EQUIPMENT SUITED TO THE LOCATION AND MATERIAL BEING PLACED. LIFTS SHALL NOT EXCEED 4-INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
- 5. IN-PLACE DENSITY TESTS SHALL BE PERFORMED THROUGHOUT THE BUILDING FILL EMBANKMENTS. AT EACH COMPACTED FILL AND BACKFILL LIFT, ONE (1) DENSITY TEST SHALL BE PERFORMED FOR EVERY 5000 SQ. FT OF FILL PLACED, BUT IN NO CASE FEWER THAN TWO (2) TESTS PER LIFT. AREAS WHERE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE COMPACTION SPECIFICATIONS ARE NOT OBTAINED SHALL BE REWORKED UNTIL COMPACTION CRITERIA IS ACHIEVED. APPROVED COMPACTED SUBGRADE DISTURBED BY CONTRACTOR'S SUBSEQUENT ACTIVITY OR ADVERSE WEATHER CONDITIONS SHALL BE SCARIFIED AND RECOMPACTED AS SPECIFIED ABOVE PRIOR TO CONTINUATION OF CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL ISSUE A REPORT DOCUMENTING THE SUFFICIENCY OF THE FINAL COMPACTED FILL TO ENGINEER.
- 6. UPON REACHING SUBGRADE ELEVATION IN AREAS THAT HAVE BEEN FILLED AND COMPACTED, OR IN AREAS WHERE THE PAVEMENT SUBGRADE ELEVATIONS ARE ACHIEVED WITHOUT FILL OPERATIONS, CONTRACTOR SHALL PROOF—ROLL SUBGRADE WITH A FULLY LOADED TRI—AXLE DUMP TRUCK, MEDIUM WEIGHT ROLLER OR OTHER APPROVED EQUIPMENT, TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIALS ARE PRESENT. POCKETS OF UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH SUBGRADE REINFORCEMENT OR COMPACTED GRANULAR FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PROOF—ROLLING OPERATIONS AND SHALL SUBMIT A REPORT OF ACCEPTANCE TO ENGINEER.
- 7. EXCAVATE FOR STRUCTURES TO WITHIN 0.1 FOOT OF THE DESIGN ELEVATIONS AND DIMENSIONS. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMS. DO NOT DISTURB THE BOTTOM OF THE EXCAVATION INTENDED FOR BEARING SURFACE. EXCAVATE BY HAND TO FINAL GRADE BEFORE PLACING CONCRETE FORMS AND REINFORCEMENT SO FOOTINGS AND FOUNDATIONS BEAR ON UNDISTURBED COMPACTED SOILS.
- 8. BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AND SHALL BE COMPACTED ACCORDING TO THE EARTHWORK NOTES. WHERE BACKFILLING IS REQUIRED ON BOTH SIDES OF A FOUNDATION WALL, THE BACKFILL MATERIAL SHALL BE PLACED EQUALLY ON BOTH SIDES TO AVOID UNBALANCED SOIL PRESSURE ON ONE SIDE OF THE WALL.
- 9. DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BE BALANCED. CONTRACTOR SHALL REVIEW THE EXISTING SITE CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS, INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.

GRADING NOTES:

- 1. CONTRACTOR SHALL TAKE PARTICULAR CARE WHEN GRADING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- 2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48—HOURS BEFORE SITE GRADING IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN GRADING OPERATIONS MAY IMPACT EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING GRADING.
- 3. CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
- 4. FOLLOWING THE COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE PLACED IN AREAS DESIGNATED FOR SEEDING, SODDING, OR LANDSCAPING TO A MINIMUM DEPTH OF 6 INCHES. THE FINISHED SURFACE SHALL BE UNIFORMLY AND SMOOTHLY GRADED AND SHALL BE FREE OF DEPRESSED AREAS WHERE WATER WILL POND. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT. THE FINISHED SURFACE GRADES SHALL NOT BE MORE THAN 0.1 FOOT ABOVE OR BELOW THE GRADES INDICATED ON THE PLANS. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND ADJACENT FILL EMBANKMENTS.
- 5. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. UPON REACHING FINAL GRADE, CONTRACTOR SHALL CORRECT ANY, STANDING WATER CONDITIONS.
- 6. ALL PROPOSED SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
 CONTRACTOR SHALL PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR SHALL NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE

WATER SYSTEM NOTES:

THIS CANNOT BE ACCOMPLISHED

- 1. ALL WATER LINES SHALL BE CONSTRUCTED IN SOUTH 43 WATER ASSOCIATION, INC TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS. AND SHALL MEET THE MINIMUM REQUIREMENTS OF SOUTH 43 WATER ASSOCIATION, INC.
- 2. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL GATE VALVES. VALVES SHALL BE INSTALLED WITH VALVE BOX ALIGNERS (POSI-CAPS) AND MUST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION SHALL BE RIGHT—HAND OPEN (COUNTERCLOCKWISE)
- 3. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 3'-0" OF COVER OVER TOP OF THE PIPE. A MINIMUM OF 18-INCH VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS AND SEWERS (SANITARY AND STORM).
- 4. CONTRACTOR SHALL PERFORM ALL OF THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE SHUT—OFFS WITH LOCAL UTILITY COMPANY.
- 5. THE COMPLETED WATER LINE SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH SOUTH 43 WATER ASSOCIATION, INC REQUIREMENTS.
- 6. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM OR SANITARY SEWERS, CONTRACTOR SHALL EITHER ADJUST THE WATER LINE IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.

SANITARY SEWER NOTES:

- SANITARY SEWER MAINS, LATERALS AND ALL OTHER SANITARY SEWER APERTURES SHALL BE IN ACCORDANCE WITH CITY OF GREENCASTLE SANITATION DISTRICT TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS, AND CITY OF GREENCASTLE. SANITARY SEWER CONSTRUCTION AND TESTING SHALL MEET THE REQUIREMENTS OF 327 INDIANA ADMINISTRATION CODE 3-6, TECHNICAL STANDARDS FOR SANITARY SEWER COLLECTION SYSTEMS.
- 2. SANITARY SEWERS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) SDR-35 PIPE, AND SHALL MEET OR EXCEED ASTM D-3034 OR ASTM F-679, AS APPLICABLE. JOINTS SHALL BE GASKETED, BELL AND SPIGOT TYPE, WITH THE BELL MADE INTEGRAL WITH THE PIPE. SANITARY SEWERS SHALL BE SDR-26 PIPE FOR DEPTHS OF 12 FT OR GREATER.
- 3. SANITARY SEWER BUILDING SERVICES SHALL BE 6-INCH DIAMETER PVC SDR-35 CONFORMING TO ASTM D-3034, LAID AT A MINIMUM SLOPE OF 1.04%, UNLESS NOTED OTHERWISE.
- 4. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).
- 5. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE PIPE INVERT DEPTH WHERE THE PROPOSED CONNECTION IS MADE TO THE EXISTING SANITARY SEWER. VERTICAL DEVIATIONS GREATER THAN 0.1 FT. AND HORIZONTAL DEVIATIONS GREATER THAN 1.0 FT. SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION AT THAT LOCATION.
- 6. ALL GRAVITY SEWERS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321-89, STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.
- 7. A DEFLECTION TEST SHALL BE PERFORMED ON EACH FLEXIBLE PIPE FOLLOWING THE ELAPSE OF THIRTY (30) DAYS AFTER THE PLACEMENT OF THE FINAL BACKFILL. THE PIPE MUST NOT EXCEED A DEFLECTION OF FIVE PERCENT (5%) OR GREATER. THE DIAMETER OF THE RIGID BALL OR MANDREL USED FOR A DEFLECTION TEST MUST BE NO LESS THAN NINETY—FIVE PERCENT (95%) OF THE BASE INSIDE DIAMETER OF THE PIPE TO BE TESTED. THE TEST MUST NOT BE PERFORMED WITH THE AID OF A MECHANICAL PULLING DEVICE.
- 8. ALL GRAVITY SEWER PIPE SHALL BE TESTED USING ONE (1) OF THE FOLLOWING LEAKAGE TEST TYPES: (i) A HYDROSTATIC TEST MUST BE PERFORMED WITH A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD. THE RATE OF EXFILTRATION OR INFILTRATION MUST NOT EXCEED TWO HUNDRED (200) GALLONS PER INCH OF PIPE DIAMETER PER LINEAR MILE PER DAY OR (ii) AN AIR TEST MUST CONFORM TO ASTM F1417-92, STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR, FOR PLASTIC PIPE.
- 9. MANHOLES MUST BE AIR TESTED IN ACCORDANCE WITH ASTM C1244-93, STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE (VACUUM) TEST.

STORM SEWER NOTES:

- 1. CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH THE PUTNAM COUNTY SURVEYOR'S OFFICE TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS.
- 2. ALL MAIN LINE STORM SEWER PIPE SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) PIPE. PIPE SHALL MEET AASHTO M294, TYPE S OR ASTM F2306. PIPE SHALL BE JOINED USING A BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF AASHTO M252, AASHTO M294, OR ASTM F2306. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY. PIPE SHALL HAVE AN EXTERIOR BELL WRAP INSTALLED BY THE MANUFACTURER TO ASSURE WATER TIGHTNESS. FIELD PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED BY TESTING IN ACCORDANCE WITH ASTM F2487.
- 3. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).
- 4. INLETS, JUNCTION BOXES AND MANHOLES MUST BE SIZED PROPERLY TO ACCOMMODATE THE PROPOSED PIPE SIZES.
- 5. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION.

EROSION CONTROL NOTES:

DITCHES AND PONDS TO DESIGNED GRADES.

- 1. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH PUTNAM COUNTY SURVEYOR'S OFFICE STANDARDS AND SPECIFICATIONS. DISCREPANCIES BETWEEN THE PLANS AND THE JURISDICTIONAL REQUIREMENTS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STANDARDS AND SPECIFICATIONS.
- 2. PERIMETER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY COMMENCING.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL AND EROSION CONTROL AND DUST CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN THE MEASURES THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT EROSION OF SOIL AND ENTRY OF SOIL—BEARING WATER AND AIRBORNE DUST ONTO ADJACENT PROPERTIES AND INTO THE PUBLIC STORM WATER FACILITIES.
- 4. THE EROSION CONTROL PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- 5. ALL CLEARING, DEMOLITION, EARTHWORK AND GRADING SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- 6. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE. SEDIMENT—LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE OR STORM
- 7. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF.
 PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED. CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS
 CLEAN AND FREE FROM ANY CONSTRUCTION RELATED DEBRIS.
- 8. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY. REMOVAL OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- 9. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER
- EACH RAINFALL EVENT AND AT LEAST ONCE PER WEEK.

 10. PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC IF INSTALLATION OF STORM DRAINAGE SYSTEM IS INTERRUPTED FOR ANY REASON.
- 11. WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF THE SITE,
 TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS
 AFTER THE ACTIVITY HAS CEASED. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL
 MINIMUM, ALTERNATIVE MEASURES OF SITE STABILIZATION ARE ACCEPTABLE IF THE CONTRACTOR CAN DEMONSTRATE THEY HAVE
 IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
- 12. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION, AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING, OR AS SOON AS POSSIBLE.
- MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

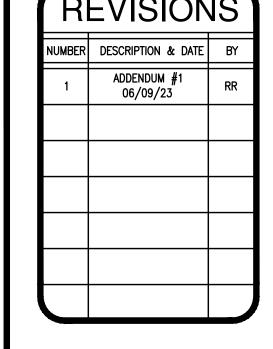
 14. INSTALL INLET PROTECTION ON STORM INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR

15. DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION

13. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED,

- PAVING OPERATION AND REPLACE AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS.
- UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.

 16. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL
- 17. CONTRACTOR SHALL REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.





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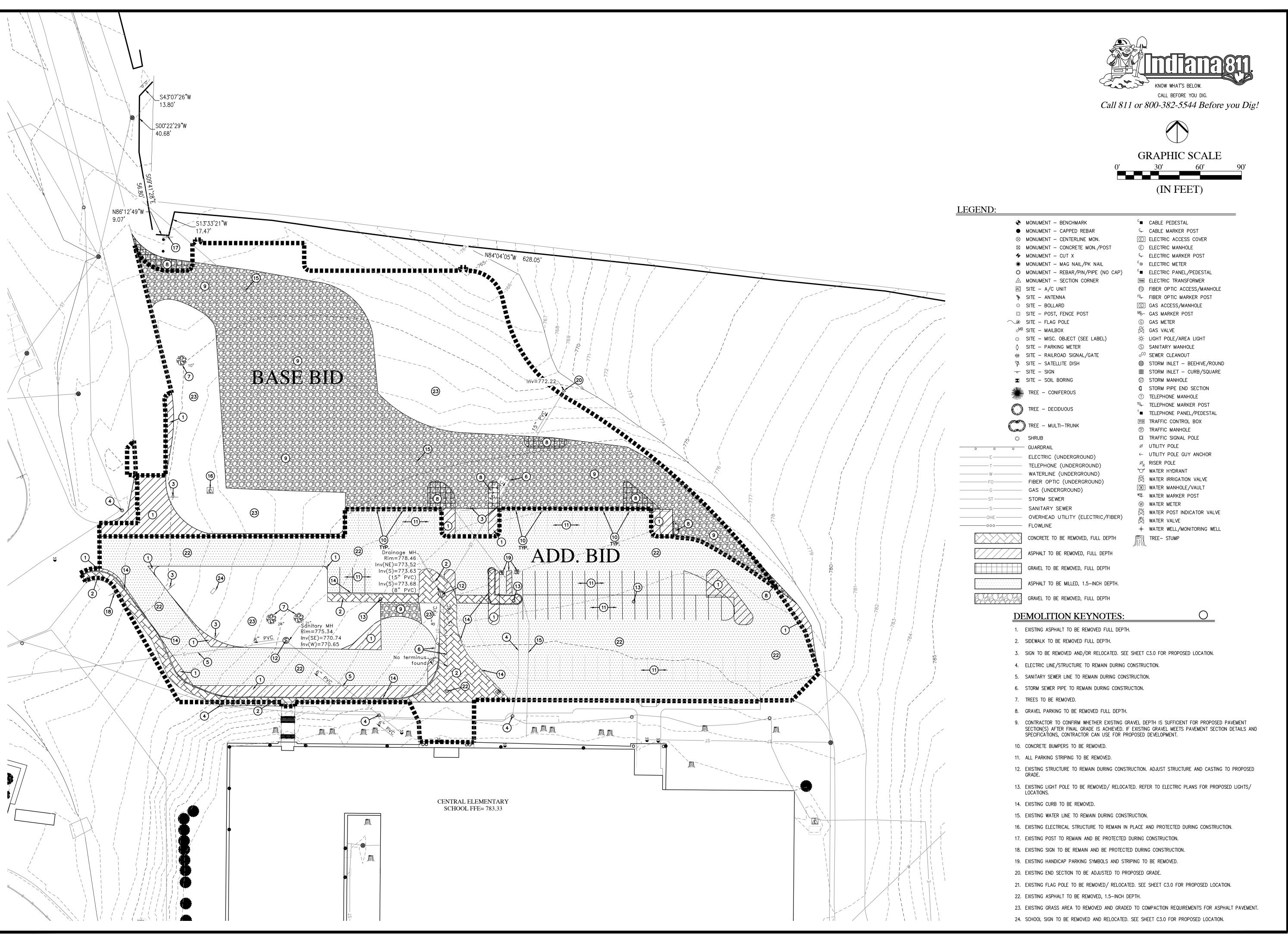
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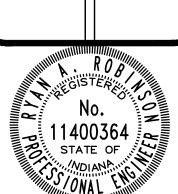


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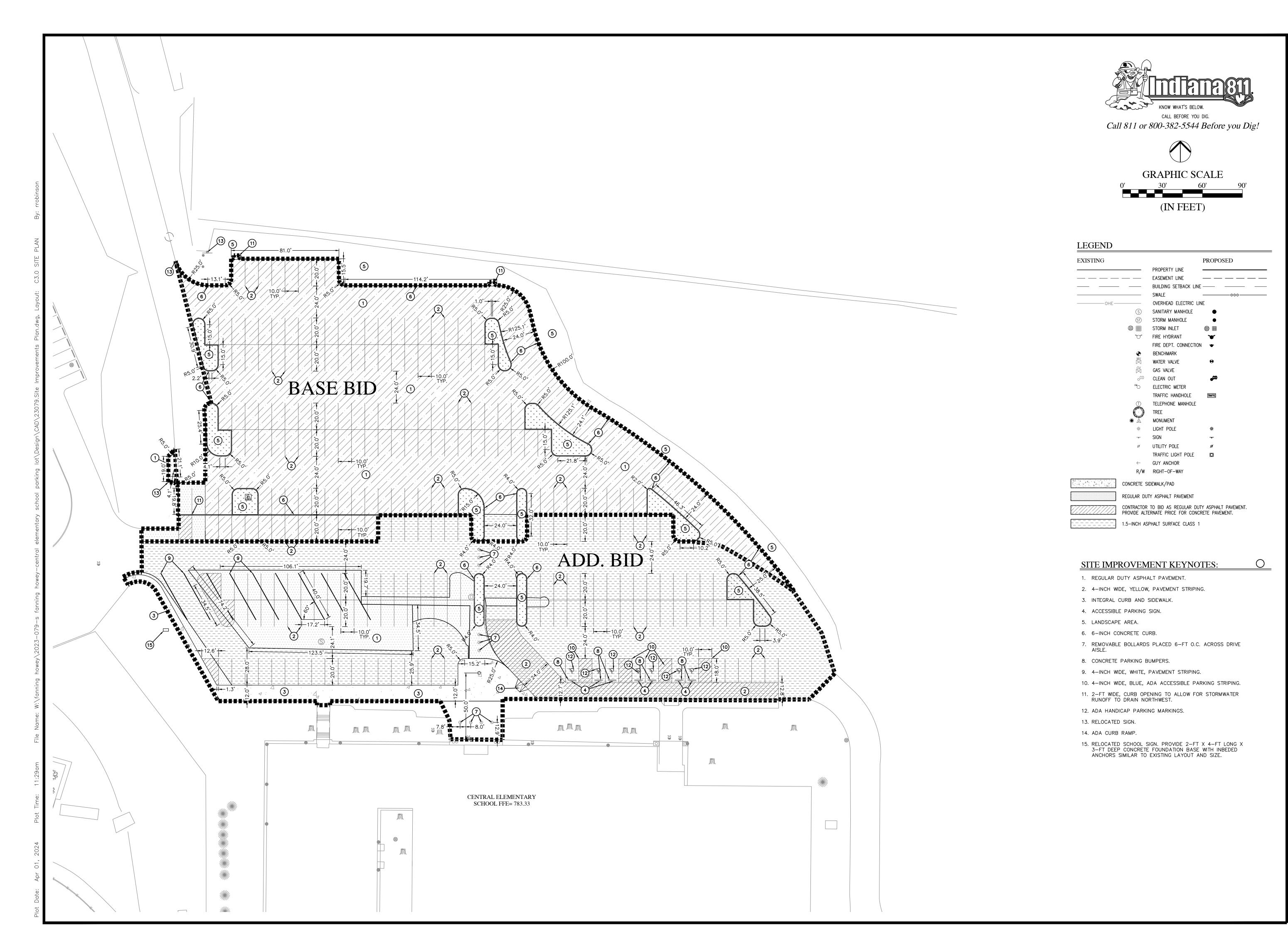
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EXISTING CONDITIONS AND DEMOLITION PLAN



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ELEMENTARY SCHOOL PARKING GREENCASTLE, IN SITE IMPROVEMENT PLAN

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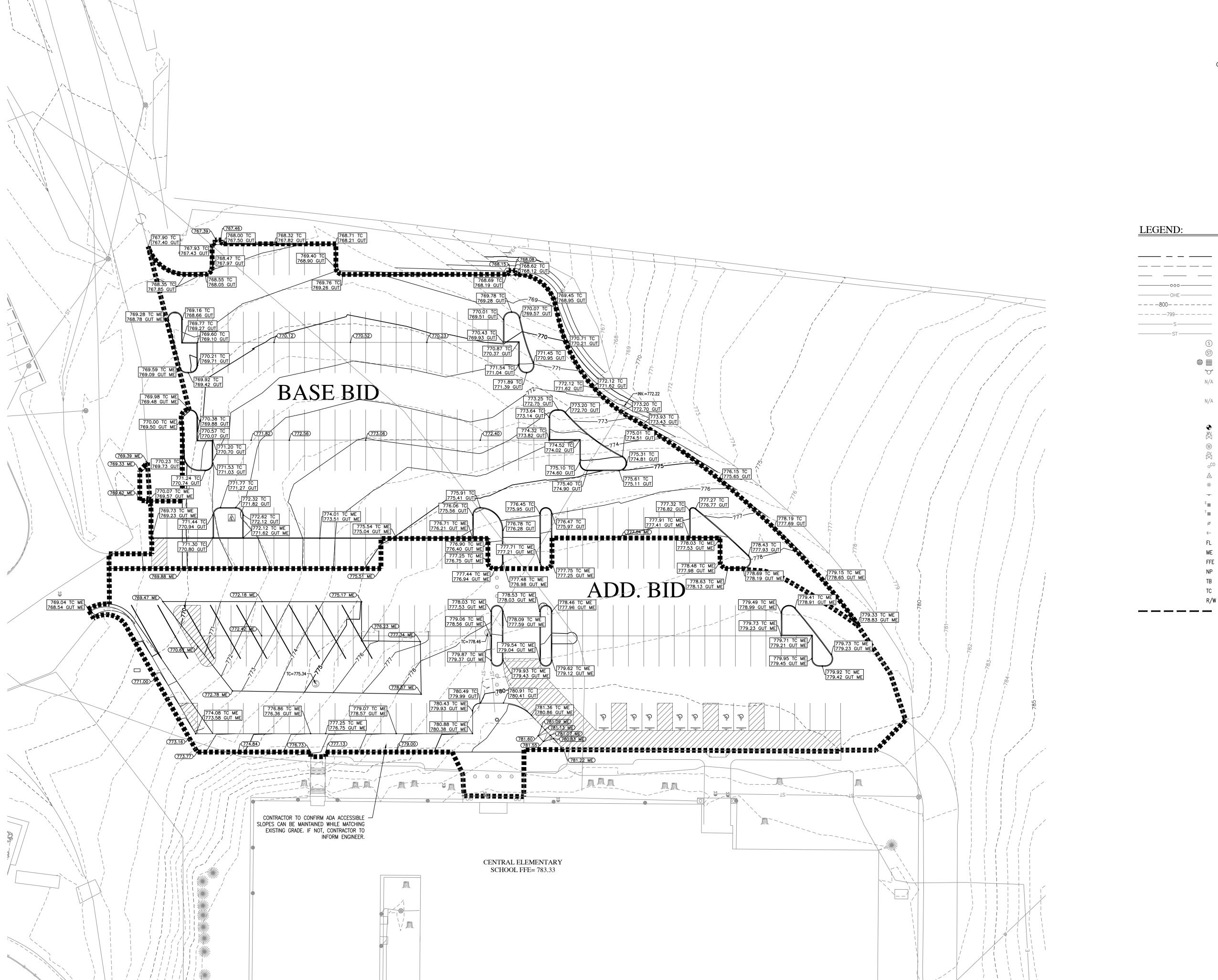
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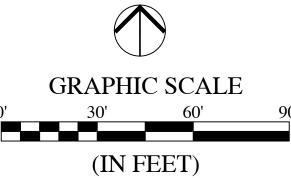
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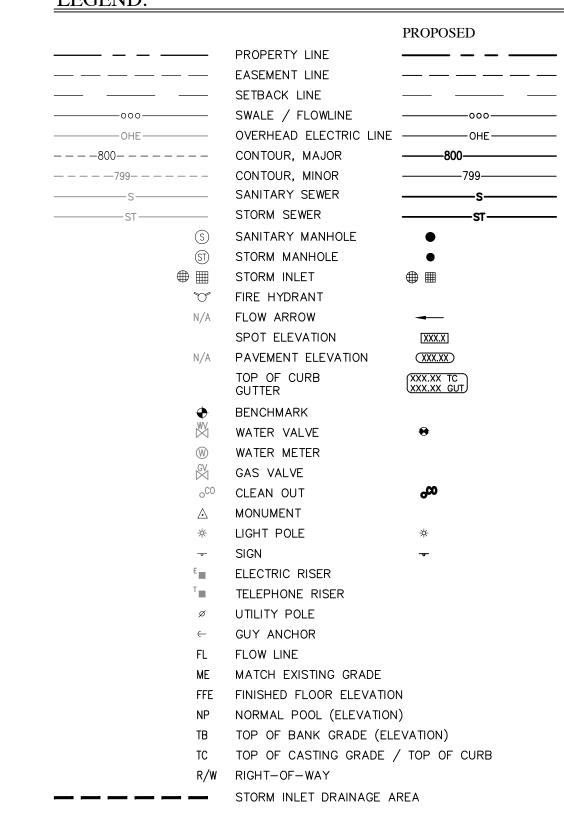
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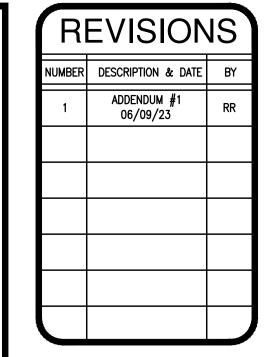
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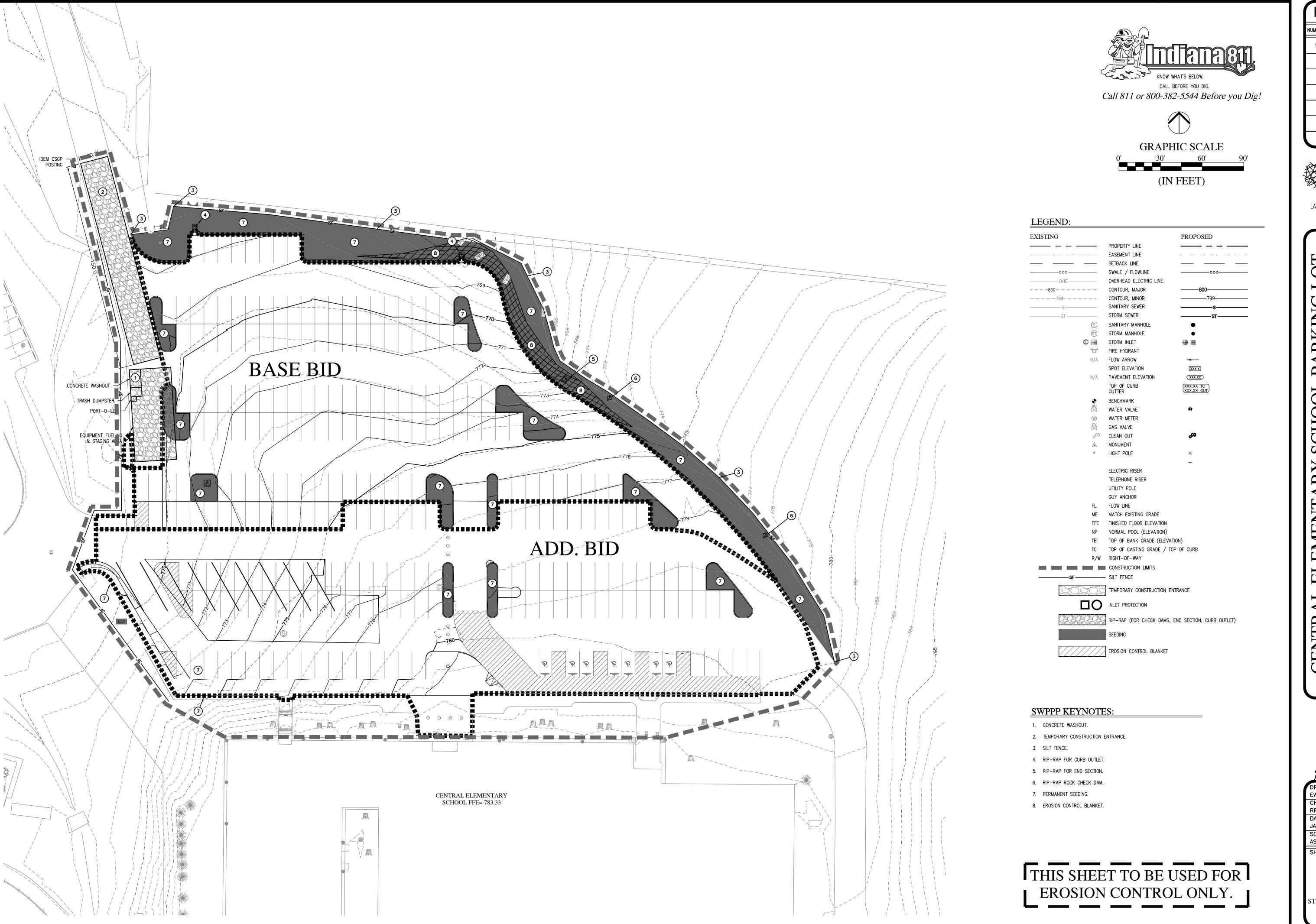
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PREVENTION PLAN

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PREVENTION PLAN

A1	PLAN INDEX		SEE COVER SHEET C1.0	
A2	VICINITY MAP		SEE COVER SHEET C1.0	
А3	PROJECT TYPE		THIS PROJECT IS: PARKING LOT EXPANSION, WITH AREA FOR TEMPORARY SCHOOL BUS PARKING AND REMOVABLE BOLLARDS.	
A4	LATITUDE AND LONGITUDE		THE LATITUDE IS 39°35'00.01" AND LONGITUDE IS 86°48'48.60"	
A5	LEGAL DESCRIPTION		REFER TO COVER SHEET C1.0.	
A6 A7	11X17 PLAT 100 YEAR FLOODPLAINS, FLOODWAYS AND FLOOD FRINGES		PROVIDED IN OVERALL SUBMITTAL. THE DEVELOPMENT LOCATED IN AN UNSHADED ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN) AS INDICATED ON THE FEMA FLOOD INSURANCE RATE MAP 18133C0255C DATED 06/05/2012.	
A8	ADJACENT LAND USES		NORTH: RESIDENTIAL EAST: AGRICULTURAL SOUTH: AGRICULTURAL WEST: AGRICULTURAL	
A9	IDENTIFICATION OF U.S. EPA APPROVED OR ESTA	ABLISHED	TMDL: NO, IMPAIRED: NO	
A10 A11	RECEIVING WATERS IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(d) LIST OF IMPAIRED WATERS AND THE		UPPER LIMESTONE CREEK IS THE RECEIVING WATER FOR THE PROJECT AREA. DEER CREEK — TMDL: NO, IMPAIRED: NO	
A12 A13	POLLUTANT(S) FOR WHICH IT IS IMPAIRED. SOILS MAP LOCATION OF WETLANDS, LAKES, WATER COURSES		REFER TO COVER SHEET C1.0 NONE	
	ADJACENT TO SITE			
A14 A15	STATE OR FEDERAL WATER QUALITY PERMITS IDENTIFICATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS		IDEM CONSTRUCTION STORMWATER GENERAL PERMIT SEE SHEET C2.0 FOR EXISTING VEGETATIVE COVER.	
A16	EXISTING SITE TOPOGRAPHY		SEE SHEET C2.0	
A17	LOCATION(S) WHERE RUNOFF ENTERS PROJECT S	SITE	SEE SHEET C2.0	
A18	LOCATION(S) WHERE RUNOFF DISCHARGES FROM PROJECT SITE PRIOR TO LAND DISTURBANCE	THE	SEE SHEETS C2.0	
A19	LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE.	Ξ	SEE SHEET C2.0	
A20	EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DES	IGNED	N/A	
A21	FOR THE PURPOSE OF STORMWATER MANAGEMEN LOCATIONS WHERE STORMWATER MAY BE DIRECT DISCHARGED INTO GROUNDWATER, SUCH AS ABA WELLS, SINKHOLES, OR KARST FEATURES	LY	N/A	
A22	PROJECT AREA		3.58 ACRES	
A23	LAND DISTURBANCE		3.03 ACRES	
A24 A25	PROPOSED SITE TOPOGRAPHY LOCATIONS AND BOUNDARIES OF DISTURBED ARE	EAS	SEE SHEET C4.0 SEE SHEET C8.0	
A26	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED STORMWATER SYSTEM		N/A	
A27	POINTS WHERE STORMWATER WILL DISCHARGE SI	TE	CAPTURED BY PIPE AND CONVEYED TO THE EXISTING DETENTION POND LOCATED IN THE DEVELOPMENT PLAN THAT WAS MASTERPLANNED FOR THESE IMPROVEMENTS.	
A28	LOCATION OF ALL PROPOSED SITE IMPROVEMENT INCLUDING ROADS, UTILITIES, LOT DELINEATION A IDENTIFICATION, PROPOSED STRUCTURES AND COAREAS.	'ND	SEE SHEET C3.0	
A29	LOCATION OF SOIL STOCKPILE		SEE SHEET C8.0	
A30	CONSTRUCTION SUPPORT ACTIVITIES THAT ARE E TO BE PART OF THE PROJECT	XPECTED	NONE	
A31	LOCATION OF ANY IN STREAM ACTIVITIES THAT A PLANNED FOR THE PROJECT INCLUDED BUT NOT TO, STREAM CROSSINGS AND PUMP AROUNDS		N/A	
B1	CONSTRUCTION ACTIVITIES	WASHOUT, OPERATION ON THE SI COATINGS INFRASTRU ASSOCIATE	DILS AND SEDIMENTS; OILS, GREASES, COOLANTS, CONCRETE PETROLEUM FUELS AND OTHER FLUIDS ASSOCIATED WITH AND MAINTENANCE OF CONSTRUCTION EQUIPMENT PRESENT TE; DEBRIS INCLUDING CUTTINGS, SEALANTS, ADHESIVES, AND ASSOCIATED WITH INSTALLATION OF UNDERGROUND PIPES, CTURE AND CONSTRUCTION OF THE BUILDING; PAINTS D WITH PAVEMENT MARKING; FERTILIZERS ASSOCIATED WITH ND PLANTING.	
B2	AND SPECIFICATIONS	FOR LOCAT	Y GRAVEL CONSTRUCTION ENTRANCE TION: SEE SHEET C8.0 L: SEE SHEET C8.3	
В3	TEMPORARY AND PERMANENT STABILIZATION ML AS ML PE SE FU GR FO		TEMPORARY SEEDING IS REQUIRED FOR ANY POTENTIAL IDLE AREA AND MUST INITIATE STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH AS TEMPORARY SEEDING AND MULCH. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION PER IDEM CONSTRUCTION STORMWATER GENERAL PERMIT. TEMPORARY SEEDING IS ALSO REQUIRED IN AREAS THAT WILL BE DISTURBED IN FUTURE PROJECTS. THIS SEEDING WILL BE PLACED AFTER FINISH GRADING AND TOPSOIL REPLACEMENT. FOR LOCATIONS: SEE SHEET C8.0 FOR DETAIL: SEE SHEET C8.3	
		EROSION C WITH THE SANITARY TOPSOIL A FOR LOCA	T SEEDING WILL BE APPLIED WITH THE INSTALLATION OF THE CONTROL BLANKETS AROUND THE PONDS, EMBANKMENTS, COMPLETION OF STORM DRAINAGE SYSTEM, SWALES, SEWER AND WATER LINES, AND AFTER REPLACEMENT OF S DESCRIBED IN THE CONSTRUCTION SEQUENCING. TIONS: SEE SHEET C8.0 L: SEE SHEET C8.3	
B4	AREAS	EROSION C REDUCE VE FOR LOCA	CK DAMS, TEMPORARY DIVERSION SWALES, SEDIMENT TRAPS, CONTROL BLANKETS AND RIP—RAP WILL BE INSTALLED TO ELOCITY AND COLLECT SEDIMENT RUNOFF. TIONS: SEE SHEET C8.0 LS: SEE SHEET C8.3	
B5	SEDIMENT CONTROL FOR SHEET FLOW AREAS	SILT FENCE PROJECT T FOR LOCA	E WILL BE INSTALLED ALONG THE PERIMETER OF THE OCCLLECT SEDIMENT RUNOFF. TIONS: SEE SHEET C8.0	
B6	RUNOFF CONTROL MEASURES	ALMOST AL CAN BE VI ENTRANCE CRITICAL L SEDIMENT DISPOSAL AND REMO COLLECT S REDUCES FOR EROSI INCREASE SEDIMENT FOR LOCAT	L: SEE SHEET C8.3 LL OF THE EROSION CONTROL MEASURES USED AT THIS SITE EWED AS RUNOFF CONTROL MEASURES. CONSTRUCTION STABILIZES EARTH TO MINIMIZE SEDIMENT RUNOFF AT OCATIONS OF ACCESS POINTS TO THE SITE TO MINIMIZE TRACKING ON STREETS. CONCRETE WASHOUT AREA ARE AREAS FOR CONTAINMENTS AND ACCESSIBLE FOR CLEANUP VAL OFFSITE. SILT FENCE AND INLET PROTECTION MEASURES SEDIMENT LADEN RUNOFF PRIOR TO LEAVING SITE. RIP RAP THE ENERGY OF THE RUNOFF AND THUS REDUCES POTENTIAL VE SOILS. EROSION CONTROL BLANKETS ANCHOR MATTING TO SEED GERMINATION AND STABILIZE SLOPES TO MINIMIZE RUNOFF. TIONS: SEE SHEET C8.0 LS: SEE SHEET C8.3	
В7	STORMWATER OUTLET PROTECTION	RIP RAP W PONDS, AN FOR LOCA	VILL BE INSTALLED AT ALL STORM PIPE OUTLETS INTO THE ID ALL POND OUTLETS AS OUTLET PROTECTION. TIONS: SEE SHEET C8.0 LS: SEE SHEET C8.3	
B8 B9	GRADE STABILIZATION STRUCTURES DEWATERING APPLICATIONS AND MANAGEMENT METHODS	NONE ALL CONTE AN APPRO VARY FROM FOUNDATIC DEWATERIN CLEAN. O THE END O REQUIRES MONITORIN DEWATERIN	RACTORS AND VENDORS ARE RESPONSIBLE FOR PREPARING PRIATE DEWATERING PLAN BASED ON NEED, WHICH CAN WILLITY INSTALLATION, LOWERING OF PONDS, HOME DIS/BASEMENTS ETC. IN NO CIRCUMSTANCES SHOULD IG OPERATIONS BEGIN BASED ON THE ASSUMPTION WATER IS FITEN SEDIMENT LADEN WATER IS ENCOUNTERED TOWARDS OF THE OPERATION AND NOT THE BEGINNING. DEWATERING INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT INTENSIVE MEASURES FOR MAINTENANCE, SUBMIT INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT INTENSIVE MEASURES FOR MAINTENANCE, FOR ONTRACTOR MANAGER FOR APPROVAL.	

SEE SHEET C8.0

B10 MEASURES UTILIZED FOR WORK WITHIN

B11 MAINTENANCE GUIDELINES FOR EACH

PROPOSED STORMWATER QUALITY MEASURE

WATERBODIES

B12 SCHEDULE OF STORMWATER STORMWATER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED TO ELIMINATE QUALITY MEASURES RELATED TO SEDIMENT FROM LEAVING THE PROJECT DURING CONSTRUCTION ACTIVITIES PROTECTING LAND DISTURBING ACTIVITIES ADJOINING PROPERTIES AND THE RECEIVING WATERS. PRE-CONSTRUCTION SCHEDULE

1 CONTRACTOR TO CALL INDIANA UNDERGROUND 811 BY CALLING 811 OR 800-382-5544 TO VERIFY LOCATION OF EXISTING UTILITIES TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION.

2 CONTRACTOR SHALL INSTALL STONE CONSTRUCTION ENTRANCE PRIOR TO THE START OF EARTHWORK IN ACCORDANCE WITH THE PLAN LOCATION ON SHEET C8.0.

3 CONTRACTOR TO INSTALL IDEM CONSTRUCTION STORMWATER GENERAL PERMIT INFORMATION POSTING, TRASH DUMPSTER, AND PORT-O-LET AS SHOWN ON SHEET C8.0.

4 CONTRACTOR TO INSTALL EXISTING STORM INLET PROTECTION AROUND THE PERIMETER OF THE SITE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL EVALUATE EXISTING EROSION CONTROL MEASURES AND USE AND MAINTAIN,

REPLACE AS NECESSARY. 5 CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCE AROUND THE PERIMETER OF THE ENTIRE SITE PRIOR TO ANY

EARTHWORK ACTIVITIES SUCH AS EARTH MOVING OR STRIPPING AS WELL AS TREE CLEARING.

6 CONTRACTOR SHALL INSTALL CONCRETE WASHOUT AREA AND CONSTRUCTION STAGING AREA PRIOR TO THE START OF EARTHWORK ACTIVITIES AS SHOWN ON SHEET C8.0. 7 CONTRACTOR TO EVALUATE LOCATION OF SOIL STOCKPILE AREAS AND PREPARE BY PLACING SILT FENCE DEFINING LIMITS,

8 CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCE AROUND THE PERIMETER OF THE OFFSITE CONSTRUCTION LIMITS AS WELL AS ANY REQUIRED TREE PROTECTION FENCING PRIOR TO OFFSITE PHASE OF WORK.

9 DEWATERING: ALL CONTRACTORS AND VENDORS ARE RESPONSIBLE FOR PREPARING AN APPROPRIATE DEWATERING PLAN BASED ON NEED, WHICH CAN VARY FROM UTILITY INSTALLATION, LOWERING OF PONDS, HOME FOUNDATIONS/BASEMENTS ETC. IN NO CIRCUMSTANCES SHOULD DEWATERING OPERATIONS BEGIN BASED ON ASSUMPTION WATER IS CLEAN. OFTEN SEDIMENT LADEN WATER IS ENCOUNTERED TOWARDS THE END OF THE OPERATION AND NOT THE BEGINNING. DEWATERING REQUIRES INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT MONITORING, CLEANOUT, REPAIR AND/OR REPLACEMENTS. SUBMIT DEWATERING PLAN PRIOR TO COMMENCING WORK TO CONTRACTOR PROJECT MANAGER FOR APPROVAL.

10 ONCE PERIMETER ELEMENTS ARE INSTALLED, ANY UTILITY MODIFICATION OR RELOCATION PER SHEET C3.0 CAN COMMENCE IN FINAL PREPARATION FOR MASS EARTHWORK OPERATIONS. ALL INTERIM FLOW REQUIREMENTS SUCH AS ROCK CHECK DAMS AND TEMPORARY SWALES SHALL BE COMPLETED PRIOR TO MASS EARTHWORK OPERATIONS. THESE MEASURES SHALL BE MAINTAINED AND ADJUSTED AS NEEDED UNTIL COMPLETION OF EARTHWORK AND THE SITE HAS BEEN FULLY STABILIZED. EROSION CONTROL ADJUSTMENTS DURING DIFFERENT PHASES OF CONSTRUCTION ARE LIKELY REQUIRED AND SUBJECT TO WEATHER CONDITIONS.

CONSTRUCTION SCHEDULE

11 BEGIN CLEARING AND GRADING ACTIVITIES AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND ITEMS 1-10 OF THE PRE-CONSTRUCTION SCHEDULE ARE COMPLETE. EARTHMOVING SHALL BE DONE IN A MANNER TO MINIMIZE EROSION. CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER AND UTILITY CONNECTION LOCATIONS AND ELEVATION PRIOR TO MOVING EARTH, CONTACT ENGINEER WITH ANY DISCREPANCIES. AS GRADING PROGRESSES, INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO CONTAIN SEDIMENT ON SITE.

12 CONTRACTOR SHALL STRIP TOPSOIL AND GRADE THE SITE PER PLAN AND PLACE PERMANENT AND TEMPORARY SEED AS INDICATED ON THE PLAN, INCLUDING SEEDING WITH FIBER BLANKET ON MOUNDS, POND BANKS, SWALES. DURATION OF EXPOSED AREAS SHALL BE KEPT MINIMAL DEPENDENT ON WEATHER. ALL POTENTIALLY IDLE AREAS SHALL INITIATE STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH AS TEMPORARY SEEDING AND MULCH. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION PER IDEM CONSTRUCTION STORMWATER

13 PERMANENT AND FINAL VEGETATION, IN ADDITION TO STRUCTURAL MEASURES, SHALL BE INSTALLED AS SOON AS

14 INSTALL STORM SEWER SYSTEM, SUBSURFACE DRAINAGE SYSTEM, AND SWALES. ALL STORM SEWER INLET PROTECTION SHALL BE INSTALLED AT THE TIME EACH INLET IS CONSTRUCTED PER SHEET C8.0.

15 CONTRACTOR SHALL INSTALL REMAINING UTILITIES AND RE-SEED ALL DISTURBED AREAS.

16 CONTRACTOR SHALL INSTALL ALL PROPOSED PAVEMENT AS INDICATED ON PLANS.

17 INSTALL CONSTRUCTION CONCRETE WASHOUT. CONTRACTOR PROJECT MANAGER TO ORDER PREFABRICATED CONCRETE WASHOUT LOW PROFILE DUMPSTER FROM "CONSTRUCTION WASTE" COMPANY AND PROVIDE DIRECTION ON LOCATION FOR

18 INSTALL PERMANENT OR TEMPORARY SOIL STABILIZATION AND LANDSCAPING.

19 CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AND UNTIL SEDIMENTATION OF STREETS AND STORM SEWERS NO LONGER OCCURS. CONTRACTOR SHALL INSPECT ON A WEEKLY BASIS OR AFTER A SIGNIFICANT STORM EVENT (AN EVENT OF AT LEAST 0.5 INCHES OF RAINFALL). SEE SHEETS C8.0-C8.3 FOR DETAILS AND SPECIFICATIONS.

20 COMPLETE FINAL GRADING AND INSTALL SEEDING AND LANDSCAPING. STABILIZE ALL REMAINING EXPOSED AREAS AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.

21 ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH IDEM CONSTRUCTION STORMWATER GENERAL PERMIT.

B13 N/A

B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN

MATERIAL HANDLING:

1. THE PROPER MANAGEMENT AND DISPOSAL OF WASTE SHOULD BE PRACTICED ON SITE AT ALL TIMES TO REDUCE POLLUTION OF STORM WATER RUNOFF. HAZARDOUS WASTE SHOULD ALWAYS BE DISPOSED OF THROUGH A DESIGNATED HAZARDOUS WASTE MANAGEMENT OR RECYCLING FACILITY. 2.DESIGNATE A WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY INTO A BODY OF

3.KEEP PRODUCTS IN ORIGINAL CONTAINERS WITH ORIGINAL LABELS AND MATERIAL SAFETY DATA INFORMATION ATTACHED. MAKE SURE PRODUCTS ARE PROPERLY SEALED TO PREVENT LEAKS AND SPILLS AND STORED IN A WEATHER PROOF SELF CONTAINED AREA AWAY FROM HEAT, SPARKS AND FLAMES. 4.A PROGRAM FOR RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE SHALL BE ESTABLISHED BY THE CONTRACTOR. ALL RECYCLING CONTAINERS SHALL BE CLEARLY LABELED. 5.ALL CONSTRUCTION ACTIVITIES ARE TO BE MONITORED AND MAINTAINED BY THE CONTRACTOR. AS EACH NEW SUBCONTRACTOR COMES ON-SITE, THE CONTRACTOR WILL CONDUCT AND DOCUMENT A MEETING TO ENSURE AWARENESS OF THE POLLUTANT PREVENTION PROGRAM. GUIDELINES FOR PROPER HANDLING, STORAGE AND DISPOSAL OF CONSTRUCTION SITE WASTES SHALL BE POSTED IN THE STORAGE AND USE AREAS, AND WORKERS SHALL BE TRAINED IN THESE PRACTICES.
6.CONTAINERS AND EQUIPMENT MUST BE INSPECTED REGULARLY FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR ANY OTHER SIGNS OF DETERIORATION AND MUST BE TESTED FOR SOUNDNESS. ANY FOUND TO BE DEFECTIVE SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.

SPILL PREVENTION PLAN:

THE INTENTION OF THIS SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) IS TO ESTABLISH THE PROCEDURES AND EQUIPMENT REQUIRED TO PREVENT THE DISCHARGE OF OIL AND HAZARDOUS SUBSTANCES IN QUANTITIES THAT VIOLATE APPLICABLE WATER QUALITY STANDARDS. CAUSE A SHEEN UPON OR DISCOLORATION OF THE SURFACE OF NAVIGABLE WATERS OR ADJOINING SHORELINES, OR CAUSE SLUDGE OR EMULSION TO BE DEPOSITED BENEATH THE SURFACE OF THE WATER OR ADJOINING SHORELINES. THE PLAN ALSO ESTABLISHES THE ACTIVITIES REQUIRED TO MITIGATE SUCH DISCHARGES (I.E., COUNTERMEASURES) SHOULD THEY OCCUR.

POLLUTANT: MEANS POLLUTANT OF ANY KIND OR IN ANY FORM, INCLUDING BUT NOT LIMITED TO SEDIMENT, PAINT, CLEANING AGENT, CONCRETE WASHOUT, PESTICIDES, NUTRIENTS, TRASH, HYDRAULIC FLUIDS, FUEL, OIL, PETROLEUM, FUEL OIL, SLUDGE, OIL REFUSE, AND OIL MIXED WITH WASTES OTHER THAN DREDGED SOIL.

INCLUDES BUT IS NOT LIMITED TO, ANY SPILLING, LEAKING, PUMPING, POURING, EMITTING, EMPTYING, OR DUMPING.

NAVIGABLE WATERS: MEANS ALL WATERS OF THE UNITED STATES THAT ARE CONNECTED WITH A NAVIGABLE STREAM, LAKE, OR SEA. [NOTE: THIS DEFINITION IS USUALLY INTERPRETED TO MEAN ANY WASTEWATER (EVEN NORMALLY DRY WASH OR STORM SEWER) THAT EVENTUALLY DRAINS INTO A NAVIGABLE STREAM].

PLAN REVIEW AND AMENDMENTS: THIS PLAN SHALL BE REVIEWED AND/OR AMENDED, IF NECESSARY, WHENEVER THERE IS A CHANGE IN THE DESIGN OF THE SITE, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH MATERIALLY AFFECTS THE SITE'S POTENTIAL FOR THE DISCHARGE OF REGULATED MATERIAL.

PREDICTION OF POTENTIAL SPILLS: 1. NEAREST NAVIGABLE WATER: DEER CREEK 2.DRAINAGE SYSTEM: ALL STORM DRAINAGE LEAVES THE SITE NORTHWEST DIRECTION THROUGH A STORM LINE AND ENTERS A VEGATATIVE SWALE INTO DEER CREEK. 3.POSSIBLE SPILL SOURCES (DURING AND POST CONSTRUCTION): VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, GREASE, ANTIFREEZE; TRASH AND DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH AND DEBRIS, FERTILIZERS, HOUSEHOLD ITEMS INCLUDING BUT NOT LIMITED TO CLEANING AGENTS, CHEMICALS, PAINT, HERBICIDES AND PESTICIDES.

THE FACILITY MAINTAINS NO ABOVE GROUND OR UNDER GROUND STORAGE TANKS AT THIS SITE.
THEREFORE, IT IS FELT THAT THERE IS LITTLE OR NO POSSIBILITY OF POST CONSTRUCTION
GROUNDWATER CONTAMINATION. THE FACILITY DOES HAVE PUBLIC SANITARY SEWER AND PUBLIC

ALERT PROCEDURES FOR SPILLS: 1. ANY PERSONNEL OBSERVING A SPILL WILL IMMEDIATELY INSTIGATE THE FOLLOWING PROCEDURE: A. DIALING "911" FROM ANY TELEPHONE B. NOTIFY THE APPROPRIATE EMERGENCY PERSONNEL.

2. THE EMERGENCY COORDINATOR WILL THEN TAKE THE FOLLOWING ACTIONS:

A BARRICADE THE AREA ALLOWING NO VEHICLES TO ENTER OR LEAVE THE SPILL ZONE B. NOTIFY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE BY CALLING THE APPROPRIATE TELEPHONE NUMBER: OFFICE 317-233-7745

TOLL FREE 800-233-7745 ALSO THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND PROVIDE THE FOLLOWING INFORMATION:

— TIME OF OBSERVATION OF THE SPILL LOCATION OF THE SPILL IDENTITY OF MATERIAL SPILLED

PROBABLE SOURCE OF PROBABLE TIME OF THE SPILL

VOLUME OF THE SPILL AND DURATION PRESENT AND ANTICIPATED MOVEMENT OF THE SPILL

WEATHER CONDITIONS PERSONNEL AT THE SCENE

4. GROUNDWATER CONTAMINATION:

— ACTION INITIATED BY PERSONNEL
C. NOTIFY THE CITY OF PUTNAM FIRE DEPARTMENT PHONE: 9-1-1 D. NOTIFY THE CITY OF PUTNAM POLICE DEPARTMENT PHONE: 9-1-1

BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

E. NOTIFY WASTE RECOVERY CONTRACTOR, MAINTENANCE PERSONNEL OR OTHER CONTRACTUAL PERSONNEL AS NECESSARY FOR CLEANUP. F. COORDINATE AND MONITOR CLEANUP UNTIL THE SITUATION HAS BEEN STABILIZE AND ALL SPILLS HAVE BEEN ELIMINATED.

G. COOPERATE WITH THE IDEM-OER ON PROCEDURES AND REPORTS INVOLVED WITH THE EVENT.

CLEANUP PARAMETERS: I. THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC-TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEAN-UP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEAN-UP SUPPLIES SHOULD BE KEPT ON SITE. 2. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION AND CONTAINMENT OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW

INFORMATION ON THE PREVENTION OF SPILLS AND/OR NECESSARY ALTERATIONS TO THIS PLAN.

3. IF SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE, THIS BECOMES THE PRIMARY CONCERN.
THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS.

4. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. 5. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY VEHICLE & EQUIPMENT MAINTENANCE

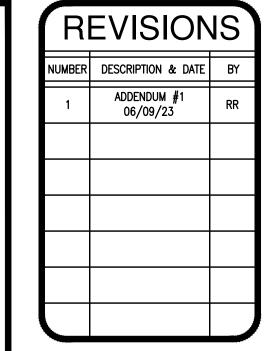
DESCRIPTION AND PURPOSE:

PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS

SUITABLE APPLICATIONS: THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES.

ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES/EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. OUTDOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS).

> STORMWATER POLLUTION PREVENTION PLAN IS IN COMPLIANCE WITH THE REQUIREMENTS OF IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP)





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TORMWATER POLLUTION

PLAN NOTES

DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA.

PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER

USE ABSORBENT MATERIALS ON SMALL SPILLS, REMOVE THE ABSORBENT MATERIALS PROMPTLY AND

DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY, OR

KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILD-UP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE.

TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS.

DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATERCOURSE.

PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES.

DO NOT BURY USED TIRES.

REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE.

MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION.

VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.

USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. THESE BUSINESSES ARE BETTER EQUIPPED TO HANDLE FUEL AND SPILLS PROPERLY. PERFORMING THIS WORK OFFSITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE FUELING AREA AT A SITE.

DISCOURAGE "TOPPING OFF' OF FUEL TANKS.

ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.

DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE

ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS.

TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL GRADE AREAS.

PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN

NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.

FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE

GROUND STORAGE TANKS. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE AIRED IMMEDIATELY, OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT

KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE.

IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP

MATERIALS.

CONCRETE WASHOUT
THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES:
THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES:
THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES: DISCUSS THE CONCRETE MANAGEMENT TECHNIQUES DESCRIBED IN THIS BMP (SUCH AS HANDLING OF CONCRETE WASTE AND WASHOUT) WITH THE READY MIX CONCRETE SUPPLIER BEFORE ANY DELIVERIES

INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIES AND SUBCONTRACTOR AGREEMENTS.

STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.

AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.

PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY.

DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS. FOR ONSITE WASHOUT

LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. AVOID CREATING RUNOFF BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.

SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

SUITABLE APPLICATIONS THIS BMP IS SUITABLE FOR CONSTRUCTION SITES WHERE THE FOLLOWING WASTES ARE GENERATED OR SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES (RUBBLE), AND BUILDING CONSTRUCTION.

PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES

DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES.

CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NONHAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER MATERIALS FROM TRANSPORT AND PACKAGE CONSTRUCTION MATERIALS

IMPLEMENTATION SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE.

INFORM CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY.

PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF

COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER.

MAKE SURE THAT TOXIC LIQUID WASTES (USED OILS, SOLVENTS, AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNATED FOR

DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR.

ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW.

CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL.
MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS.

INCORPORATE REQUIREMENTS FOR SOLID WASTE MANAGEMENT INTO BUILDER AND SUBCONTRACTOR AGREEMENTS.

LITTERING ON THE PROJECT SITE SHOULD BE PROHIBITED.

TO PREVENT CLOGGING OF THE STORM DRAINAGE SYSTEM, LITTER AND DEBRIS REMOVAL FROM DRAINAGE GRATES, TRASH RACKS, AND DITCH LINES SHOULD BE A PRIORITY.

TRASH RECEPTACLES SHOULD BE PROVIDED IN THE CONTRACTOR'S YARD, FIELD TRAILER AREAS, AND AT LOCATIONS WHERE WORKERS CONGREGATE FOR LUNCH AND BREAK PERIODS.

LITTER FROM WORK AREAS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SITE SHOULD BE COLLECTED AND PLACED IN WATERTIGHT DUMPSTERS AT LEAST WEEKLY, REGARDLESS OF WHETHER THE LITTER WAS GENERATED BY THE CONTRACTOR, THE PUBLIC, OR OTHERS. COLLECTED LITTER AND DEBRIS SHOULD NOT BE PLACED IN OR NEXT TO DRAIN INLETS, STORMWATER DRAINAGE SYSTEMS, OR

DUMPSTERS OF SUFFICIENT SIZE AND NUMBER SHOULD BE PROVIDED TO CONTAIN THE SOLID WASTE GENERATED BY THE PROJECT.

FULL DUMPSTERS SHOULD BE REMOVED FROM THE PROJECT SITE AND THE CONTENTS SHOULD BE DISPOSED OF BY THE TRASH HAULING CONTRACTOR.

CONSTRUCTION DEBRIS AND WASTE SHOULD BE REMOVED FROM THE SITE BIWEEKLY OR MORE FREQUENTLY AS NEEDED.

CONSTRUCTION MATERIAL VISIBLE TO THE PUBLIC SHOULD BE STORED OR STACKED IN AN ORDERLY

STORMWATER RUNON SHOULD BE PREVENTED FROM CONTACTING STORED SOLID WASTE THROUGH THE USE OF BERMS, DIKES, OR OTHER TEMPORARY DIVERSION STRUCTURES OR THROUGH THE USE OF MEASURE TO ELEVATE WASTE FROM SITE SURFACES.

SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT. FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREA PRONE TO FLOODING OR PONDING.

INSPECTION AND MAINTENANCE INSPECT CONSTRUCTION WASTE AREA WEEKLY.

DEWATERING AND PUMPING OPERATIONS DESCRIPTION AND PURPOSE

ARRANGE FOR REGULAR WASTE COLLECTION.

THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED.

DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF POLLUTANTS WHEN NON-STORMWATER AND ACCUMULATED PRECIPITATION MUST BE REMOVED FROM A WORK LOCATION SO

THESE PRACTICES ARE IMPLEMENTED FOR DISCHARGES OF NON-STORMWATER FROM CONSTRUCTION SITES. NON-STORMWATERS INCLUDE, BUT ARE NOT LIMITED TO, GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS, AND WATERS USED DURING CONSTRUCTION ACTIVITIES THAT MUST BE REMOVED FROM A WORK AREA. PRACTICES IDENTIFIED IN THIS SECTION ARE ALSO APPROPRIATE FOR IMPLEMENTATION WHEN MANAGING THE REMOVAL OF ACCUMULATED PRECIPITATION (STORMWATER) FROM DEPRESSED AREAS AT A CONSTRUCTION SITE.

SITE CONDITIONS WILL DICTATE DESIGN AND USE OF DEWATERING OPERATIONS. THE CONTROLS DISCUSSED IN THIS BEST MANAGEMENT PRACTICE (BMP) ADDRESS SEDIMENT ONLY. THE CONTROLS DETAILED IN THIS BMP ONLY ALLOW FOR MINIMAL SETTLING TIME FOR SEDIMENT PARTICLES. USE ONLY WHEN SITE CONDITIONS RESTRICT THE USE OF THE OTHER CONTROL METHODS. DEWATERING OPERATIONS WILL REQUIRE, AND MUST COMPLY WITH, APPLICABLE LOCAL

DEWATERING DISCHARGES MUST NOT CAUSE EROSION AT THE DISCHARGE POINT. A VARIETY OF METHODS CAN BE USED TO TREAT WATER DURING DEWATERING OPERATIONS. SEVERAL DEVICES ARE PRESENTED BELOW AND PROVIDE OPTIONS TO ACHIEVE SEDIMENT REMOVAL. THE SIZE OF PARTICLES PRESENT IN THE SEDIMENT AND PERMIT OR RECEIVING WATER LIMITATIONS ON SEDIMENT ARE KEY CONSIDERATIONS FOR SELECTING SEDIMENT TREATMENT OPTION(S); IN SOME CASES, THE USE OF MULTIPLE DEVICES MAY BE APPROPRIATE.

A SEDIMENT TRAP IS A TEMPORARY BASIN FORMED BY EXCAVATION AND/OR CONSTRUCTION OF AN EARTHEN EMBANKMENT ACROSS A WATERWAY OR LOW DRAINAGE AREA TO DETAIN RUNOFF AND ALLOW SEDIMENT TO SETTLE OUT BEFORE DISCHARGING. SEDIMENT TRAPS ARE GENERALLY SMALLER THAN SEDIMENT BASINS.

APPROPRIATE APPLICATIONS EFFECTIVE FOR THE REMOVAL OF LARGE AND MEDIUM SIZED PARTICLES (SAND AND GRAVEL) AND SOME METALS THAT SETTLE OUT WITH THE SEDIMENT.

IMPLEMENTATION EXCAVATION AND CONSTRUCTION OF RELATED FACILITIES IS REQUIRED. TRAP INLETS SHOULD BE LOCATED TO MAXIMIZE THE TRAVEL DISTANCE TO THE TRAP OUTLET. USE ROCK OR VEGETATION TO PROTECT THE TRAP OUTLETS AGAINST EROSION.

MAINTENANCE IS REQUIRED FOR VEGETATION, EMBANKMENT, INLET AND OUTFALL STRUCTURES, AS WELL AS OTHER FEATURES. REMOVAL OF SEDIMENT IS REQUIRED WHEN THE STORAGE VOLUME IS REDUCED

GRAVITY BAG FILTER (DEWATERING BAG)

APPROPRIATE APPLICATIONS

A GRAVITY BAG FILTER, ALSO REFERRED TO AS A DEWATERING BAG, IS A SQUARE OR RECTANGULAR BAG MADE OF NON-WOVEN GEOTEXTILE FABRIC THAT COLLECTS SAND, SILT, AND FINES.

EFFECTIVE FOR THE REMOVAL OF SEDIMENTS (GRAVEL, SAND, AND SILT). SOME METALS ARE REMOVED WITH THE SEDIMENT.

WATER IS PUMPED INTO ONE SIDE OF THE BAG AND SEEPS THROUGH THE BOTTOM AND SIDES OF THE BAG. A SECONDARY BARRIER, SUCH AS A ROCK FILTER BED OR STRAW/HAY BALE BARRIER, IS PLACED

BENEATH AND BEYOND THE EDGES OF THE BAG TO CAPTURE SEDIMENTS THAT ESCAPE THE BAG.

INSPECTION OF THE FLOW CONDITIONS, BAG CONDITION, BAG CAPACITY, AND THE SECONDARY BARRIER IS REQUIRED. REPLACE THE BAG WHEN IT NO LONGER FILTERS SEDIMENT OR PASSES WATER AT A REASONABLE RATE. THE BAG IS DISPOSED OF OFFSITE.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE: LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, GREASE, ANTIFREEZE, METALS, RUBBER FRAGMENTS, ROAD GRIT, SALTS AND SANDS, TRASH AND DEBRIS, FERTILIZERS, CLEANING AGENTS CHEMICALS, PAINT, ANIMAL WASTE, ELEVATED STORM RUNOFF TEMPERATURES, PESTICIDES AND PATHOGENS.

C2 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES;

VEGETATED SWALES
THE VEGETATED SWALES INSTALLED DURING CONSTRUCTION WILL SLOW RUNOFF AND ACT AS A SLOWING THE RUNOFF WILL NOT ONLY ALLOW SEDIMENT TO DROP OUT, BUT LIMIT THE ABILITY FOR THE STORM WATER TO ERODE AND CARRY POLLUTANTS DOWNSTREAM.

PERMANENT SEEDING WILL BE PLACED TO ACT AS A FILTER AND TO PREVENT EROSION.

WET / DRY DETENTION BASIN
BASINS COLLECT, TEMPORARILY HOLD, AND GRADUALLY RELEASE EXCESS STORM WATER FROM STORM EVENTS. DETENTION IS ACHIEVED THROUGH THE USE OF AN OUTLET STRUCTURE THAT REGULATES THE RATE OF STORM WATER OUTFLOW. SEDIMENTS AND OTHER POLLUTANTS THAT ENTER THE STORMWATER SYSTEM FOR THE PROJECT SITE WILL BE ALLOWED TO SETTLE OUT PRIOR TO DISCHARGING INTO THE RECEIVING WATERS.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF STORMWATER QUALITY

FOR LOCATIONS SEE PLAN SET: SHEET C8.0 FOR DETAILS: SEE SHEET C8.3

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

REFERENCE EROSION CONTROL SEQUENCING SEE PLAN SET: POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLANS, SHEET C8.0

VEGETATED SWALES
THEY WILL BE CONSTRUCTED DURING AND FOLLOWING THE MASS GRADING OF THE SITE. THEY WILL BE IMMEDIATELY STABILIZED WITH PERMANENT SEEDING AND MULCH AND EROSION CONTROL BLANKETS AS SHOWN ON THE PLAN. THEY WILL PERSIST IN THE POST CONSTRUCTION PHASE AS

PERMANENT SEEDING OF EXPOSED AREAS SHALL BE INITIATED ON THE SEVENTH (7TH) DAY AND STABILIZATION ACTIVITIES SHALL BE COMPLETED BY THE FOURTEENTH (14) DAY ONCE FINAL

WET / DRY DETENTION BASIN
BASINS COLLECT, TEMPORARILY HOLD, AND GRADUALLY RELEASE EXCESS STORM WATER FROM STORM EVENTS. DETENTION IS ACHIEVED THROUGH THE USE OF AN OUTLET STRUCTURE THAT REGULATES THE RATE OF STORM WATER OUTFLOW. SEDIMENTS AND OTHER POLLUTANTS THAT ENTER THE STORMWATER SYSTEM FOR THE PROJECT SITE WILL BE ALLOWED TO SETTLE OUT PRIOR TO DISCHARGING INTO THE RECEIVING WATERS

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY

<u>VEGETATED SWALES</u>
THE VEGETATED SWALES SHOULD BE CHECKED ANNUALLY FOR ISSUES RELATED TO PERFORMANCE. DURING THIS TIME TRASH SHOULD BE REMOVED, SEED PLANTED IF NECESSARY, AND ANY EROSION PROBLEMS ADDRESSED. THE GRASS IN THE SWALE SHOULD BE KEPT AT A 3"-4" HEIGHT. MAINTENANCE ASSOCIATED WITH THE VEGETATED SWALE IS THE RESPONSIBILITY OF THE LOCAL

PERMANENT SEEDING
PERMANENT SEEDING AREAS SHOULD BE CHECKED ANNUALLY FOR ISSUES RELATED TO PERFORMANCE. DURING THIS TIME PLANT SEED IF NECESSARY AND ANY EROSION PROBLEMS ADDRESSED. TRASH SHOULD BE REMOVED ON AN AS NEED BASIS. THE GRASS SHOULD BE KEPT TO A 3" - 4' HEIGHT. MAINTENANCE IS THE RESPONSIBILITY OF THE LOCAL LANDOWNER

WET/ DRY DETENTION BASIN
BASINS COLLECT, TEMPORARILY HOLD, AND GRADUALLY RELEASE EXCESS STORM WATER FROM STORM EVENTS. DETENTION IS ACHIEVED THROUGH THE USE OF AN OUTLET STRUCTURE THAT REGULATES THE RATE OF STORM WATER OUTFLOW. SEDIMENTS AND OTHER POLLUTANTS THAT ENTER THE STORMWATER SYSTEM FOR THE PROJECT SITE WILL BE ALLOWED TO SETTLE OUT PRIOR TO DISCHARGING INTO THE RECEIVING WATERS

C6 ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES:

INITIAL: DEVELOPER - CONTRACTOR LONG-TERM: CENTRAL ELEMENTARY SCHOOL NUMBER DESCRIPTION & DATE | BY 06/09/23



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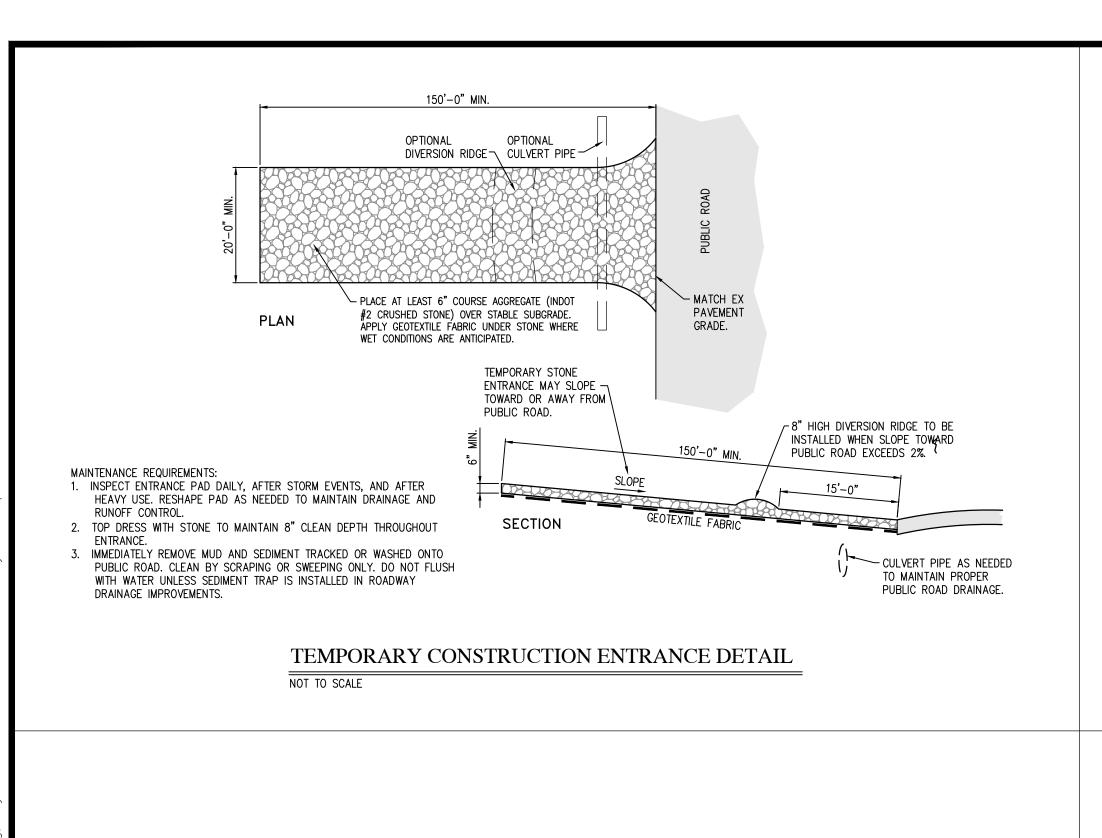
<u> Yan A. Robinso</u> CHECKED BY JANUARY 29, 2024 SCALE AS SHOWN

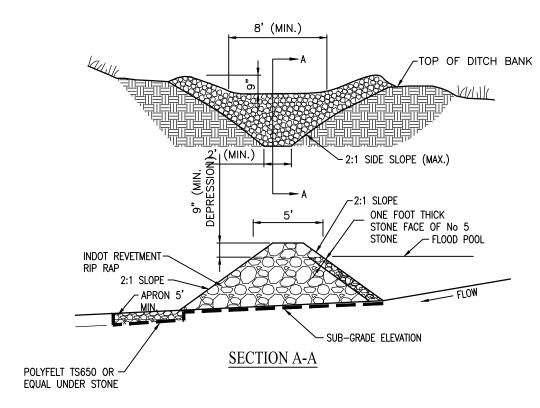
TORMWATER POLLUTION PLAN NOTES

STORMWATER POLLUTION PREVENTION PLAN IS IN

COMPLIANCE WITH THE REQUIREMENTS OF IDEM

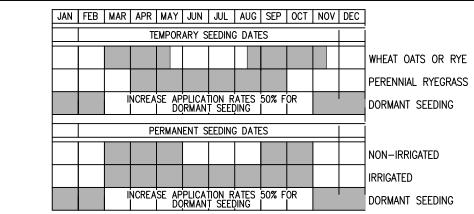
CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP)





RIP-RAP ROCK CHECK DAM NOT TO SCALE

SEEDING SCHEDULE

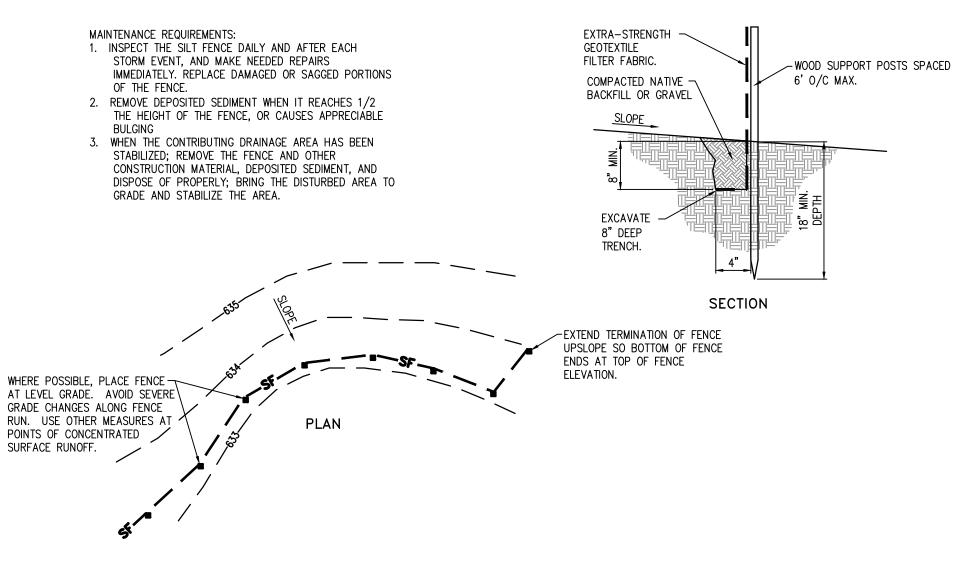


. PERMANENT SEEDING INFORMATION SHOWN ON THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. IF THE LANDSCAPING PLANS AND SPECIFICATIONS CONTAIN INFORMATION CONCERNING PERMANENT LAWN SEEDING AND/OR SODDING, THEN THAT INFORMATION SHALL SUPERSEDE SIMILAR INFORMATION INDICATED ON THIS SHEET.

- 2. AREAS TO BE SEEDED SHALL BE SMOOTH AND UNIFORM AND SHALL BE IN ACCORDANCE WITH THE FINISHED GRADE AND CROSS SECTION SHOWN ON THE PLANS.
- 3. AREAS TO BE SEEDED SHALL HAVE A MINIMUM TOPSOIL DEPTH OF 6 INCHES. LIGHTLY COMPACT PLACED TOPSOIL BY ROLLING OR TAMPING.

STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.

- 4. PRIOR TO REPLACING TOPSOIL, LOOSEN SUBSOIL TO ENSURE GOOD BOND WITH TOPSOIL.
- 5. APPLY SEEDING WITH 400 LB/ACRE OF 12-12-12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF
- 6. ON SLOPES GRADED AT 6:1 OR STEEPER, SEED SHALL BE HELD IN PLACE WITH EROSION CONTROL BLANKET, OR EQUIVALENT METHOD.
- 7. SEED MIXTURES AND APPLICATION RATES: GRASS MIX APPLIED AT 170 LB/ACRE (4 LB/1000 SQ.FT.) COMPRISED OF THE FOLLOWING: KENTUCKY 31 FESCUE - 95 LB/ACRE PERENNIAL RYEGRASS - 65 LB/ACRE JASPER RED FESCUE - 10 LB/ACRE



SILT FENCE DETAIL

OR TO EDGE OF

RIPRAP DETAIL FOR END SECTION DETAIL

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NOT TO SCALE

CULVERT

NOTES

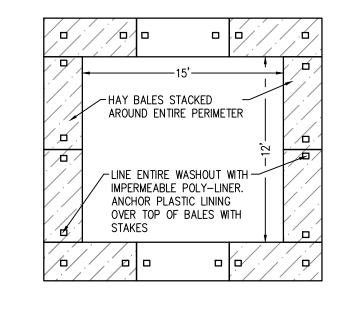
1. AVERAGE STONE SIZE FOR RIPRAP TO BE 6".

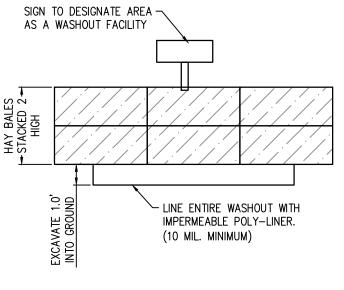
2. MINIMUM THICKNESS OF RIPRAP TO BE 12".

NOT TO SCALE

3. GEOTEXTILE TO BE POLYFELT TS700 OR

APPROVED EQUAL.





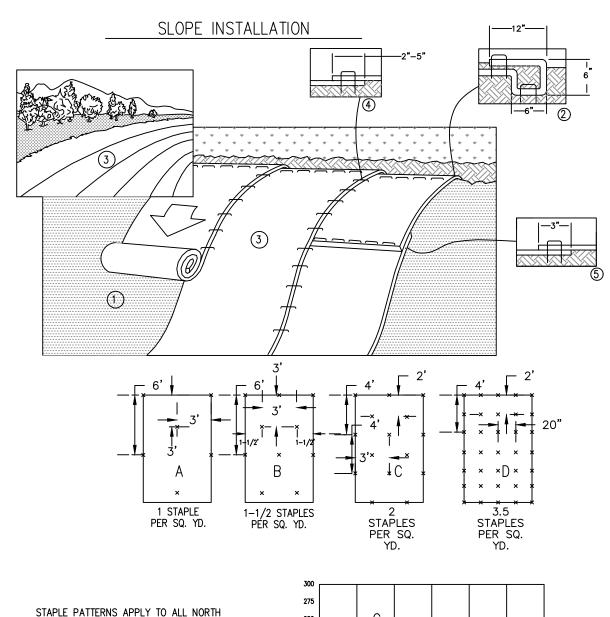
NOTE: FACILITY TO BE LOCATED AWAY FROM STREAMS, PONDS, OR OTHER DRAINAGE WAYS.

MAINTENANCE REQUIREMENTS:

SYSTEM OR BASIN FOR FURTHER DEWATERING.

- 1. INSPECT DAILY AFTER EACH STORM EVENT. 2. INSPECT THE INTEGRITY OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT
- 3. INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- 4. INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- 5. ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- 6. EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- 7. UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- 8. DISPOSE OF ALL CONCRETE IN A LEGAL MANOR. REUSE THE MATERIAL ON SITE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE.
- 9. THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- 10. THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- 11. CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE USED TO UTILIZED A SECONDARY CONTAINMENT
- 12. INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS. CONTRACTORS. AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- 13. WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- 14. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

CONCRETE WASHOUT DETAIL NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS WILL VARY

DEPENDING UPON SLOPE LENGTH, SLOPE GRADE, SOIL TYPE AND AVERAGE ANNUAL

- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECEP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM)) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
- 3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" 5" (5 CM -12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
- 5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
- *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

EROSION CONTROL BLANKET DETAIL

GREE ME

NUMBER DESCRIPTION & DATE BY

ADDENDUM #1

06/09/23

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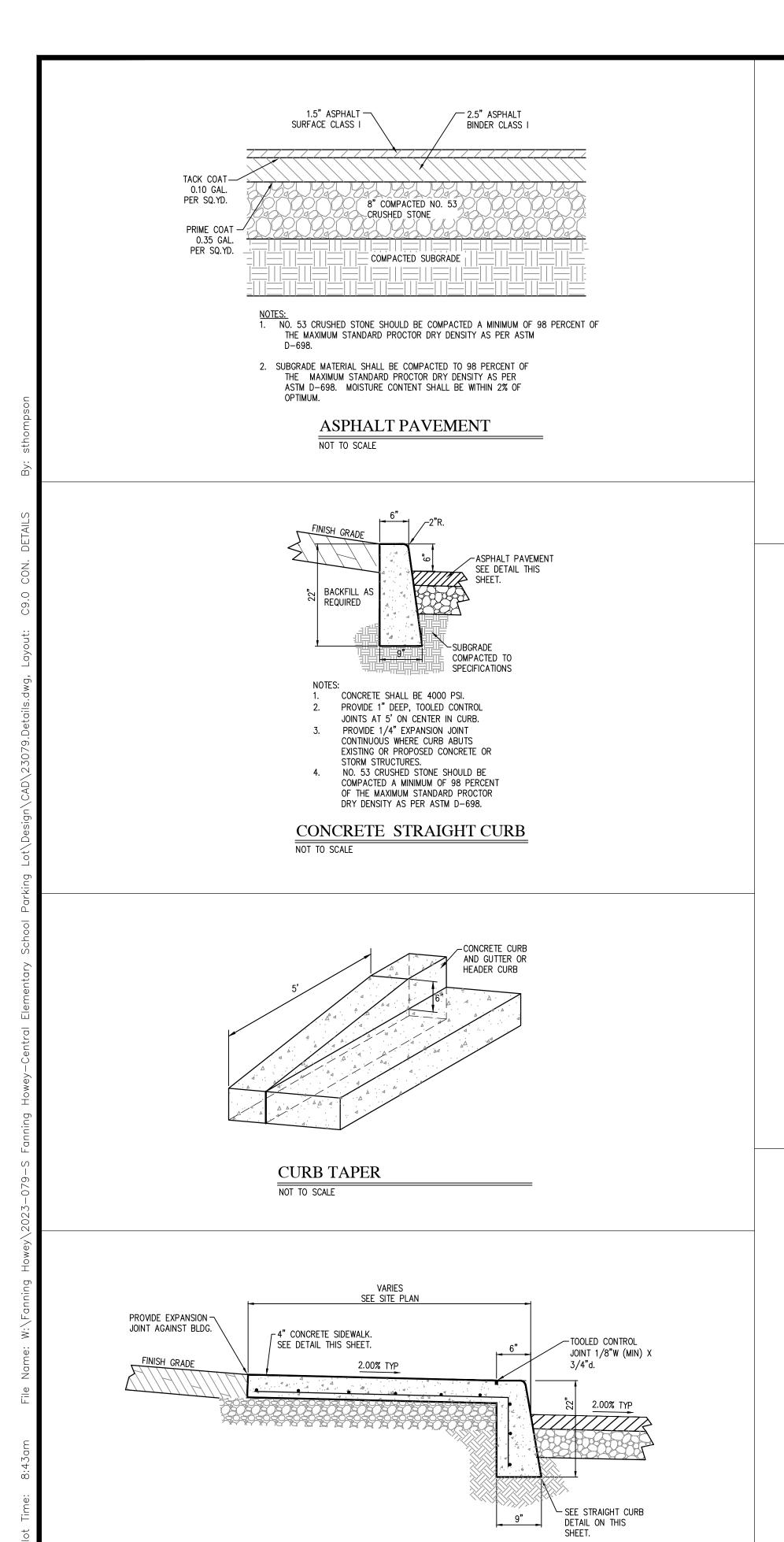
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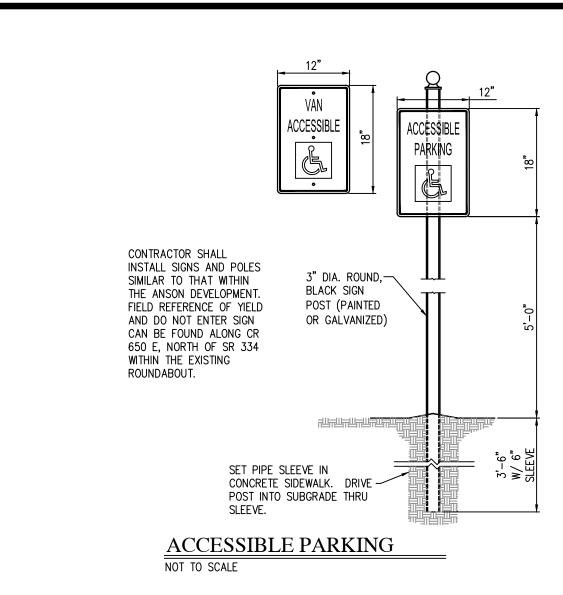
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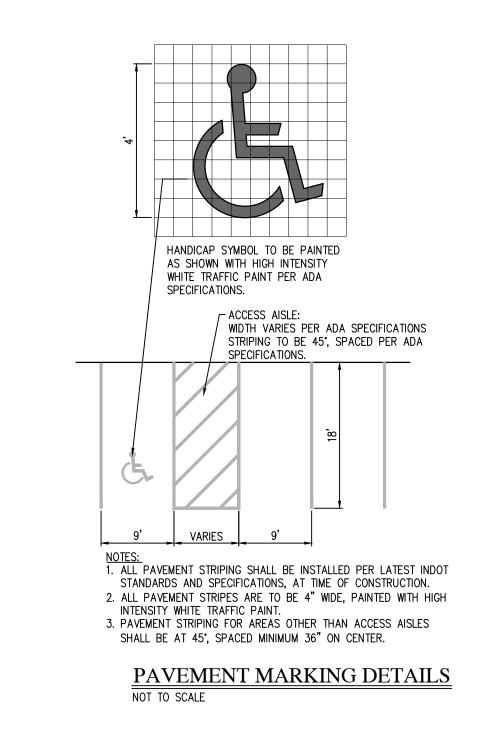
TORMWATER POLLUTION PREVENTION DETAILS

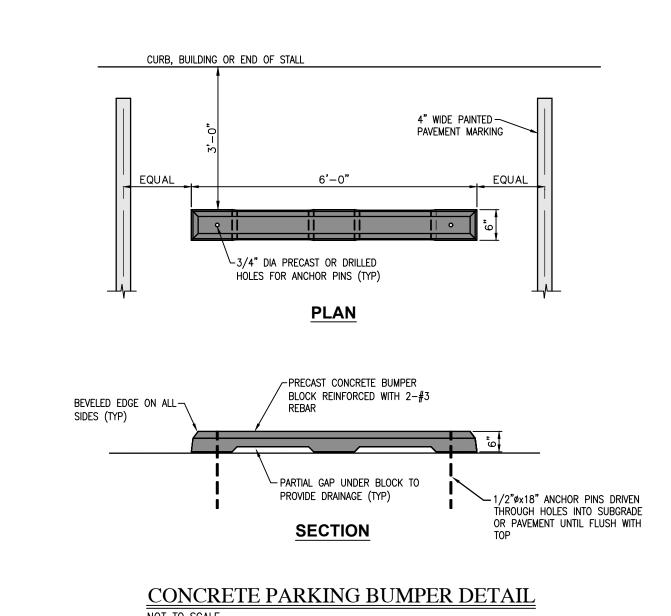


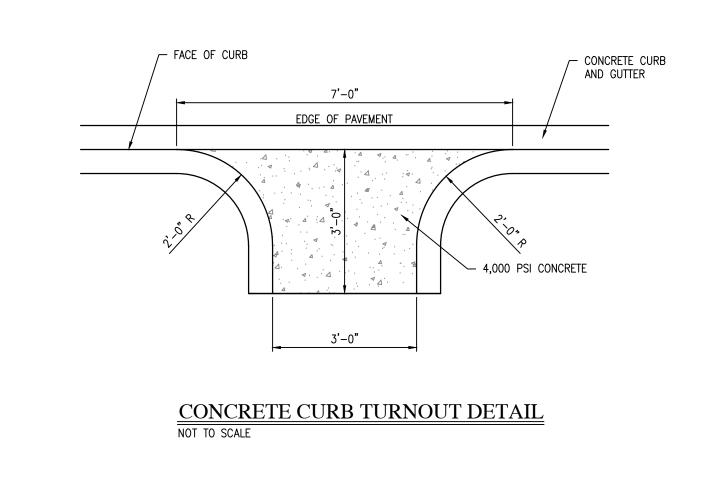
INTEGRAL CONCRETE CURB & SIDEWALK

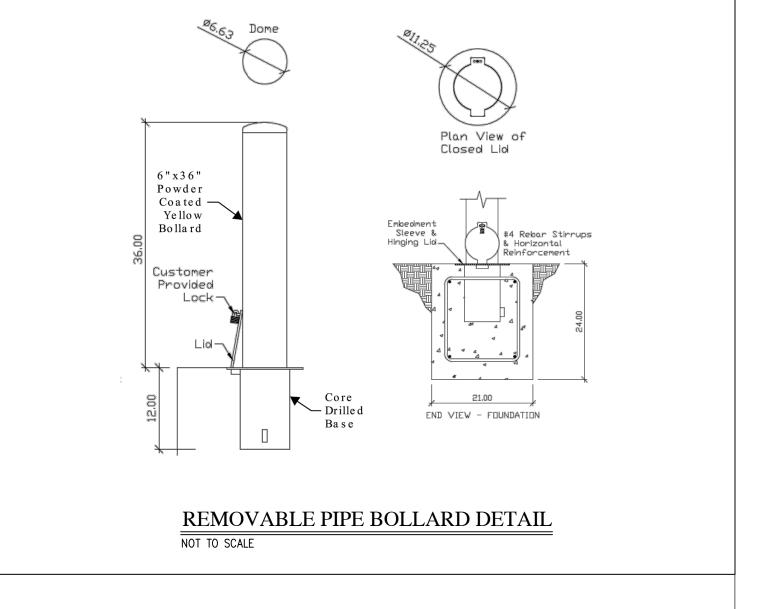
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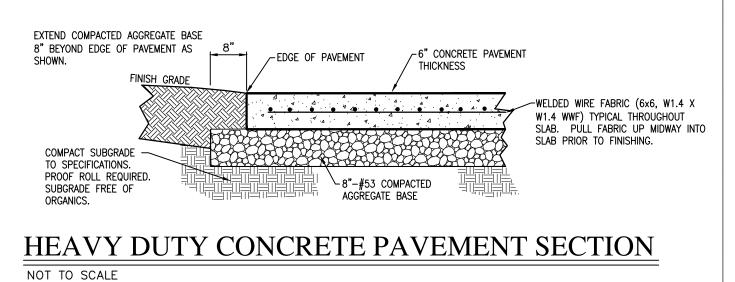


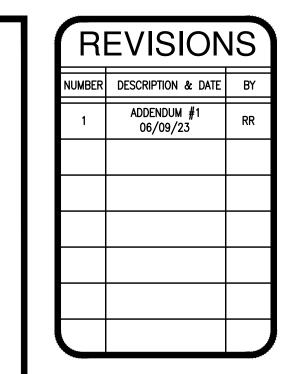














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NTRAL ELEMENTARY SCHOOL PARKING GREENCASTLE, IN CONSTRICTION DETAILS

