

Walmart SUPERCENTER NO. 3374-00

Proposed Improvements
for

C-182-SGL-QL

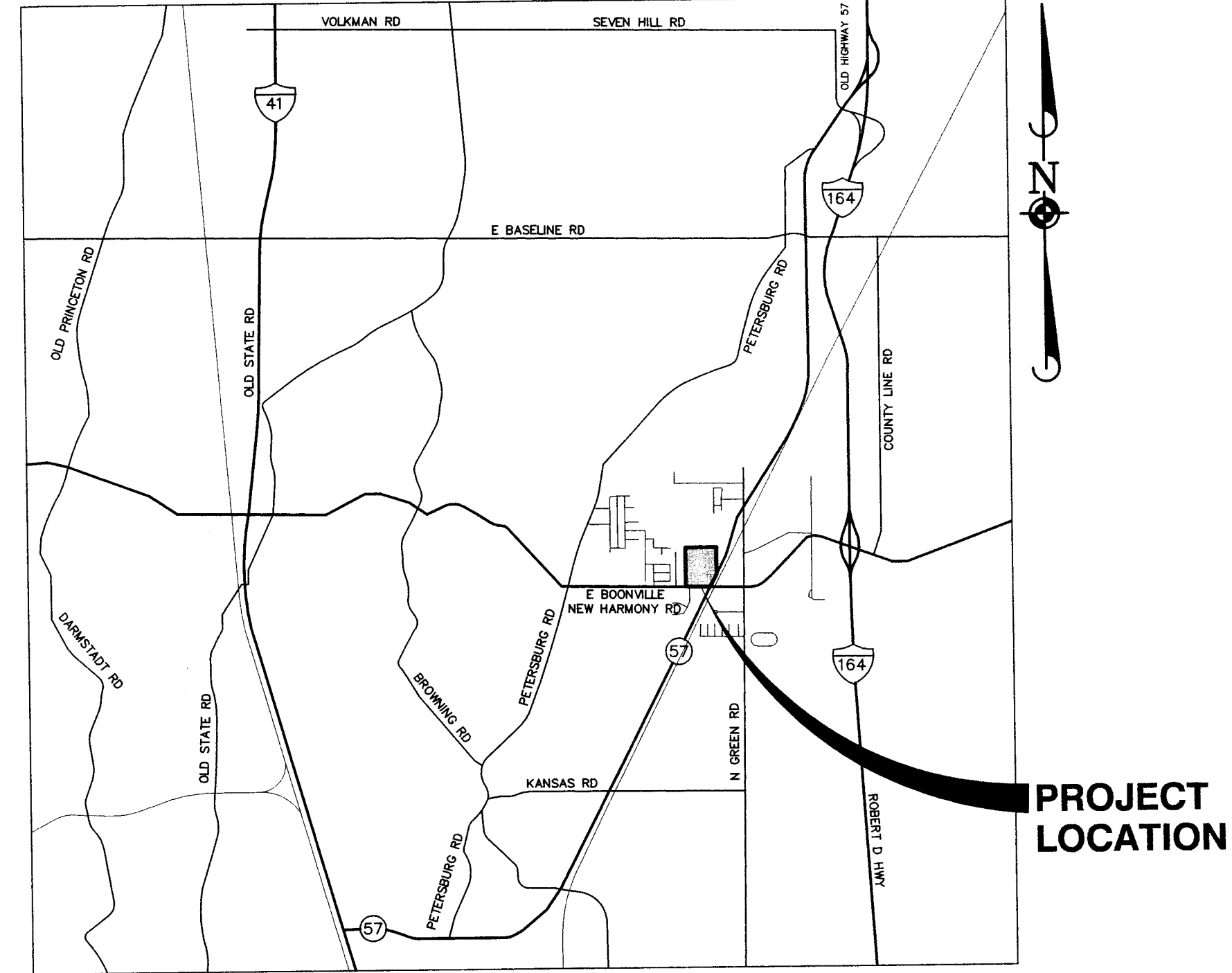
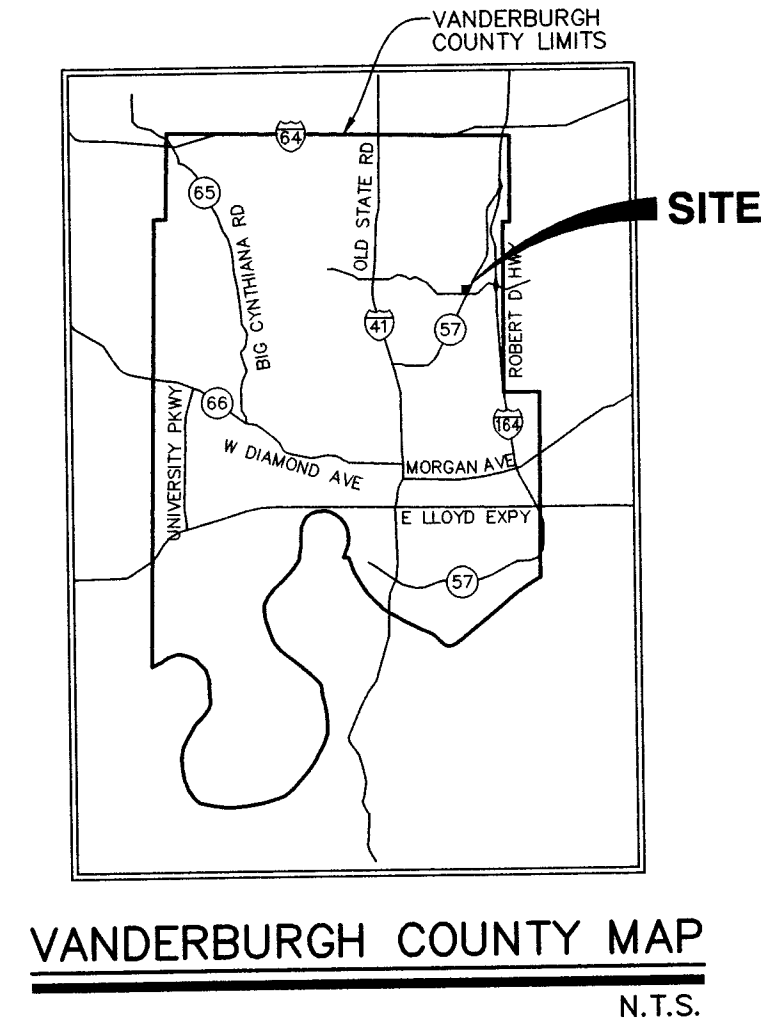
Located At State Route 57 and E. Boonville/New Harmony Road

City of Evansville,
Vanderburgh County, Indiana

INDEX OF SHEETS

STANDARD SYMBOLS

EXISTING	PROPOSED



- NOTES:
1. THE SITEWORK FOR THE WAL-MART PORTION OF THIS PROJECT SHALL MEET OR EXCEED THE "SITE" SPECIFIC SPECIFICATIONS.
 2. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO CONTRACT COMPLETION AND THE FINAL CONNECTION OF SERVICES.
 3. ALL ROADWAY AND PARKING LOT IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
 4. ALL UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. IN THE EVENT OF CONFLICTING GUIDELINES, THE MORE RESTRICTIVE SHALL GOVERN.
 5. ALL ELEVATIONS ARE RELATIVE TO NGVD29 DATUM.
 6. 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. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO COMMENCING WORK AND WILL BE RESPONSIBLE FOR ANY DAMAGE THERETO. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING "PLAN" ELEVATIONS AND EXISTING "SITE" ELEVATIONS PRIOR TO COMMENCING OF WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
 7. THE TOPOGRAPHY SURVEY FOR THIS PROJECT IS BASED ON A FIELD SURVEY PREPARED BY MANHARD CONSULTING, LTD. AND WAS PERFORMED ON FEBRUARY 18, 2014. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING, LTD. AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

UTILITY/ GOVERNING AGENCIES CONTACTS	CONTRACTOR RESPONSIBILITY--	OTHERS RESPONSIBILITY--
GAS: VECTREN GAS PO BOX 209 EVANSVILLE, IN 47702 PHONE: 812-491-5010 CONTACT: BRAD VANBIBBER	- COORDINATE CONSTRUCTION ACTIVITIES WITH GAS COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT - INSTALL BOLLARD PROTECTION AS SHOWN ON THE PLANS AND PER THE GAS COMPANY REQUIREMENTS	GAS COMPANY RESPONSIBILITY - SERVICE FROM THE POINT OF CONNECTION AT THE EXISTING LINE UP TO AND INCLUDING SETTING OF METER WILL BE BY THE GAS COMPANY - ANY RELOCATION OF EXISTING WILL BE DONE BY CITY OF ANYTOWN PUBLIC WORKS.
TELEPHONE: AT&T 134 NW 6TH ST EVANSVILLE, IN 47708 PHONE: 812-464-6054 CONTACT: JAMES DANHAUER	- COORDINATE CONSTRUCTION ACTIVITIES WITH TELEPHONE COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT - PROVIDE AND INSTALL 2"-4" SCHEDULE 40 PVC CONDUITS WITH PULL ROPES, INCLUDING ALL TRENCHING AND BACKFILLING, FROM THE RISER POLE UP TO THE BUILDING - PROVIDE AND INSTALL PULL BOXES AS PER TELEPHONE COMPANY REQUIREMENTS	TELEPHONE COMPANY RESPONSIBILITY - TELEPHONE COMPANY WILL PROVIDE AND INSTALL ALL TELEPHONE CABLES FROM THE POINT OF CONNECTION UP TO THE BUILDING - ANY RELOCATION OF EXISTING WILL BE DONE BY BELLSOUTH.
ELECTRIC: VECTREN GAS PO BOX 209 EVANSVILLE, IN 47702 PHONE: 812-491-5010 CONTACT: BRAD VANBIBBER	- COORDINATE CONSTRUCTION ACTIVITIES WITH ELECTRIC COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT - PROVIDE AND INSTALL 2"-4" SCHEDULE 40 PVC CONDUITS WITH PULL ROPES, INCLUDING TRENCHING AND BACKFILLING, FROM THE RISER POLE UP TO THE TRANSFORMER. SCHEDULE 80 PVC CONDUITS SHALL BE USED ON THE RISER POLE AND RIGID METAL, LONG RADIUS, ELBOWS SHALL BE USED WHERE THE UNDERGROUND PORTION MEETS THE RISER POLE AND TRANSFORMER - CONSTRUCT TRANSFORMER PAD AS PER THE ELECTRIC COMPANY'S SPECIFICATIONS - PROVIDE AND INSTALL ALL SECONDARY SERVICE AND MATERIALS	ELECTRIC COMPANY RESPONSIBILITY - ELECTRIC COMPANY WILL PROVIDE AND INSTALL ALL MATERIALS NEEDED TO ESTABLISH PRIMARY OVERHEAD SERVICE FROM POINT OF CONNECTION AT THE EXISTING LINE UP TO THE TRANSFORMER - ELECTRIC COMPANY WILL PROVIDE AND INSTALL PRIMARY CABLE FOR ALL UNDERGROUND LINES UP TO THE TRANSFORMER - ANY RELOCATION OF EXISTING LINES OR POLES WILL BE DONE BY ELECTRIC COMPANY.
SANITARY SEWER: EVANSVILLE WATER & SEWER UTILITY 1931 ALLENS LN EVANSVILLE, IN 47720 PHONE: 812-421-2120 EXT. 2217 CONTACT: DOUG OHNING	- PROVIDE AND INSTALL SANITARY SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION - ALL PUBLIC AND PRIVATE SANITARY SEWER LINES SHALL BE PVC AND RATED 50# 20" - COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND EVANSVILLE WATER AND SEWER UTILITY (EWSU). SEE UTILITY PLAN FOR REQUIREMENTS.	WATER AGENCY RESPONSIBILITY - DOMESTIC TAP FROM THE POINT OF CONNECTION AT THE EXISTING LINE UP TO AND INCLUDING SETTING OF METER AT THE PROPERTY LINE WILL BE BY THE WATER COMPANY -PRESENT RESPONSIBLE PARTIES - ANY RELOCATION OF EXISTING WILL BE DONE BY CITY OF ANYTOWN PUBLIC WORKS. -PRESENT RESPONSIBLE PARTIES
WATERS: EVANSVILLE WATER & SEWER UTILITY 1931 ALLENS LN EVANSVILLE, IN 47720 PHONE: 812-421-2120 EXT. 2217 CONTACT: DOUG OHNING	- PROVIDE AND INSTALL ALL WATER MAINS AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION - ALL PORTIONS OF THE FIRE PROTECTION WATER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR - ALL PORTIONS OF OTHER NON FIRE PROTECTION RELATED LINES MAY BE INSTALLED BY THE PLUMBING CONTRACTOR - COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND EVANSVILLE WATER AND SEWER UTILITY (EWSU). SEE UTILITY PLAN FOR REQUIREMENTS.	
STORM SEWER: COUNTY SURVEYOR (ROOM 325) 1 NW MARTIN LUTHER KING JR BLVD EVANSVILLE, INDIANA 47708 PHONE: 812-435-5117 CONTACT: JEFF MUELLER	- PROVIDE AND INSTALL ALL STORM SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION - REFER TO GRADING PLAN FOR INFORMATION ON ALLOWABLE STORM SEWER MATERIALS	

PERMIT CONTACTS
VANDERBURGH COUNTY
1 NW MARTIN LUTHER KING JR BLVD
EVANSVILLE, INDIANA 47708
PHONE: 812-435-5117
CONTACT: JEFF MUELLER

RECEIVED BY THE
VANDERBURGH COUNTY
SURVEYOR'S OFFICE
6/18/2015



Know what's below.
Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

SEE "STATE ROUTE 57 IMPROVEMENTS" AND "E. BOONVILLE/NEW HARMONY ROAD IMPROVEMENTS" (WAL-MART NO. 3374-00)" FOR OFF-SITE HIGHWAY IMPROVEMENTS PREPARED BY MANHARD CONSULTING, LTD

MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

OWNER/DEVELOPER
WAL-MART ENTITY
2001 S.E. 10TH STREET
BENTONVILLE, ARKANSAS 72716
479-273-4000



Manhard CONSULTING LTD

900 Woodlands Parkway, Vernon Hills, IL 60061 | tel: (847) 634-9550 fax: (847) 634-0095 | www.manhard.com
Civil Engineers - Surveyors - Water Resources Engineers - Water & Wastewater Engineers
Construction Managers - Environmental Scientists - Landscape Architects - Planners

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PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
TITLE SHEET

DATE: 11-20-14
SCALE: N.T.S.
SHEET 1 OF 37
WALEV14 120866

GENERAL NOTES

- A. **PROJECT OFFICE WALL SWPPP POSTINGS:**
THE FOLLOWING ITEMS MUST BE POSTED TOGETHER IN A SINGLE, ORGANIZED LOCATION ON A WALL INSIDE THE PROJECT OFFICE: 1) SWPPP SITE MAPS (ALL PHASES); 2) SWPPP DETAIL SHEETS; 3) MAP SHOWING LOCATION OF OFFSITE IMPORT OR EXPORT FACILITY; 4) REVISIONS TO DETAILS, SITE MAPS, OR SWPPP-RELATED RFIS; 5) SITE SWPPP BINDER; 6) SWCT PLACARD; 7) CURRENT OWNER STORMWATER COMPLIANCE TRAINING CERTIFICATES FOR SUPERINTENDENT(S) AND COMPLIANCE OFFICER(S); AND 8) CERTIFICATIONS AND/OR TRAINING CERTIFICATES REQUIRED TO PERFORM INSPECTIONS BY THE APPLICABLE CONSTRUCTION GENERAL PERMIT OR AUTHORITY HAVING JURISDICTION.
- B. **PERMITTED PROJECT AREA:**
FOR PURPOSES OF THIS SWPPP AND ASSOCIATED STORMWATER PERMIT, 'PERMITTED PROJECT AREA' IS DEFINED AS ANY AND ALL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE, AS SHOWN ON THE SWPPP SITE MAPS AND IDENTIFIED IN THE NOTICE OF INTENT TO THE AGENCY. ALL GROUND-DISTURBING AND CONSTRUCTION-RELATED ACTIVITIES (MATERIAL STORAGE, DUMPSTERS, PARKING AREAS, PROJECT OFFICE TRAILER, ETC.) MUST BE INCLUDED WITHIN THE PERMITTED PROJECT AREA LIMITS OF DISTURBANCE.
OFFSITE AREA(S) TO BE DISTURBED AS PART OF THIS PROJECT (NOT ON OWNER PROPERTY):
 - APPROXIMATELY 850' NORTH AND 650' SOUTH OF THE MAIN DRIVEWAY ENTRANCE ALONG STATE ROUTE 57 IS TO BE WIDENED FOR A SOUTHBOUND RIGHT TURN LANE AND A NORTHBOUND DEDICATED LEFT-TURN LANE.
 - APPROXIMATELY 1400' WEST OF THE STATE ROUTE 57 AND E. BOONVILLE/NEW HARMONY ROAD INTERSECTION, E. BOONVILLE/NEW HARMONY ROAD IS TO BE WIDENED FOR AN EASTBOUND LEFT TURN LANE AND A WESTBOUND RIGHT TURN LANE AT THE WAL-MART ACCESS. IN ADDITION, PAVEMENT MARKINGS FOR A LENGTH OF APPROXIMATELY 700' ON THE EAST LEG OF THE INTERSECTION ON BOONVILLE/NEW HARMONY ROAD WILL BE MODIFIED TO ACCOMMODATE FOR AN OPPOSING LEFT TURN ON THIS APPROACH.
 - APPROXIMATELY 285' OF STORM SEWER IS BEING INSTALLED ALONG THE NORTH SIDE OF E. BOONVILLE/NEW HARMONY ROAD IMPROVEMENTS, DUE TO WIDENING OF THE ROAD.
 - APPROXIMATELY 1,215' OF STORM SEWER IS BEING INSTALLED ALONG THE SOUTH SIDE OF E. BOONVILLE/NEW HARMONY ROAD IMPROVEMENTS, DUE TO WIDENING OF THE ROAD.
 - PROPOSED UTILITY CONNECTIONS.
- C. **SPECIAL PROJECT AREAS:**
THERE ARE NO SPECIAL PROJECTS, LOCATED BEYOND THE OWNER PERMITTED PROJECT AREA, REQUIRING INSPECTION AND MAINTENANCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT.
- D.1 **NON-STORMWATER DISCHARGES:**
THE GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES PROHIBITS MOST NON-STORMWATER DISCHARGES DURING THE CONSTRUCTION PHASE. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR DURING CONSTRUCTION ON THIS PROJECT, ARE INCLUDED IN THE SECTION 1.3 OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) NPDES GENERAL PERMIT.
 - BEST MANAGEMENT PRACTICES (BMP'S) MUST BE IMPLEMENTED FOR THE GENERAL PERMIT ALLOWABLE DISCHARGES FOR THE DURATION OF THE PERMIT. THE TECHNIQUES DESCRIBED IN THIS SWPPP FOCUS ON PROVIDING CONTROL OF POLLUTANT DISCHARGES WITH PRACTICAL APPROACHES THAT UTILIZE READILY AVAILABLE EXPERTISE, MATERIAL, AND EQUIPMENT.
 - NON-STORMWATER COMPONENTS OF SITE DISCHARGES MUST BE UNCONTAMINATED NON-TURBID WATER. ALL NON-STORMWATER DISCHARGES MUST BE ROUTED TO A STORMWATER CONTROL PRIOR TO DISCHARGE. WATER USED FOR CONSTRUCTION WHICH DISCHARGES FROM THE SITE MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE STATE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE; IT CAN BE RETAINED IN RETENTION PONDS UNTIL IT INFILTRATES OR EVAPORATES. WHEN NON-STORMWATER IS DISCHARGED FROM THE SITE, IT MUST BE DONE IN A MANNER SUCH THAT IT DOES NOT CAUSE EROSION OF THE SOIL DURING DISCHARGE.
- D.2 **POWER WASHING:**
PROCESS WATER SUCH AS POWER WASHING WATER AND CONCRETE CUTTING EFFLUENT, AMONG OTHERS, MUST BE COLLECTED FOR TREATMENT AND DISPOSAL. IT MUST NOT BE FLUSHED INTO THE SITE STORM DRAIN SYSTEM OR DISCHARGED OFF-SITE.
- D. **DISCHARGE POINTS:**
ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION AND SEDIMENTATION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING DISCHARGE OF SEDIMENT FROM THE SITE AND/OR IMPACTS TO RECEIVING WATERS. SEDIMENT ACCUMULATION DOWNGRADIENT OF DISCHARGE LOCATIONS SHALL BE REPORTED AS A SEDIMENT DISCHARGE (SEE APPENDIX E - TAB 14, SEDIMENT RELEASES, OF THE 02370 SPECIFICATION) AND THE POTENTIAL UPSTREAM CAUSE SHALL BE INVESTIGATED TO PREVENT FUTURE OCCURRENCE. CONTACT THE CM, CEC AND SWCT TO DETERMINE APPROPRIATE ACTION FOR CLEANUP OF DISCHARGED SEDIMENT THAT MAY BE OUTSIDE OF THE LIMITS OF DISTURBANCE. SEE SAMPLING AND MONITORING OF EFFLUENT PLAN (IF APPLICABLE).

EROSION AND SEDIMENT CONTROL NOTES

- A. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- B. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- C. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- D. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH SWPPP IMPLEMENTATION SEQUENCE, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- E. ALL DENUDED/BARE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE, MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS. COMPLETION MUST BE ACHIEVED WITHIN 7 DAYS.
- F. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY, AND COMPLETED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- G. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. TEMPORARY AND/OR PERMANENT STABILIZATION SHALL BE APPLIED PER REQUIREMENTS IN THESE E&S CONTROL NOTES.
- H. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE OFF-SITE.
- I. ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE SITE PLANS.
- J. STORM WATER POLLUTANT CONTROL MEASURES INSTALLED DURING CONSTRUCTION, THAT WILL ALSO PROVIDE STORM WATER MANAGEMENT AFTER CONSTRUCTION, ARE INCLUDED IN THE CONTRACT DOCUMENTS. THE SITE-SPECIFIC POST CONSTRUCTION STORM WATER OPERATION AND MAINTENANCE (O&M) MANUAL IS INCLUDED IN THE CONTRACT DOCUMENTS.
- K. ALL PERMANENT CONTROLS AND SYSTEMS MUST BE INSTALLED AND FUNCTIONING AS DESIGNED AND FREE OF ACCUMULATED SEDIMENT AND DEBRIS DURING FINAL PROJECT INSPECTION AND APPROVAL.

HAZARDOUS MATERIAL MANAGEMENT & SPILL REPORTING

ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION SITE SHALL BE HANDLED PROPERLY TO REDUCE THE POTENTIAL FOR STORMWATER POLLUTION. ALL MATERIALS USED ON THIS CONSTRUCTION SITE SHALL BE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE LABEL DIRECTIONS. FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE STORED AND HANDLED ACCORDING TO APPLICABLE REGULATIONS, AND, AT A MINIMUM, ACCORDING TO 29 CFR 1926.152. ONLY APPROVED CONTAINERS AND PORTABLE TANKS SHALL BE USED FOR STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION SHALL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS. HOWEVER, MSDS MAY ALSO BE ACCESSED VIA TELEPHONE OR OTHER ELECTRONIC MEANS OR APPARATUS.

IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION SHALL BE TAKEN BY THE GC TO CONTAIN AND REMOVE THE SPILLED MATERIAL. THE SPILL SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES, AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES SHALL BE PROPERLY REPORTED.

ALL HAZARDOUS MATERIALS, INCLUDING CONTAMINATED SOIL AND LIQUID CONCRETE WASTE, SHALL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.

THE GC SHALL PREPARE A WRITTEN RECORD OF ANY SPILL AND ASSOCIATED CLEAN-UP ACTIVITIES OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 1 GALLON OR REPORTABLE QUANTITIES, WHICHEVER IS LESS, ON THE DAY OF THE SPILL. THE GC SHALL PROVIDE NOTICE TO OWNER, VIA THE ONLINE CRITICAL INCIDENT REPORT, IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL. SPILL REPORT FORMS ARE AVAILABLE IN THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER. COPIES OF SPILL CRITICAL INCIDENT REPORTS SHALL BE PRINTED AND MAINTAINED IN THE JOBSITE BINDER.

ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) AND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (1-888-233-7745).

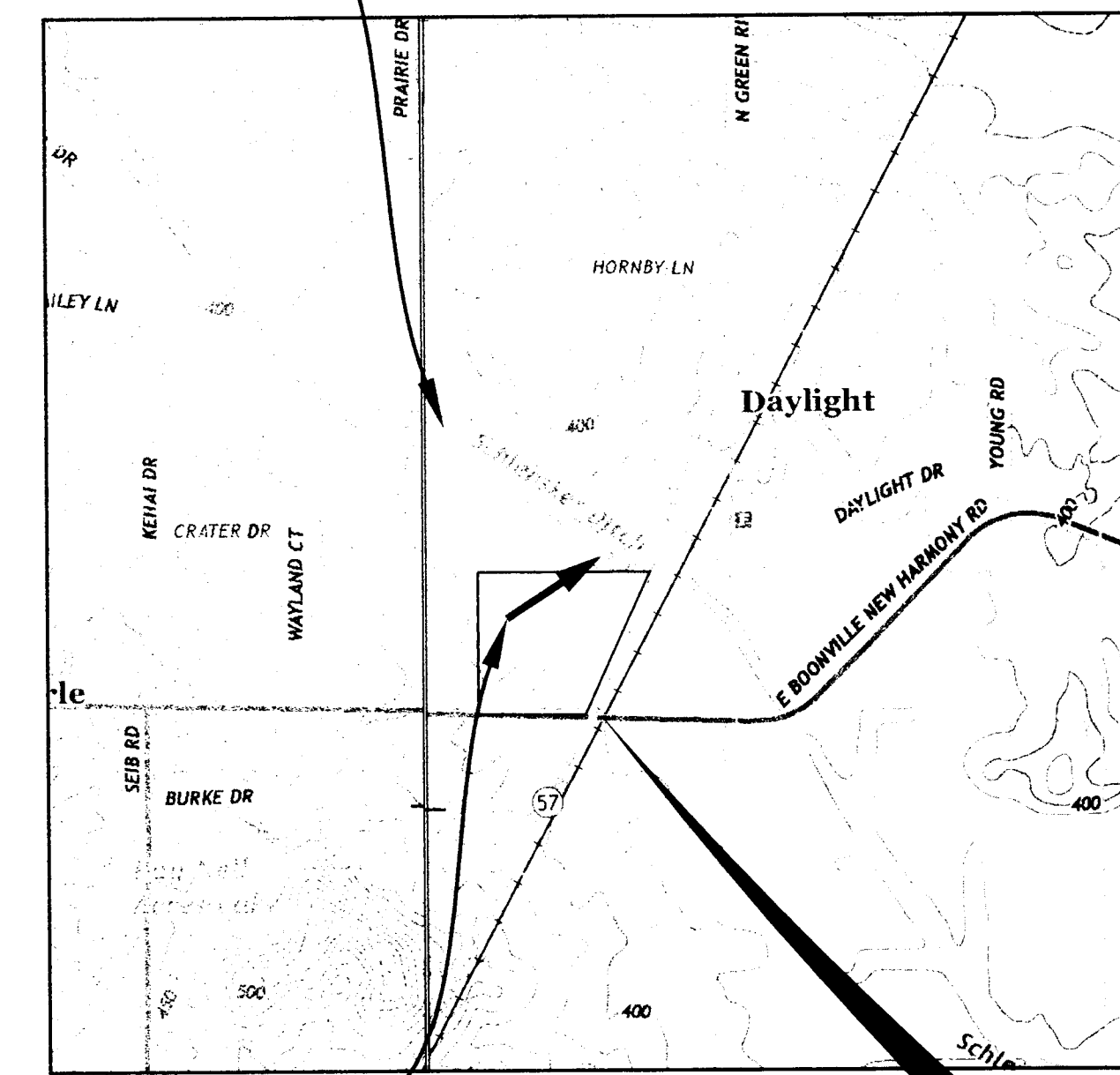
THE STATE REPORTABLE QUANTITY FOR PETROLEUM PRODUCTS IS: 42 GALLONS ANY SPILL THAT EXCEED 55 GALLONS PER 327 IAC 2-6.1-5.

THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIALS CAN BE FOUND IN 40 CFR 302 AND <http://epaoscer.gov/>

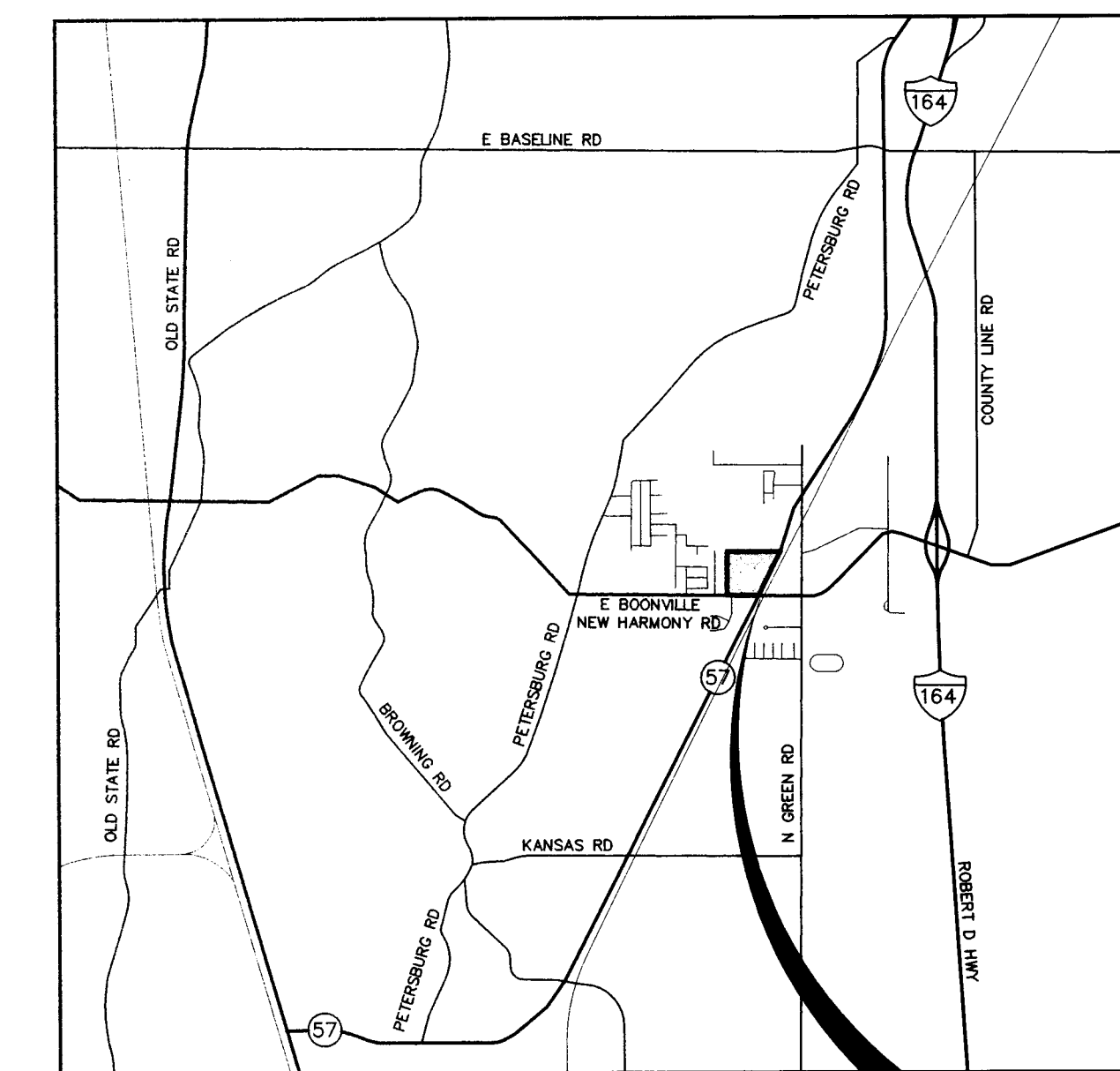
TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORMWATER, THE FOLLOWING STEPS SHALL BE IMPLEMENTED:

- 1) ALL MATERIALS WITH HAZARDOUS PROPERTIES, SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, SOAPS, DETERGENTS, CONSTRUCTION CHEMICALS, ACIDS, BASES, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE, CURING COMPOUNDS AND ADDITIVES, ETC., SHALL BE STORED IN A SECURE LOCATION, UNDER COVER AND IN APPROPRIATE, TIGHTLY SEALED CONTAINERS WHEN NOT IN USE.
- 2) THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.
- 3) A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND ITS LOCATION(S) SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGE AND SHOWN ON SITE MAPS.
 - a. THE SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.
 - b. CONTENTS SHALL BE INSPECTED DAILY DURING THE DAILY STORMWATER INSPECTION.
- 4) ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE.
- 5) ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL.
- 6) THE DISPOSAL OF EXCESS OR USED PRODUCTS SHALL BE IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND REGULATIONS.

0.0 MILES TO SCHLENSKER DITCH



USGS MAP N.T.S. PROJECT LOCATION
DAYLIGHT QUADRANGLE VANDERBURGH COUNTY, INDIANA



SITE LOCATION MAP N.T.S. PROJECT LOCATION

DEVELOPER/OWNER:
WAL-MART REAL ESTATE BUSINESS TRUST
MAIL STOP 5570
2001 SE 10TH STREET
BENTONVILLE, AR 72716-5570
479-204-1195

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

IMPORTANT:
GC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

SWPPP NOTES

DATE	REVISIONS

Manhard CONSULTING LTD

800 Woodland Parkway, Vernon Hills, IL 60061
 847.434.9550
 1001 Woodland Parkway, Suite 200, Bentonville, AR 72716
 479.204.1195

Professional Engineers • Surveyors • Water Resources Engineers • Water & Wastewater Engineers
 Civil Engineers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
SWPPP NOTES

PROJ MGR:	TTR
PROJ ASSOC:	BAM
DRAWN BY:	MH
DATE:	11-20-14
SCALE:	N.T.S.
SHEET	
2 of 37	
WALEV14 120866	

June 17, 2015 - 08:49 Draw Name: p:\walev\env\enr\linal\drawings\plan\swppp\3374-00-swppp.dwg Updated By: amonneson

RULE 5 TABLE

ITEM	ITEM REQUIREMENT	ITEM DISPOSITION
A1	PLAN INDEX	THIS TABLE WILL SERVE AS THE PLAN INDEX FOR THE ITEM RULE 5
A2	11" X 17" PLAT	SEE SHEET 10
A3	NARRATIVE DESCRIBING PROJECT	THE EXISTING SITE CONSISTS OF A PREVIOUSLY USED FARM FIELD AS WELL AS AN EXISTING CELL TOWER WITH AN ASSOCIATED BUILDING, PARKING, AND DRIVE AISLE. THE PROJECT SITE IS ±30.81 ACRES WITH APPROXIMATELY ±26.25 ACRES TO BE DEVELOPED WITH A PROPOSED WAL-MART SUPERCENTER, ASSOCIATED PARKING, STORMWATER DETENTION AND LANDSCAPING. ±4.56 ACRES ARE PROPOSED TO BE USED AS FOUR OUTLOTS.
A4	VICINITY MAP WITH PROJECT LOCATION	SEE SHEET 1
A5	LEGAL DESCRIPTION OF PROJECT SITE	PART OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF SECTION 14, TOWNSHIP 5 SOUTH, RANGE 10 WEST, IN VANDERBURGH COUNTY, INDIANA MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SOUTH HALF OF THE NORTHEAST QUARTER OF SECTION 14; THENCE SOUTH 88 DEGREES 24 MINUTES 10 SECONDS EAST 587.60 FEET (BEARINGS BASED ON INDIANA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 1983) ALONG THE NORTH LINE OF SAID SOUTH HALF OF THE NORTHEAST QUARTER TO THE NORTHEAST CORNER OF THE PROPERTY DESCRIBED IN WARRANTY DEED RECORDED MAY 22, 1989 AS INSTRUMENT NO. 1989R0009076 IN THE OFFICE OF THE RECORDER OF VANDERBURGH COUNTY, INDIANA, SAID CORNER ALSO BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 88 DEGREES 24 MINUTES 10 SECONDS EAST, 1285.00 FEET TO THE WEST RIGHT-OF-WAY LINE OF STATE ROUTE 57 AS GRANTED IN DEED RECORD 220, PAGE 281 IN THE OFFICE OF THE RECORDER OF VANDERBURGH COUNTY, INDIANA; THENCE 1231.85 FEET SOUTHWESTERLY ALONG SAID WEST RIGHT-OF-WAY LINE AND THE WEST LINE OF THE PROPERTY CONVEYED TO THE STATE OF INDIANA IN WARRANTY DEED RECORDED AUGUST 10, 2004 AS INSTRUMENT NO. 2004R00027976 IN THE OFFICE OF THE RECORDER OF VANDERBURGH COUNTY, INDIANA, BEING A CURVE CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 7574.44 FEET, SUBTENDING A CHORD BEARING SOUTH 23 DEGREES 04 MINUTES 37 SECONDS WEST, 1230.49 FEET TO A NON-TANGENT LINE; THENCE SOUTH 27 DEGREES 43 MINUTES 17 SECONDS WEST, 46.22 FEET ALONG LAST SAID WEST LINE; THENCE SOUTH 45 DEGREES 39 MINUTES 32 SECONDS WEST, 92.39 FEET ALONG LAST SAID WEST LINE; THENCE SOUTH 83 DEGREES 56 MINUTES 37 SECONDS WEST, 99.30 FEET ALONG LAST SAID WEST LINE; THENCE SOUTH 65 DEGREES 20 MINUTES 27 SECONDS WEST, 54.06 FEET ALONG LAST SAID WEST LINE TO A LINE 25 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID NORTHEAST QUARTER; THENCE NORTH 88 DEGREES 24 MINUTES 10 SECONDS WEST, 599.36 FEET ALONG THE SAID PARALLEL LINE TO THE EAST LINE OF THE PROPERTY DESCRIBED IN WARRANTY DEED RECORDED AUGUST 6, 1991 AS INSTRUMENT NO. 1991R00018072 IN THE OFFICE OF THE RECORDER OF VANDERBURGH COUNTY, INDIANA; THENCE NORTH 01 DEGREES 26 MINUTES 21 SECONDS EAST 1290.13 FEET ALONG LAST SAID EAST LINE AND THE EAST LINE OF THE PROPERTY DESCRIBED IN WARRANTY DEED RECORDED SEPTEMBER 10, 2009 AS INSTRUMENT NO. 2009R00024363 IN THE OFFICE OF THE RECORDER OF VANDERBURGH COUNTY, INDIANA, PROPERTY DESCRIBED IN WARRANTY DEED RECORDED AS INSTRUMENT NO. 1989R0009076 TO THE POINT OF BEGINNING.
A6	LOCATION OF ALL LOTS AND SITE IMPROVEMENTS	SEE SHEETS 12-27
A7	14 DIGIT HYDROLOGIC UNIT CODE	05140202040050
A8	NOTATION OF STATE OR FED WQ PERMITS	NONE REQUIRED
A9	STORMWATER DISCHARGE POINTS	SEE SHEET 19. ALL STORMS UP TO AND INCLUDING THE 100 YEAR EVENT ARE TO BE DETAINED WITHIN THE PROPOSED ON-SITE STORMWATER DETENTION POND AND RELEASED AT A CONTROLLED RATE THROUGH A RESTRICTOR STRUCTURE AND DIRECTED TOWARDS SCHLENSKER DITCH. A PROPOSED EMERGENCY OVERFLOW WEIRD IS PROPOSED TO DIRECT ANY EMERGENCY OVERFLOW TOWARDS SCHLENSKER DITCH.
A10	NAME AND LOCATION OF WATER COURSES	SEE SHEET 2. THE NEAREST WATER COURSE TO THE SITE IS SCHLENSKER DITCH, AND IS LOCATED AT THE NORTHERN PORTION OF THE SITE.
A11	IDENTIFY ALL RECEIVING WATERS	SEE SHEET 2. THE NEAREST RECEIVING WATER FOR THE SITE IS SCHLENSKER DITCH LOCATED 0.00 MILES TO THE NORTH OF THE SITE.
A12	IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUND WATER	THE PROPOSED STORMWATER DETENTION POND IS A POTENTIAL DISCHARGE TO GROUNDWATER
A13	100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOOD FRINGES	SEE SHEET 4 & 5. THE SITE IS LOCATED WITHIN A ZONE AE DESIGNATION WITH A BASE FLOOD ELEVATION OF 394.0 ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM) PANEL MAP NUMBER 18163C0128D WITH AN EFFECTIVE DATE OF MARCH 17, 2011.
A14	PRE-CONSTRUCTION AND POST CONSTRUCTION EST OF PEAK DISCHARGE	SEE STORM WATER MANAGEMENT REPORT. PRE-CONSTRUCTION PEAK DISCHARGE (10-YEAR) = 13.62 CFS AND POST CONSTRUCTION PEAK DISCHARGE (25-YEAR) = 10.05 CFS, PEAK DISCHARGE (100-YEAR) = 11.36 CFS.
A15	ADJACENT LAND USE, INCLUDING UPSTREAM WATERSHED	ADJACENT LAND NORTH OF THE SITE CONTAINS CROP FIELDS. ADJACENT LAND EAST OF THE SITE CONTAINS CROP FIELDS. ADJACENT LAND WEST OF THE SITE CONTAINS CROP FIELDS AND RESIDENTIAL USE. ADJACENT LAND SOUTH OF THE SITE IS RESIDENTIAL. ADJACENT LAND SOUTHEAST OF THE SITE IS GENERAL INDUSTRIAL USE.
A16	LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	SEE SHEET 4, 5, & 19 FOR BOUNDARIES OF ALL DISTURBED LANDS.
A17	IDENTIFICATION OF EX VEGETATION COVER	SEE SHEET 12 FOR EXISTING VEGETATION COVER.
A18	SOILS MAP INCLUDING DESCRIPTIONS AND LIMITATIONS	SEE SHEET 4 & 6 OF THE PLAN SET AND THE GEOTECHNICAL REPORT DATED JUNE 16TH, 2014. SOILS PRESENT INCLUDE LOWER STRENGTH LEAN CLAY SOILS AND SILTY CLAY SOILS WITH RELATIVELY HIGH MOISTURE CONTENTS BELOW TOPSOIL. IN SOME INSTANCES, SANDY LEAN CLAY (CL) AND CLAYEY SAND (SC) WERE FOUND BELOW THE LEAN CLAY (CL), BUT GENERALLY BORINGS TERMINATED WITH LEAN CLAY (CL). LEAN CLAY (CL) DESCRIPTION - FINE GRAINED, IMPERVIOUS CLAY OF LOW PLASTICITY LIMITATION - POORLY DRAINED, PRACTICALLY IMPERVIOUS CLAYEY SAND (SC) DESCRIPTION - COURSE GRAINED, SAND WITH >12% FINES. HIGH STRENGTH UNDER LOADS. LIMITATION - LOW PLASTICITY AND COMPRESSIBILITY.
A19	LOCATION SIZE & DIMS STORMWATER SYSTEMS	SEE SHEET 19
A20	OFF-SITE CONSTRUCTION ACTIVITIES	SEE SHEET 13
A21	LOCATION OF PROPOSED SOIL STOCKPILES	SEE SHEET 4
A22	EXISTING SITE TOPOGRAPHY	SEE SHEET 12
A23	PROPOSED FINAL TOPOGRAPHY	SEE SHEET 16
B1	DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION	SEE SHEET 2
B2	SEQUENCE DESCRIBING STORM WATER QUALITY MEASURE IMPLEMENTATION	SEE SHEETS 3-9.
B3	CONSTRUCTION ENTRANCE LOC AND SPEC	SEE SHEETS 4, 5 & 7
B4	SEDIMENT CONTROL FOR SHEET FLOW AREAS	SEE SHEETS 4, 5 & 7-8
B5	SEDIMENT CONTROL CONCENTRATED FLOW	SEE SHEETS 4, 5 & 7-8
B6	STORM SEWER INLET PROTECTION MEASURES	SEE SHEETS 4, 5, 7 & 8
B7	RUNOFF CONTROL MEASURES	SEE SHEETS 4, 5, 7 & 8
B8	STORM WATER OUTLET PROTECTION SPECS	RIP-RAP IS USED FOR ALL THE STORMWATER OUTLETS.
B9	GRADE STABILIZATION LOC AND SPECS	SEE SHEETS 4-9 FOR ALL BMPs AND ASSOCIATED DETAILS USED ON THE SITE FOR GRADE STABILIZATION.
B10	LOCATION DIM SPECS AND CONST DETAILS OF EACH STORMWATER QUALITY MEASURE	SEE SHEETS 4-9
B11	TEMP SURFACE STABILIZATION METHODS	SEE SHEETS 3-9
B12	PERMANENT SURFACE STABILIZATION SPECS	SEE SHEETS 5-9, & 13
B13	MATERIAL HANDLING AND SPILL PREVENTION	SEE SHEET 2
B14	MONITORING AND MAINTENANCE FOR EACH PROPOSED POLLUTION PREVENTION MEASURE	SEE SHEETS 2-9
B15	EROSION & SEDIMENT CONTROL SPECS FOR INDIVIDUAL BUILDING LOTS	SEE SHEETS 2-9
C1	DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH LAND USE	POTENTIAL POLLUTANT SOURCES FOR THE PROPOSED LAND USE ARE OIL, GREASE, ANTIFREEZE, BRAKE FLUID AND BRAKE DUST, RUBBER FRAGMENTS, GASOLINE, DIESEL FUEL AND OTHER HYDROCARBONS AND METALS FROM VEHICULAR AND OTHER SOURCES, TRASH (INCLUDING BACTERIA AND OTHER BIOLOGICAL AGENTS CONTAINED IN THE TRASH) FROM LITTERING AND OTHER TYPES OF IMPROPER DISPOSAL OR STORAGE.
C2	SEQUENCE FOR STORM WATER QUALITY MEASURE IMPLEMENTATION	SEE SHEETS 3-9. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION CAN BE FOUND ON THIS PLAN, TO THE RIGHT OF THIS TABLE.
C3	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORM WQ MEASURES	SEE SHEETS 3-9. THE POST CONSTRUCTION STORMWATER QUALITY MEASURE FOR THE SITE IS THE PROPOSED DETENTION POND. ALL POST CONSTRUCTION POLLUTANTS WILL REMAIN AT THE BOTTOM OF THE POND UNTIL REMOVED DURING SCHEDULED POND MAINTENANCE.
C4	LOCATION DIM SPEC AND CONST DETAILS OF EACH STORMWATER QUALITY MEASURE	SEE SHEETS 4-9.
C5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR PROPOSED POST CONSTRUCTION WQ	REFER TO OPERATION AND MAINTENANCE MANUAL, SPECIFICATION SECTION 02370, APPENDIX C, FOR THE REQUIRED MAINTENANCE GUIDELINES FOR PROPOSED POST CONSTRUCTION WATER QUALITY.

SWPPP IMPLEMENTATION SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE AREAS/CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ALL AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

NOTE: DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED. ACTIVITIES ARE PRESENT IN THE ORDER OR SEQUENCE IN WHICH THEY ARE REQUIRED TO BE COMPLETED.

- PHASE 1**
1. INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
 2. STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
 3. INSTALL INLET PROTECTION AND CULVERT INLET PROTECTION IN EXISTING STORM STRUCTURES IN THE LIMITS OF WORK.
 4. INSTALL PERIMETER SEDIMENT CONTROL BMPs IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs.
 5. INSTALL STABILIZED CONSTRUCTION EXIT(S) WITH SEDIMENT TRAPS, AND SET THE PROJECT OFFICE TRAILER.
 6. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPs, AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPs.
 7. PREPARE TEMPORARY PARKING AND STORAGE AREA. INSTALL ONSITE RAIN GAUGE.
 8. HALT ALL ACTIVITIES

CONTACT THE CEC TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. BMP CERTIFICATION MUST OCCUR BEFORE STORMWATER PRE-CONSTRUCTION MEETING. (THIS SHOULD BE SCHEDULED IN ADVANCE, IN ANTICIPATION OF THE EXPECTED DATE WHEN THE ABOVE SEQUENCE ITEMS WILL BE COMPLETED.)

ALL EXCEPTIONS NOTED ON THE BMP CERTIFICATION FORM MUST BE ADDED AS DEFICIENCIES WITHIN THE BMP CERTIFICATION FORM AND RESOLVED WITHIN 24-HOURS. BMPs MUST NOT BE CERTIFIED IF ONE OR MORE OF THE EXCEPTIONS WILL NOT BE RESOLVED WITHIN 24-HOURS OF THE BMP CERTIFICATION BY THE CEC.

IF THE CEC IS UNABLE TO CERTIFY THAT SITE CONDITIONS ARE PER PLANS AND SPECIFICATIONS, THE CERTIFICATION OF BMPs MUST BE RESCHEDULED. THE STORMWATER PRE-CONSTRUCTION MEETING MAY ONLY OCCUR AFTER BMPs CAN BE CERTIFIED.

GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE CEC, OWNER'S CONSTRUCTION MANAGER, AGENCY(IES) AND SUBCONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

DAILY STORMWATER INSPECTION REPORTS IN THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER MUST START ON THE NEXT BUSINESS DAY AFTER THE SITE BMPs & PRECONSTRUCTION MEETING CERTIFICATION IS SIGNED/CERTIFIED BY THE CEC.

9. CLEAR, GRUB, AND STRIP ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL SEDIMENT BASIN, INCLUDING STOCKPILE AREAS NECESSARY FOR SPOIL FROM THESE REQUIRED STRUCTURAL SEDIMENT CONTROL BMPs.
10. CONSTRUCT SEDIMENT BASIN WITH TEMPORARY PERFORATED RISER AND OUTLET PIPE, AS SPECIFIED ON THE SITE MAPS.
11. STABILIZE SIDE SLOPES AND ALL SIDES OF EMBANKMENTS OR SLOPES OF SEDIMENT BASIN IMMEDIATELY UPON COMPLETION, AS SPECIFIED IN THE SWPPP.
12. INSTALL HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES, DIVERSION CHANNELS, CHECK DAMS, ETC.), AS SPECIFIED ON THE SITE MAPS.
13. STABILIZE SIDE SLOPES AND FLOW LINE OF HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES AND DIVERSION CHANNELS) WITH SEED, FERTILIZER AND ROLLED EROSION CONTROL BLANKETS, AS SPECIFIED IN THE SWPPP.

- PHASE 2**
1. BEGIN CLEARING, GRUBBING, AND STRIPPING THE SITE. (PHASE CLEARING AND GRUBBING TO THE EXTENT PRACTICAL TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY POINT IN TIME)
 2. BEGIN GRADING THE SITE.
 3. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
 4. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 14 DAYS OR MORE.
 5. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
 6. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
 7. INSTALL RIP RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
 8. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
 9. PREPARE SITE FOR PAVING.
 10. PAVE SITE.
 11. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES, PER BMP DETAILS.
 12. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS, INCLUDING OUT LOTS AND PONDS. SEDIMENT ACCUMULATED WITHIN THE TEMPORARY SEDIMENT BASIN TO BE REMOVED AND DISPOSED OF ACCORDING TO STATE AND FEDERAL STANDARDS.
 13. OBTAIN CONCURRENCE FROM THE OWNER CONSTRUCTION MANAGER (CM) THAT THE SITE HAS BEEN FULLY STABILIZED AND ALL CONSTRUCTION HAS BEEN COMPLETED, THEN:
 - A. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs),
 - B. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPs, AND
 - C. ASK THE CM TO CONTACT THE CEC TO COMPLETE THE CEC PRE-NOT SITE INSPECTION AND REPORT (ONLY CM MAY DO THIS).
 14. CONTINUE DAILY INSPECTIONS AND REPORTS UNTIL THE CM FINAL DAILY INSPECTION REPORT, MARKED 'READY TO TERMINATE PERMIT', IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED VIA THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER.

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL PRECEDING BMPs AND STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE BOLDED FOR CLARITY. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE SWPPP IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS.

THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON SHEET 9.

MINIMIZATION OF DISTURBED AREAS:

1. CONTRACTOR SHALL MANAGE CONSTRUCTION ACTIVITIES TO REDUCE EROSION AND RETAIN SEDIMENT AND OTHER POLLUTANTS IN THE SOIL AT THE CONSTRUCTION SITE.
2. CONTRACTOR SHALL MINIMIZE THE TIME BARE SOIL IS EXPOSED.
3. CONTRACTOR SHALL MINIMIZE SITE DISTURBANCE BY MINIMIZING THE EXTENT OF GRADING AND CLEARING TO EFFECTIVELY REDUCE SEDIMENT YIELD.

NOTE TO GC: OWNER HAS AUTHORITY AT ANY TIME TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND TO DIRECT THE GC TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES.

DEVELOPER/OWNER:
 WAL-MART REAL ESTATE BUSINESS TRUST
 MAIL STOP 5570
 2001 SE 10TH STREET
 BENTONVILLE, AR 72716-5570
 479-204-1195

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

IMPORTANT:
 GC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

SWPPP IMPLEMENTATION SEQUENCE AND LIMITS OF WORK

DATE	
REVISIONS	

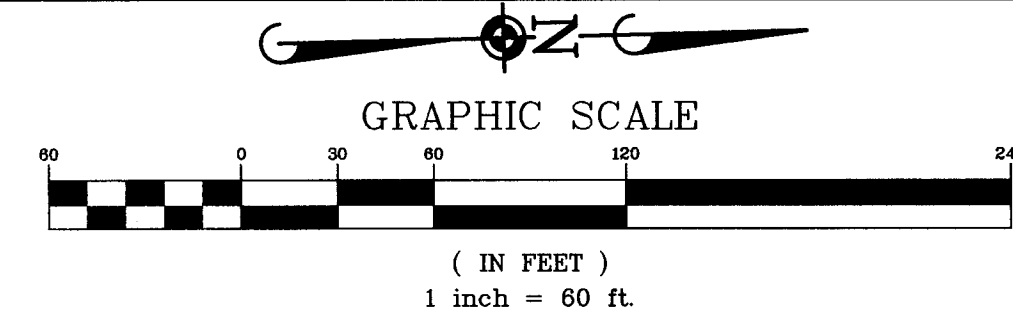
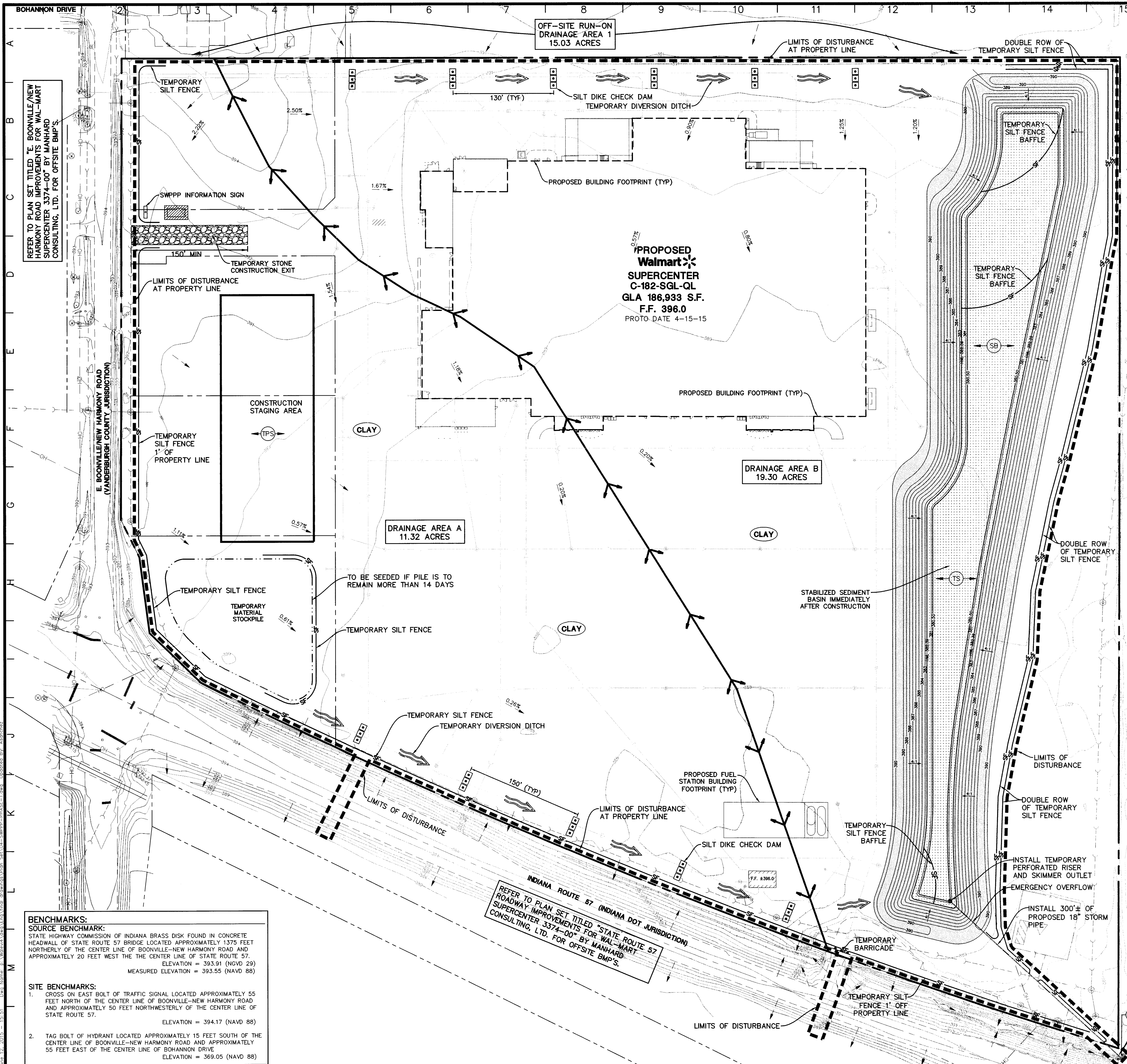
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 800 Woodlands Parkway, Vernon Hills, IL 60061 • PH: 847.858.1500
 Environmental Engineers • Water & Wastewater Engineers
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA

SWPPP IMPLEMENTATION SEQUENCE AND LIMITS OF WORK

PROJ. MGR.: TTR
 PROJ. ASSOC.: BAM
 DRAWN BY: MH
 DATE: 11-20-14
 SCALE: N.T.S.

SHEET
3 OF **37**
 WALEV14 120866



SITE FEATURES	
	BOUNDARY LINE
	RIGHT OF WAY LINE
	LIMITS OF DISTURBANCE
	EXISTING CONTOUR ELEVATIONS
	LIMITS OF DRAINAGE AREA
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	EXISTING DRAINAGE FLOW WITH GRADE
	EXISTING DRAINAGE SWALE WITH GRADE
	STAGING AREA
	TEMPORARY STOCKPILE
EROSION DETAILS	
	SWPPP INFORMATION SIGN
	TEMPORARY STONE CONSTRUCTION EXIT
	TEMPORARY SILT FENCE
	TEMPORARY PARKING AND STORAGE
	TEMPORARY SEDIMENT BASIN
	EROSION EEL
	SILT DIKE CHECK DAM
	TEMPORARY CONCRETE WASHOUT
	TEMPORARY DIVERSION CHANNEL
EROSION NOTES	
	PROVIDE BARRICADE AT ALL ENTRANCE LOCATIONS WITHOUT TEMPORARY STONE CONSTRUCTION EXIT
	CLAY SOIL TYPE
	TEMPORARY STABILIZATION WITH NORTH AMERICAN GREEN DS 75 EROSION CONTROL BLANKET AND TEMPORARY SEED
	TEMPORARY SEEDING AND MULCH



NOTE TO GENERAL CONTRACTOR:
 PRIOR TO CONSTRUCTION, GC MUST CLEARLY DELINEATE AND MARK OFF AREAS IDENTIFIED IN THE SWPPP OR IN THE FIELD, TO BE PROTECTED (SUCH AS NATURAL BUFFERS, TREES, HABITATS OF ENDANGERED/THREATENED SPECIES, HISTORIC PROPERTIES, ETC.)

SWPPP UPDATES AND AMENDMENTS
 THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G., PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.), CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.

IMPORTANT:
 THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CEC AND OBTAIN WRITTEN CEC APPROVAL BEFORE DOING ANY OF THE FOLLOWING:

1. MODIFYING EROSION OR SEDIMENT CONTROL BMP'S (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK)
2. ADDING/OLETING EROSION OR SEDIMENT CONTROL BMP'S;
3. MODIFYING THE SWPPP IMPLEMENTATION SEQUENCE; OR
4. PERFORMING ANY ACTIONS OR IN ANY MANNER THAT IS CONTRARY TO THE SWPPP.

THE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMP'S, WITHOUT CEC APPROVAL, IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY. HOWEVER, GC MUST NOTIFY THE CEC AS SOON AS PRACTICAL AS TO THEIR ACTIONS TO DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRED APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.

AMENDING THE SWPPP DOES NOT MEAN THAT IT HAS TO BE REPRINTED. IT IS ACCEPTABLE TO ADD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE CEC NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COPY OF THE ASSOCIATED RFI AND ITS RESPONSE FROM CEC. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

DEVELOPER/OWNER:
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 MAIL STOP 5570
 2001 SE 10TH STREET
 BENTONVILLE, AR 72716-5570
 479-204-1195

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

IMPORTANT:
 GC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

STORMWATER OUTFLOW
 RUN-OFF GENERATED ON-SITE IS DETAINED AND RELEASED THROUGH A PROPOSED 18" PIPE AND DISCHARGES TO SCHLENSKER DITCH

BENCHMARKS:
SOURCE BENCHMARK:
 STATE HIGHWAY COMMISSION OF INDIANA BRASS DISK FOUND IN CONCRETE HEADWALL OF STATE ROUTE 57 BRIDGE LOCATED APPROXIMATELY 1375 FEET NORTHERLY OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 20 FEET WEST THE CENTER LINE OF STATE ROUTE 57.
 ELEVATION = 393.91 (NGVD 29)
 MEASURED ELEVATION = 393.55 (NAVD 88)

SITE BENCHMARKS:
 1. CROSS ON EAST BOLT OF TRAFFIC SIGNAL LOCATED APPROXIMATELY 55 FEET NORTH OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 50 FEET NORTHWESTERLY OF THE CENTER LINE OF STATE ROUTE 57.
 ELEVATION = 394.17 (NAVD 88)

2. TAG BOLT OF HYDRANT LOCATED APPROXIMATELY 15 FEET SOUTH OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 55 FEET EAST OF THE CENTER LINE OF BOHANNON DRIVE.
 ELEVATION = 369.05 (NAVD 88)

REFER TO PLAN SET TITLED "STATE ROUTE 57 ROADWAY IMPROVEMENTS FOR WAL-MART SUPERCENTER 3374-00" BY MANHARD CONSULTING, LTD. FOR OFFSITE BMP'S.

PHASE 1 EROSION AND SEDIMENTATION CONTROL PLAN

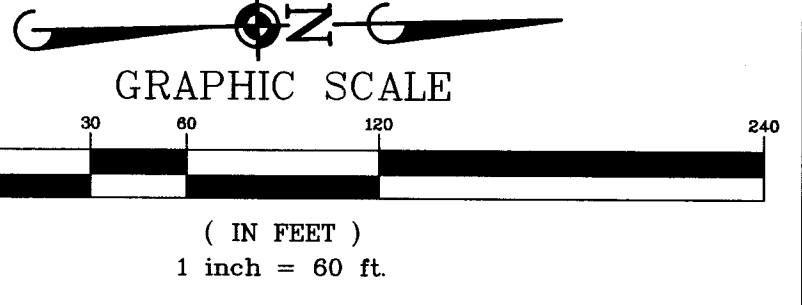
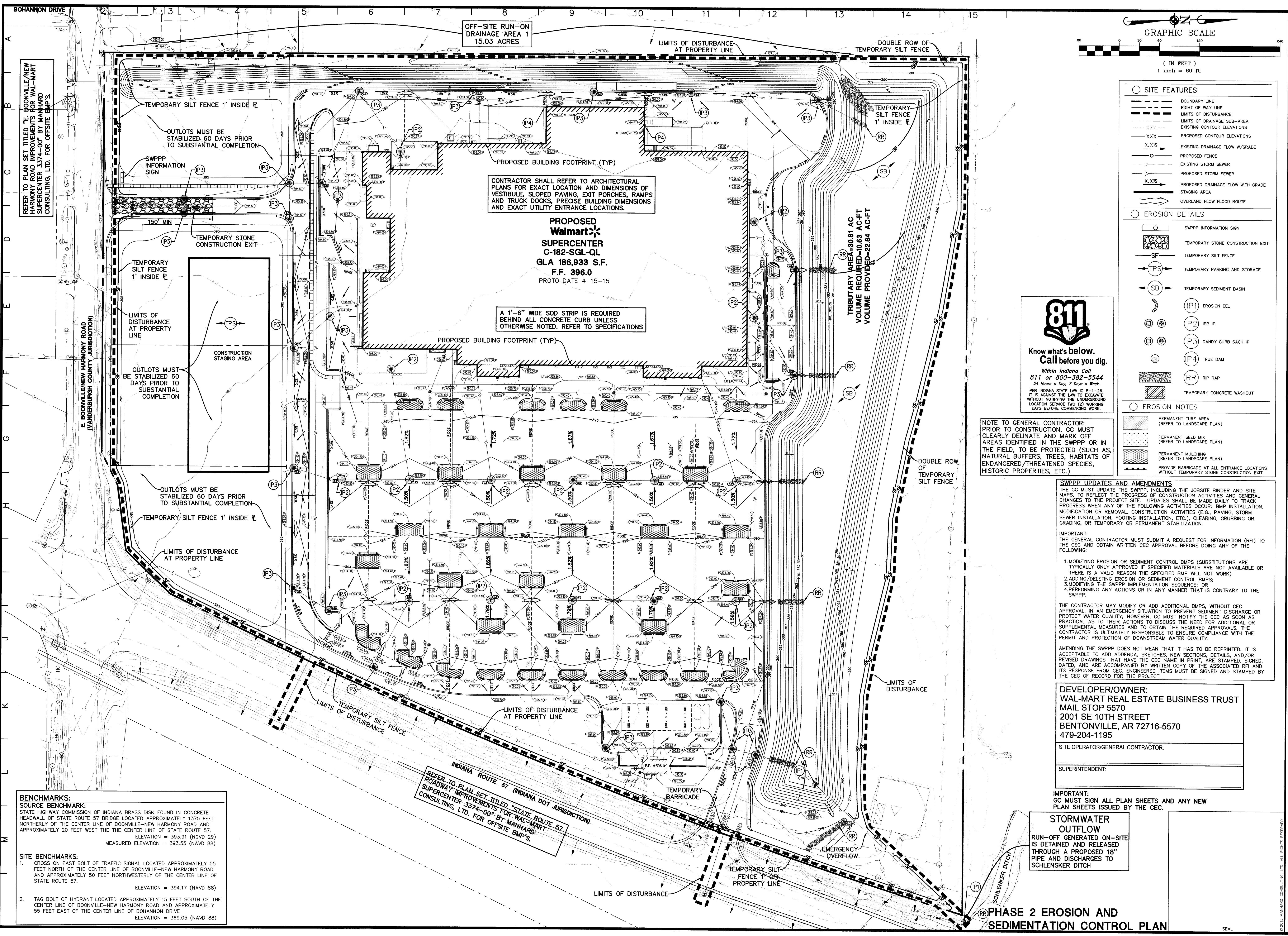
Manhard CONSULTING LTD.
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 630.272.8343 ext. 1001
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 630.272.8361 ext. 1019
 630.272.8362 ext. 1020

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA

PHASE 1 EROSION AND SEDIMENTATION CONTROL PLAN

PROJ. MGR.: TTR
 PROJ. ASSOC.: BAM
 DRAWN BY: AS
 DATE: 11-20-14
 SCALE: 1"=60'

SHEET 4 OF 37
 WALEV4 120866



SITE FEATURES	
---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	LIMITS OF DISTURBANCE
---	LIMITS OF DRAINAGE SUB-AREA
---	EXISTING CONTOUR ELEVATIONS
---	PROPOSED CONTOUR ELEVATIONS
X.X%	EXISTING DRAINAGE FLOW W/GRADE
---	PROPOSED FENCE
---	EXISTING STORM SEWER
---	PROPOSED STORM SEWER
X.X%	PROPOSED DRAINAGE FLOW WITH GRADE
---	STAGING AREA
---	OVERLAND FLOW FLOOD ROUTE
EROSION DETAILS	
IP	SWPPP INFORMATION SIGN
SF	TEMPORARY STONE CONSTRUCTION EXIT
TPS	TEMPORARY PARKING AND STORAGE
SB	TEMPORARY SEDIMENT BASIN
IP1	EROSION EEL
IP2	JPP IP
IP3	DANDY CURB SACK IP
IP4	TRUE DAM
RR	RIP RAP
---	TEMPORARY CONCRETE WASHOUT
EROSION NOTES	
---	PERMANENT TURF AREA (REFER TO LANDSCAPE PLAN)
---	PERMANENT SEED MIX (REFER TO LANDSCAPE PLAN)
---	PERMANENT MULCHING (REFER TO LANDSCAPE PLAN)
---	PROVIDE BARRICADE AT ALL ENTRANCE LOCATIONS WITHOUT TEMPORARY STONE CONSTRUCTION EXIT

811
Know what's below.
Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

NOTE TO GENERAL CONTRACTOR:
PRIOR TO CONSTRUCTION, GC MUST CLEARLY DELINEATE AND MARK OFF AREAS IDENTIFIED IN THE SWPPP OR IN THE FIELD, TO BE PROTECTED (SUCH AS NATURAL BUFFERS, TREES, HABITATS OF ENDANGERED/THREATENED SPECIES, HISTORIC PROPERTIES, ETC.)

SWPPP UPDATES AND AMENDMENTS
THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MARKS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G., PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.), CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.
IMPORTANT:
THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CEC AND OBTAIN WRITTEN CEC APPROVAL BEFORE DOING ANY OF THE FOLLOWING:
1. MODIFYING EROSION OR SEDIMENT CONTROL BMP'S (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK)
2. ADDING/DELETING EROSION OR SEDIMENT CONTROL BMP'S
3. MODIFYING THE SWPPP IMPLEMENTATION SEQUENCE, OR
4. PERFORMING ANY ACTIONS OR IN ANY MANNER THAT IS CONTRARY TO THE SWPPP.
THE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMP'S, WITHOUT CEC APPROVAL, IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY; HOWEVER, GC MUST NOTIFY THE CEC AS SOON AS PRACTICAL AS TO THEIR ACTIONS TO DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRED APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.
AMENDING THE SWPPP DOES NOT MEAN THAT IT HAS TO BE REPRINTED, IT IS ACCEPTABLE TO ADD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE CEC NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COPY OF THE ASSOCIATED RFI AND ITS RESPONSE FROM CEC. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

DEVELOPER/OWNER:
WAL-MART REAL ESTATE BUSINESS TRUST
MAIL STOP 5570
2001 SE 10TH STREET
BENTONVILLE, AR 72716-5570
479-204-1195
SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

IMPORTANT:
GC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

STORMWATER OUTFLOW
RUN-OFF GENERATED ON-SITE IS DETAINED AND RELEASED THROUGH A PROPOSED 18" PIPE AND DISCHARGES TO SCHLENSKER DITCH

PHASE 2 EROSION AND SEDIMENTATION CONTROL PLAN

REFER TO PLAN SET TITLED "E. BOONVILLE/NEW HARMONY ROAD IMPROVEMENTS FOR WAL-MART SUPERCENTER 3374-00" BY MANHARD CONSULTING, LTD. FOR OFFSITE BMP'S.

OFF-SITE RUN-ON DRAINAGE AREA 1
15.03 ACRES

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS AND TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.

PROPOSED Walmart SUPERCENTER
C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0
PROTO DATE 4-15-15

A 1'-6" WIDE SOD STRIP IS REQUIRED BEHIND ALL CONCRETE CURB UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS

TRIBUTARY AREA=30.81 AC
VOLUME REQUIRED=10.63 AC-FT
VOLUME PROVIDED=22.64 AC-FT

BENCHMARKS:
SOURCE BENCHMARK:
STATE HIGHWAY COMMISSION OF INDIANA BRASS DISK FOUND IN CONCRETE HEADWALL OF STATE ROUTE 57 BRIDGE LOCATED APPROXIMATELY 1375 FEET NORTHERLY OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 20 FEET WEST OF THE CENTER LINE OF STATE ROUTE 57.
ELEVATION = 393.91 (NGVD 29)
MEASURED ELEVATION = 393.55 (NAVD 88)

SITE BENCHMARKS:
1. CROSS ON EAST BOLT OF TRAFFIC SIGNAL LOCATED APPROXIMATELY 55 FEET NORTH OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 50 FEET NORTHWESTERLY OF THE CENTER LINE OF STATE ROUTE 57.
ELEVATION = 394.17 (NAVD 88)
2. TAG BOLT OF HYDRANT LOCATED APPROXIMATELY 15 FEET SOUTH OF THE CENTER LINE OF BOONVILLE-NEW HARMONY ROAD AND APPROXIMATELY 55 FEET EAST OF THE CENTER LINE OF BOHANNON DRIVE.
ELEVATION = 369.05 (NAVD 88)

REFER TO PLAN SET TITLED "STATE ROUTE 57 ROADWAY IMPROVEMENTS FOR WAL-MART SUPERCENTER 3374-00" BY MANHARD CONSULTING, LTD. FOR OFFSITE BMP'S.

Manhard CONSULTING LTD.
800 Woodlands Parkway, Vernon Hills, IL 60061
908 W. Lake Street, Bentonville, AR 72716
PH: 847.634.5550
FAX: 847.634.0085
manhard.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
PHASE 2 EROSION AND SEDIMENTATION CONTROL PLAN

PROJ. NO.: TTR
PROJ. ASSOC.: BAM
DRAWN BY: AS
DATE: 11-20-14
SCALE: 1"=60'
SHEET
5 OF 37
WALEV4 120886

NOTES:

- 1. SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY ANY MEANS NECESSARY TO ENSURE THAT THOSE DO NOT DISCHARGE FROM THE SITE. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHALL BE STORED AND HANDLED IN A MANNER CONSISTENT WITH THE RISK OF IMPACT THOSE REPRESENT, AND ACCORDING WITH THE REGULATIONS.
2. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTAINERS SHALL BE HAULED AWAY FROM THE SITE AND EMPTIED WHEN THOSE BECOME 90% FULL, OR AS NECESSARY, BY A CERTIFIED TRASH DISPOSAL SERVICE. LIDS OR COVERS FOR THE CONTAINERS SHALL BE PROVIDED FOR USE DURING RAIN EVENTS TO PREVENT WASTE CONTACT WITH STORMWATER. WASTES THAT CANNOT BE STORED IN A CONTAINER MUST BE STORED UNDER COVER OR INDOORS. THE LOCATION OF SOLID WASTE RECEPTACLES SHALL BE SHOWN ON THE SITE MAPS.

SOLID WASTE DISPOSAL

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. CONTRACTOR SHALL PROVIDE DESIGNATED LOCATION FOR SORTING AND SEPARATING HAZARDOUS WASTES.
2. HAZARDOUS WASTE STORAGE MUST BE PROTECTED FROM WEATHER ELEMENTS AND HAVE RESTRICTED ACCESS.
3. HAZARDOUS WASTE STORAGE MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
4. HAZARDOUS WASTE STORAGE MUST COMPLY WITH CONTRACT DOCUMENTS.

HAZARDOUS WASTE DISPOSAL

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. PORTABLE TOILETS MUST BE LOCATED AT LEAST 30 FEET FROM INLETS, CHANNELS, SWALES, OR PERMITTED LIMITS OF DISTURBANCE, AND MUST BE LOCATED AT LEAST 50 FEET FROM WATERS OF THE STATE, OR WATERS OF THE U.S.. PORTABLE TOILETS MUST BE SECURELY ANCHORED AND/OR TIED DOWN. SECONDARY CONTAINMENT SHALL BE PROVIDED AND FULL CAPACITY SHALL BE RESTORED IMMEDIATELY UPON DISCOVERY OF ITS DIMINISHMENT. THE LOCATION OF SANITARY FACILITIES SHALL BE SHOWN ON THE SITE MAPS.

SANITARY FACILITIES

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

TEMPORARY PARKING

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. STORM DRAIN INLET PROTECTION MEASURES SHALL PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS.
2. TEMPORARY CONTROLS SHALL BE CONSTRUCTED BEFORE THE SURROUNDING AREA IS DISTURBED.
3. TO PREVENT CLOGGING, STORM DRAIN CONTROL STRUCTURES MUST BE MAINTAINED FREQUENTLY.
4. CHECK ALL TEMPORARY CONTROL MEASURES DAILY, AND AFTER EACH STORM EVENT.
5. CONTROL MEASURES MUST BE BUILT PER DETAIL AND PLANS, AND MUST BE IN GOOD WORKING CONDITION AT ALL TIMES.

INLET PROTECTION

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. VERIFY WITH CEC WHICH DISCHARGES FROM DOWATERING ACTIVITIES ARE ALLOWED OR ARE NOT ALLOWED NON-STORMWATER DISCHARGES UNDER THE GENERAL PERMIT AND OTHER REGULATIONS. OBTAIN ALL DOWATERING PERMITS AND AUTHORIZATIONS REQUIRED BY STATE AND LOCAL REGULATIONS. SEE THE REQUIRED DOWATERING PERMITS AND AUTHORIZATIONS TABLE BELOW. GC MUST COMPLETE COLUMNS 3 AND 4.
2. GC MUST WANT TO HAVE WRITTEN COPY OF ALL REQUIRED DOWATERING PERMITS AND AUTHORIZATIONS BEFORE PERFORMING DOWATERING ACTIVITIES.
3. DISCHARGES FROM DOWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT SYSTEM OF CONTROL MEASURES, SUCH AS A SEDIMENT/FILTER BAG, SEDIMENT TRAP OR SEDIMENT BASIN, AND OTHERS, AS NEEDED, PRIOR TO BEING DISCHARGED FROM THE SITE OR INTO A WATER BODY OF THE STATE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DOWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO SANITARY SEWER SYSTEMS, STREAMS, RIVERS, LAKES OR OTHER AREAS BEYOND THE PERMITTED PROJECT AREA. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DOWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF.
4. IN SEDIMENT TRAP OR BASIN OR POND DOWATERING OPERATIONS, WATER MUST ONLY BE REMOVED FROM THE SURFACE OF THE CONTAINED WATER. A SKIMMER OR SIMILAR FLOATING DEVICE MUST BE USED, TO ONLY REMOVE THE WATER AT THE SURFACE.
5. DO NOT DISCHARGE ON A SLOPE GREATER THAN THREE PERCENT NOR WITHIN 20 FEET OF A SURFACE WATER BODY.
6. DOWATERING SHALL NOT OCCUR DURING OR IMMEDIATELY AFTER PRECIPITATION EVENTS, BUT EXCEPTIONS SHALL BE EVALUATED ON CASE BY CASE BASIS. CONTACT THE CEC AND RECEIVE WRITTEN APPROVAL.

Table with 4 columns: 1, 2, 3, 4. Headers: GOVERNING AGENCY, PERMIT NAME/TYPE, PERMIT NO. (GC TO COMPLETE), DATE PERMIT WAS ISSUED BY AGENCY (GC TO COMPLETE). Row 1: COUNTY OF VANDERBURGH, DOWATERING PERMIT, [blank], [blank].

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

DOWATERING

NOTES:

- 1. MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS. GC SHALL ADHERE TO ALL STATE AND LOCAL REGULATIONS PERTAINING TO MATERIAL STORAGE AREAS.
2. CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY.

MATERIAL LAYDOWN AND STORAGE AREA

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
2. STATE AND LOCAL REGULATIONS DO NOT PROHIBIT IN-GROUND CONCRETE WASHOUT PITS ON-SITE. RULE 5 SECTION 7(B)(2) OF THE INDIANA NPDES GENERAL PERMIT RULE PROGRAM REQUIRES IDENTIFICATION OF AREAS WHERE CONCRETE TRUCK WASHOUT IS PERMISSIBLE TO BE CLEARLY POSTED AT APPROPRIATE AREAS OF THE SITE.
3. DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALY AVAILABLE ABOVE GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL CONTAIN AND/OR ACTIVELY MANAGE BOTH SOLID AND FLUID COMPONENTS OF THE MIX. CONCRETE WASHOUT CONTAINERS MUST BE CLEANED OR EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 85% TO PREVENT ANY POTENTIAL OVERFLOW IN A STORM EVENT.
4. ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS.

CEMENT AND CONCRETE WASHOUT

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. PROVIDE WASH STATION IN A LOCATION PROTECTED FROM WEATHER ELEMENTS.
2. COLLECT ALL USED WASH WATER AND DISPOSE OF IT PROPERLY.
3. PROVIDE ADEQUATE SUPPLY OF WATER AND ANY OTHER SUPPLIES TO ENSURE PROPER OPERATION OF WASH STATION WHEN NEEDED.

PAINT AND STUCCO WASHOUT

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

NOTES:

- 1. ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION. UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO. (NOTE: TOPSOIL STOCKPILE ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS. STOCKPILING OF TOPSOIL AT AN OFF-SITE LOCATION OR TRANSFER OF TOPSOIL TO OTHER LOCATIONS MAY ALSO BE ACCEPTABLE BUT MUST BE AUTHORIZED BY THE CEC).
2. ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. SEE TEMPORARY SEEDING OR STABILIZATION DETAIL. SUITABLE ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS.
3. PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON.
4. STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES.
5. STOCKPILE LOCATIONS SHALL BE NOTED ON THE SITE MAPS.
6. SALVAGED TOPSOIL SHALL BE SCREENED BEFORE BEING REUSED ON-SITE.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

STOCKPILES

NOTES:

- 1. LARGE AREAS OF SOIL THAT ARE DENUDEED OF VEGETATION AND HAVE NO PROTECTION FROM PARTICLES BEING PICKED UP AND CARRIED BY WIND SHOULD BE PROTECTED WITH A TEMPORARY COVER OR KEPT UNDER CONTROL WITH WATER OR OTHER SOIL ADHERING PRODUCTS TO PREVENT SOIL PARTICLES FROM BECOMING AIRBORNE, AND FROM EXITING THE SITE PERIMETER.
2. WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATED ON THE SITE. TACKIFIERS MAY BE USED TO HOLD SOIL IN PLACE AND PREVENT WIND. MANUFACTURER RECOMMENDATIONS FOR APPLICATION LOCATIONS AND RATES MUST BE USED FOR DUST CONTROL APPLICATIONS. ONLY SWPPP-SPECIFIED TACKIFIERS MAY BE USED ON THE PROJECT SITE; ANY CHEMICAL APPLICATION NOT INCLUDED IN THE SWPPP MUST BE APPROVED, IN WRITING, BY THE CEC.
3. DUST CONTROL MUST BE PROVIDED BY THE GC TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE FEDERAL, LOCAL AND STATE DUST CONTROL REGULATIONS.
4. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
5. IN ADDITION TO BMPS, GC SHALL PERFORM PER PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

DUST CONTROL

NOTES:

- 1. THE GC SHALL IDENTIFY MASONS' AREA WITH LEGIBLE SIGNAGE ON THE SITE. TO THE EXTENT PRACTICAL, ALL MASONS' TOOLS, MATERIAL, INCLUDING SAND AND SACKED CEMENT AND/OR MORTAR MATERIALS, MIX, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED. MATERIALS VULNERABLE TO WEATHER ELEMENTS SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY; SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE.
2. RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASONS' AREA. COVERED RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.
3. THE MASONS' AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE), FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASONS' AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASONS' AREA SHALL BE SHOWN ON THE SITE MAPS.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

MASONS' AREA

NOTES:

- 1. THE GC SHALL IDENTIFY FUELING AREAS WITH LEGIBLE SIGNAGE ON THE SITE. TEMPORARY ON-SITE FUEL TANKS FOR CONSTRUCTION VEHICLES SHALL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TANKS, SINGLE AND DOUBLE WALLED, SHALL BE PROVIDED WITH SECONDARY CONTAINMENT (THAT IS CONTAINMENT EXTERNAL TO AND SEPARATE FROM PRIMARY CONTAINMENT). TANKS SHALL HAVE APPROVED SPILL CONTAINMENT WITH THE CAPACITY REQUIRED BY THE APPLICABLE REGULATIONS. SECONDARY CONTAINMENT SHALL BE CONSTRUCTED OF MATERIALS OF SUFFICIENT THICKNESS, DENSITY, AND COMPOSITION SO AS NOT TO BE STRUCTURALLY WEAKENED AS A RESULT OF CONTACT WITH THE FUEL STORED AND CAPABLE OF CONTAINING DISCHARGED FUEL FOR A PERIOD OF TIME EQUAL TO OR LONGER THAN THE MAXIMUM ANTICIPATED TIME SUFFICIENT TO ALLOW RECOVERY OF DISCHARGED FUEL. IT SHALL BE CAPABLE OF CONTAINING 110% OF THE VOLUME OF THE PRIMARY TANK IF A SINGLE TANK IS USED, OR IN THE CASE OF MULTIPLE TANKS, 150% OF THE LARGEST TANK OR 110% OF THE AGGREGATE, WHICHEVER IS LARGER.
2. THE TANKS SHALL BE IN SOUND CONDITION, FREE OF RUST OR OTHER DAMAGE WHICH MIGHT COMPROMISE CONTAINMENT. FUEL STORAGE AREAS SHALL MEET ALL EPA, OSHA AND OTHER REGULATORY REQUIREMENTS FOR SIGNAGE, FIRE EXTINGUISHERS, ETC. HOSES, VALVES, FITTINGS, CAPS, FILLER NOZZLES, AND ASSOCIATED HARDWARE SHALL BE MAINTAINED IN PROPER WORKING CONDITION AT ALL TIMES. TANKS SHALL BE LOCATED TO MINIMIZE EXPOSURE TO WEATHER AND SURFACE WATER DRAINAGE FEATURES. THE LOCATION OF FUEL TANKS SHALL BE SHOWN ON THE SITE MAPS.
3. A SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED IF ABOVEGROUND OIL STORAGE CAPACITY AT THE CONSTRUCTION SITE EXCEEDS 1,320 GALLONS OR AS SPECIFIED BY STATE.
4. CONTAINERS WITH A STORAGE CAPACITY OF 55-GALLONS OR LESS ARE NOT INCLUDED WHEN CALCULATING SITE STORAGE CAPACITY. THE GC SHALL WORK WITH THE CEC TO DEVELOP AND IMPLEMENT A SPCC PLAN IN ACCORDANCE WITH THE OIL POLLUTION PREVENTION REGULATION AT TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 112, (40 CFR 112).

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

FUEL AND PETROLEUM STORAGE AND USE

NOTES:

- 1. THE GC SHALL DESIGNATE AREAS ON THE SITE MAPS FOR EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR. THE GC AND SUBCONTRACTORS SHALL UTILIZE SUCH DESIGNATED AREAS. CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE PROTECTED BY A TEMPORARY PERIMETER BERM, SHALL NOT OCCUR WITHIN 150 FEET OF ANY WATERWAY, WATER BODY OR WETLAND, AND SHALL OCCUR IN AREAS LOCATED AS FAR AS PRACTICAL FROM STORM SEWER INLETS. DRIP PANS SHALL BE USED FOR VEHICLE MAINTENANCE ACTIVITIES AND RESULTANT WASTES SHALL BE DISPOSED OF IN ACCORDANCE WITH THE HAZARDOUS MATERIAL MANAGEMENT AND SPILL REPORTING PLAN NOTES INCLUDED ON THIS PLAN SHEET.
2. USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED (FOR EXAMPLE, WASHING VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.). ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2013

EQUIPMENT AND VEHICLE CLEANING AND MAINTENANCE AREAS

NOTES:

- 1. USING WATER FROM BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS FOR IRRIGATION MINIMIZES DISCHARGES FROM THE SITE AND IT MAY SATISFY OTHER NEEDS OF THE CONSTRUCTION PROJECT, SUCH AS DUST CONTROL, VEGETATIVE ESTABLISHMENT, ETC.
2. CARE SHOULD BE TAKEN THAT WATER UTILIZED FROM CONTAINMENT AREAS ON-SITE FOR CONSTRUCTION PURPOSES DOES NOT DISCHARGE OFF-SITE. IF DISCHARGE IS ANTICIPATED OR OBSERVED, DOWATERING PROCEDURES STATED IN THE DOWATERING DETAIL MUST BE FOLLOWED.
3. GC SHALL IMPLEMENT IRRIGATION OR DISPERSION AS PRACTICABLE TO REDUCE WATER VOLUME IN IMPOUNDMENTS AND TO FOSTER VEGETATION GROWTH.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

IRRIGATION OR DISPERSION

NOTES:

- 1. THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
2. THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
3. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
4. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
5. IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
6. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAW/HAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
7. ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT ODOOR(TM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF ODOOR(TM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
8. ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR AGENCY EROSION CONTROL DEVICES ARE WARRANTED.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

TEMPORARY SEEDING OR STABILIZATION

NOTES:

- 1. PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION.
2. THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE. FOR THOSE AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED FOR GREATER THAN 14 DAYS, THE CONTRACTOR SHOULD INITIATE TEMPORARY STABILIZATION PER THE TEMPORARY SEEDING OR STABILIZATION DETAIL.
3. THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
4. SOILS MUST BE PREPARED BEFORE INSTALLATION OF SOD OR SEED. SEE 02900 SPECIFICATION FOR INSTRUCTION ON PROPER SOIL PREPARATION.
5. AT THE COMPLETION OF GROUND-DISTURBING ACTIVITIES, THE ENTIRE SITE MUST HAVE PERMANENT VEGETATIVE COVER MEETING VEGETATIVE DENSITY REQUIREMENTS IN THE GENERAL PERMIT, OR MULCH PER LANDSCAPE PLAN, IN ALL AREAS NOT COVERED BY HARDSCAPE (STONE, PAVEMENT, BUILDINGS, ETC.).
6. SEEDED AREAS SHALL BE PROTECTED WITH STRAW MULCH, HYDRAULIC MULCH OR A ROLLED EROSION CONTROL PRODUCT. STRAW MULCH MUST BE TACKIFIED OR CRIMPED BY DISC OR OTHER MACHINERY, AND ROLLED EROSION CONTROL PRODUCTS MUST BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ONLY ROLLED EROSION CONTROL PRODUCTS ARE PERMITTED TO BE USED IN FLOW CONVEYANCES.
7. ALL AREAS TO BE SEEDED MUST MEET TOPSOIL DEPTH, PH AND ORGANIC CONTENT REQUIREMENTS AS SPECIFIED IN THE 02900 SPECIFICATION - PLANTING OR XERISCAPE SPECIFICATION.
8. FINAL SITE STABILIZATION IS ACHIEVED WHEN PERENNIAL VEGETATIVE COVER PROVIDES PERMANENT STABILIZATION WITH A UNIFORM DENSITY GREATER THAN 70 PERCENT OVER THE ENTIRE AREA TO BE STABILIZED BY VEGETATIVE COVER. THIS AREA IS EXCLUSIVE OF AREAS THAT ARE COVERED WITH ROCK (CRUSHED GRANITE, GRAVEL, ETC.) OR LANDSCAPE MULCH, PAVED OR HAVE A BUILDING OR OTHER PERMANENT STRUCTURE ON THEM.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

PERMANENT SEEDING, SOD OR MULCHING

NOTES:

- 1. CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
2. SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS AND THE 02900 PLANTING SPECIFICATION IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
3. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPE COVER (STONE, MULCH, ETC.), OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
4. VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
5. THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL, BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
6. RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
7. ALL SEEDED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.

WAL-MART STANDARD DETAIL
LAST REVISED: JUNE 2012

SEEDING/VEGETATION REQUIREMENTS

DEVELOPER/OWNER:
WAL-MART REAL ESTATE BUSINESS TRUST
MAIL STOP 5570
2001 SE 10TH STREET
BENTONVILLE, AR 72716-5570
479-204-1195

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

IMPORTANT:
GC MUST SIGN ALL PLAN SHEETS AND ANY NEW
PLAN SHEETS ISSUED BY THE CEC.

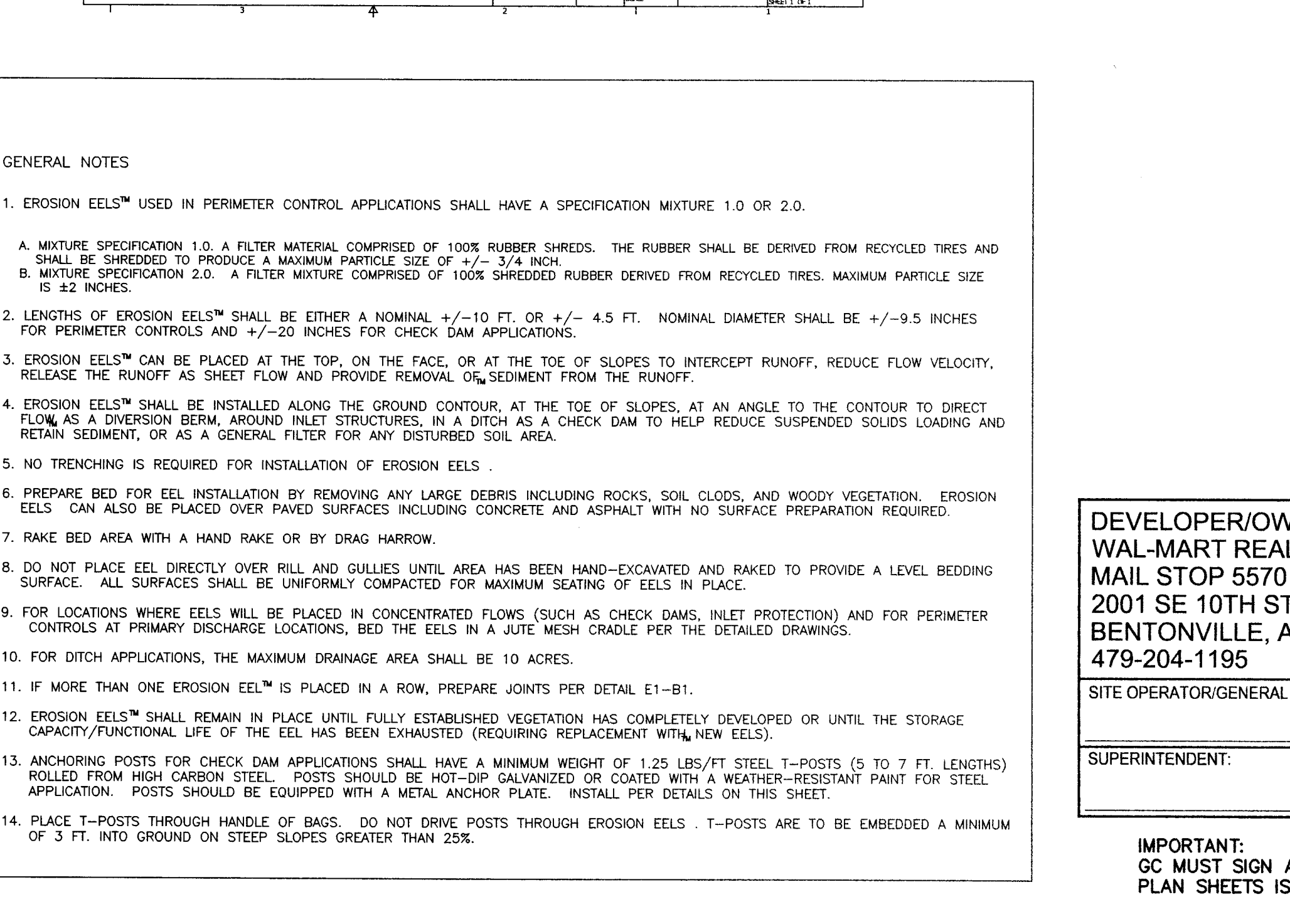
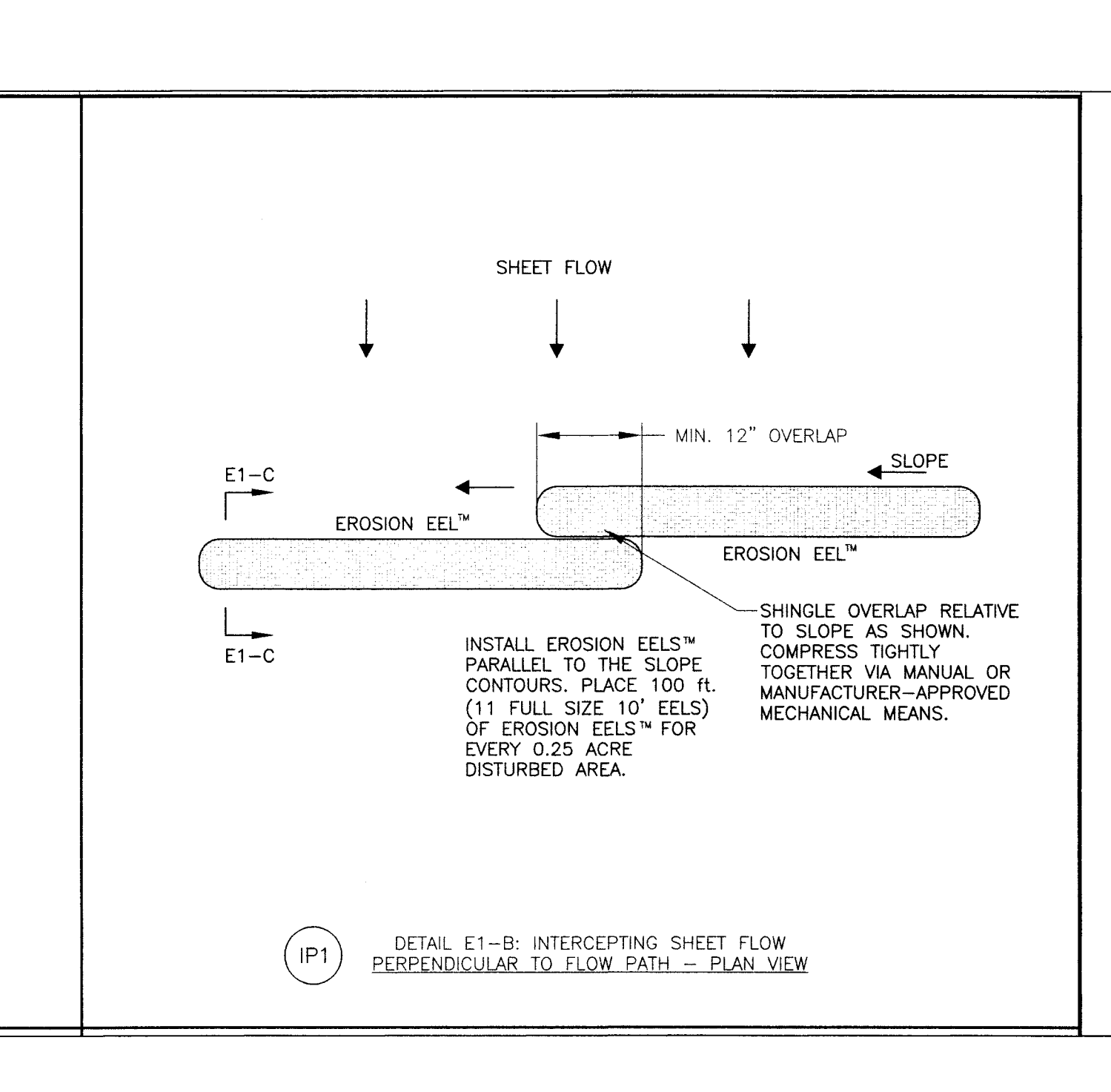
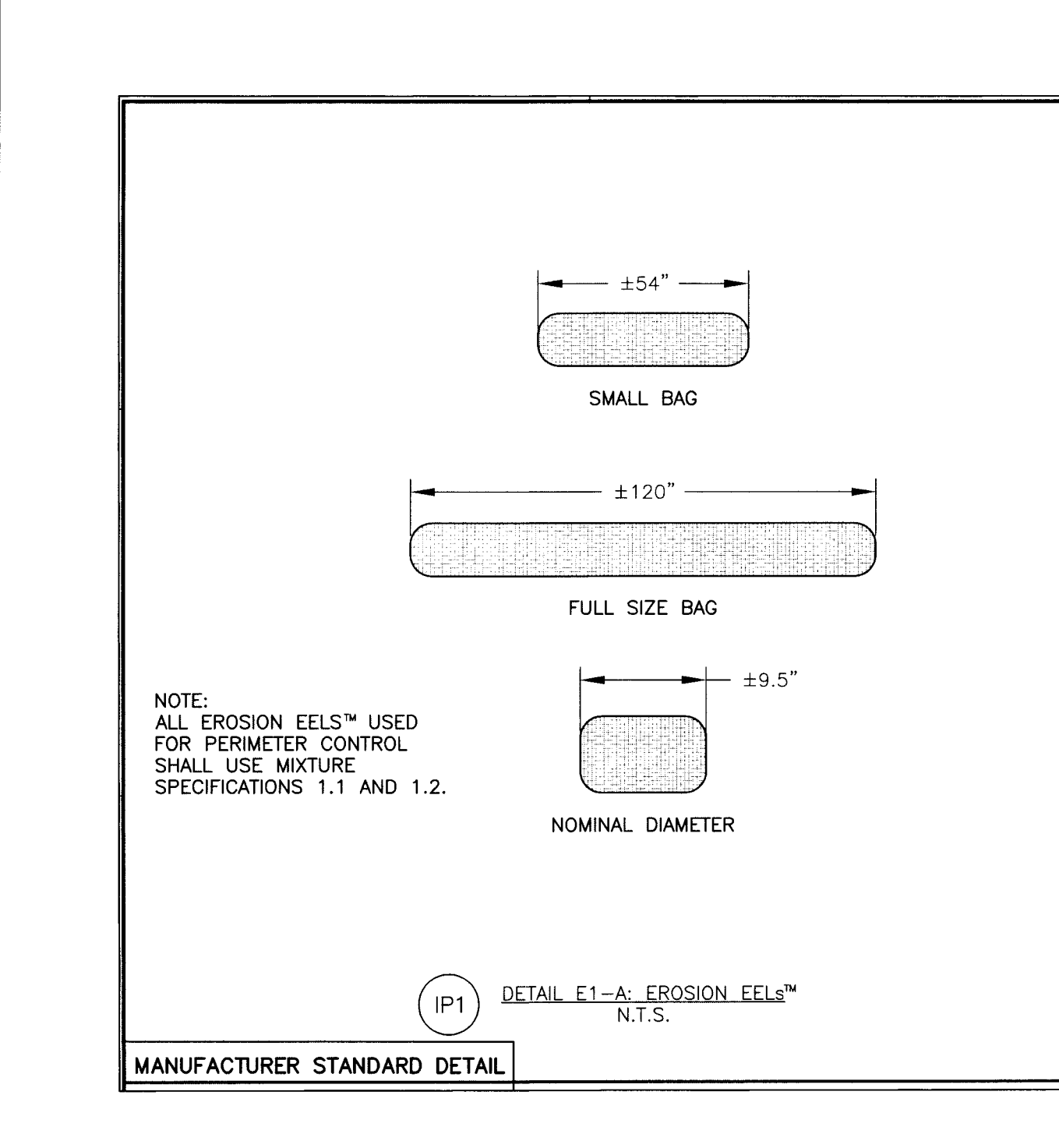
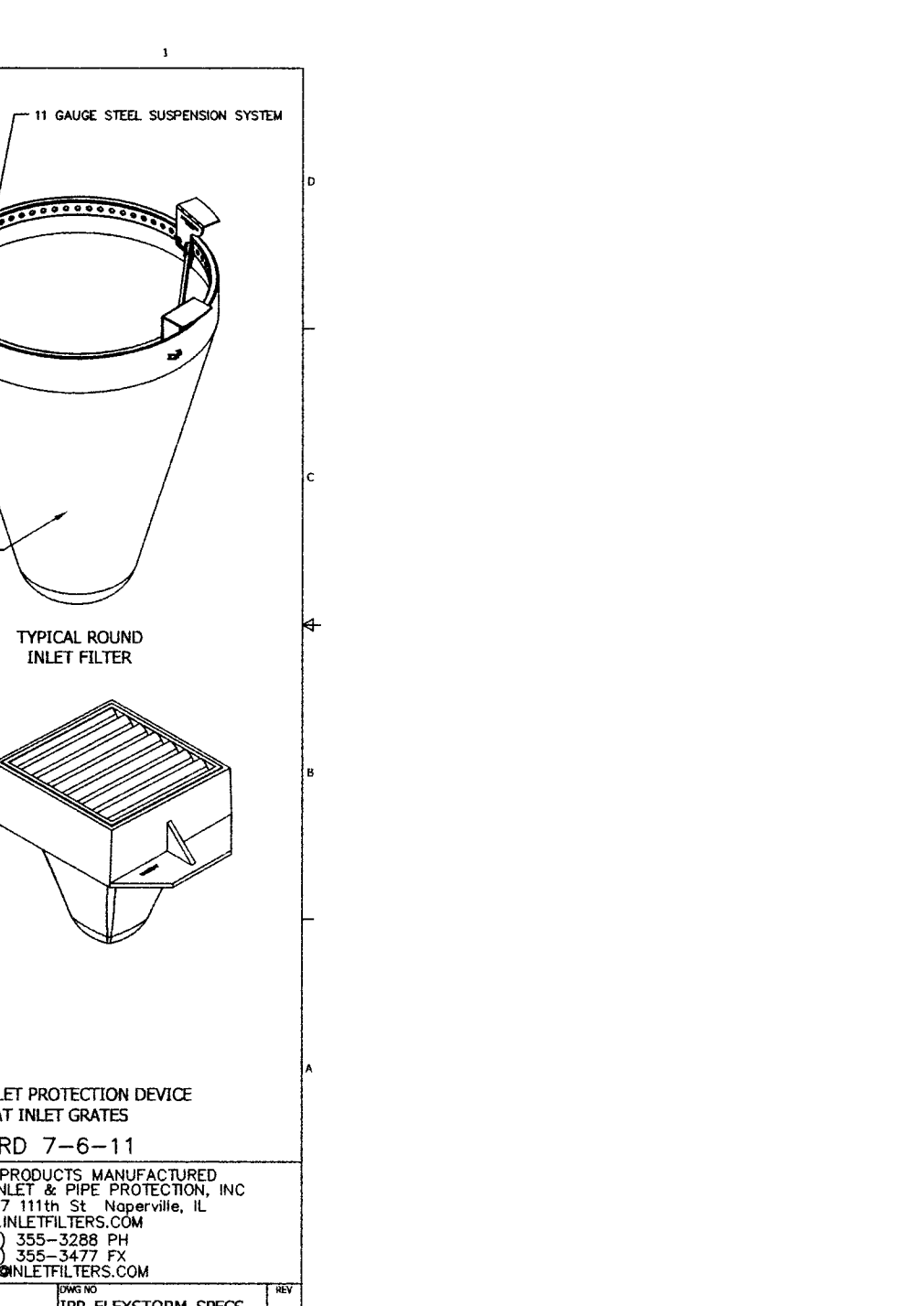
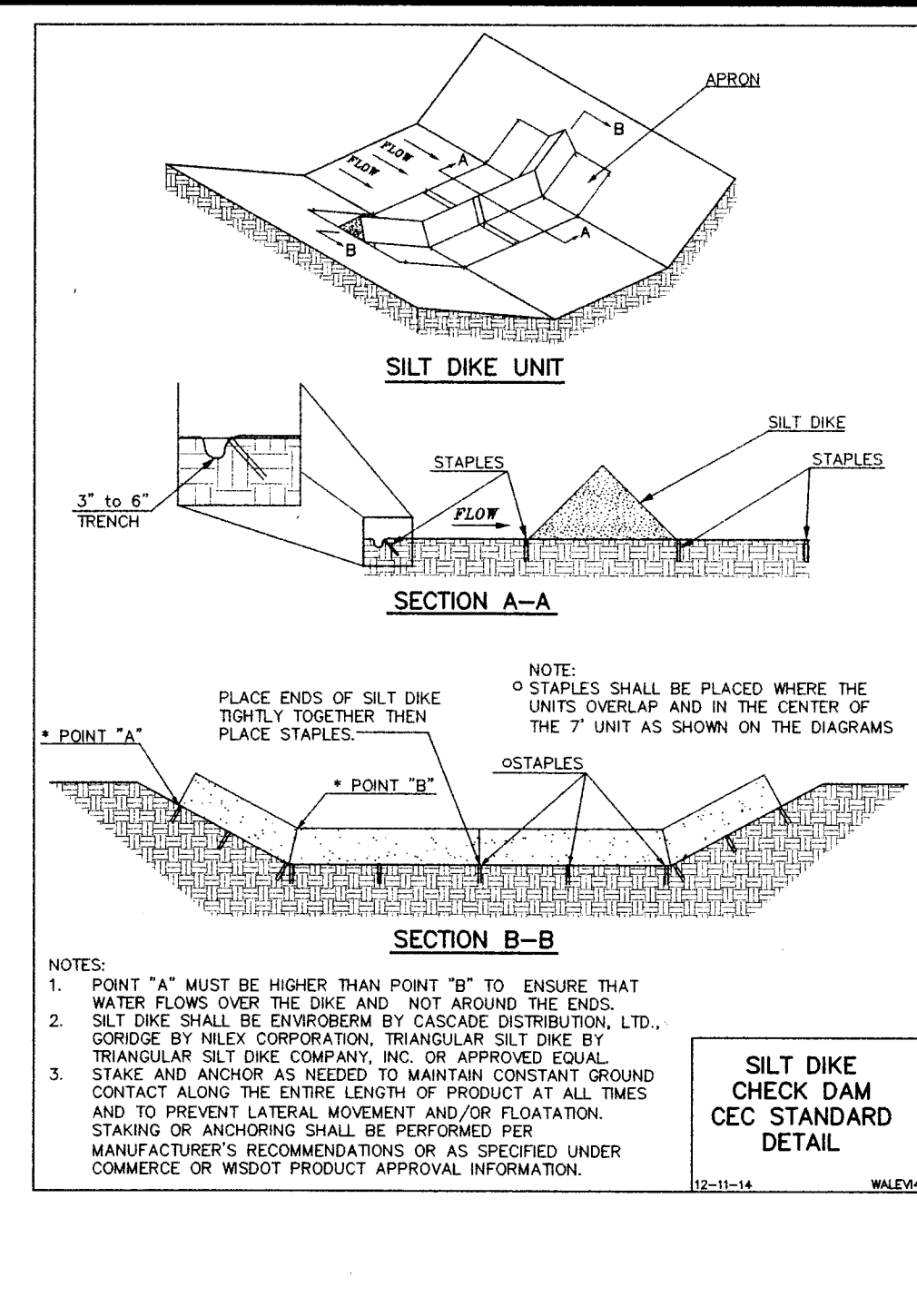
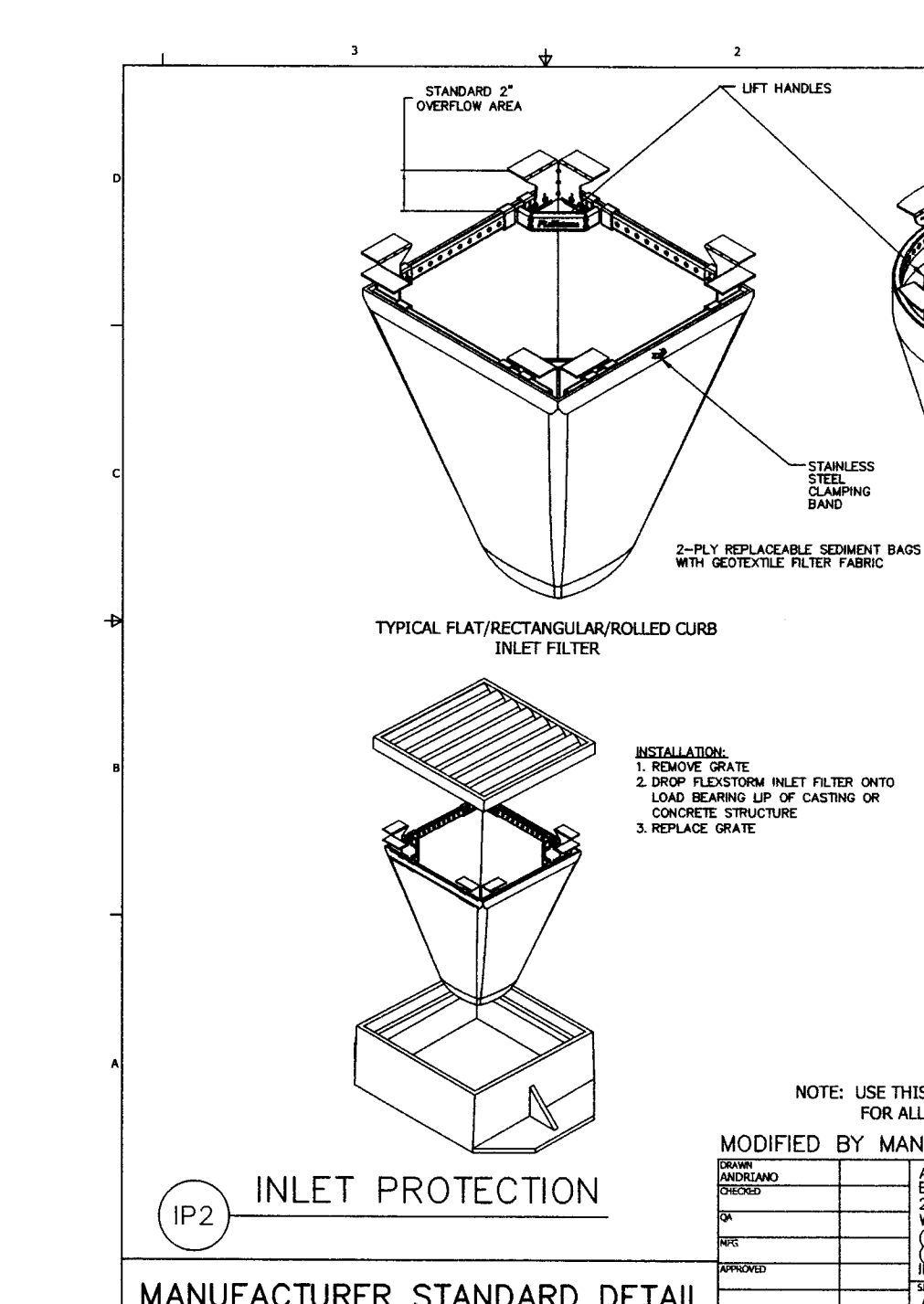
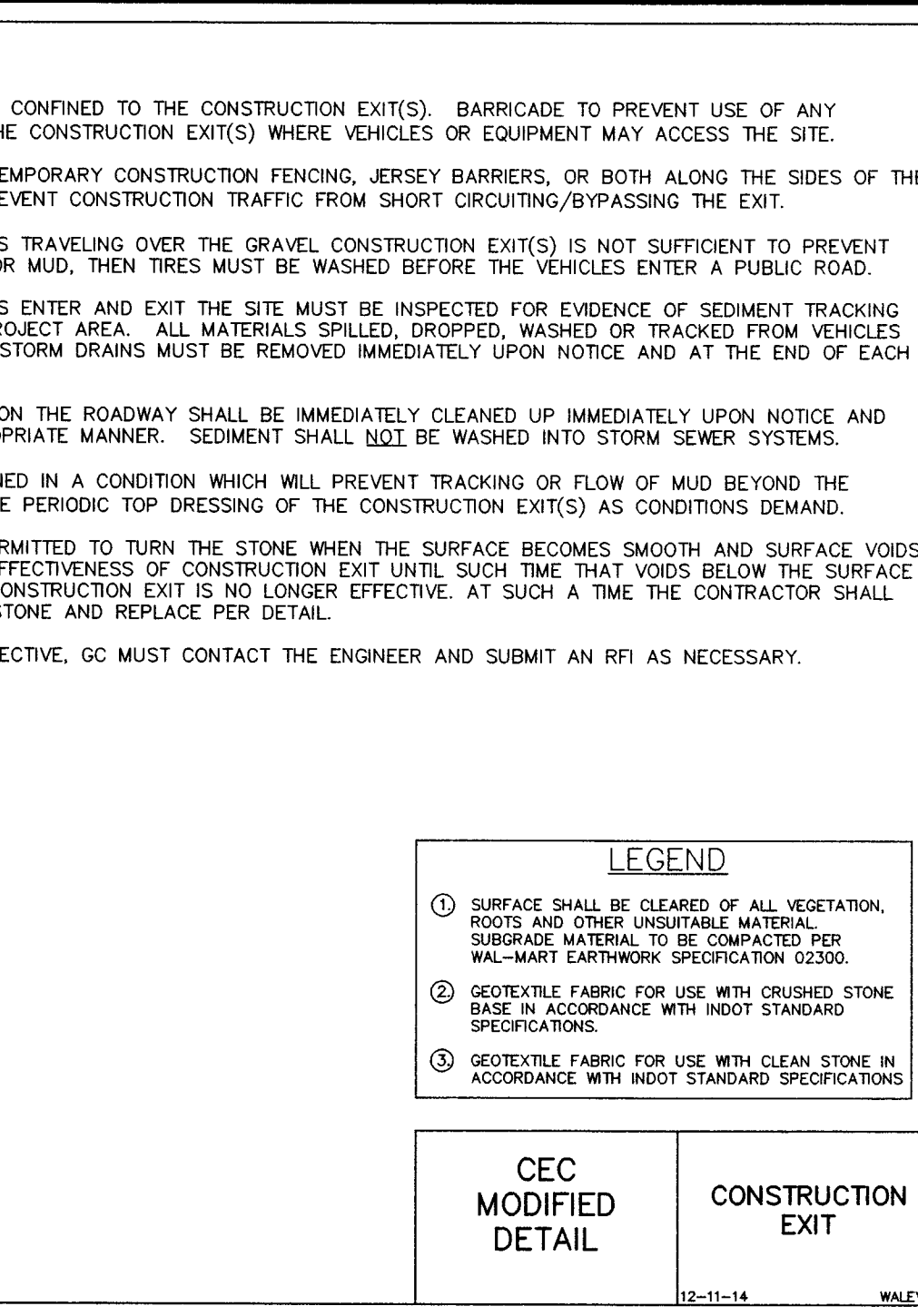
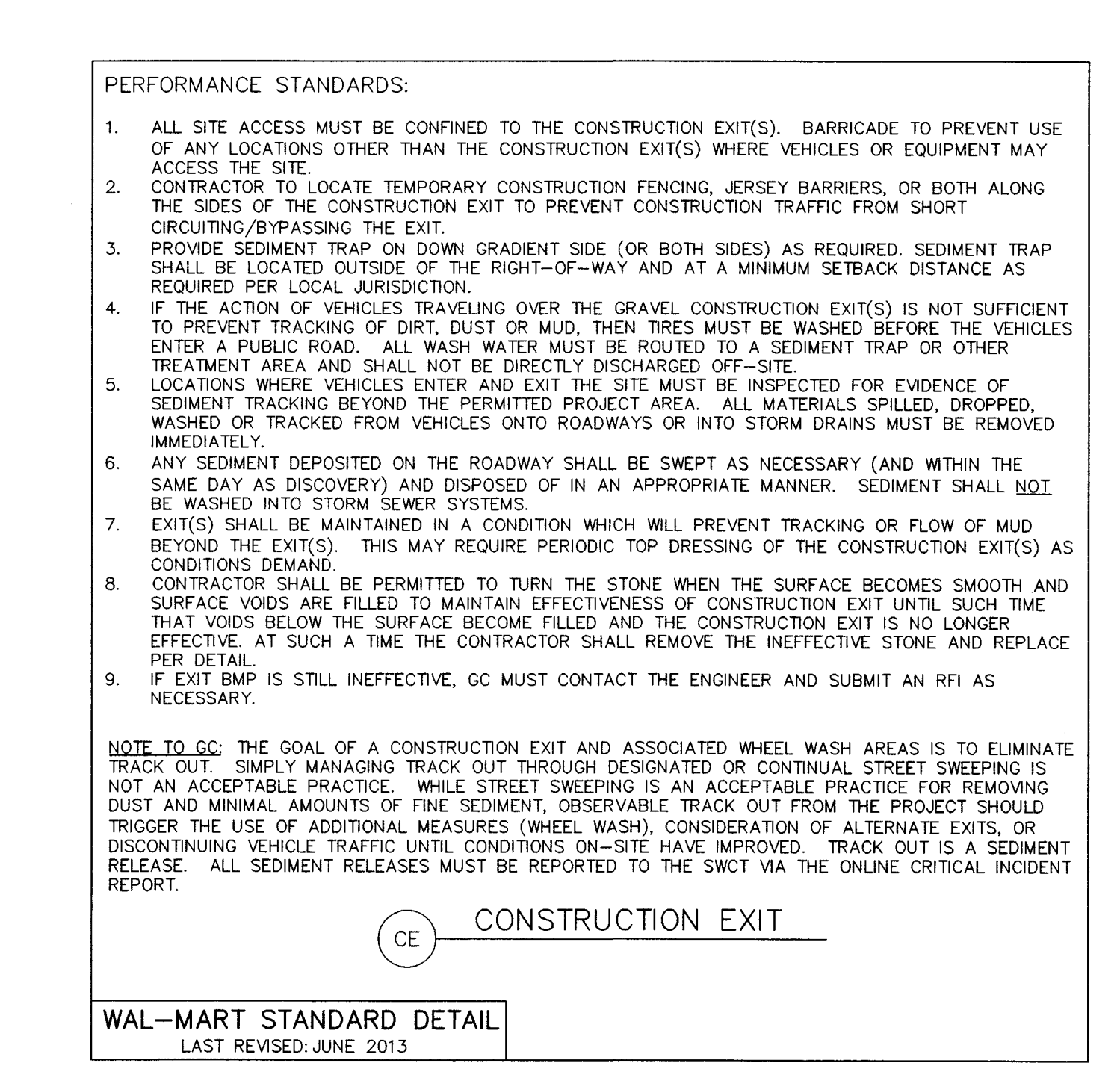
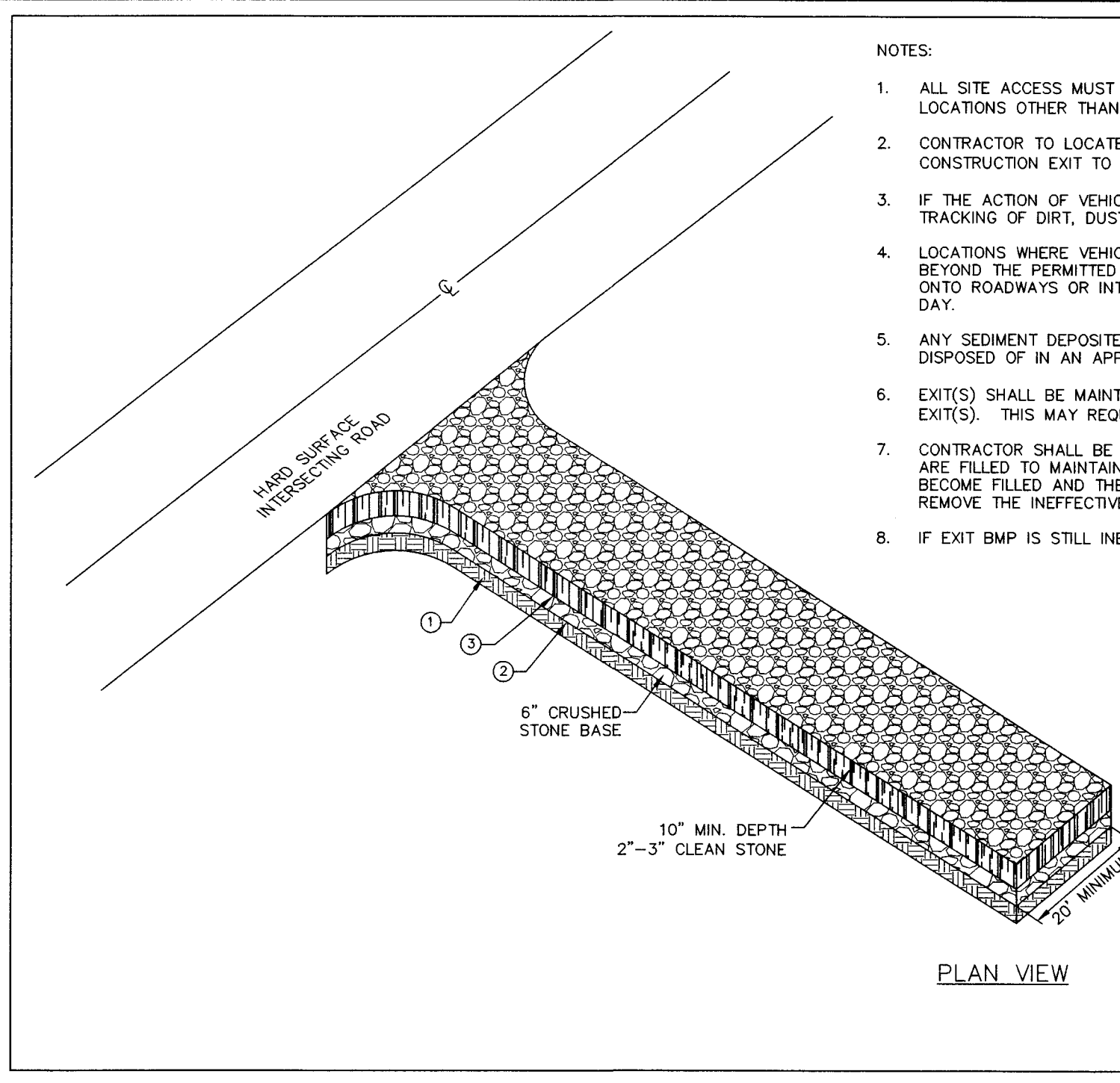
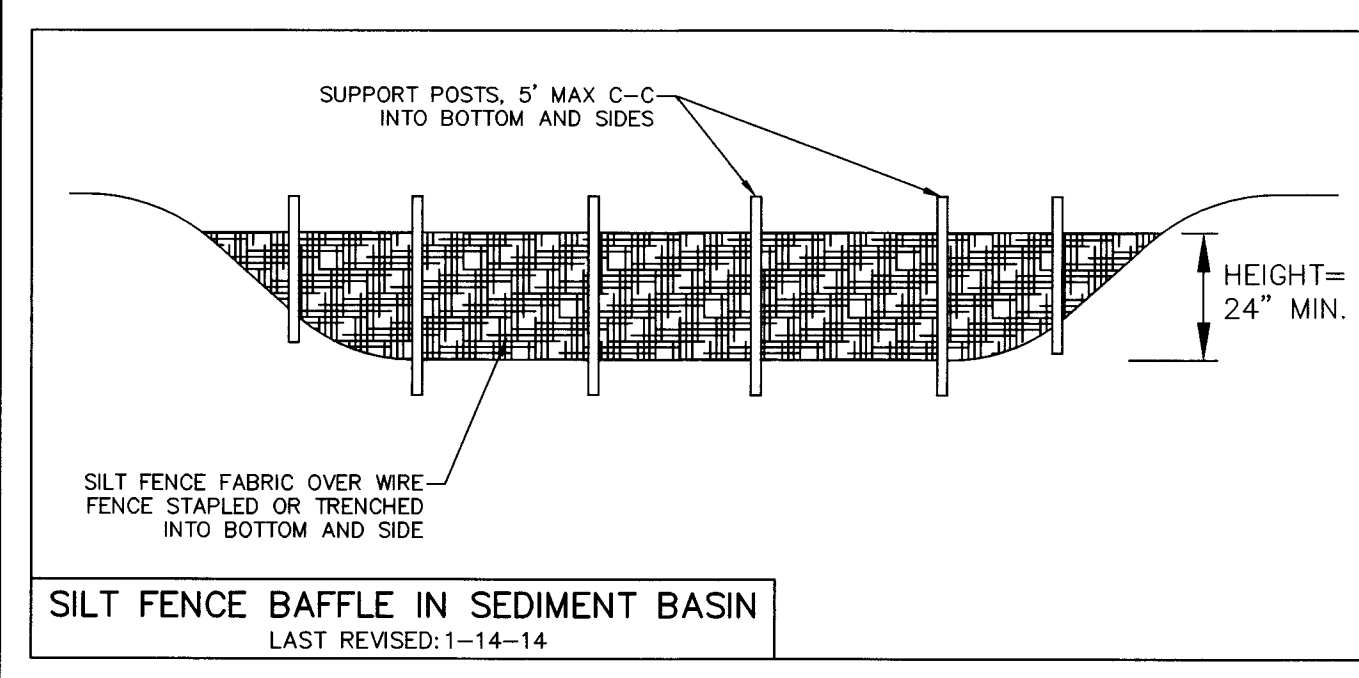
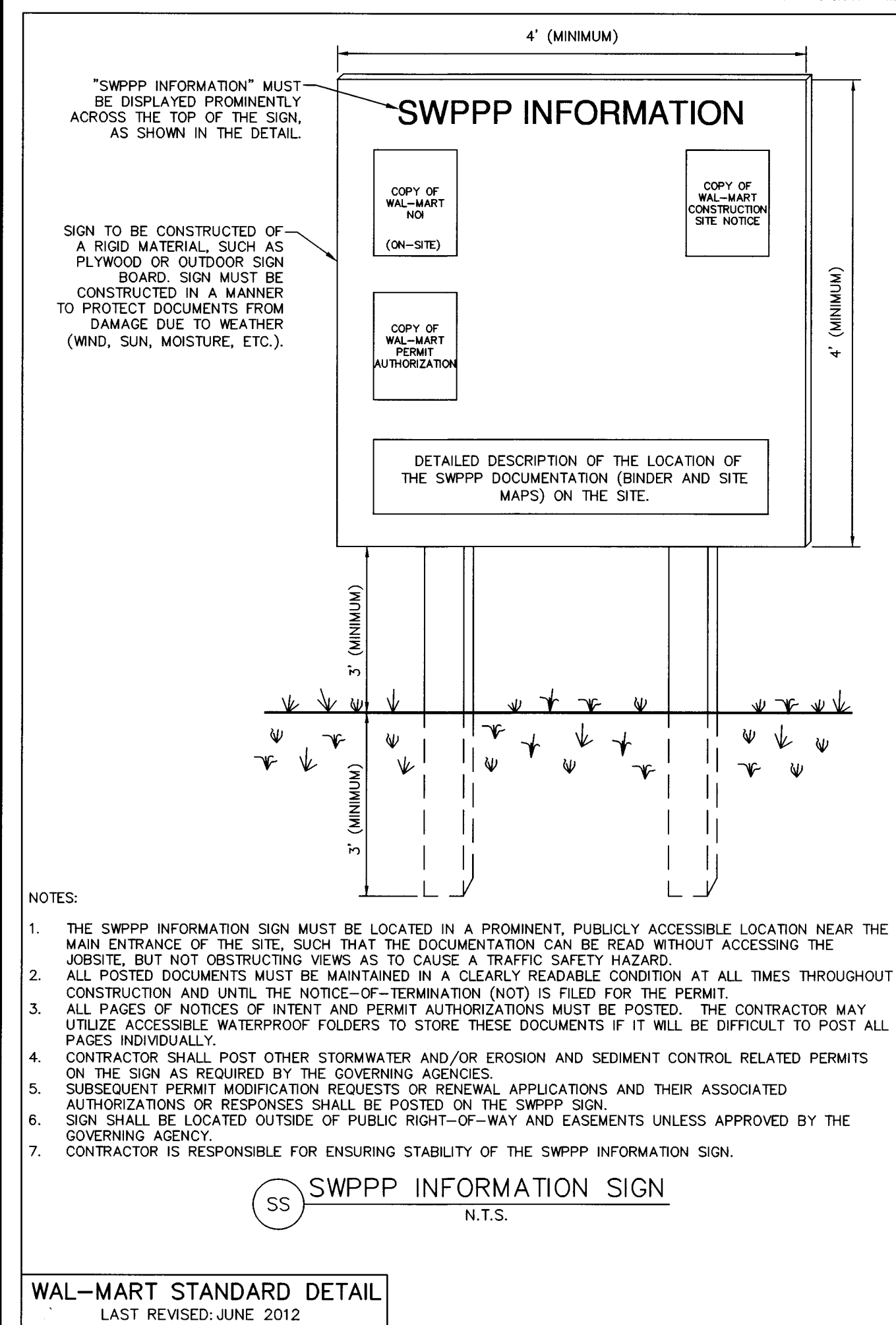
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Table with columns for revision tracking: NO., DATE, REVISIONS.

Manhard CONSULTING LTD.
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708.477.8584
www.manhardconsulting.com

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
EROSION AND SEDIMENTATION CONTROL DETAILS

PROJ. MGR.: TTR
PROJ. ASSOC.: BAM
DRAWN BY: MH
DATE: 11-20-14
SCALE: N.T.S.
SHEET 6 OF 37
WALEV14 120866



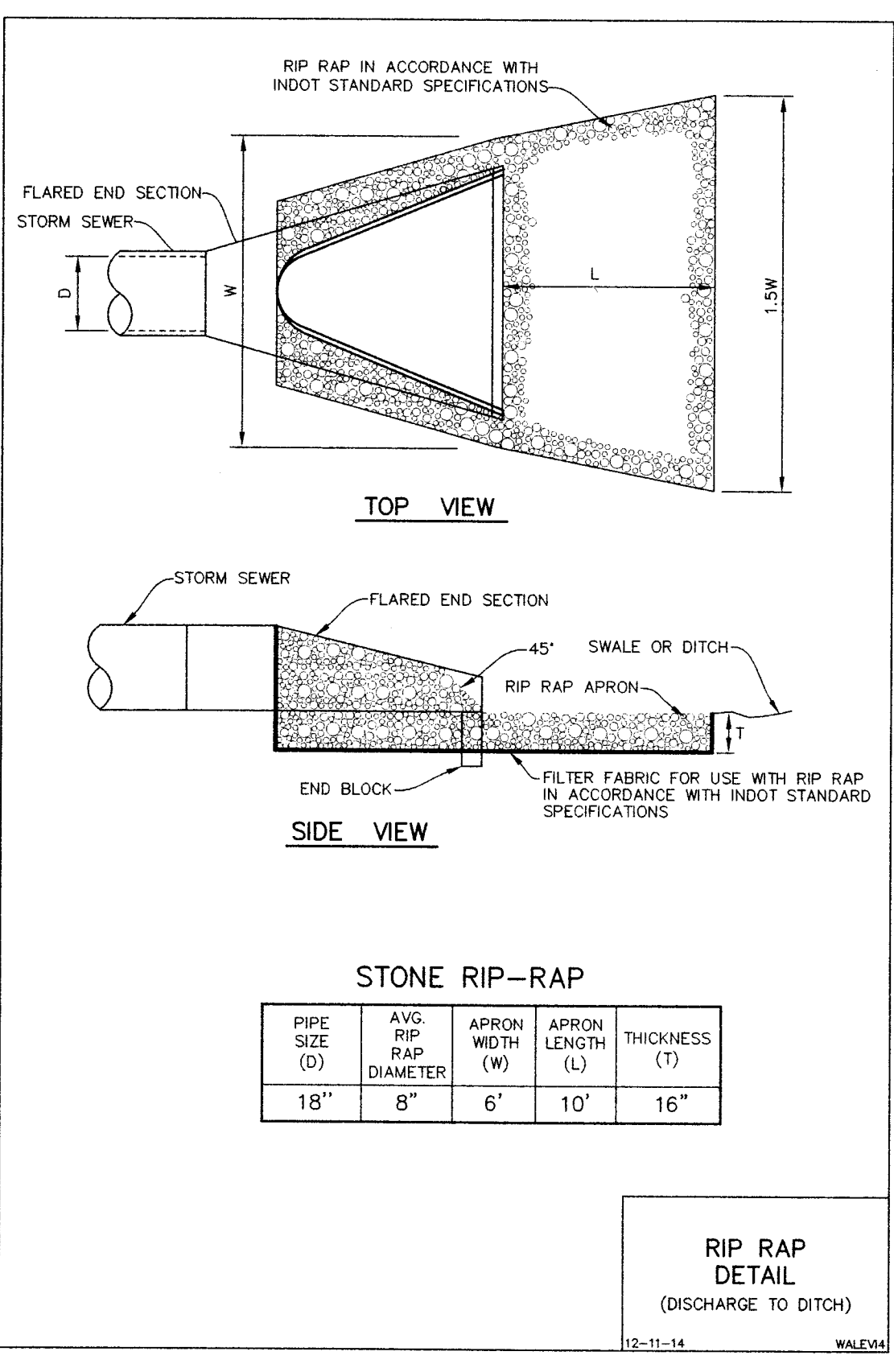
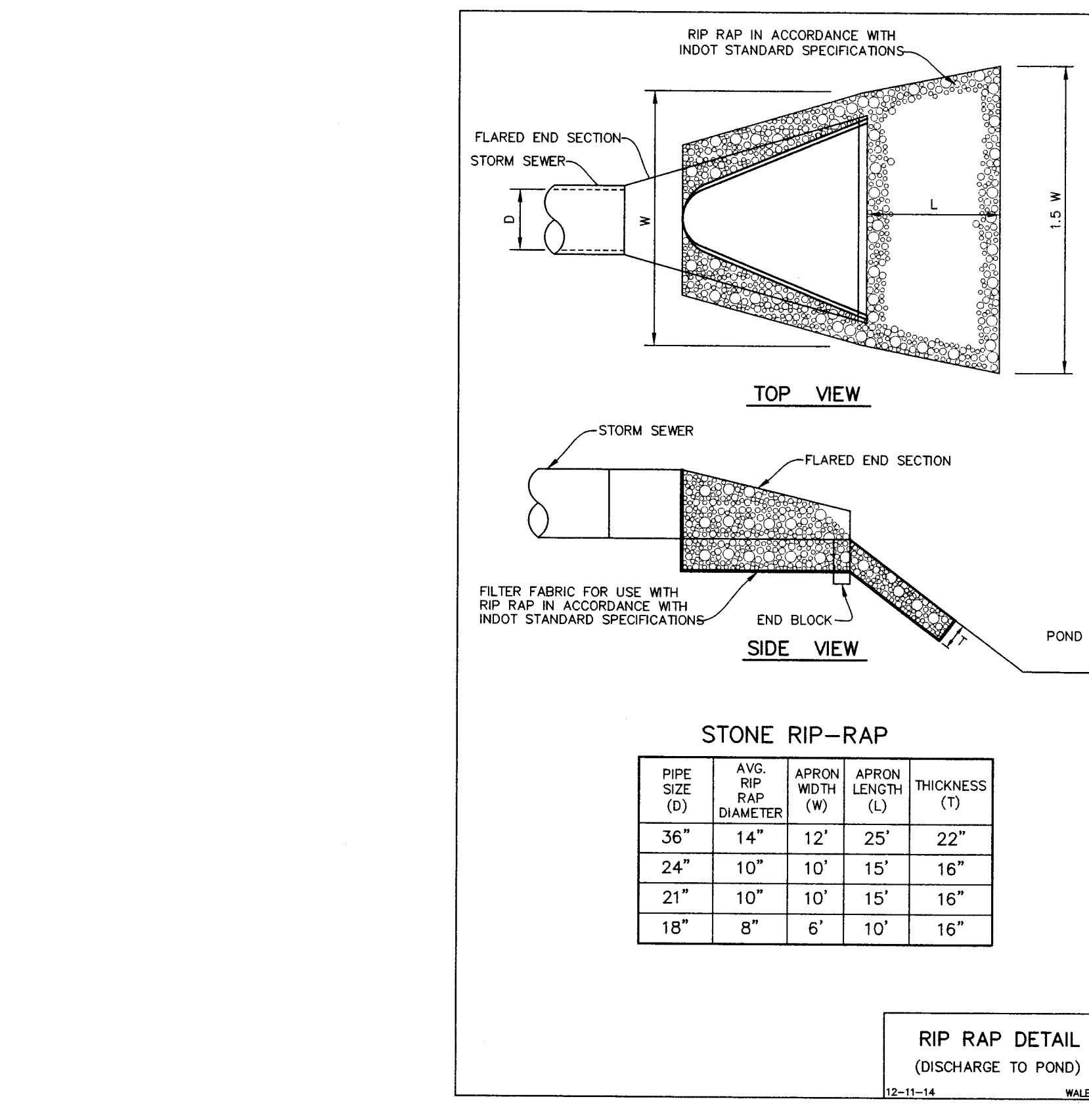
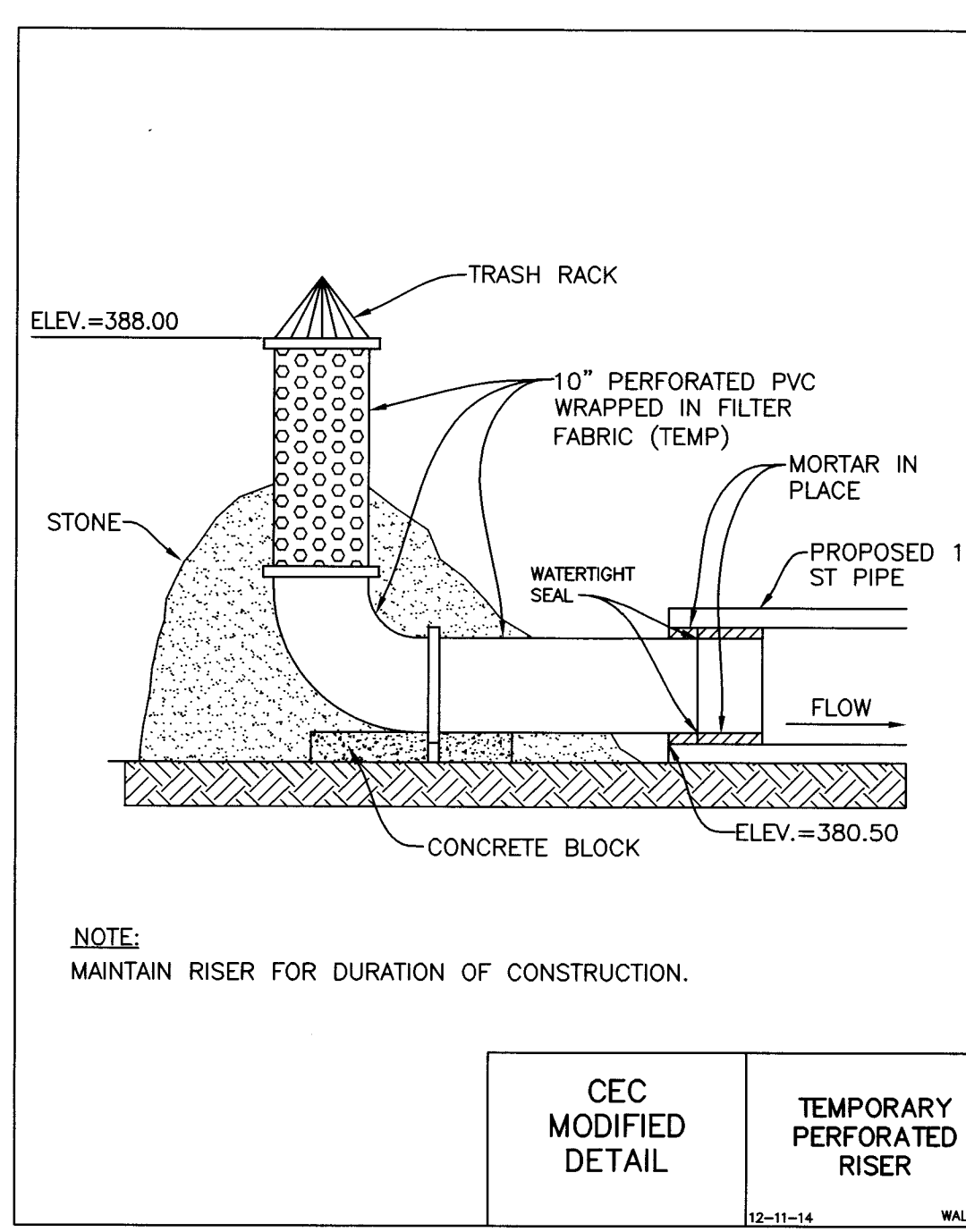
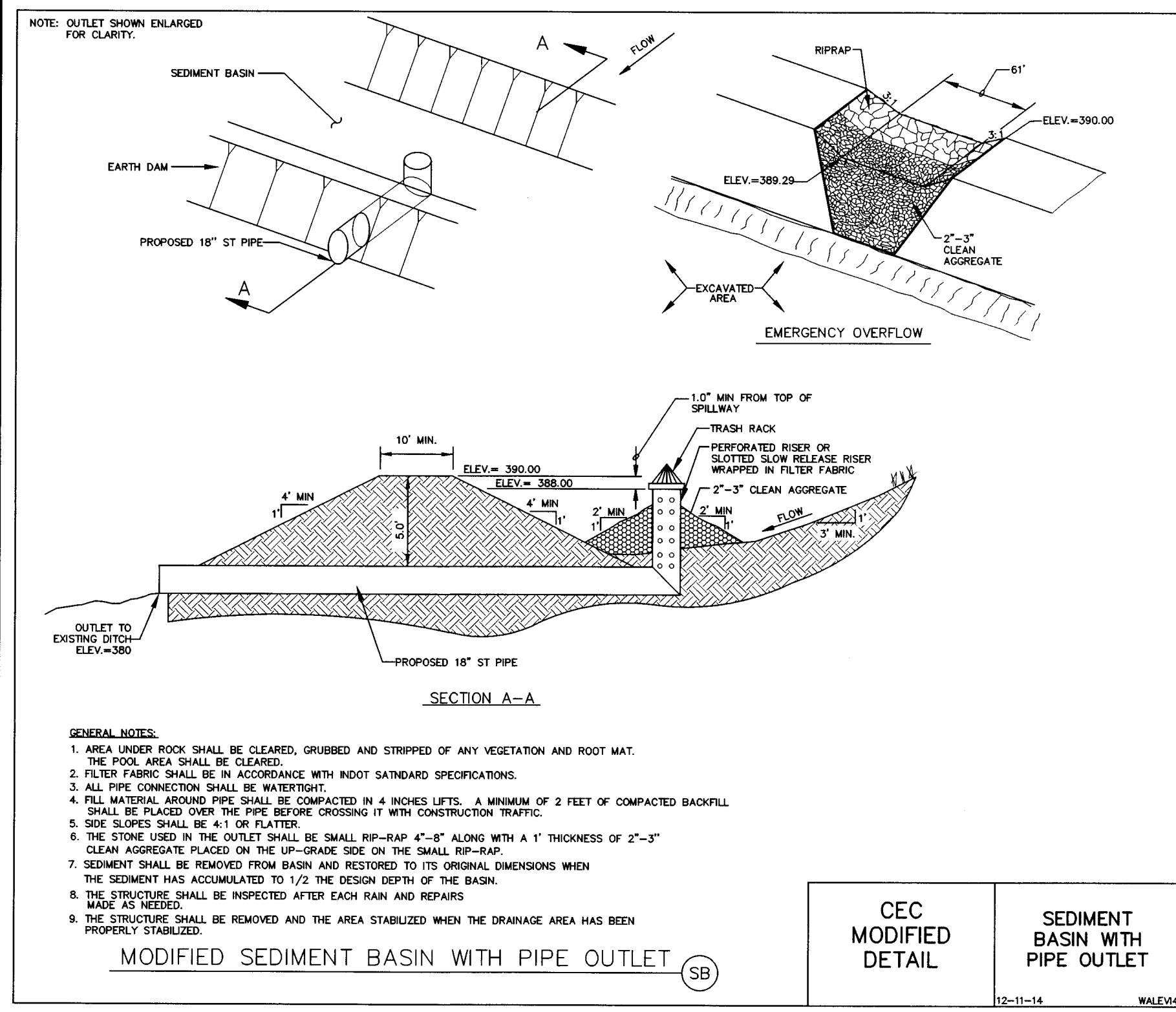
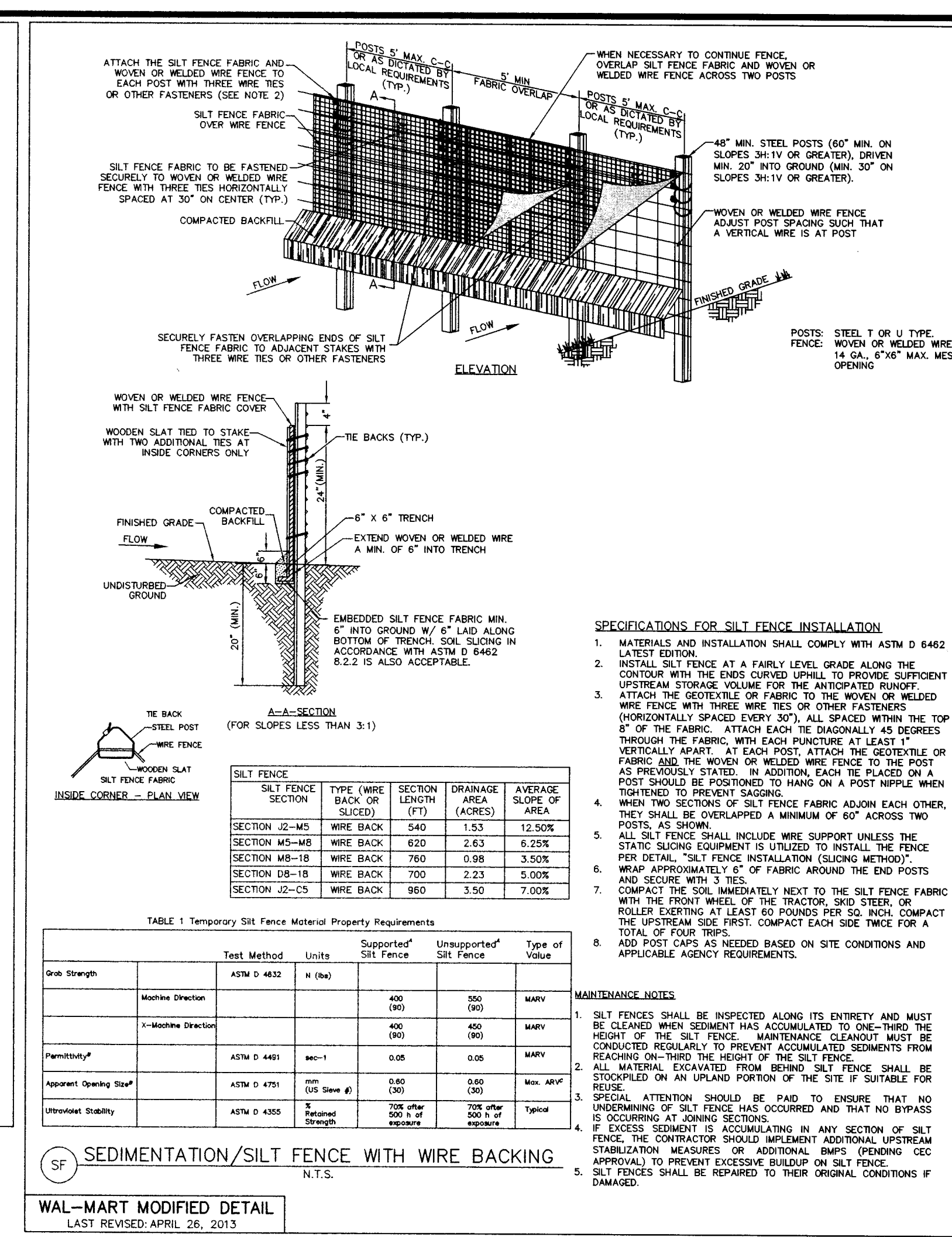
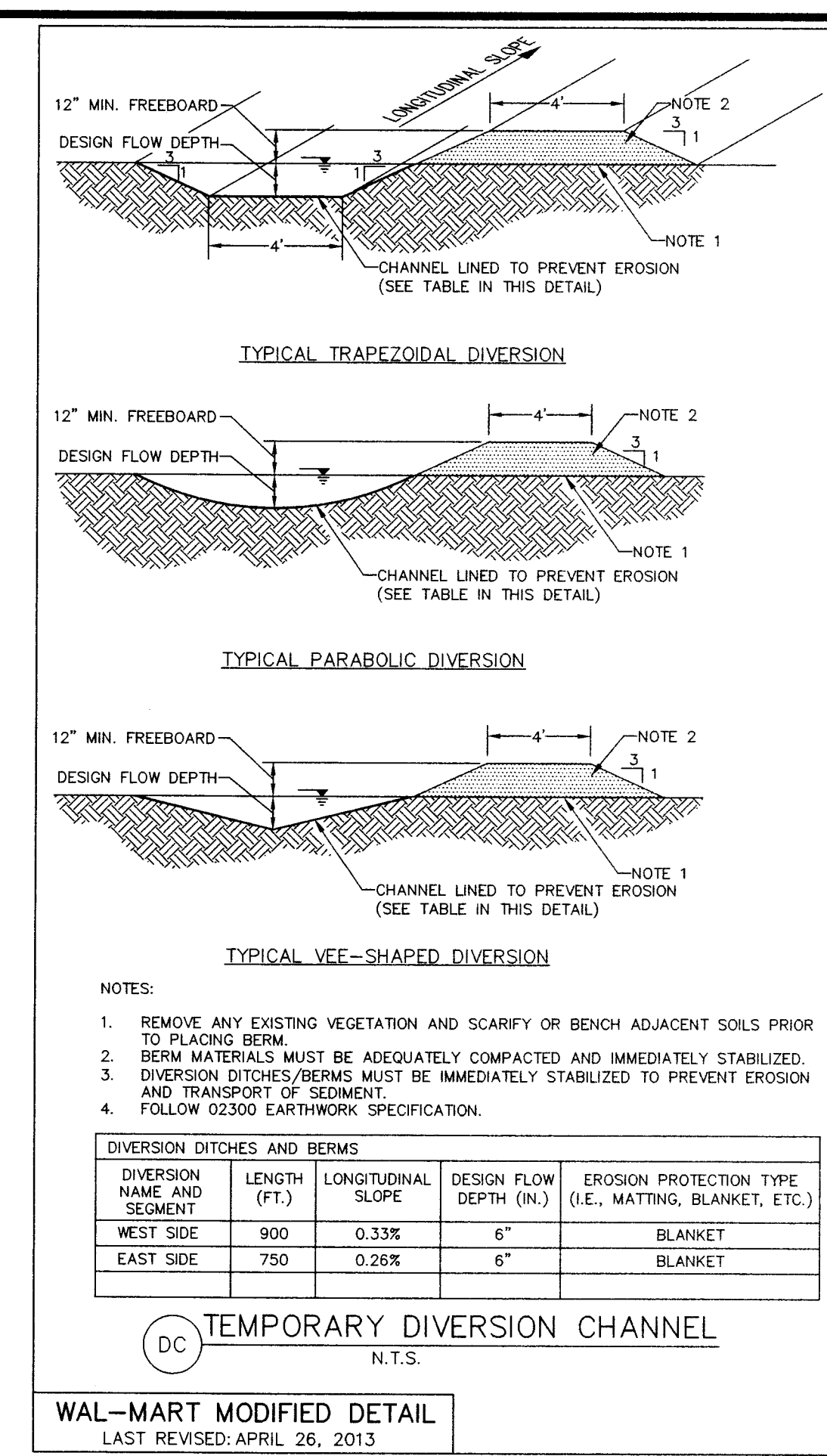
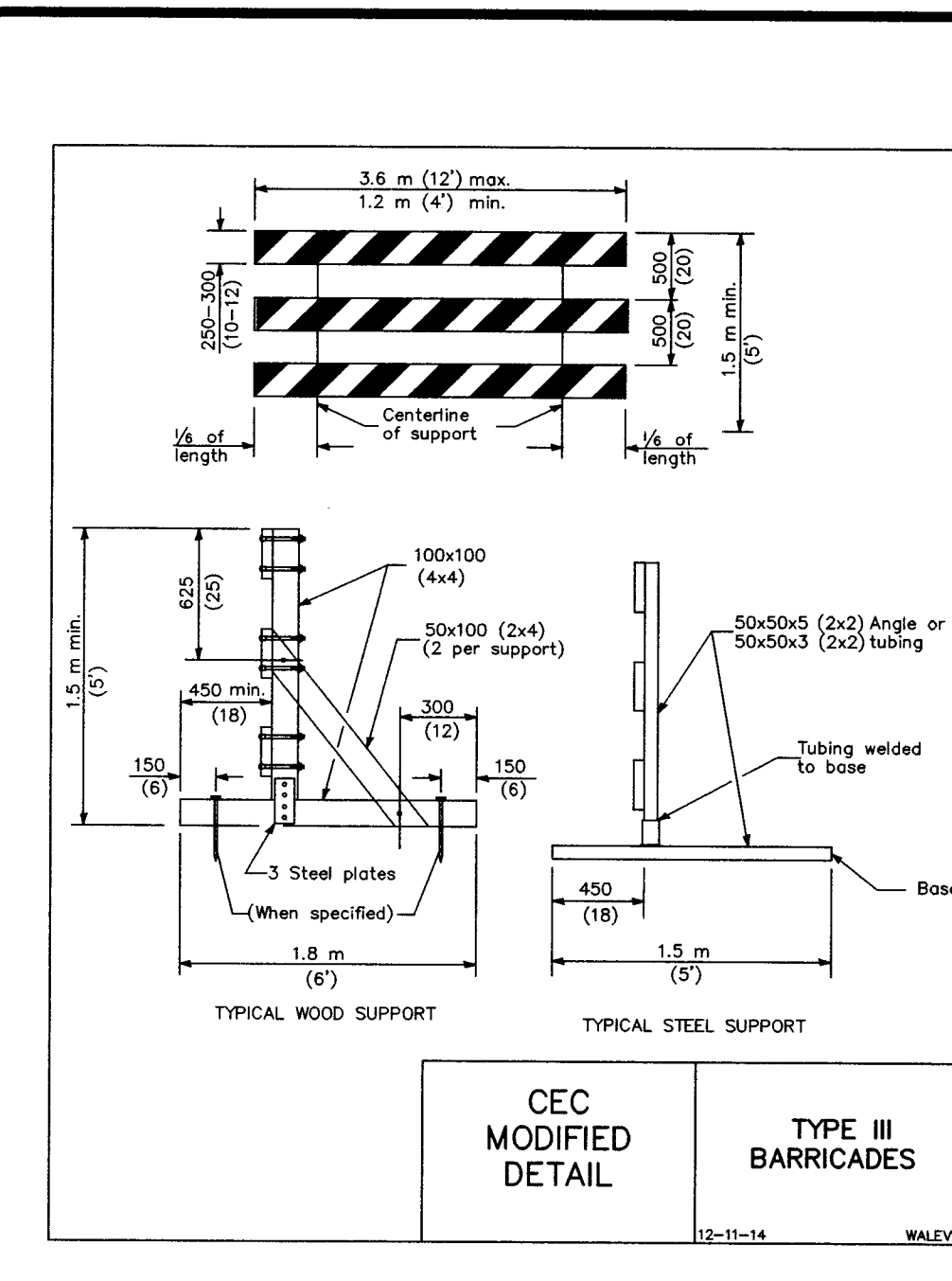
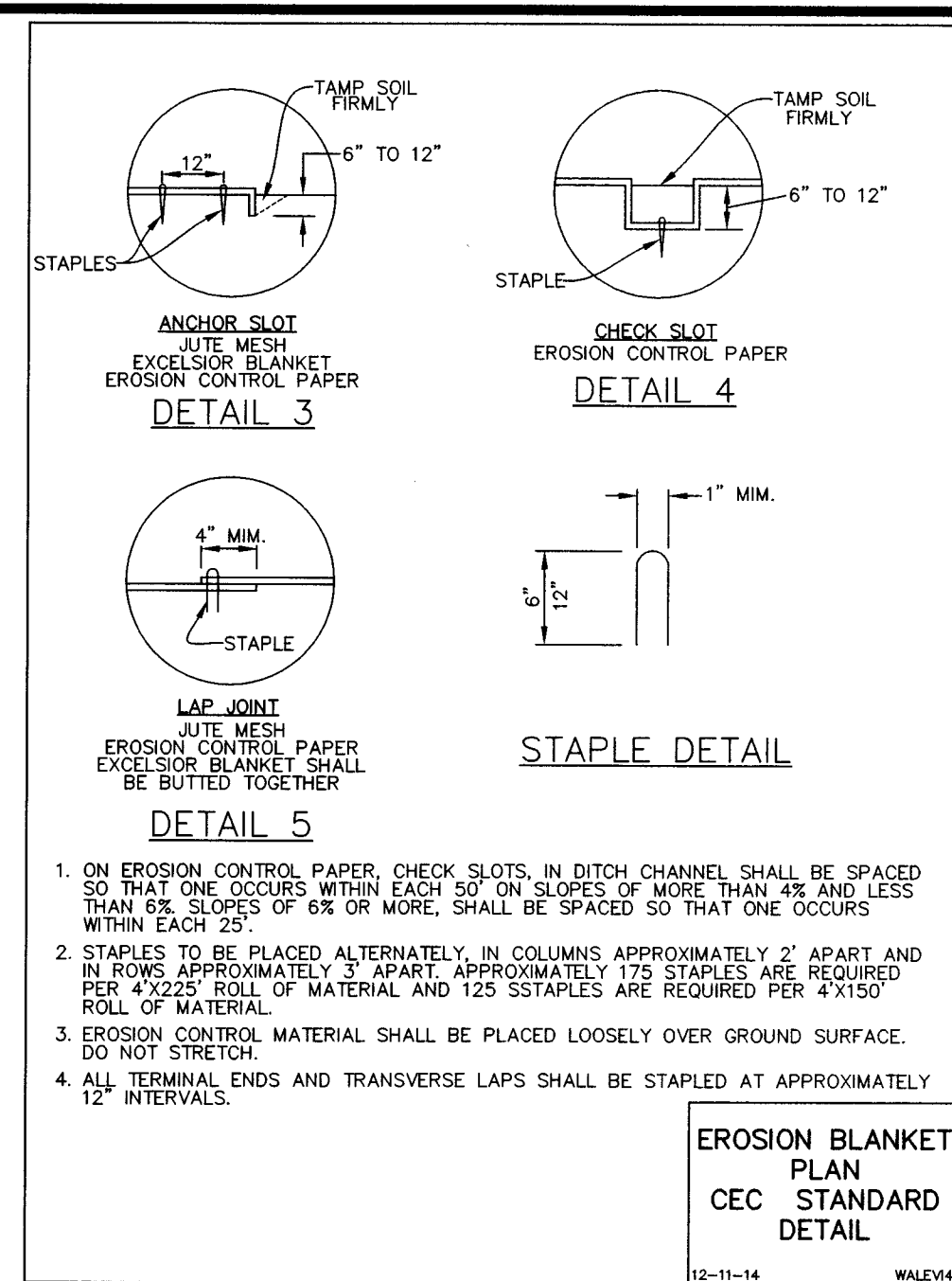
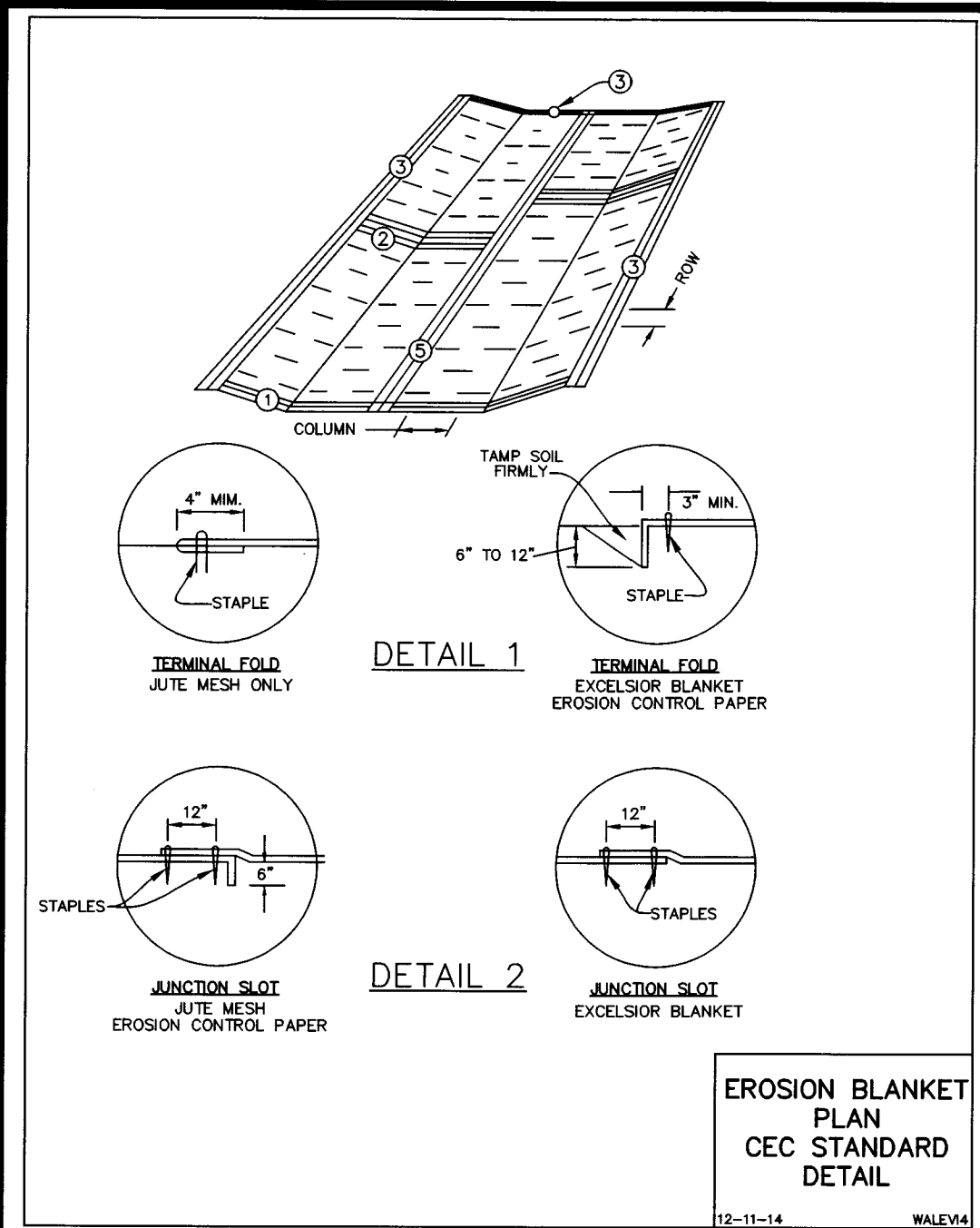
PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
EROSION AND SEDIMENTATION CONTROL DETAILS

PROJ. MGR.: ITR
PROJ. ASSOC.: BAM
DRAWN BY: MH
DATE: 11-20-14
SCALE: N.T.S.

SHEET
7 OF 37
WALEV14 120866

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800 Woodlands Parkway, Warren Hills, IL 60081 | PH: 630.474.5550 | FAX: 630.474.0088 | manhard.com
Construction Managers • Environmental Scientists • Landscape Architects • Planners



SIZING FOR FLOW AT CULVERT PIPE OUTLETS

PIPE SIZE D	AVERAGE RIPRAP DIAMETER	APRON WIDTH W	APRON LENGTH L	THICKNESS T
8in.	3in.	2 to 3 ft.	5 to 7 ft.	5"
12in.	5in.	3 to 4 ft.	6 to 12 ft.	8"
18in.	8in.	4 to 6 ft.	8 to 18 ft.	16"
24in.	10in.	6 to 8 ft.	12 to 22 ft.	16"
30in.	12in.	8 to 10 ft.	14 to 28 ft.	18"
36in.	14in.	10 to 12 ft.	16 to 32 ft.	22"
48in.	18in.	14 to 16 ft.	20 to 36 ft.	26"

NOTE:
1. VALUES TAKEN FROM INDIANA STORM WATER QUALITY MANUAL CHAPTER 7, OUTLET PROTECTION AND GRADE STABILIZATION, TABLE 1.

STONE RIP RAP DETAIL
12-11-14 WALEV4

DEVELOPER/OWNER:
WAL-MART REAL ESTATE BUSINESS TRUST
MAIL STOP 5570
2001 SE 10TH STREET
BENTONVILLE, AR 72716-5570
479-204-1195

SITE OPERATOR/GENERAL CONTRACTOR:

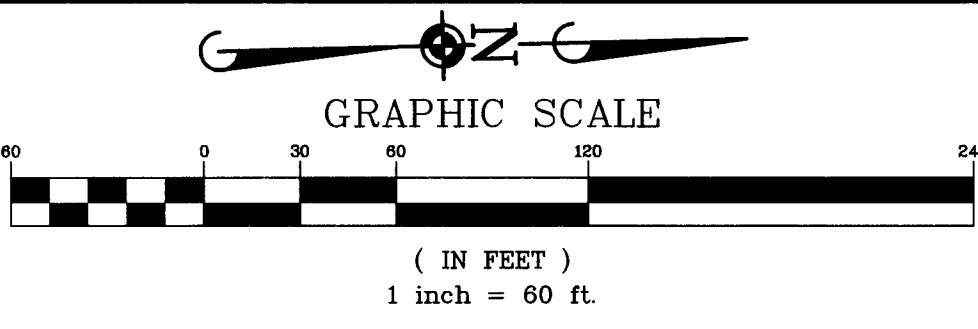
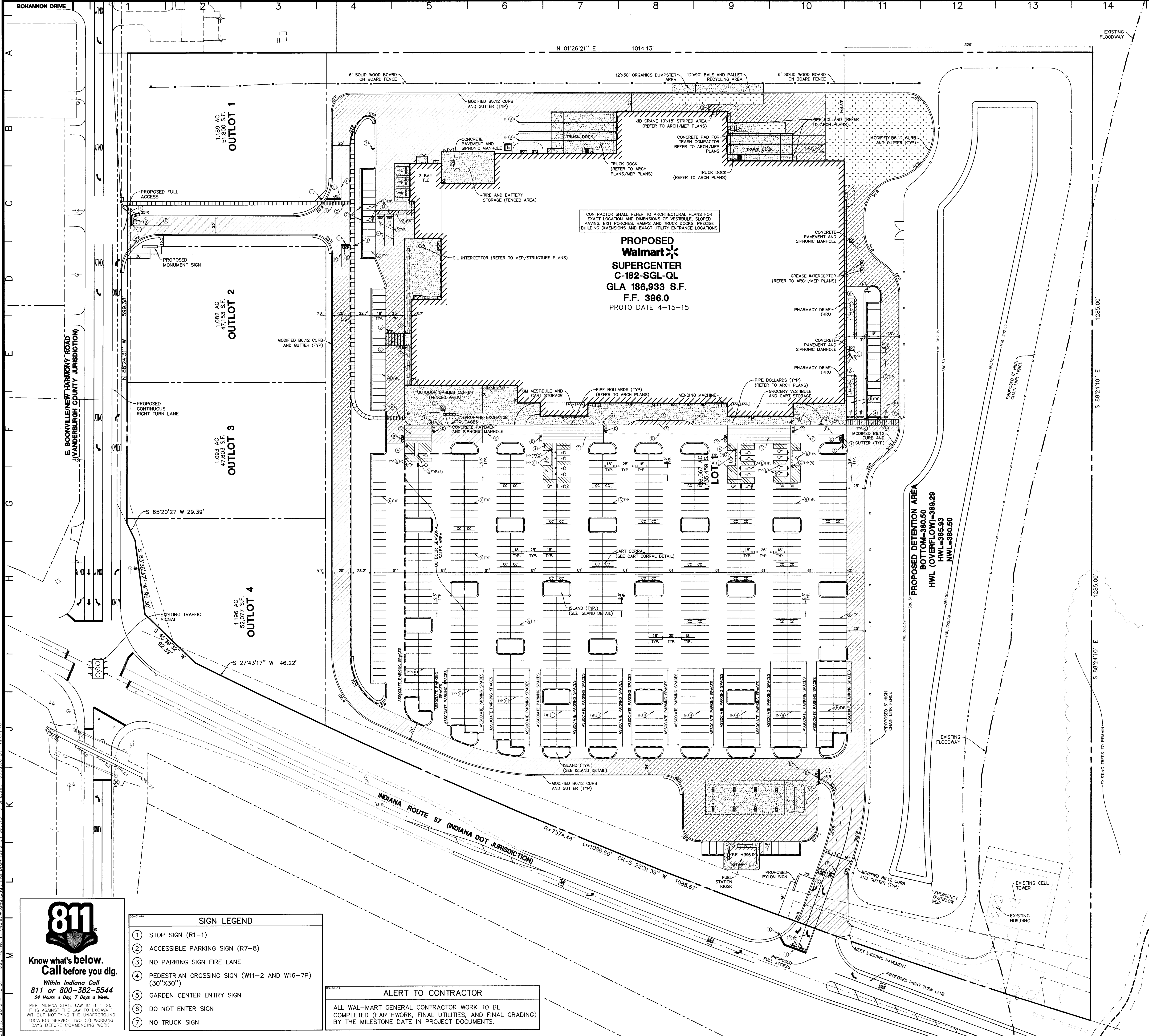
SUPERINTENDENT:

IMPORTANT:
CC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

Manhard CONSULTING LTD.
 500 E. LeFlore Drive, Bentonville, AR 72716-5500
 Phone: 479-254-1100 Fax: 479-254-1101
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PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
EROSION AND SEDIMENTATION CONTROL DETAILS

PROJ. MGR.: TTR
 PROJ. ASSOC.: BAM
 DRAWN BY: MH
 DATE: 11-20-14
 SCALE: N.T.S.
 SHEET
8 OF 37
 WALEV4 120866



SITE DATA	
LOT 1 WAL-MART	26.24 ACRES
OUTLOT 1	1.18 ACRES
OUTLOT 2	1.09 ACRES
OUTLOT 3	1.10 ACRES
OUTLOT 4	1.20 ACRES
GROSS LAND AREA	30.81 ACRES
PARKING DATA	
WAL-MART SUPERCENTER BUILDING	186,933 SF
STANDARD SPACES	735 SPACES
ASSOCIATE PARKING PROVIDED	189 SPACES
ACCESSIBLE SPACES	23 SPACES
CART CORALS	10 (36 SPACES)
TOTAL PARKING PROVIDED	758 SPACES
PARKING RATIO	4.00 SPACES/1000 SF

PAVEMENT MARKING LEGEND	
(A)	6" WIDE FIRE LANE STRIPING PAINTED TRAFFIC RED WITH "NO PARKING FIRE LANE" PAINTED WITH 4" HIGH WHITE LETTERS AT 25' SPACING - SEE DETAIL SHEET 31
(B)	4" YELLOW DIAGONAL AT 45° SPACED 2' O.C. WITH 4" YELLOW BORDER
(C)	PEDESTRIAN CROSSWALK WITH 6" WHITE SOLID STRIPING PARALLEL TO DIRECTION OF TRAFFIC SPACED 2' O.C. WITH 8" WHITE SOLID STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE
(D)	LETTERS AND SYMBOLS WHITE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
(E)	ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
(F)	4" DOUBLE YELLOW SOLID LINE
(G)	4" YELLOW SOLID LINE
(H)	4" WHITE SOLID LINE
(I)	24" WHITE SOLID STOP BAR
(J)	4"x130" LONG YELLOW PAINTED TRUCK ALIGNMENT STRIPES
(K)	4" YELLOW LINE, 6" LONG STRIPE WITH 18" GAP
(L)	6"x6" PAINTED STRIPED AREA CENTERED ON SIPHONIC BREAK STORM MANHOLE. 4" PAINTED SOLID TRAFFIC YELLOW STRIPES 18" O.C. AT 45° - SEE DETAIL SHEET 34

PAVEMENT LEGEND	
	STANDARD DUTY ASPHALT 220 LB/SY (2") HMA TYPE A SURFACE 9.5 MM 275 LB/SY (2.5") HMA TYPE B INTERMEDIATE 19.0 MM 9" COMP. AGG. BASE, NO. 53 8" COMP. AGG. BASE, NO. 53 (FUEL STATION)
	HEAVY DUTY ASPHALT 220 LB/SY (2") HMA TYPE B SURFACE 9.5 MM 385 LB/SY (3.5") HMA TYPE B INTERMEDIATE 19.0 MM 10.5" COMP. AGG. BASE, NO. 53
	HEAVY DUTY CONCRETE 7.5" CONCRETE PAVEMENT W/ 6 X 6 W4 WWF 4" COMPACTED AGGREGATE BASE, TYPE B
	ARCHITECTURAL CONCRETE REFER TO ARCHITECTURAL PLANS FOR DETAILS
	SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" COMPACTED AGGREGATE BASE, NO. 53
	3" WIDE HEAVY DUTY CONCRETE BUFFER 8" CONCRETE PAVEMENT 4" COMPACTED AGGREGATE BASE COURSE, NO. 53
	2" WIDE BUFFER FOR CAR OVERHANG 6" COMPACTED AGGREGATE, NO. 53

REFER TO CONCRETE JOINT DETAILS ON DETAIL SHEET X

- SITE PLAN NOTES**
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS ARE TO RECEIVE CLEAR ACCESS FOR TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SEE 02900 SPECIFICATION.
 - ALL CURBED RADII ARE TO BE 3' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 5'.
 - ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB OR BUILDING FOUNDATION UNLESS OTHERWISE NOTED.
 - EXISTING STRUCTURES INFORMATION CURRENT AT THE DATE OF THIS DRAWING, EXCEPT WHERE SHOWN OTHERWISE, ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 - SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY A LAND SURVEYOR.
 - TOTAL LAND AREA IS 30.81± ACRES.
 - NO WETLANDS WERE PRESENT ON THIS SITE AS INDICATED BY THE LETTER FROM THE U.S. ARMY CORP OF ENGINEERS LETTER DATED DECEMBER 12, 2014.
 - THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SITE SPECIFIC SPECIFICATION.
 - PYLON SIGNS SHALL BE CONSTRUCTED BY OTHERS.
 - REFER TO ARCH. PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
 - SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
 - DEPRESS CURB AND GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
 - THE CONTRACTOR SHALL CONTACT INDIANA 811 (1-800-382-5544) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
 - ALL ROADWAY AND PARKING LOT IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF INDIANA, LATEST EDITION.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMP AND TRUCK DOCKS. PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.

PROPOSED Walmart SUPERCENTER C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0
PROTO DATE 4-15-15

SIGN LEGEND	
	1 STOP SIGN (R1-1)
	2 ACCESSIBLE PARKING SIGN (R7-8)
	3 NO PARKING SIGN FIRE LANE
	4 PEDESTRIAN CROSSING SIGN (W11-2 AND W16-7P) (30"x30")
	5 GARDEN CENTER ENTRY SIGN
	6 DO NOT ENTER SIGN
	7 NO TRUCK SIGN

ALERT TO CONTRACTOR

ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

811
Know what's below.
Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week

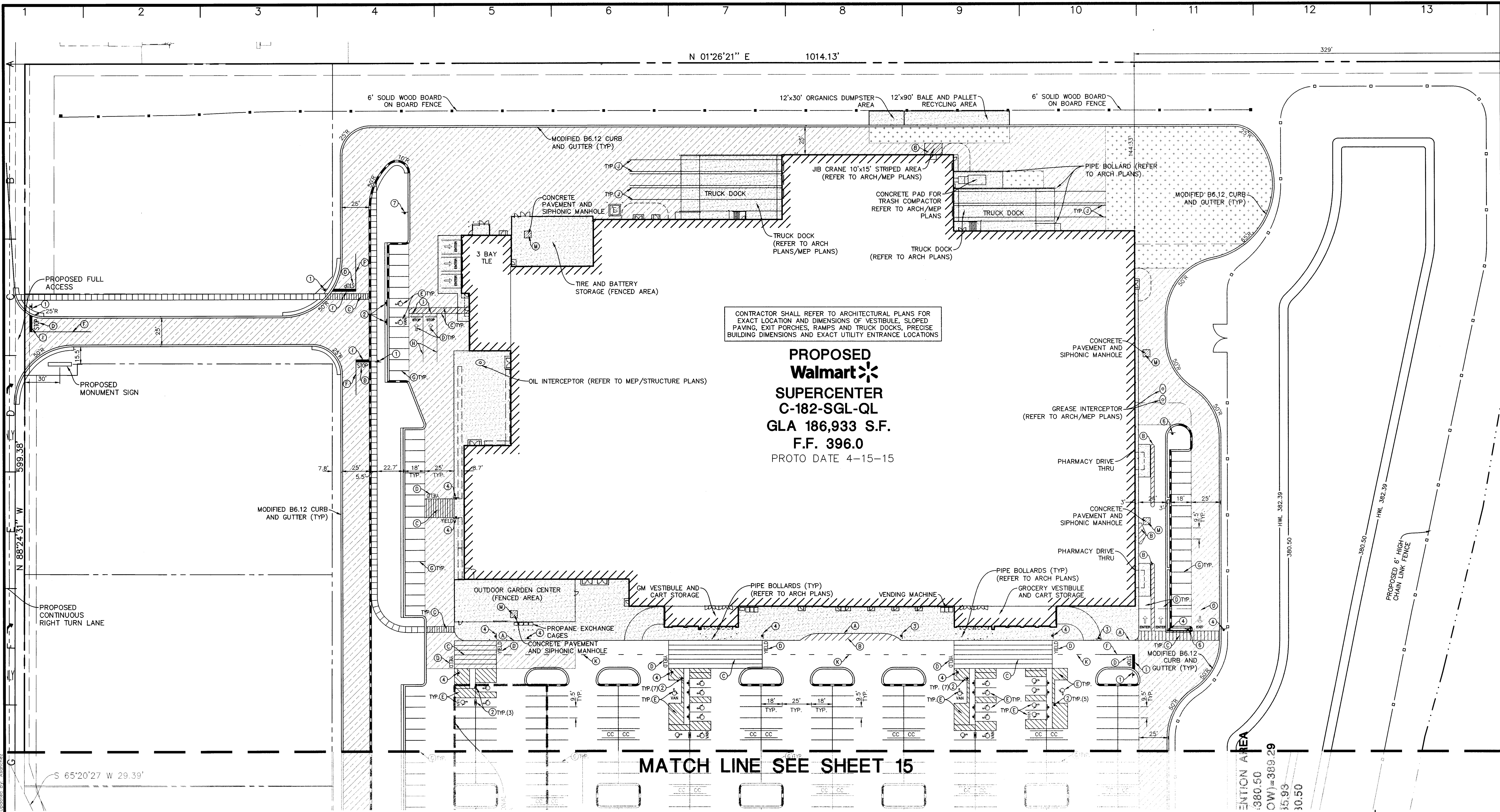
PER INDIANA STATE LAW (I.C. 8-16-11) IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

Manhard CONSULTING LTD.
800 Woodlands Parkway, Vernon Hills, IL 60061 ph:847.634.8550 fx:847.634.0095 manhard.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers • Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROJ. NO.: TTR
PROJ. ASSOC.: BAM
DRAWN BY: MH
DATE: 11-20-14
SCALE: 1"=60'

SHEET 13 OF 37
WALEV4 120866

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
OVERALL SITE DIMENSIONAL AND PAVING PLAN

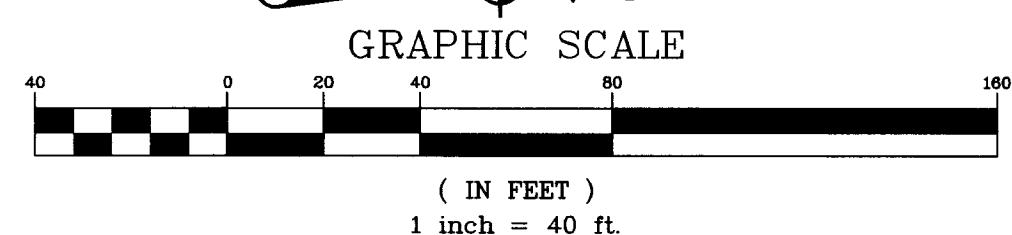


CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMP AND TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS

SIGN LEGEND	
1	STOP SIGN (R1-1)
2	ACCESSIBLE PARKING SIGN (R7-8)
3	NO PARKING SIGN FIRE LANE
4	PEDESTRIAN CROSSING SIGN (W11-2 AND W16-7P) (30"x30")
5	GARDEN CENTER ENTRY SIGN
6	DO NOT ENTER SIGN
7	NO TRUCK SIGN

PAVEMENT LEGEND	
	STANDARD DUTY ASPHALT 220 LB/SY (2") HMA TYPE A SURFACE 9.5 MM 275 LB/SY (2.5") HMA TYPE A INTERMEDIATE 19.0 MM 9" COMP. AGG. BASE, NO. 53
	HEAVY DUTY ASPHALT 220 LB/SY (2") HMA TYPE B SURFACE 9.5 MM 385 LB/SY (3.5") HMA TYPE B INTERMEDIATE 19.0 MM 10.5" COMP. AGG. BASE, NO. 53
	HEAVY DUTY CONCRETE 7.5" CONCRETE PAVEMENT W/ 6 X 6 W1.4 WWF 4" COMPACTED AGGREGATE BASE, TYPE B
	ARCHITECTURAL CONCRETE REFER TO ARCHITECTURAL PLANS FOR DETAILS
	SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" COMPACTED AGGREGATE BASE, NO. 53
	3" WIDE HEAVY DUTY CONCRETE BUFFER 8" CONCRETE PAVEMENT 6" COMPACTED AGGREGATE BASE COURSE, NO. 53
	2" WIDE BUFFER FOR CAR OVERHANG 6" COMPACTED AGGREGATE, NO. 53
REFER TO CONCRETE JOINT DETAILS ON DETAIL SHEET X	

PAVEMENT MARKING LEGEND	
A	6" WIDE FIRE LANE STRIPING PAINTED TRAFFIC RED WITH "NO PARKING FIRE LANE" PAINTED WITH 4" HIGH WHITE LETTERS AT 25' SPACING-SEE DETAIL SHEET 31
B	4" YELLOW DIAGONAL AT 45° SPACED 2' O.C. WITH 4" YELLOW BORDER
C	PEDESTRIAN CROSSWALK WITH 6" WHITE SOLID STRIPING PARALLEL TO DIRECTION OF TRAFFIC SPACED 2' O.C. WITH 8" WHITE SOLID STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE
D	LETTERS AND SYMBOLS WHITE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
E	ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
F	4" DOUBLE YELLOW SOLID LINE
G	4" YELLOW SOLID LINE
H	4" WHITE SOLID LINE
I	24" WHITE SOLID STOP BAR
J	4"x130" LONG YELLOW PAINTED TRUCK ALIGNMENT STRIPES
K	4" YELLOW LINE, 6" LONG STRIPE WITH 18" GAP
L	6" WHITE SOLID LINE
M	6"x6" PAINTED STRIPED AREA CENTERED ON SIPHONIC BREAK STORM MANHOLE. 4" PAINTED SOLID TRAFFIC YELLOW STRIPES 18" O.C. AT 45° - SEE DETAIL SHEET 34



SITE DATA	
LOT 1 WAL-MART	26.24 ACRES
OUTLOT 1	1.18 ACRES
OUTLOT 2	1.09 ACRES
OUTLOT 3	1.10 ACRES
OUTLOT 4	1.20 ACRES
GROSS LAND AREA	30.81 ACRES
PARKING DATA	
WAL-MART SUPERCENTER BUILDING	186,933 SF
STANDARD SPACES	735 SPACES
ASSOCIATE PARKING PROVIDED	189 SPACES
ACCESSIBLE SPACES	23 SPACES
CART CORRALS	10 (36 SPACES)
TOTAL PARKING PROVIDED	758 SPACES
PARKING RATIO	4.00 SPACES/1000 SF

ALERT TO CONTRACTOR

ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

Know what's below. Call before you dig.

Within Indiana Call
811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.

PER INDIANA STAT. LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO FURNISH
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

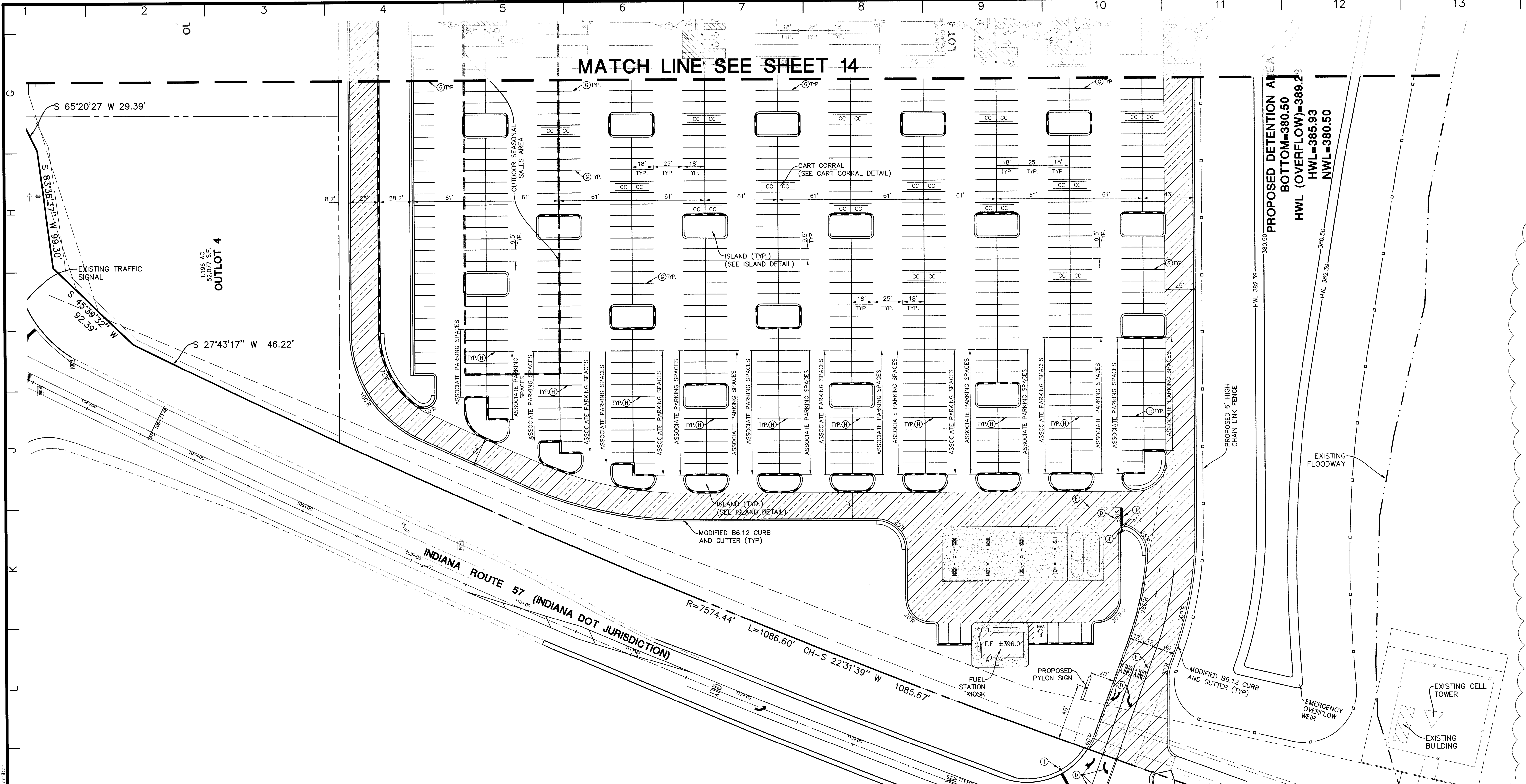
Manhard CONSULTING LTD.

803 Westlands Parkway, Vernon Hills, IL 60061 847.634.5550 847.634.0095 manhard.com
 Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers • Environmental Scientists • Landscape Architects • Planners
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
SITE DIMENSIONAL AND PAVING PLAN - WEST

PROJ. MGR.: TTR
 PROJ. ASSOC.: BAM
 DRAWN BY: MH
 DATE: 11-20-14
 SCALE: 1"=40'

SHEET
14 of 37
 WALEV4 120866



MATCH LINE SEE SHEET 14

ALERT TO CONTRACTOR
 ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

PAVEMENT LEGEND

	STANDARD DUTY ASPHALT 220 LB/SY (2") HMA TYPE A SURFACE 9.5 MM 275 LB/SY (2.5") HMA TYPE A INTERMEDIATE 19.0 MM 9" COMP. AGG. BASE, NO. 53 8" COMP. AGG. BASE, NO. 53 (FUEL STATION)
	HEAVY DUTY ASPHALT 220 LB/SY (2") HMA TYPE B SURFACE 9.5 MM 385 LB/SY (3.5") HMA TYPE B INTERMEDIATE 19.0 MM 10.5" COMP. AGG. BASE, NO. 53
	HEAVY DUTY CONCRETE 7.5" CONCRETE PAVEMENT W/ 6 X 6 W1.4 WWP 4" COMPACTED AGGREGATE BASE, TYPE B
	ARCHITECTURAL CONCRETE REFER TO ARCHITECTURAL PLANS FOR DETAILS
	SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" COMPACTED AGGREGATE BASE, NO. 53
	3" WIDE HEAVY DUTY CONCRETE BUFFER 8" CONCRETE PAVEMENT 4" COMPACTED AGGREGATE BASE COURSE, NO. 53
	2' WIDE BUFFER FOR CAR OVERHANG 6" COMPACTED AGGREGATE, NO. 53

REFER TO CONCRETE JOINT DETAILS ON DETAIL SHEET X

PAVEMENT MARKING LEGEND

(A)	6" WIDE FIRE LANE STRIPING PAINTED TRAFFIC RED WITH "NO PARKING FIRE LANE" PAINTED WITH 4" HIGH WHITE LETTERS AT 25' SPACING-SEE DETAIL SHEET 31
(B)	4" YELLOW DIAGONAL AT 45° SPACED 2' O.C. WITH 4" YELLOW BORDER
(C)	PEDESTRIAN CROSSWALK WITH 6" WHITE SOLID STRIPING PARALLEL TO DIRECTION OF TRAFFIC SPACED 2' O.C. WITH 8" WHITE SOLID STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE
(D)	LETTERS AND SYMBOLS WHITE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
(E)	ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS - SEE DETAIL SHEET 31
(F)	4" DOUBLE YELLOW SOLID LINE
(G)	4" YELLOW SOLID LINE
(H)	4" WHITE SOLID LINE
(I)	24" WHITE SOLID STOP BAR
(J)	4"x130" LONG YELLOW PAINTED TRUCK ALIGNMENT STRIPES
(K)	4" YELLOW LINE, 6" LONG STRIPE WITH 18' GAP
(L)	6"x6" PAINTED STRIPED AREA CENTERED ON SIPHONIC BREAK STORM MANHOLE. 4" PAINTED SOLID TRAFFIC YELLOW STRIPES 18" O.C. AT 45° - SEE DETAIL SHEET 34

SITE DATA

LOT 1 WAL-MART	26.24 ACRES
OUTLOT 1	1.18 ACRES
OUTLOT 2	1.09 ACRES
OUTLOT 3	1.10 ACRES
OUTLOT 4	1.20 ACRES
GROSS LAND AREA	30.81 ACRES

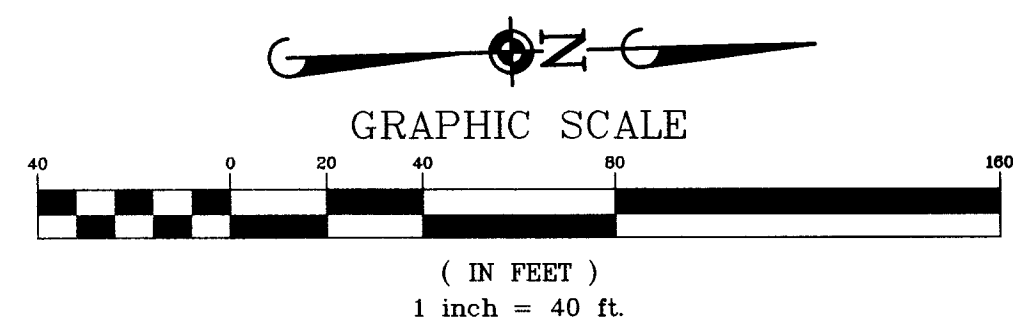
PARKING DATA

WAL-MART SUPERCENTER BUILDING	186,933 SF
STANDARD SPACES	735 SPACES
ASSOCIATE PARKING PROVIDED	189 SPACES
ACCESSIBLE SPACES	23 SPACES
CART CORRALS	10 (36 SPACES)
TOTAL PARKING PROVIDED	758 SPACES
PARKING RATIO	4.00 SPACES/1000 SF

SIGN LEGEND

(1)	STOP SIGN (R1-1)
(2)	ACCESSIBLE PARKING SIGN (R7-8)
(3)	NO PARKING SIGN FIRE LANE
(4)	PEDESTRIAN CROSSING SIGN (W11-2 AND W16-7P) (30"x30")
(5)	GARDEN CENTER ENTRY SIGN
(6)	DO NOT ENTER SIGN
(7)	NO TRUCK SIGN

811
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 811 or 800-382-5544
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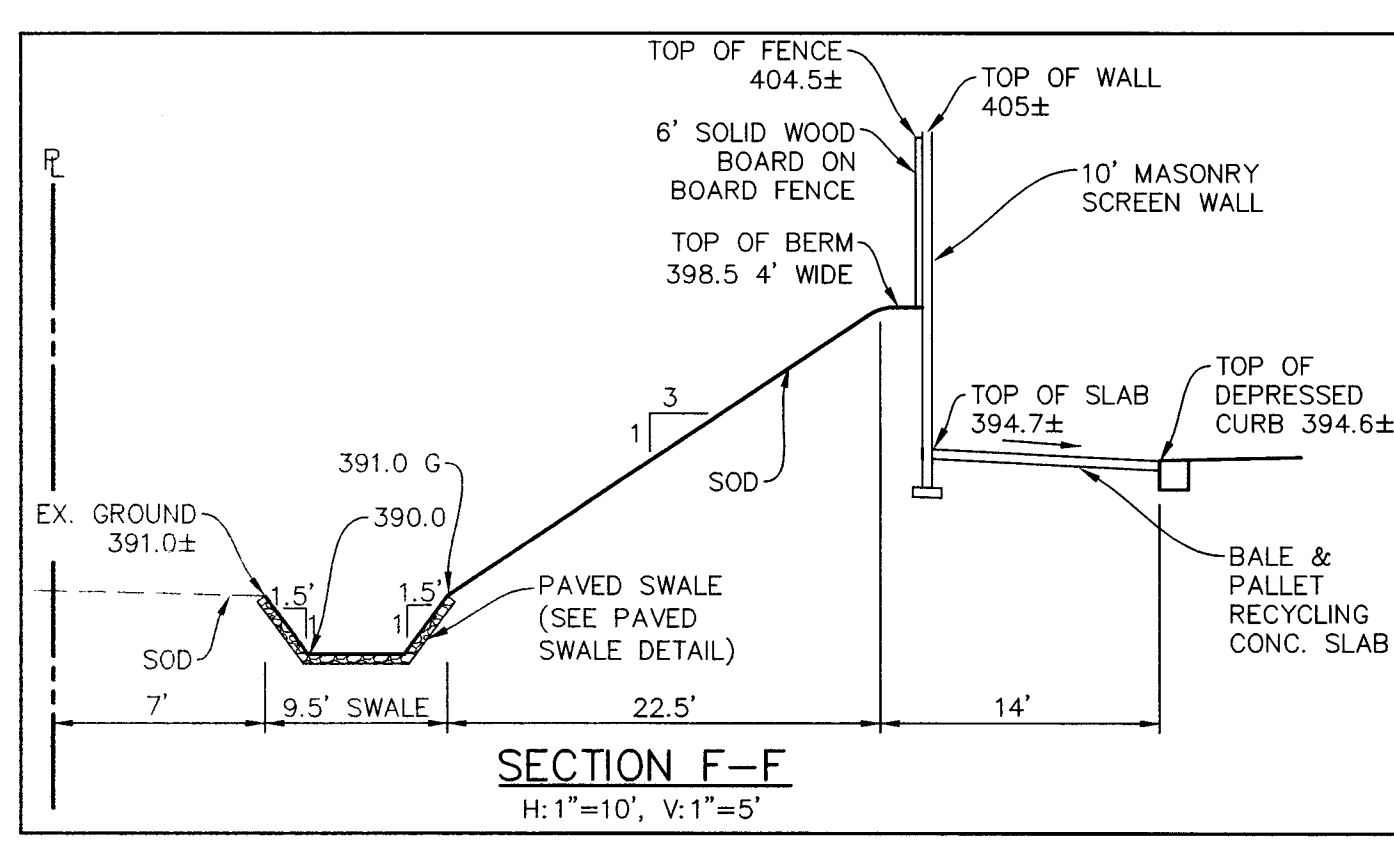
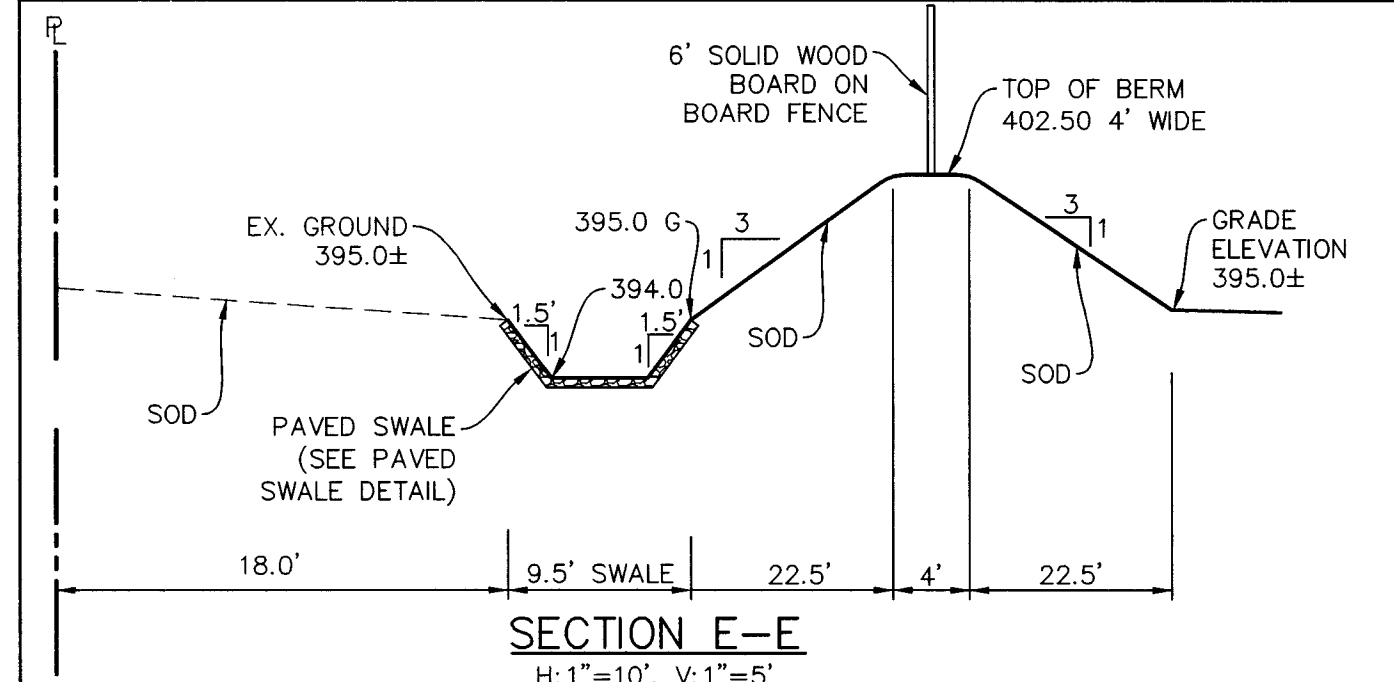
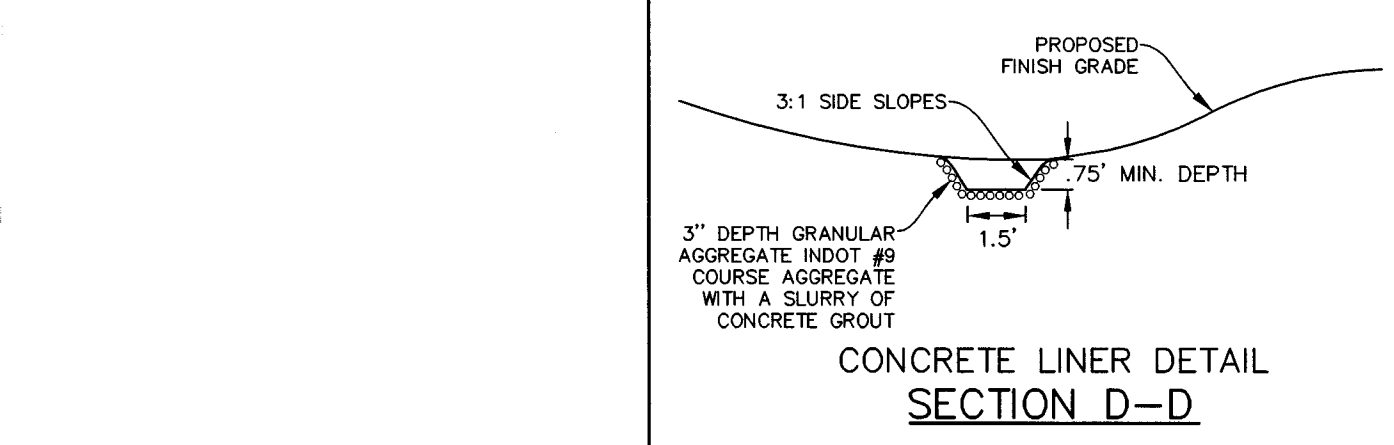
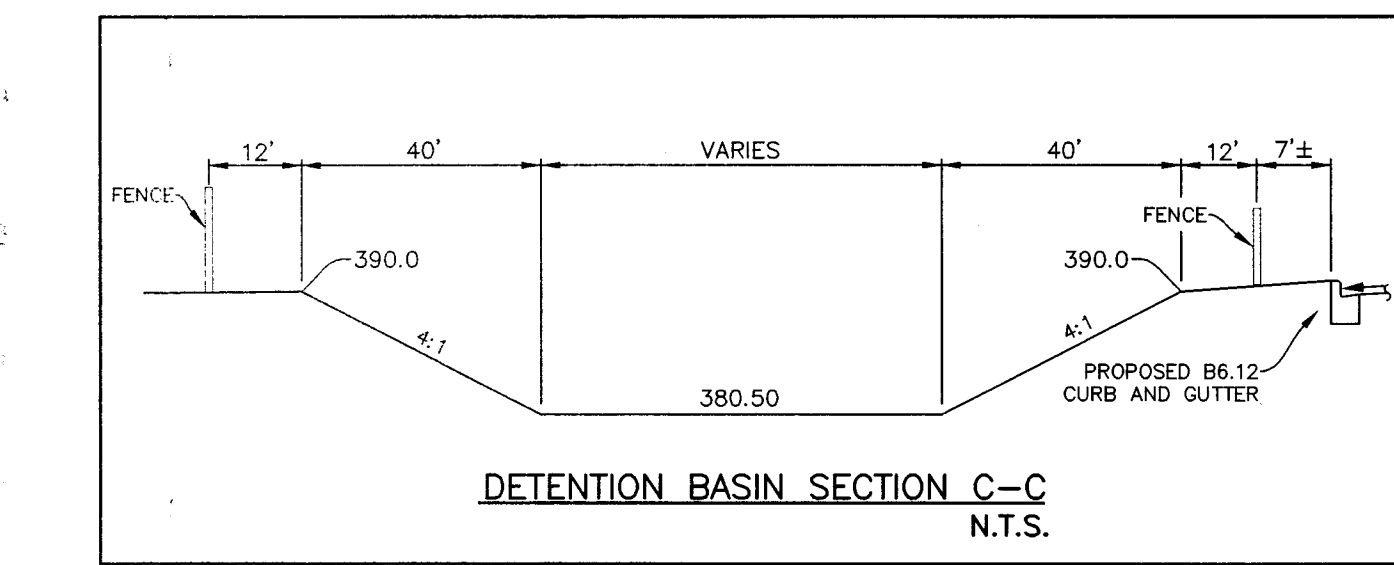
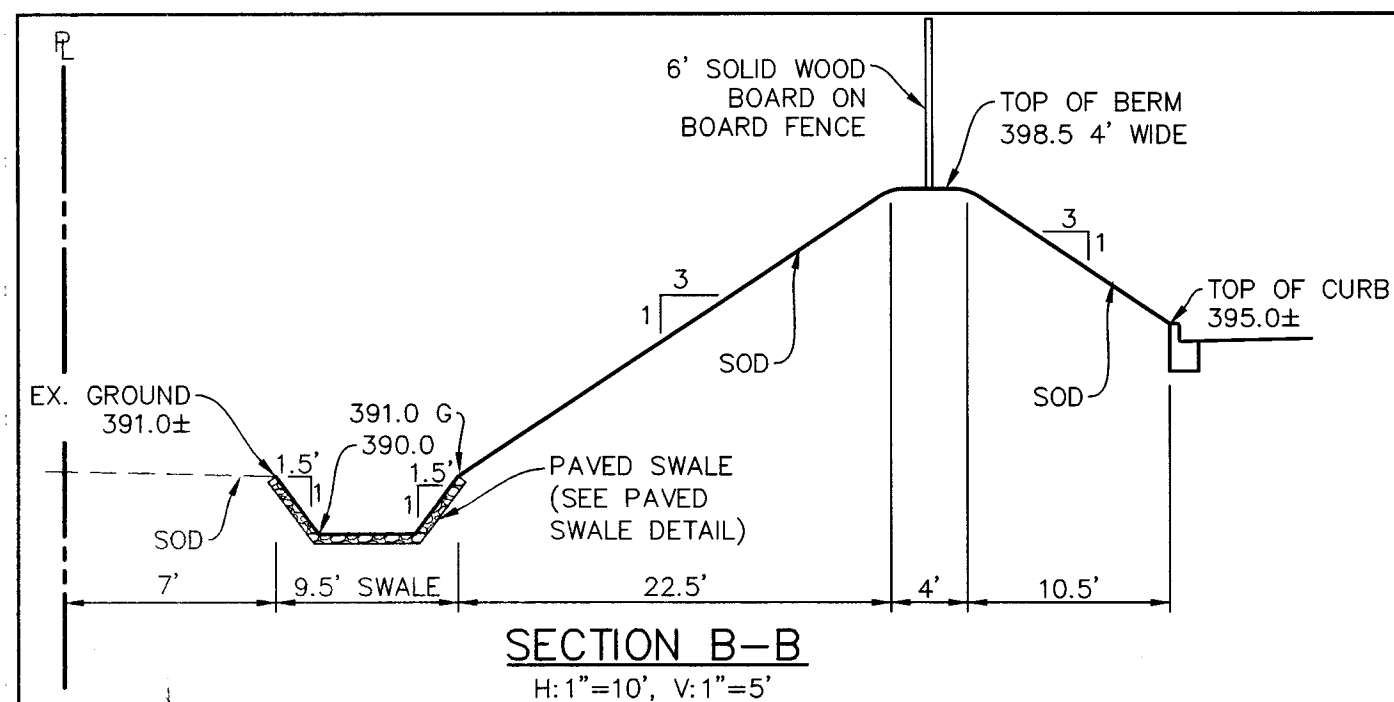
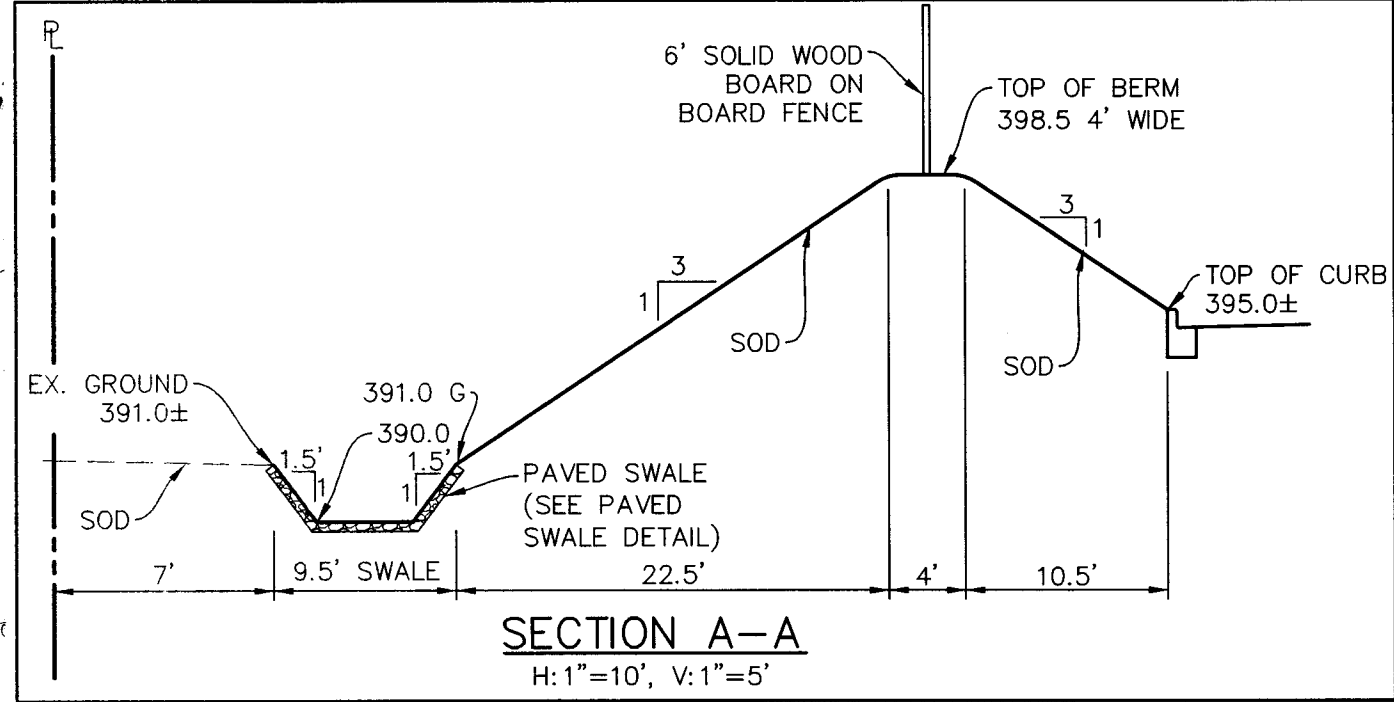
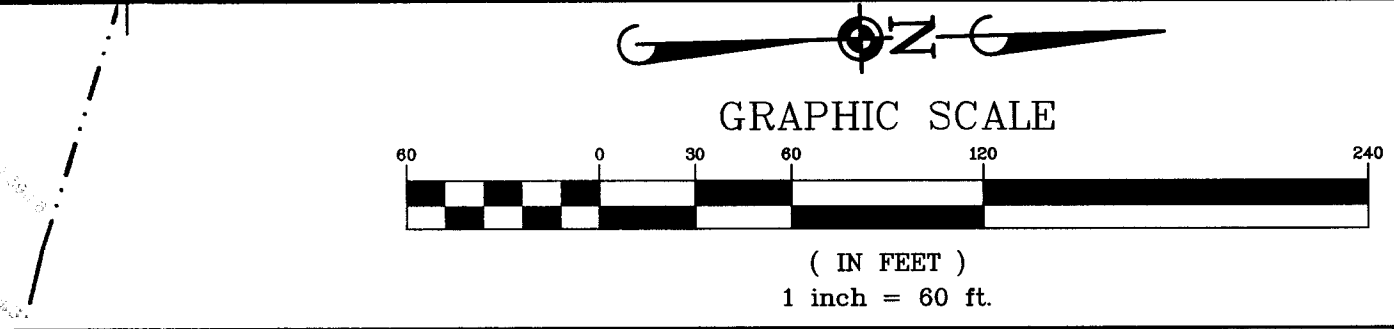
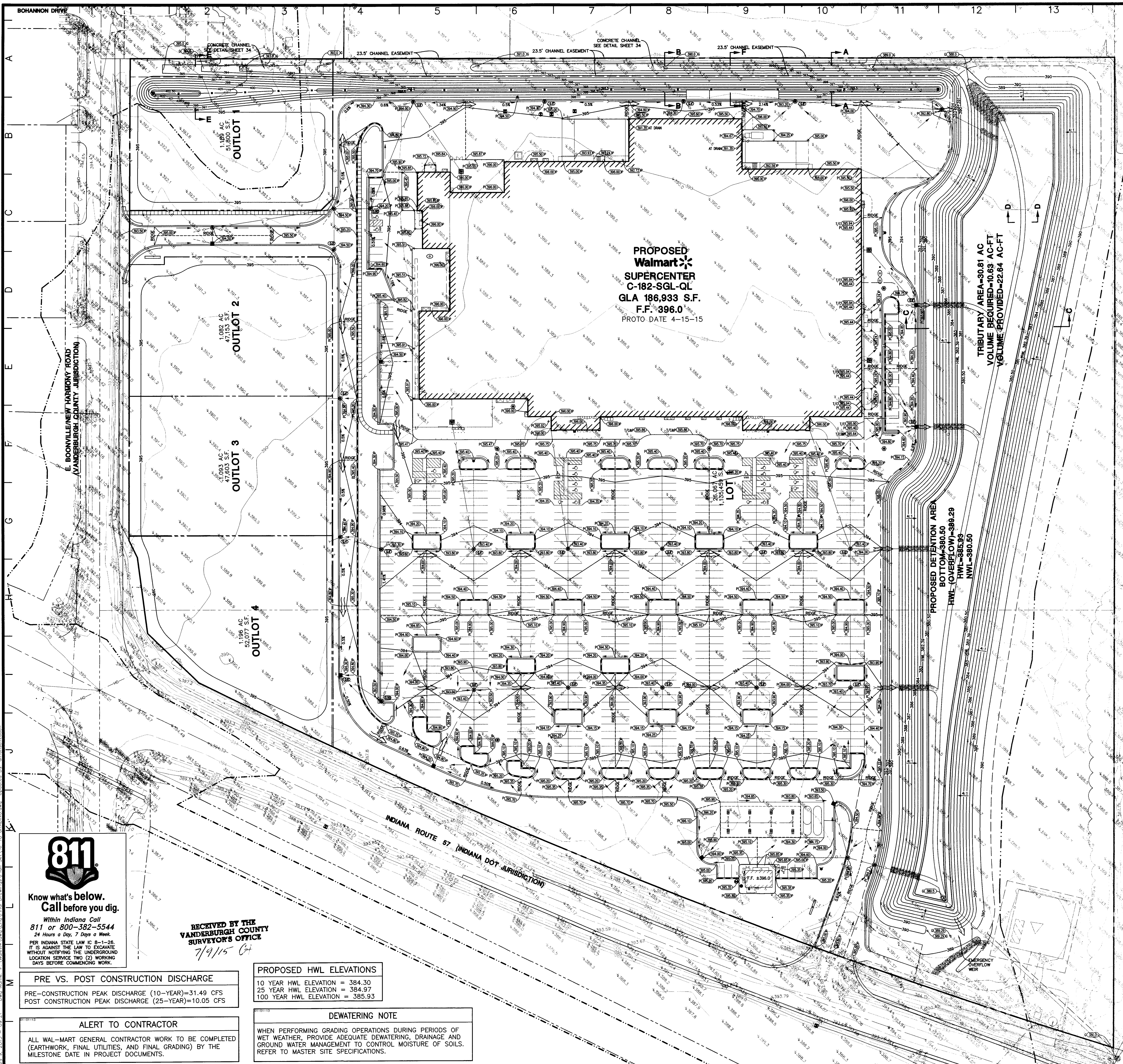


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PROPOSED WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA
 SITE DIMENSIONAL AND PAVING PLAN - EAST

PROJ. MGR.: JTR
 PROJ. ASSOC.: BAM
 DRAWN BY: MH
 DATE: 11-20-14
 SCALE: 1"=40'

SHEET
 15 OF 37
 WALEV14 120866



PROPOSED Walmart SUPERCENTER C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0
 PROTO DATE 4-15-15

TRIBUTARY AREA=30.81 AC
VOLUME REQUIRED=10.63 AC-FT
VOLUME PROVIDED=22.64 AC-FT

PROPOSED DETENTION AREA
BOTTOM=380.50
RWL (OVERFLOW)=389.23
HWL=385.93
NWL=380.50

OUTLOT 1
 1.083 AC
 51,800 S.F.

OUTLOT 2
 1.082 AC
 47,153 S.F.

OUTLOT 3
 1.093 AC
 47,603 S.F.

OUTLOT 4
 1.196 AC
 52,077 S.F.

INDIANA ROUTE 57 (INDIANA DOT JURISDICTION)



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 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

RECEIVED BY THE VANDERBURGH COUNTY SURVEYOR'S OFFICE
 7/9/15

PRE VS. POST CONSTRUCTION DISCHARGE
 PRE-CONSTRUCTION PEAK DISCHARGE (10-YEAR)=31.49 CFS
 POST CONSTRUCTION PEAK DISCHARGE (25-YEAR)=10.05 CFS

PROPOSED HWL ELEVATIONS
 10 YEAR HWL ELEVATION = 384.30
 25 YEAR HWL ELEVATION = 384.97
 100 YEAR HWL ELEVATION = 385.93

ALERT TO CONTRACTOR
 ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

DEWATERING NOTE
 WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.

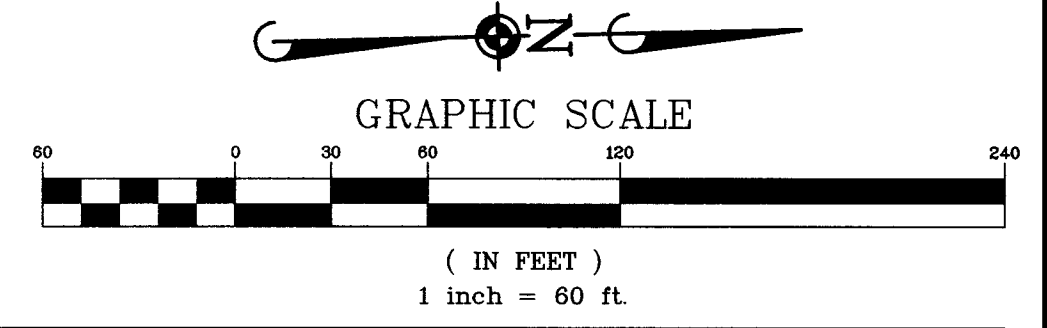
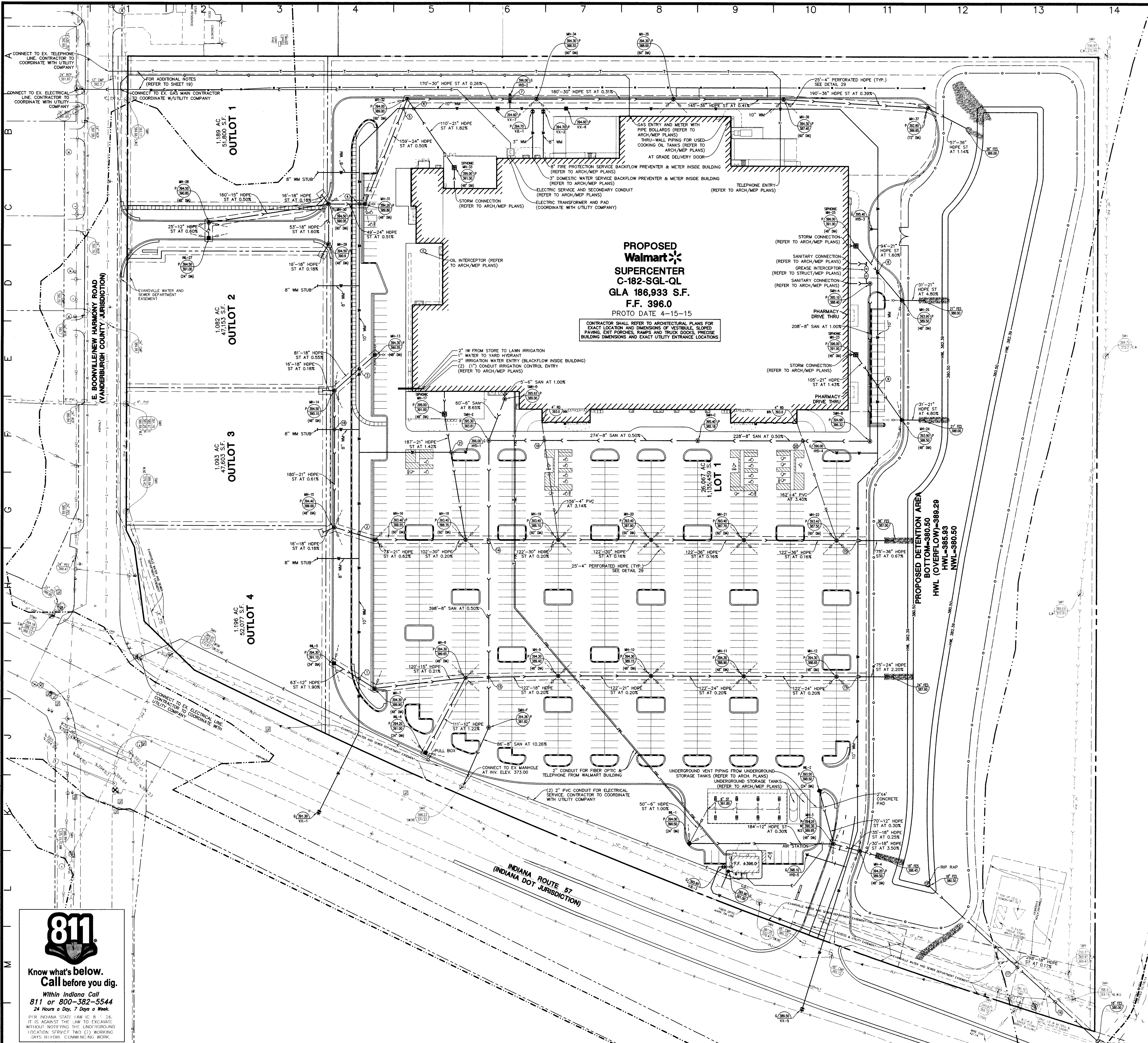
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 Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
OVERALL GRADING PLAN

RECEIVED BY THE VANDERBURGH COUNTY SURVEYOR'S OFFICE
 7/9/2015

PROJ. MGR.: TTR
 PROJ. ASSOC.: BAM
 DRAWN BY: ML
 DATE: 11-20-14
 SCALE: 1"=60'

SHEET 16 OF 37
 WALEV4 120866



UTILITY CROSSINGS

① ST OVER WM B/P ST = 390.30 T/P WM = 388.80	⑦ ST OVER WM B/P ST = 387.50 T/P WM = 386.00	⑬ ST OVER SAN B/P ST = 389.44 T/P SAN = 387.86	⑲ ST OVER SAN B/P ST = 392.22 T/P SAN = 384.84
② ST OVER WM B/P ST = 387.95 T/P WM = 386.45	⑧ ST OVER WM B/P ST = 389.43 T/P WM = 387.93	⑭ ST OVER SAN B/P ST = 387.14 T/P SAN = 383.82	⑳ ST OVER SAN B/P ST = 392.18 T/P SAN = 386.55
③ ST OVER WM B/P ST = 389.17 T/P WM = 387.67	⑨ ST OVER WM B/P ST = 389.44 T/P WM = 387.94	⑮ ST OVER SAN B/P ST = 389.90 T/P SAN = 382.91	㉑ ST OVER WM B/P ST = 389.44 T/P WM = 387.94
④ ST OVER WM B/P ST = 388.92 T/P WM = 387.42	⑩ ST OVER WM B/P ST = 385.86 T/P WM = 384.36	⑯ ST OVER SAN B/P ST = 379.53 T/P SAN = 370.53	
⑤ ST OVER WM B/P ST = 388.20 T/P WM = 386.70	⑪ ST OVER WM B/P ST = 386.89 T/P WM = 385.39	⑰ ST OVER SAN B/P ST = 379.56 T/P SAN = 370.60	
⑥ ST OVER WM B/P ST = 388.44 T/P WM = 386.94	⑫ ST OVER WM B/P ST = 389.17 T/P WM = 387.67	⑱ ST OVER WM B/P ST = 388.95 T/P X = 387.45	

ALERT TO CONTRACTOR

ALL WAL-MART GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

- UTILITY NOTES**
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 - CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE OR ANY INSPECTION.
 - SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
6" PVC SCHEDULE 40
DUCTILE IRON PIPE PER AWWA C150
 - WATER LINES SHALL BE AS FOLLOWS: (ALL WATER MATERIALS MUST BE DOMESTIC)
(PRIVATE) 6" AND LARGER PVC C-900 PER ASTM D 2241
CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
(PUBLIC) 6" AND LARGER DUCTILE IRON P.C.I. 350 PIPE PER AWWA C150
SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (50FT) PER ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
 - MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 - ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
 - ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4"-0" COVER ON ALL WATER LINES.
 - IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
 - UTILITIES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 - TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
 - ALL CONCRETE FOR ENCASUREMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES, EVANSVILLE WATER AND SEWER UTILITY (EWSU) DEPARTMENT WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
 - 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 COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONDITIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
 - CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 - REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 - ALL UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH VANDERBURGH COUNTY DESIGN STANDARDS AND SPECIFICATIONS - CURRENT EDITION, AND THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS - CURRENT EDITION, IN THE EVENT OF CONFLICTING GUIDELINES, THE MORE RESTRICTIVE SHALL GOVERN.
 - CONTRACTOR SHALL CORE AND BOOT ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
 - ALL UTILITY DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
 - EXTERNAL CHIMNEY SEALS ARE REQUIRED ON PROPOSED AND ADJUSTED EXISTING SANITARY MANHOLES.
 - BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL CONTACT INDIANAB11 (811 OR 1-800-382-5544) PRIOR TO ANY WORK TO LOCATE UTILITIES AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
 - ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER OR WATER MAIN LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
 - ALL SANITARY AND STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO FEES.
 - PROVIDE CONCRETE COLLAR AT ALL NEW STRUCTURES IN ASPHALT PAVEMENT, NOT ADJACENT TO CURB. SEE CONCRETE COLLAR DETAIL ON DETAIL SHEET 29.
 - SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
 - ALL STORM MANHOLES IN PAVEMENT SHALL BE OPEN LID UNLESS OTHERWISE NOTED.
 - PROVIDE ANCHOR COUPLINGS ON FIRE HYDRANT LATERALS (NO CONCRETE).
 - MANDREL TESTING IS REQUIRED FOR ALL HDPE PIPES. HDPE PIPES SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE TO VANDERBURGH COUNTY STORMWATER DRAINAGE CONTROL GUIDELINES.

PROPOSED Walmart SUPERCENTER C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0
PROTO DATE 4-15-15

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS AND TRUCK DOCKS. PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.

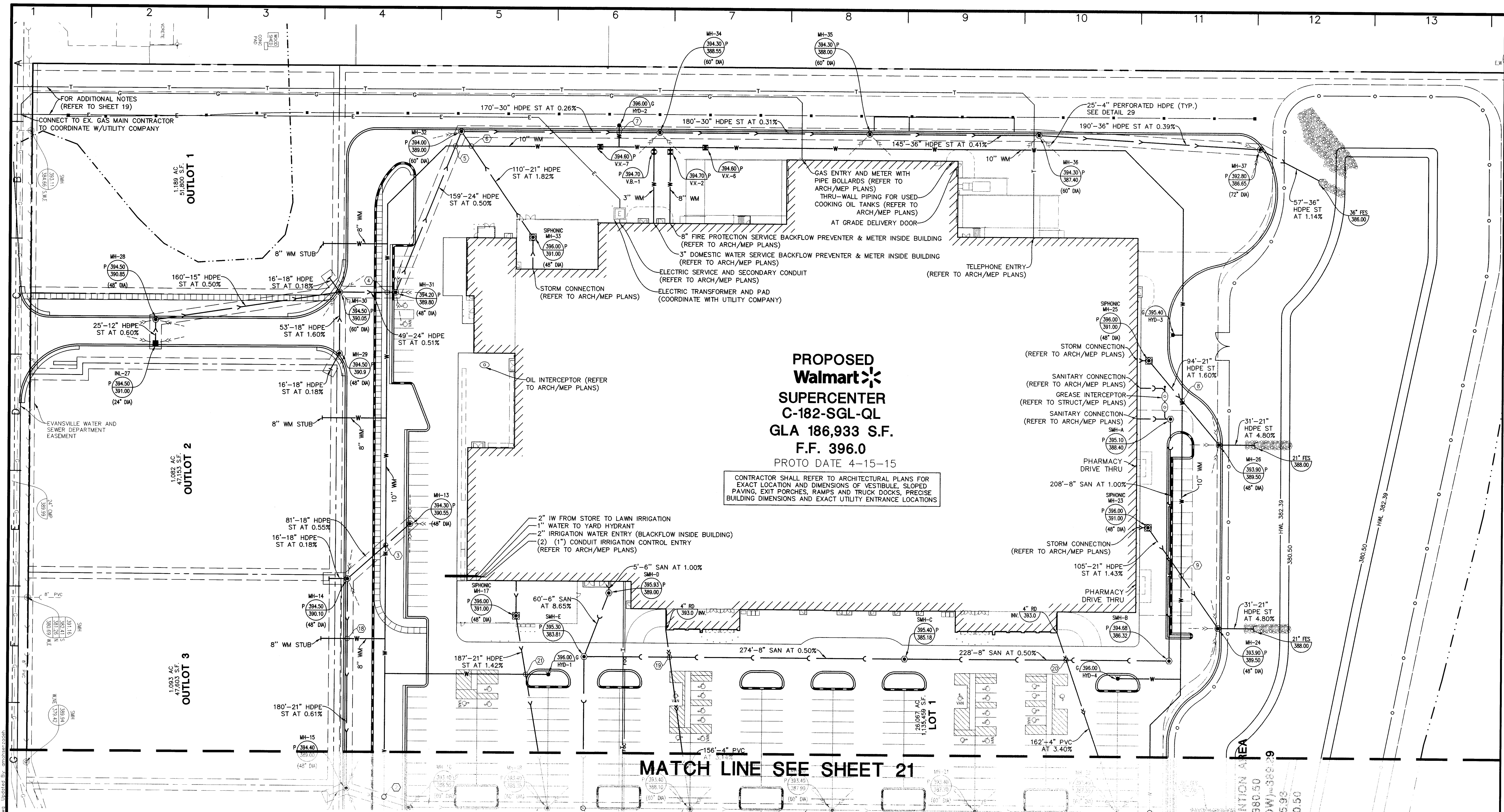
PROPOSED DETENTION AREA
BOTTOM=380.50
HWL (OVERFLOW)=389.29
HWL=385.83
NWL=380.50

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800 Woodlands Parkway, Vernon Hills, IL 60061 | PH: 847.634.1550 | FX: 847.634.0035 | manhard.com
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Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
OVERALL UTILITY PLAN

PROJ. MGR.: TTR
PROJ. ASSOC.: BAM
DRAWN BY: MH
DATE: 11-20-14
SCALE: 1"=60'
SHEET 19 OF 37
WALEV14 120866

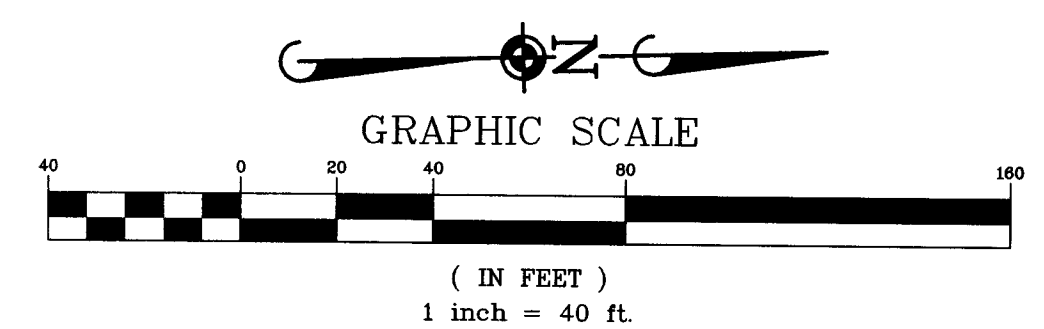
811
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24 Hours a Day, 7 Days a Week
FOR INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



PROPOSED
Walmart
SUPERCENTER
C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0
PROTO DATE 4-15-15

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS AND TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS

MATCH LINE SEE SHEET 21



NO.	DATE	REVISIONS
1		
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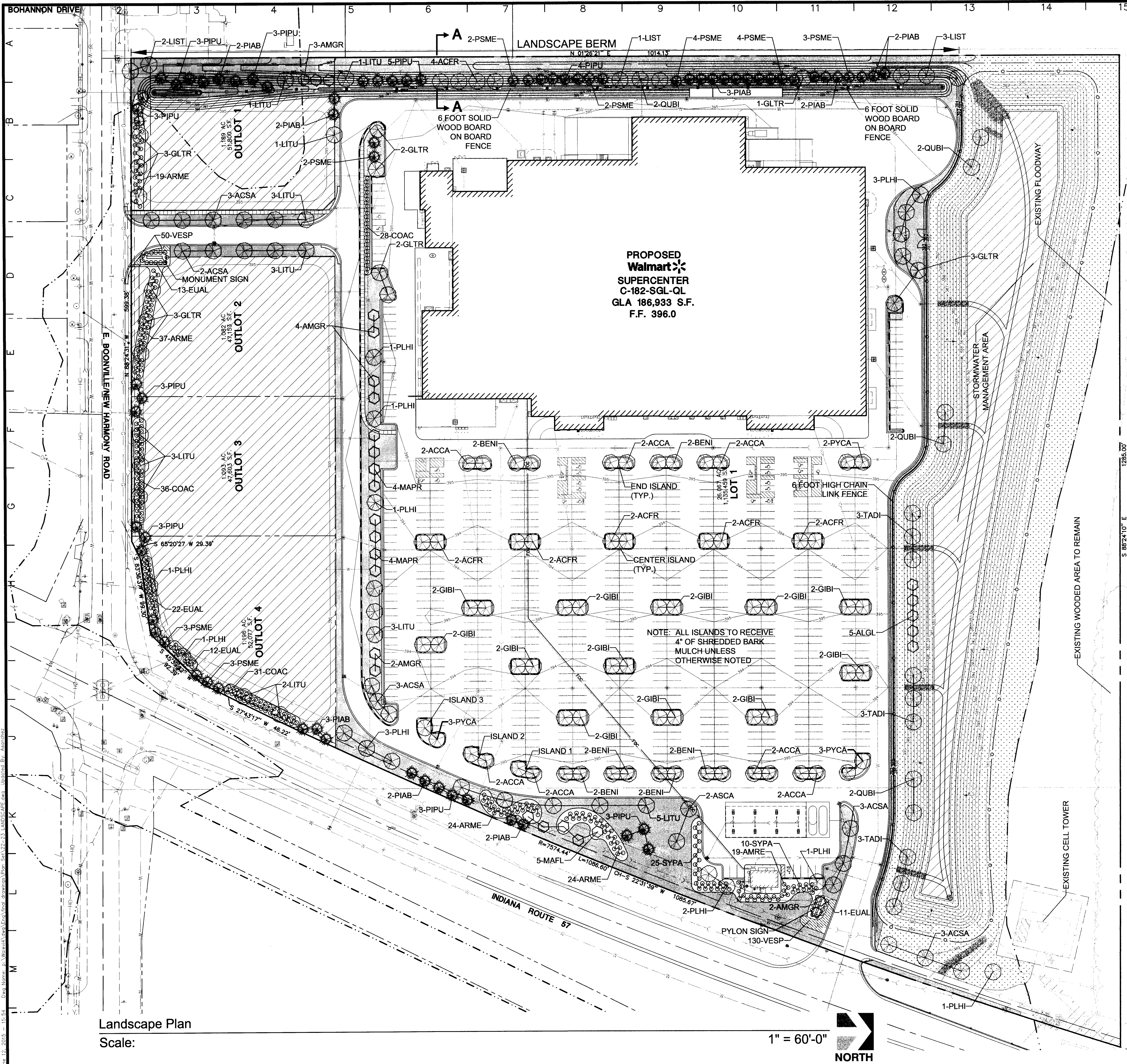
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PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA
UTILITY PLAN - WEST

PROJ. MGR.:	TTR
PROJ. ASSOC.:	RAM
DRAWN BY:	MH
DATE:	11-20-14
SCALE:	1"=40'
SHEET	
20 OF 37	
WALEV4	120866

June 17, 2015 - 14:29 Doc Name: c:\walev4\mch\final\drawings\Prop_Sat\10-21_UTILITY.dwg Modified By: amobas@manhard.com

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PROPOSED
Walmart
SUPERCENTER
C-182-SGL-QL
GLA 186,933 S.F.
F.F. 396.0

SEED MIX R

KENTUCKY 31 FESCUE OR APPROVED EQUAL	95lbs./acre
PERENNIAL RYE GRASS Low endophyte	65lbs./acre
JASPER RED FESCUE OR APPROVED EQUAL	10lbs./acre
	175lbs./acre

MIXTURE D

MATERIAL	APPLICATION RATES
FOWL MANA GRASS	1 oz/oc
WETLAND CAREX SPECIES	3 oz/oc
RICE CUT GRASS	2 oz/oc
BULLRUSH	2 oz/oc
LEPTOCHLOA FASCICULARIS	2 oz/oc
BARNYARD GRASS	2 oz/oc
PRAIRIE WILD RYE	2 oz/oc
PERENNIAL RYEGRASS	10 lb/oc
JASPER RED FESCUE	2 oz/oc
"FULTS" PUCCELLA DISTANS	2 oz/oc
REDTOP	1 lb/oc

THIS MIXTURE SHALL BE APPLIED AT THE RATE OF 140lb/oc. IT SHALL CONSIST OF THE MATERIALS AND BE APPLIED AT THE RATES SHOWN ABOVE.

Preliminary Plant List

Key	Quantity	Name COMMON/ Botanical	Size	Comments
ACCA	14	HEDGE MAPLE/ Acer campestre	2-1/2" BB	Tree form
ACGR	14	AUTUMN BLAZE MAPLE/ Acer freemanii 'Autumn Blaze'	2-1/2" BB	
ACSA	16	GREEN MOUNTAIN SUGAR MAPLE/ Acer saccharum 'Green Mountain'	2-1/2" BB	
ALGL	5	BLACK ALDER/ Alnus glutinosa	8" BB	
AMGR	13	AUTUMN BRILLIANCE SERVICEBERRY/ Amelanchier grandiflora 'Autumn Brilliance'	8" BB	Multi-stem
ARME	123	BLACK CHOKEBERRY/ Aronia melanocarpa	3"	Planted 4'-0" on center
BENI	12	RIVER BIRCH/ Betula nigra	8" BB	3 Stem clump
COAC	95	PEKING COTONEASTER/ Cotoneaster acutifolius	3"	Planted 4'-0" on center
EUAL	58	DWARF BURNING BUSH/ Euonymus alatus 'Compactus'	3"	Planted 4'-0" on center
GIBI	22	AUTUMN GOLD GINKGO/ Ginkgo biloba 'Autumn Gold'	2-1/2" BB	Male only
GLTR	14	SKYLINE HONEYLOCUST/ Gleditsia triacanthos var. inermis 'Skyline'	2-1/2" BB	
JUCH	42	BLUE SARGENT JUNIPER/ Juniperus chinensis sargentii 'Glaucia'	18"	Planted 3'-0" on center
LIST	6	SWEETGUM/ Liquidambar styraciflua	2-1/2" BB	
LITU	20	TULIP TREE/ Liriodendron tulipifera	2-1/2" BB	
MAFL	5	JAPANESE CRABAPPLE/ Malus foribunda	2" BB	Low branched form
MAPR	8	PRAIRIE FIRE CRABAPPLE/ Malus 'Prairefire'	6" BB	Low branched form
PIAB	21	NORWAY SPRUCE/ Picea abies	6" BB	
PIPU	27	COLORADO GREEN SPRUCE/ Picea pungens	6" BB	
PLHI	12	LONDON PLANETREE/ Platanus x hispanica	2-1/2" BB	
POFR	20	McKAY'S WHITE POTENTILLA/ Potentilla fruticosa McKay's White'	24"	Planted 3'-0" on center
PSME	23	DOUGLAS FIR/ Pseudotsuga menziesii	6" BB	
PYCA	4	CLEVELAND SELECT FLOWERING PEAR/ Pyrus calleryana 'Cleveland Select'	2-1/2" BB	
QUBI	8	SWAMP WHITE OAK/ Quercus bicolor	2-1/2" BB	
SYPA	33	MISS KIM LILAC/ Syringa patula 'Miss Kim'	3"	Planted 4'-0" on center
TADI	9	COMMON BALDCYPRESS/ Taxodium distichum	2-1/2" BB	
VESP	180	GOODNESS GROWS SPEEDWELL/ Veronica 'Goodness Grows'	#2 Container	Planted 1'-0" on center

Legend

- TURF AREA
- SEE MIXTURE TYPE D
- SEE MIXTURE TYPE R

811
 Know what's below.
 Call before you dig.
 Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.
 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

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 800 Westside Parkway, Mooresville, NC 28088 | 704.247.8344 | manhard.com
 Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

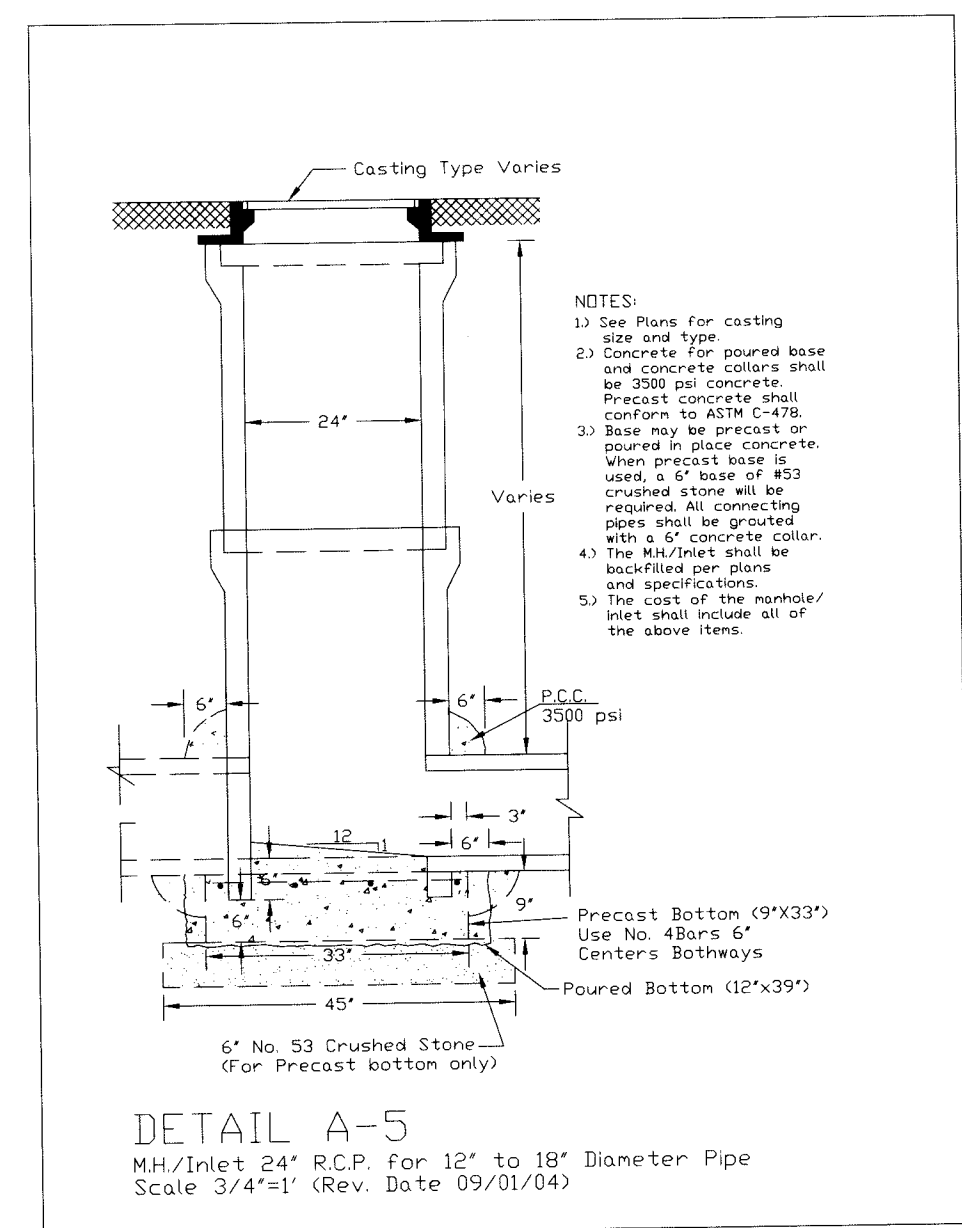
PROPOSED WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA
 LANDSCAPE PLAN

DATE: 11-20-14
 SCALE: 1"=60'
 SHEET
22 OF 37
 WALEV14 120866

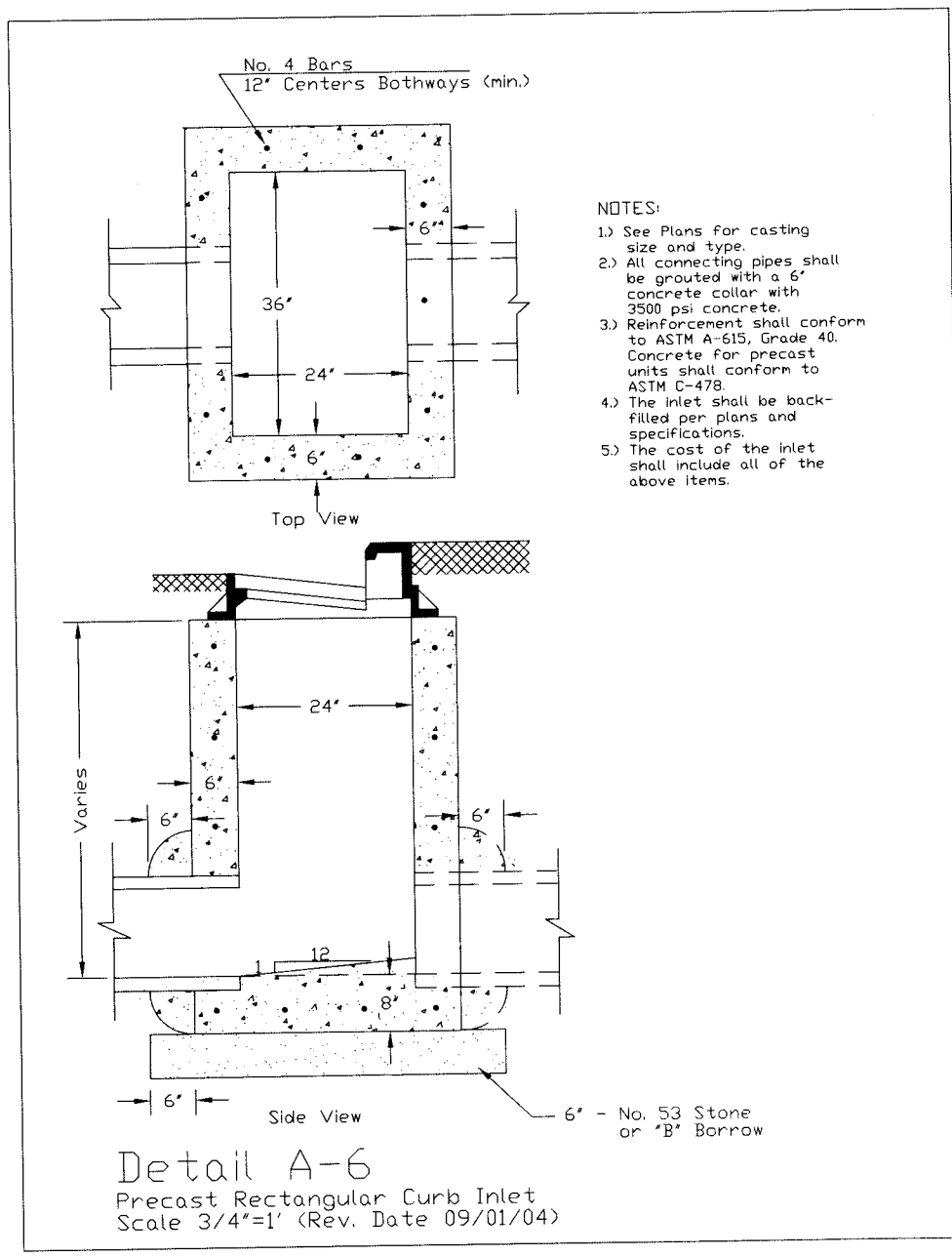
Landscape Plan
 Scale:

1" = 60'-0"

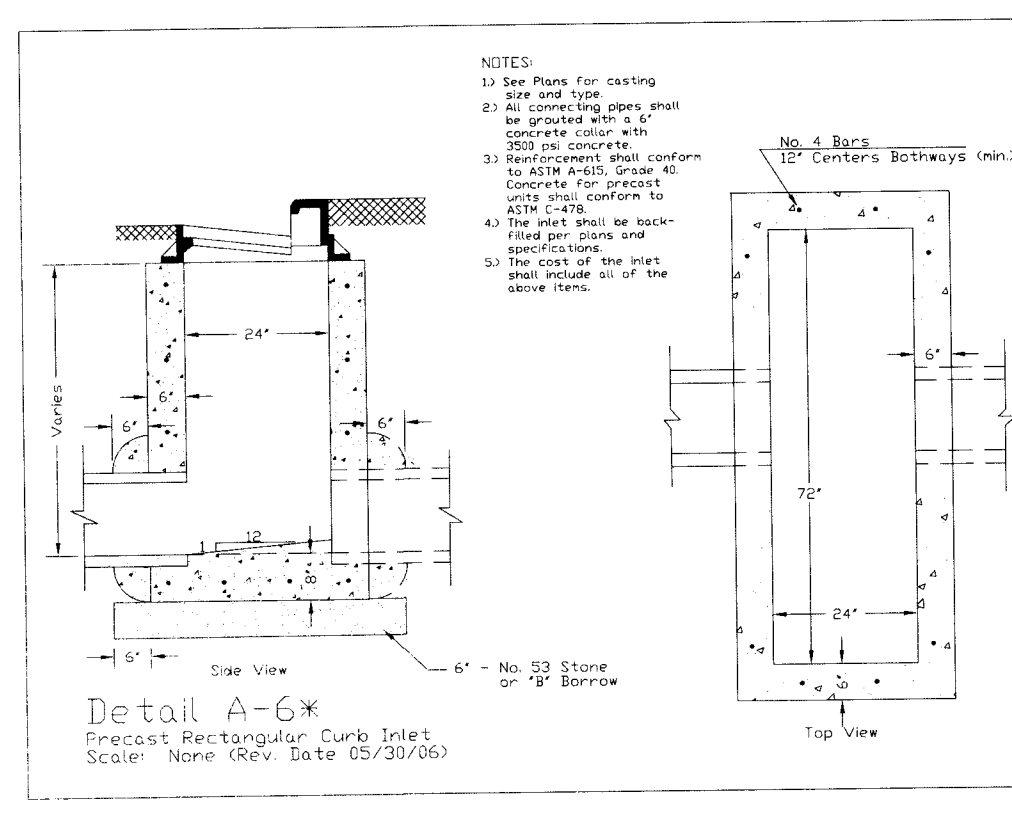




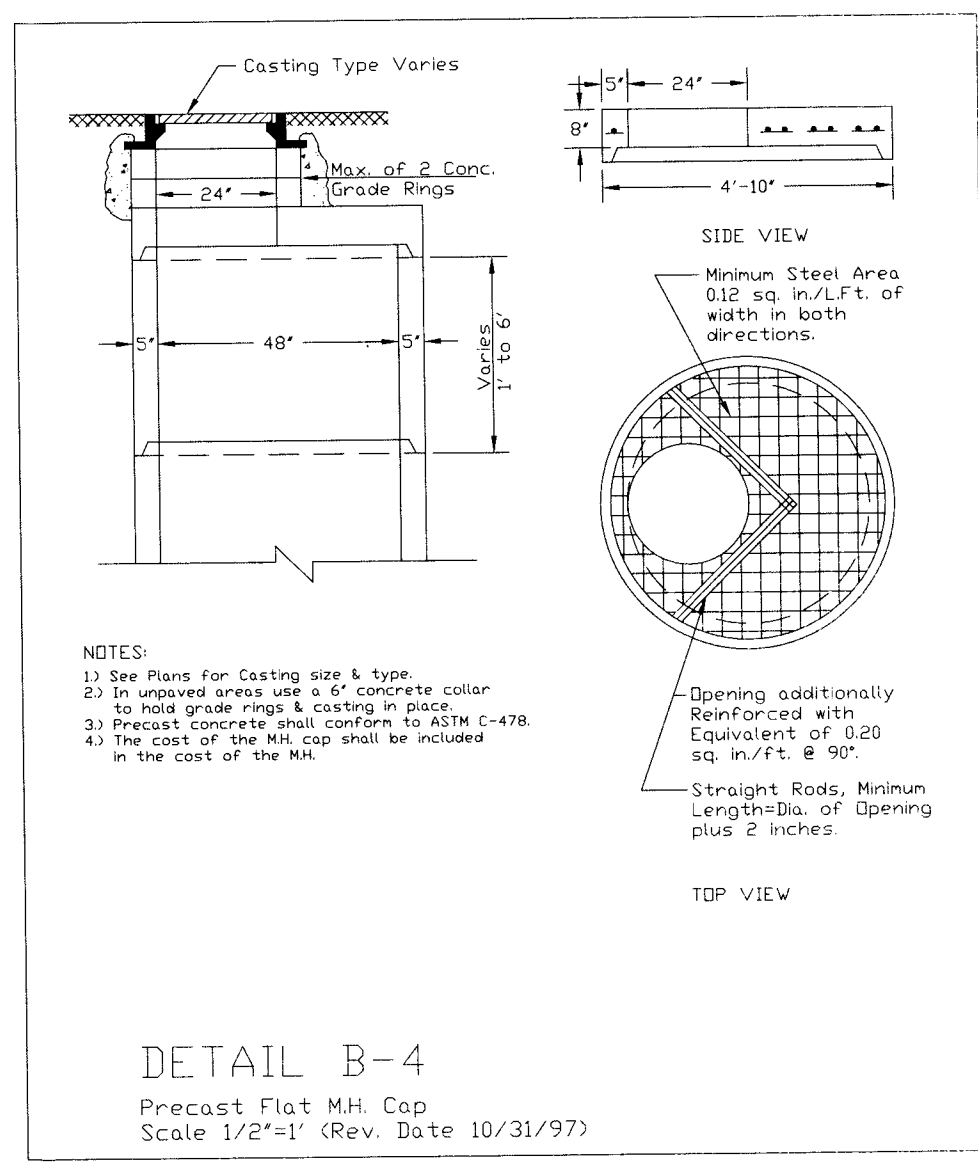
DETAIL A-5
MH/Inlet 24" R.C.P. for 18" to 18" Diameter Pipe
Scale 3/4"=1' (Rev. Date 09/01/04)



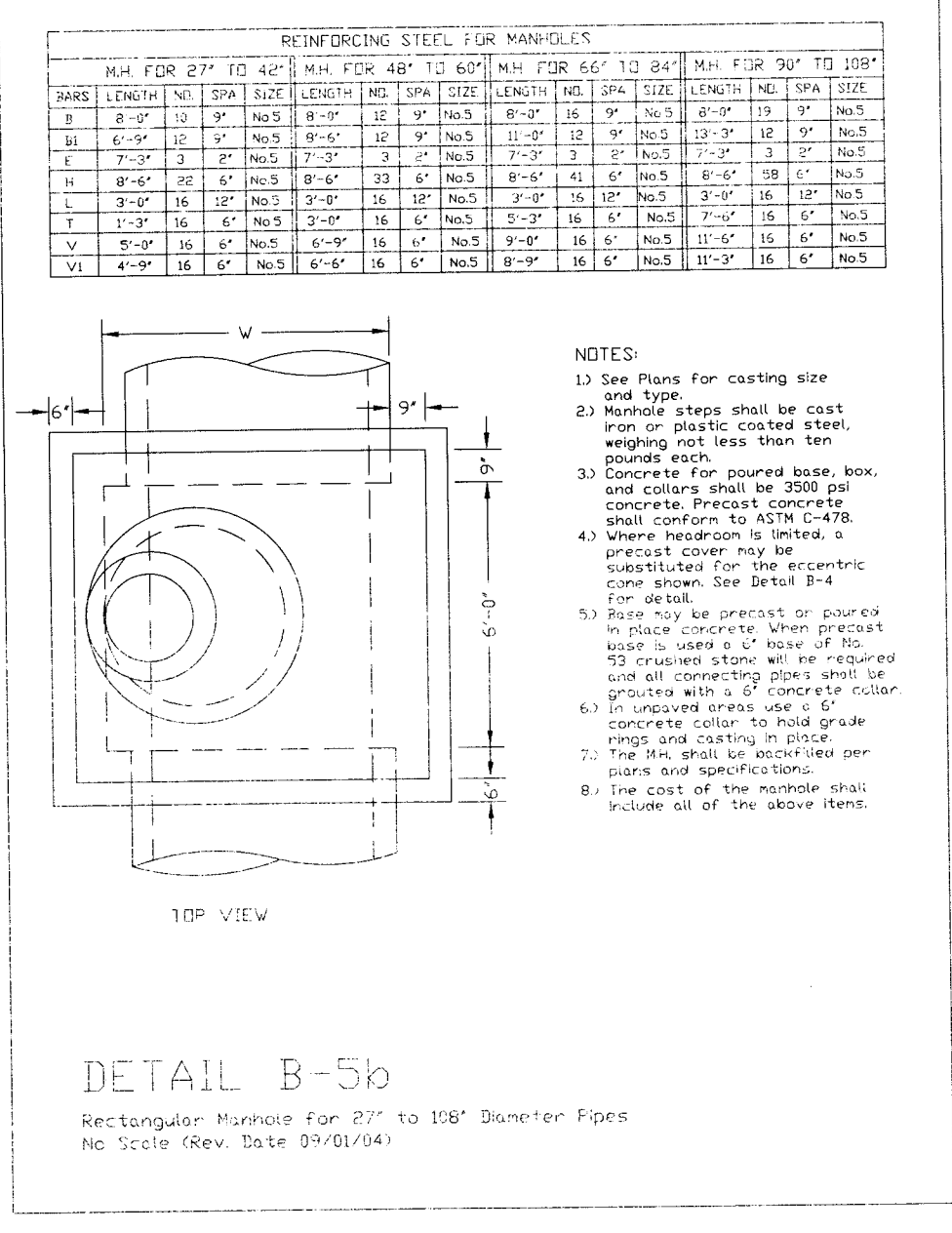
Detail A-6
Precast Rectangular Curb Inlet
Scale 3/4"=1' (Rev. Date 09/01/04)



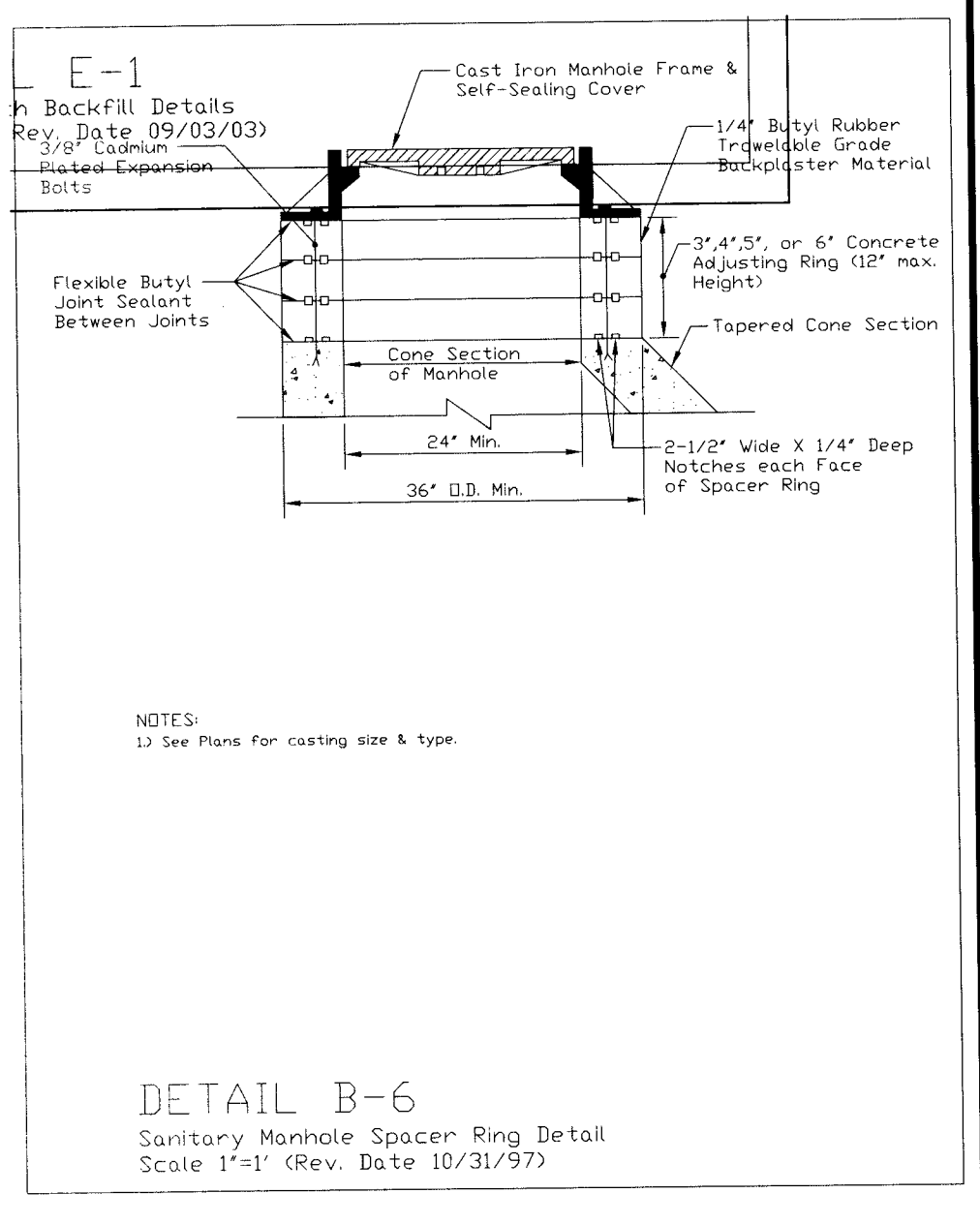
Detail A-6x
Precast Rectangular Curb Inlet
Scale: N/A (Rev. Date 05/30/06)



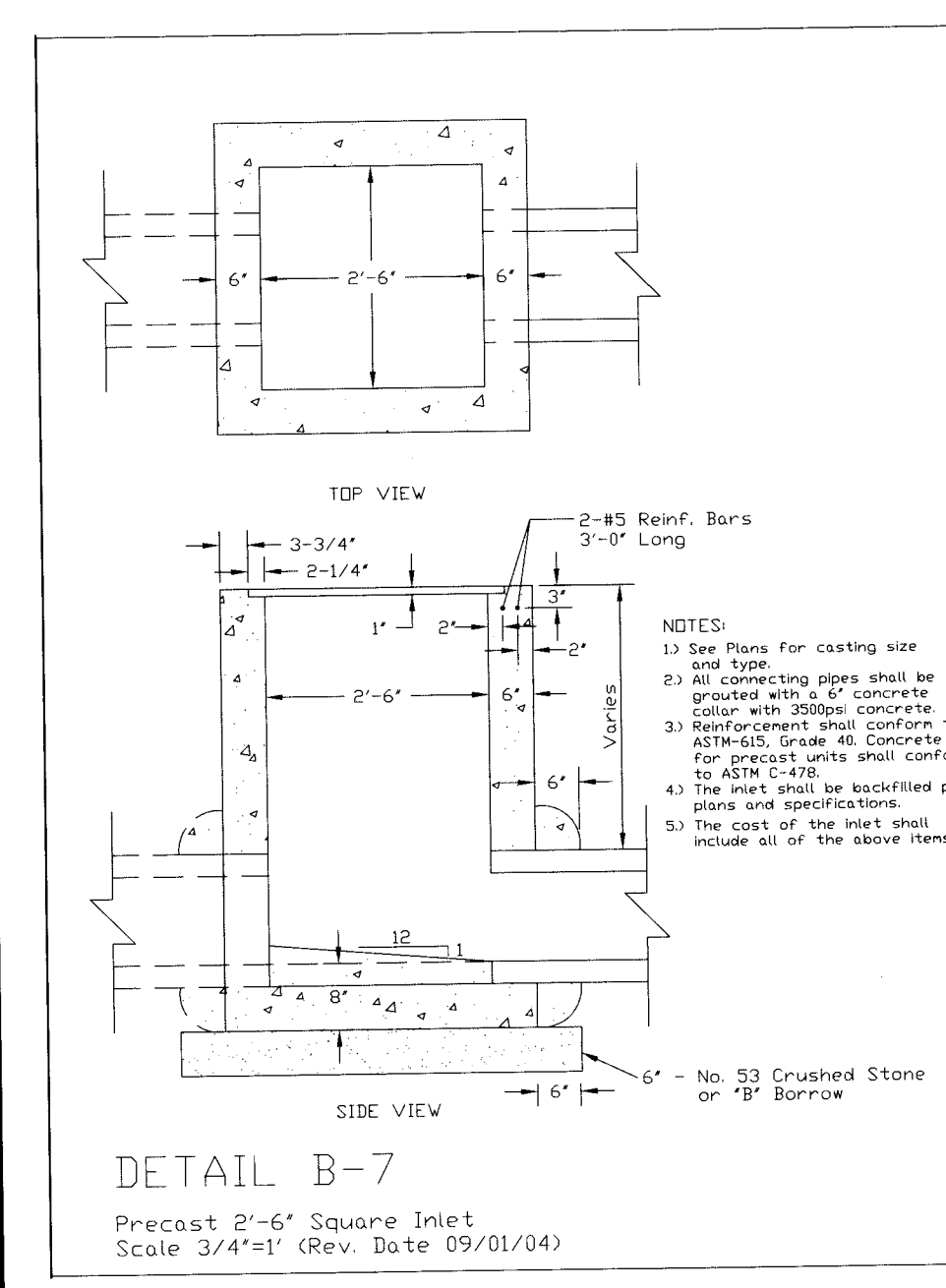
DETAIL B-4
Precast Flat M.H. Cap
Scale 1/2"=1' (Rev. Date 10/31/97)



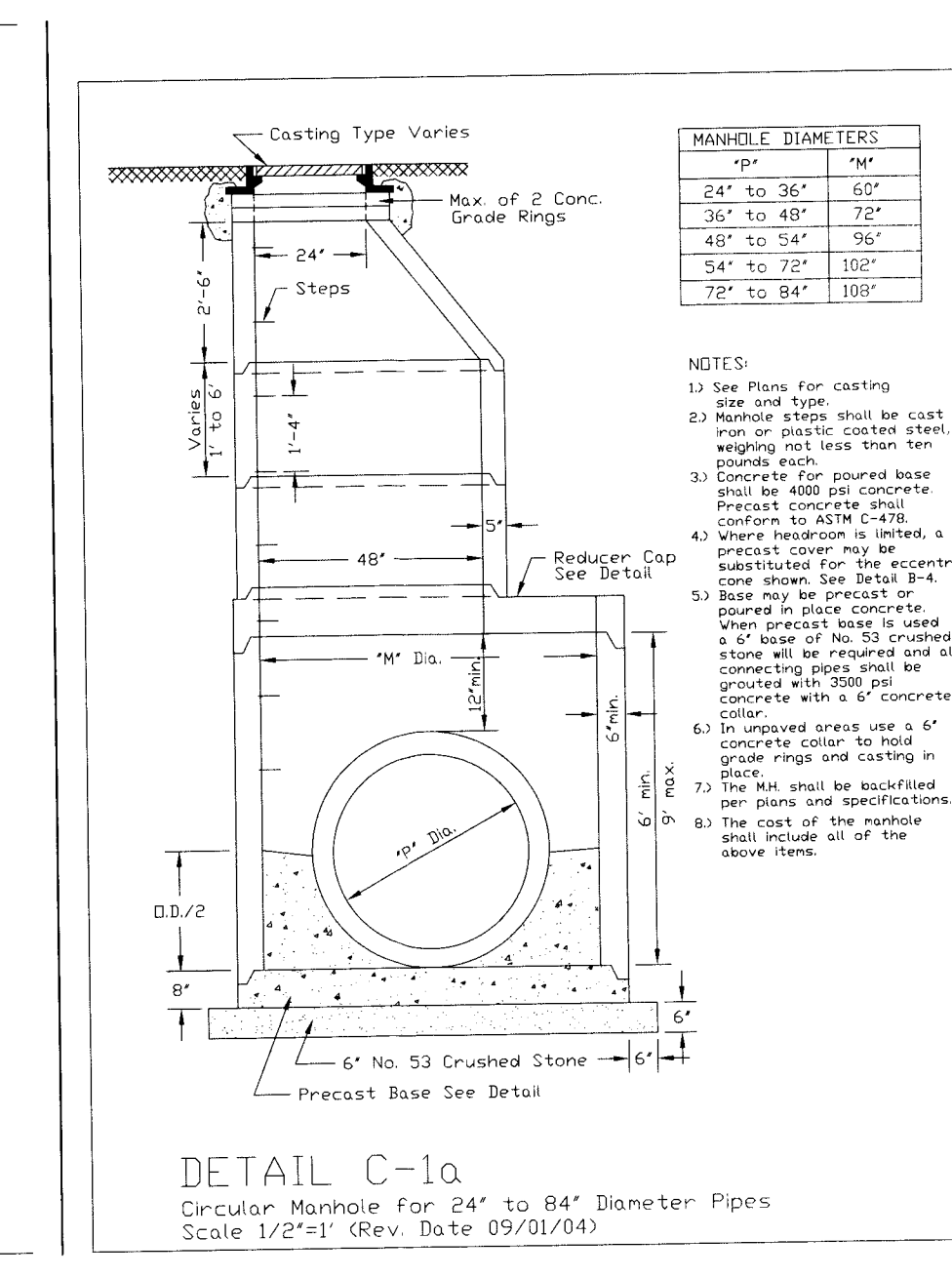
DETAIL B-5b
Rectangular Manhole for 27" to 108" Diameter Pipes
No Scale (Rev. Date 09/01/04)



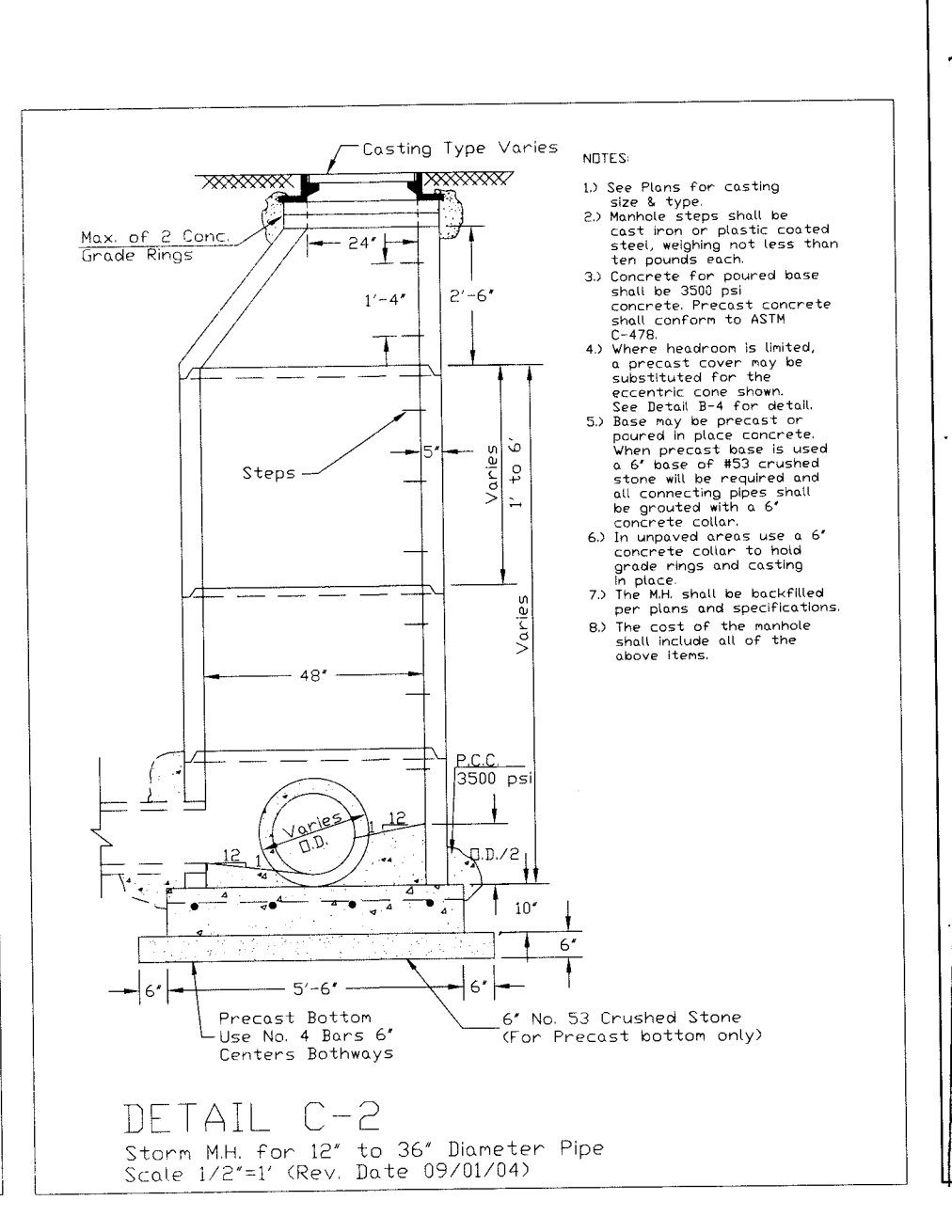
DETAIL B-6
Sanitary Manhole Spacer Ring Detail
Scale 1"=1' (Rev. Date 10/31/97)



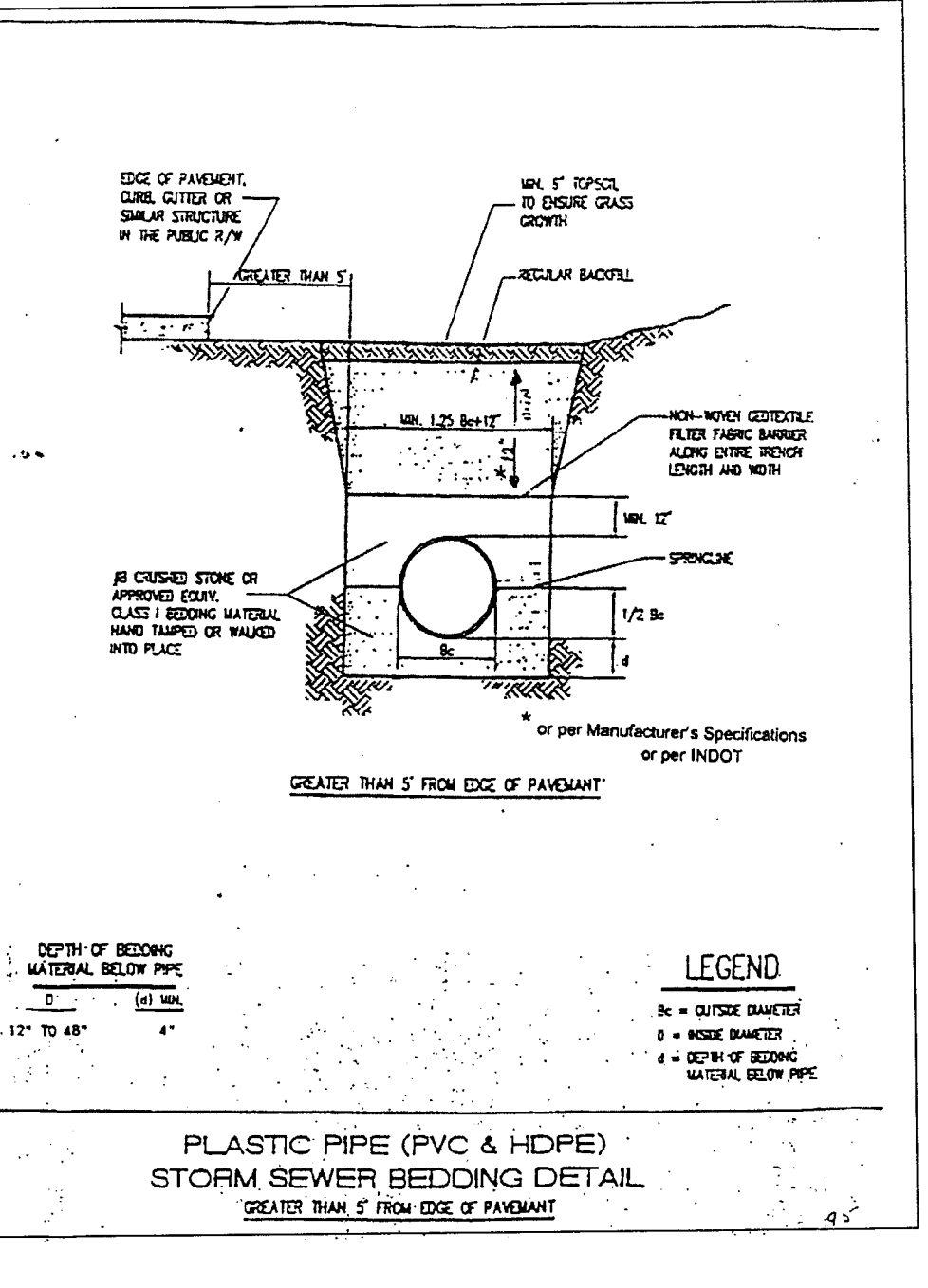
DETAIL B-7
Precast 2'-6" Square Inlet
Scale 3/4"=1' (Rev. Date 09/01/04)



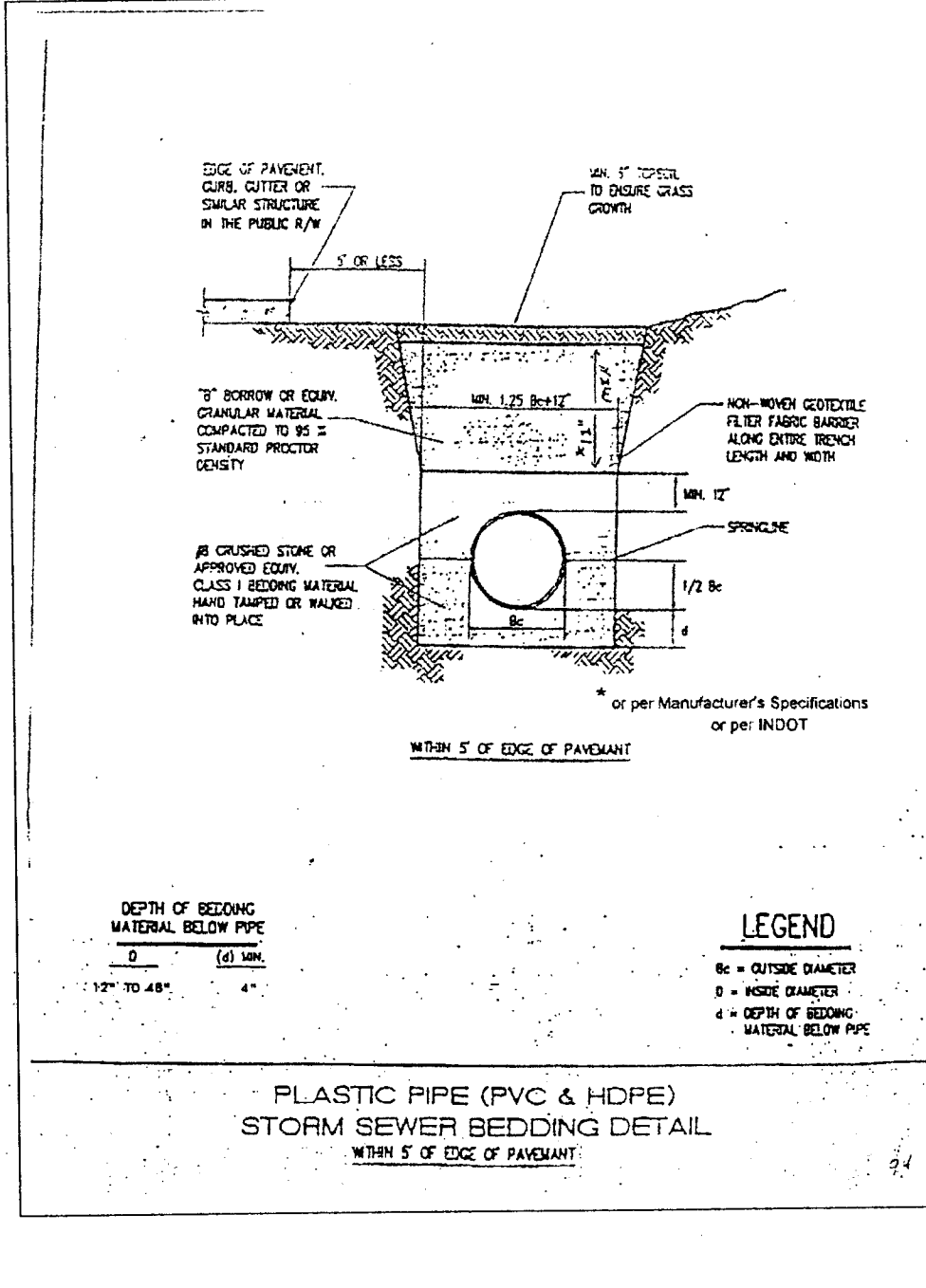
DETAIL C-1a
Circular Manhole for 24" to 84" Diameter Pipes
Scale 1/2"=1' (Rev. Date 09/01/04)



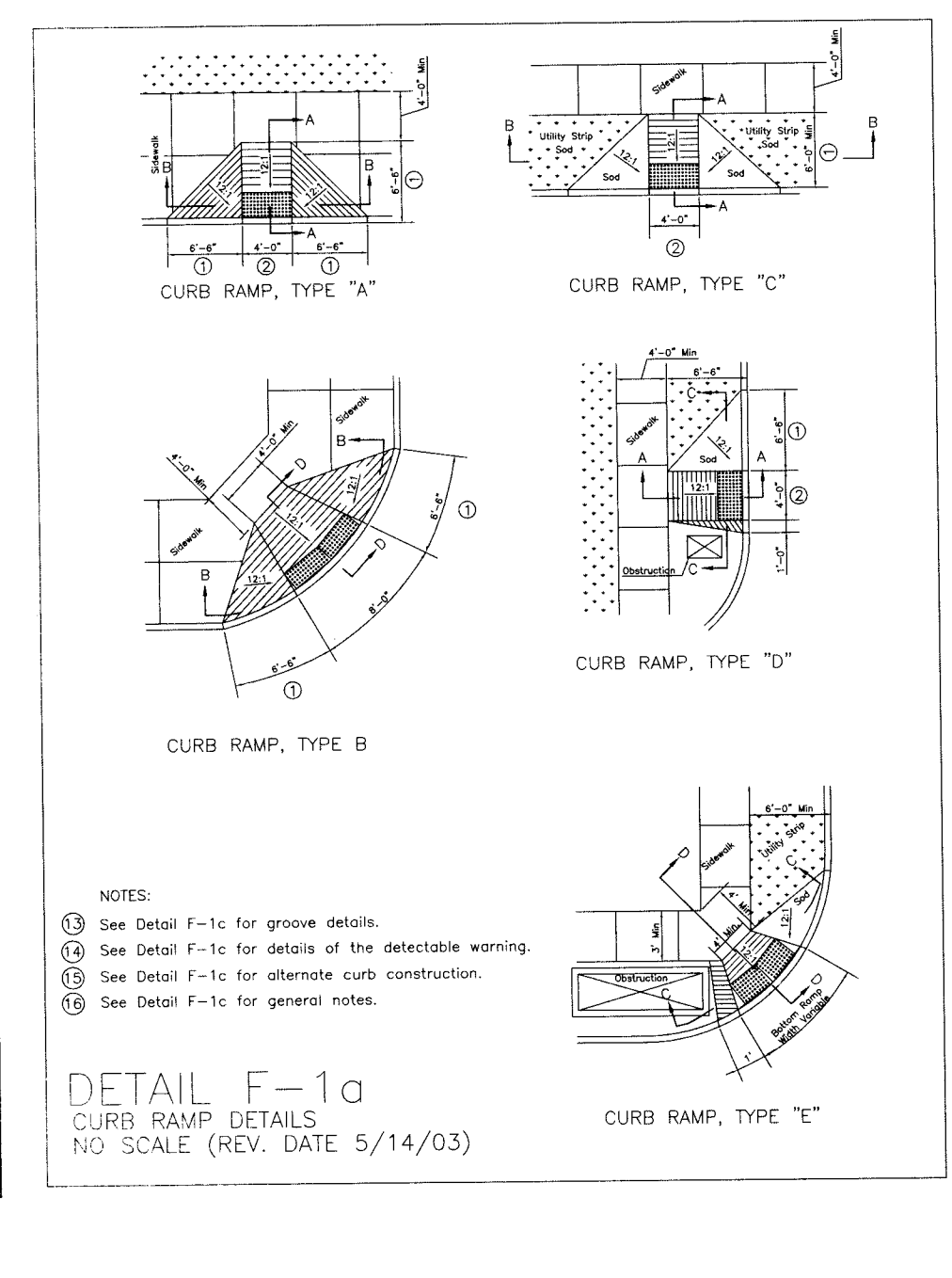
DETAIL C-2
Storm M.H. for 12" to 36" Diameter Pipe
Scale 1/2"=1' (Rev. Date 09/01/04)



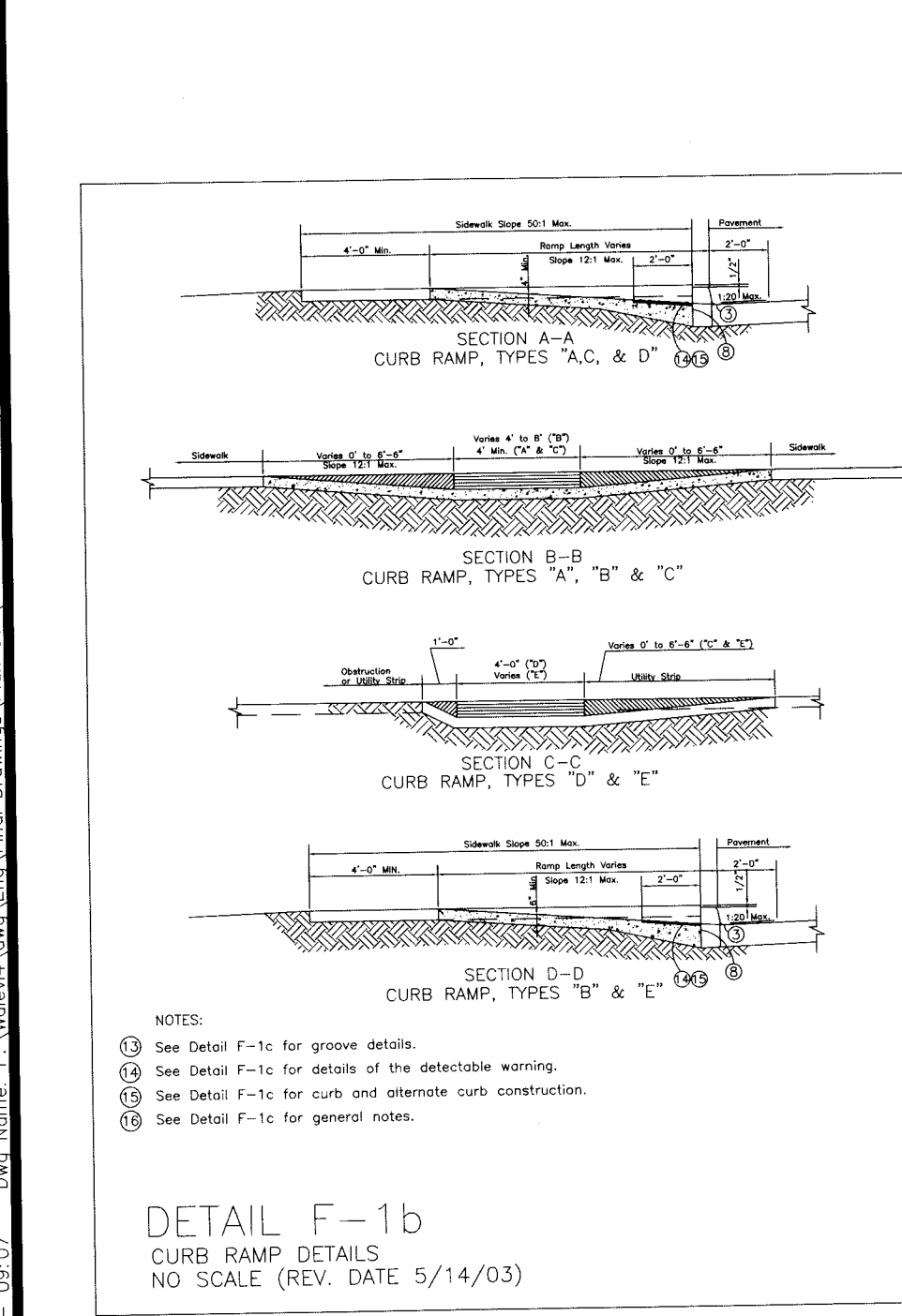
**PLASTIC PIPE (PVC & HDPE)
STORM SEWER BEDDING DETAIL**
GREATER THAN 5' FROM EDGE OF PAVEMENT



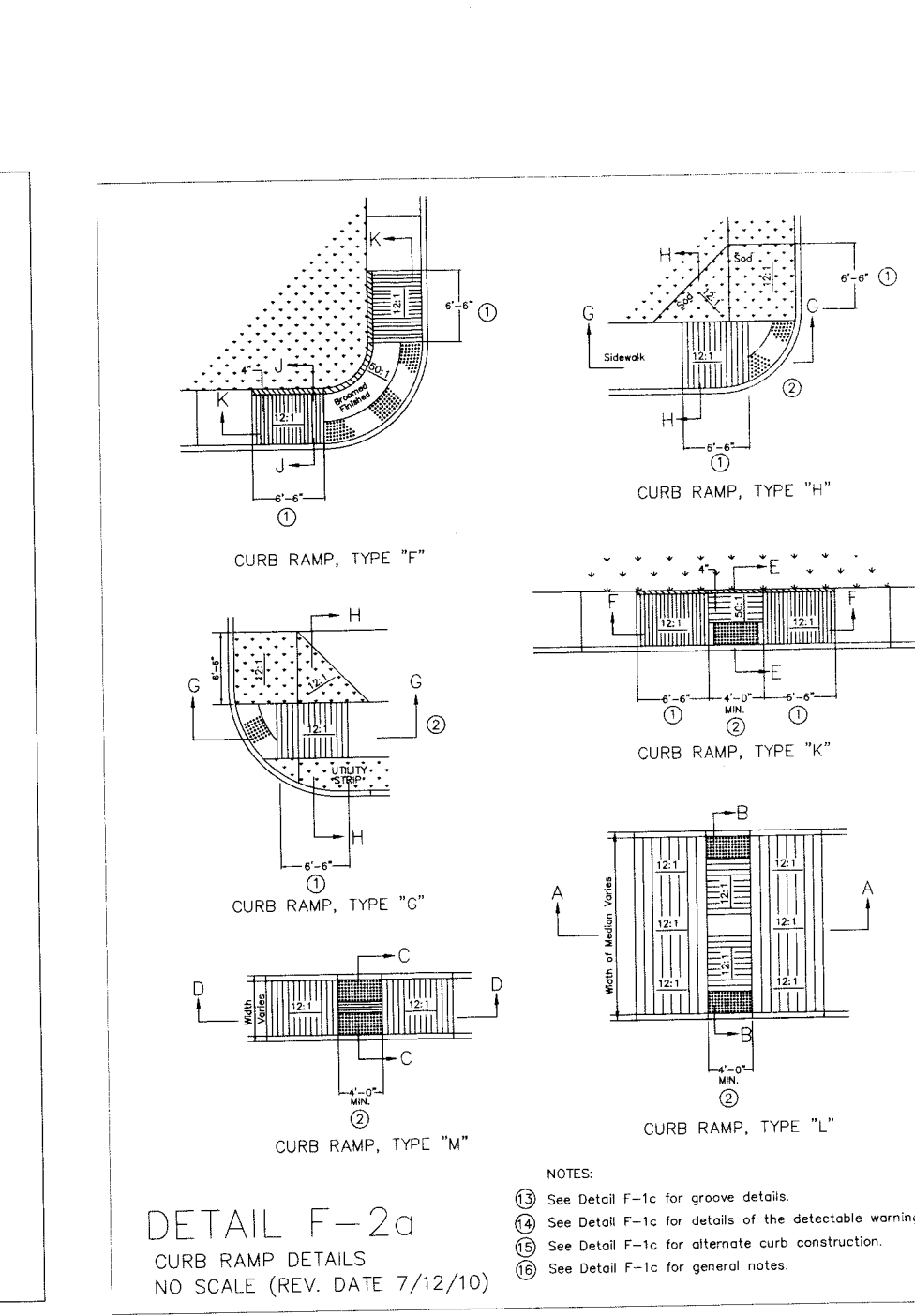
**PLASTIC PIPE (PVC & HDPE)
STORM SEWER BEDDING DETAIL**
WITHIN 5' OF EDGE OF PAVEMENT



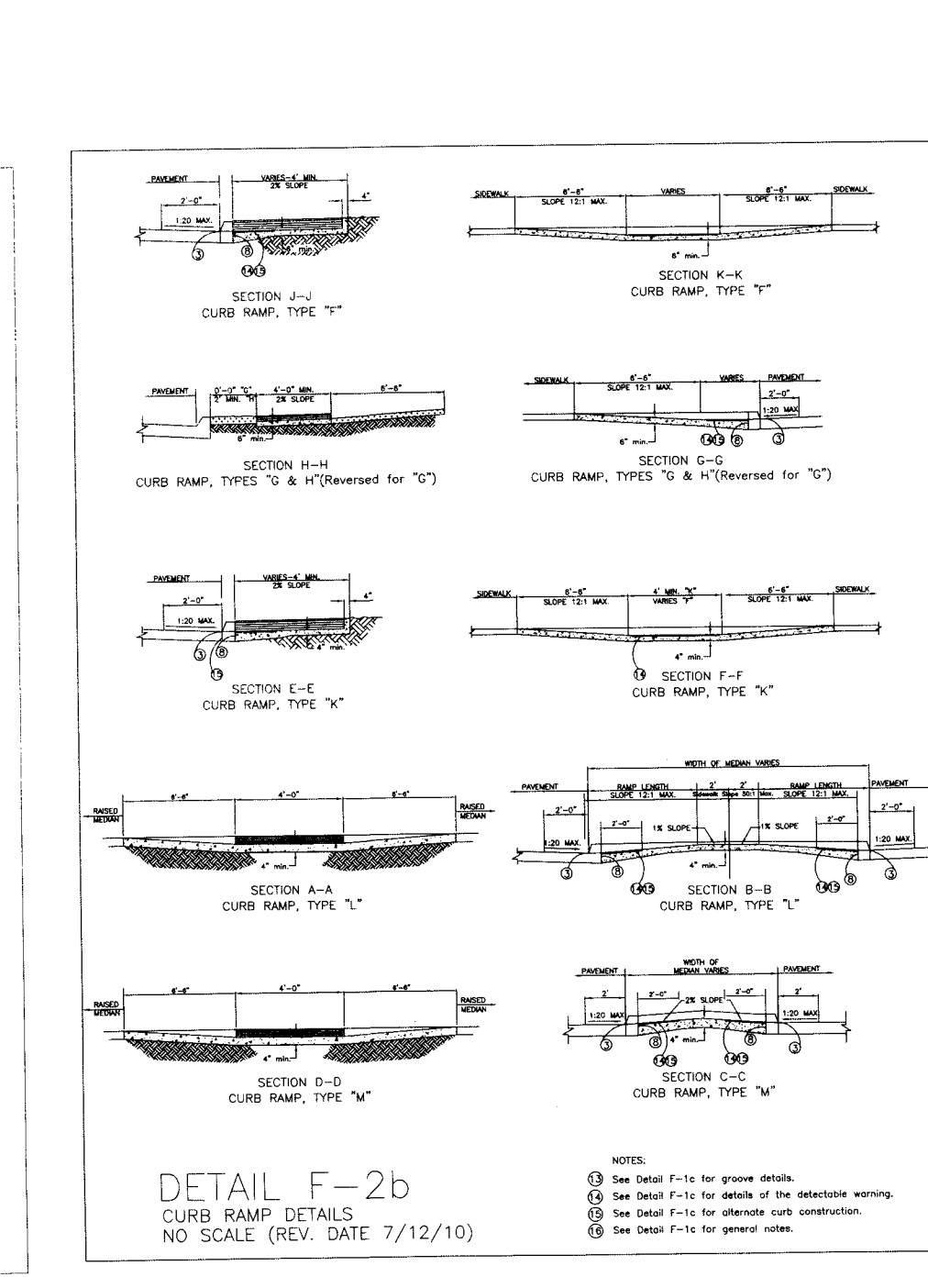
DETAIL F-1a
CURB RAMP DETAILS
NO SCALE (REV. DATE 5/14/03)



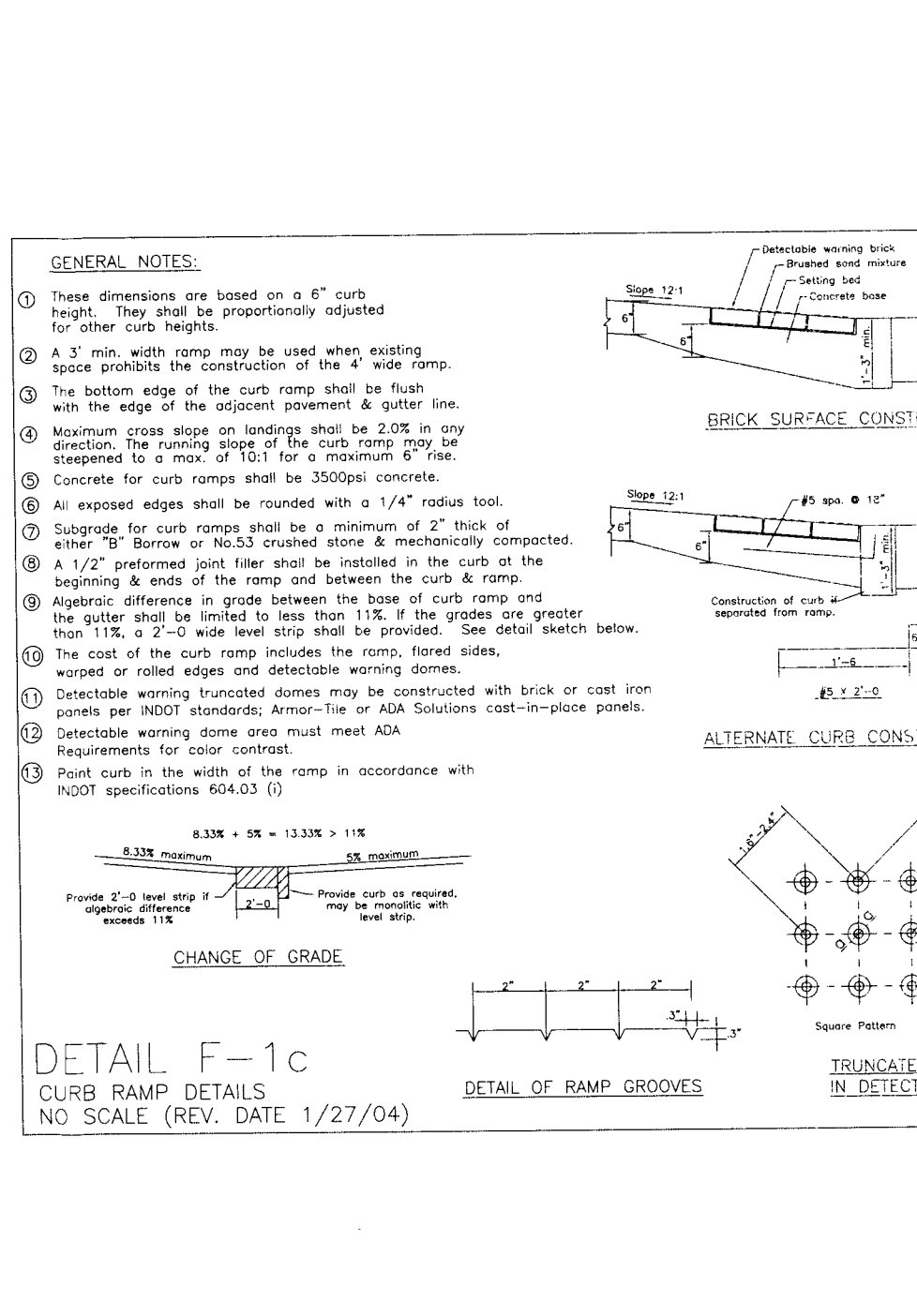
DETAIL F-1b
CURB RAMP DETAILS
NO SCALE (REV. DATE 5/14/03)



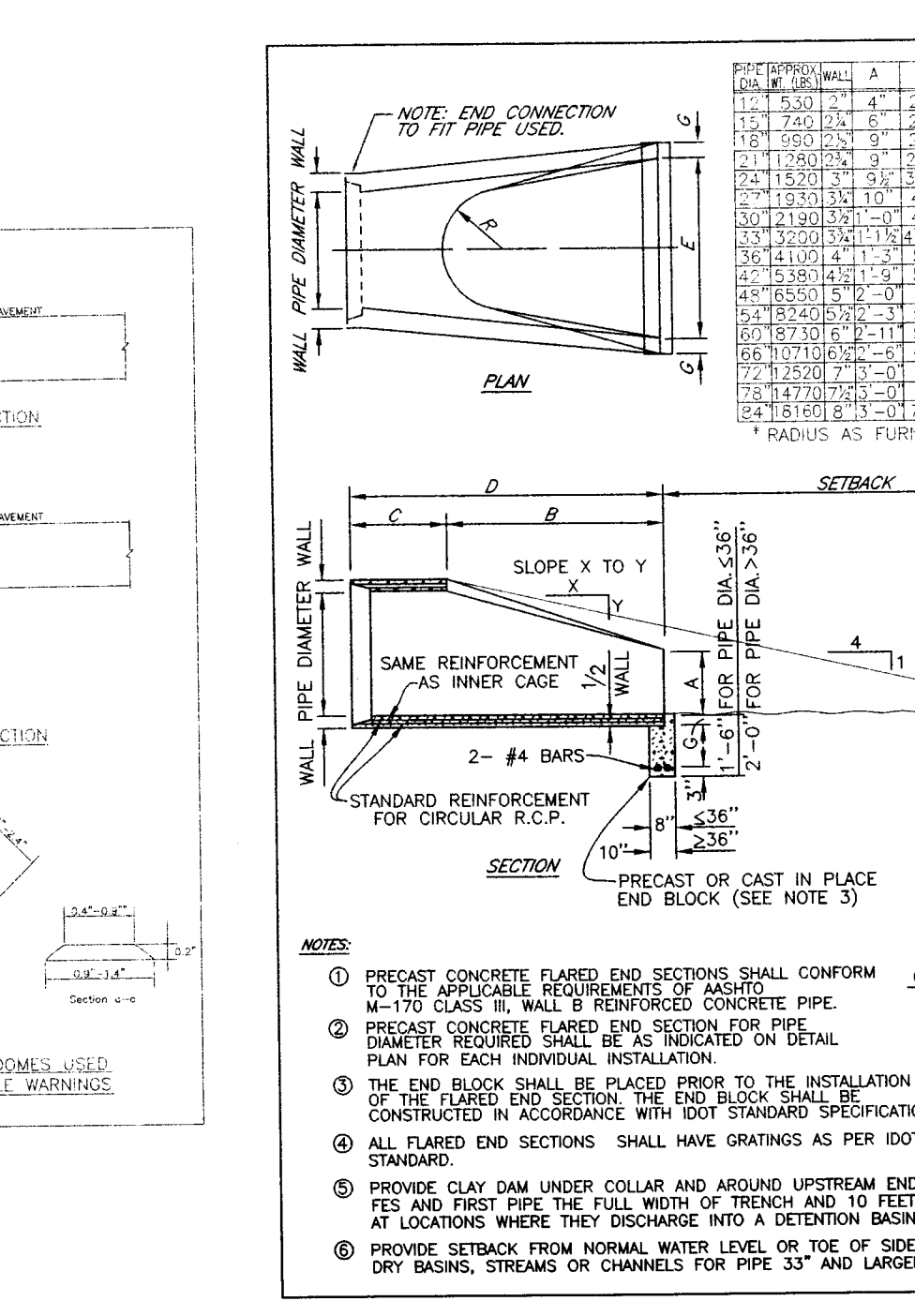
DETAIL F-2a
CURB RAMP DETAILS
NO SCALE (REV. DATE 7/12/10)



DETAIL F-2b
CURB RAMP DETAILS
NO SCALE (REV. DATE 7/12/10)



DETAIL F-1c
CURB RAMP DETAILS
NO SCALE (REV. DATE 1/27/04)



CONCRETE FLARED END SECTION DETAIL
08-01-14 S-21-23

MANHOLE WALL	A	B	C	D	E	R	SLOPE
18"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
30"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
36"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
42"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
48"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
54"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
78"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
84"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
96"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102"	1.0	1.0	1.0	1.0	1.0	1.0	1.0
108"	1.0	1.0	1.0	1.0	1.0	1.0	1.0

7/9/2015
RECEIVED BY THE
VANDERBURGH COUNTY
SURVEYOR'S OFFICE

AMMO MOHSENI
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STATE OF INDIANA
No. 60920247
PROFESSIONAL ENGINEER

PROPOSED WAL-MART SUPERCENTER NO. 3374-00
VANDERBURGH COUNTY, INDIANA

CONSTRUCTION DETAILS

SHEET
28 OF 37
WALEV4 120866

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GENERAL NOTES

- The spacer thickness shall be 1/4 in. less than the gap between the posts when positioned in the unbolted configuration.
- The exterior bolt, spacer, washer, and nut shall be installed in a punched hole within the first 2 in. of the end of the lapped post section.
- The interior bolt, spacer, washer, and nut shall be installed in a punched hole within the first 2 in. of the exterior bolts. The maximum spacing between the interior bolts shall be 1'-6". If the length of the post lap is increased such that this 1'-6" maximum is exceeded, then additional interior bolts shall be installed such that the maximum space between adjacent interior bolts does not exceed the 1'-6" limit.
- The driven post shall always be mounted in front of the upper post with respect to adjacent oncoming traffic, regardless of the direction the sign is facing.
- The bolts shown shall be 1/2" x 2".

SECTION "A-A"

ELEVATION

U CHANNEL STEEL POST SPLICE

INDIANA DEPARTMENT OF TRANSPORTATION
U CHANNEL STEEL POST SPLICE DETAIL
 SEPTEMBER 2002
 STANDARD DRAWING NO. E 601-TCOV-08

ELEVATION VIEW
PAVED SIDE DITCH TYPES A THROUGH D

ELEVATION VIEW
PAVED SIDE DITCH TYPES J THROUGH M

INDIANA DEPARTMENT OF TRANSPORTATION
PAVED SIDE DITCH ELEVATIONS
 SEPTEMBER 2000
 STANDARD DRAWING NO. E 607-PSDT-01

SECTION A-A

SECTION B-B

INDIANA DEPARTMENT OF TRANSPORTATION
PAVED SIDE DITCH SECTIONS AND ISOMETRICS
 SEPTEMBER 1997
 STANDARD DRAWING NO. E 607-PSDT-02

ELEVATION VIEW
CUT-OFF WALL FOR PAVED SIDE DITCH TYPES E THROUGH H

ELEVATION VIEW
LUG FOR PAVED SIDE DITCH TYPES E THROUGH H

INDIANA DEPARTMENT OF TRANSPORTATION
PAVED SIDE DITCH CUT-OFF WALL AND LUG
 SEPTEMBER 1997
 STANDARD DRAWING NO. E 607-PSDT-03

SECTION AT STREAM CROSSING OR DEPRESSION

INDIANA DEPARTMENT OF TRANSPORTATION
CHAIN LINK TYPE FENCE
 SEPTEMBER 2004
 STANDARD DRAWING NO. E 603-CLTF-02

CORNER BAR

STRIPING DETAIL FOR THE SIPHONIC BREAK MANHOLE

INDIANA DEPARTMENT OF TRANSPORTATION
WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA
CONSTRUCTION DETAILS

GENERAL NOTES

PLAN VIEW OF LUG (TYPICAL FOR ALL TYPES)

INDIANA DEPARTMENT OF TRANSPORTATION
P.S.D. LUGS & SODDED DITCH DETAILS
 SEPTEMBER 1997
 STANDARD DRAWING NO. E 607-PSDT-06

SIPHONIC BREAK CONCRETE STORM MANHOLE DETAIL

INDIANA DEPARTMENT OF TRANSPORTATION
WAL-MART SUPERCENTER NO. 3374-00
 VANDERBURGH COUNTY, INDIANA
CONSTRUCTION DETAILS