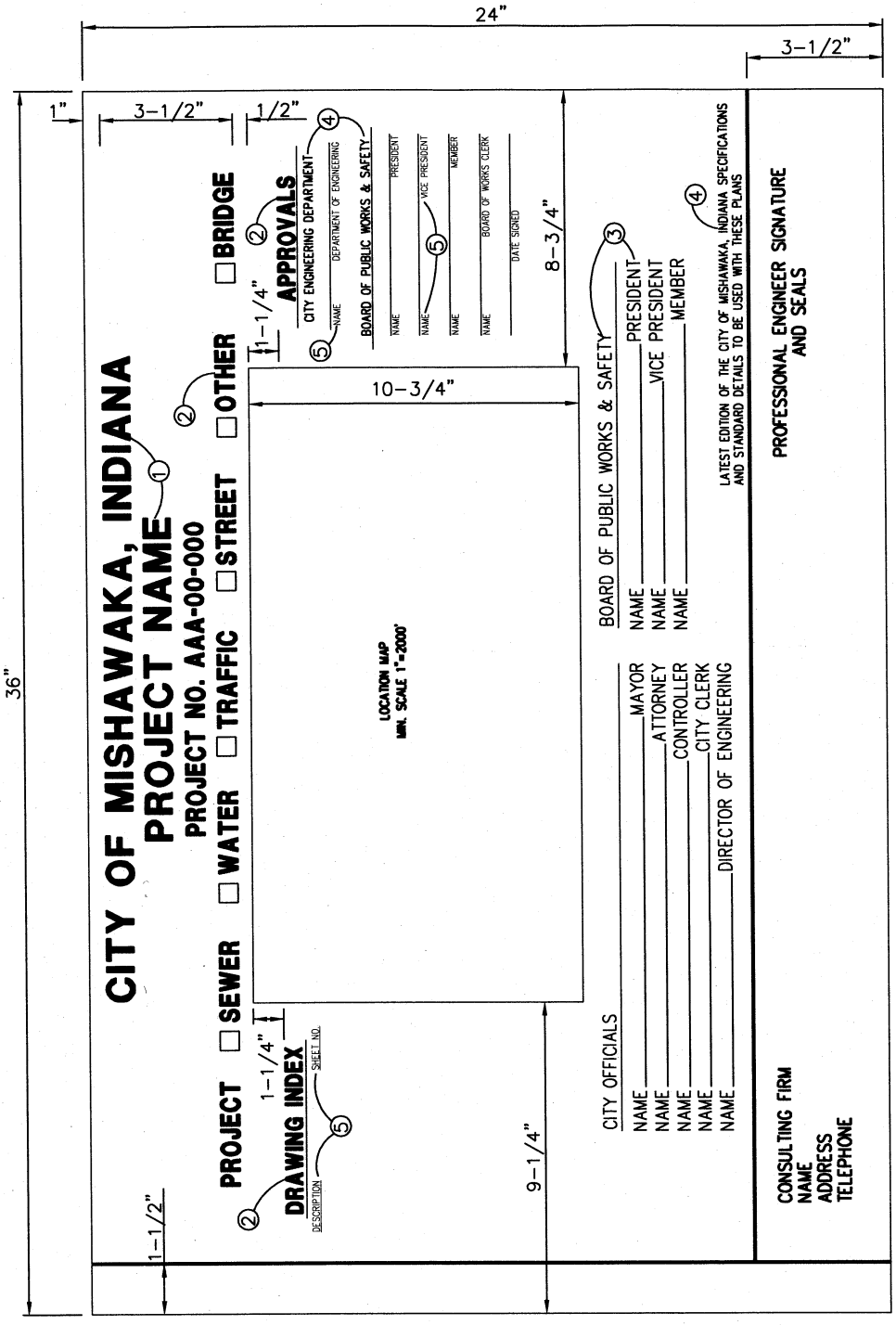

LEGEND

①1" LETTER HEIGHT
②1/2" LETTER HEIGHT
③3/8" LETTER HEIGHT
④1/4" LETTER HEIGHT
⑤MIN. 1/8" LETTER HEIGHT

NOTES:

1. THIS COVER SHEET SHALL BE USED ON ALL PLAN SETS.
2. ALL LETTERS & NUMBERS SHALL BE MECHANICAL, UPPER CASE.
3. INDEX NUMBERS & LETTERS SHALL BE A MIN. OF 1/8" LETTER HEIGHT.

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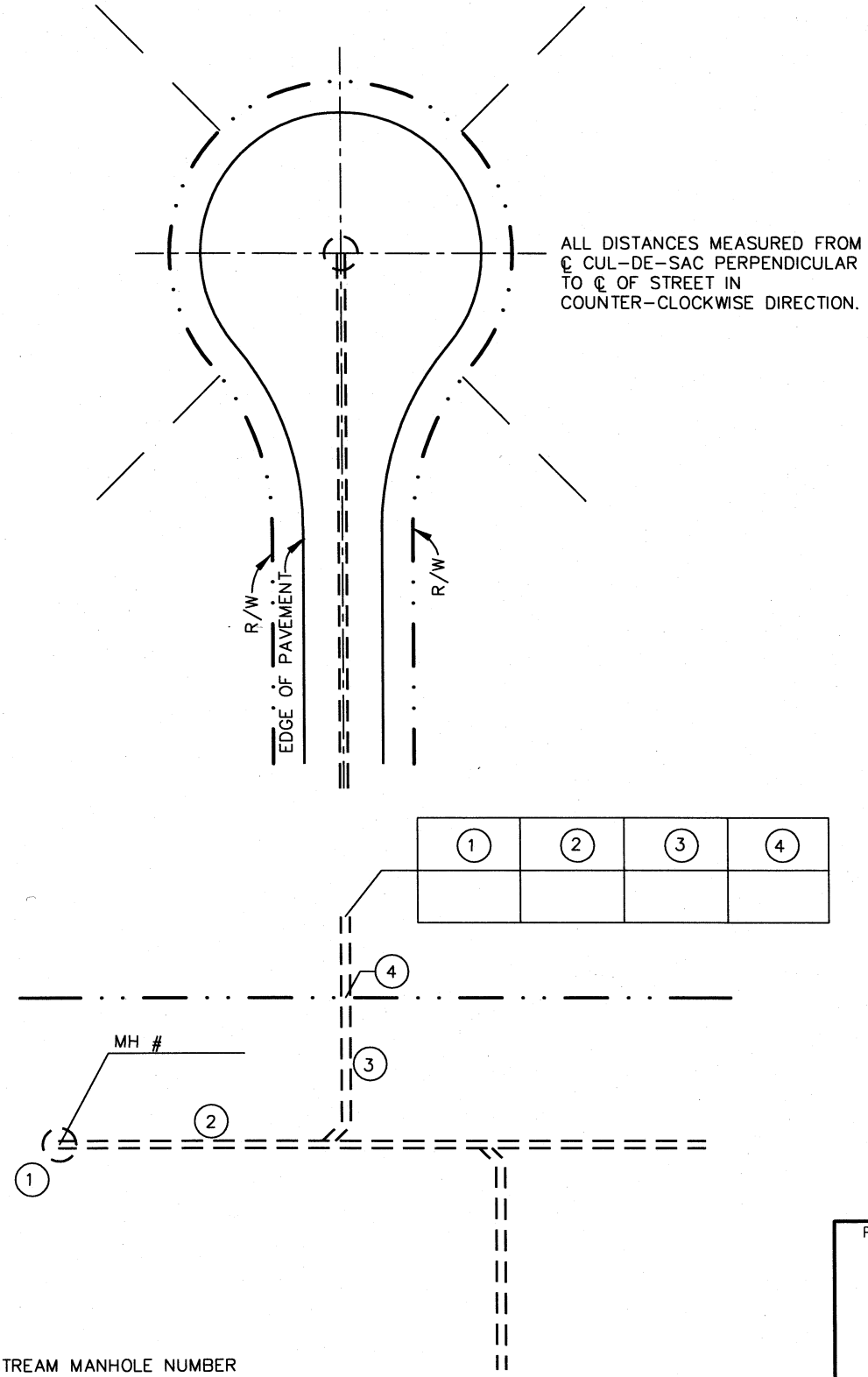
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

COVER SHEET

SHT. NO. I-1



NOTES:

1. DOWNSTREAM MANHOLE NUMBER
2. LOCATION OF TAP FROM DOWNSTREAM MANHOLE
3. LENGTH OF LATERAL FROM MAIN TO STUB
4. DEPTH OF LATERAL AT END

PREPARED BY: DLZ INDIANA, LLC

ANDREW C. LEMBERIS
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4/24/07

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CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

SEWER TAP
AS-BUILT DETAIL

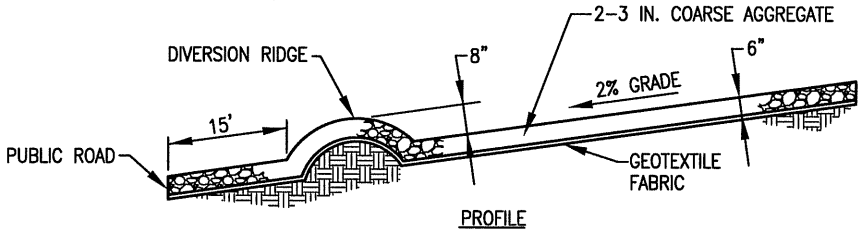
SHT. NO.
I-2

REQUIREMENTS:
(EXHIBIT 3.01-B)

MATERIAL: 2-3 IN. WASHED STONE (INDOT CA NO. 2) OVER A STABLE FOUNDATION.
TICKNESS: 6 IN. MINIMUM.
WIDTH: 12 FT. MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT ROADWAY, WHICHEVER IS GREATER.
LENGTH: 50 FT. MINIMUM. THE LENGTH CAN BE SHORTER FOR SMALL SITES SUCH AS FOR AN INDIVIDUAL HOME, BUT SHALL BE OF SUFFICIENT LENGTH TO PREVENT TRACKING.
WASHING FACILITY (OPTIONAL): LEVEL AREA WITH 3 IN. WASHED STONE MINIMUM OR A COMMERCIAL RACK, AND WASTE WATER DIVERTED TO A SEDIMENT TRAP OR BASIN.
GEOTEXTILE FABRIC UNDERLINER: REQUIRED TO PROVIDE GREATER BEARING STRENGTH.

INSTALLATION:
(EXHIBIT 3.01-C)

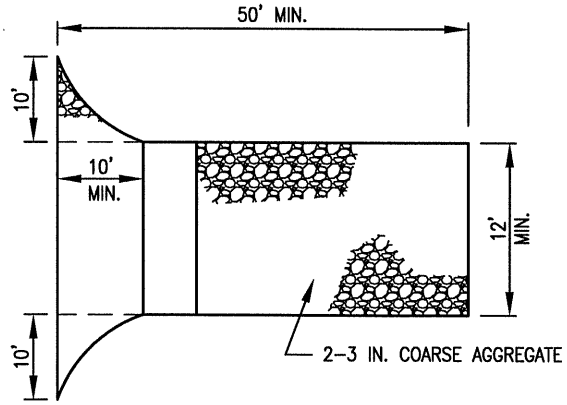
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8 IN.-HIGH WATER BAR (RIDGE) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FT. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD (SEE PROFILE).
4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
5. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.



PROFILE

MAINTENANCE

* INSPECT ENTRANCE PAD, SEDIMENT DISPOSAL AREA, AND ALL OTHER EROSION CONTROL MEASURES WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. REQUIRED REPAIRS SHOULD BE COMPLETED IMMEDIATELY.
* RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
* TOPDRESS WITH CLEAN STONE AS NEEDED.
* IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
* REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.



PLAN VIEW

PREPARED BY: DLZ INDIANA, LLC

BRIAN K. ARTERBERY REGISTERED No. 19800103 STATE OF INDIANA PROFESSIONAL ENGINEER

4/23/07

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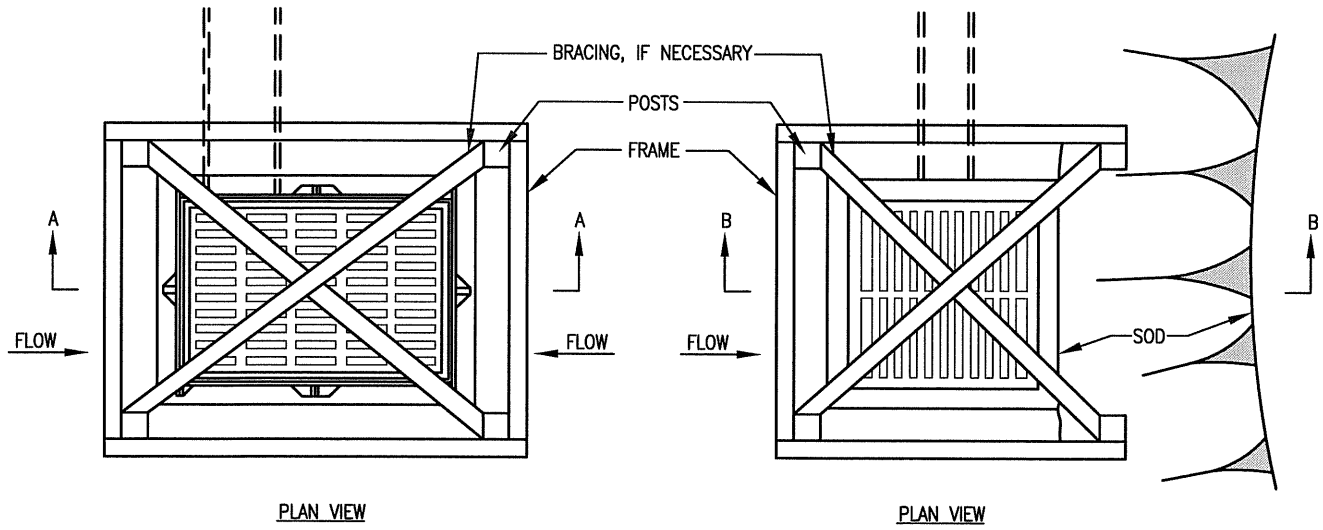
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

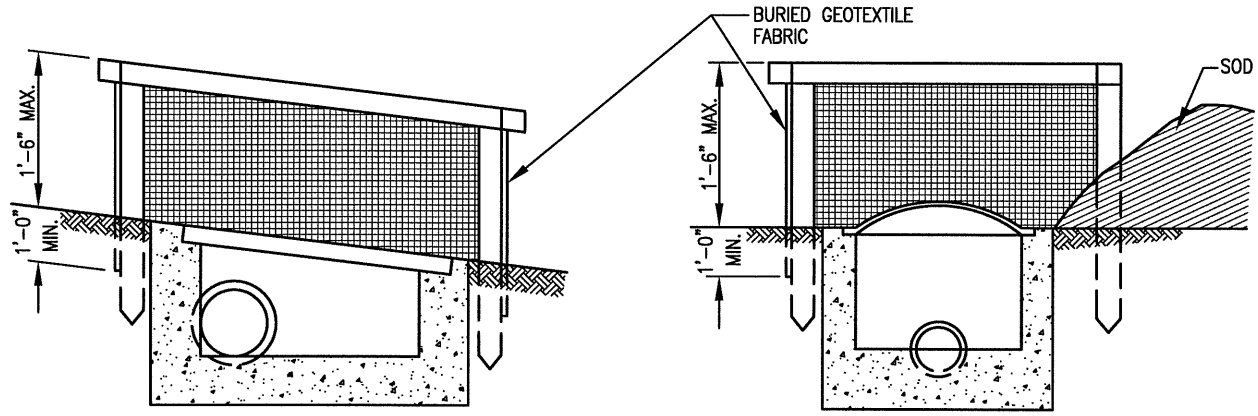
TEMPORARY GRAVEL CONST. ENTRANCE

SHT. NO. I-3



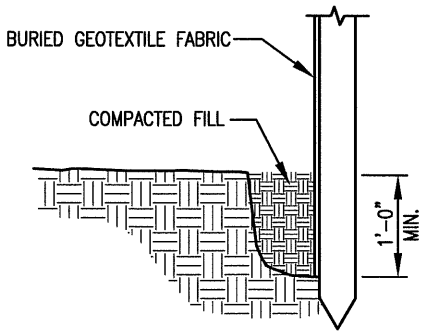
PLAN VIEW

PLAN VIEW



SECTION A–A

SECTION B–B



TRENCH DETAIL

NOTES:

1. THE FRAME SHALL BE WRAPPED WITH ONE CONTINUOUS PIECE OF GEOTEXTILE FABRIC, AND A 2'–0" OVERLAP SHALL BE PROVIDED.

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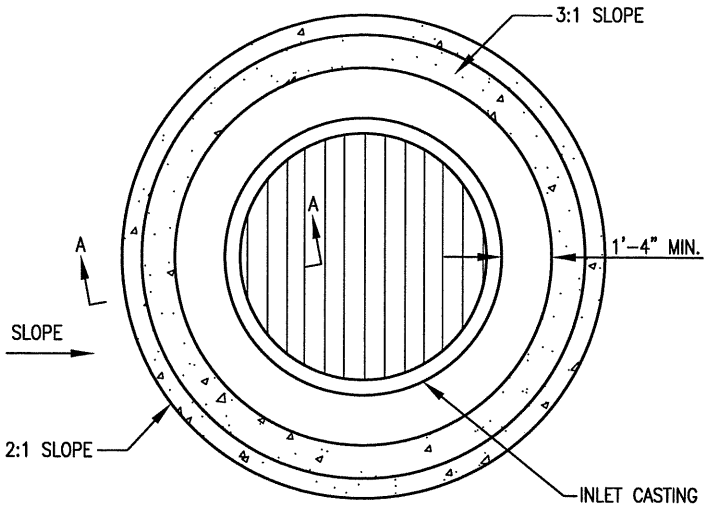
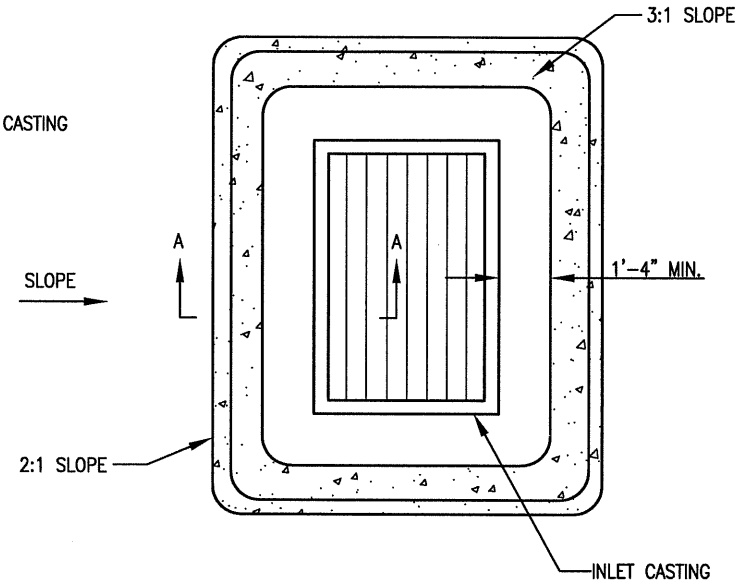
CITY OF MISHAWAKA, INDIANA

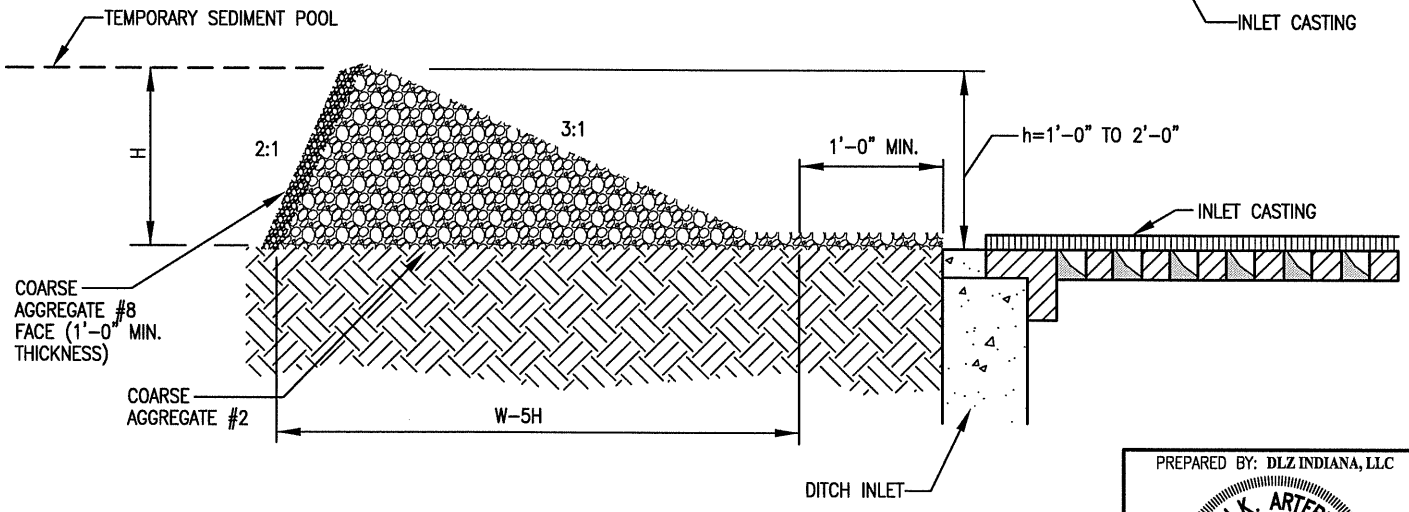
ENGINEERING STANDARDS

INLET PROTECTION GEOTEXTILE BOX

SHT. NO. I-4







SECTION A-A

NOTES:

1. H=h+0.25. FT.
2. WEIGHT OF COARSE AGGREGATE #2, TONS:
   (6.28/27) (0.67²+2.5H) (1+3H+1/2 INLET WIDTH) (0.6)
3. WEIGHT OF COARSE AGGREGATE #8, TONS:
   (6.28/27) (H) (1+4H+1/2 INLET WIDTH) (0.6)

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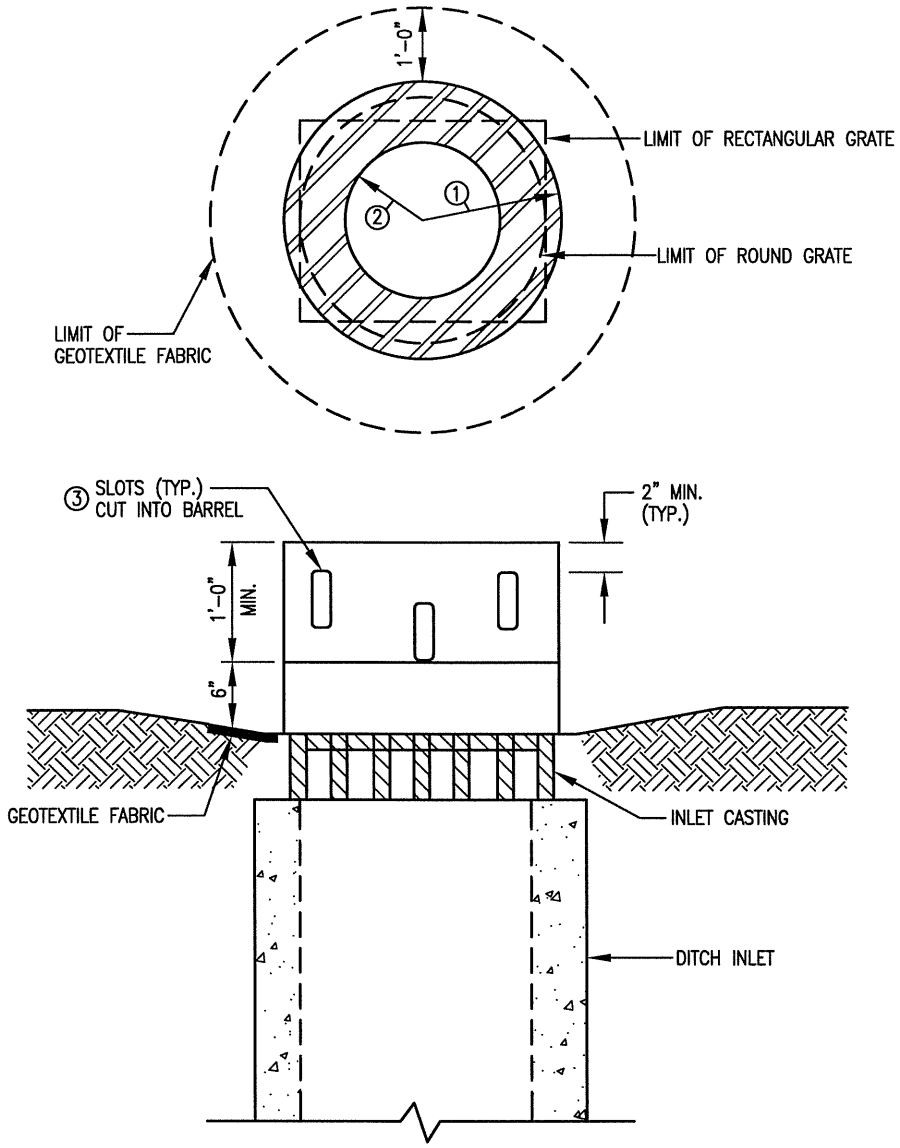
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

INLET PROTECTION
GRAVEL RING

SHT. NO.
I-5



NOTES:

① RADIUS SHALL BE EQUAL TO OR GREATER THAN THAT OF A ROUND CASTING GRATE, OR EQUAL TO, OR GREATER THAN HALF OF THE LONGER LENGTH OF A RECTANGULAR GRATE.

② DISTANCE SHALL BE GREATER THAN HALF OF THE RADIUS OF A ROUND GRATE, OR GREATER THAN ONE-QUARTER OF THE SHORTER LENGTH OF A RECTANGULAR GRATE.

③ SLOTS SHALL BE 5" MIN. HEIGHT BY 1" MIN. WIDTH.

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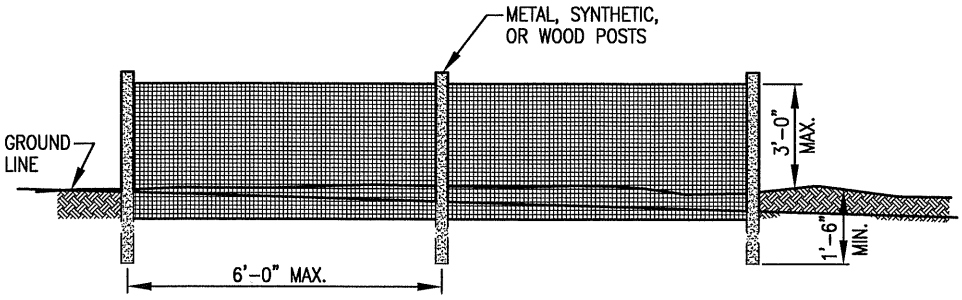
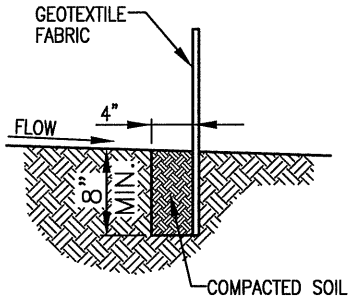
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

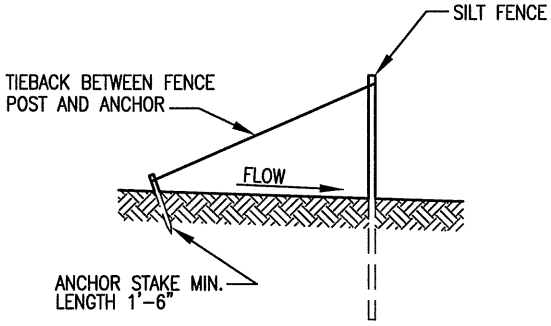
INLET PROTECTION SLOTTED BARREL

SHT. NO. I-6

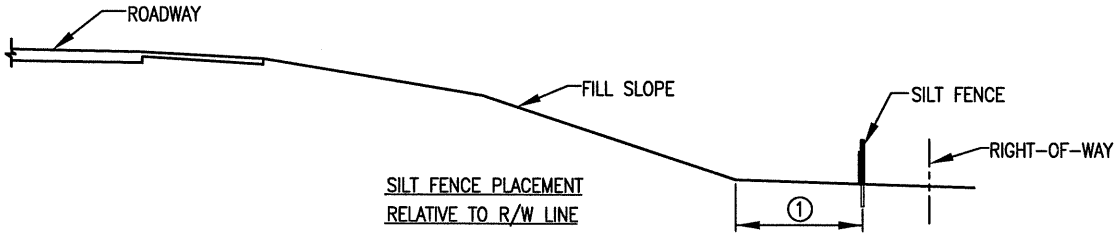




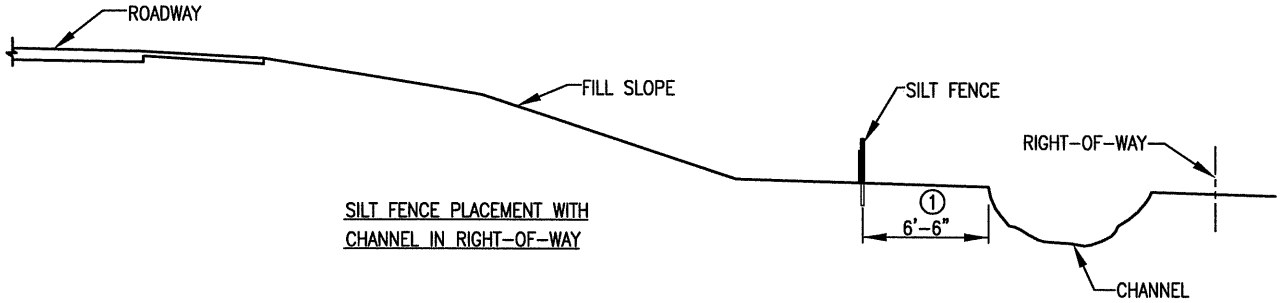
EMBEDMENT DETAIL



TIEBACK DETAIL



SILT FENCE PLACEMENT
RELATIVE TO R/W LINE



SILT FENCE PLACEMENT WITH
CHANNEL IN RIGHT-OF-WAY

NOTES:

① DIMENSIONS WILL VARY BASED ON RIGHT-OF-WAY AVAILABILITY. SILT FENCE SHALL BE PLACED AS CLOSE AS POSSIBLE TO EDGE OF CONSTRUCTION LIMITS.

② THE SPACING OF THE TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.

PREPARED BY: DLZ INDIANA, LLC

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4/23/07

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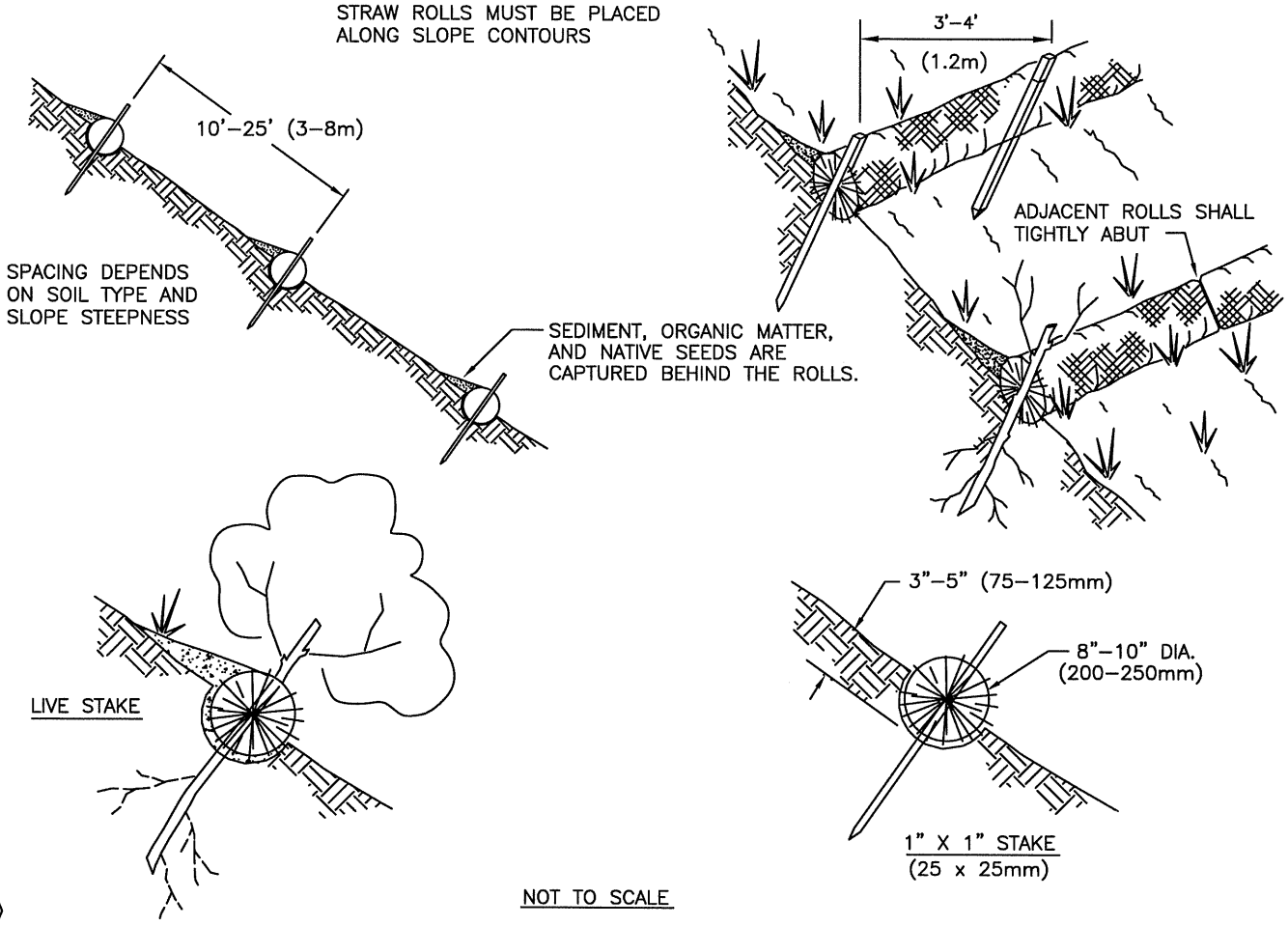
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

TEMPORARY SILT FENCE

SHT. NO. I-7



NOT TO SCALE

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DESCRIPTION:
STRAW WATTLES ARE ALSO KNOWN AS STRAW WORMS, BIO–LOGS, STRAW NOODLES, OR STRAW TUBES. THEY ARE A SEDIMENT VELOCITY CONTROL DEVICE MADE OF TUBES OF STRAW, RICE, OR COCONUT HUSK ENCASED IN AN ULTRAVIOLET DEGRADABLE PLASTIC NETTING OR 100% BURLAP MATERIAL.

WATTLES MAY BE SUITABLE ALONG THE TOE, TOP, FACE, AND AT GRADE BREAKS OF EXPOSED ERODIBLE SLOPES TO SHORTEN SLOPE LENGTH AND SPREAD RUNOFF AS SHEET FLOW; AT THE END OF A DOWNWARD SLOPE WHERE IT TRANSITIONS TO A STEEPER SLOPE; ALONG SIDEWALKS AND CURBS TO PREVENT SEDIMENT FROM WASHING INTO GUTTERS; AROUND STORM DRAINS AND DROP INLETS; DOWN–SLOPE OF EXPOSED SOIL AREAS; AROUND TEMPORARY MATERIAL SPOIL AND STOCKPILES, SUCH AS TOPSOIL AND FOR STREAM BANK PROTECTION.

MATERIALS:
WATTLES CAN BE FROM STRAW, RICE STRAW, COCONUT HUSKS OR OTHER APPROVED MATERIAL. THE NETTING CONSISTS OF BIODEGRADABLE BURLAP, OR HIGH DENSITY POLYETHYLENE AND ETHYL VINYL ACETATE CONTAINING ULTRAVIOLET INHIBITORS. STRAW SHOULD BE CERTIFIED WEED FREE FORAGE, BY A MANUFACTURER WHOSE PRINCIPLE BUSINESS IS WATTLE MANUFACTURING. COIR (COCONUT FIBER) CAN BE IN BRISTLE AND MATTRESS FORM AND SHOULD BE OBTAINED FROM FRESHWATER CURED COCONUT HUSK.

INSTALLATION:
- LAYOUT A CONTOUR LINE ON THE SLOPE.
- DIG A SHALLOW DEPRESSION (ABOUT 3 TO 5 INCHES DEEP), REMOVE ALL DEBRIS, AND LAY THE WATTLE INTO IT.
- SECURE WATTLE WITH WOODEN STAKES.
- TERMINATING ENDS SHOULD BE TURNED UPHILL (MIN 6") TO PREVENT RUNOFF FROM FLOWING AROUND THE ENDS.
- SEAT THE WATTLE WITH FOOT TAMPED BACKFILL ON THE UPSTREAM SIDE SUCH THAT WATER WILL NOT RUN UNDER IT.

RECOMMENDED WATTLE SPACING BY SLOPE:

SLOPE	9" DIA	12" DIA
LESS THAN 4:1	20 FT	40 FT
2:1 TO 4:1	15 FT	30 FT
2:1 OR GREATER	10 FT	20 FT

MAINTENANCE:
SEDIMENT SHOULD BE REMOVED ON A ROUTINE BASIS WHEN THE LEVEL OF THE SEDIMENT REACHES ONE HALF THE HEIGHT OF THE EXPOSED WATTLE. DAMAGED AREAS SHOULD BE REPAIRED IMMEDIATELY UNTIL VEGETATION IS ESTABLISHED AND GROWING THROUGH THE MATERIAL.

PREPARED BY: DLZ INDIANA, LLC

BRIAN K. ARTERBERY REGISTERED No. 19800103 STATE OF INDIANA PROFESSIONAL ENGINEER

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CITY OF MISHAWAKA, INDIANA

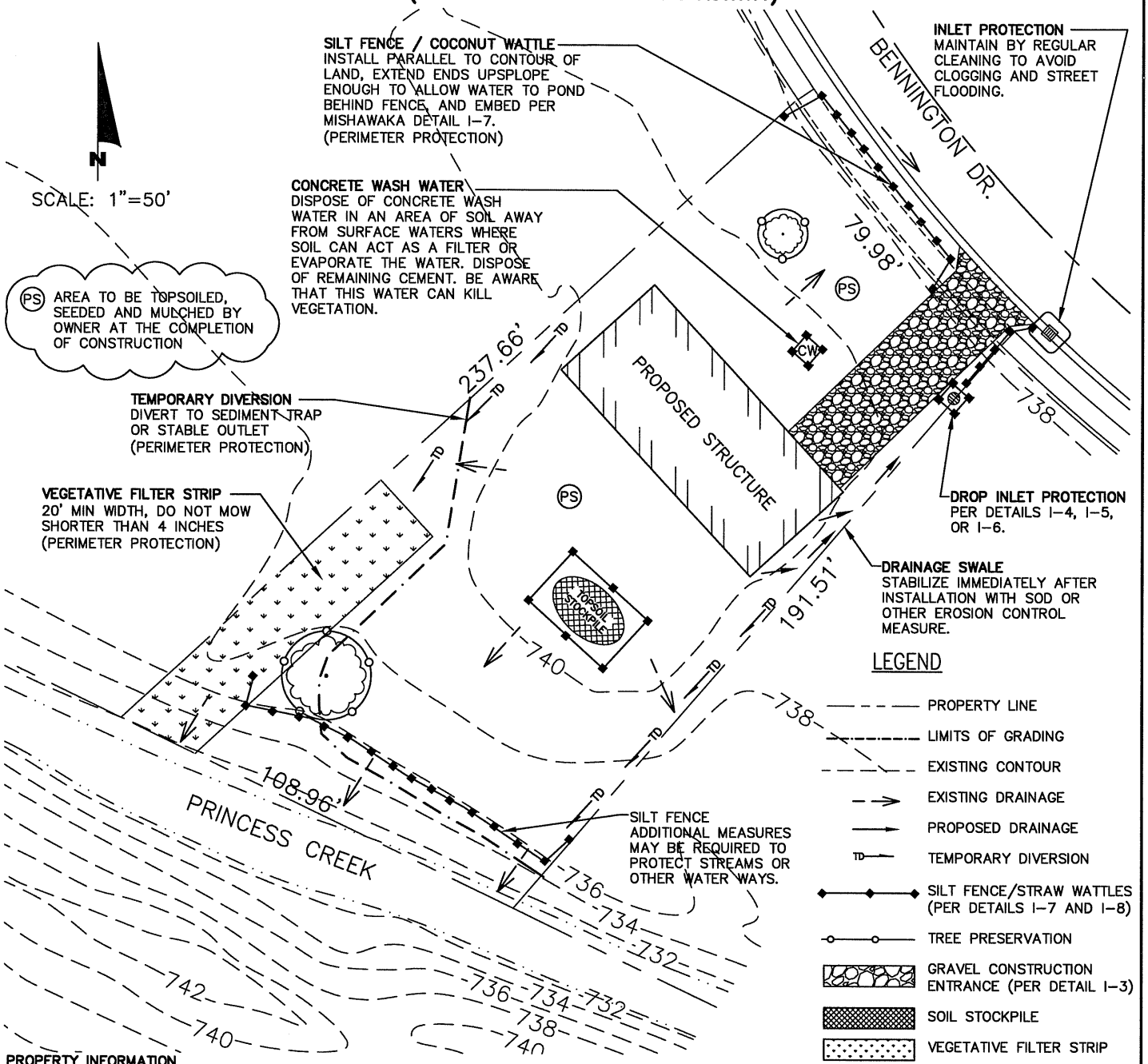
ENGINEERING STANDARDS

CONTOUR STRAW OR COCONUT WATTLE

SHT. NO. I-8

EXAMPLE EROSION CONTROL PLAN

(MODERATE LAND DISTURBING ACTIVITY)



LEGEND

- PROPERTY LINE
- LIMITS OF GRADING
- EXISTING CONTOUR
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- TD — TEMPORARY DIVERSION
- SILT FENCE/STRAW WATTLES (PER DETAILS I-7 AND I-8)
- TREE PRESERVATION
- GRAVEL CONSTRUCTION ENTRANCE (PER DETAIL I-3)
- SOIL STOCKPILE
- VEGETATIVE FILTER STRIP
- (PS) VEGETATION SPECIFICATION

PROPERTY INFORMATION
OWNER: PROPERTY OWNER
ADDRESS
PHONE NUMBER

CONTRACTOR: CONTRACTOR NAME
ADDRESS
PHONE NUMBER

PROJECT INFORMATION
ADDRESS:
SITE SIZE (ACRES):
TAX LOT NO.:
SECTION:
TOWNSHIP:
SITE RUNOFF DRAINS TO:

CONSTRUCTION SEQUENCE FOR EROSION CONTROL

1. EVALUATE THE SITE
2. INSTALL PERIMETER EROSION & SEDIMENT CONTROLS
   ANTICIPATED START OF EXCAVATION
   DATE: _____
3. PREPARE THE SITE FOR CONSTRUCTION
4. BUILD STRUCTURE(S) & INSTALL UTILITIES
   CONSTRUCTION COMPLETE (SOIL NOT STABILIZED) **DATE:** _____
5. MAINTAIN CONTROL PRACTICES
6. REVEGETATE SITE
7. REMOVE REMAINING TEMPORARY CONTROL MEASURES
   ANTICIPATED COMPLETION (GROUND COVER ESTABLISHED) **DATE:** _____

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CITY OF MISHAWAKA, INDIANA

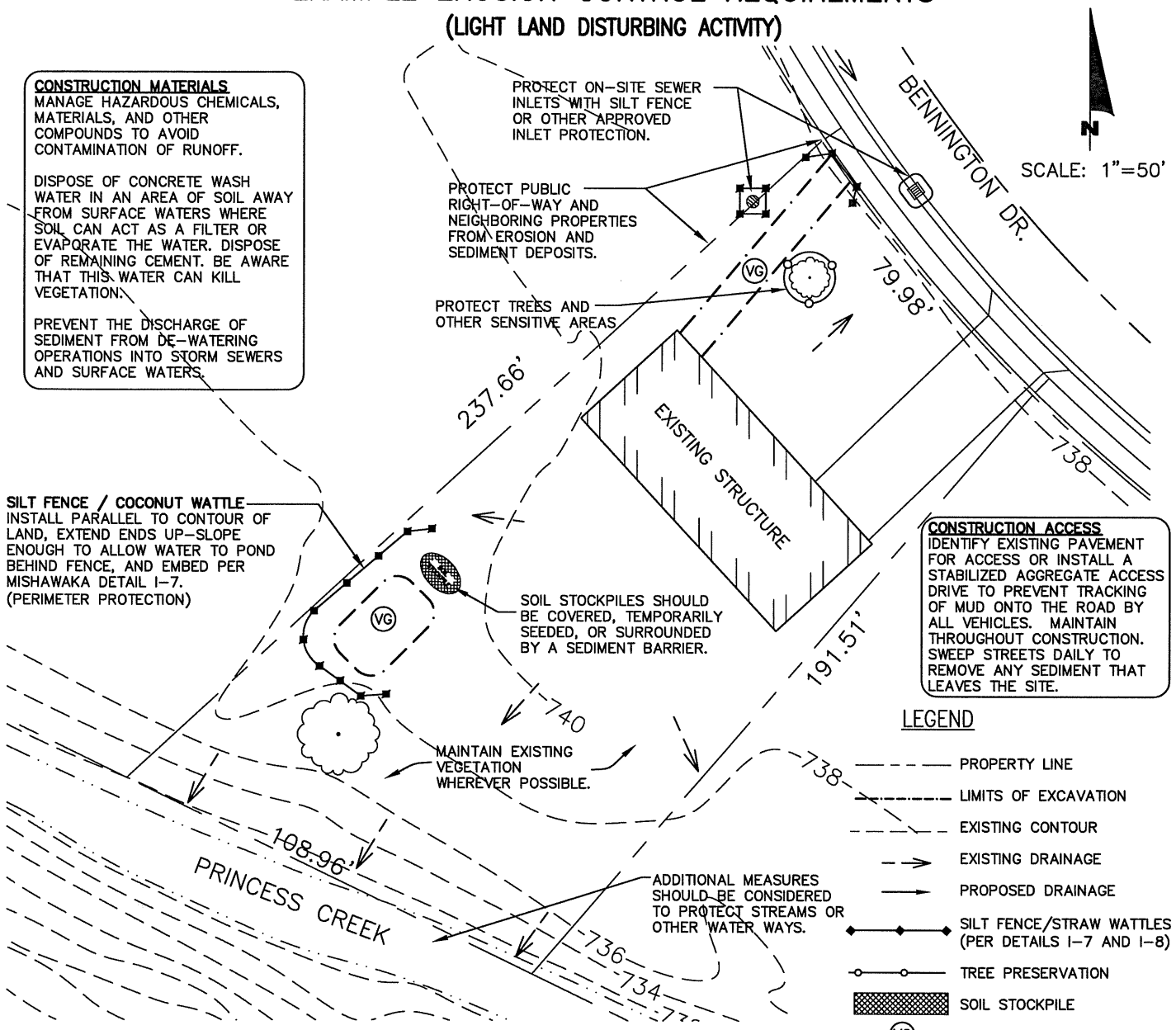
ENGINEERING STANDARDS

EROSION CONTROL– MODERATE LAND DISTURBING

SHT. NO. I-9

EXAMPLE EROSION CONTROL REQUIREMENTS

(LIGHT LAND DISTURBING ACTIVITY)



GENERAL PRINCIPLES OF EROSION & SEDIMENT CONTROL

1. EVALUATE THE SITE BEFORE LAND DISTURBING ACTIVITIES BEGIN.
   - DEVELOP PLAN AND FOLLOW IT
2. RETAIN EXISTING VEGETATION WHEREVER POSSIBLE.
   - IDENTIFY VEGETATION TO BE SAVED
   - PROTECT TREES & SENSITIVE AREAS
3. MINIMIZE THE EXTENT AND DURATION THAT BARE SOIL IS EXPOSED TO EROSION.
   - USE STAGED CONSTRUCTION WHEN POSSIBLE
   - STABILIZE SOIL AFTER EACH STAGE (SEE NO. 6)
4. KEEP SEDIMENT ON THE CONSTRUCTION SITE.
   - USE SILT FENCE, STRAW WATTLES, SEDIMENT BASINS, ETC TO FILTER RUNOFF.
5. IF POSSIBLE, DIVERT OFF-SITE RUNOFF AWAY FROM DISTURBED AREAS.
   - USE DIVERSIONS TO REDUCE THE POTENTIAL FOR EROSION.
6. STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
   - USE STABILIZING MEASURES, SUCH AS SEEDING, TEMPORARY AND PERMANENT VEGETATION, SODDING, MULCHING, EROSION CONTROL BLANKETS, OR OTHER PROTECTIVE PRACTICES.
7. INSPECT AND REPAIR EROSION CONTROL MEASURES REGULARLY AND AFTER EACH STORM EVENT.
8. MAINTAIN EROSION CONTROL MEASURES IN PLACE UNTIL GROUND COVER IS ESTABLISHED (WHICH COULD BE THE NEXT GROWING SEASON).

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CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

EROSION CONTROL–
LIGHT LAND DISTURBING

SHT. NO.
I-10

CONSTRUCTION SEQUENCE & COMMON PRACTICES FOR EROSION & SEDIMENT CONTROL

1. EVALUATE THE SITE

BEFORE CONSTRUCTION, EVALUATE THE SITE; MARK VEGETATIVE AREAS AND TREES TO BE PROTECTED, UNIQUE AREAS TO PRESERVE, ON-SITE SEPTIC SYSTEM ABSORPTION FIELDS, AND VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PERIMETER AREAS.

IDENTIFY VEGETATION TO BE SAVED
SELECT AND IDENTIFY THE TREES, SHRUBS AND OTHER VEGETATION TO BE SAVED (SEE STEP 2: "VEGETATIVE FILTER STRIPS").

PROTECT TREES & SENSITIVE AREAS
- TO PREVENT ROOT DAMAGE, DO NOT GRADE, BURN, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES OR IN AREAS MARKED FOR PRESERVATION.
- PLACE PLASTIC MESH OR SNOW FENCE BARRIERS AROUND THE TREES' DRIPLINES TO PROTECT THE AREA BELOW THEIR BRANCHES.
- PLACE A PHYSICAL BARRIER, SUCH AS PLASTIC FENCING, AROUND THE AREA DESIGNATED FOR A SEPTIC SYSTEM ABSORPTION FIELD (IF APPLICABLE).

2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS

IDENTIFY THE AREAS WHERE SEDIMENTLADEN RUNOFF COULD LEAVE THE CONSTRUCTION SITE, AND INSTALL PERIMETER CONTROLS TO INIMIZE THE POTENTIAL FOR OFF-SITE SEDIMENTATION. IT'S IMPORTANT THAT PERIMETER CONTROLS ARE IN PLACE BEFORE ANY EARTHMOVING ACTIVITIES BEGIN.

PROTECT DOWN-SLOPE AREAS WITH VEGETATIVE FILTER STRIPS
- ON SLOPES OF LESS THAN SIX PERCENT, PRESERVE A 20-TO 30-FOOT WIDE (MINIMUM) VEGETATIVE BUFFER STRIP AROUND THE PERIMETER OF THE PROPERTY, AND USE IT AS A FILTER STRIP FOR TRAPPING SEDIMENT.
- DO NOT MOW FILTER STRIP VEGETATION SHORTER THAN FOUR INCHES.

PROTECT DOWN-SLOPE AREAS WITH SILT FENCES AND OTHER APPROPRIATE PRACTICES
- USE SILT FENCING ALONG THE PERIMETER OF THE LOT'S DOWNSLOPE SIDE(S) TO TRAP SEDIMENT. REFER TO SILT FENCES PRACTICES.

INSTALL GRAVEL DRIVE
- RESTRICT ALL LOT ACCESS TO THIS DRIVE TO PREVENT VEHICLES FROM TRACKING MUD ONTO ROADWAYS. REFER TO GRAVEL CONSTRUCTION ENTRANCES.

PROTECT STORM SEWER INLETS
CURB INLET PROTECTION DEVICES ARE NOT EFFICIENT IN REMOVING SEDIMENT FROM STORMWATER RUNOFF. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INCORPORATED INTO THE PLAN AND THE DAY-TO-DAY CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF SEDIMENT ENTERING A STREET. THE BEST DEFENSE IN CONTROLLING SEDIMENTATION IS THE INSTALLATION OF PERIMETER PROTECTION DOWNSLOPE OF THE CONSTRUCTION ACTIVITY USING GRAVEL CONSTRUCTION ENTRANCES AND DAILY CLEANING AND REMOVAL OF SEDIMENT FROM STREETS. EVEN WITH THESE MEASURES IMPLEMENTED, SEDIMENT AND TRACKED SOIL WILL FIND THEIR WAY INTO THE STREET. "THE INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" CONTAINS STANDARDS AND SPECIFICATIONS FOR SEVERAL CURB INLET PROTECTION DEVICES AND THERE ARE A NUMBER OF COMMERCIAL CURB INLET PROTECTION DEVICES ON THE MARKET THAT ARE DESIGNED TO CAPTURE SEDIMENT. HOWEVER, THESE PRACTICES ARE NOT DESIGNED TO TRAP LARGE AMOUNTS OF SEDIMENT AND REQUIRE FREQUENT MAINTENANCE IF THEY ARE TO REMAIN EFFECTIVE. WHEN SELECTING A CURB INLET PROTECTION MEASURE, IT IS IMPORTANT TO SELECT A DEVICE THAT DOES NOT BLOCK THE INLET ENTIRELY. TOTAL OBSTRUCTION OF THE INLET WILL CAUSE EXCESSIVE PONDING AND IN SOME SITUATIONS BYPASS FLOW THAT MAY RESULT IN EROSION.

- PROTECT ON-SITE STORM SEWER DROP INLETS WITH SILT FENCE MATERIAL, STRAW BALES, OR EQUIVALENT MEASURES. REFER TO DROP INLET PROTECTION DIAGRAM.

3. PREPARE THE SITE FOR CONSTRUCTION

PREPARE THE SITE FOR CONSTRUCTION AND FOR INSTALLATION OF UTILITIES. MAKE SURE ALL CONTRACTORS (ESPECIALLY THE EXCAVATING CONTRACTOR) ARE AWARE OF AREAS TO BE PROTECTED.

SALVAGE AND STOCKPILE TOPSOIL OR SUBSOIL
- REMOVE TOPSOIL (TYPICALLY THE UPPER FOUR TO SIX INCHES OF THE SOIL MATERIAL) AND STOCKPILE.
- REMOVE SUBSOIL, INCLUDING ANY EXCAVATED MATERIAL ASSOCIATED WITH BASEMENT CONSTRUCTION, AND STOCKPILE SEPARATELY FROM THE TOPSOIL.
- ON SMALL BUILDING SITES, IT MAY NOT BE FEASIBLE TO STOCKPILE SOIL MATERIAL ON EACH INDIVIDUAL LOT DUE TO SPACE LIMITATIONS. IN THESE SITUATIONS, SOIL MATERIAL SHOULD BE TRANSPORTED TO PROTECTED AREAS DESIGNATED ON THE OVERALL CONSTRUCTION PLAN OR THOSE AREAS DESIGNATED BY THE DEVELOPER.
- LOCATE THE STOCKPILES AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.
- IMMEDIATELY AFTER STOCKPILING, TEMPORARY SEED THE STOCKPILES WITH ANNUAL RYE OR WINTER WHEAT AND/OR INSTALL SEDIMENT BARRIERS AROUND THE PERIMETER OF THE PILES.

4. BUILD STRUCTURE(S) AND INSTALL UTILITIES

CONSTRUCT THE HOME AND INSTALL THE UTILITIES; ALSO INSTALL THE SEWAGE DISPOSAL SYSTEM AND DRILL WATER WELL (IF APPLICABLE); THEN CONSIDER THE FOLLOWING:

INSTALL DOWNSPOUT EXTENDERS
- ALTHOUGH NOT REQUIRED, DOWNSPOUT EXTENDERS ARE HIGHLY RECOMMENDED AS A MEANS OF PREVENTING LOT EROSION FROM ROOF RUNOFF.
- ADD THE EXTENDERS AS SOON AS THE GUTTERS AND DOWNSPOUTS ARE INSTALLED.
- BE SURE THE EXTENDERS HAVE A STABLE OUTLET, SUCH AS A PAVED AREA, OR A WELL VEGETATED AREA. DO NOT ROUTE RUNOFF DIRECTLY TO A STREET IN WINTER DUE TO THE FORMATION OF ICE. REFER TO TEMPORARY DOWNSPOUT EXTENDERS DIAGRAM.

MAINTAIN CONTROL PRACTICES
MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL CONSTRUCTION IS COMPLETED AND THE LOT IS STABILIZED.

- INSPECT THE CONTROL PRACTICES A MINIMUM OF TWICE A WEEK AND AFTER EACH STORM EVENT, MAKING ANY NEEDED REPAIRS IMMEDIATELY.
- TOWARD THE END OF THE EACH WORK DAY, SWEEP OR SCRAPE UP ANY SOIL TRACKED ONTO ROADWAY(S). DO NOT FLUSH AREAS WITH WATER.

REVEGETATE BUILDING SITE
IMMEDIATELY AFTER ALL OUTSIDE CONSTRUCTION ACTIVITIES ARE COMPLETED, STABILIZE THE LOT WITH SOD, SEED, AND/OR MULCH.
REDISTRIBUTE THE STOCKPILED SUBSOIL AND TOPSOIL

- SPREAD THE STOCKPILED SUBSOIL TO ROUGH GRADE.
- SPREAD THE STOCKPILED TOPSOIL TO A DEPTH OF FOUR TO SIX INCHES OVER ROUGH GRADED AREAS.
- FERTILIZE AND LIME ACCORDING TO SOIL TEST RESULTS OR RECOMMENDATIONS OF A SEED SUPPLIER OR A PROFESSIONAL LANDSCAPING CONTRACTOR.
SEED OR SOD BARE AREAS
- CONTACT LOCAL SEED SUPPLIERS OR PROFESSIONAL LANDSCAPING CONTRACTORS FOR RECOMMENDED SEEDING MIXTURES AND RATES.
- FOLLOW RECOMMENDATIONS OF A PROFESSIONAL LANDSCAPING CONTRACTOR FOR INSTALLATION OF SOD.
- WATER NEWLY SEEDED OR SODDED AREAS EVERY DAY OR TWO TO KEEP THE SOIL MOIST. LESS WATERING IS NEEDED ONCE GRASS IS TWO INCHES TALL.
MULCH NEWLY SEEDED AREAS
- SPREAD STRAW MULCH ON NEWLY SEEDED AREAS, USING ONE AND ONEHALF TO TWO BALES OF STRAW PER 1,000 SQUARE FEET.
- ON FLAT OR GENTLY SLOPING LAND, ANCHOR THE MULCH BY CRIMPING IT TWO TO FOUR INCHES INTO THE SOIL. ON STEEP SLOPES, ANCHOR THE MULCH WITH NETTING OR TACKIFIERS. AN ALTERNATIVE TO ANCHORED MULCH WOULD BE THE USE OF EROSION CONTROL BLANKETS.

7. REMOVE REMAINING TEMPORARY CONTROL MEASURES

ONCE THE SOD AND/OR VEGETATION IS WELL ESTABLISHED, REMOVE ANY REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES, SUCH AS:

- REMOVE DOWNSPOUT EXTENDERS. OR, SHORTEN TO OUTLET ON AN ESTABLISHED VEGETATED AREA, ALLOWING FOR MAXIMUM FILTRATION.
- REMOVE STORM SEWER INLET PROTECTION MEASURES.

PREPARED BY: DLZ INDIANA, LLC

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EFFECTIVE DATE: APRIL 2007

ITEM	REVISION	APPROVED DATE

CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

EROSION CONTROL-
CONSTRUCTION SEQUENCE

SHT. NO.
I-11