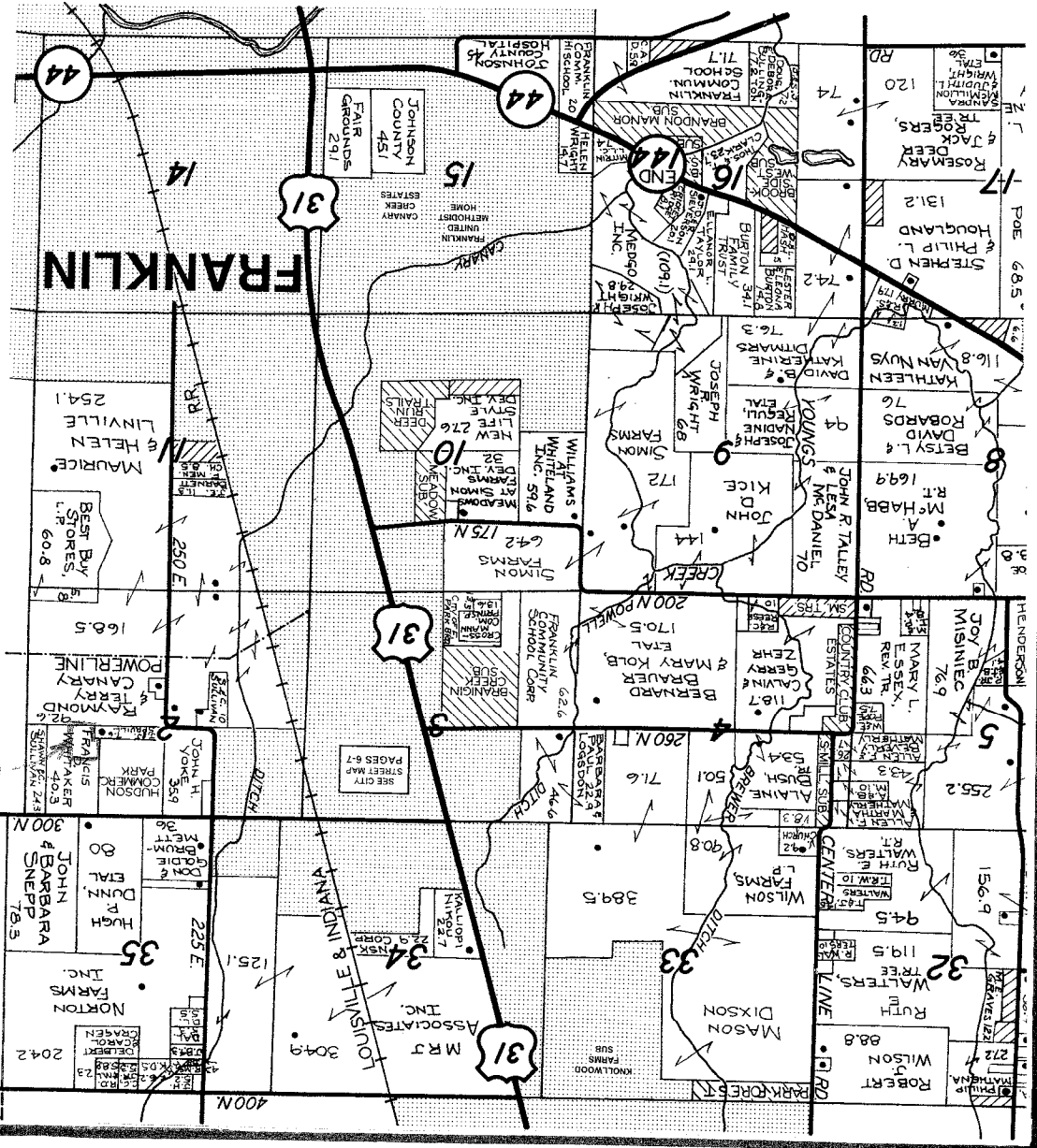




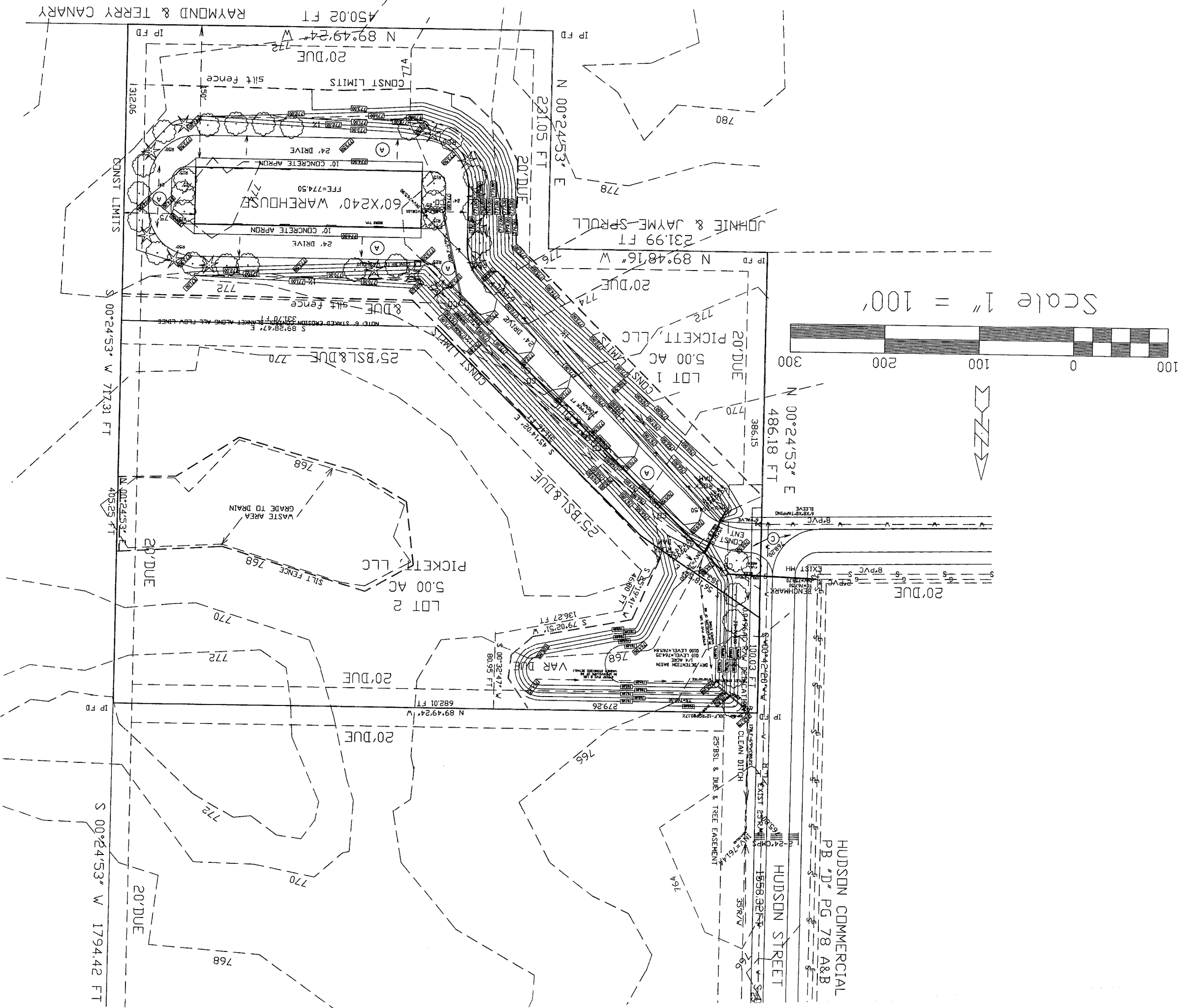
- INDEX
1. TITLE SHEET
 2. EXISTING SITE CONDITIONS SURVEY PLAT
 3. SITE PLAN
 4. EROSION CONTROL AND LANDSCAPING
 5. EROSION CONTROL INDEX
 6. EROSION CONTROL DETAILS

UTILITY CONTACTS

INDIANA AMERICAN WATER CO. 317-881-0270
VECTREN ENERGY DELIVERY 1-800-227-1376
EMBARQ (CENTURY LINK) 811
DUKE ENERGY 317-736-3640
FRANKLIN DPW 317-535-4198
COMCAST

OWNERS:
PICKETT, LLC
200 EARLYWOOD DRIVE
FRANKLIN, IN 46131

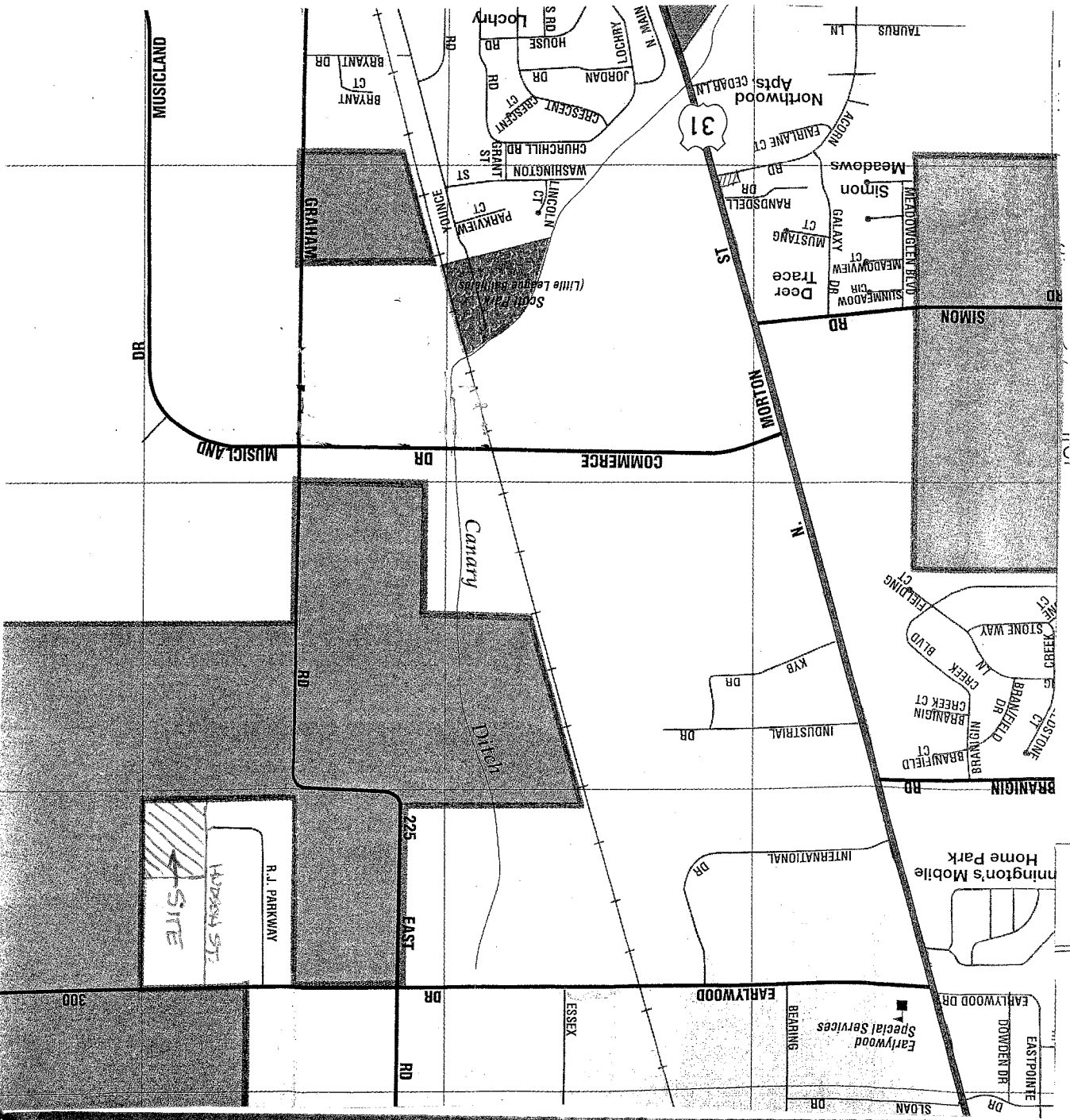
PICKETT EQUIPMENT AND RENTAL, INC.
NEW 60'X40' WAREHOUSE PROJECT
SITE CONSTRUCTION PLANS
3011 HUDSON STREET, FRANKLIN



STEVEN B. WILLIAMS, P.E., L.S.
PROFESSIONAL ENGINEER NO. 17207

LEGAL DESCRIPTION

A part of the Northeast Quarter of Section 2, Township 12 North, Range 4 East of the Second Principal Meridian, Franklin Township, Johnson County, Indiana more particularly described as follows:
Commencing at the southwest corner of said northeast quarter thence North 01 degrees 27 minutes 52 seconds East a distance of 1783.29 feet along the west line of said northeast quarter to the northwest corner thereof; thence North 89 degrees 59 minutes 05 seconds East a distance of 359.86 feet along the north line thereof to the southeast corner of the southeast quarter of Section 35, Township 13 North, Range 4 East; thence North 89 degrees 45 minutes 38 seconds East a distance of 751.11 feet along the south line of said southeast quarter; thence South 00 degrees 24 minutes 53 seconds West a distance of 1072.16 feet to the point of beginning; thence South 89 degrees 49 minutes 24 seconds East a distance of 682.01 feet; thence South 00 degrees 24 minutes 53 seconds West a distance of 717.31 feet parallel to the east line of said northeast quarter of Section 2; thence North 89 degrees 49 minutes 24 seconds West a distance of 450.02 feet; thence North 00 degrees 16 minutes 53 seconds East a distance of 231.05 feet; thence North 89 degrees 48 minutes 16 seconds West a distance of 231.99 feet; thence North 00 degrees 53 seconds East a distance of 486.18 feet to the Point of Beginning, containing 10.000 acres, more or less, subject to all legal rights-of-way and easements of record.

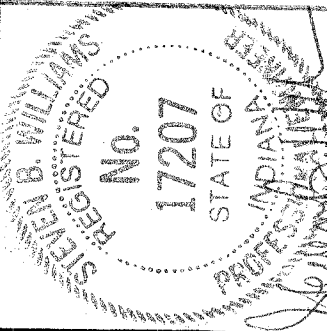


Steven B. Williams
Engineering and Surveying
8868 State Road 200, Evansville, Indiana 47710
Phone: 817-660-7780, Fax: 817-535-1864



LEGAL DESCRIPTION
A part of the Northeast Quarter of Section 2, Township 12 North, Range 4 East of the Second Principal Meridian, Franklin Township, Johnson County, Indiana more particularly described as follows:

Commencing at the southwest corner of said northeast quarter thence North 01 degrees 23 minutes 52 seconds East a distance of 1783.29 feet along the west line of said northeast quarter to the northwest corner thereof; thence North 89 degrees 59 minutes 05 seconds East (prior survey reference bearing) a distance of 359.86 feet along the north line thereof to the southwest corner of the southeast quarter of Section 35, Township 13 North, Range 4 East; thence North 89 degrees 45 minutes 38 seconds East a distance of 751.11 feet along the south line of said southeast quarter; thence South 00 degrees 24 minutes 35 seconds West a distance of 1072.16 feet to the point of beginning; thence South 89 degrees 49 minutes 24 seconds East a distance of 682.01 feet; thence South 00 degrees 24 minutes 35 seconds West a distance of 1717.51 feet parallel to the east line of said northeast quarter of Section 2, thence North 89 degrees 49 minutes 24 seconds West a distance of 1783.29 feet to the northwest corner thereof; thence North 89 degrees 59 minutes 05 seconds East a distance of 359.86 feet to the southwest corner of the southeast quarter of Section 35, Township 13 North, Range 4 East; thence North 89 degrees 45 minutes 38 seconds East a distance of 751.11 feet to the point of beginning, containing 10.000 acres, more or less, subject to all legal rights-of-way and easements of record.

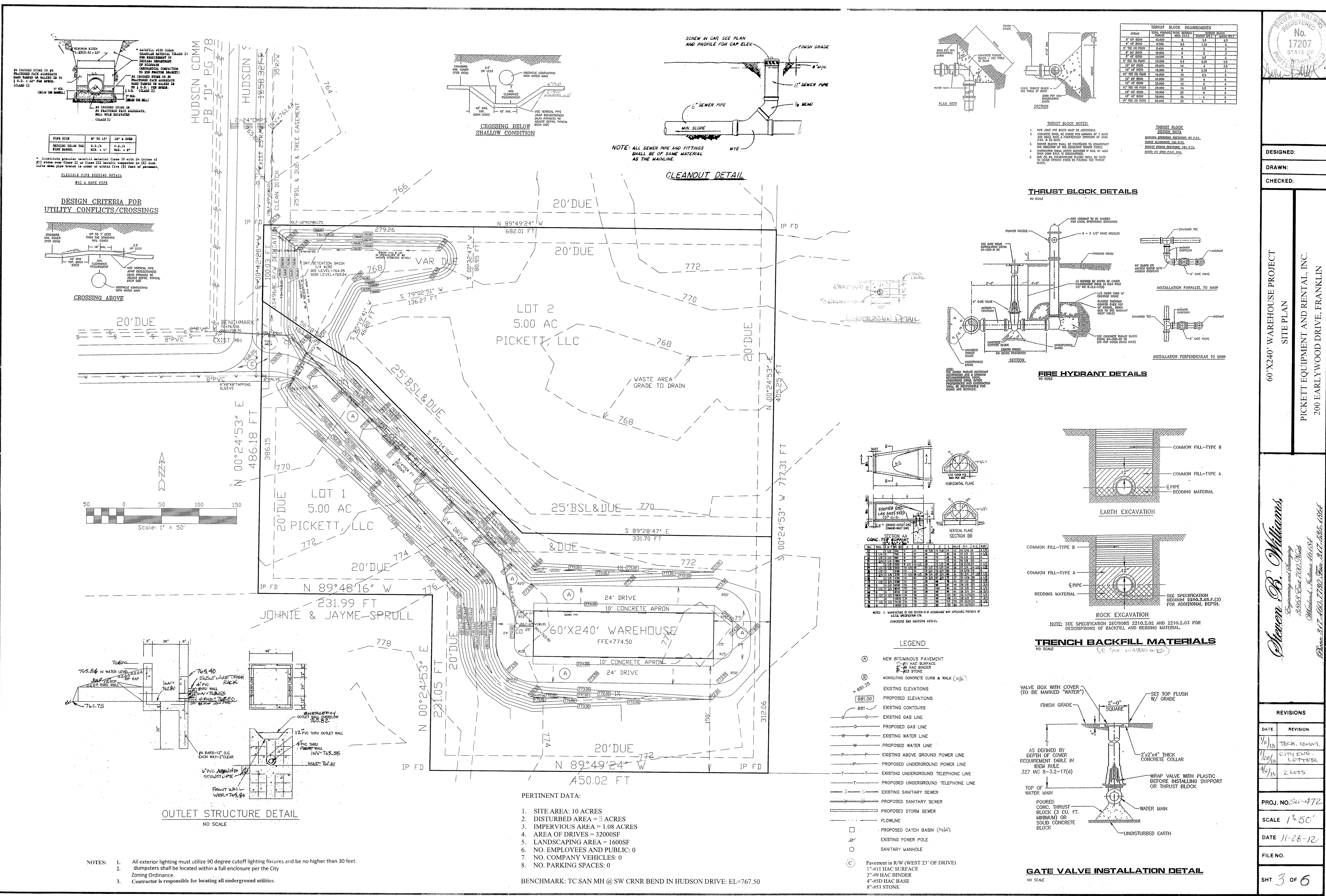


DESIGNED:
DRAWN:
CHECKED:

60' X 240' WAREHOUSE PROJECT
EXISTING SITE CONDITIONS SURVEY PLAT
PICKETT EQUIPMENT AND RENTAL, INC.
200 EARLYWOOD DRIVE, FRANKLIN

Steven B. Williams
Engineering and Surveying
2886 S. State Road 100, Ellettsville, Indiana 47404-1514
Phone: 317-460-2780 Fax: 317-595-1864

REVISIONS	
DATE	REVISION
1/15/12	REMOVE 13.42 AC
1/15/12	FROM PLAT
1/15/12	TECH. CORR.
1/26/12	J. MYERS/LOTTER
PROJ. NO. 09-412	
SCALE 1"=60'	
DATE 11-28-12	
FILE NO.	
SHT 2 OF 5	



SEVEN B. WILLIAMS
REGISTERED
No. 17207
STATE OF INDIANA

DESIGNED:
DRAWN:
CHECKED:

60'X240' WAREHOUSE PROJECT
SITE PLAN
PICKETT EQUIPMENT AND RENTAL, INC.
200 EARLYWOOD DRIVE, FRANKLIN

Steven B. Williams
Engineering and Design
2505 E. 700 North
Mishawaka, Indiana 46545
Phone: 317-462-7792 Fax: 317-585-1864

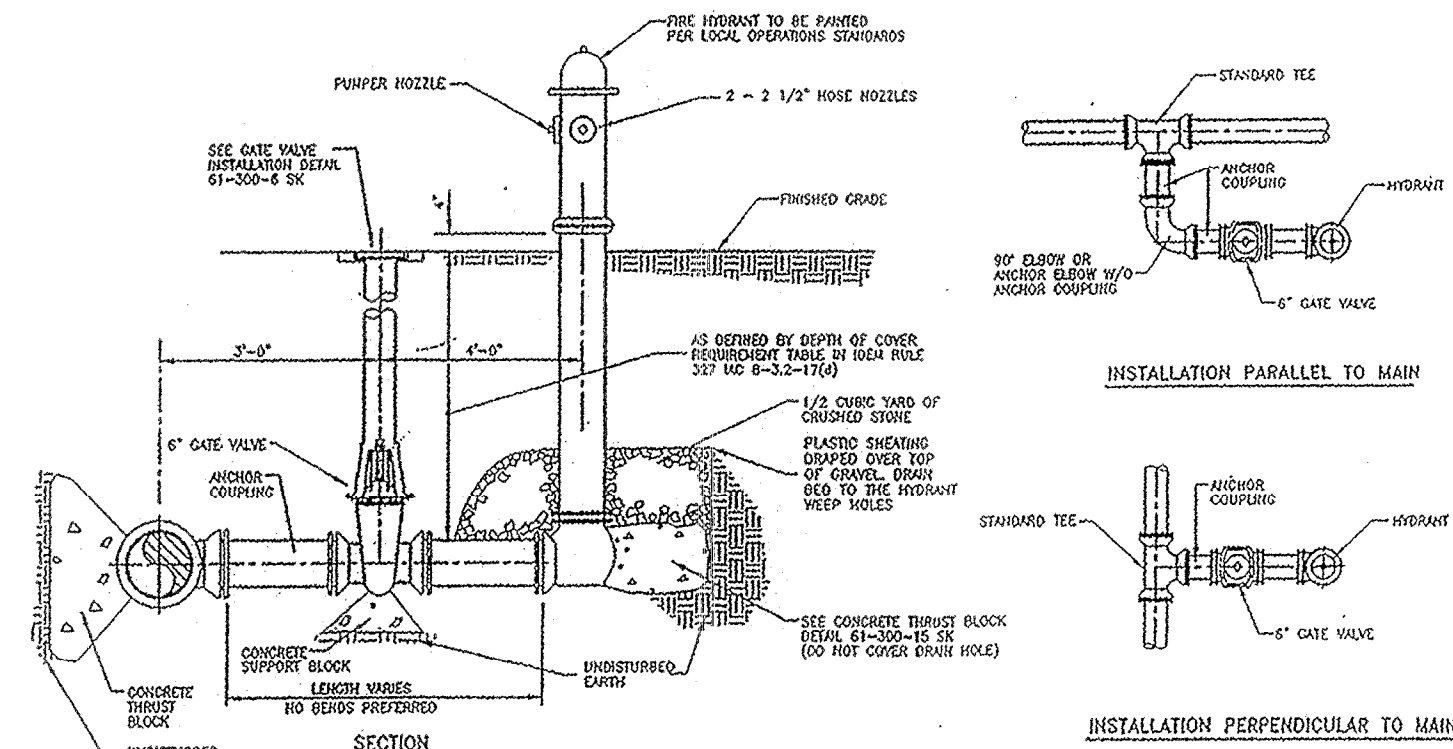
REVISIONS	
DATE	REVISION
1/11/13	TECH. COMM.
1/28/13	CITY ENG. LETTER
4/15/13	2 LOTS
PROJ. NO. SW-472	
SCALE 1"=50'	
DATE 11-28-12	
FILE NO.	
SHT 3 OF 6	

THRUST BLOCK REQUIREMENTS			
PIPE SIZE	MIN. COVER (FEET)	MIN. EMBEDED LENGTH (FEET)	MIN. EMBEDED AREA (SQ. FT.)
4" OR 6" R/W	12.000	5	2.5
8" OR 10" R/W	12.000	5	3.5
12" OR 14" R/W	12.000	5	5.5
16" OR 18" R/W	12.000	5	7.5
20" OR 22" R/W	12.000	5	10.0
24" OR 26" R/W	12.000	5	13.0
30" OR 32" R/W	12.000	5	16.0
36" OR 38" R/W	12.000	5	20.0
42" OR 44" R/W	12.000	5	25.0
48" OR 50" R/W	12.000	5	30.0
54" OR 56" R/W	12.000	5	35.0
60" OR 62" R/W	12.000	5	40.0

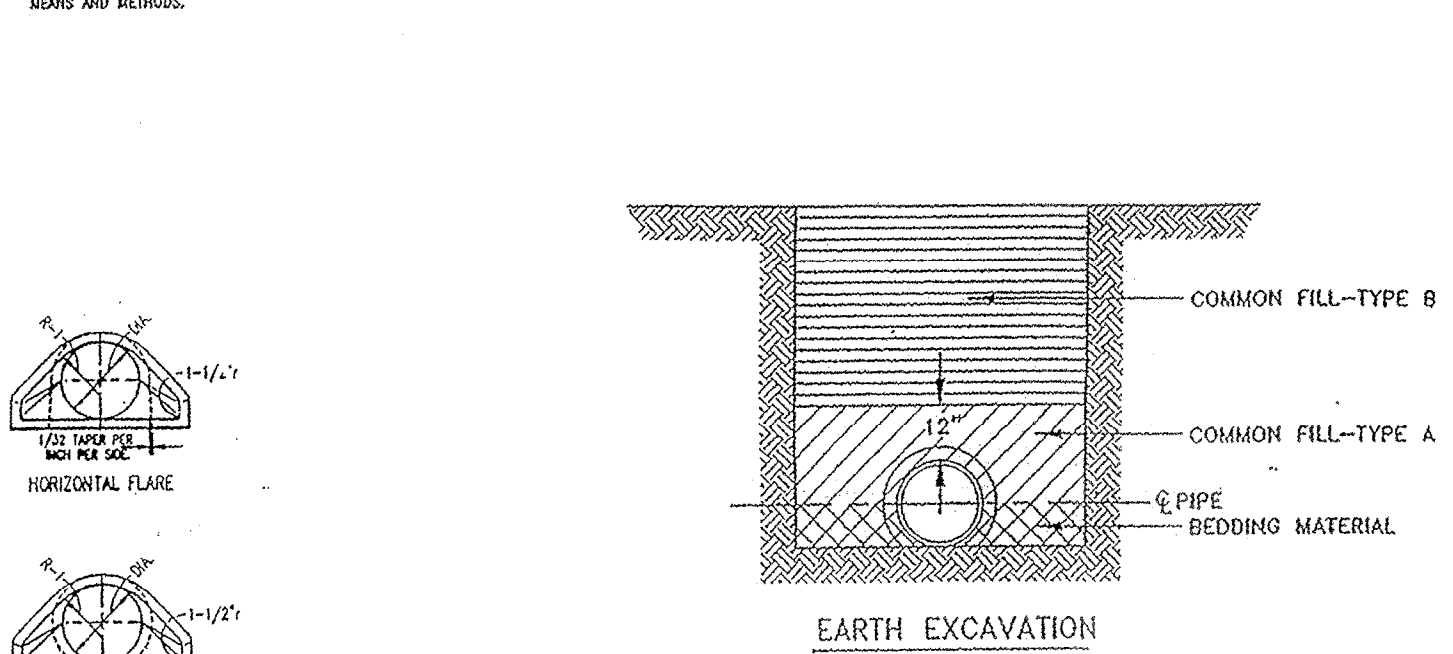
- THRUST BLOCK NOTES:
- PIPE JOINT AND BOLTS MUST BE ACCESSIBLE.
 - CONCRETE SHALL BE CURED FOR MINIMUM OF 7 DAYS AND SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 P.S.I. & 28 DAYS.
 - THRUST BLOCK SHALL BE PROPORTIONED TO COMPENSATE THE WEIGHT OF THE EJECTOR THROTTLE PISTON.
 - CONCRETE SHALL HAVE A MINIMUM OF 10% AIR.
 - PIPE JOINT SHALL BE PROTECTED BY A 2" THICK CONCRETE CURB.

THRUST BLOCK DESIGN DATA
MINIMUM EMBEDED LENGTH: 5 FT.
MINIMUM EMBEDED AREA: 2.5 SQ. FT.
MINIMUM EMBEDED LENGTH: 5 FT.
MINIMUM EMBEDED AREA: 2.5 SQ. FT.

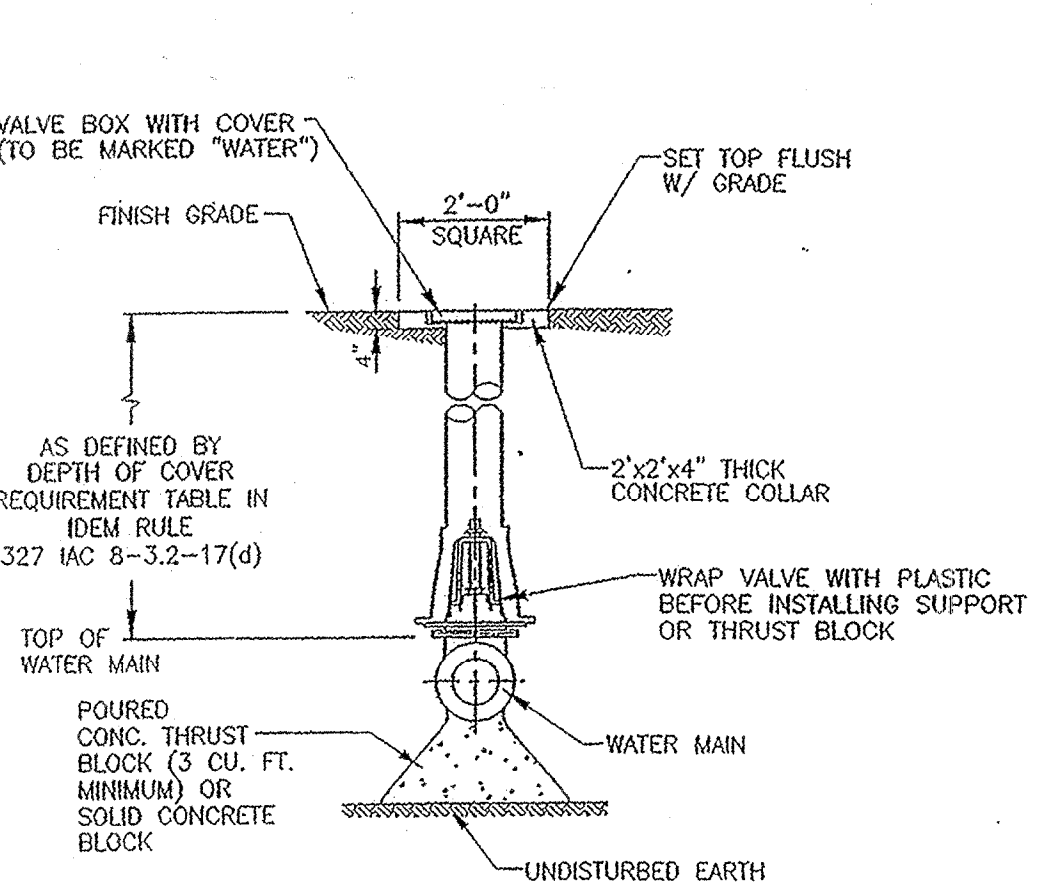
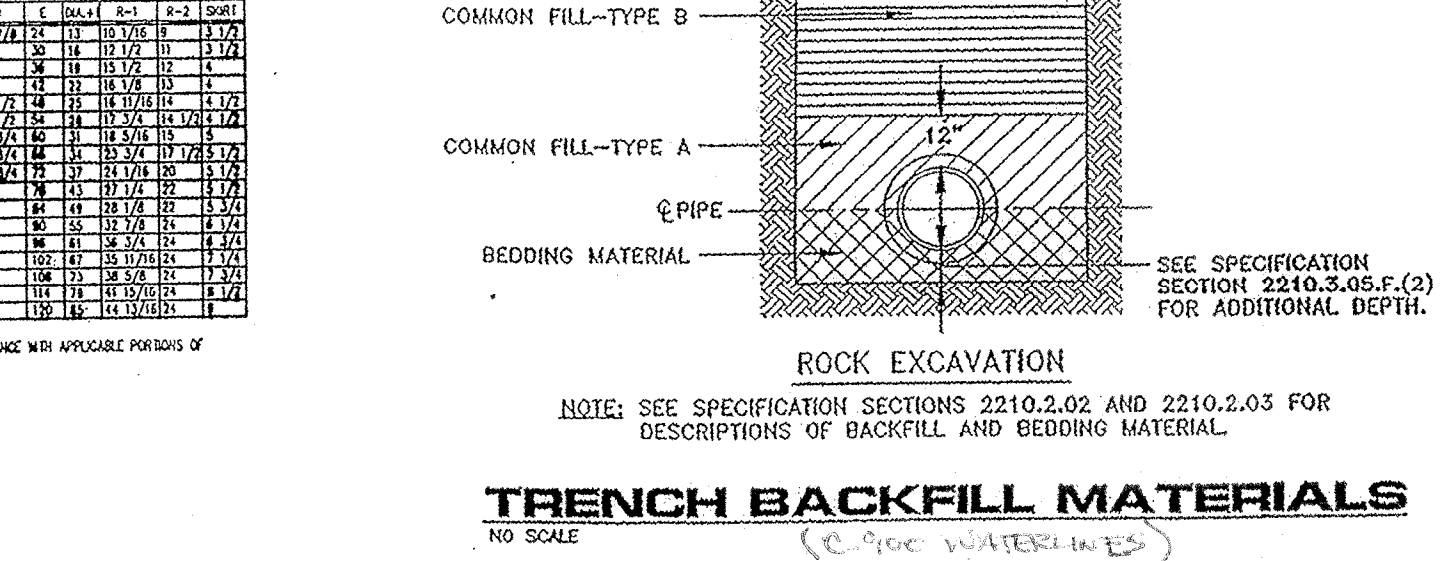
THRUST BLOCK DETAILS



FIRE HYDRANT DETAILS



TRENCH BACKFILL MATERIALS



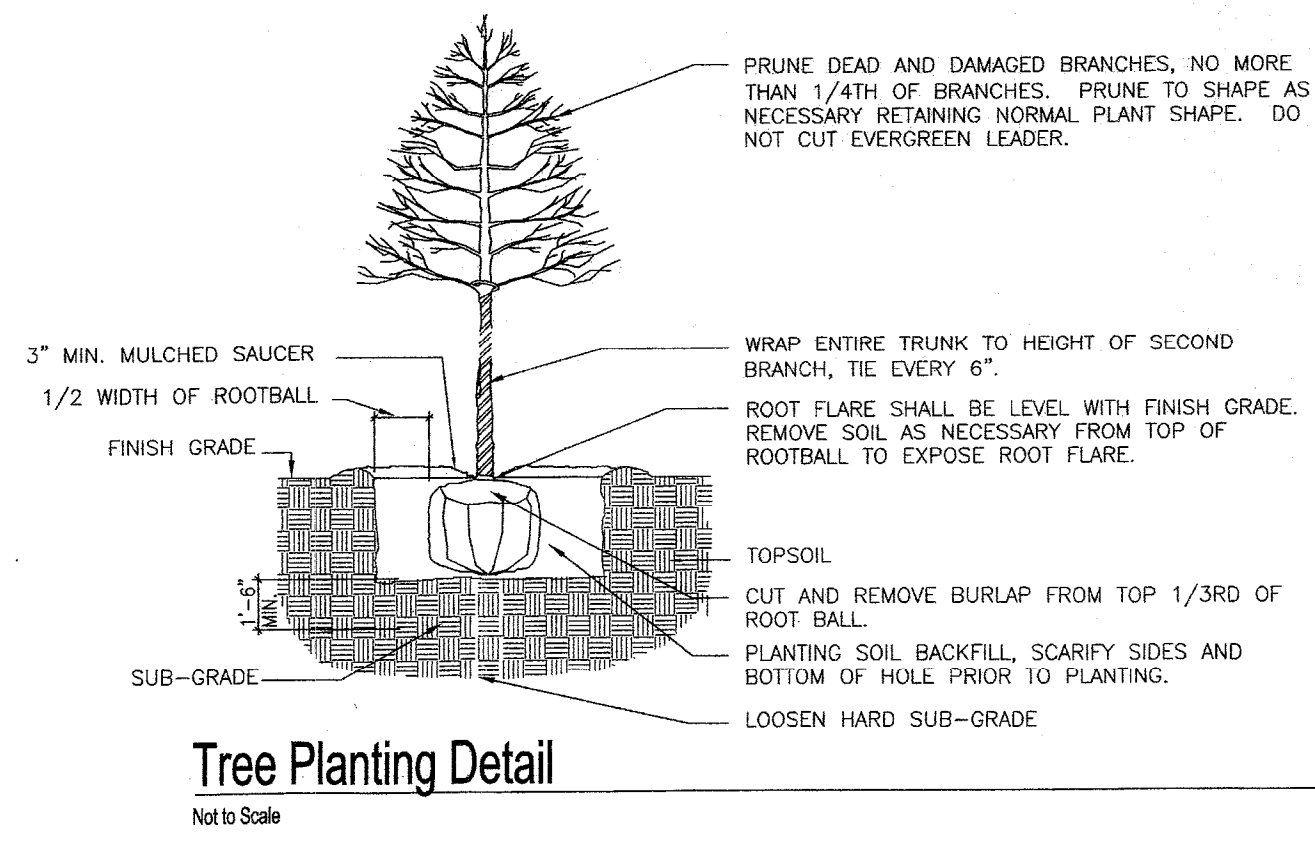
- LEGEND
- NEW BITUMINOUS PAVEMENT
 - EXISTING ELEVATIONS
 - PROPOSED ELEVATIONS
 - EXISTING CONTOURS
 - EXISTING GAS LINE
 - PROPOSED GAS LINE
 - EXISTING WATER LINE
 - PROPOSED WATER LINE
 - EXISTING ABOVE GROUND POWER LINE
 - PROPOSED UNDERGROUND POWER LINE
 - EXISTING UNDERGROUND TELEPHONE LINE
 - PROPOSED UNDERGROUND TELEPHONE LINE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - FLOWLINE
 - PROPOSED CATCH BASIN (N/A)
 - EXISTING POWER POLE
 - SANITARY MANHOLE

PERTINENT DATA:

- SITE AREA: 10 ACRES
- DISTURBED AREA = 5 ACRES
- IMPERVIOUS AREA = 1.08 ACRES
- AREA OF DRIVES = 32000SF
- LANDSCAPING AREA = 1600SF
- NO. EMPLOYEES AND PUBLIC: 0
- NO. COMPANY VEHICLES: 0
- NO. PARKING SPACES: 0

BENCHMARK: TC SAN MH @ SW CRNR BEND IN HUDSON DRIVE: EL=767.50

- NOTES:
- All exterior lighting must utilize 90 degree cutoff lighting fixtures and be no higher than 30 feet.
 - dumpsters shall be located within a full enclosure per the City Zoning Ordinance.
 - Contractor is responsible for locating all underground utilities.



CONSTRUCTION PLAN ELEMENTS

SECTION A: INDEX

- INDEX: Sheet Number 5
- 11" x 17" Submitted Separately.
- This project is A 60'x240' warehouse for Pickett Equipment Franklin, Indiana. Site preparation for the site will include grading, utilities and street construction in the Summer of 2013
- Vicinity Map on Sheet 1
- On Application and Sheet 2 (86°02'50" 39°31'00")
- On Sheet 3
- Hydrologic Number: 05120204090030
- N/A.
- 12'x12'x12' to 12'x12'x12' shown on Sheet Number 4
- No wetlands, Canary Ditch WEST of site.
- Discharges to Canary Ditch.
- No potential discharges to ground water apparent.
- One hundred year flood plain shown. (N/A)
- Attached drainage report submitted. (Pre-development Q₁₀ = 2.16 cfs, Post-development Q₁₀ = 2.16 cfs).
- Adjacent Land Use: Industrial and Agricultural
- Construction Limits shown on Sheet Number
- Existing Ground Cover: Crop Residue
- Soils Map on Sheet Number 5, Soil Descriptions on Sheet Number 5
- Shown on Sheet Number 3
- No Offsite Construction Activities.
- No Stockpiles or borrow areas. (WASTE AREA SHOWN)
- Contours shown on Sheet Numbers 4 and 5
- Final Grades shown on Sheet Numbers 4 and 5

SECTION B INDEX

- Description of potential pollutant sources associated with construction activities:

Disturbed earth, sand, gravel, asphalt millings, and any fluids associated with heavy equipment. All fueling to be done only in designated area shown on Sheet 4. In the event of any spillage, all contaminated soil will be removed from site.
- Sequence describing stormwater quality measure implementation relative to land disturbing activities:

See Sheet 4.
- Stable construction entrance locations and specifications (at all points of ingress and egress):

See Sheet 4 for location and Sheet 5 for detail.
- Sediment control measures for sheet flow areas:

See Sheet 4 for location and Sheet 5 for silt fence detail and erosion control blanket details.
- Sediment control measures for concentrated flow areas: "345"
- Storm sewer inlet protection measure locations and specifications: "3456"

See Sheet 3 for locations of inlets (OUTLET STRUCTURE)
- Runoff control measures (e.g. diversions, rock check dams, slope drains, etc.): "3"

See sheet 3 for rip rap located at the outlet end of all pipes for the pond and see Sheet for rip rap detail.
- Storm water outlet protection specifications: "5"

See sheet 3 for rip rap located at the outlet end of all pipes for the pond and see Sheet for rip rap detail.
- Grade stabilization structure locations and specifications.

See Sheets 34544
- Location, dimensions, specifications, and construction details of each stormwater quality measure:

See Sheets 3 and 544

OWNER INFORMATION:
PICKETT EQUIPMENT AND RENTAL, INC
200 EARLYWOOD DRIVE
FRANKLIN, INDIANA 46131
CONTACT: JIM PICKETT
PHONE: 317-738-0053

CONSTRUCTION PHASE (SPECIFIC ACTIVITIES OR EROSION CONTROL PRACTICES)	CONSTRUCTION SCHEDULE CONSIDERATIONS	CONSTRUCTION START DATE (APPROX. DATE)
PRE-CONSTRUCTION ACTIONS (EVALUATION/PROTECTION OF IMPORTANT SITE CHARACTERISTICS) (PRE-CONSTRUCTION MEETING)	BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, UNIQUE AREAS (e.g., WETLANDS) TO BE PRESERVED, ON-SITE SEPTIC SYSTEM ABSORPTION FIELDS, AND VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PERIMETER AREAS.	WEEK OF 3-10-13
CONSTRUCTION ACCESS • (CONSTRUCTION ENTRANCES, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS)	STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS WORK TAKES PLACE.	WEEK OF 3-17-13
SEDIMENT BARRIERS AND TRAPS • (BASIN TRAPS, SILT FENCES, OUTLET PROTECTION)	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ASSESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GROWING.	WEEK OF 3-24-13
RUNOFF CONTROL • (DIVERSIONS, PERIMETER DIKES, WATER BARS, OUTLET PROTECTION)	INSTALL PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS ARE INSTALLED BUT BEFORE SITE GRADING. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING AS NEEDED.	WEEK OF 3-24-13
RUNOFF CONVEYANCE SYSTEMS • (STABILIZED STREAMBANKS, STORM DRAINS, INLET AND OUTLET PROTECTION, CHANNELS)	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. INSTALL REMANDER OF SYSTEM AFTER GRADING.	WEEK OF 3-24-13
LAND CLEARING AND GRADING • (CUTTING/FILLING, GRADING DRAINS, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, SURFACE ROUGHENING)	BEGIN MAJOR CLEARING AND GRADING AFTER INSTALLING THE KEY SEDIMENT AND RUNOFF MEASURES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.	WEEK OF 3-31-13
SURFACE STABILIZATION • (TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP-RAP)	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETED.	WEEK OF 4-7-13
BUILDING CONSTRUCTION • (BUILDING, UTILITIES, PAVING)	INSTALL NECESSARY EROSION AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE.	WEEK OF 5-14-13
LANDSCAPING AND FINAL STABILIZATION • (TOPSOIL, TREES, AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP-RAP)	STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS. REMOVE TEMPORARY CONTROL MEASURES AND STABILIZE.	WEEK OF 5-2-13

* MAINTENANCE - (1) INSPECT PRACTICES AT LEAST ONCE A WEEK, & (2) MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF RAINFALL.

"X" DISTURBED AREAS MUST NOT BE IDLE FOR MORE THAN 15 DAYS W/O SEEDING

- Temporary surface stabilization methods appropriate for each season (include sequencing):

See Sheets 34544 Erosion control blanket 6' wide will be used in the flowline of ditches. See Sheet 5 for erosion control blanket details. See Sheet 4 for sequencing.
- Permanent surface stabilization specifications (include sequencing): "445"

See Sheet 4 for permanent seeding of all disturbed areas and Sheet 5 for seed chart.
- Material handling and spill prevention plan:

Construction materials such as pipes, fittings, and couplings shall be staged and stored at the construction entrance drive. Number 2 stone will be delivered in tri-axes, spread, graded and compacted with a roller on compacted sub-grade. Asphalt millings will be delivered in tri-axes, spread, graded and compacted with a roller on compacted Number 2 stone. All fueling will be done only in designated area near previously mentioned construction drive. There will be no fuel tank on site. All fuel will be delivered in EPA approved trucks. In the event of any spillage, all contaminated soil will be removed from site.
- Monitoring and maintenance guidelines for each proposed stormwater quality measure:

See Sheet 5
- Erosion & sediment control specifications for individual building lots: (N/A)

SECTION C INDEX

- Description of pollutants and their sources associated with the proposed land use.

Proposed land use is INDUSTRIAL AND Pollutants would be: a) those associated with home construction, and b) those associated with INDUSTRIAL a) Disturbed earth, sand, gravel, concrete, paint, drywall compound, etc. b) Potentially; trash, automobile fluids, wastewater, disturbed earth
- Sequence describing stormwater quality measure implementation:

Upon completion of site construction, all post construction measures applicable to the overall site will be immediately installed. As construction on individual tracts begins, building site measures will be installed.
- Description of proposed post construction stormwater quality measures (include a written description of how these measures will reduce discharge of expected pollutants):

All rock check dams in roadside ditches, rip rap at the end of all storm pipes and pond pipes, and all rip rap on pond overflows will be left in place. All disturbed areas will have been permanent seeded. These measures will be monitored and maintained by the PICKETT EQUIPMENT and enforced by the OWNER ever after the N.O.T. has been issued. The drainage for the entire site is channeled through grassy roadside ditches or sheet drains over expansive areas of established grasses effectively filtering runoff. During construction on individual tracts, a dumpster and a designated area for construction washing must be provided as noted on Sheet 3. This in conjunction with perimeter controls on individual lots will reduce discharge of potential pollutants. This is also included in Restrictive Covenants.
- Location, dimensions, specifications and construction details of each stormwater quality measure:

See Sheets 2 and 3.
- Description of maintenance guidelines for post construction stormwater quality measures:

IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO MAINTAIN STORM QUALITY MEASURES IN ACCORDANCE WITH THESE PLANS AND UNDER GOVERNANCE. MONITOR & REPAIR SILT FENCES & SEEDED AREAS, AND ROCK DAMS.

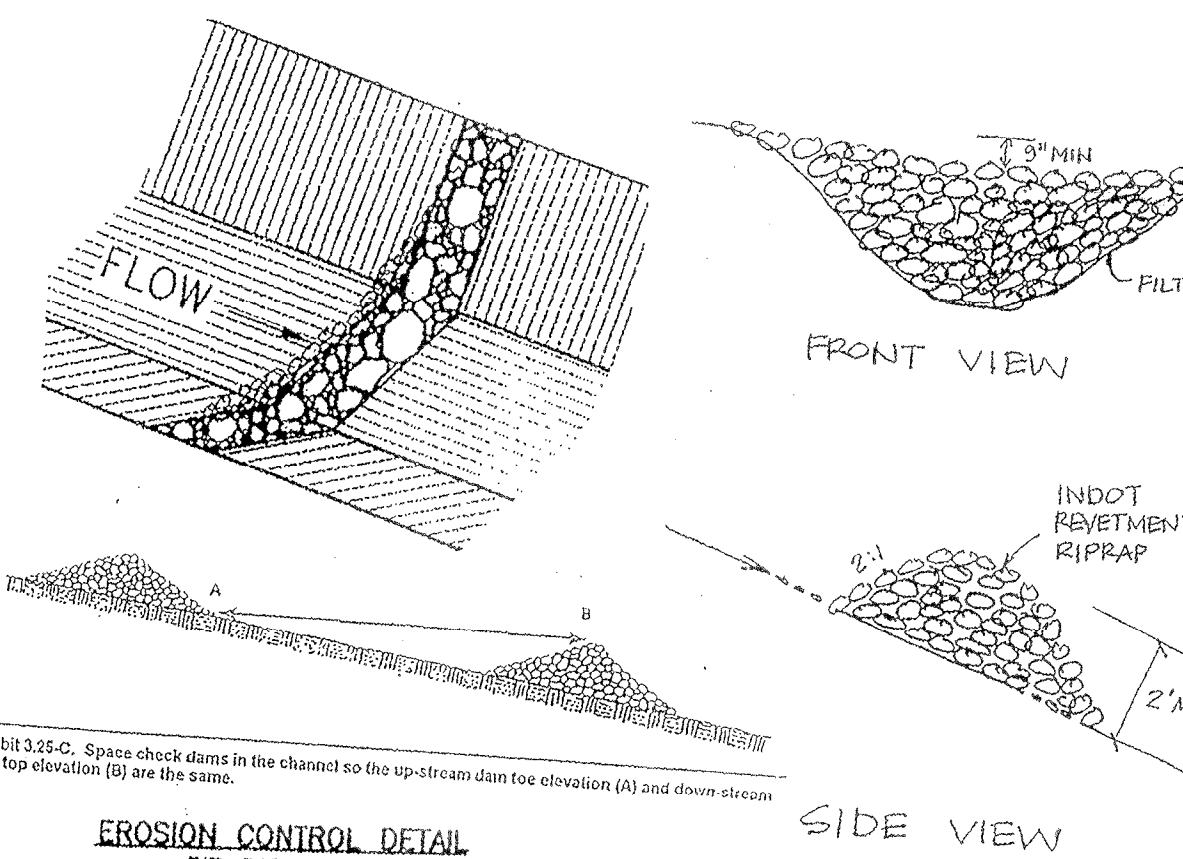
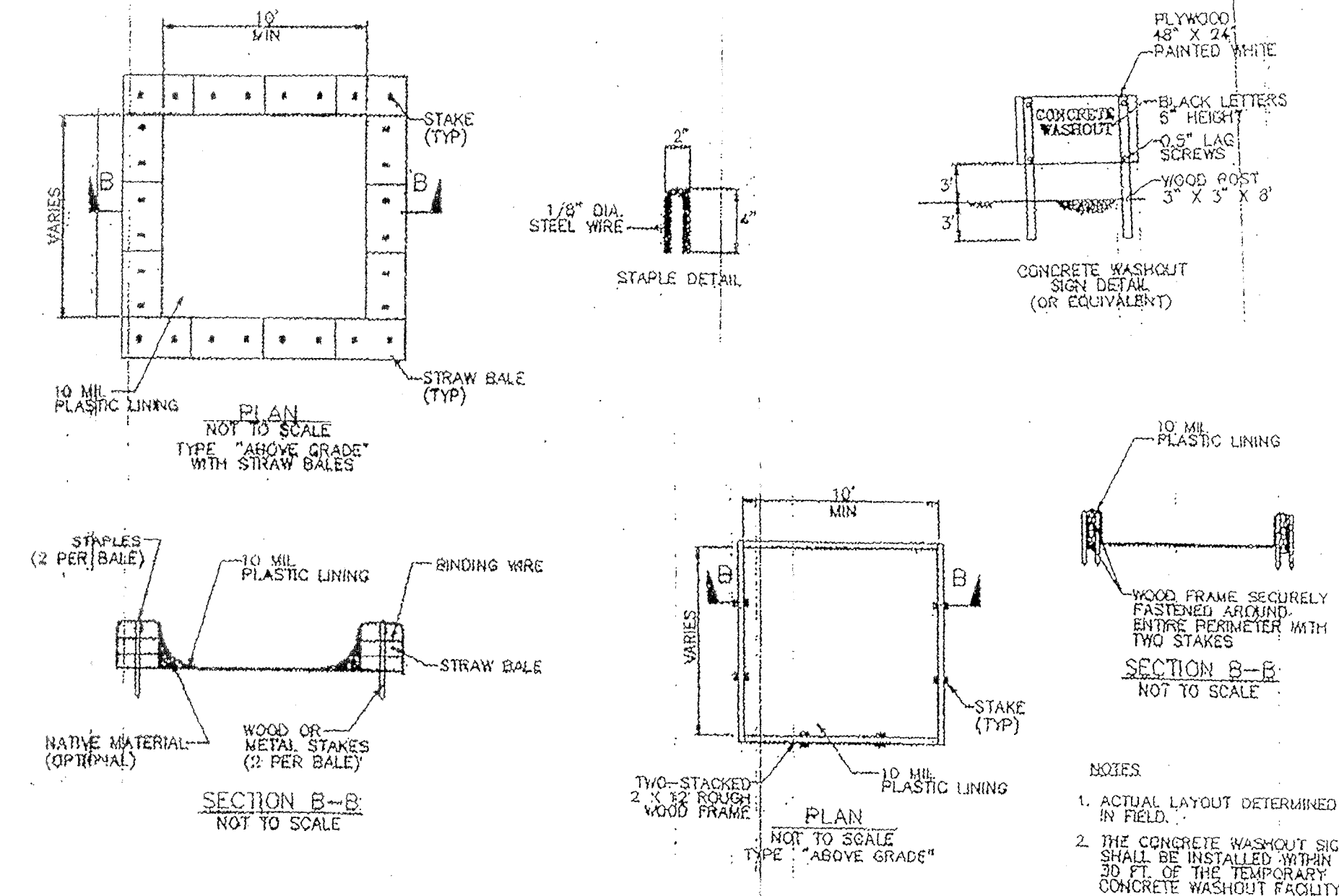


Exhibit 3.31-C. Space check dams in the channel so the up-stream dam toe elevation (A) and down stream 40m top elevation (B) are the same.

EROSION CONTROL DETAIL

RIP-RAP DAM

Concrete Waste Management



POLLUTION CONTROL AND COUNTERMEASURE PLAN:

IN THE EVENT OF A HAZARDOUS SUBSTANCE SPILL THE SPILL AREA WILL BE CONTAINED IMMEDIATELY WITH EXCAVATED CLAY SOIL MOUNDS OR SAND BAGS. THE FRANKLIN FIRE DEPT AND DPW WILL BE NOTIFIED FOR THEIR CONTROL AND CLEANUP RECOMMENDATIONS.

Concrete Washout BMPs

- Recycle concrete washout back into cement truck.
- KIC systems- Barrel system where driver washes out into a barrel and then the barrel is removed from the building site.
www.kicysystems.com
- Delayed Set Additive- Extends the set time of the concrete so that no onsite washout is needed. The cement truck can return to the concrete plant without fear of excess concrete hardening.
www.icbupport.com
- Concrete Washout Inc.- Dumpster like system. Trucks washout into the dumpster and then dry concrete is removed.
www.concretewashout.com

BMP MAINTENANCE PROCEDURES:

- MOW GRASS WEEKLY DURING GROWING SEASON.
- CHECK SEDIMENT LEVEL IN BASIN AND AT ROCK DAMS MONTHLY AND AFTER STORMS.
- CLEAN SEDIMENT ANNUALLY OR WHEN LEVEL REACHES 3" OF SEDIMENT.
- CHECK INLET AND OUTLET PIPES FOR REFUSE BLOCKAGE AND REMOVE MONTHLY AND AFTER STORMS.
- CHECK SILT FENCE WEEKLY DURING CONSTRUCTION AND REPAIR AS NECESSARY.
- RESEED AND MULCH ERODED AREAS. CHECK MONTHLY.
- REPORT ANY HAZARDOUS SUBSTANCE SPILLS IMMEDIATELY TO FRANKLIN DPW.

Exhibit 3.15-B. Mulch Materials, Rates, and Comments.		
Material	Rate	Comments
Straw or hay	1 1/2 tons/acre	Should be dry, unchopped, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see Exhibit 3.15-D).
Wood fiber or cellulose	1 ton/acre	Apply with a hydromulcher and use with tackling agent.
Long fiber wood (excelsior)	1 1/2-3/4 ton/acre	Anchor in areas subject to wind.

Exhibit 3.15-D. Mulch Anchoring Methods.	
Anchoring method	How to apply
Mulch anchoring tool OR Farm disk (dull, serrated, and set straight)	Crimp or punch the straw or hay into the soil 2-4 in. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope, not across, or else the tracks will form rills.
Wood hydromulch fibers	Apply 1-2 tons/acre using a hydromulcher at a rate of 750 lbs./acre with a tackling agent (or according to contractor specifications). Do not use in areas of concentrated flow.
Asphalt emulsion	Emulsified asphalt should conform to the requirements of ASTM Spec. #977. Apply with suitable equipment at a rate of 0.05 gal/sq. yd. Do not use in areas of concentrated flow.
Synthetic tackifier, binder or soil stabilizer	Apply according to manufacturer's recommendation.
Biodegradable netting (polypropylene or similar material)*	Apply over mulch and staple with 6-8 in. wire staples. Follow manufacturer's recommendations for installation. Best suited to slope application.

* Install the netting immediately after applying the mulch. In areas of concentrated water flow, lay it parallel to the direction of flow, on other slopes, lay it either parallel or perpendicular to direction of flow. Edges of adjacent netting strips should overlap 4-6 in., with the strip on the up-slope side of any lateral water flow on top. Installation details are site specific, so follow manufacturer's directions.

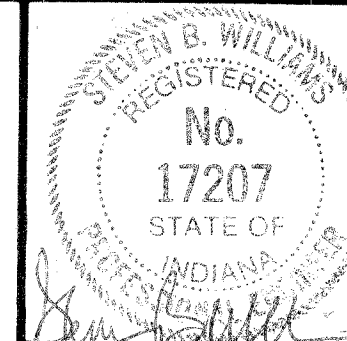
Exhibit 3.12-C. Permanent Seeding Recommendations.

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness.

Seed species and mixtures	Rate per acre	Optimum soil pH
OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)		
1. Perennial ryegrass	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ smooth bromegrass	10 lbs.	
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Perennial ryegrass	15 to 30 lbs.	5.6 to 7.0
+ tall fescue**	15 to 30 lbs.	
4. Tall fescue**	35 to 50 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED)		
1. Smooth bromegrass	25 to 35 lbs.	5.5 to 7.5
+ red clover*	10 to 20 lbs.	
2. Tall fescue**	35 to 50 lbs.	5.5 to 7.5
+ white or ladino clover*	1 to 2 lbs.	
3. Tall fescue**	35 to 50 lbs.	5.5 to 7.5
+ red clover*	10 to 20 lbs.	
(Recommended north of US 40)		
4. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover*	1 to 2 lbs.	
5. Crownvetch*	10 to 12 lbs.	5.6 to 7.5
+ tall fescue**	20 to 30 lbs.	
(Recommended south of US 40)		
LAWNS AND HIGH MAINTENANCE AREAS		
1. Bluegrass	105 to 140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf-type)	45 to 60 lbs.	5.6 to 7.0
+ bluegrass	70 to 90 lbs.	
3. Tall fescue (turf-type)**	130 to 170 lbs.	5.6 to 7.5
+ bluegrass	20 to 30 lbs.	
CHANNELS AND AREAS OF CONCENTRATED FLOW		
1. Perennial ryegrass	100 to 150 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ smooth bromegrass	10 lbs.	
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Tall fescue**	100 to 150 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
4. Tall fescue**	100 to 150 lbs.	5.5 to 7.5
+ Perennial ryegrass	15 to 20 lbs.	
+ Kentucky bluegrass	15 to 20 lbs.	

Exhibit 3.11-B. Temporary Seeding Recommendations.

Seed species*	Rate/acre	Planting depth	Optimum dates**
Wheat or rye	150 lbs.	1 to 1 1/2 in.	9/15 to 10/30
Spring oats	100 lbs.	1 in.	3/1 to 4/15
Annual ryegrass	40 lbs.	1/4 in.	3/1 to 5/1
German millet	40 lbs.	1 to 2 in.	8/1 to 9/1
Sudangrass	35 lbs.	1 to 2 in.	5/1 to 7/30



DESIGNED:

DRAWN:

CHECKED:

60'X240' WAREHOUSE PROJECT
EROSION CONTROL INDEX
PICKETT EQUIPMENT AND RENTAL, INC.
200 EARLYWOOD DRIVE, FRANKLIN

Steven B. Williams
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REVISIONS

DATE	REVISION
11/13	TECH. CORRECTION

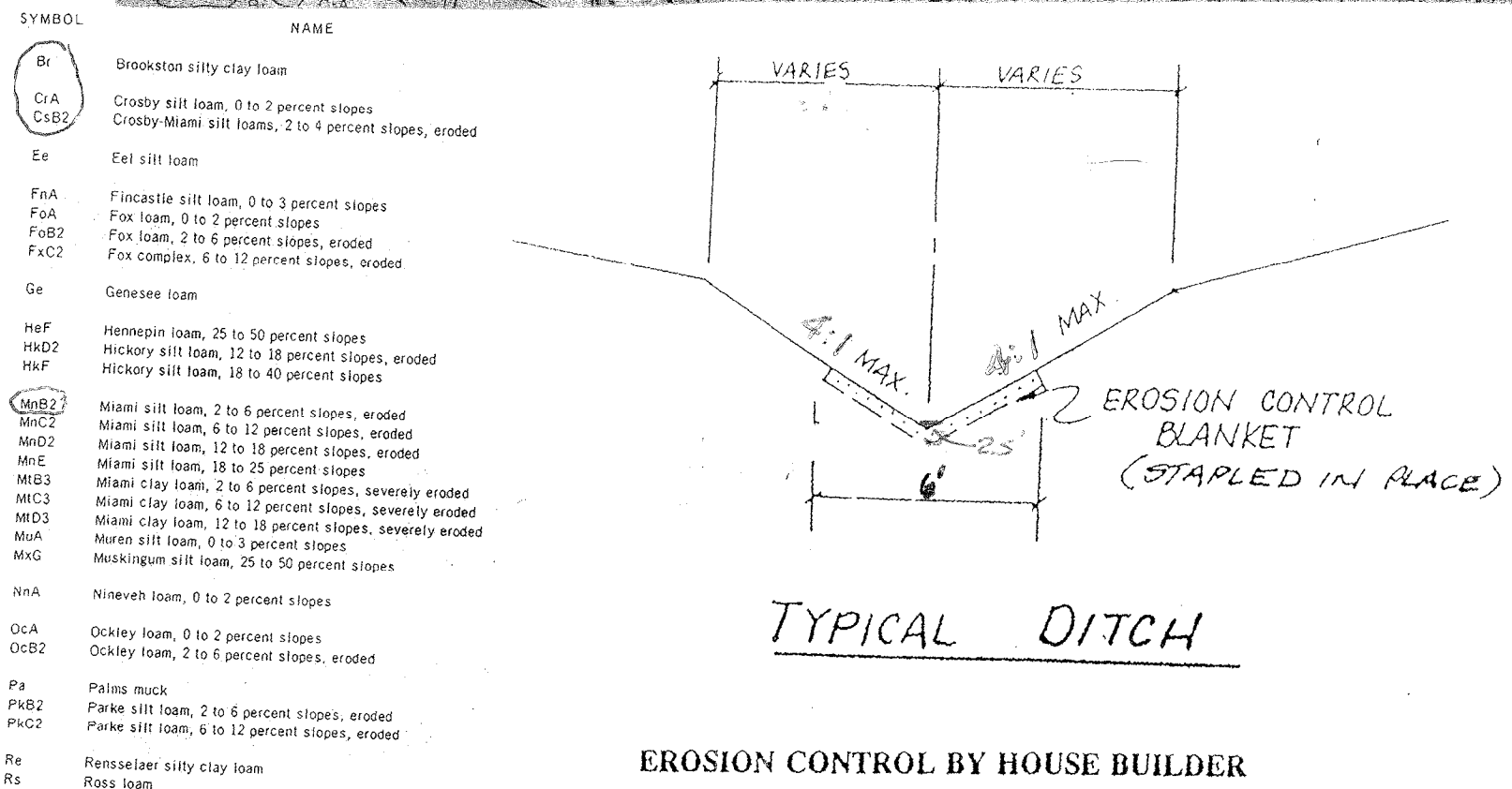
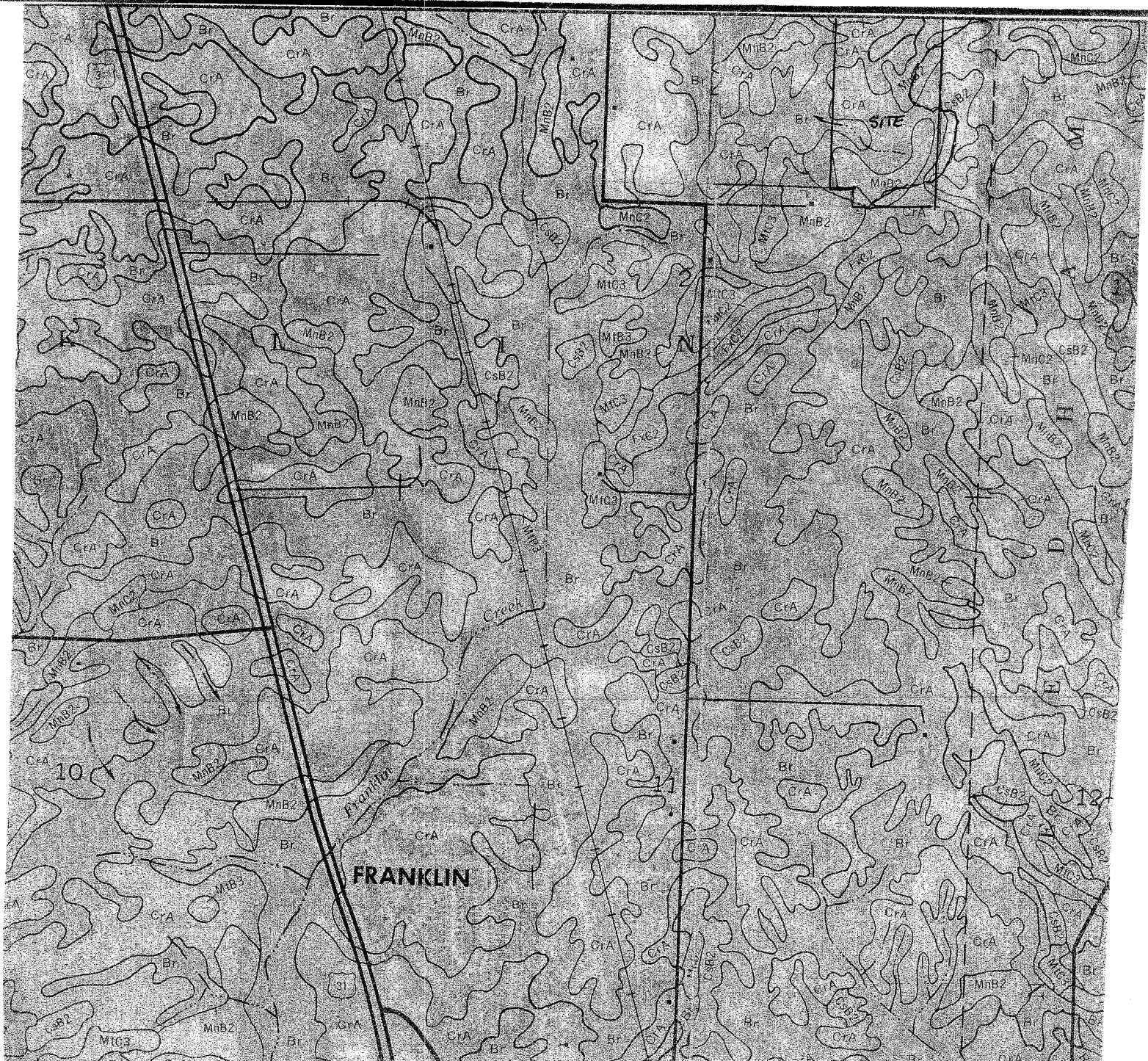
PROJ. NO. SW-472

SCALE NONE

DATE 11-28-12

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EROSION CONTROL BY HOUSE BUILDER

- Temporary and permanent seeded areas established by the developer will be maintained by the home builder and his sub-contractors. Straw bale dams or silt fences previously installed will be maintained.
- A construction drive to the COMM-site from the street shall be installed of Number 2 Stone, 6" thick and a minimum of 12' wide. This shall be utilized for access to the house and any mud or dirt tracked into the street shall be promptly removed to a stable area (water shall not be used to flush silt or mud to the storm sewers).
- In a particularly persistent erosion condition, silt fencing or other measures may be required by the developer.
- When time is appropriate, and as soon as possible, roof downspout extenders of non-perforated drain tile should be extended to the street or other solid outlet until a lawn is established.

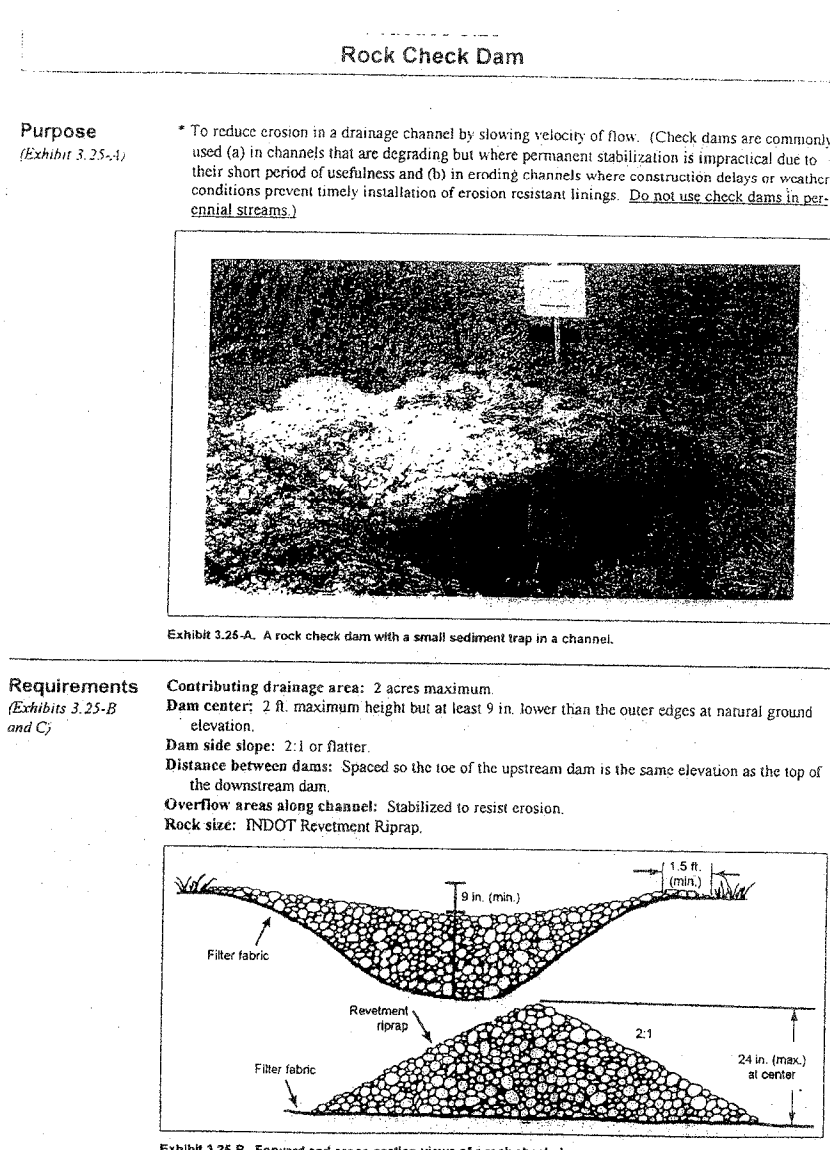
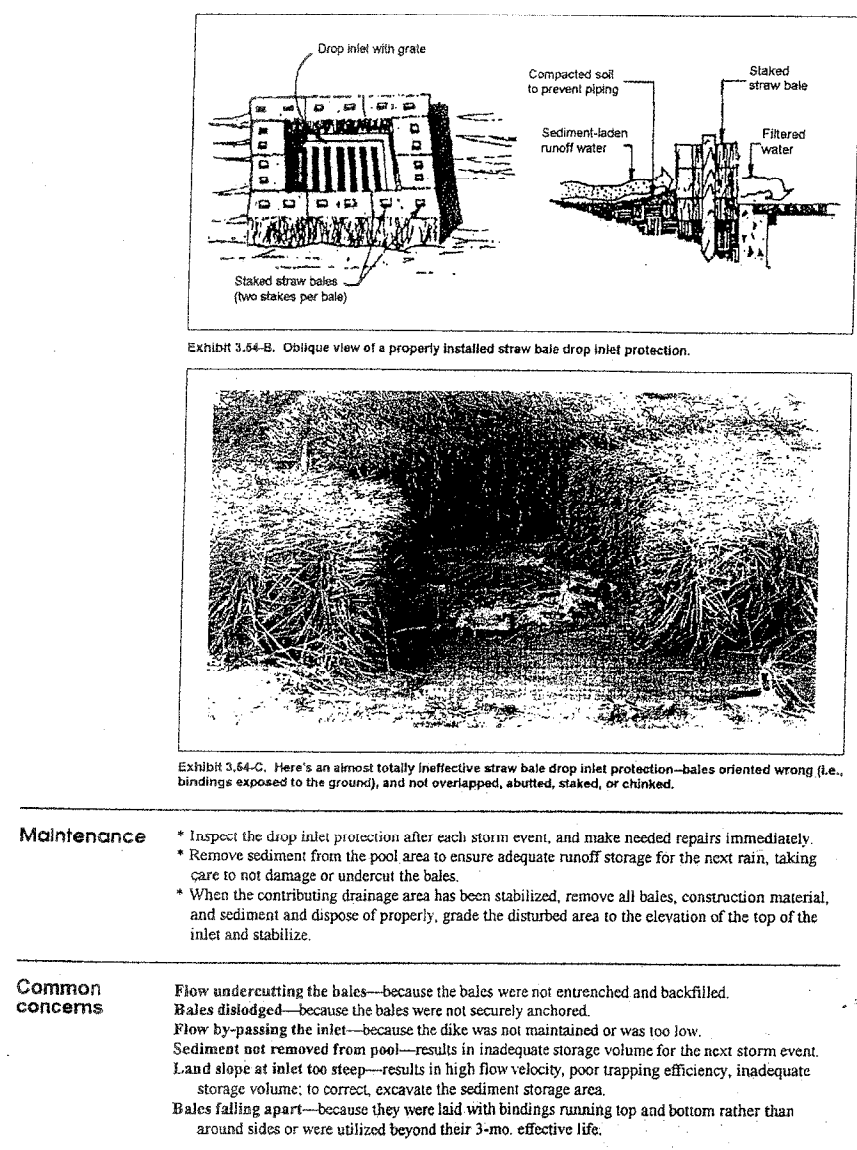
EROSION CONTROL BY DEVELOPER

- A temporary seeding mixture in the area of where stripping of fills have been graded shall be seeded for all silt erosion protection. After grading all construction areas to be seeded as follows:
 - Permanent seeding: Seed and fertilize within construction limits as designated under Table "A" and 600#/acre 12-12-12 fertilizer.
 - Temporary seeding: Seed and fertilize as designated under Table "A" and 600#/acre 12-12-12 fertilizer.
- Seeded areas shall have a suitable mulch applied for EROSION AND SILT CONTROL. Mulch may be straw, shredded hardwood or erosion control mat.
- Developers option: Construction areas requiring erosion control may be hydroseeded in accordance with above seed and fertilizer specifications.
- Sediment traps shall be created by leaving backfill at back of curbs and around inlets 3" low until such time as new grass prevents erosion.
- Straw bale dams shall be used in side yard swales and any areas causing erosion into streets.
- Straw bale dams shall be used around the back side of storm inlet structures to prevent mud flow into inlets.
- Earthwork shall not be attempted too late in the season for seeding described above to take effect.

The developer is responsible for keeping the streets clean of siltation until THE ENTIRE PROJECT IS COMPLETED AND STABILIZED.

A construction drive (if indicated on plans) shall be installed and maintained during subdivision construction. Any mud tracked on to public streets shall be removed in a timely manner.

Establish the perimeter swales and stabilize prior to other earthwork. Then protect swales from sedimentation by utilizing silt fence around perimeter of disturbed areas.



Requirements

Contributing drainage area: 2 acres maximum
Dam crest: 2 ft. maximum height but at least 9 in. lower than the outer edges at natural ground elevation
Dam side slope: 2:1 or flatter
Distance between dams: Spaced so the toe of the upstream dam is the same elevation as the top of the downstream dam
Overflow area along channel: Stabilized to resist erosion
Rock size: NDOT Section 309

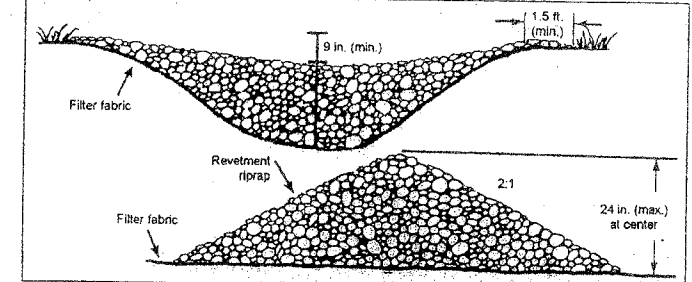
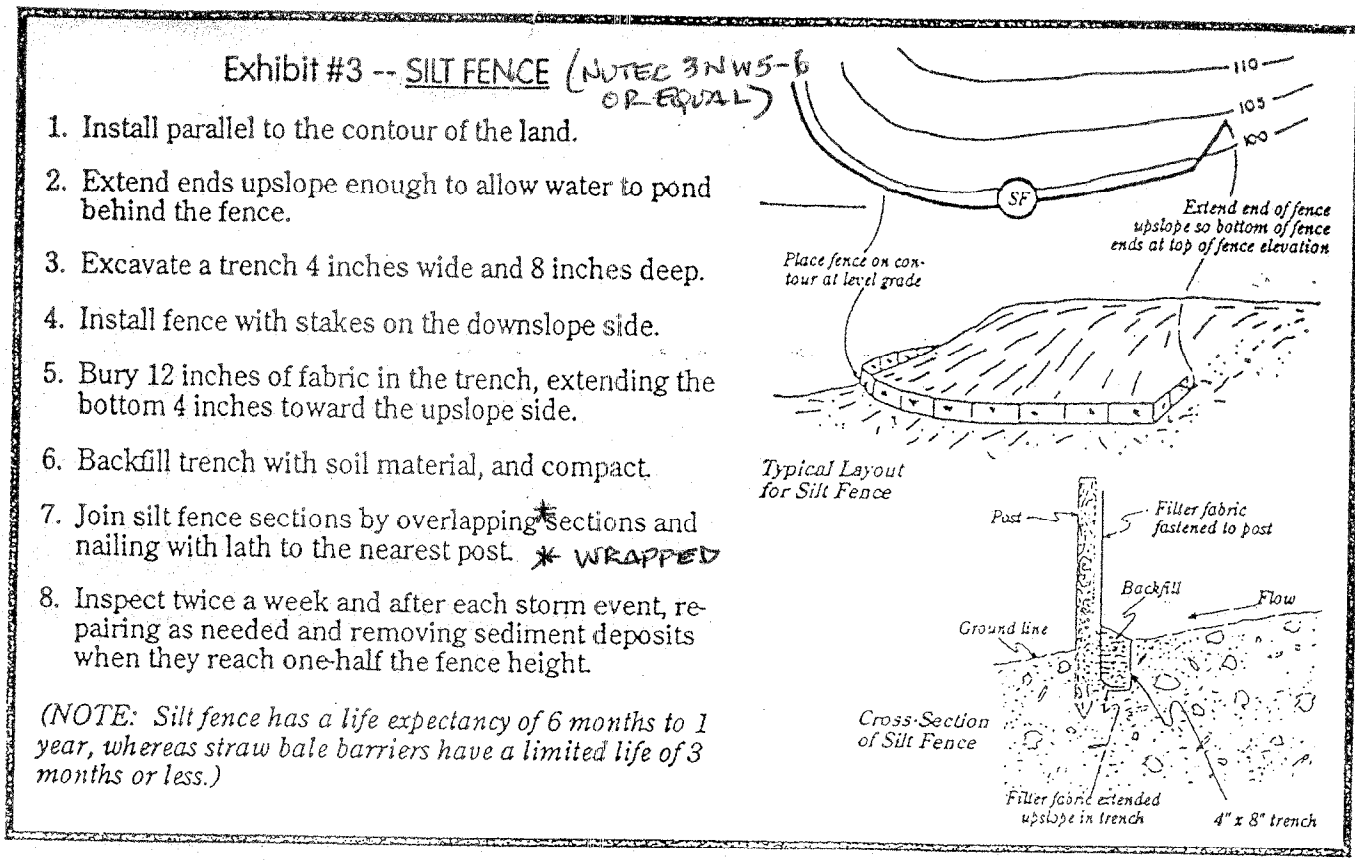


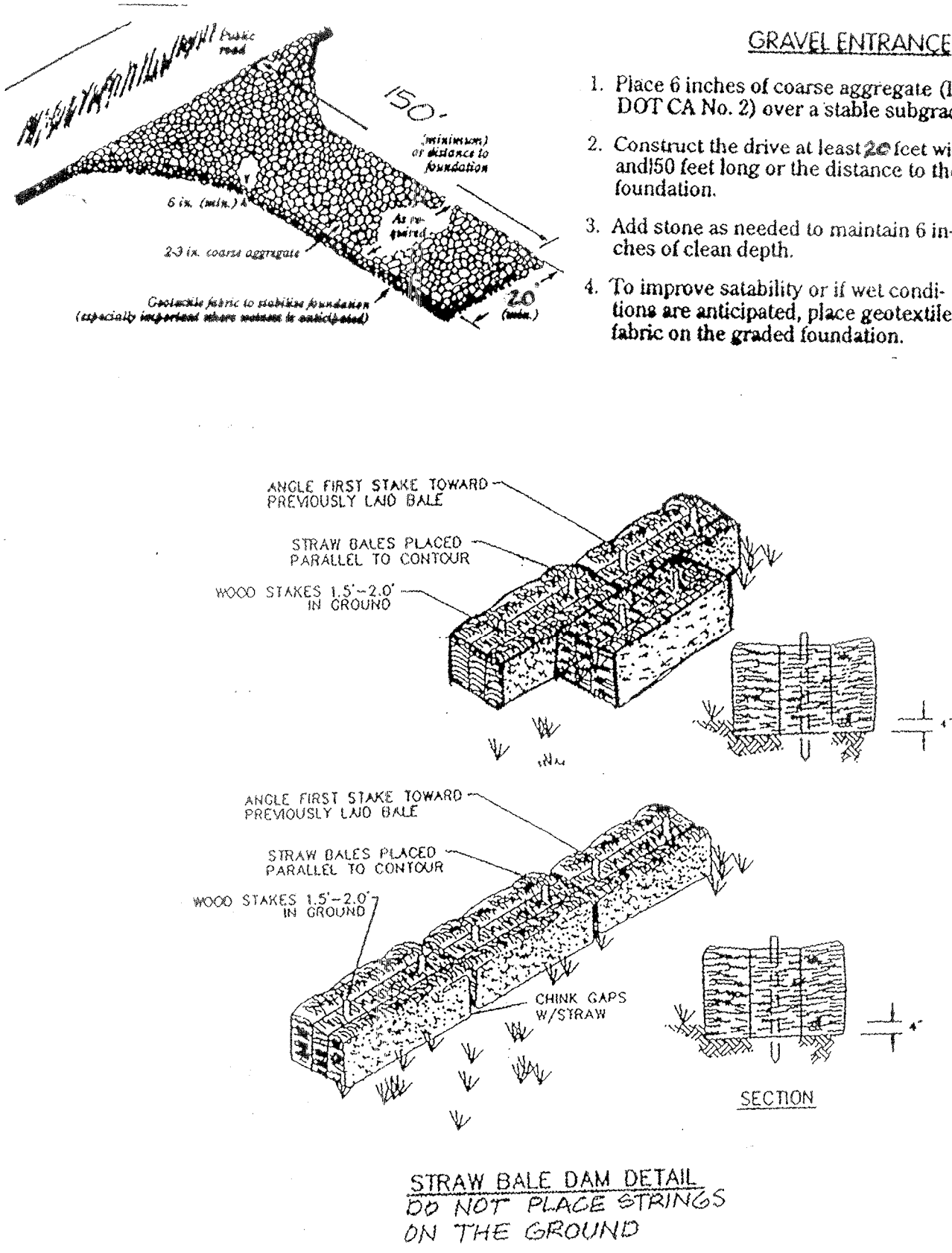
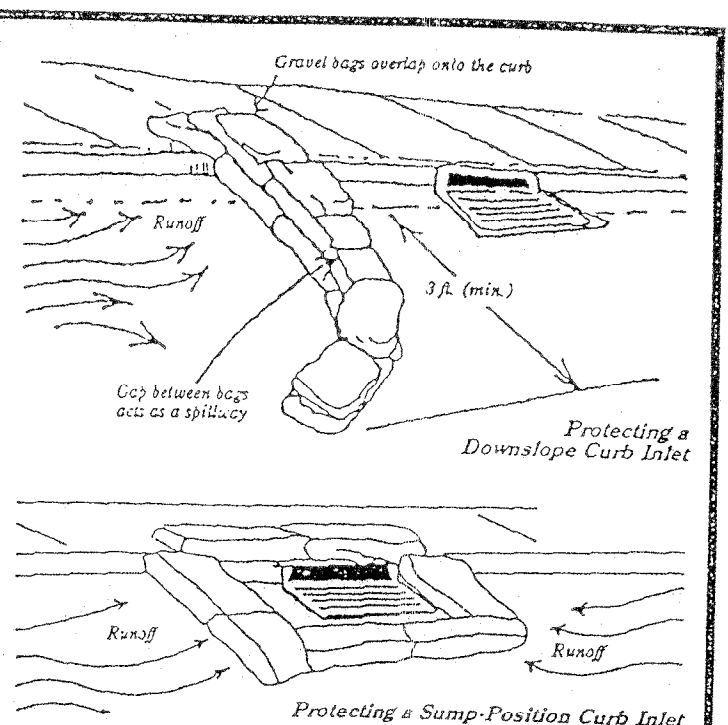
Exhibit 3.26-B. Forward and cross-section views of a rock check dam.



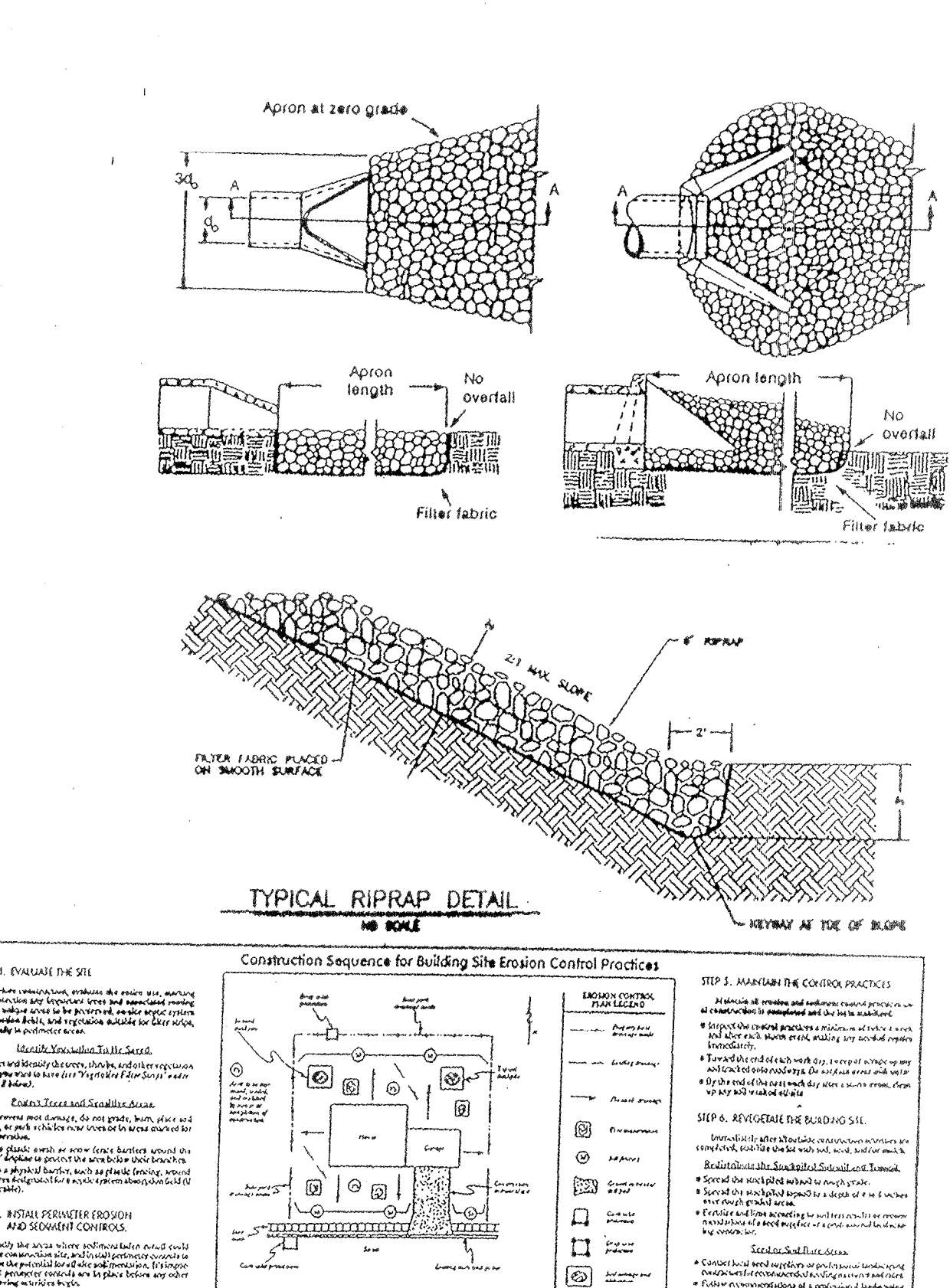
(NOTE: Silt fence has a life expectancy of 6 months to 1 year, whereas straw bale barriers have a limited life of 3 months or less.)

Exhibit #1 -- CURB INLET PROTECTION

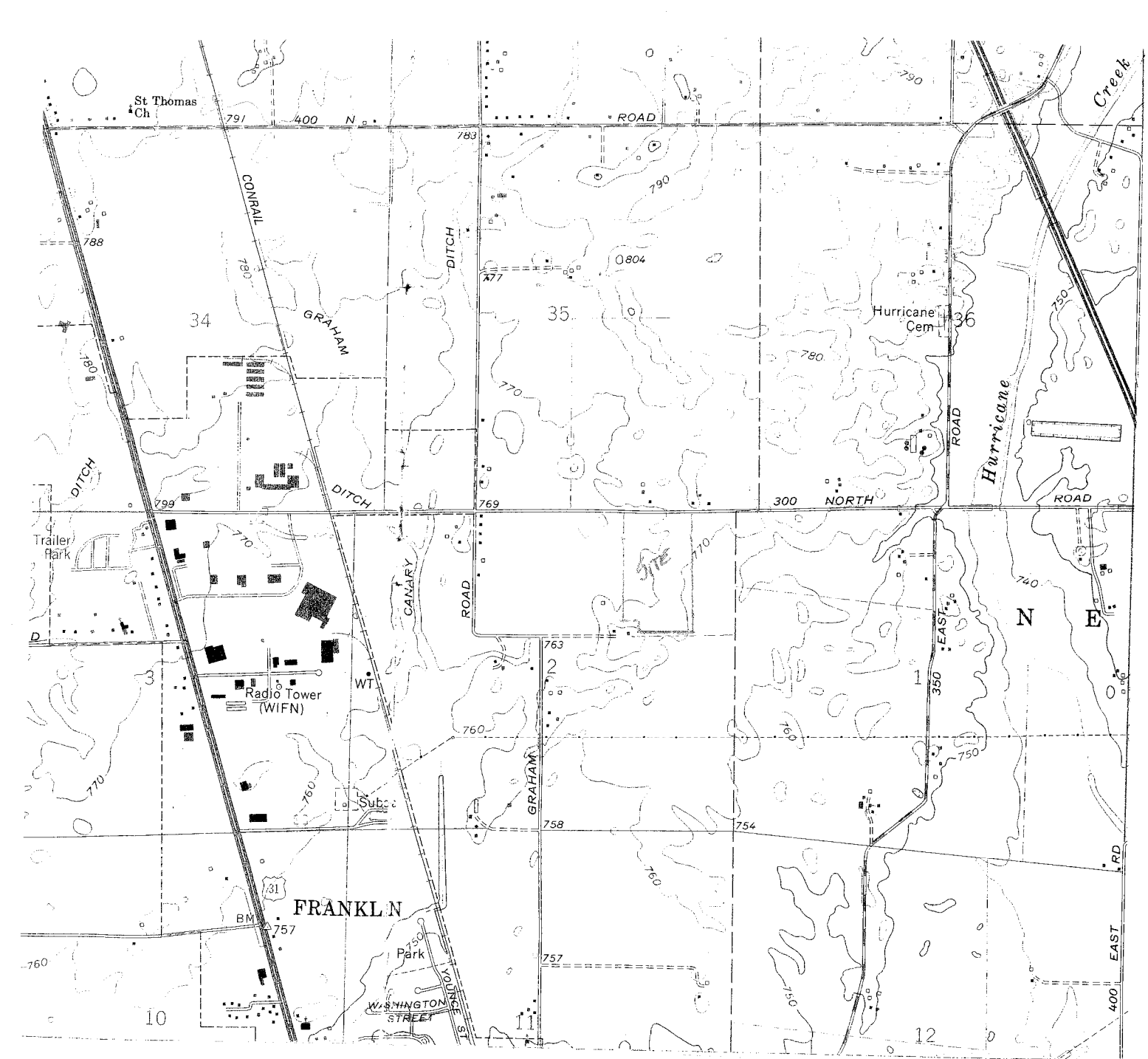
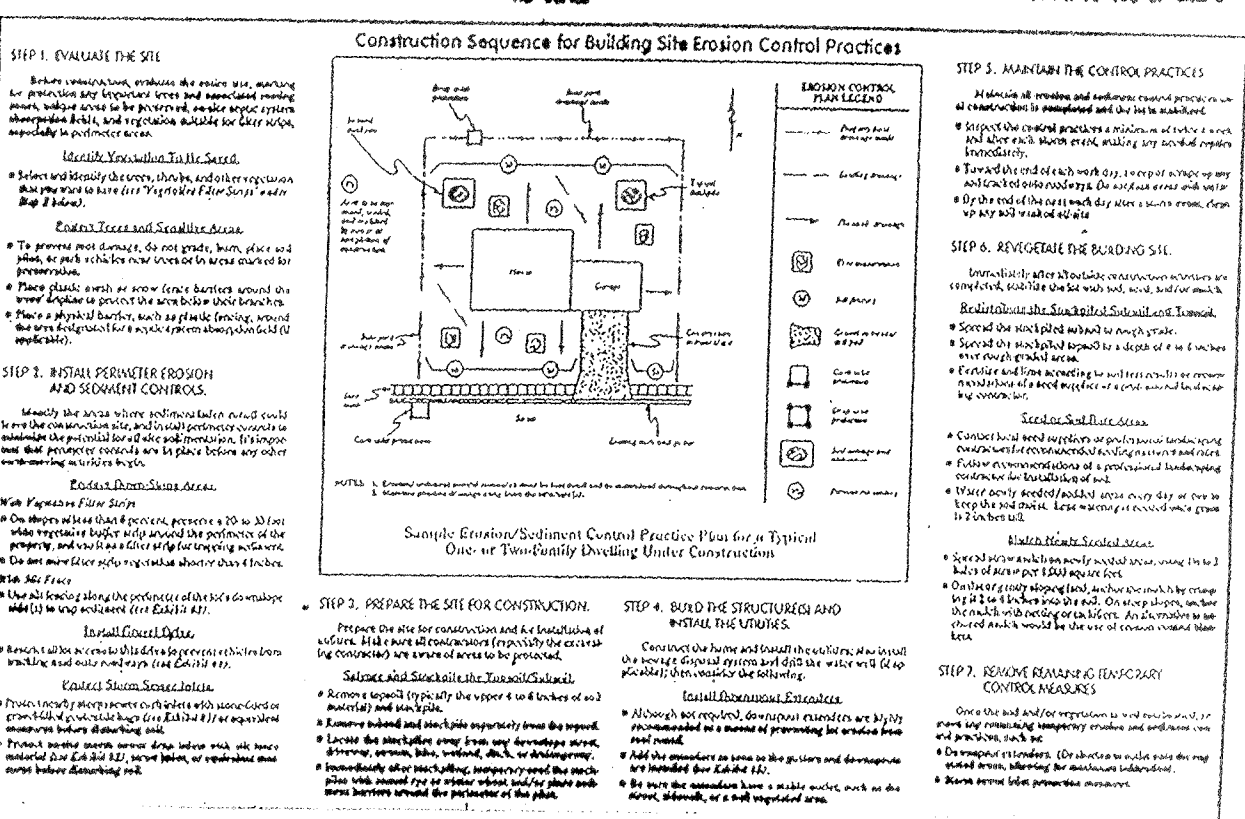
- Fill geotextile bags approximately half full with 2- to 3-inch stone or gravel.
- At a potential downslope of the lot and upslope of the inlet, lay bags tightly in a row curving upslope from curb and away from inlet.
- Overlap bags onto the curb and extend a minimum of 3 feet into the street.
- For additional layers, overlap bags with the row beneath, and leave a one-bag gap in the middle of the top row to serve as a spillway.
- Place bags in an arc around curb inlets that are in a sump position.
- Set up safety/traffic barriers to keep vehicles from hitting bags, causing possible injury.
- Inspect and repair as needed, and remove any accumulated sediments after every storm.



STRAW BALE DAM DETAIL
DO NOT PLACE STRINGS ON THE GROUND



TYPICAL RIPRAP DETAIL



All temporary and permanent erosion and sediment control measures are subject to failure or need periodic maintenance to insure proper function. Structures need to be inspected weekly and following each storm event. Immediate repair is needed to be ready for the next storm event. Silt fences, sediment traps and basins need to have sediment removed when 1/2 the storage capacity is reached. Seeding will need to have maintenance fertilizations and over seeding until the vegetation is established. Seeded areas need to be reshaped and re-seeded when storm events or poor soil conditions prevent an adequate stand for erosion control.

All disturbed areas to be left idle for more than 15 days must be temporarily stabilized by seeding or other appropriate measures. This includes the entire building lot including the building pad.

PROJECT NARRATIVE

The project is located east of 200 Earlywood Drive, Franklin.

The project is planned for construction from 3-10-13 to 3-30-13 and the sequence is generally planned as follows.

- Perimeter erosion controls and temporary construction road/staging area.
- Rough-out earthwork, stockpiling topsoil for future distribution as directed by engineer. If stockpiles warrant or are to be left for a long period, perimeter silt fence or other measures may be required. Temporary erosion control measures shall be installed when the rough-out is completed and where they will not interfere with other construction.
- Sewer installation. Inlet protection measures shall be installed at completion.
- Street construction. Temporary silt barriers behind curbs shall be created and maintained.
- Utility installation.
- Final grading, cleanup and installation of all remaining erosion controls, both permanent* and temporary.
 - * Permanent controls should be installed in any area completed throughout the project as soon as practicable. Maintenance of erosion controls shall be conducted on a regular schedule and after significant rains by the responsible individual.
- Erosion control on individual lots during and after building construction, i.e. construction entrance, mud control, street cleaning and lot run-off shall be the responsibility of the individual builder and not the project developer. Controls specified on plans for project development shall be maintained by the developer.

Existing vegetation on site is Crop Residue

Land use of adjacent areas are INDUSTRIAL AND AGRICULTURAL

Pertinent floodplain, fringe, floodway, lakes, ponds, creeks or water courses are shown on the construction plans. There is no recorded flood plain on this site

A soils map is attached.

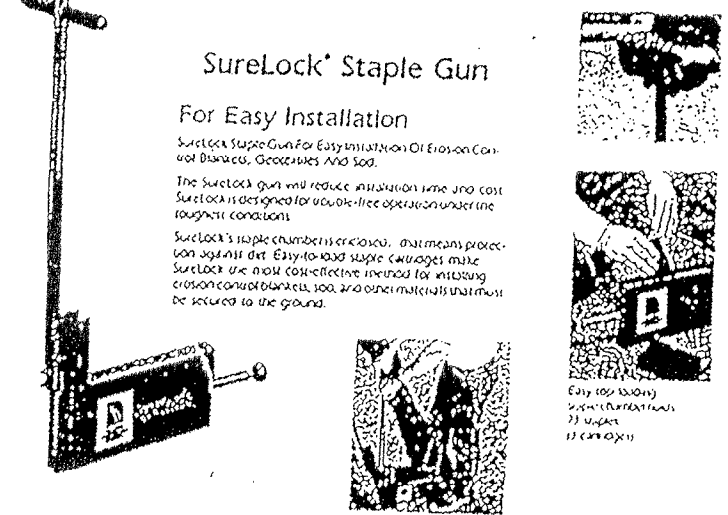
Storm water will leave the site at points shown on construction plans. The receiving waters or discharge is to Canary Ditch to Youngs Creek.

Planned or required storm sewers, swales, channels, and details are shown on the construction plans.

The area to be disturbed on this site is more or less 3 ACRES.

Stockpiles or borrow areas are shown on the plans or shall be determined by the engineer if required.

Erosion control measures, locations, details, seeding schedules, mixes, fertilizer, mulch, applications and rates are shown on the seasonal soil protection chart for both temporary and permanent measures.



SureLock® Staple Gun

For Easy Installation

Insert the SureLock Staple Gun into the top of the erosion control blanket and push down.

The SureLock Staple Gun will automatically insert the staple into the blanket and pull the blanket down to the ground.

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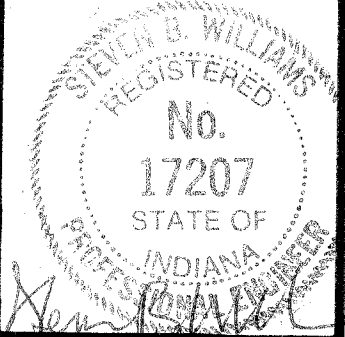
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DESIGNED:

DRAWN:

CHECKED:

60'X240' WAREHOUSE PROJECT
EROSION CONTROL DETAILS
PICKETT EQUIPMENT AND RENTAL, INC.
200 EARLYWOOD DRIVE, FRANKLIN

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