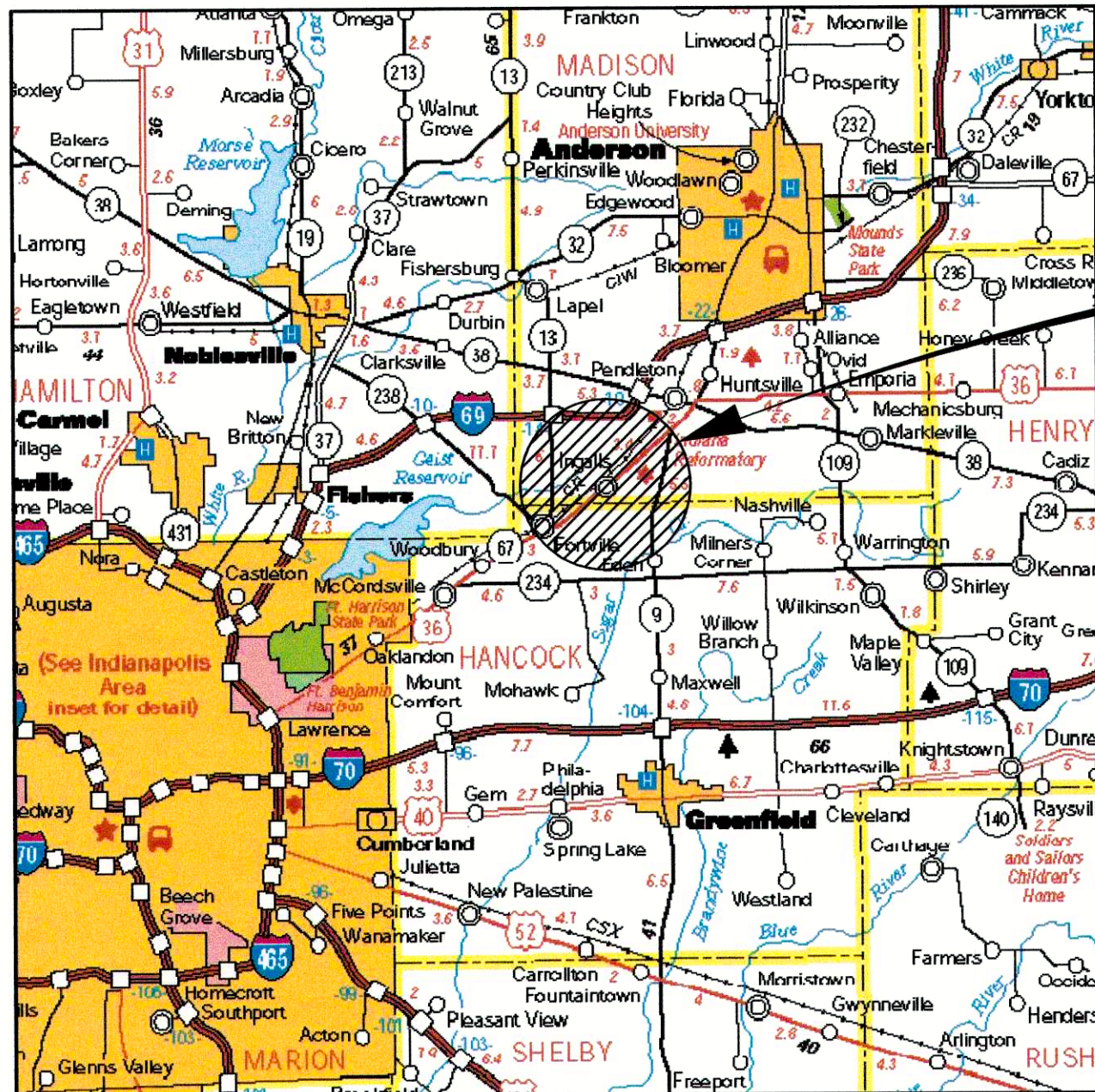


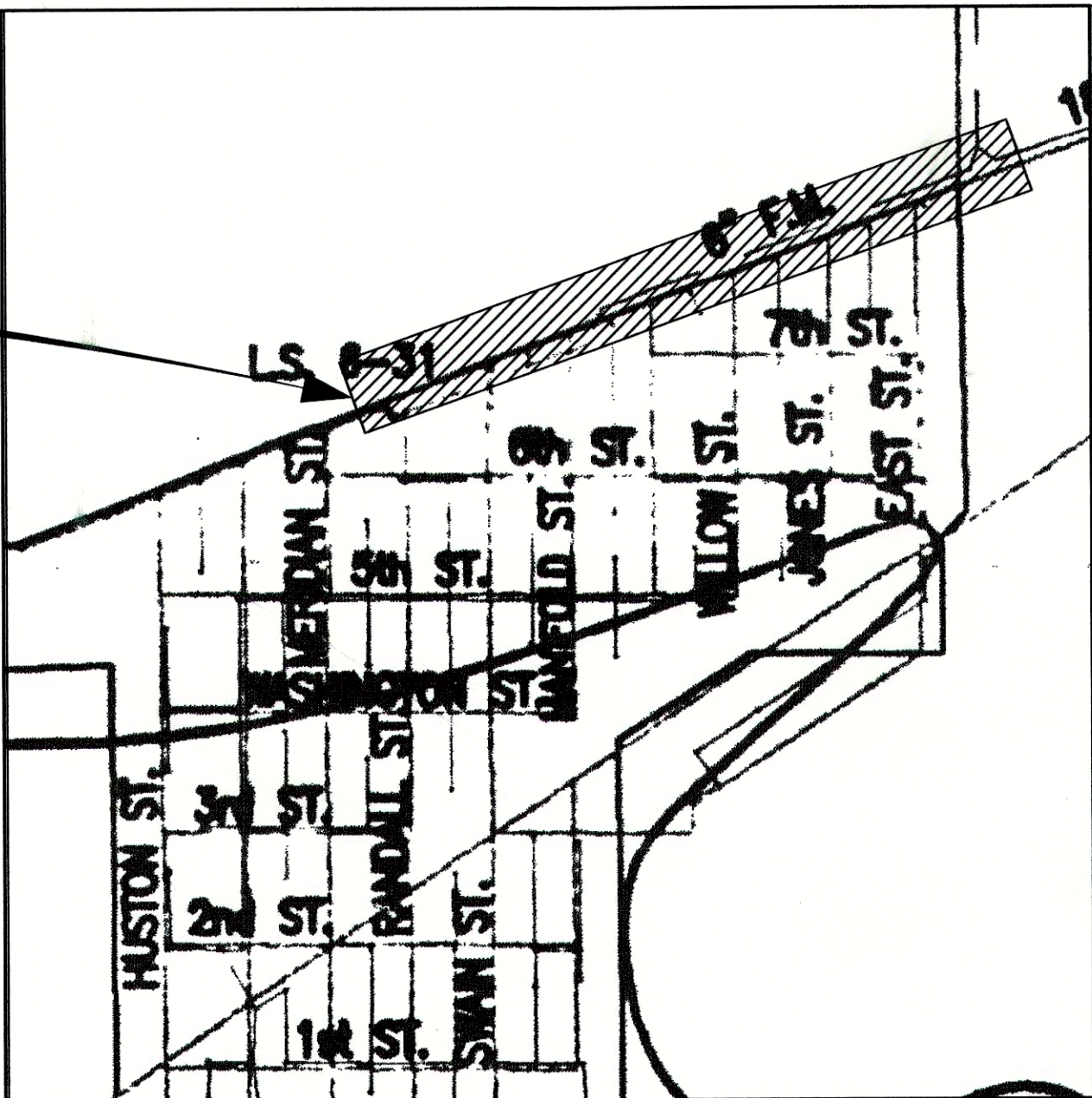
FALL CREEK REGIONAL WASTE DISTRICT PENDLETON, INDIANA INGALLS FORCE MAIN REPLACEMENT

VICINITY MAP



PROJECT LOCATION

SITE LOCATION MAP



GRW
GRW Engineers, Inc.
7112 Waldemar Drive
Indianapolis, Indiana 46268
(317) 347-3650

INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
KNOXVILLE & NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

FCRWD MEMBERS

MORRIS E. Mc CURDY	-	PRESIDENT
MARK A. JABLONSKI	-	VICE PRESIDENT
AGON D. TOLBERT	-	SECRETARY
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DAVID K. PADGETT	-	BOARD MEMBER
TIMOTHY E. GREEN	-	BOARD MEMBER
EDWARD L. STERGAR, JR.	-	BOARD MEMBER
JOE ROWLETT	-	GENERAL MANAGER
CHRIS JANAK	-	ATTORNEY

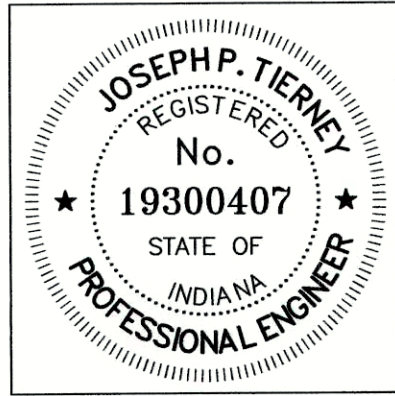
SHEET INDEX

NO.	DESCRIPTION
C-01	COVER SHEET
C-02	INDEX/ GENERAL NOTES
C-03	PLAN AND PROFILE STA. 10+00 TO 18+50
C-04	PLAN AND PROFILE STA. 18+50 TO 27+50
C-05	PLAN AND PROFILE STA. 27+50 TO 35+80
C-06	DETAIL SHEET
C-07	EROSION CONTROL DETAIL SHEET

OCTOBER 2005

Joseph P. Tierney
JOSEPH P. TIERNEY, P.E.
INDIANA REG. NO. 19300407

DATE: 10/14/05



	CULVERT PIPE		APPROXIMATE SOLID ROCK ELEVATION—NO GUARANTEE OF ACCURACY OR ADEQUACY SEE SPECIFICATIONS
	ROAD/DRIVE RESTORATION REQUIRED		DEPTH OF SOUNDING NO ROCK ENCOUNTERED
	EXISTING BASINS & STRUCTURES TO REMAIN IN SERVICE		BENCHMARK AND NUMBER
	NEW BASINS & STRUCTURES		IRON PIPE
	NEW SIDEWALKS & CONCRETE		FIRE HYDRANT
	NEW GRAVEL/CRUSHED STONE		STORM INLET / CATCH BASIN
	NEW MANHOLE		RAILROAD SPIKE
	NEW PIPING & FLOW DIRECTION		CLEANOUT
	PIPING TO BE ABANDONED		SPECIAL BACKFILL AS SPECIFIED
	HEDGE/TREE LINE		PROPERTY LINE PIN FOUND
	STONE WALL		POST
	WALL (CONCRETE BLOCK, BRICK, ETC.)		CATV PEDESTAL
	DRAIN AND DIRECTION OF FLOW		ROADWAY SIGN
	ROAD W/ CONC. PAVING		SEPTIC CLEANOUT
	ROAD W/ ASPHALT PAVING		RIGHT OF WAY MARKER
	GUY WIRE & ANCHOR		WATER METER
	FENCE W/GATE (NEW)		MAILBOX
	FENCE W/GATE (EXISTING)		POWER POLE
	APP. R. OR APP. P.L.		LIGHT POLE
	APPARENT PROPERTY LINE		YARD HYDRANT
	FINISHED SPOT ELEVATION		CONTROL POINT
	EXISTING SPOT ELEVATION		MANHOLE
	FINAL GRADE		TREE (CONIFEROUS)
	EXISTING GRADE		TREE (DECIDUOUS)
	UNDERGROUND ELECTRIC		EDGE OF PAVEMENT
	RAILROAD		TELEPHONE PEDESTAL
	EXIST. STORM SEWER MAIN		WELL
	EXIST. SANITARY SEWER		SOIL BORING AND NUMBER
	GAS MAIN		STUMP
	WATER MAIN		GAS MARKER
	TELEPHONE LINE		GAS METER
	EXIST. PIPING TO REMAIN IN SERVICE		VALVE
	GUARDRAIL		SIDEWALK
	FIBER OPTIC COMMUNICATIONS CABLE		AIR RELEASE VALVE
	FENCE LINE		
	EDGE OF PAVEMENT		
	RIGHT OF WAY		
	CENTERLINE		

INDIANA GAS COMPANY
2001 LOUISE STREET
ANDERSON, IN. 46016
CONTACT: MR. MIKE JOHNSON
TEL. (317)-592-4500

GTE
1191 RICH ROAD
RICHMOND, IN. 47374
CONTACT: MS. JOANN ANTHONY
(317)-984-2251

TCI CABLE
335 EAST 10TH STREET
ANDERSON, IN. 46016
CONTACT: MR. ROCKEY BENNETT
(765)-649-5228

CINERGY / PSI
100 MILL CREEK ROAD
NOBLESVILLE, IN. 46060
CONTACT: MR. TRACEY GRADY
(317)776-5352

CENTRAL INDIANA POWER
2243 EAST MAIN ST.
GREENFIELD, IN. 46140
CONTACT: MR. GARY SARGENT

INGALLS WATER
249 NORTH MERIDIAN ST.
INGALLS, IN. 46048
CONTACT: MR. RANDY McVEY
(317)-485-4321

SPRINT
50 NORTH JACKSON ST.
FRANKLIN, IN. 46131
CONTACT: MS. NANCY PICKEREL
(317)-736-5309

1. THE FOLLOWING GENERAL NOTES ARE APPLICABLE TO THE ENTIRE SET OF PLANS, AND ARE NOT SHOWN ON EACH INDIVIDUAL SHEET. HOWEVER, THE CONTRACTOR OF ANY RESPONSIBILITY TO PROVIDE THESE ITEMS FOR ALL AREAS.
2. THE DISTRICT ASSUMES NO RESPONSIBILITY FOR THE LACK OF LOCATION OR MISSED LOCATION OF EXISTING UTILITIES.
3. THE CONTRACTOR SHOULD VERIFY THE EXISTING CONDITIONS TO HIS SATISFACTION PRIOR TO BEGINNING ANY EXCAVATION. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE TELEPHONE IS 1-800-382-5544
4. ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STREETS, DRIVES, WALKS, FENCES, LAWNS, ETC. SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THOSE PRIOR TO CONSTRUCTION.
5. ALL MANHOLE RIM ELEVATIONS ARE APPROXIMATE. RIMS SHALL BE SET FLUSH WITH GRADE UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN THE PROPOSED SEWER AND EXISTING WATER LINES. CROSSING SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE WITH THE SEWER BELOW THE WATER LINE WHEN POSSIBLE.
7. ALL AIR RELEASE STRUCTURES LOCATIONS INDICATED ON THE PLANS ARE SHOWN AS APPROXIMATE LOCATIONS AND THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
8. STREET LINES AND PROPERTY LINES SHOWN ON THIS PLAN ARE NOT THE RESULT OF DEED RESEARCH AND ARE TO BE CONSIDERED APPROXIMATE AND FOR REFERENCE ONLY.
9. BASELINE STATIONING IS ALONG THE CENTERLINE OF PROPOSED SEWER.
10. ALL EXISTING SIZES AND INVERTS OF EXISTING UTILITIES ARE BASED ON BEST INFORMATION AVAILABLE. HOWEVER, THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR APPROXIMATE. THE CONTRACTOR SHALL DETERMINE WHICH UTILITIES MAY CONFLICT WITH HIS WORK AND VERIFY THEIR LOCATIONS, SIZES, AND INVERTS, ETC. ADJUST HIS WORK ACCORDINGLY, AND NOTIFY THE ENGINEER OF ANY SUCH CONFLICT. THE CONTRACTOR SHALL REFER TO SPECIFICATIONS RELATIVE TO THE ABOVE.
11. ALL INFORMATION REGARDING HORIZONTAL AND VERTICAL CONTROL ARE BASED ON BEST INFORMATION AVAILABLE UTILIZING RECORD DRAWINGS OF THE SITE. THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE. THE CONTRACTOR SHALL DETERMINE WHICH CONTROLS CONFLICT WITH HIS WORK AND VERIFY THOSE ELEVATIONS, ETC. AND ADJUST HIS WORK ACCORDINGLY TO MAINTAIN PROPOSED ELEVATIONS RELATIVE TO THOSE VERIFIED, AND NOTIFY THE ENGINEER OF ANY SUCH CHANGE FOR APPROVAL.
12. THE ENGINEER SHALL BE NOTIFIED OF ANY FIELD TILES FOUND DURING CONSTRUCTION OPERATIONS. ANY SUCH TILE THAT IS DAMAGED SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
13. ALL UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL AFFECTED UTILITIES AND LOCAL UTILITIES PROTECTION SERVICE PRIOR TO EXCAVATION (SEE NOTE 3).
14. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING, ADJUSTING, AND/OR HOLDING ANY UTILITY LINE AND/OR ASSOCIATED SERVICE POLE, OR DOWN GUY AT HIS OWN EXPENSE. HE SHALL ALSO BE RESPONSIBLE TO CONTACT ANY UTILITY OWNER AS NECESSARY TO RESOLVE ALL UTILITY CONFLICTS INCURRED DURING THE COMPLETION OF HIS CONSTRUCTION OPERATIONS.
15. CONTRACTOR SHALL USE CAUTION IN THE INSTALLATION OF NEW EQUIPMENT SO AS TO NOT DAMAGE EXISTING UTILITIES, ETC. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EQUIPMENT OR UTILITIES DAMAGED AS A RESULT OF CONTRACTOR'S CONSTRUCTION OPERATIONS AND PRACTICES.
16. CONNECTIONS OF ROOF DRAINS, FOUNDATION DRAINS AND ANY OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING CONTINUED OPERATION OF THE EXISTING SEPTIC SYSTEMS DURING CONSTRUCTION.
18. LIMITS OF CONSTRUCTION SHALL BE MAINTAINED WITHIN PERMANENT AND TEMPORARY EASEMENTS AS SHOWN ON PLANS.
19. TAKE PRECAUTION AS NECESSARY TO PREVENT DAMAGE TO ANY EXISTING TREES AND THEIR ROOT SYSTEMS. IF NECESSARY, BORE UNDER ROOT SYSTEM TO PREVENT POSSIBLE FUTURE DAMAGE TO TREE GROWTH AND SURVIVAL.
20. CONTRACTOR SHALL COORDINATE BYPASS PUMPING EFFORTS WITH FALL CREEK REGIONAL WASTE DISTRICT.

1. CONTROL POINT 1000: CHISELED "X" IN NORTHSIDE OF WETWELL ON SOUTHSIDE OF REFORMATORY RD. EL. 849.27
2. TBM#1: MAG NAIL 1' UP IN UTILITY POLE ON THE NORTHEAST CORNER OF REFORMATORY RD. AND COUNTY ROAD 650 WEST. EL 864.48

RECORD DRAWING

This drawing has been revised from the original contract drawings to show minor / major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

GRW Engineers, Inc.

Date: 5/10/02 By: JPT

CALL TWO WORKING DAYS
BEFORE YOU DIG
IT'S THE LAW
1-800-382-5544

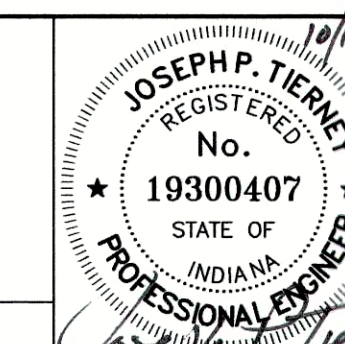
NOTES:

①	AS-BUILT REVISION	MAY 2006	SM
NO.	DESCRIPTION	DATE	BY
REVISIONS			

FALL CREEK REGIONAL WASTE DISTRICT
PENDELTON, INDIANA
INGALLS FORCE MAIN REPLACEMENT

INDEX/GENERAL NOTES

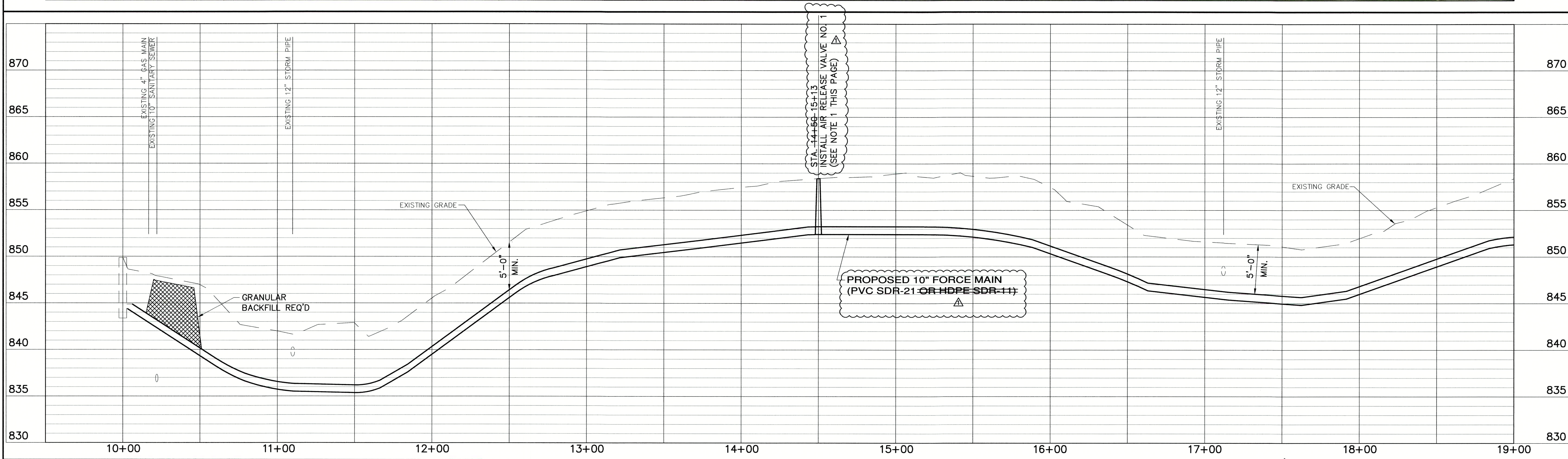
GRW PROJECT NO. 3290



GRW Engineers, Inc.
Engineers, Architects, Planners

INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

DRAWN: BJD	DATE: OCTOBER 2005
FILE NAME: 3290_C-02.dwg	SCALE: AS SHOWN
CHECKED: JPT	SHEET NO. C-02
APPROVED: JPT	



NOTES:

1.) CONTRACTOR SHALL ESTABLISH HIGH POINT IN FORCE MAIN AS SHOWN ON PROFILE AT OR ABOUT 14+50.

2.) CONTRACTOR SHALL INSTALL BOLT DOWN FRAME AND COVER TO EXISTING MANHOLE. FRAME SHALL BE BOLTED TO CONE SECTION OF MANHOLE, AND LID SHALL BE BOLT DOWN TYPE.

NO.	DESCRIPTION	DATE	BY
1	AS-BUILT REVISION	MAY 2006	SM

FALL CREEK REGIONAL WASTE DISTRICT
PENDLETON, INDIANA
INGALLS FORCE MAIN REPLACEMENT

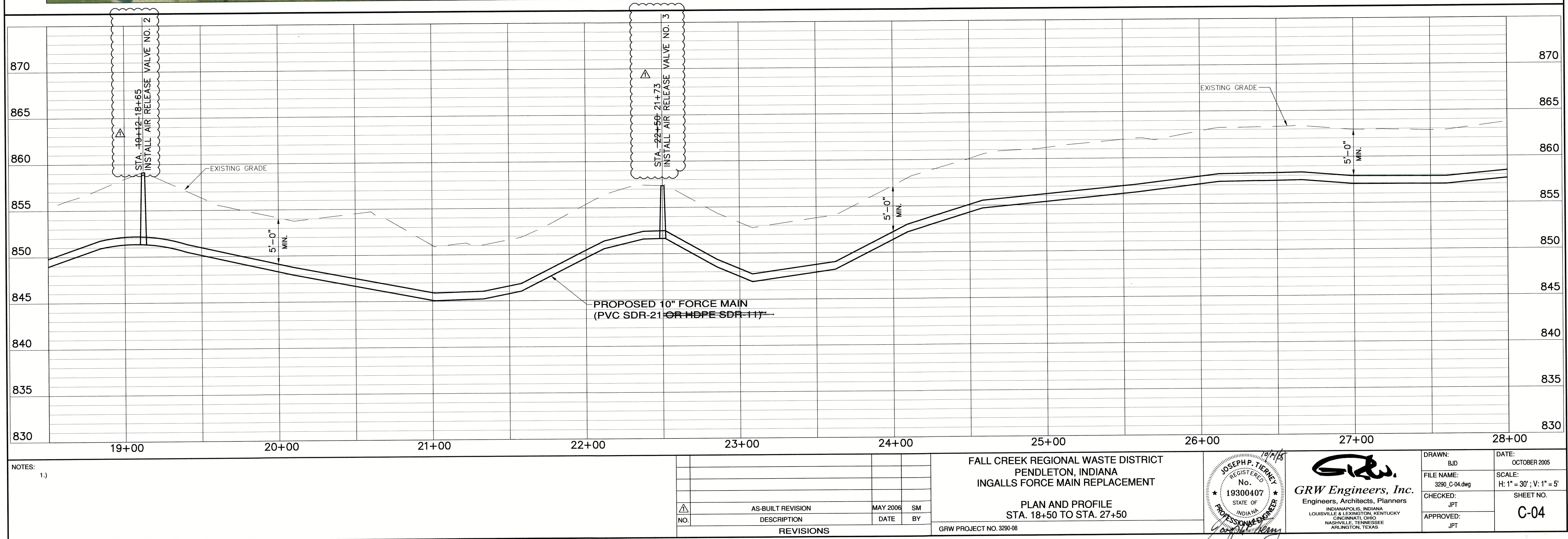
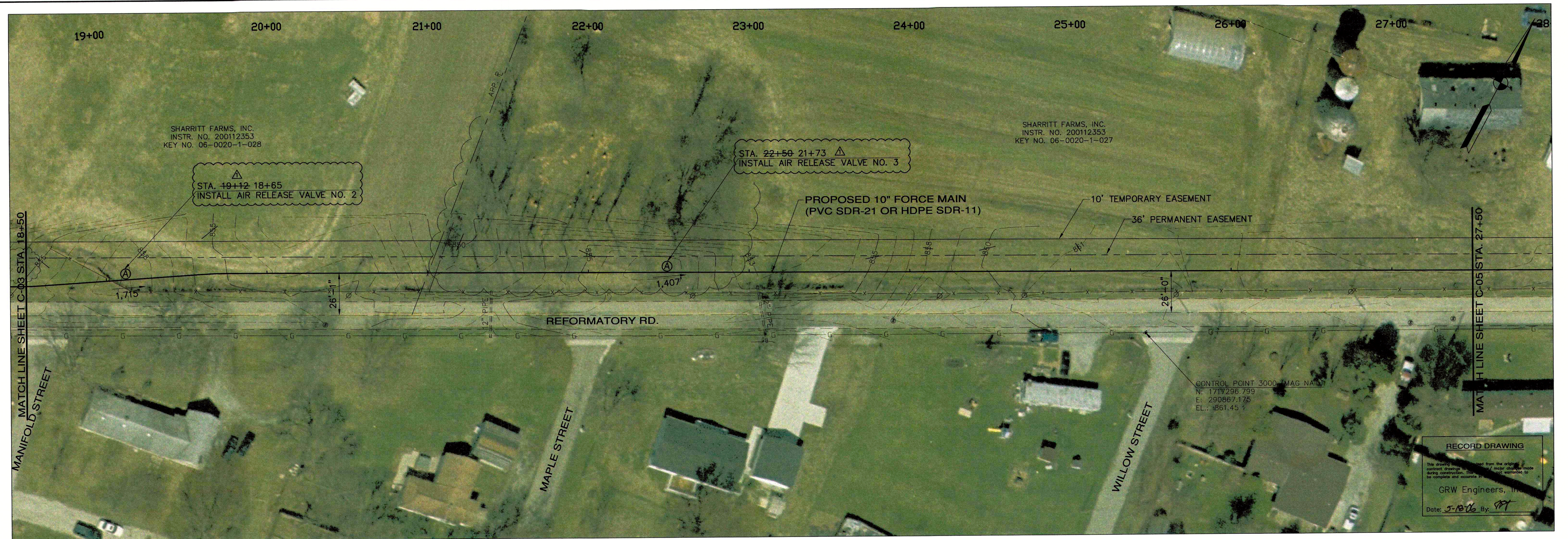
PLAN AND PROFILE
STA. 10+00 TO STA. 18+50

GRW PROJECT NO. 3290-08

JOSEPH P. TIENEY
REGISTERED
No. 19300407
STATE OF INDIANA
PROFESSIONAL ENGINEER

GRW
GRW Engineers, Inc.
Engineers, Architects, Planners
INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

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CHECKED: JPT	SHEET NO. C-03
APPROVED: JPT	



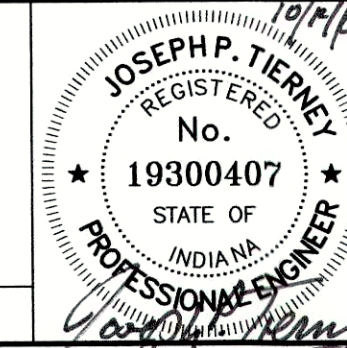
NOTES:
1.)

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	AS-BUILT REVISION	MAY 2006	SM

FALL CREEK REGIONAL WASTE DISTRICT
PENDLETON, INDIANA
INGALLS FORCE MAIN REPLACEMENT

PLAN AND PROFILE
STA. 18+50 TO STA. 27+50

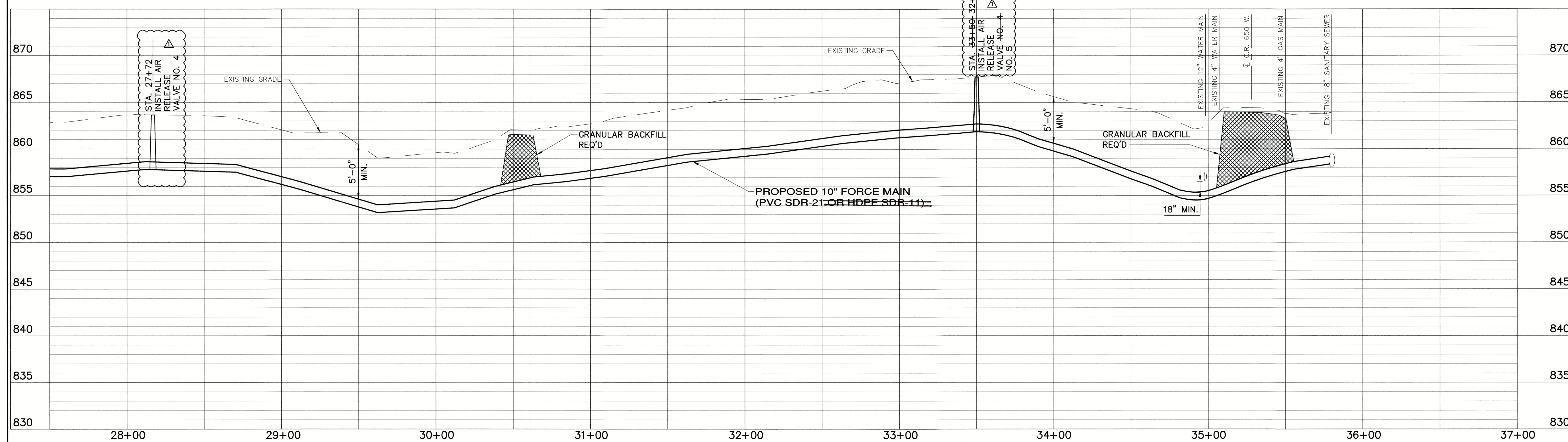
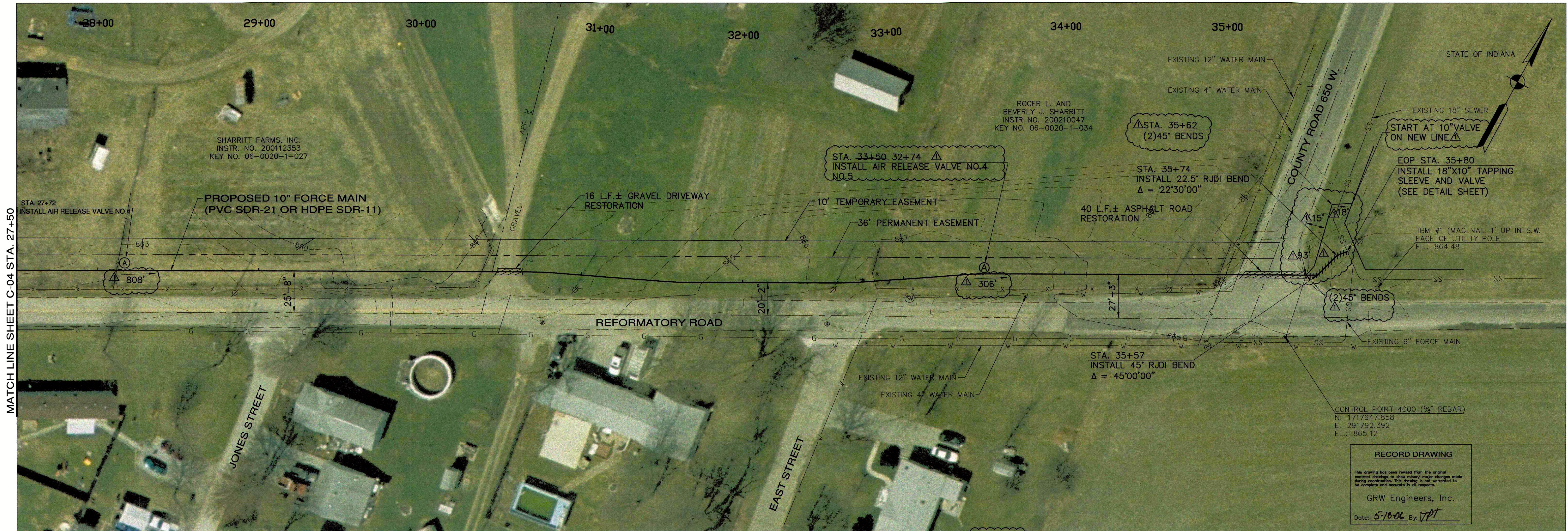
GRW PROJECT NO. 3290-08



GRW Engineers, Inc.
Engineers, Architects, Planners
INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

DRAWN: BJD	DATE: OCTOBER 2005
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CHECKED: JPT	SHEET NO. C-04
APPROVED: JPT	

MATCH LINE SHEET C-04 STA. 27+50



NOTES:

1.)

NO.	DESCRIPTION	DATE	BY
1	AS-BUILT REVISION	MAY 2006	SM

FALL CREEK REGIONAL WASTE DISTRICT
PENDLETON, INDIANA
INGALLS FORCE MAIN REPLACEMENT

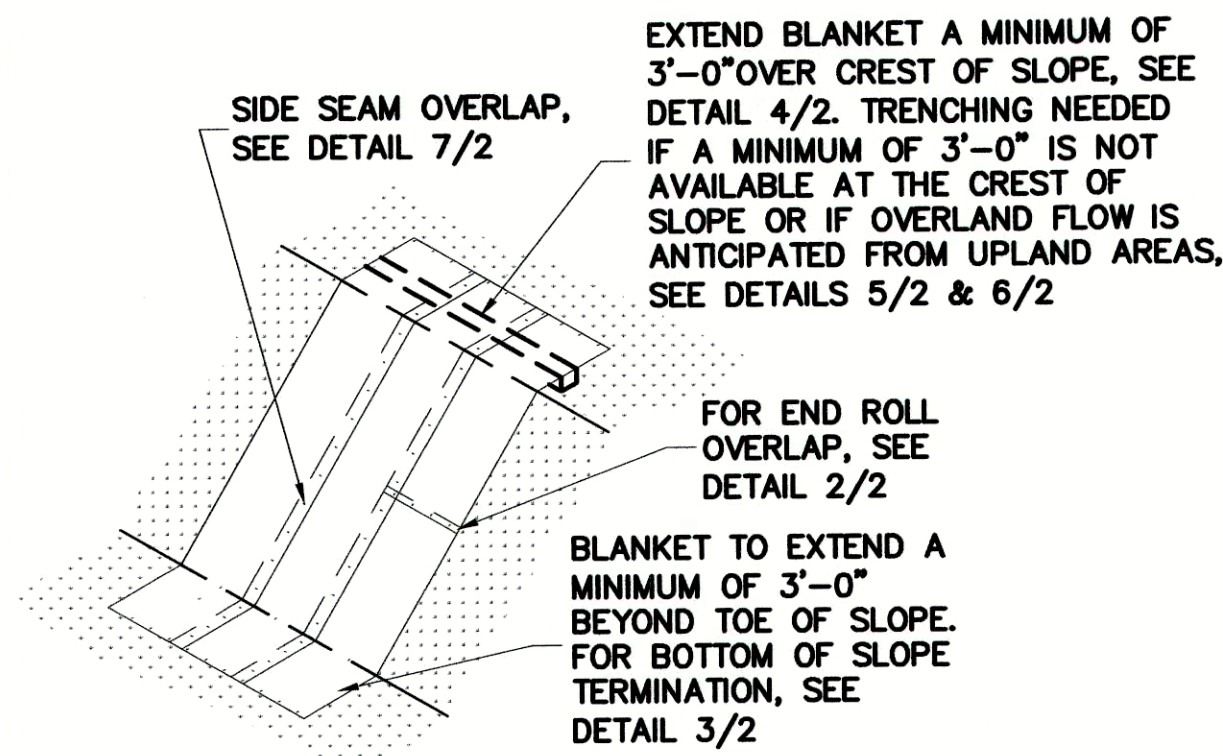
PLAN AND PROFILE
STA. 27+50 TO STA. 35+80

GRW PROJECT NO. 3290-08

JOSEPH P. TURLEY
REGISTERED
No. 19300407
STATE OF INDIANA
PROFESSIONAL ENGINEER

GRW
GRW Engineers, Inc.
Engineers, Architects, Planners
INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

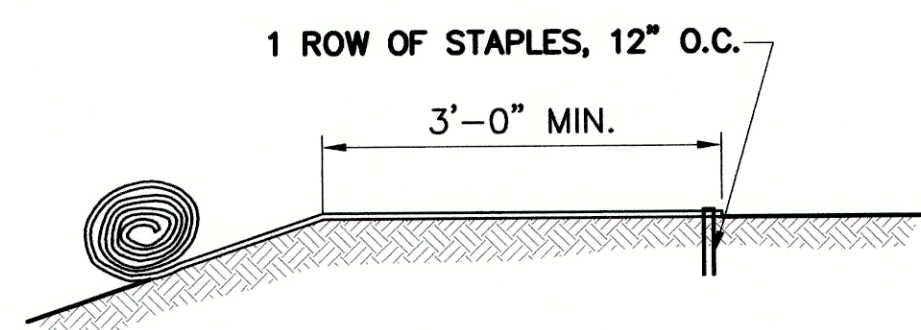
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APPROVED: JPT	



SLOPE DETAIL 1/2
N.T.S.

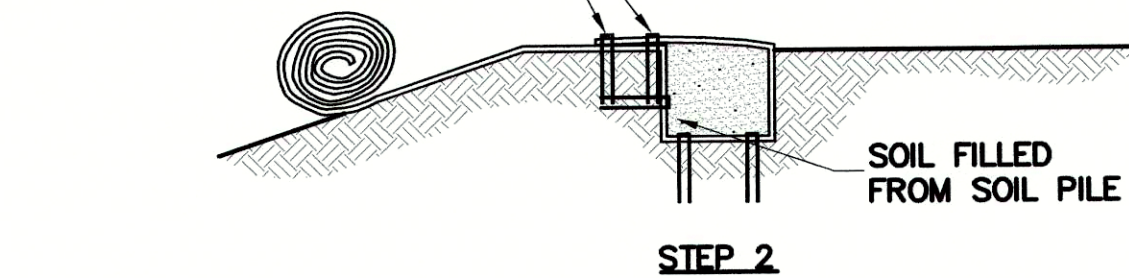
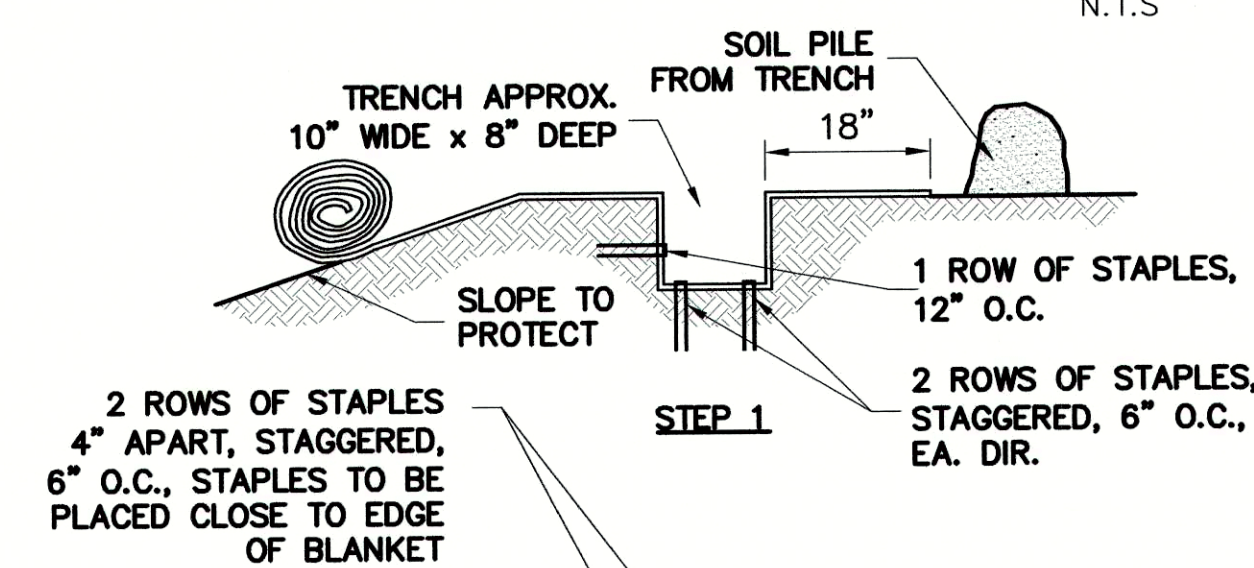
END SEAM OF BLANKETS OVERLAP 2"-4". PLACE STAPLES, ONE ON EACH CORNER OF BLANKET, 12" O.C. ALONG BLANKET END THROUGH BOTH BLANKETS. UPSLOPE BLANKET LAPS OVER DOWNSLOPE BLANKETS IN A SHINGLE AFFECT.

END ROLL OVERLAP 2/2
N.T.S.



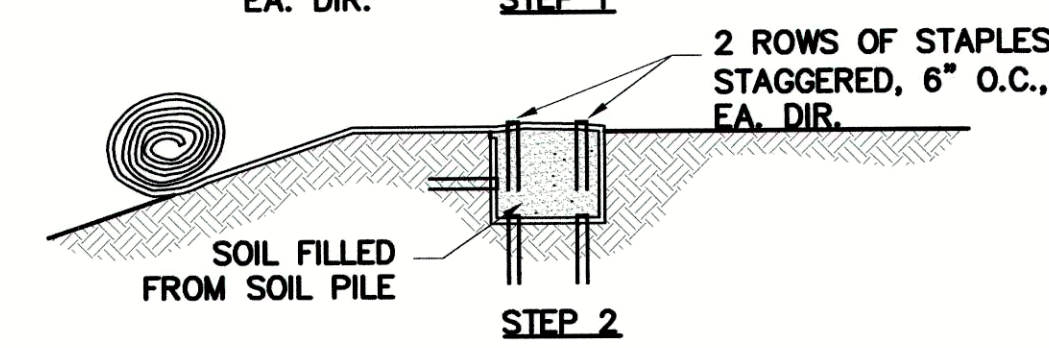
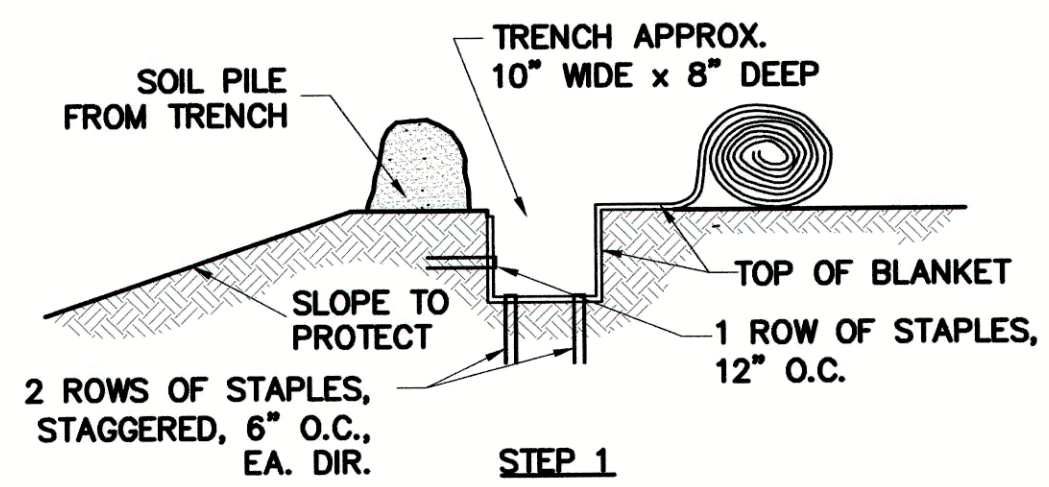
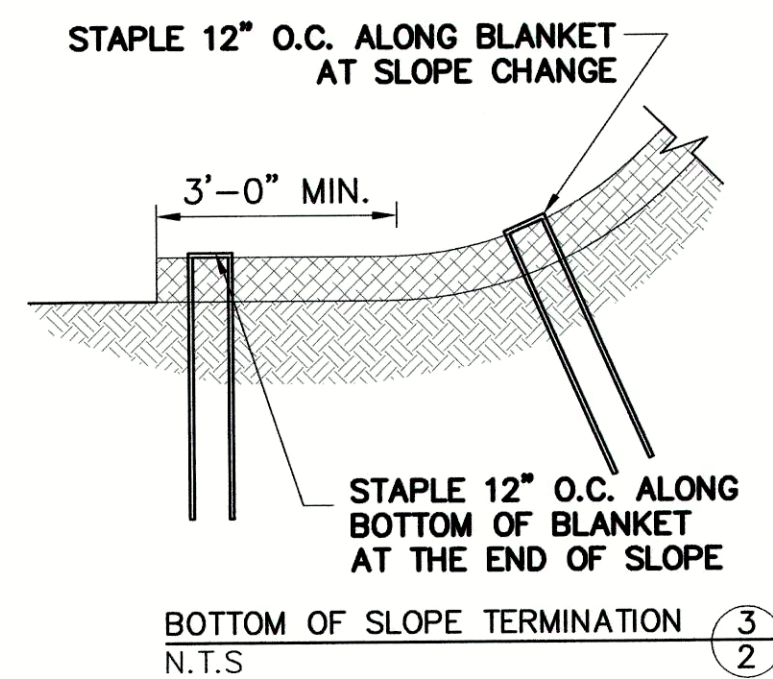
SLOPE CREST ANCHOR (NO TRENCH) 4/2
N.T.S.

DO NOT NEED TO TRENCH BLANKET IF IT CAN BE EXTENDED A MINIMUM OF 3'-0" OVER THE CREST OF THE SLOPE.

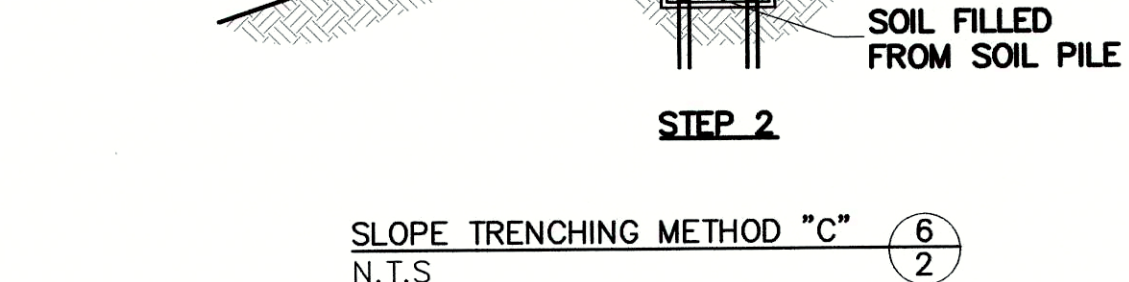


SLOPE TRENCHING METHOD "C" 6/2
N.T.S.

STAPLES ARE THROUGH BOTH BLANKETS.

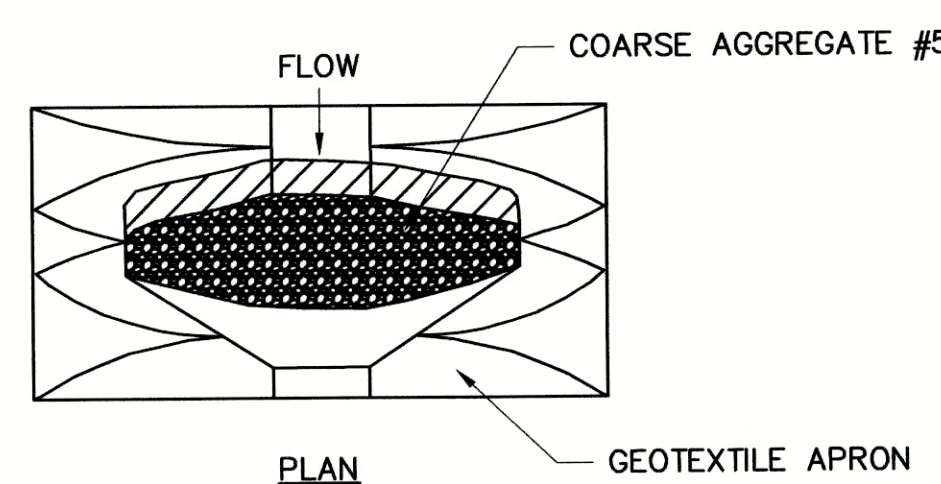
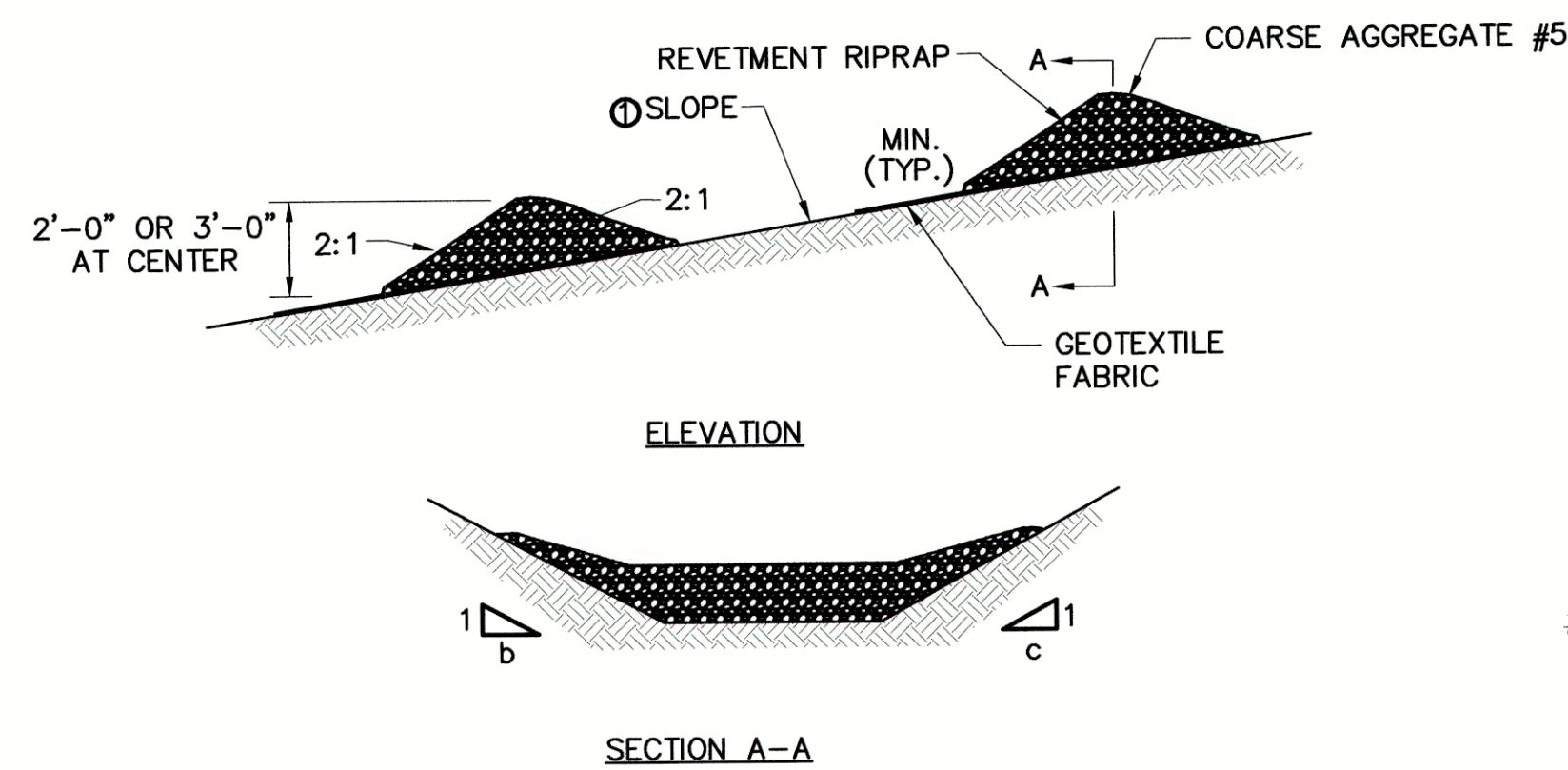


SLOPE TRENCHING METHOD "B" 5/2
N.T.S.



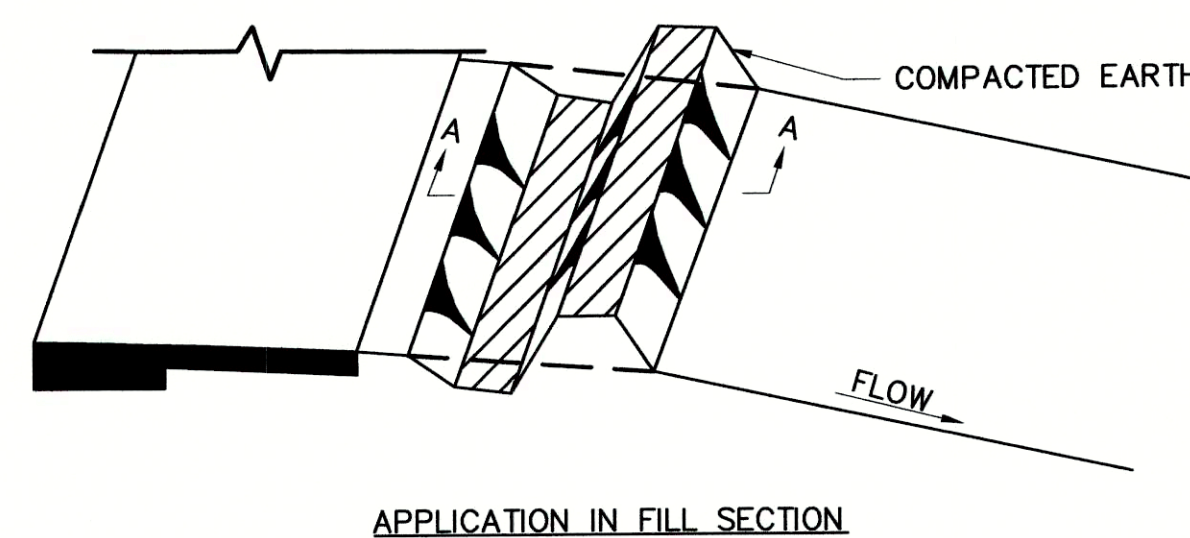
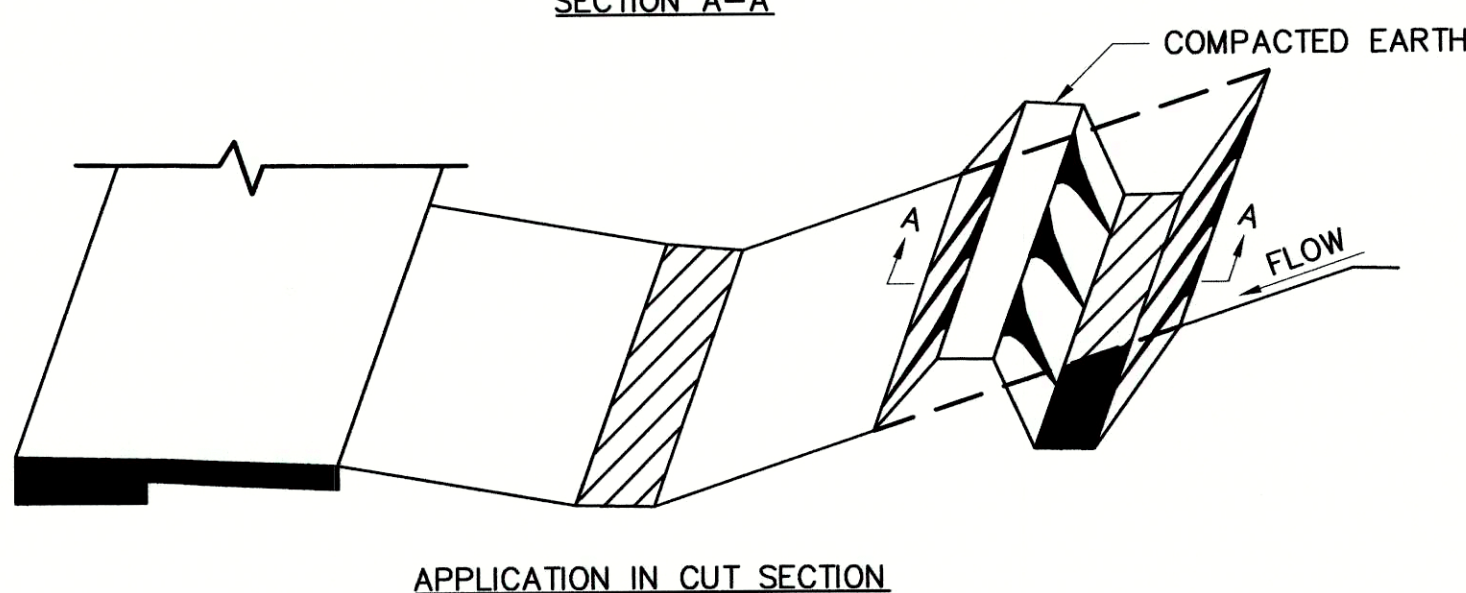
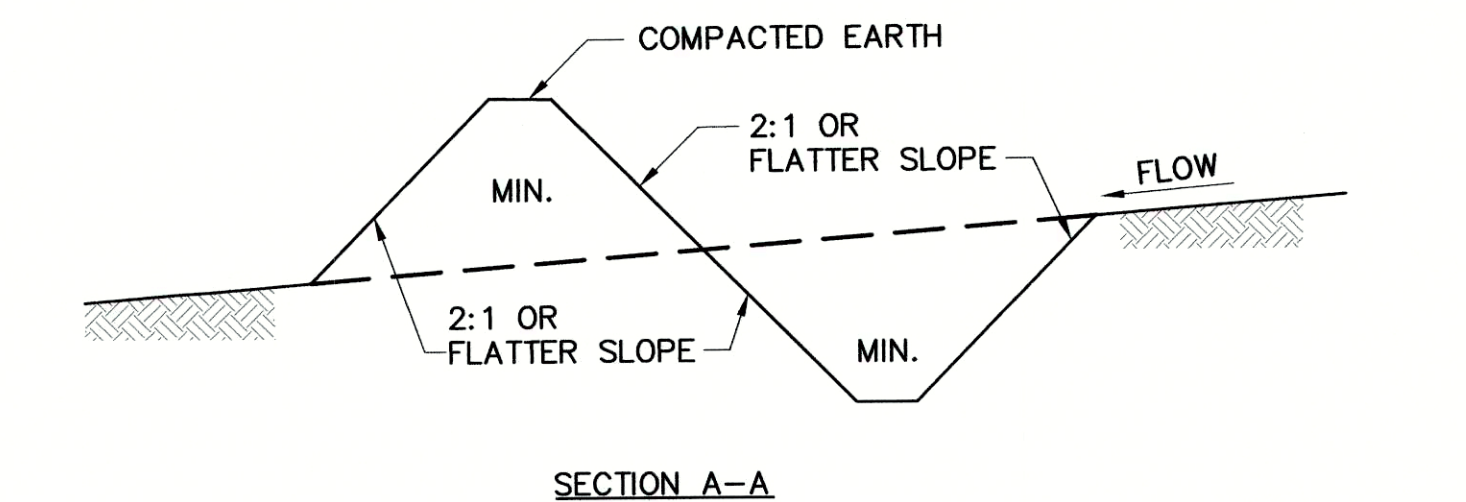
SLOPE TRENCHING METHOD "C" 6/2
N.T.S.

EROSION BLANKET DETAILS
N.T.S.

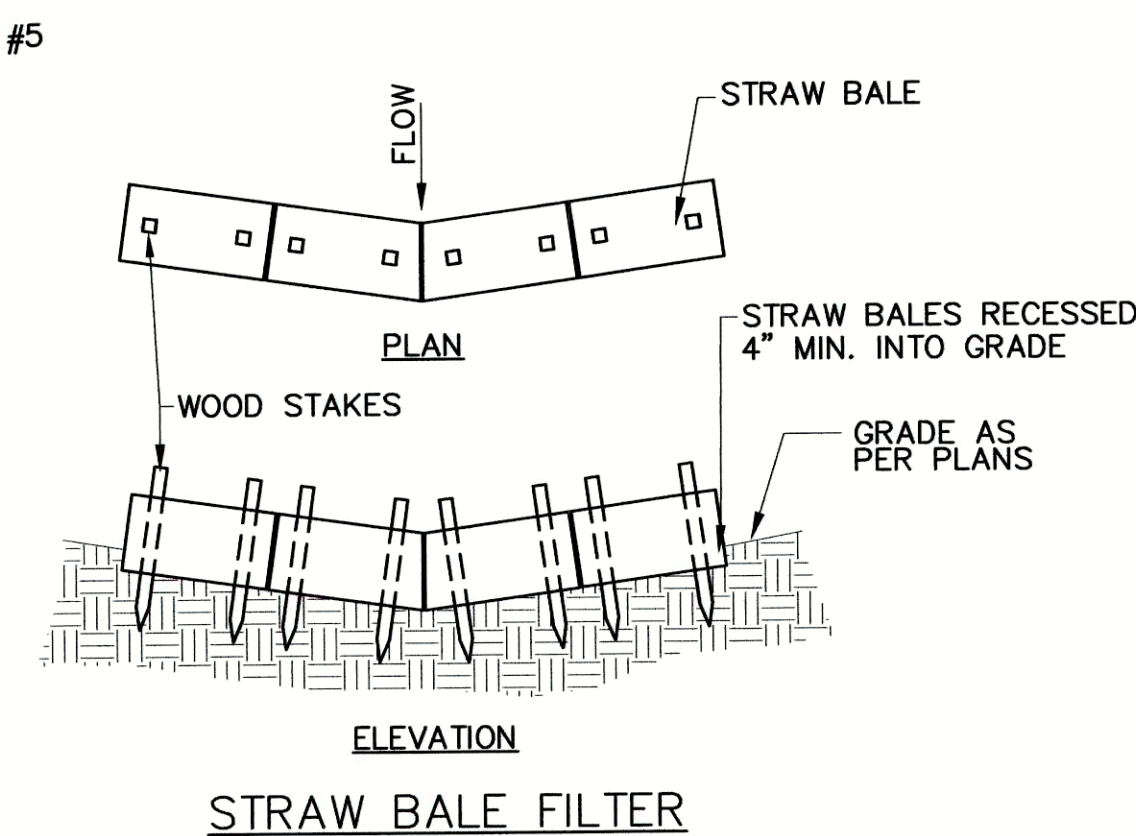


TEMPORARY CHECK DAM

1. RIPRAP DITCH CHECK DAMS SHALL BE SPACED SUCH THAT THE TOPOF THE DOWNSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE TOE OF THE ADJACENT UPSTREAM CHECK DAM.
2. THE VOLUME OF COARSE AGGREGATE #5 IS $1/27[a + 3(b+c)]$, CYS.
3. THE AREA OF GEOTEXTILE FABRIC IS $1/9[12 + 21(b+c)]$, SYS.



DIVERSION DITCH DETAIL
N.T.S.



STRAW BALE FILTER

1. ALL BALES SHOULD ALL BE EITHER WIRE-BOUND OR STRING-TIED. STRAW BALES SHOULD BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.
2. THE BARRIER SHOULD BE ENTRENCHED AND BACKFILLED. A TRENCH SHOULD BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHOULD BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHOULD CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHOULD BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER.
3. EACH BALE SHOULD BE SECURELY ANCHORED BY AT LEAST TWO STAKES OF WOOD OR STEEL DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHOULD BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES SHOULD BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
4. THE GAPS BETWEEN BALES SHOULD BE CHINKED (FILLED BY WEDGING) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.
5. INSPECTION SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED.
6. STRAW BALE BARRIERS SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
7. IN SHEET FLOW APPLICATIONS, BALES SHOULD BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

IN CHANNEL FLOW APPLICATIONS, BALES SHOULD BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. THE BARRIER SHOULD BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL BE TRAPPED.

SEASONAL SOIL PROTECTION CHART

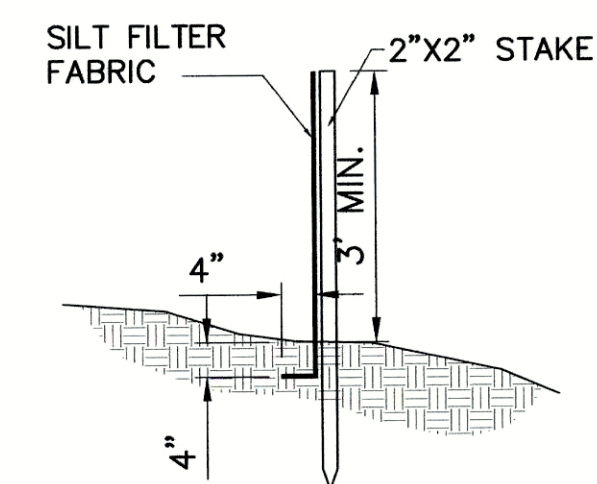
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING			B									
TEMPORARY SEEDING			C									
SODDING			F									
MULCHING			G									

- A = 40% FINE LAWN FESCUE; 25% CHEWING FESCUE; 20% ITALIAN RYE GRASS; 10% RED TOP; 5% WHITE COVER AT 3LBS PER 1000 SQ. FT. PLUS 3 TONS STRAW MULCH/ACRE
- B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE, PLUS 3 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.
- C = SPRING OATS 3 BUSHEL/ACRE
- D = WHEAT OR RYE 2 BUSHEL/ACRE
- E = ANNUAL RYEGRASS 40 LBS/ACRE. (1 LB/1000 SQ. FT.)
- F = SOD
- G = STRAW MULCH 3 TONS/ACRE (ANCHORED)
- *///* IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPTEMBER.
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

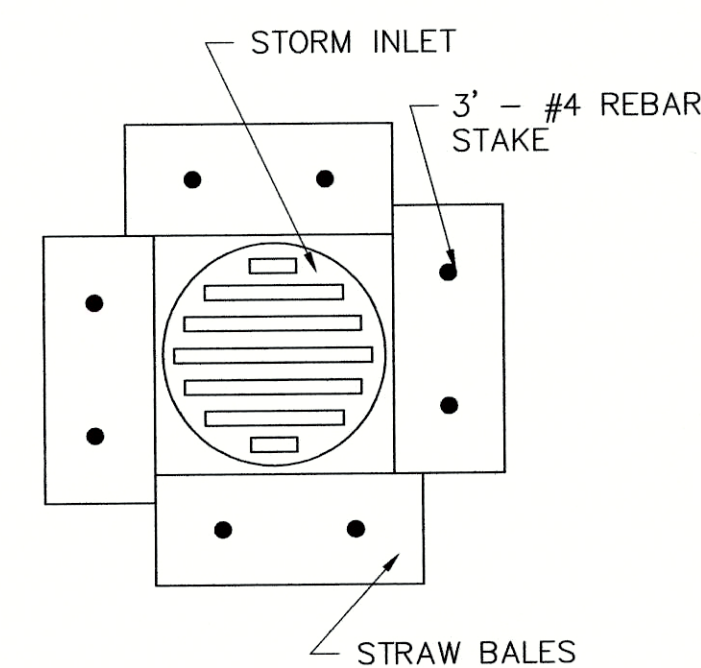
EROSION CONTROL PLAN

DURING ALL PHASES OF CONSTRUCTION THE SITE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL EXERCISE MEASURES TO PREVENT THE EROSION OF SOILS DUE TO THE ACTION OF WATER AND WIND. THE CONTRACTORS SHALL USE THE FOLLOWING MEASURES TO ACCOMPLISH THIS OBJECTIVE:

- A. SURFACE PROTECTION**
 1. CLEARING SHALL BE LIMITED SO AS TO EXPOSE THE SMALLEST POSSIBLE AREA OF LAND FOR THE SHORTEST POSSIBLE TIME.
 2. EXPOSED AREAS SHALL BE IMMEDIATELY GRADED AND PROTECTED WITH TEMPORARY OR PERMANENT COVER, SUCH AS SOD, SEED AND MULCH, CROWVEATCH, LESPEDEZA OR CREEPER. NEWLY GRADED CHANNELS OR STEEP SLOPES WILL REQUIRE THE USE OF FIBROUS MATTING, NETTING OF SEEDED AND MULCHED AREAS, OR THE STAKING OR SHINGLING OF SOD WHILE VEGETATION IS BECOMING ESTABLISHED.
- B. RUN-OFF CONTROL**
 1. LONG AND/OR STEEP SLOPES WILL REQUIRE CONTOUR BENCHING AND FURROWING, OR BERMS TO REDUCE RUN-OFF VELOCITIES.
- C. SEDIMENT TRAPPING**
 1. THE TRAPPING OF ERODED PARTICLES WILL BE ACCOMPLISHED BY THE DIVERSION OF RUN-OFF TO SEDIMENT BASINS, EXCAVATION TRAPS, BERMS, STAKED HAY BALES, OR FLOATING SILT CURTAINS.
 2. THE PROPOSED RETENTION AND/OR DETENTION POND(S) ALONG WITH ANY ENVIRONMENTAL BERM(S)/REAR YARD SWALE(S) SHALL BE CONSTRUCTED FIRST. THE POND(S) AND OUTFALL STRUCTURE(S) MUST BE COMPLETE AND OPERATIONAL PRIOR TO THE PLACEMENT OF ANY IMPERVIOUS SURFACE.
 3. TRAPPING DEVICES SHALL BE PERIODICALLY INSPECTED DURING DRY PERIODS AND AFTER EACH RAINFALL EVENT BY THE SITE CONTRACTOR. TRAPPING DEVICES SHALL BE REPLACED IF DETERMINED TO BE INCAPABLE OF PERFORMING INTENDED FUNCTION OF SEDIMENT TRAPPING.
 4. TRAPPING DEVICES SHALL REMAIN IN PLACE UNTIL A VEGETATIVE COVER HAS ESTABLISHED SUFFICIENTLY TO STABILIZE THE SOILS AND PREVENT EROSION.
- D. SOIL MOISTURE**
 1. THE CONTRACTOR SHALL HAVE AVAILABLE ON THE CONSTRUCTION SITE A WATER SOURCE CAPABLE OF APPLYING WATER TO DRY EXPOSED SOIL IN ORDER TO PREVENT WIND EROSION. THE APPLICATION RATE AND MANNER SHALL BE SUCH THAT SOIL MOISTURE IS ATTAINED AND NO SURFACE RUN-OFF IS CREATED.
- E. RESPONSIBILITY**
 1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED. AFTER THAT, THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER COLLECTION AND DETENTION SYSTEM.



SILT FENCE DETAIL
N.T.S.



INLET PROTECTION
N.T.S.

RECORD DRAWING

This drawing has been revised from the original contract drawings to show minor / major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

GRW Engineers, Inc.

Date: 5/18/04 By: JPT

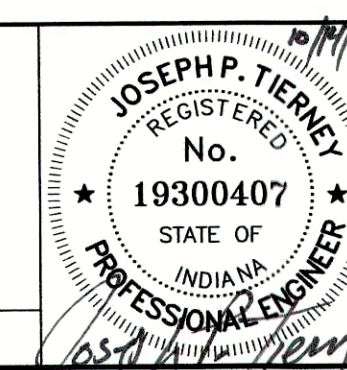
NOTES:

NO.	DESCRIPTION	DATE	BY
1	AS-BUILT REVISION	MAY 2006	SM

FALL CREEK REGIONAL WASTE DISTRICT
PENDLETON, INDIANA
INGALLS FORCE MAIN REPLACEMENT

EROSION CONTROL DETAIL SHEET

GRW PROJECT NO. 3290-12



GRW Engineers, Inc.
Engineers, Architects, Planners
INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS

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