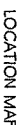


Franklin, Indiana

PREPARED FOR:

SAINT ROSE OF LIMA
114 LANCELOT DRIVE
FRANKLIN, IN 46131



Owner:

FR. JOHN BEITANS - PASTOR
KELLY ENGLAND - PRINCIPAL
SAINT ROSE OF LIMA
1114 LANCELOT DRIVE
FRANKLIN, IN 46131
(317) 738-3451

FRANKLIN CITY PLANNING

DEPARTMENT:
317-736-3631

FRANKLIN CITY ENGINEERING

DEPARTMENT: 317-736-3631

CENTURY LINK, TELEPHONE:

1-800-366-8201

FRANKLIN CITY MS4:
317-736-3680

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JOHNSON COUNTY SOIL AND
WATER DISTRICT:

317-346-6102

DUKE, ELECTRIC:
1-800-521-2232

1-800-521-2232

PROPERTY DESCRIPTION: INSTRUMENT #

A PART OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, IN THE CITY OF FRANKLIN, INDIANA, DESCRIBED AS FOLLOWS:

BEGINNING AT LIND 661.61, FEET SOUTH OF, AND 13.800S AND 15.110NS WEST OF THE NORTHWEST CORNER OF SAID H&M QUARTER SECTION; THENCE SOUTH 89.50 DEGREES THENCE NORTHWESTWEASTLY ON A RIGHT DEFLECTION OF 11.1 DEGREES 32 MINUTES 50 SECONDS A DISTANCE OF 970.00 FEET; THENCE NORTHWESTWEASTLY ON A RIGHT DEFLECTION OF 97 DEGREES 11 MINUTES 0 SECONDS 126.33 FEET; THENCE NORTHWESTWEASTLY ON A LEFT DEFLECTION OF 90 DEGREES 130.00 FEET; THENCE NORTHWESTWESTLY ON A RIGHT DEFLECTION OF 90 DEGREES 370.00 FEET; THENCE SOUTHWESTWESTLY ON A RIGHT DEFLECTION OF 90 DEGREES 130.00 FEET; THENCE NORTHWESTWESTLY ON A LEFT DEFLECTION OF 90 DEGREES 135.00 FEET; THENCE EAST ON A RIGHT DEFLECTION OF 61 DEGREES 09 MINUTES 5 SECONDS 5660.00 FEET TO THE PLAINAGE EASEMENT, CONTAINING 3.1516 ACRES, MORE OR LESS, SUBJECT TO A 50 FOOT PLAINAGE EASEMENT ACROSS THE ENTIRE WEST END AND NORTH SIDE THEREOF.

EXCEPT, A PART OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS:

COMMENCING AT CORNER ON THE EAST LINE OF SAID HALF QUARTER SECTION 1, 565.91 FEET SOUTH OF THE NORTHEAST CORNER THEREOF, SAID POINT BEING 375 FEET NORTH OF THE CENTRINEAL OF STATE ROAD 1-14; THENCE NORTH 66 DEGREES 27 MINUTES WEST 320.40 FEET TO THE PLACE OF BEGINNING OF THIS DESCRIBED TRACT; THENCE CONTINUING NORTH 66 DEGREES 27 MINUTES WEST 336.33 FEET; THENCE NORTH 89 MINUTES EAST 30.00 FEET; THENCE SOUTH 65 DEGREES 27 MINUTES WEST 365.33 FEET; THENCE SOUTHWEST ALONG A CURVE HAVING AN ARC OF 155.11 FEET AND CHORDS MORE OR LESS DIRECTED TO ALL LEGAL RIGHTS OF WAY AND EASEMENTS, DEEDED TO WALKER AND DICKLITZ MAGUIRE, HUSBAND AND WIFE, ON JULY 10, 1968.

AND A PART OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE EAST LINE OF SAID HALF QUARTER SECTION 1556.31 FEET SOUTH OF THE NORTHEAST CORNER THEREOF, SAID POINT BEING 375 FEET NORTH OF THE CENTRINE OF STATE ROAD 144; THENCE NORTH 63 DEGREES 27 MINUTES WEST 716.7 FEET TO THE PLACE OF BEGINNING OF THIS DESCRIBED TRACT; THENCE CONTINUING NORTH 63 DEGREES 27 MINUTES WEST 300 FEET; THENCE SOUTH 17 DEGREES 53 MINUTES WEST 101.4 FEET TO POINT OF BEGINNING OF SAID 344.9 ACRES TRACT; THENCE CONTINUING SOUTH 17 DEGREES 53 MINUTES WEST 344.9 FEET TO THE PLACE OF BEGINNING, CONTAINING 0.24 ACRES, MORE OR LESS, SUBJECT TO ALL LEGAL RIGHTS-OF-WAY AND EASEMENTS.

PROJECT SCOPE:

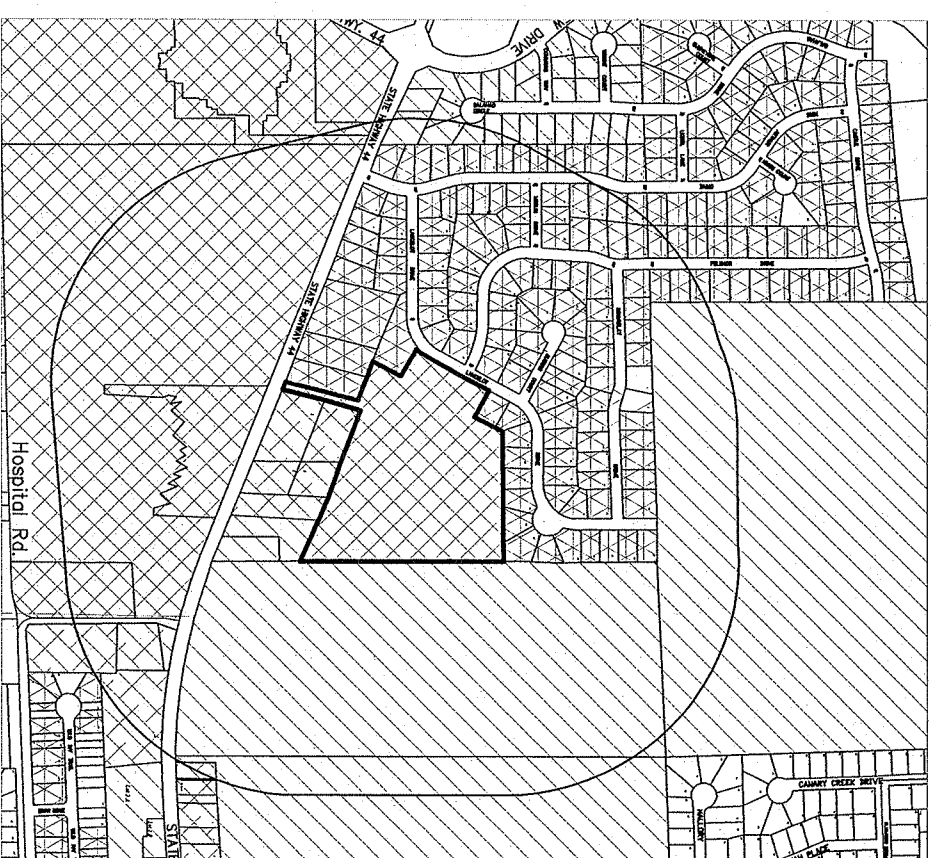
THE PROPOSED PROJECT WOULD REFACE THE CURRENT FOOTBALL FIELD WITH A PERMANENT FIELD. THE PROPOSED IMPROVEMENTS WOULD INCLUDE A GRADED FIELD IMPROVED DRAINAGE, WITH GOLFPOSTS, SURFACE DRAINAGE IMPROVEMENTS, OUTDOORS CLASSROOM WITH RAIN GARDEN & UNDERDRAIN, PLACEMENT OF CONCRETE RUNNERS FOR PORTABLE BLEACHERS, ASPHALT WALKING PATH, AND COVERED ENTRYWAY.

PROJECT LOCATION:

THE PROJECT IS LOCATED ON THE NORTH SIDE OF JEFFERSON STREET, JUST WEST OF METHODIST DRIVE

LATITUDE - 39 DEGREES 28 MINUTES 56 SECONDS
LONGITUDE - 86 DEGREES 4 MINUTES 32 SECONDS

INDEX OF DRAWINGS			
SHEET NO.	DESCRIPTION	REVISIONS	DATE
1	COVER SHEET	REVISION PER CITY	6-8-12
2	EXISTING CONDITIONS	REVISION PER CITY	6-8-12
3	SITE PLAN	REVISION PER CITY	6-8-12
4	FIELD DETAIL	REVISION PER CITY	6-8-12
5	UNDERDRAIN	REVISION PER CITY	6-8-12
6	FIELD DRAINAGE DETAIL	REVISION PER CITY	6-8-12
7	EROSION CONTROL	REVISION PER CITY	6-8-12
8	DETAILS & SWMP	REVISION PER CITY	6-8-12
9	RAIN GARDEN PLAN	REVISION PER CITY	6-8-12
10	RAIN GARDEN DETAILS & PFM		
11	ENTRY DETAILS	REVISION PER CITY	6-8-12



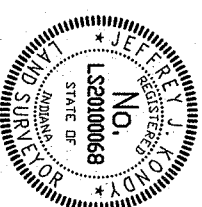
"DON'T
DIG
BLIND"

JOEY WOLFE
SAYS

"IT'S THE
LAW"



INDIANA UNDERGROUND PROTECTION SERVICE, INC.
CALL TWO WORKING DAYS BEFORE YOU DIG.
1-800-382-5544
CALL TOLL FREE
1-800-428-5200



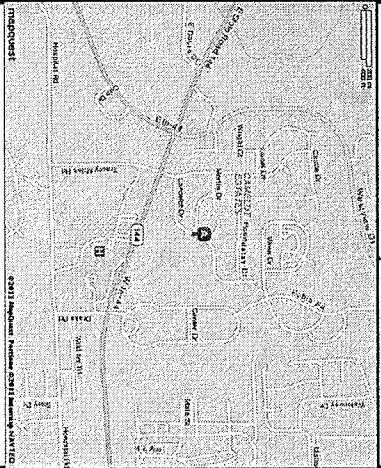
JEFFREY J. KONDY
PROFESSIONAL LAND SURVEYOR NO. 201000668

PLANS PREPARED BY:



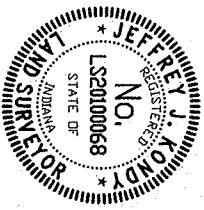
CKW Land Surveying, Inc.
301 East Jefferson St.
Franklin, Indiana 46131
(317) 736-0781 - Office
(317) 736-0791 - Fax

Site Map



Revisions

REVISIONS PER CITY CAP 6-8-12



JEFFREY J. KOMPY
PROFESSIONAL LAND
SURVEYOR NO. 20100068

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Prepared For:

Saint Rose of Lima
114 Laneclot
Franklin, Indiana 46131

Project

Athletic Field
Franklin, Indiana

Sheet Title
Site Plan

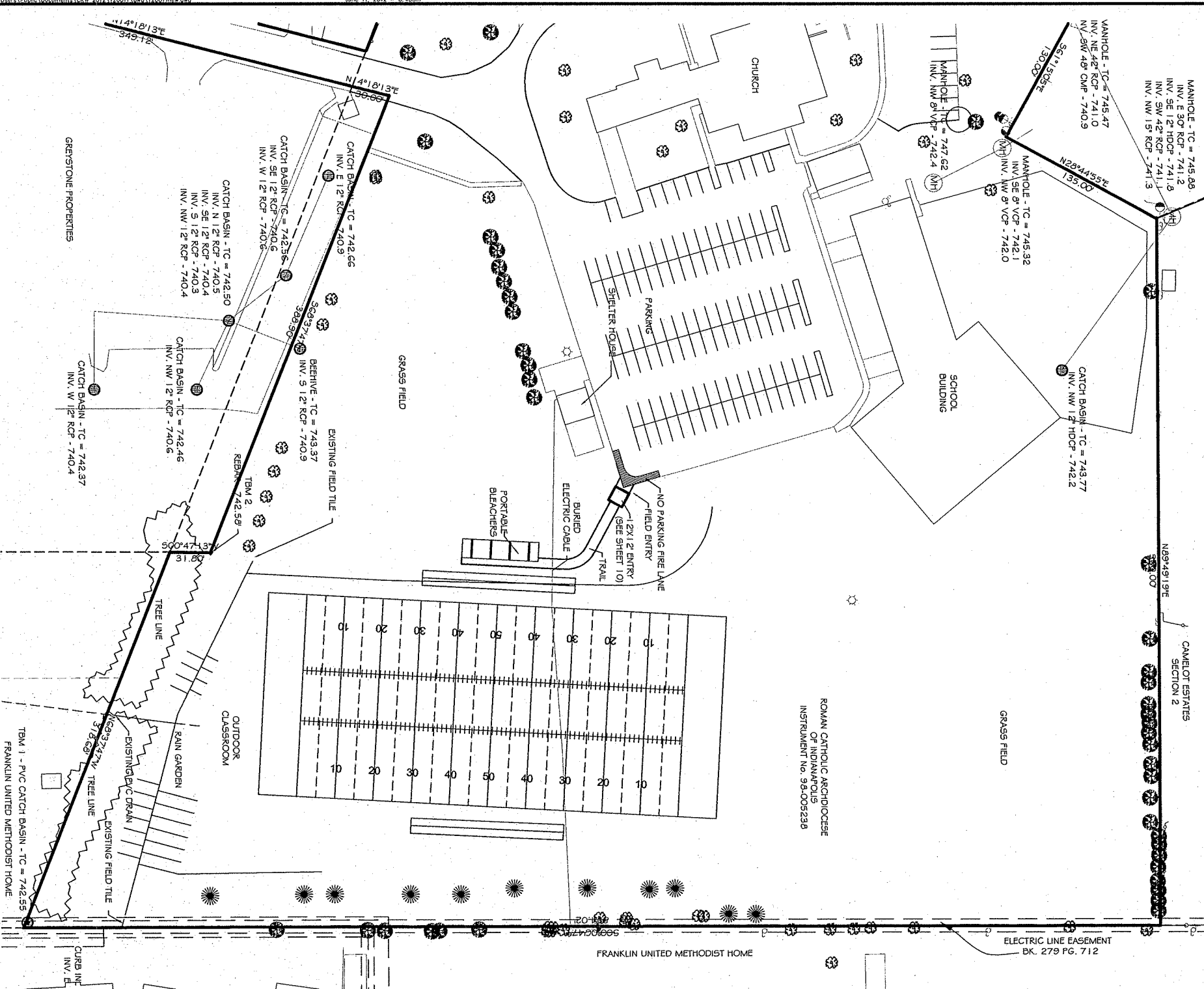
Scale	Drawn	Designed	Checked
1" = 60'	CAP	N/A	JJK

Work Order No.	Sheet
120011	Number

Date: April 25, 2012 3 of 11

Site Plan

Pt. E 1/2 SW 1/4 S15-T12N-R4E

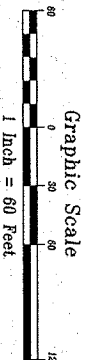
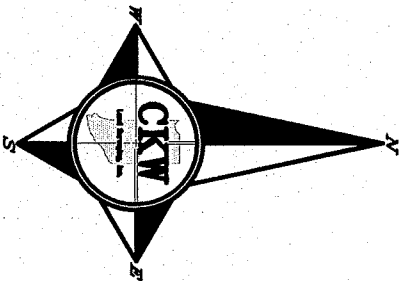


SYMBOL LEGEND

PROPOSED SIGN	GROUND LIGHT
HANDICAPPED PARKING	SANITARY MANHOLE
UTILITY POLE	WATER METER
AREA LIGHT	FIRE HYDRANT
BOLLARD	EXISTING PINE TREE
TRAFFIC DIRECTION	PROPOSED BUSH
ELECTRIC METER	EXISTING TREE
GAS METER	AIR CONDITIONING UNIT

NOTES

1. FOOTBALL FIELD WILL NOT BE LIGHTED.
 2. GOAL POSTS TO BE REMOVED FROM CURRENT LOCATION AND PLACED ON NEW FIELD.
 3. FIELD ENTRY TO BE CONSTRUCTED IN A SIMILAR STYLE AND MATERIALS AS SCHOOL ENTRY. ENTRY WALL OR SHELTER TO BE PERMITTED SEPARATELY.
 4. CONCRETE RUNNERS TO BE PLACED UNDER THE PORTABLE BLEACHERS TO ENSURE STABILITY, AND EASE IN LEVELING. RUNNERS TO BE CONSTRUCTED SO NOT TO INTERFERE WITH THE NATURAL COURSE OF SURFACE WATER FLOW. THE LENGTH AND INTERVAL MAY VARY DO TO TYPE AND SIZE OF PORTABLE BLEACHERS.
 5. AN UNDOCUMENTED SYSTEM OF UNDER DRAINS EXIST, AND PASS THROUGH THIS AREA, AS INVESTIGATED BY PROBE, EXCAVATION, AND SURFACE EVIDENCE. ANY PROPOSED UNDER DRAINS WILL BE SO PLACED AS TO ENSURE THE UNOBSTRUCTED CONTINUANCE OF THESE EXISTING UNDERGROUND WATERWAYS.
 6. AN OUTDOOR CLASSROOM IS PROPOSED SOUTHEAST AND ADJACENT TO THE FIELD. THE PROPOSED CLASSROOM WILL ALLOW STUDENTS TO HAVE HANDS ON BIOLOGY LESSONS, AS WELL AS THE OPPORTUNITY TO CONSTRUCT AND MAINTAIN A RAINGARDEN, OR BIORETENTION SYSTEM.
 7. PRIOR TO CONSTRUCTION A SLIT FENCE WILL BE PLACED ALONG THE EAST AND SOUTHEAST PROPERTY LINE, SAID FENCE WILL BE MAINTAINED UNTIL GROUND COVER IS ESTABLISHED. THE CITY OF FRANKLIN RETAINS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
- BENCHMARK -
- TBM 1 - ELEVATION = 742.55
TOP OF CASTING OF A CATCH BASIN LOCATED AT THE SOUTHEAST CORNER OF THE SUBJECT PROPERTY.
- TBM 2 - ELEVATION = 742.58
REBAR FOUND LOCATED 30 FEET SOUTH AND 45 FEET WEST OF THE SOUTHWEST CORNER OF THE PROPOSED FOOTBALL FIELD.



Pt. E $\frac{1}{2}$ SW $\frac{1}{4}$ S15-T12N-R4E

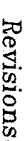
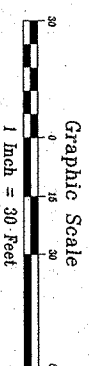


ON MOST FOOTBALL FIELDS (SUCH AS THE PROPOSED SAINT ROSE FIELD) RELY ON NATURAL GRASS, THE COVER FOR THE PLAYING SURFACE, THE PORTULYAK OF NATURE, GRASS COMPARED TO SURFACES IS EASY TO UNDERSTAND: ANOTHER NATURE, COOLER, PLANNED AND AESTHETIC. GRASS IS A PLANT AND, AS SUCH, IT CAN BE MAINTAINED AND MANAGED. BUT THE PROBLEM WITH GRASS IS THAT IT DOESN'T GROW IN ALL CLIMATES. IN COLDER CLIMATES, SUCH AS IN THE NORTH, PLANTING AND GOOD MANAGEMENT PRACTICES WILL PERFORM WELL. MOST COMMON OF GRASS USED FOR FOOTBALL FIELDS IN COLDER ZONES: KENTUCKY BLUEGRASS, FESCUE AND PERCGRASS, AND IN THE WARMER CLIMATES, BERMUDA- AND ZOYSIA GRASS.

SOME THAT BEHAVE AS WELL WITH THE CEMENTATION OF THE SOIL. THE DRAINAGE OF THE BEST TYPE OF SCOTCHMAN IS THAT DRAINAGE, WHICH HOLDS ENOUGH FOR THE TO GROW PROPERLY. MINERAL SOILS CONTAINING MOSTLY SILT AND SAND, JUST A FRACTION OF CLAY, ARE THE BEST. SOIL OF THESE MATERIALS THAT DRAINS 5-10 INCHES OF WATER PER HOUR WORKS WELL. ADDING A CERAMIC CONDITIONER TO SOILS CAN IMPROVE THE POROSITY. THIS RESULTING IN A BETTER ROOTZONE. ORGANIC MATTER (E.G. PLANT MATERIAL) IS A NUTRIENT SOURCE WITH CHARGED SURFACES TO WHICH NUTRIENTS BIND. THEREFORE, A MIXTURE OF BOTH CLAY AND ORGANIC MATERIAL, WITHIN A SCOTCHMAN IS DESIRABLE, BUT TOO MUCH OF EITHER OF THESE CAN LEAD TO PROBLEMS FOR BOTH GRASS GROWTH AND DRAINAGE.

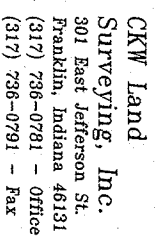
THE DIMENSIONS OF A REGULATION SCHOOL FOOTBALL FIELD ARE ESSENTIALLY THE SAME AS A PROFESSIONAL FIELD WITH THE EXCEPTION OF THE FLAG MARKS AND GOAL POSTS. SCHOOL FOOTBALL FIELD DIMENSIONS ARE AS 300 FEET (LENGTH) BY 160 FEET (WIDTH), WITH OUR FIELD RUNNING NORTH TO SOUTH. A RESTRAINING LINE IS A LINE ALONG THE SIDE LINES THAT DESIGNATES THE CLOSEST LINE PLAYERS CAN BE TO THE FIELD. IN SOME COUNTRIES, A SMALL SECTION OF CHAIN LINK FENCE IS PLACED BETWEEN THIS LINE AND THE SPECTATORS, OR GRASSY STANDS, NO FENCING, PAVED STANDS, TETRA BOXES, OR PAVED COACH BOXES ARE PLANNED.

NOTE



REVISIONS PER CITY: CAP 6-8-12

JEFFREY J HONDY PROFESSIONAL LAND
SURVEYOR NO. 20100068



Project

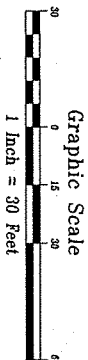
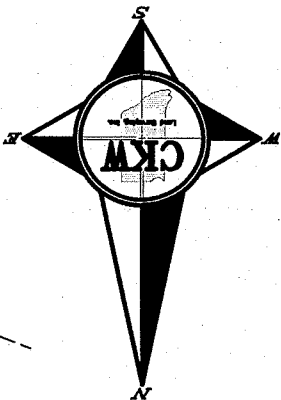
Athletic Field
Franklin, Indiana

Field	Title
Detail	

Scale 1" = 30'	Drawn CAP	Designed N/A	Checked JKK
Work Order No. 120011		Sheet Number 4	Of 11
Date: April 25, 2012			

NOTES

1. ALL SLOPES TO BE NO GREATER THAN 4/1.
2. ALL DISTURBED SOILS TO BE SEEDED AND/OR MULCHED
3. 100 YEAR ELEVATION FOR RAINGARDEN IS 740.75.

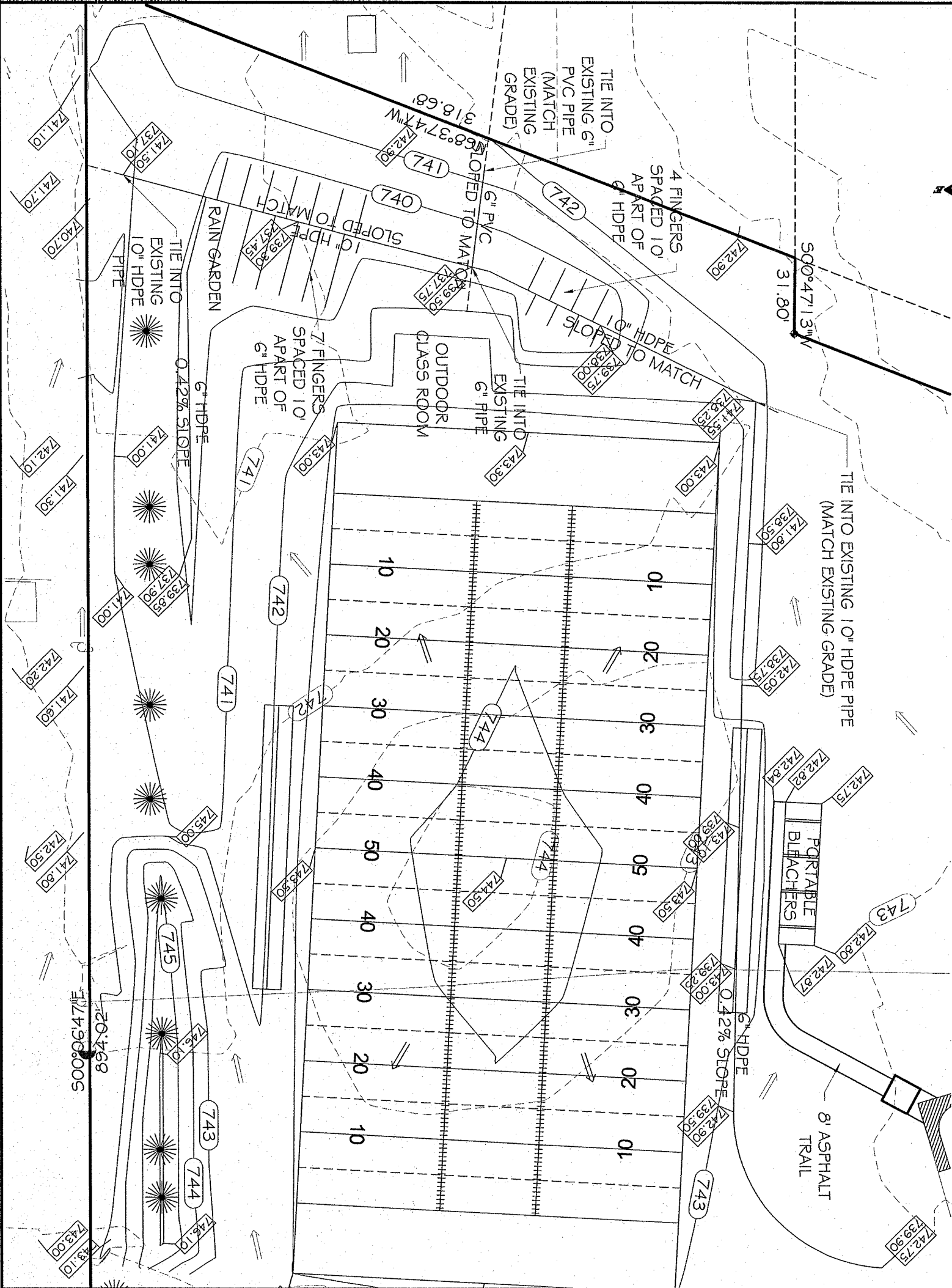


Field Drainage Detail

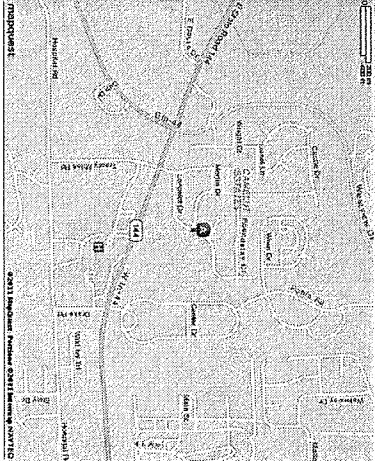
Pt. E ½ SW ¼ S15-T12N-R4E

SYMBOL LEGEND

PROPOSED SIGN	GROUND LIGHT
HANDICAPPED PARKING	SANITARY MANHOLE
UTILITY POLE	WATER METER
AREA LIGHT	FIRE HYDRANT
BOLLARD	EXISTING PINE TREE
TRAFFIC DIRECTION	PROPOSED BUSH
ELECTRIC METER	EXISTING TREE
GAS METER	AIR CONDITIONING UNIT

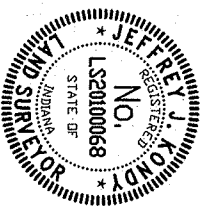


Site Map



Revisions

REVISIONS PER CITY CAP 6-8-12



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Prepared For:

Saint Rose of Lima
114 Lanelet
Franklin, Indiana 46131

Project

Athletic Field
Franklin, Indiana

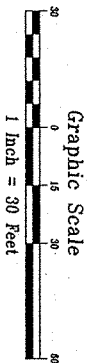
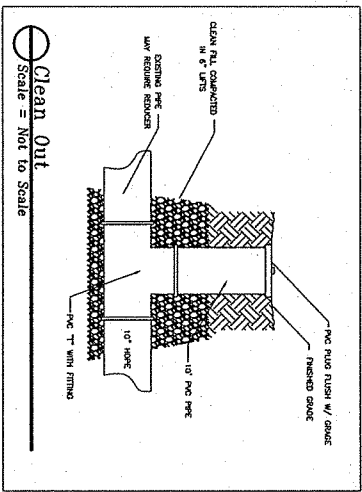
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Field Drainage Detail

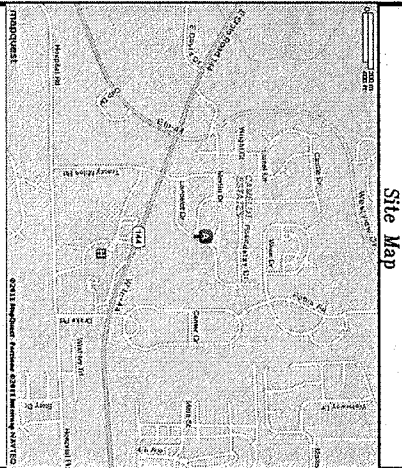
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Work Order No. 120011	Sheet Number 5	Of 11	
Date: April 25, 2012			

Field Drainage Detail

Pt. E ½ SW ¼ S15-T12N-R4E



SYMBOL LEGEND	
PROPOSED SIGN	GROUND LIGHT
HANDICAPPED PARKING	SANITARY MANHOLE
UTILITY POLE	WATER METER
AREA LIGHT	FIRE HYDRANT
BOLLARD	EXISTING FINE TREE
TRAFFIC DIRECTION	PROPOSED BUSH
ELECTRIC METER	EXISTING TREE
GAS METER	AIR CONDITIONING UNIT



NOTES

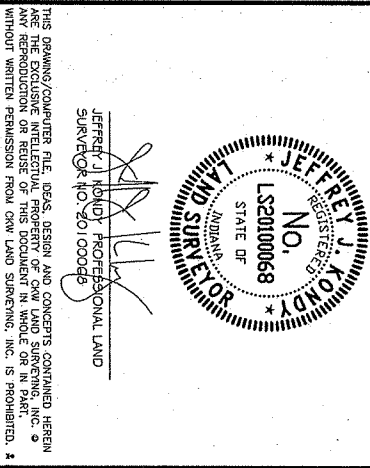
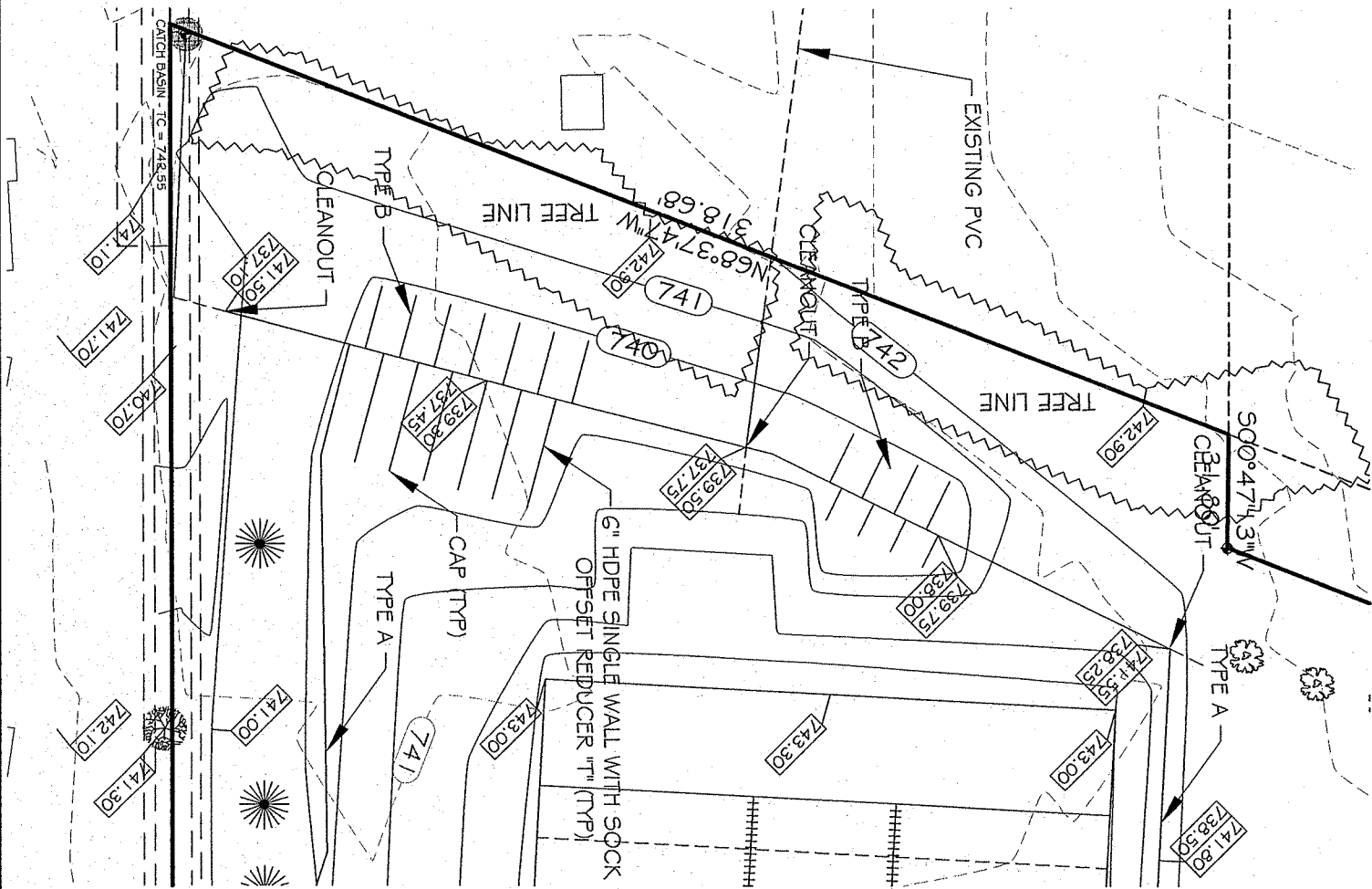
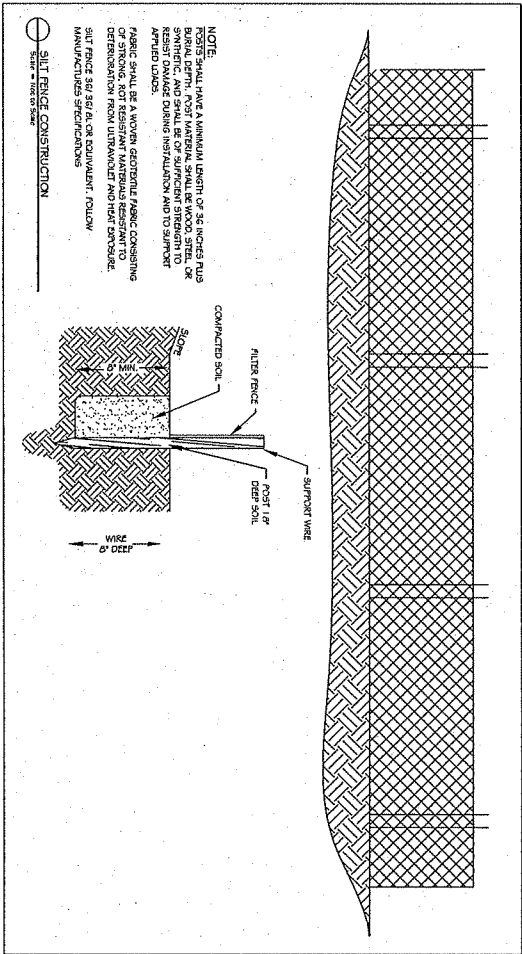
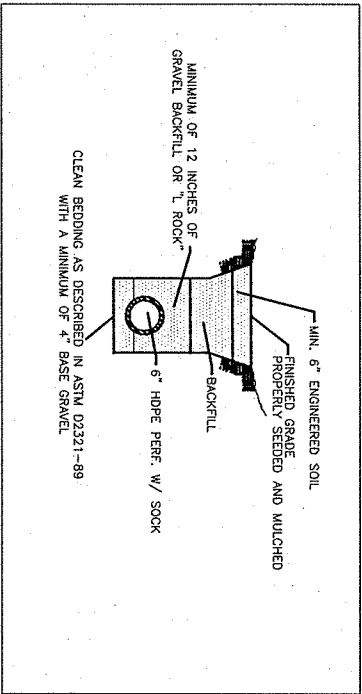
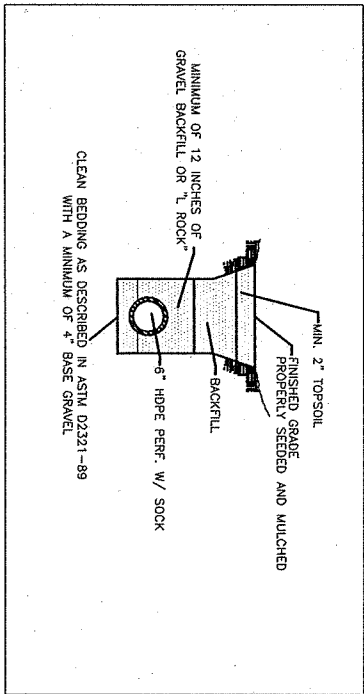
SOME STOCK-PILING OF SOIL IS ANTICIPATED. SOME OF THE SOIL, VEGETATED SOIL, OR YARD MAY BE MOVED AND MODIFIED DURING CONSTRUCTION. ANY SOIL NOT RE-USED IN THE FIELD WILL BE USED WITH THE BUILDING OF THE RANGEGARDEN, OR BERM. ALL DISTURBED AREAS TO BE SEEDED & MULCHED.

ALL PIPE TO BE SINGLE WALL HDPE TYPE.

UNDER DRAIN WITHIN POND TO BE 6" HDPE SINGLE WALL PERF. W/ SOCK AND IN GRAVEL. 6" PERFORATED TO BE CAPPED AT END CONNECTED TO 10" HDPE BY REDUCER TS, OFFSET. CLEAN-OUT TO BE CONSTRUCTED WITH PVC PIPE, PLUGGED AT TOP. EXISTING AND PROPOSED CONNECTIONS TO BE MADE WITH PVC TS. DIMENSIONS AND CONNECTIONS MAY VARY WITH CONNECTION LOCATION.

ALL EXISTING UNDER DRAINS, AND TILES TO BE CONTINUED.

APPROXIMATE 950 LN FT OF 6" SINGLE WALL HDPE PERFORATED PIPE WITH SOCK APPROXIMATELY 285 LN FT OF 10" SINGLE WALL SOLID HDPE PIPE APPROXIMATELY 22. 6" CAPS APPROXIMATELY 21 REDUCER TS (10 - 6) APPROXIMATELY 3. PVC CLEANOUTS



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Franklin, Indiana 46131

Project
Athletic Field
Franklin, Indiana

Sheet Title
Field Drainage Detail

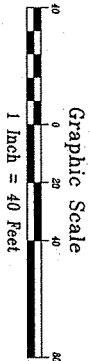
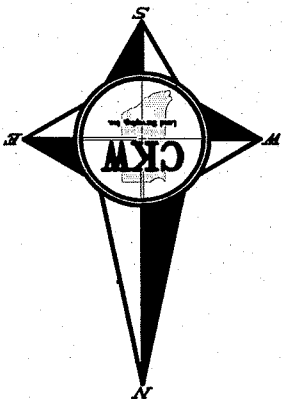
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Date: April 25, 2012	of 11		

NOTES

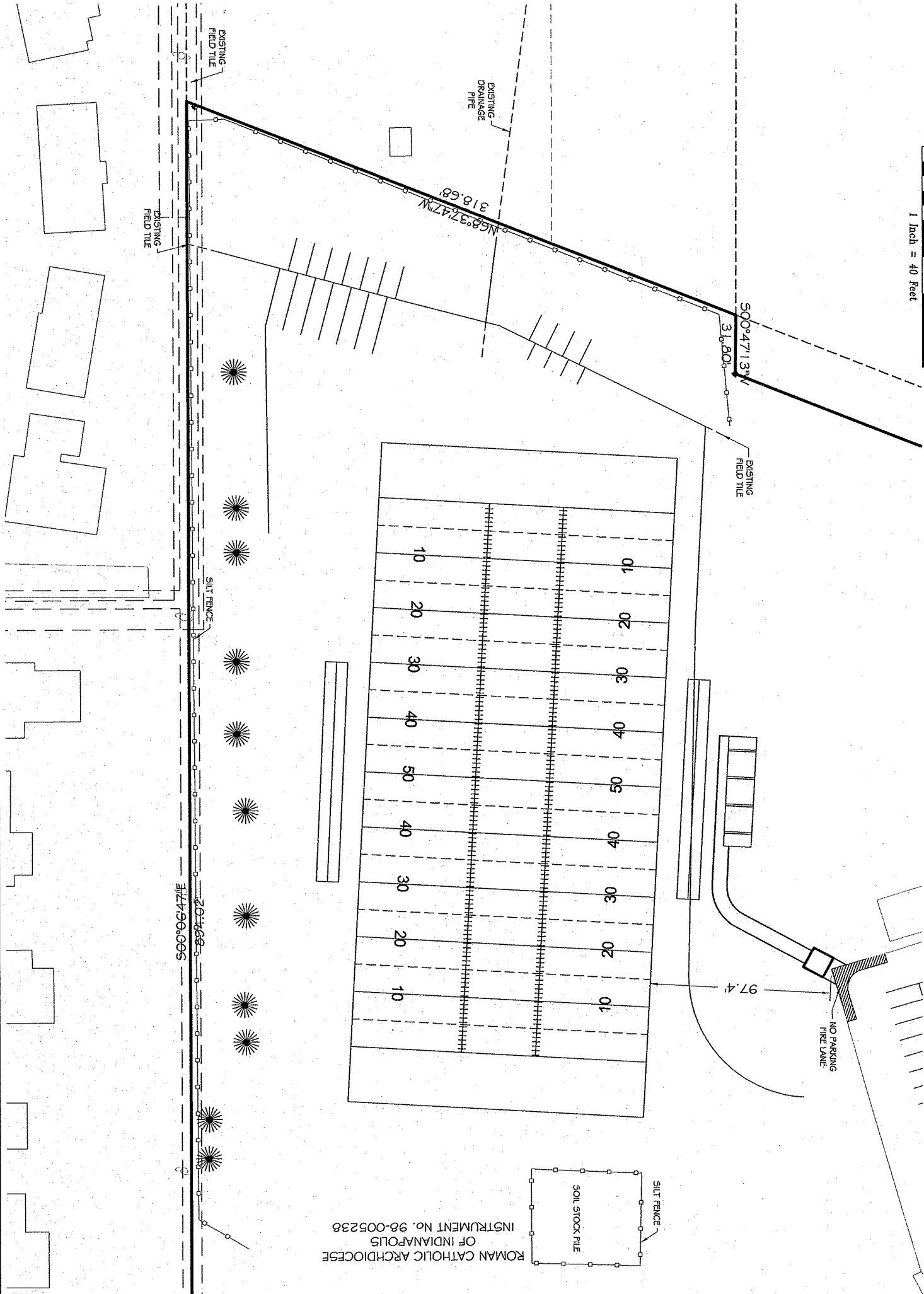
1. ALL SLOPES TO BE NO GREATER THAN 4/1.
2. ALL DISTURBED SOILS TO BE SEEDED AND MULCHED.
3. THE CITY OF FRANKLIN RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
4. SEE SHEET 6 FOR SILT FENCE DETAIL. TOTAL OF SILT FENCE IS 1250 LINEAR FEET

Erosion Control Detail

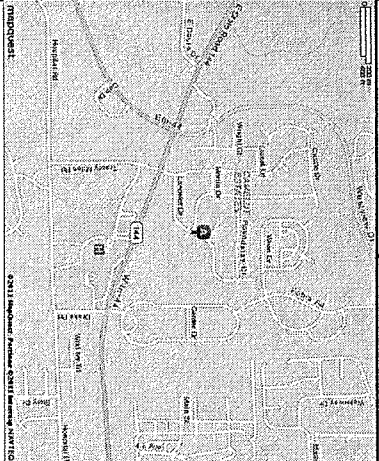
Pt. E ½ SW ¼ S15-T12N-R4E



SYMBOL LEGEND	
	PROPOSED SIGN
	HANDICAPPED PARKING
	UTILITY POLE
	AREA LIGHT
	BOLLARD
	TRAFFIC DIRECTION
	ELECTRIC METER
	GAS METER
	GROUND LIGHT
	SANITARY MANHOLE
	WATER METER
	FIRE HYDRANT
	EXISTING PINE TREE
	PROPOSED BUSH
	EXISTING TREE
	AIR CONDITIONING UNIT

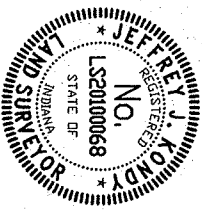


ROMAN CATHOLIC ARCHDIOCESE
OF INDIANAPOLIS
INSTRUMENT NO. 98-005238



Revisions

REVISIONS PER CITY CAP 6-8-12



JEFFREY J. KORDY
REGISTERED PROFESSIONAL LAND
SURVEYOR
STATE OF INDIANA
LICENSE NO. 20100068



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Surveying, Inc.
301 East Jefferson St.
Franklin, Indiana 46131
(317) 736-0781 - Office
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Prepared For:

Saint Rose of Lima
114 Lancelot
Franklin, Indiana 46131

Project

Athletic Field
Franklin, Indiana

Sheet Title

Erosion Control

Scale
1" = 40'

Drawn
CAP

Designed
N/A

Checked
JJK

Work Order No.
120011

Sheet
Number

Date:
April 25, 2012

7
of 11

LOCATED ON THE SOUTH SIDE OF THE PROPOSED FOOTBALL FIELD, JUST NORTHWEST AND ADJACENT TO THE UNITED METHODIST COMMUNITY, THIS RANGEROEN, WHEN FULLY DEVELOPED, WOULD BE APPROXIMATELY 1/2,000 SQ. FT. AND IS LOCATED ENTIRELY WITHIN THE 740 CONTOUR (6,000 SQ. FT.). BECAUSE THE RANGEROEN IS A TEACHING TOOL, OR LIVING LAB, IT CAN ASSUME THE DEVELOPMENT WILL TAKE PLACE OVER A PERIOD OF TIME, ALL OTHER ELEMENTS SUCH AS GRASSING, UNCONSTRUCTION, AND SOIL AMENDMENT WILL BE COMPLETE, AND IN PLACE WITH THE CONSTRUCTION OF THE FOOTBALL FIELD. THE UNDERLYING SOILS HERE CONSIST OF A BROOKSTON SILTY CLAY LOAM, AND IS CROSSY BECAUSE THIS AREA IS POST DEVELOPED THE SURFACE OR TOP SOIL IS A MORE COARSE MIXTURE, AND HAS BEEN A GRASSY FIELD FOR AT LEAST THE LAST 50 YEARS. THIS BASE SOIL IS CLASSIFIED AS A WET SOIL, WITH MODERATE PERMEABILITY AND GOOD ORGANIC CONTENT. BECAUSE OF ITS BASE SOIL MAKE-UP IT IS RECOMMENDED THAT THE RANGEROEN BED CONSIST OF NO LESS THAN 6 INCHES OF ENGINEERED SOIL. AS IN ALL NEW PLANTING BEDS A MODIFIED PERLITIZATION STRATEGY IS RECOMMENDED.

LANDSCAPE GRASS TYPES

RIVERBANK TUSSOCK (CAREX-EMORY)

SWEET BLACK-EYED SUSAN (*RUDEBECKIA - SUBTROPICA*)
SWEET BLACK-EYED SUSAN, OR SWEET CONIFLOWER, RECEIVES ITS COMMON NAME FROM THE FLOWERS' SWEET ANISE SCENT. SWEET CONIFLOWER HAS NUMEROUS 3 INCH FLOWERS CONSISTING OF YELLOW PETALS AROUND DEEP-SHED CENTRAL DISCS THAT PROVIDE NECTAR FOR BUTTERFLIES AND DEER FOR GOLDCHICKENS. THIS LARGE ATTRACTIVE PLANT LOOKS EXCELLENT IN THE MIDDLE OR BACK BORDER OF A BUTTERFLY GARDEN WITH SCHIMMAGE, PURPLE CONIFLOWER, VERONICA/CISTRUM (VALERIAN ROOT), AND PENSTEMON (FOXGLOVE BEASTGONGULI). *RUDECKIA SUBTROPICA* IS A VERY ATTRACTIVE LARGE BACK-EYED SUSAN. THIS NATIVE WILDFLOWER CAN BE PLANTED IN SUN TO PARTIAL SHADE IN NATIVE WILDFLOWER GARDENS, MEADOWS, AND IN FORMAL FLOWERS. SWEET BLACK-EYED SUSAN IS A LONG LIVED PERENNIAL. NATIVE *RUDECKIA SUBTROPICA* SEED GERMINATION IS STRATIFICATION AFTER A PRETREATMENT OF 3 TO 6 WEEKS OF COOL, MOIST STRATIFICATION OR WHEN PLANTED OUTSIDE IN THE FALL OR WINTER. THIS SWEETLY SCENTED FLOWER OCCURS NATURALLY IN LOW MEADOWS, OPEN SLOPES, STREAM BANKS, AND THAIRS FROM INDIANA, WISCONSIN, IOWA, AND KANSAS, SOUTH TO LOUISIANA AND TEXAS. *ASTRACIA* (ASTER FAMILY)

BLUE FLAG HAS ALSO BEEN KNOWN AS THE LIVER LILY, BECAUSE ITS DRIED AND POUNDED RHIZOMES WERE TRADITIONALLY BELIEVED TO BE AN EXCELLENT REMEDY FOR IMPAIRMENTS OF THE BLOOD AND DISORDERS OF THE LIVER. ITS MANY OTHER USES IN FOLK MEDICINE INCLUDED THE TREATMENT OF SKIN DISEASES, RHEUMATISM, AND EYES. NO ONE, HOWEVER, PRIZED BLUE FLAG MORE THAN AMERICAN INDIANS. SOME OF THEM USED THE ROOTS OF THE PLANT AS A PAIN KILLER FOR TRENNING SORES AND CERTAIN TRIBES ARE SAID TO HAVE PLANTED BLUE FLAG NEAR THEIR VILLAGES TO ENSURE A CONVENIENT SUPPLY.

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DAIYLES ARE LANTS. THE NAME HEMEROCALLIS COMES FROM THE GREEK (HEMEROS, "DAY" AND KALLIS, "KALLOS" BEAUTIFUL). THE FLOWERS OF MOST SPECIES OPEN AT SUNRISE AND WITHER AT SUNSET. POSSIBLY REPLACED BY ANOTHER ONE ON THE SAME STEAD THE NEXT DAY. SOME SPECIES ARE NIGHT-BLOOMING. THERE ARE OVER 60,000 REGISTERED. ONLY A FEW CULTIVARS ARE SCENTED. SCENTED CULTIVARS (INTERIOR) ARE APPEARING MORE FREQUENTLY IN NORTHERN HEDERIZATION HOWEVER. SOME CULTIVARS REBLOOM LATER IN THE SEASON. PARTICULARLY IF THEIR DEVELOPING SEEDPODS ARE REMOVED. DAIYLES OCCUR AS A CLUMP INCLUDING LEAVES, THE CROWN, AND THE ROOTS. THE LONG, ORBITAL LEAF, ARE GROUPED INTO FLAT PANS WITH LEAVES ARCHING OUT TO BOTH SIDES. THE CROWN OF A DAIYLE IS THE SMALL WHITE PORTION BETWEEN THE LEAVES AND THE STALKS. THE STALKS ARE OF VARIOUS HEIGHTS, AND THE SEEDPODS ARE OF VARIOUS SHAPES. THE SEEDPODS ARE OF VARIOUS SHAPES, AND THE SEEDPODS ARE OF VARIOUS SHAPES. ON THE FACT OF THE PLANT. SOME DAIYLES SHOW ELONGATED WINDINGS ALONG THE ROOTS, MADE BY THE PLANT MOSTLY FOR WATER STORAGE AND AN INDICATION OF GOOD HEALTH. THE FLOWER CONSISTS OF THREE, AND THREE, COLLECTIVELY CALLED. EACH WITH A IN THE SAME OR IN A CONTRASTING COLOR. A CLUMP CAN RANGE FROM A FEW INCHES TO 3 FEET IN HEIGHT, DEPENDING ON VARIETY. THE CENTRIMOST SECTION OF THE FLOWER, CALLED THE THROAT, HAS USUALLY A DIFFERENT AND CONTRASTING COLOR. THERE ARE SIX GOMETS (SEVEN). EACH WITH A TWO-LOBED. AFTER. THE FLOWER FORMS A POD. NAMED VARIETIES SUCH AS HEMEROCALLIS FLAVA ARE SOMETIMES PLANTED DUE TO THEIR EASE OF GROWTH AND THE FACT THAT THEY PRODUCE A FLOWER, AND SOIL RETENTION QUALITIES.

PROPOSED AND RECOMMENDED TREE TYPES

PINE, FIR, AND SPRUCE TREES CAN BE CLASSIFIED AS EVERGREEN TREES, AND HAVE MORE THAN JUST LANDSCAPE, OR SCREENING BENEFITS. A TWO INCH DIAMETER TREE CAN DIVERT UP TO 205 GALLONS OF STORM WATER ANNUALLY, WHILE REDUCING ATMOSPHERIC CARBON BY 9 POUNDS.

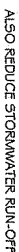
CREATE AN EXCELLENT WINTER SILHOUETTE

RED BUD (CERCIS CANADENSIS), RED OAK (QUERCUS RUBRA)

DRAINAGE

NO STATE OR FEDERAL WATER QUALITY PERMITS ARE ANTICIPATED. PLANS ARE SUBJECT TO REVIEW BY THE JOHNSON COUNTY SOIL AND WATER CONSERVATION DISTRICT (CITY OFFRANKLIN M54).

APPLICATION

[illegible]

Revisions		
REVISIONS PER CITY	CAP	6-8-12

Sheet Title
Rain Garden Plan

Scale 1" = 10'	Drawn CAP	Designed N/A	Checked JJK
Work Order No. 120011		Sheet Number	

Date: April 25, 2012

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JEFFREY J. HONDY PROFESSIONAL LAND
SURVEYOR NO. 20100068

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CKW
LAND SURVEYING, INC.

**CKW Land
Surveying, Inc.**
301 East Jefferson St.
Franklin, Indiana 46131
(317) 736-0781 - Office
(317) 736-0791 - Fax

Prepared For:
Saint Rose of Lima
114 Lancelot
Franklin, Indiana 46131

Project

Sheet Title
Rain Garden Plan

Rain Gardens

Pl. E ½ SW ¼ S15-T12N-R4E

RAINGARDENS, AND BIORETENTION

A RAINGARDEN IS A SHALLOW DEPRESSION IN YOUR YARD THAT IS PLANTED WITH NATIVE PLANTS AND OTHER SPECIES THAT ARE AVAILABLE TO GROW IN THE LOCAL CLIMATE. RAINGARDENS ARE DESIGNED TO PROVIDE A NUMBER OF BENEFITS, INCLUDING: IMPROVED WATER QUALITY, REDUCED FLOODING, AND INCREASED BIODIVERSITY. RAINGARDENS ARE A SIMPLE AND EFFECTIVE WAY TO IMPROVE YOUR LANDSCAPE AND PROTECT THE ENVIRONMENT. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE.

BELOW THE SURFACE OF THE GARDEN, A NUMBER OF PROCESSES ARE OCCURRING WHICH IMPROVE THE HYDROLOGIC ACTION OF A HEALTHY FOREST. SOILS ARE ENGINEERED AND APPROPRIATE PLANTS SELECTED FOR THE RAINGARDEN. THE GARDEN IS A SMALL BIORETENTION CELL IN WHICH STORMWATER IS CLEANED AND REDUCED IN VOLUME. ONCE IT ENTERS THE RAINGARDEN, MINOR ROOTS AND PROFOUND ROOTS AND CROWN ROOTS ARE FOUND IN STORMWATER RUNOFF. RAINGARDENS ARE SITED DEEPLY CLOSE TO THE SOURCE OF THE RUNOFF AND SERVE TO SLOW THE STORMWATER, AS IT TRAVELS DOWNHILL, GIVING THE STORMWATER MORE TIME TO INFILTRATE AND LESS OPPORTUNITY TO GAIN MOMENTUM AND RESOLVE FORCE.

ON THE SURFACE, A RAINGARDEN LOOKS LIKE AN ATTRACTIVE GARDEN. IT MAY SUPPORT NATURAL FOR BIRDS AND BUTTERFLIES. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE. RAINGARDENS ARE A GREAT WAY TO REDUCE YOUR CARBON FOOTPRINT AND IMPROVE YOUR LANDSCAPE.

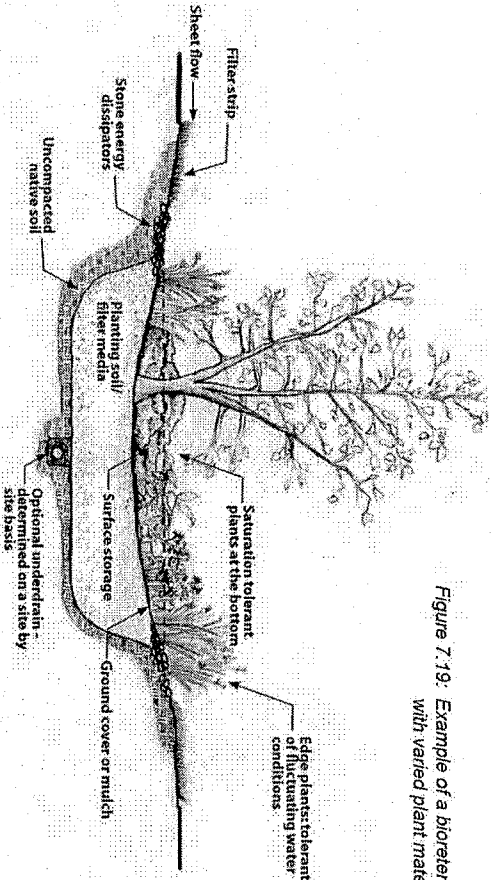
THERE ARE TWO BASIC TYPES OF RAINGARDENS - UNDER-DRAINED AND SELF-CONTAINED. BOTH TYPES OF RAINGARDENS ARE USED TO IMPROVE STORMWATER QUALITY, REDUCE RUNOFF VOLUMES AND GENERALLY FACILITATE INFILTRATION OF CLEANED WATER, WHICH THE GARDEN IS DESIGNED TO BE SUITED TO. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

IN SOME CASES WHERE INFILTRATION IS NOT DESIRED, THE UNDER-DRAINED SYSTEM CAN MOVE EXCESS WATER INTO A CONVENTIONAL STORM SEWER PIPE SYSTEM. CASES WHERE INFILTRATION WOULD NOT BE DESIRABLE WOULD BE IF THE BOTTOM OF THE GARDEN HAS LESS THAN 4" OF CLEARANCE TO THE SEASONAL MEAN HIGH WATER TABLE OR IF THE ADJACENT SOILS ARE CONTAMINATED BY THE CLEANED WATER FROM THE GARDEN WOULD BECOME RECONTAMINATED BY COMING IN CONTACT WITH THE ADJACENT NATIVE SOILS.

RAINGARDENS ARE DESIGNED TO BE DRAINED WITHIN FOUR HOURS AFTER A 1" RAIN EVENT. RAINGARDENS ARE DESIGNED TO BE DRAINED WITHIN FOUR HOURS AFTER A 1" RAIN EVENT. RAINGARDENS ARE DESIGNED TO BE DRAINED WITHIN FOUR HOURS AFTER A 1" RAIN EVENT. RAINGARDENS ARE DESIGNED TO BE DRAINED WITHIN FOUR HOURS AFTER A 1" RAIN EVENT. RAINGARDENS ARE DESIGNED TO BE DRAINED WITHIN FOUR HOURS AFTER A 1" RAIN EVENT.

IN BOTH THE UNDER-DRAINED AND SELF-CONTAINED RAINGARDENS, THE SUCCESS OF THE GARDEN IS GREATER WHEN YOU START WITH HEALTHY AND SMALLER, RATHER THAN LARGER, PLANTS. SOME PLANTS LISTED ARE SUCCESSFUL IN RAINGARDENS ONLY WHEN THEY ARE INSTALLED SHALLOU AND HAVE A CHANCE TO ADAPT TO THE CONDITIONS OF THE GARDEN.

Figure 7.19: Example of a bioretention system with varied plant materials



EXTREMELY ALTERED AND HEAVILY COMPACTED DURING DEVELOPMENT. COMPACTED SOILS ARE NOT SUITED FOR PLANT GROWTH. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

THE BIGHORN SOIL CAN PROVIDE A MEDIUM SUITABLE FOR PLANT GROWTH. THIS DESIGNED MEDIA ACTS AS A PHYSICAL FILTER BETWEEN THE SURFACE STORAGE AND THE NATIVE SOIL OR SUB-DRAINAGE SYSTEM. IT PROVIDES ADDITIONAL STORAGE AND A PLACE FOR BIOLOGICAL AND CHEMICAL POLYMERIZATION BEFORE THE WATER INFILTRATES INTO THE NATIVE SOIL OR SUB-DRAINAGE SYSTEM. STORAGE AREA IS A FUNCTION OF BOTH SOIL DEPTH AND BIORETENTION SURFACE AREA.

SOIL AMENDMENTS CAN BE A SUBSTANTIAL PORTION OF A RAINGARDEN BUDGET. DEPENDING ON THE TYPE OF SOIL, THE TYPE OF PLANTING, OR GROUNDWATER WITH PERIODS OF FLOODING, THIS MIXTURE WILL CREATE A VERY WELL DRAINED, FAIRLY LOW NUTRIENT MIX FOR A RAINGARDEN.

- 1.5% BY VOLUME DOUBLE SHREDDED HARDWOOD MULCH
 - 50% BY VOLUME WASHED SHARP SAND - ASTM C-33
 - 30% BY VOLUME TOPSOIL
 - 5% BY VOLUME FERTILIZER
- THE VIRGINIA DEPARTMENT OF FORESTRY RECOMMENDS HOMEOWNERS USE:
- 50% SAND, 25% TOPSOIL, AND 25% COMPOST OR LEAF LITTER
- (WWW.DOF.VIRGINIA.GOV)

IT IS IMPORTANT TO NOTE THAT THE SAND USED IN A RAINGARDEN SHOULD ALWAYS BE A COARSE, SHARP SAND. IT SHOULD NEVER BE A COMPACTED BUILDING SAND AND SHOULD NEVER BE A FINE SAND. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

IF INFILTRATION IS LIMITED, OR NOT POSSIBLE, CONSIDER AN UNDER-DRAINED SYSTEM. IN AN UNDER-DRAINED SYSTEM, THE CLEANED WATER INFILTRATES INTO A CONVENTIONAL STORM SEWER PIPE SYSTEM. CASES WHERE INFILTRATION WOULD NOT BE DESIRABLE WOULD BE IF THE BOTTOM OF THE GARDEN HAS LESS THAN 4" OF CLEARANCE TO THE SEASONAL MEAN HIGH WATER TABLE OR IF THE ADJACENT SOILS ARE CONTAMINATED BY THE CLEANED WATER FROM THE GARDEN WOULD BECOME RECONTAMINATED BY COMING IN CONTACT WITH THE ADJACENT NATIVE SOILS.

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CONVENTIONAL STORMWATER POND IN NEW DEVELOPMENT. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

REMOVAL CONSTRUCTION WITHIN URBAN AREAS

IN AREAS WHERE INCREASED DEVELOPMENT OR EXISTING DEVELOPMENT HAS CREATED PROBLEMS, RAINGARDEN REMEDIATION ARE AN IDEAL TOOL TO USE TO MITIGATE THOSE PROBLEMS. THE SMALL AND FLEXIBLE NATURE OF THE RAINGARDEN FACILITY TO REDUCE VOLUMES AND IMPROVE WATER QUALITY BY CAPTURING STORMWATER RUNOFF CLOSE TO ITS SOURCE. IN REMEDIATION SITUATIONS, THERE IS OFTEN NOT A LARGE ENOUGH SURFACE SPACE AVAILABLE TO DO A CONVENTIONAL, EFFICIENT DRAINAGE SOLUTION AND ACHIEVE THE DESIRED WATER VOLUME REDUCTIONS AND WATER QUALITY IMPROVEMENTS. THE RAINGARDEN FACILITY PROVIDES A FLEXIBLE AND EFFECTIVE SOLUTION TO THESE PROBLEMS. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

NEW CONSTRUCTION WITHIN SUBURBAN AREAS

IN AREAS WITH SETBACK SYSTEMS MAY HAVE STORMWATER FEES AND TAXES BASED ON THE VOLUME AND QUALITY OF STORMWATER RUNOFF GENERATED BY THE CONVERSION OF EXISTING LAND USE INTO A MORE DEVELOPED/IMPROVED UPON STATE. RAINGARDENS ARE PART OF A TREATMENT TRAIN APPROACH WHICH CAN MITIGATE THE IMPACT OF CONVERSION OF EXISTING LAND USE INTO A MORE DEVELOPED/IMPROVED UPON STATE. RAINGARDENS ARE PART OF A TREATMENT TRAIN APPROACH WHICH CAN MITIGATE THE IMPACT OF CONVERSION OF EXISTING LAND USE INTO A MORE DEVELOPED/IMPROVED UPON STATE. RAINGARDENS ARE PART OF A TREATMENT TRAIN APPROACH WHICH CAN MITIGATE THE IMPACT OF CONVERSION OF EXISTING LAND USE INTO A MORE DEVELOPED/IMPROVED UPON STATE.

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RAIN GARDEN INSTALLATION

MARK THE UTILITIES BEFORE YOU DIG (1-800-365-5544). PLAN AND DESIGN YOUR RAINGARDEN. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

THE ADDITION OF TREES, ORNAMENTAL GRASSES, HOSTAS, TREES, SHRUBS, ART, AND OTHER FESCUAL ELEMENTS CAN ADD TO THE ENJOYMENT OF YOUR GARDEN. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS. RAINGARDENS ARE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS, AND MUST BE DESIGNED TO BE SUITED TO THE LOCAL CLIMATE AND SOIL CONDITIONS.

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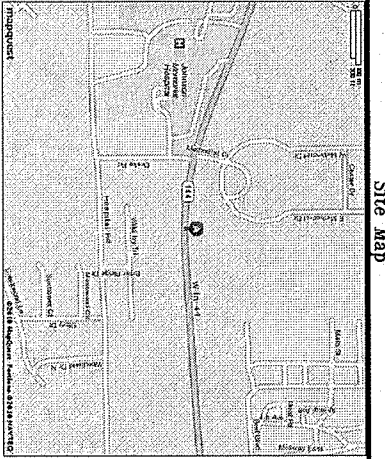
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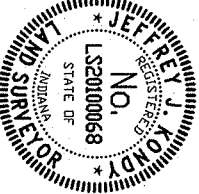
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Revisions



Jeffrey J. Kodyer
Professional Land Surveyor
SURVEYOR NO. 20100068



CKW Land Surveying, Inc.
301 East Jefferson St.
Franklin, Indiana 46131
(317) 736-0781 - Office
(317) 736-0781 - Fax

Prepared For:

Saint Rose of Lima
114 Lancelot
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Project

Athletic Field
Franklin, Indiana

Sheet Title
Rain Garden Details

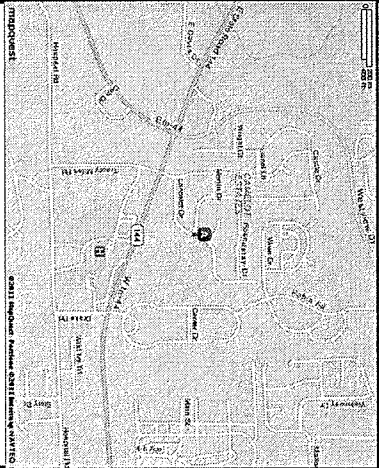
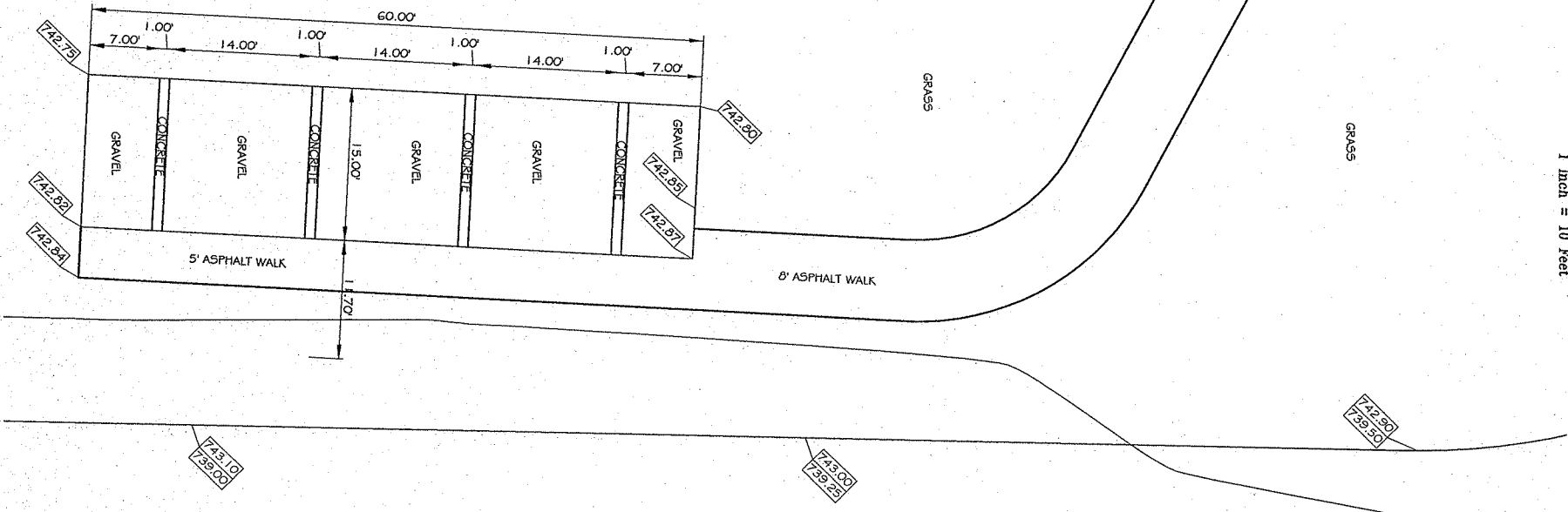
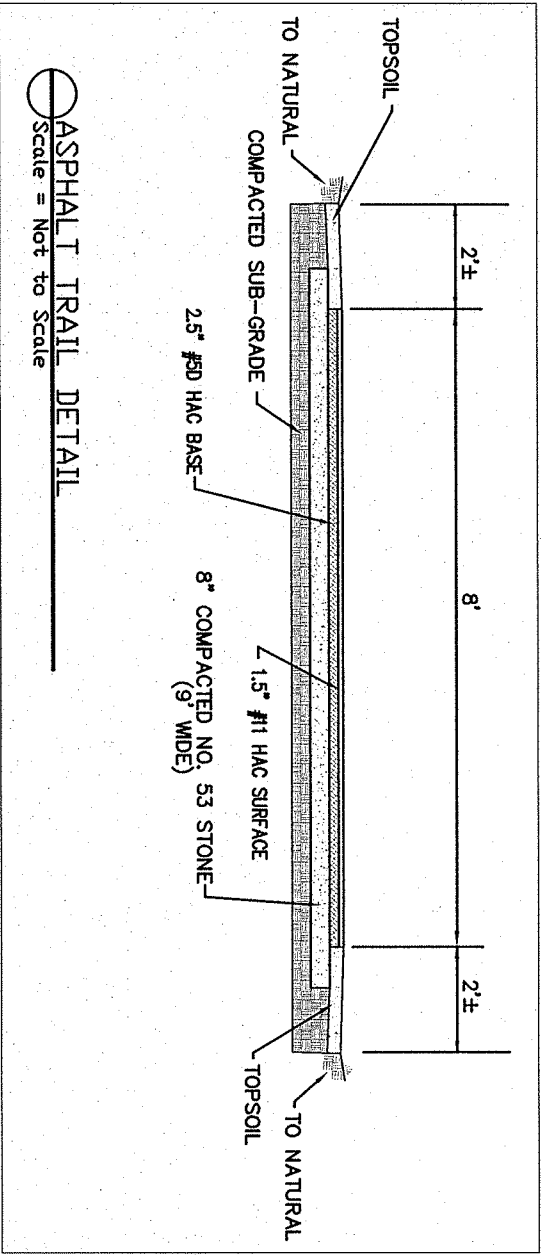
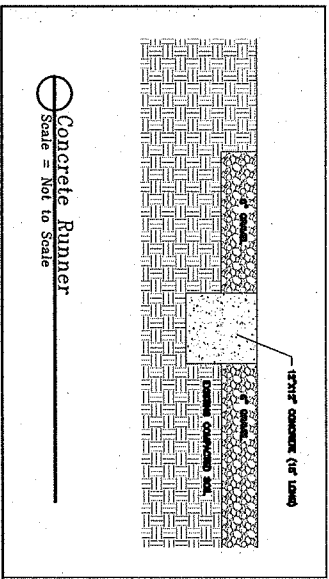
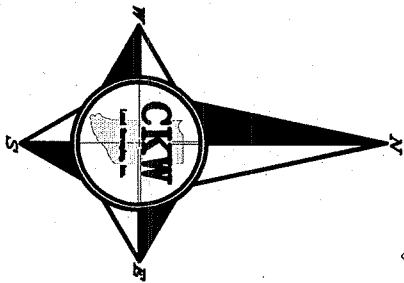
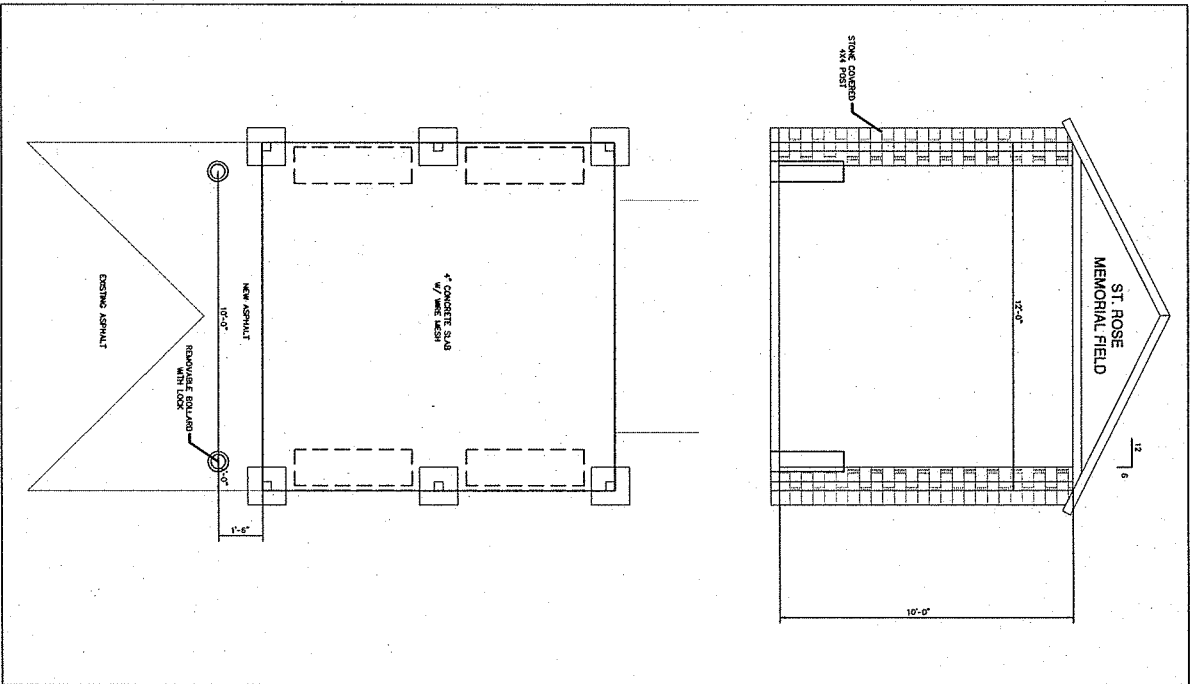
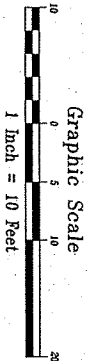
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1" = 10'	CAP	N/A	JJK
Work Order No.	120011	Sheet Number	10

Date:

April 25, 2012

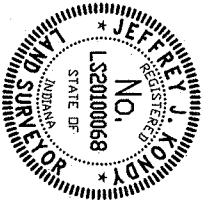
Entry Details

Pt. E ½ SW ¼ S15-T12N-R4E



Revisions

REVISIONS PER CITY CAP 6-8-12



JEFFREY J. KORDY
PROFESSIONAL LAND
SURVEYOR NO. 20100068



CKW Land
Surveying, Inc.
301 East Jefferson St.
Franklin, Indiana 46131
(317) 736-0781 - Office
(317) 736-0791 - Fax

Prepared For:

Saint Rose of Lima
114 Lancelot
Franklin, Indiana 46131

Project

Athletic Field
Franklin, Indiana

Sheet Title

Entry Details

Scale 1" = 10'	Drawn CAP	Designed N/A	Checked JKK
Work Order No. 120011	Sheet Number	11	Of 11
Date: April 25, 2012			