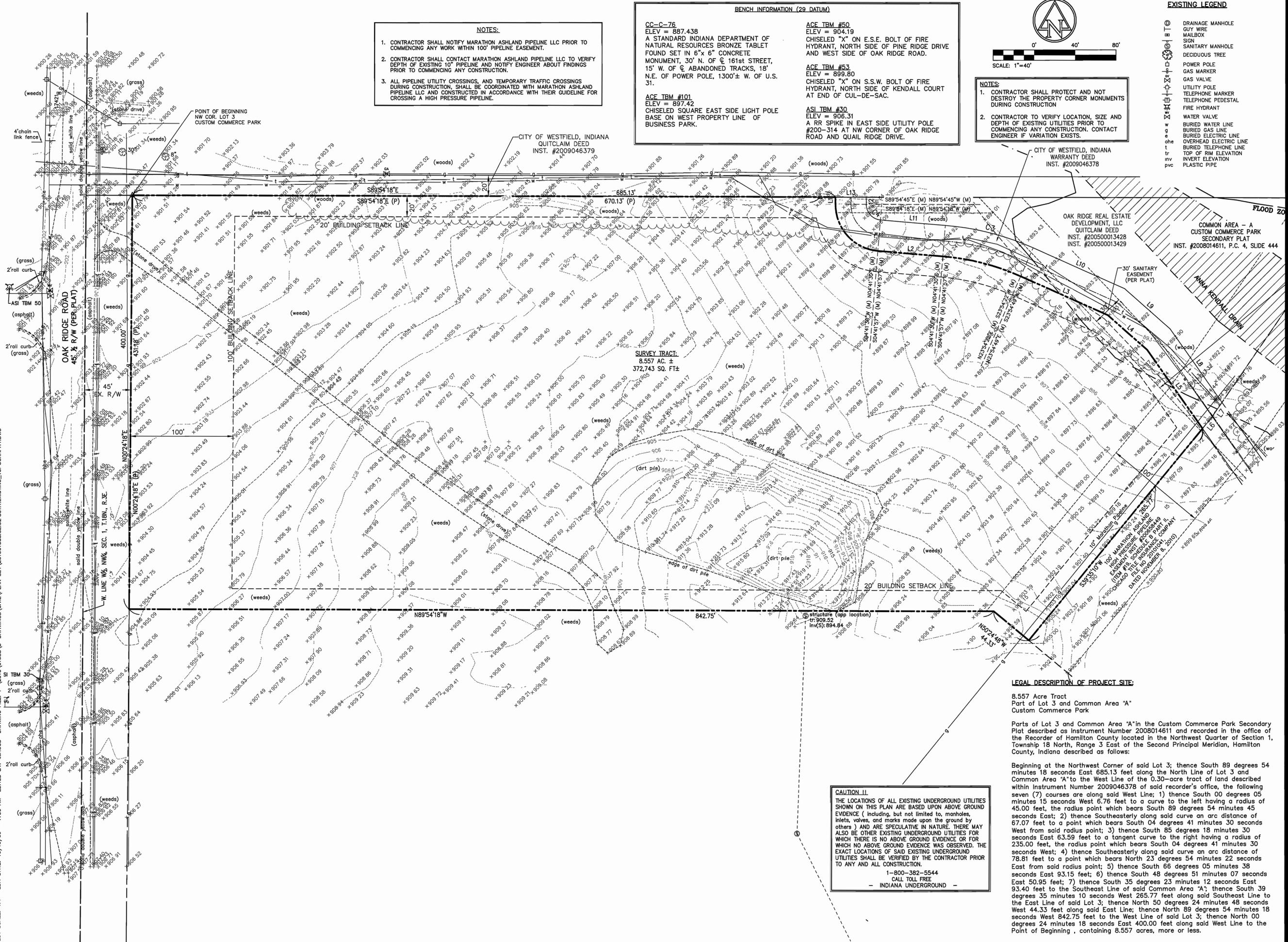


PLOT SCALE: 1:1 EDIT DATE: 10/19/09 - 7:30 AM EDITED BY: JHOOD DRAWING FILE: P:\2010\01088\DRAWINGS\CIVIL\PLAN SET\201001088.CE.02.C01.1.EXISTING_TOPOGRAPHY.DWG



NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

BENCH INFORMATION (29 DATUM)

CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6"x 6" CONCRETE MONUMENT, 30' N. OF Q 161st STREET, 15' W. OF Q ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

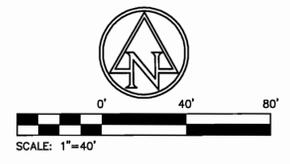
ACE TBM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.

NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION, CONTACT ENGINEER IF VARIATION EXISTS.



- EXISTING LEGEND**
- DRAINAGE MANHOLE
 - GUY WIRE
 - MAILBOX
 - SIGN
 - SANITARY MANHOLE
 - DECIDUOUS TREE
 - POWER POLE
 - GAS MARKER
 - GAS VALVE
 - UTILITY POLE
 - TELEPHONE MARKER
 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - WATER VALVE
 - BURIED WATER LINE
 - BURIED GAS LINE
 - BURIED ELECTRIC LINE
 - OVERHEAD ELECTRIC LINE
 - BURIED TELEPHONE LINE
 - TOP OF RIM ELEVATION
 - INVERT ELEVATION
 - PLASTIC PIPE

7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3857
TEL. 317.547.5588 FAX. 317.547.5589
www.structurepoint.com

STRUCTUREPOINT
INC.

CERTIFIED BY

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE:	02/24/2011
DRAWN BY:	JLH
CHK'D BY:	TMJ
JOB NO.:	201001088
REVISIONS	

SHEET NO.
C1.1
OF

LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
Part of Lot 3 and Common Area "A"
Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2008014611 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

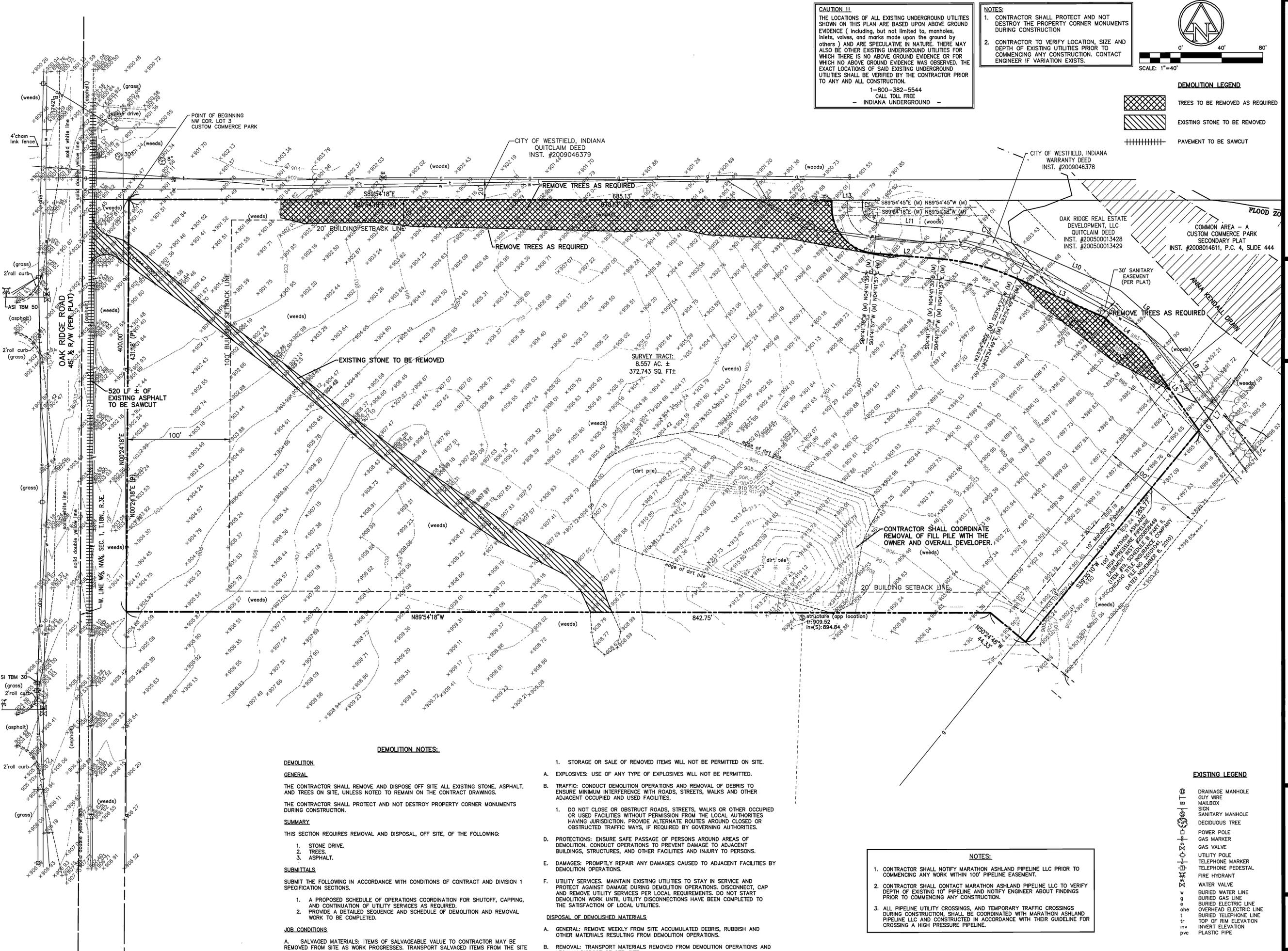
Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) courses are along said West Line; 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeast along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds West from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeast along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence South 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 285.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds West 842.75 feet to the West Line of said Lot 3; thence North 00 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning, containing 8.557 acres, more or less.

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

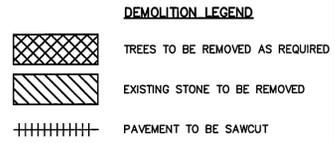
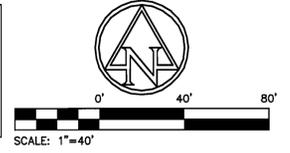
1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

PLOT SCALE: 1:2,584.9 EDIT DATE: 10/16/09 - 7:34 AM EDITED BY: JHHOOD DRAWING FILE: P:\2010\101088\0 DRAWINGS\CIVIL\PLAN SET\20101088.CE.C01 2 DEMOLITION_PLAN.DWG



CAUTION !!
 THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.
 1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -

NOTES:
 1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
 2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.



7890 SHADELAND STATION
 INDIANAPOLIS, IN 46266-9857
 TEL 317 547 5860 FAX 317 543 0270
 www.structurepoint.com

AMERICAN
STRUCTUREPOINT
 INC.

CERTIFIED BY

DEMOLITION PLAN

PREPARED FOR:
AUTOMATIC POOL COVERS
 9001 EAST 133RD PLACE
 FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
 OAK RIDGE ROAD
 WESTFIELD, IN

DATE: 02/24/2011
 DRAWN BY: JHH
 CHK'D BY: TMJ
 JOB NO.: 20101088

REVISIONS	

SHEET NO.
C1.2
 OF

DEMOLITION NOTES:

GENERAL
 THE CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE ALL EXISTING STONE, ASPHALT, AND TREES ON SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
 THE CONTRACTOR SHALL PROTECT AND NOT DESTROY PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.

SUMMARY
 THIS SECTION REQUIRES REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:

- STONE DRIVE.
- TREES.
- ASPHALT.

SUBMITTALS
 SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.

- A PROPOSED SCHEDULE OF OPERATIONS COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- PROVIDE A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.

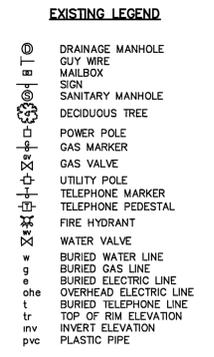
JOB CONDITIONS

A. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.

- STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.
 - EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
 - TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
 - DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
 - PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
 - DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
 - UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES.
- DISPOSAL OF DEMOLISHED MATERIALS**
- A. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
 B. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.

NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.



NOTES:

1. CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
2. CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
3. ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

PROPOSED SITE LEGEND

- (A) 6" EXTRUDED CONCRETE CURB
- (B) 2' CONCRETE CURB & GUTTER
- (C) COMBINED WALK & CURB
- (D) CONCRETE SIDEWALK
- (E) PRECAST CONCRETE PARKING BARRIER
- (F) 4" SOLID WHITE, PAINT LINE
- (G) 24" STOP BAR, WHITE, THERMOPLASTIC
- (H) 4" SOLID BLUE, PAINT LINE (A.D.A. SPACE)
- (I) ADA PARKING SIGN (VAN ACCESSIBLE AS NOTED)
- (J) A.D.A. RAMP (TYPE "K")
- (K) STOP SIGN
- (L) A.D.A. PAVEMENT MARKING
- (M) 6" INTEGRAL CONCRETE CURB
- (N) BOLLARD

CAUTION !!
 THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.
 1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -

0' 40' 80'
 SCALE: 1"=40'

PARKING ANALYSIS	
TOTAL S.F. =	50,557
REQUIRED RATIO =	1 PER 2 EMPLOYEES
TOTAL SPACES REQUIRED =	25
STANDARD PARKING (10x20)	56
SERVICE TRUCK PARKING (11x20)	20
HANDICAP PARKING PROVIDED (11x20) (INCLUDES 4 VAN ACCESSIBLE)	4
TOTAL PROPOSED PARKING	80

7260 SHADELAND STATION
 INDIANAPOLIS, IN 46256-9957
 TEL: 317.547.5500
 WWW.STRUCTUREPOINT.COM

AMERICAN
STRUCTUREPOINT
 INC.

TIMOTHY M. JENSEN
 REGISTERED
 No. 10708270
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 CERTIFIED BY 2/24/11

SITE PLAN

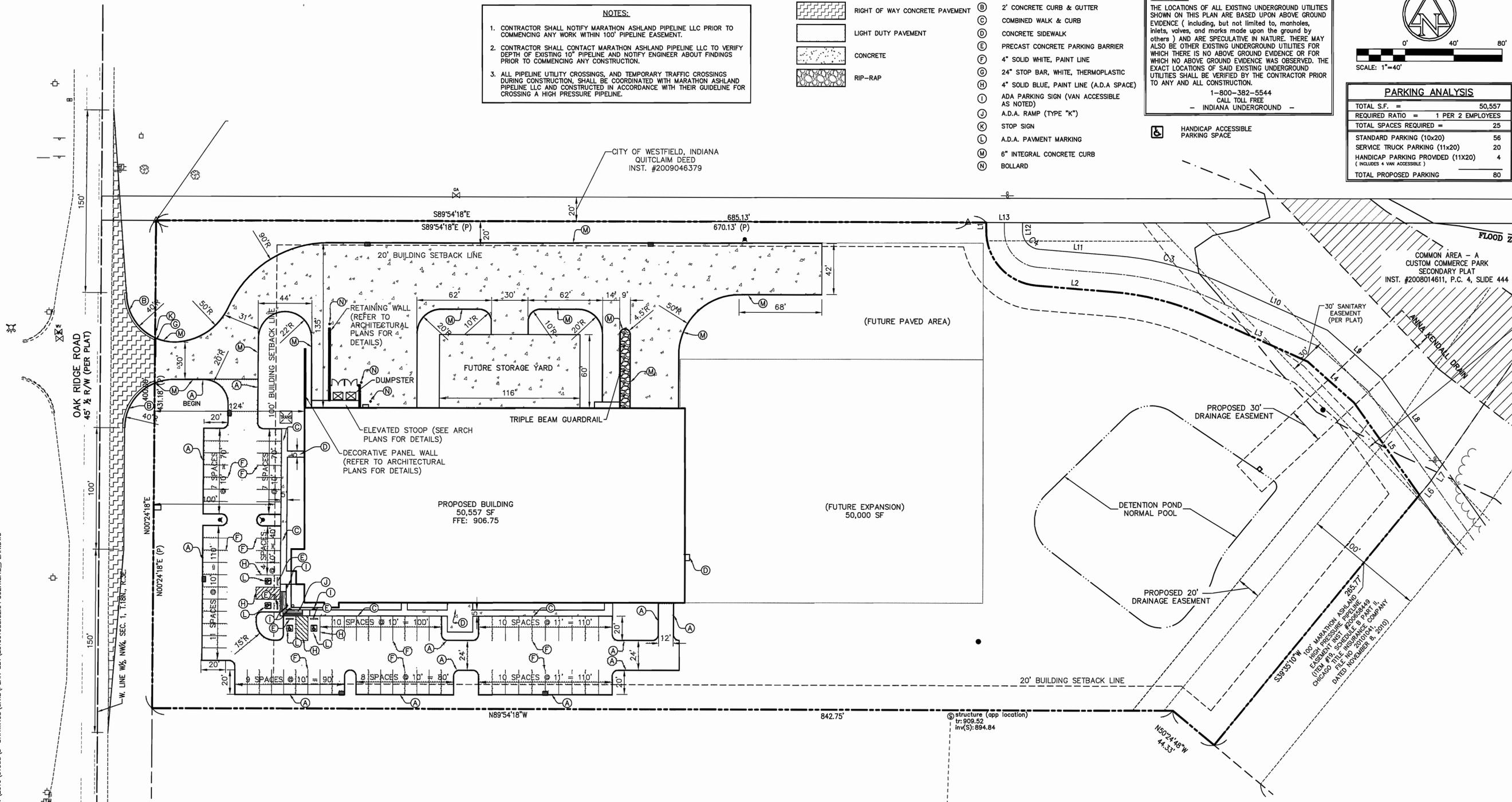
PROJECT: AUTOMATIC POOL COVERS
 OAK RIDGE ROAD
 WESTFIELD, IN

PREPARED FOR: AUTOMATIC POOL COVERS
 9001 EAST 133RD PLACE
 FISHERS, IN 46038

DATE: 02/24/2011
 DRAWN BY: JHM
 CHK'D BY: TMJ
 JOB NO. 201001088

REVISIONS

SHEET NO.
C2.1
 OF



NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
 Part of Lot 3 and Common Area "A"
 Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2008014611 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) courses are along said West Line; 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeasterly along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds West from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeasterly along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence South 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 265.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds West 842.75 feet to the West Line of said Lot 3; thence North 00 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning, containing 8.557 acres, more or less.

- SITE NOTES**
1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 2. ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). HANDICAPPED ACCESS AISLES SHALL BE 4" PAINTED (BLUE).
 3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
 4. ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
 5. ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
 6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 7. PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
 8. ALL EXCAVATED AREAS SHALL BE SEEDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEW SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOP SOIL.
 9. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
 10. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
 11. ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
 12. ALL ASPHALT TO BE IN ACCORDANCE WITH I.N.D.O.T. STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
 13. CHAMFER ENDS OF ALL CURBS.
 14. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
 15. ALL SIDEWALKS SHALL COMPLY WITH A.D.A. STANDARDS, MAX. CROSS SLOPE OF 1:50 & MAX. SLOPE OF 1:20.
 16. EXISTING PAVEMENT TO BE SAWCUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
 17. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

BENCH INFORMATION (29 DATUM)

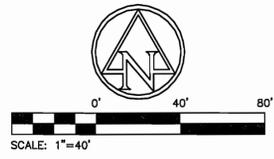
CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6"x 6" CONCRETE MONUMENT, 30' N. OF CL 161st STREET, 15' W. OF CL ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300± W. OF U.S. 31.

ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

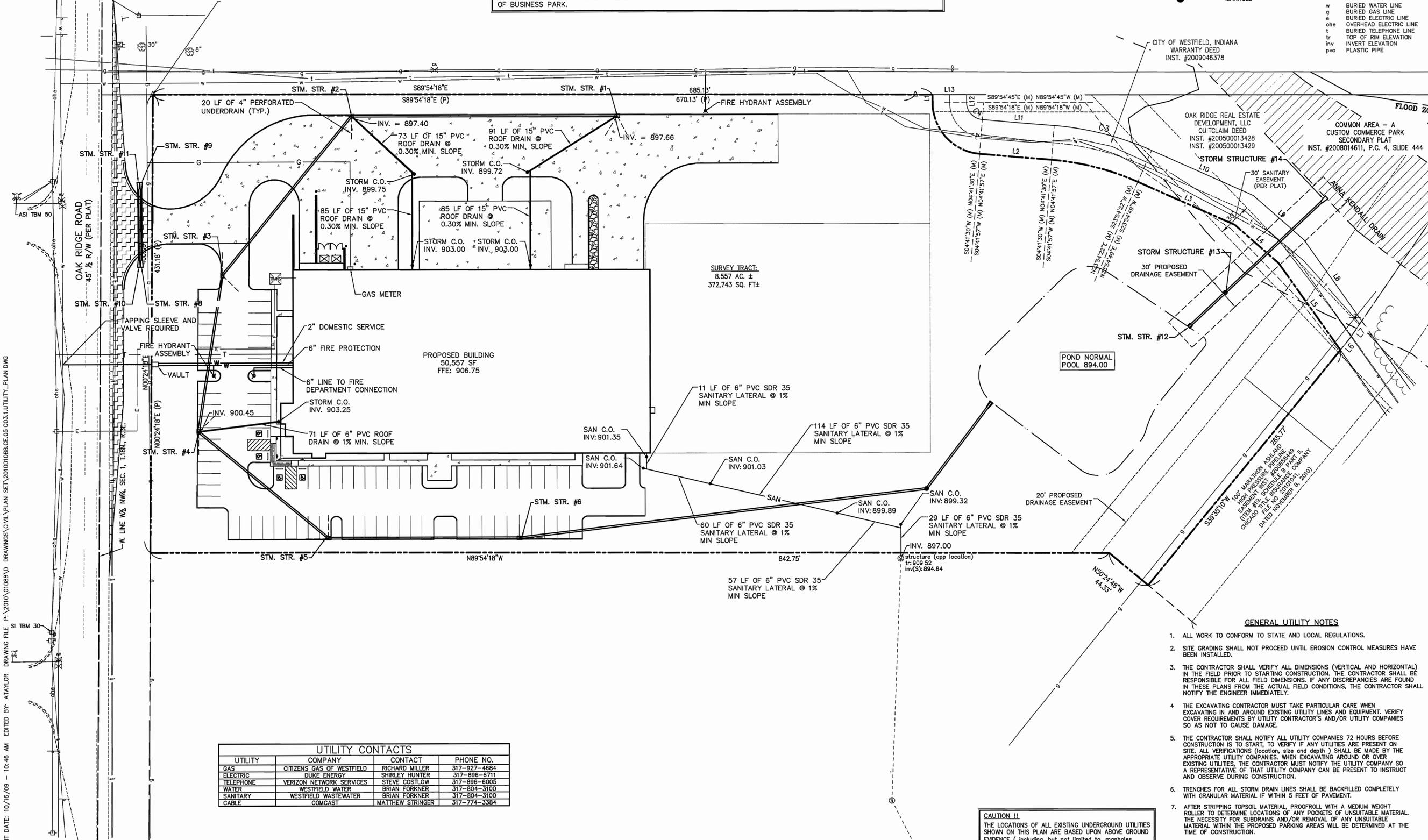
ACE TBM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.



- PROPOSED UTILITY LEGEND**
- San Sewer
 - G GAS LINE
 - E ELECTRIC LINE
 - T TELEPHONE LINE
 - W WATER LINE
 - Gas Meter
 - Electrical Transformer
 - Valve
 - Water Meter Pit
 - Hydrant
 - Manhole
- EXISTING LEGEND**
- Drainage Manhole
 - Guy Wire
 - Mailbox
 - Sign
 - Sanitary Manhole
 - Deciduous Tree
 - Power Pole
 - Gas Marker
 - Gas Valve
 - Utility Pole
 - Telephone Marker
 - Telephone Pedestal
 - Fire Hydrant
 - Water Valve
 - Buried Water Line
 - Buried Gas Line
 - Buried Electric Line
 - Buried Telephone Line
 - Top of Rim Elevation
 - Invert Elevation
 - Plastic Pipe



UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
GAS	CITIZENS GAS OF WESTFIELD	RICHARD MILLER	317-927-4684
ELECTRIC	DUKE ENERGY	SHIRLEY HUNTER	317-896-8711
TELEPHONE	VERIZON NETWORK SERVICES	STEVE COSTLOW	317-896-6005
WATER	WESTFIELD WATER	BRIAN FORKNER	317-804-3100
SANITARY	WESTFIELD WASTEWATER	BRIAN FORKNER	317-804-3100
CABLE	COMCAST	MATTHEW STRINGER	317-774-3384

NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

- GENERAL UTILITY NOTES**
- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 - SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 - THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
 - THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
 - TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
 - AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE THE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
 - PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
 - ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
 - SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
 - ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
 - INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.

7260 SHADELAND STATION
INDIANAPOLIS, IN 46268-3957
TEL 317 547 5580 FAX 317 543 0270
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

TIMOTHY M. HEISEN
REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY 2/27/11

UTILITY PLAN
PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE: 02/24/2011
DRAWN BY:
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS

SHEET NO.
C3.1
OF

PLOT SCALE: 1:2,5849 EDIT DATE: 10/16/09 - 10:46 AM EDITED BY: ATAYLOR DRAWING FILE: P:\2010\01088\DRAWINGS\CIVIL\PLAN SET\201001088.CE.05 C03.1.UTILITY_PLAN.DWG

NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

BENCH INFORMATION (29 DATUM)

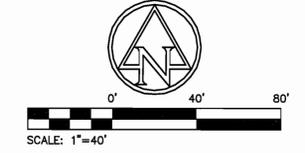
CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6"x 6" CONCRETE MONUMENT, 30' N. OF E. OF 161st STREET, 15' W. OF E. OF ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300± W. OF U.S. 31.

ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

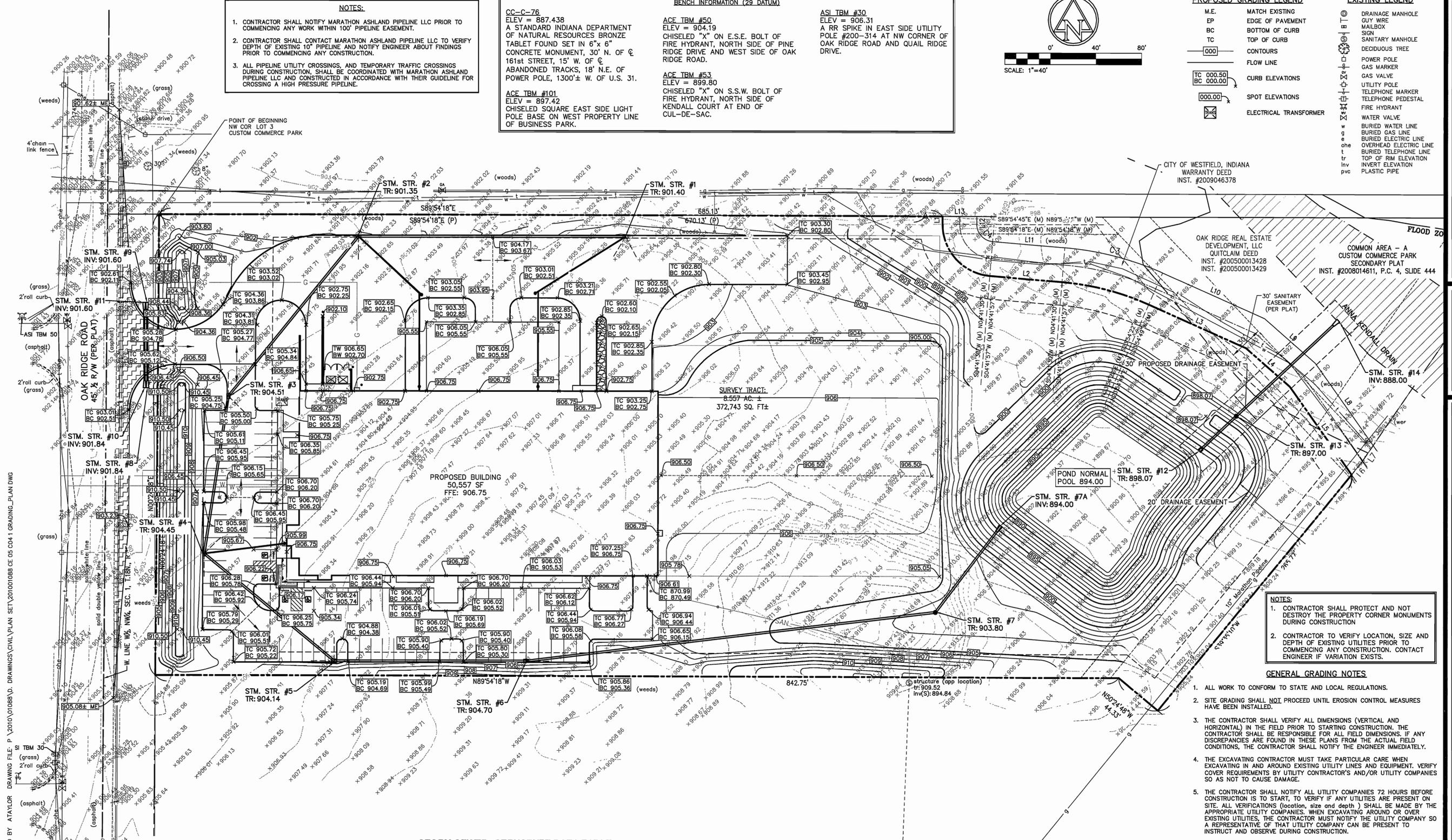
ACE TBM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.



- PROPOSED GRADING LEGEND**
- M.E. MATCH EXISTING
 - EP EDGE OF PAVEMENT
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - CONTOURS
 - FLOW LINE
 - CURB ELEVATIONS
 - SPOT ELEVATIONS
 - ELECTRICAL TRANSFORMER
- EXISTING LEGEND**
- DRAINAGE MANHOLE
 - GUY WIRE
 - MALEBOX
 - SIGN
 - SANITARY MANHOLE
 - DECIDUOUS TREE
 - POWER POLE
 - GAS MARKER
 - UTILITY POLE
 - TELEPHONE MARKER
 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - WATER VALVE
 - BURIED WATER LINE
 - BURIED GAS LINE
 - BURIED ELECTRIC LINE
 - OVERHEAD ELECTRIC LINE
 - BURIED TELEPHONE LINE
 - TOP OF RM ELEVATION
 - INVERT ELEVATION
 - PLASTIC PIPE



NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

GENERAL GRADING NOTES

- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
- TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
- AFTER STRIPPING TOPSOIL MATERIAL, PROTECT WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FLOW, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
- ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
- ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
- INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
- DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
- DUE TO SITE CONSTRAINTS, THE SITE MAY OR MAY NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.
- A PORTION OF THIS LOT LIES WITHIN SPECIAL FLOOD HAZARD ZONE AE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, PANEL NUMBER 1805700120 F, DATED FEBRUARY 19, 2003.

STORM SEWER - STRUCTURE DATA TABLE

STR NO	STRUCTURE TYPE	CASTING TYPE	PIPE L F	PIPE SIZE	TYPE	T.O.R.	UPSTIM DNSTIM	GRADE (%)	CONNECT TO STRUCT	REMARKS
1	TYPE "J" INLET	R-3287-SB10	234	18	RCP	901.40	897.73	896.98	0.32	2
2	TYPE "C" MANHOLE	R-3287-SB10	179	24	RCP	901.35	896.98	896.36	0.35	3
3	TYPE "C" MANHOLE	R-3010	138	24	RCP	904.51	896.36	895.83	0.38	4
4	TYPE "C" MANHOLE	R-3010	147	24	RCP	904.45	895.83	895.25	0.40	5
5	TYPE "J" MANHOLE	R-3010	168	30	RCP	904.14	895.25	894.91	0.20	6
6	TYPE "J" MANHOLE	R-3010	360	30	RCP	904.70	894.91	894.19	0.20	7
7	TYPE "J" MANHOLE	R-1772	95	30	RCP	903.80	894.19	894.00	0.20	7A
7A	CONCRETE END SECTION	-	-	-	-	-	894.00	-	-	OUT
8	CONCRETE END SECTION	-	-	-	-	-	901.84	901.60	0.32	9
9	CONCRETE END SECTION	-	-	-	-	-	901.60	-	-	OUT
10	CONCRETE END SECTION	-	-	-	-	-	901.84	901.60	0.32	11
11	CONCRETE END SECTION	-	-	-	-	-	901.60	-	-	OUT
12	OUTLET CONTROL STRUCTURE	-	-	-	-	-	894.00	893.40	1.40	13
13	TYPE "C" MANHOLE	R-1772	122	18	RCP	897.00	889.71	888.00	1.40	14
14	CONCRETE END SECTION	-	-	-	-	-	888.00	-	-	OUT

*ALL SPECIFIED CASTINGS ARE NEENAH FOUNDRY, APPROVED EQUALS MAY BE SUBSTITUTED

CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

DRAWING FILE: P:\2010\01088\0 - DRAWINGS\CIVIL\PLAN SET\201001088 CE 05 004-1 GRADING_PLAN.DWG
EDIT DATE: 10/16/09 - 10:40 AM
EDITED BY: ATAYLOR
PLOT SCALE: 1:25849

7380 SHADELAND STATION
INDIANAPOLIS, IN 46268-3957
TEL 317 547 5860 FAX 317 543 9270
www.structurepoint.com

STRUCTUREPOINT INC.

REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY: [Signature]

GRADING PLAN

AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE:	02/24/2011
DRAWN BY:	DRAWN BY
CHK'D BY:	TMJ
JOB NO.:	201001088

REVISIONS

SHEET NO.
C4.1
OF

PLOT SCALE: 1"=1' EDIT DATE: 10/16/09 - 8:16 AM EDITED BY: JHODD DRAWING FILE: P:\2010\1088\01088\01088.DRAWINGS\CIVIL\PLAN SET\20101088.CE.06.C05.1 EROSION_CONTROL_PLAN.DWG

NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6" X 6" CONCRETE MONUMENT, 30' N. OF ϕ 161st STREET, 15' W. OF ϕ ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

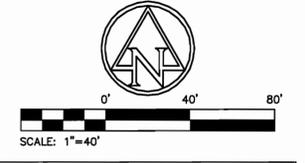
ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

ACE TBM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.

BENCH INFORMATION (29 DATUM)



NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

- EXISTING LEGEND**
- DRAINAGE MANHOLE
 - MAILBOX
 - SIGN
 - SANITARY MANHOLE
 - DECIDUOUS TREE
 - POWER POLE
 - GAS MARKER
 - GAS VALVE
 - UTILITY POLE
 - TELEPHONE MARKER
 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - WATER VALVE
 - BURIED WATER LINE
 - BURIED GAS LINE
 - BURIED ELECTRIC LINE
 - OVERHEAD ELECTRIC LINE
 - BURIED TELEPHONE LINE
 - TOP OF RIM ELEVATION
 - INVERT ELEVATION
 - PLASTIC PIPE

7880 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.9600
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

TIMOTHY M. JENSEN
REGISTERED
No.
10708270
STATE OF
INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY [Signature]

EROSION CONTROL PLAN

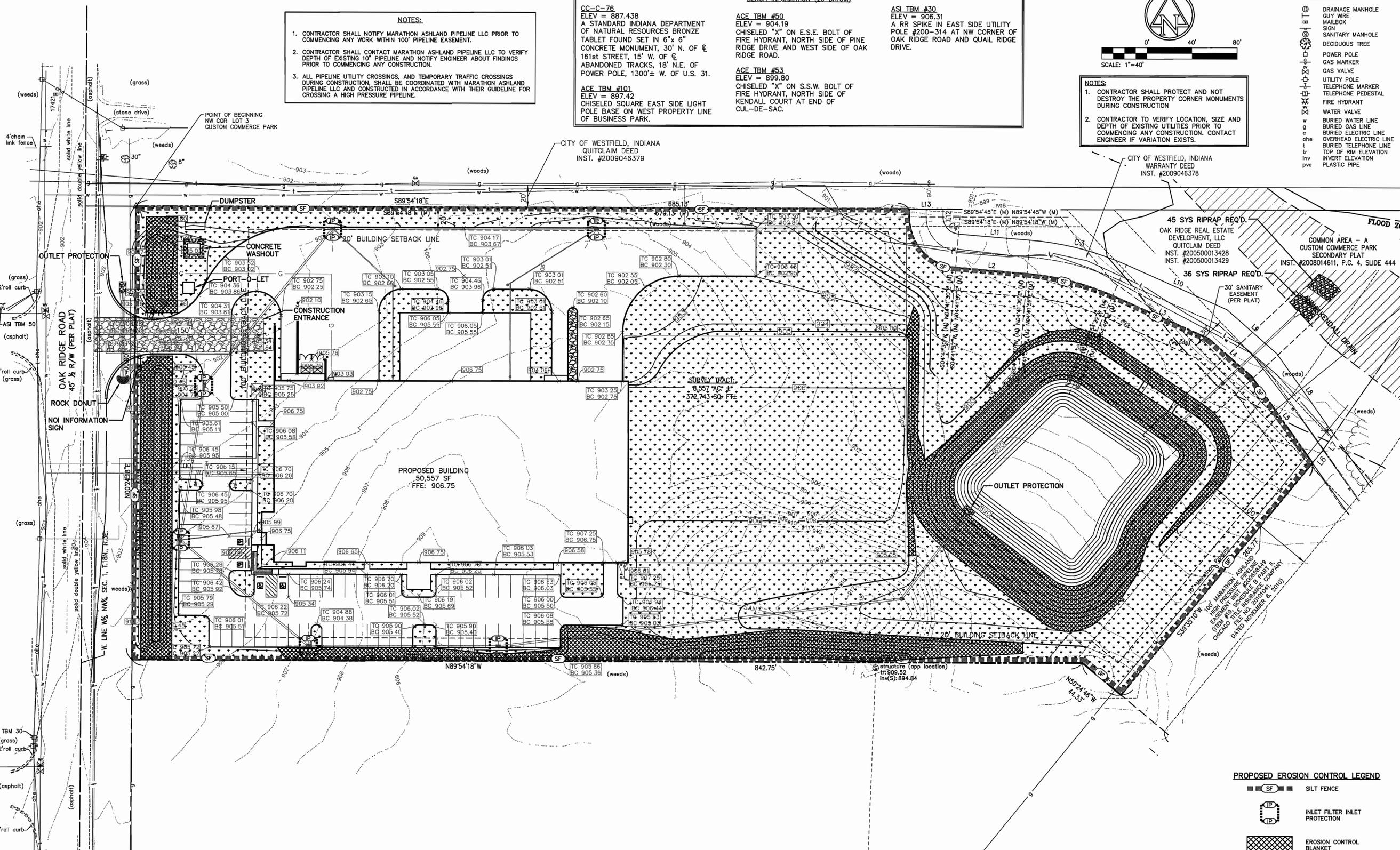
PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE: 02/24/2011
DRAWN BY: DRAWN BY
CHK'D BY: TMJ
JOB NO.: 201001088

REVISIONS	

SHEET NO.
C5.1
OF



- EROSION CONTROL NOTES**
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
 - CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
 - THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
 - SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
 - WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
 - SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
 - SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
 - IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
 - ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
 - A PORTION OF THIS LOT LIES WITHIN SPECIAL FLOOD HAZARD ZONE AE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, PANEL NUMBER 18057C0120 F, DATED FEBRUARY 19, 2003.
 - SCHEDULE OF EARTHWORK ACTIVITIES:
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED

SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.

b. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.

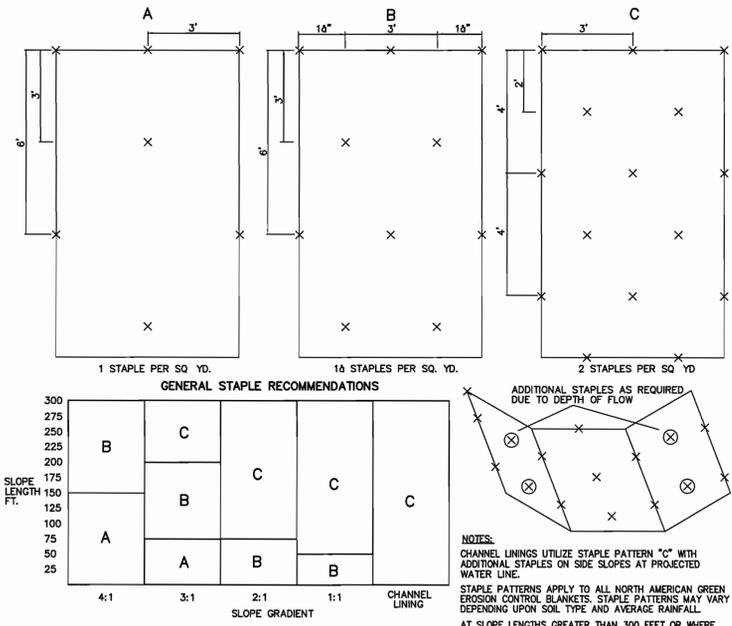
CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

- PROPOSED EROSION CONTROL LEGEND**
- SILT FENCE
 - INLET FILTER INLET PROTECTION
 - EROSION CONTROL BLANKET
 - TEMPORARY SEEDING
 - GRAVEL CONSTRUCTION ENTRANCE
 - M.E. EDGE OF PAVEMENT
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - CONTOURS
 - FLOW LINE
 - CURB ELEVATIONS
 - SPOT ELEVATIONS
 - ROCK DONUT

EROSION CONTROL NOTES:

- CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, DRAINAGE SWALES AND DETENTION BASIN.
- PRELIMINARY CONSTRUCTION SCHEDULE: EARTHWORK SHALL BEGIN IN THE SUMMER 2011. INSTALLATION OF STORM DRAINAGE STRUCTURES, SANITARY SEWERS AND WATERMAINS SHALL BEGIN IN THE SUMMER OF 2011. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2012. THIS SCHEDULE IS SUBJECT TO CHANGE.
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
- THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
- ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
- SCHEDULE OF EROSION CONTROL ACTIVITIES:
 - INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
 - TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
 - FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
 - SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
- ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
- CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT DRIVES WHICH ARE CURRENTLY PAVED.
- CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
- CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER, TOWN OF FISHERS OR THE HAMILTON COUNTY SOIL AND WATER CONSERVATION DISTRICT IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.



EROSION CONTROL MAT INSTALLATION GUIDE DETAIL
NOT TO SCALE

EROSION CONTROL BLANKET (SURFACE APPLIED) INSTALLATION REQUIREMENTS

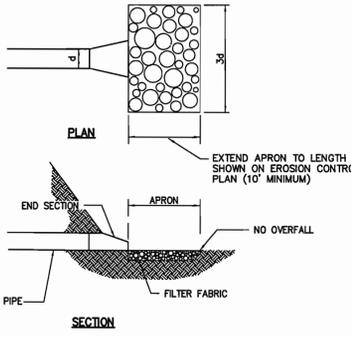
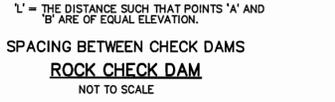
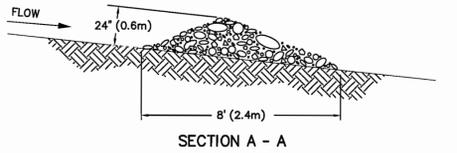
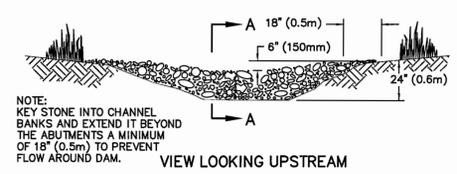
- SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (e.g., SLOPE, CHANNEL, FLOW VELOCITY).
- INSTALL ANY PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT DIVERSION, SEDIMENT BASIN OR TRAP, SILT FENCE.
- GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
- ADD TOPSOIL WHERE APPROPRIATE.
- PREPARE THE SEEDBED, FERTILIZE (AND LIME, IF NEEDED), AND SEED THE AREA IMMEDIATELY AFTER GRADING.
- FOLLOWING MANUFACTURER'S DIRECTIONS, LAY THE BLANKETS ON THE SEED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL, AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 IN.
- TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SILT TRENCH), BACKFILL WITH SOIL, AND TAMP DOWN.
- ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 6-8 IN. METAL STAPLES INTO THE GROUND IN A PATTERN DETERMINED BY THE SITE CONDITIONS.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS

- DURING VEGETATIVE ESTABLISHMENT INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
- IF ANY AREA SHOWS EROSION PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
- AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY.

SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING		A	A						A			
DORMANT SEEDING	B										B	
TEMPORARY SEEDING		C	E						D			

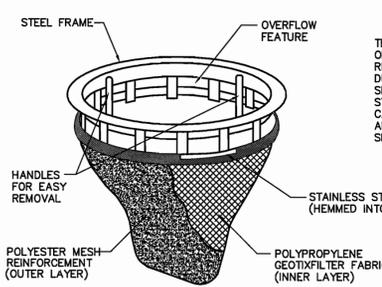
- A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDING
 B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDING
 C = SPRING OATS 3 BUSHELS/ACRE
 D = WHEAT OR RYE 2 BUSHELS/ACRE
 E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB./1000 SQ. FT)
 A/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



- NOTES:**
- FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND WELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 6 IN. THICK.
 - STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
 - MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL).
 - REFER TO SHEET C4.9 FOR DETAIL OF BANK ARMORMENT AT OUTLET TO LEGAL DRAIN.
- RIPRAP MAINTENANCE REQUIREMENTS**
- INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING, AND EROSION AT EDGES, ESPECIALLY DOWNSTREAM OR DOWNSLOPE.

CATCH-ALL STORMWATER INLET PROTECTOR

THE CATCH-ALL IS AN INLET AND CATCH BASIN FILTRATION DEVICE DEVELOPED TO PREVENT SEDIMENTATION. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING, AND COULD REPRESENT A BEST MANAGEMENT PRACTICE FOR YOUR EPA PHASE 2 PROGRAM.



TEMPORARY INSTALLATION: CONSTRUCTION PROJECTS ON HIGHWAYS AND NEW HOUSING DEVELOPMENTS CAN RESULT IN SUBSTANTIAL AMOUNTS OF SEDIMENT DURING A RAINSTORM. TRADITIONAL PRACTICE, USING SILT SCREENS, HAY BALES, AND FILTER FABRIC UNDER STORM GRATES PROVIDE ONLY LIMITED PROTECTION. CATCH-ALL WILL HOLD 2 CUBIC FEET OF GRAVEL, SILT, AND DEBRIS, AND CAN BE MOVED FROM SITE-TO-SITE.

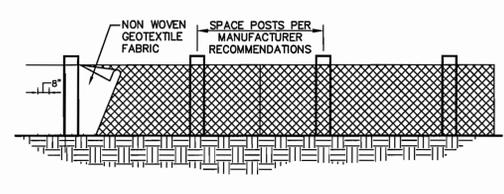
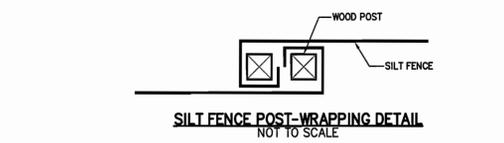
CATCH-ALL HAS BEEN APPROVED FOR USE ON MANY HOT ROAD CONSTRUCTION PROJECTS.

PERMANENT INSTALLATION:

COMMERCIAL AND INDUSTRIAL SITES WITH IMPERVIOUS SURFACES, SUCH AS ROADS AND PARKING LOTS, PRODUCE STORMWATER RUN-OFF THAT MAY INCLUDE PAPER REFUSE, CIGARETTES, SEDIMENT, AND EVEN SOME FLOATING OILS. THESE CONTAMINANTS CAN QUICKLY ADD UP TO A SIGNIFICANT AMOUNT IN CATCH BASINS OR MUNICIPAL SYSTEMS. WITHOUT PROPER TREATMENT, STORMWATER LADEN WITH SUCH MATERIALS CAN POLLUTE STREAMS, LAKES, AND NEAR-SHORE WATERS. THE UNIQUE DESIGN OF THE REUSABLE STEEL FRAME OF CATCH-ALL PROVIDES AN OVERFLOW CAPACITY GREATER THAN THE OPEN AREA OF THE GRATE IT FITS UNDER. THIS MEANS LITTLE CHANCE FOR WATER TO BACK UP OR POOL, EVEN BETWEEN SCHEDULED CLEANINGS. THE DURABLE, REINFORCED SEDIMENT BAG CAN BE CLEANED NUMEROUS TIMES AND IS EASILY REPLACED IN THE FIELD. THE ENTIRE UNIT IS INSTALLED BELOW GRADE AND NO REBAR, CLIPS, OR STRAPS ARE EXPOSED ON THE SURFACE. WITH A TOP FLANGE LESS THAN 1/8" THICK, THE ADDITIONAL HEIGHT EXPOSURE OF THE GRATE IS MINIMAL. CATCH-ALL CAN BE AN IMPORTANT SUPPLEMENT FOR CATCH BASINS AND UNDERGROUND STORMWATER STORAGE SYSTEMS THAT ARE USUALLY DIFFICULT TO ACCESS FOR CLEANING. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING.

D2 LAND & WATER RESOURCE INC.

P.O. BOX 20792
 INDIANAPOLIS, IN 46220
 PHONE (317) 917-2180
 FAX (317) 917-2181
 TOLL FREE (800) 597-2180
 www.d2lwr.com



NOTE:

POSTS SHALL HAVE A MINIMUM LENGTH OF 36 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE WOOD, STEEL, OR SYNTHETIC, AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DEGRADATION FROM ULTRAVIOLET AND HEAT EXPOSURE.

MINIMUM 8" FABRIC BURY REQUIRED.

SILT FENCE CONSTRUCTION
NOT TO SCALE

SILT FENCE INSTALLATION REQUIREMENTS:

- SITE PREPARATION:**
- PLAN FOR THE FENCE TO BE AT LEAST 10 FT. FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT TRAP.
 - PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.

OUTLET CONSTRUCTION (OPTIONAL):

- DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL RUNOFF FROM A 2 YEAR FREQUENCY, 24 HR DURATION STORM EVENT)
- SET THE OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1 1/2 FT. AT THE LOWEST POINT ALONG THE FENCE LINE.
- LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 FT. APART, AND INSTALL A HORIZONTAL BRACE BETWEEN THEM. (WEIR HEIGHT SHOULD BE NO MORE THAN 1 FT. DEEP, 5 FT. WIDE, AND 3 FT. LONG ON LEVEL GRADE.)
- EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 FT. AND WATER DEPTH NO MORE THAN 1 1/2 FT. ANYWHERE ELSE ALONG THE FENCE.)
- FILL THE EXCAVATED FOUNDATION WITH INDOT CA NO. 1 STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLENDS WITH THE SURROUNDING AREA, ALLOWING NO OVERFILL.
- STABILIZE THE AREA AROUND THE PAD.

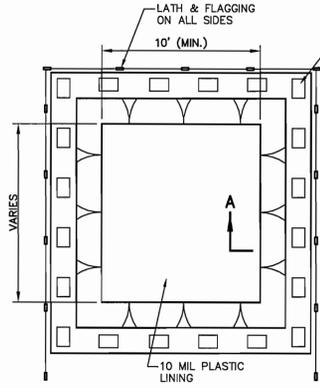
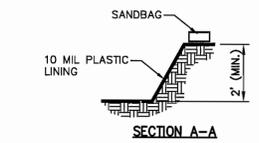
FENCE CONSTRUCTION:

- ALONG THE ENTIRE INTENDED FENCE LINE, DIG AN 8 IN. DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH.
- ON THE DOWNSIDE SLOPE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT. INTO THE GROUND (THE DEEPER THE BETTER!), SPACING THEM NO MORE THAN 8 FT. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 FT. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE. (NOTE: IF THE FENCE HAS PRE-ATTACHED POSTS OR STAKES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6).
- FASTEN SUPPORT WIRE FENCE (IF THE MANUFACTURER RECOMMENDS ITS USE) TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN. INTO THE TRENCH.
- RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
- IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
- PLACE THE BOTTOM 1 FT. OF FABRIC IN THE 8 IN. DEEP TRENCH, EXTENDING THE REMAINING 4 IN. TOWARD THE UPSLOPE SIDE.
- BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

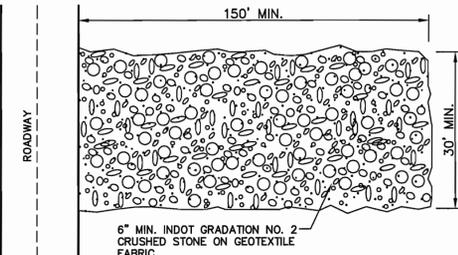
NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SILT FENCE MAINTENANCE REQUIREMENTS:

- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
- IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED AREA IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
- IF THE SEDIMENTATION HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.



- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND SLOPE FOR POSITIVE DRAINAGE.
 - IF SLOPE TOWARD THE ROAD EXCEEDS 2% CONSTRUCT A 6-8 IN. HIGH WATER BAR (RIDGE) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FT. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
 - INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
 - IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
 - PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
 - DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:**
- INSPECT ENTRANCE PAD AND SEDIMENT AREA WEEKLY AND AFTER STORM EVENTS OF HEAVY USE.
 - RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 - TOP DRESS WITH DIMENSIONS AS NEEDED, BEING SURE TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
 - IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
 - REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.



GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

7260 SHADELAND STATION
 INDIANAPOLIS, IN 46256-8857
 TEL 317 541 2411
 www.structurepoint.com

AMERICAN
STRUCTUREPOINT
 INC.

TIMOTHY M. JENNER
 REGISTERED
 No. 10708270
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

CERTIFIED BY 2/24/11

EROSION CONTROL DETAILS

PREPARED FOR:
AUTOMATIC POOL COVERS
 9001 EAST 133RD PLACE
 FISHERS, IN 46038

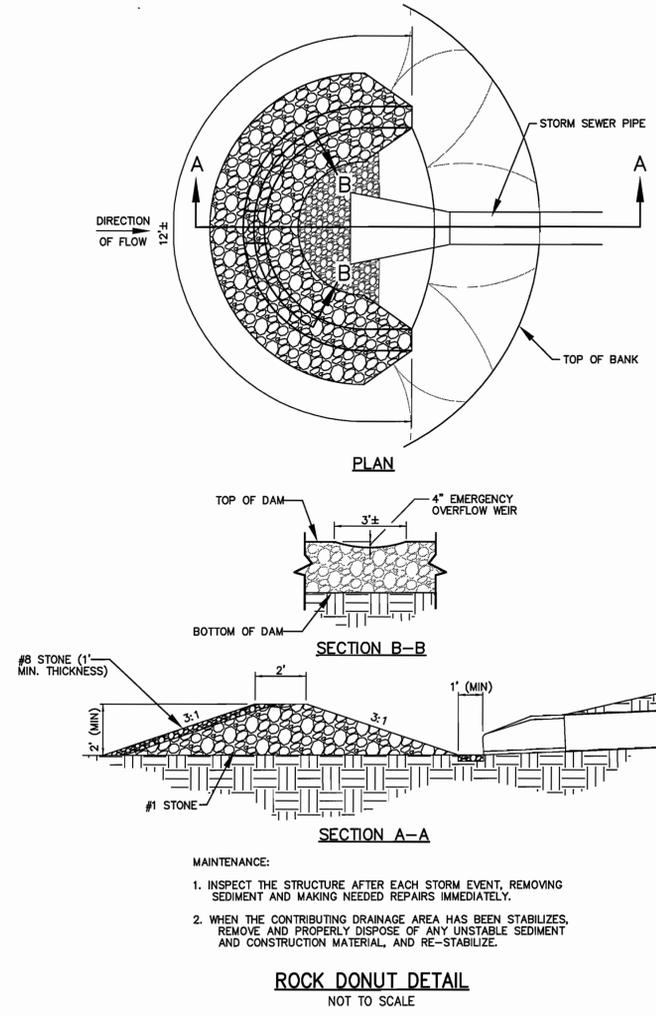
PROJECT:
AUTOMATIC POOL COVERS
 OAK RIDGE ROAD
 WESTFIELD, IN

DATE: 02/24/2011
 DRAWN BY: JH
 CHK'D BY: TMJ
 JOB NO. 201001088

REVISIONS

SHEET NO.
C5.2
 OF

PLOT SCALE: 1:1 EDIT DATE: 10/16/09 2:01 PM EDITED BY: DMARGRAF DRAWING FILE: P:\2010\01088\ADV. DRAWINGS\CVIL\PLAN SET\201001088.CE 07.C05.2-C05.3 EROSION_CONTROL_DETAILS.DWG



EROSION CONTROL DETAILS

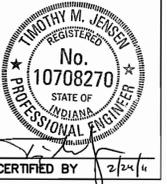
PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE: 02/24/2011
DRAWN BY: J.J.H.
CHK'D BY: T.M.J.
JOB NO. 201001088

REVISIONS	

SHEET NO.
C5.3
OF



AMERICAN
STRUCTUREPOINT
INC.



7260 SHADELAND STATION
COLUMBIANA, IN 47016
TEL: 317.547.8500 FAX: 317.543.8270
www.structurepoint.com

SITE NAME:

The area scheduled for construction is known as "Automatic Pool Covers" (hereinafter referred to as the "Project").

PROJECT LOCATION:

The property is located at northeast corner of Oak Ridge Road and Foundation Parkway in (Westfield, Indiana), at a latitude of 40°02'15.87" N and a longitude of 86°08'39.61" W.

OWNER'S INFORMATION:

Name: Automatic Pool Covers, Inc.
Address: 9001 East 33rd Place, Fishers, IN 46038
Representative: Michael Shebeck
Title: President
Telephone: (317) 579-2000
Facsimile: (317) 579-2006

OPERATOR'S INFORMATION:

Name: Automatic Pool Covers, Inc.
Address: 9001 East 33rd Place, Fishers, IN 46038
Representative: Michael Shebeck
Title: President
Telephone: (317) 579-2000
Facsimile: (317) 579-2006

NOTICE OF INTENT:

All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted.

- a. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.
b. The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a storm water pollution prevention plan for the site or other permit conditions.

A2 11" x 17" PLAT:

Refer to Site Plan

A3 PROJECT NARRATIVE:

This project consists of the construction of the development of approximately 8.55 acres in (Westfield, Indiana). The development includes the construction of an industrial building and a parking lot including infrastructure, not limited to the following activities: removal and stockpiling of topsoil and installation of sanitary sewers and laterals, water laterals, storm sewers, and other utilities. The site shall be paved and landscaped.

The drainage plans for the site include a storm sewer designed for conveyance of 10-year flood discharges to the proposed detention pond along the eastern property line.

A4 VICINITY MAP:

Refer to Title Sheet

A5 LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
Part of Lot 3 and Common Area "A"
Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2008014611 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) courses are along said West Line: 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeasterly along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds West from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeasterly along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence South 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 265.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds East 842.75 feet to the West Line of said Lot 3; thence North 90 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning , containing 8.557 acres, more or less.

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS:

The site will not be subdivided; therefore, there are no individual lots on the property. The Site Plan shows the proposed site improvements.

A7 HYDROLOGIC UNIT CODE (HUC):

05120201090030

A8 STATE AND FEDERAL WATER QUALITY PERMITS:

None are required for this project.

A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE:

Stormwater drainage from the site will be conveyed by a proposed storm sewer to a proposed detention pond located along the eastern side of the site. The ultimate receiving waters for the detention pond is Anna Kendall Legal Drain.

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE:

Anna Kendall Legal Drain is directly east of the project site.

A11 IDENTIFICATION OF ALL RECEIVING WATERS:

The ultimate receiving water is Anna Kendall Legal Drain.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER:

There are no locations on site where surface water may be discharged into ground water.

A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES:

A portion of this site does lie within special flood hazard AE. The information was obtained from Flood Insurance Rate Map Panel 18057/00120 F dated February 19, 2003 for Hamilton County, Indiana.

A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE:

Pre-construction 10-year discharge: 13.18 cfs
Post-construction 10-year discharge: 2.71 cfs

A15 ADJACENT LAND USE:

North: Residential
East: Industrial
South: Industrial
West: Residential

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:

Refer to the Erosion Control Plan for the construction limits.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER:

At this time, woodland and grass cover exists.

A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS:

Soil information from the county Soil Survey is on the Erosion Control Plan. This site has Brookston silt clay loam, Crosby silt loam, Miami silt loam, and Shoals silt loam soils.

The suitability of the soils for dwellings without basements is listed as a range from somewhat limited to very limited. The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the pavement system. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geobaric within or under the pavement system, or treatment of the subgrade with lime.

The suitability of the soils for pavement (local roads and streets) is listed as very limited. The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the pavement system. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geobaric within or under the pavement system, or treatment of the subgrade with lime.

Other suitability or limitations of the soil for the other classifications of use listed in the table are not applicable to this project.

A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS:

Locations of stormwater systems: See Grading Plan
Size of storm sewer: See Grading Plan
Details of storm inlets and manholes: See Site Details

A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT:

Off site construction activities shall consist of connections to existing utility services.

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL:

Excess soil shall be immediately stockpiled and seeded and/or removed from the construction site in accordance with all applicable laws.

A22 EXISTING SITE TOPOGRAPHY:

Refer to the Existing Topography Plan Sheet.

A23 PROPOSED FINAL SITE TOPOGRAPHY:

Refer to the Grading Plan.

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:

The following potential pollutant sources may be associated with construction activities on site:

- 1. Material storage areas (more specifically described below).
2. Construction waste material.
3. Fuel storage areas and fueling stations.
4. Exposed soils.
5. Leaking vehicles and equipment.
6. Sanitary waste from temporary toilet facilities.
7. Litter.
8. Washdown dust.
9. Soil tracking off site from construction equipment.

The following construction materials will be staged or stored on site at various points during development of the site:

- 1. Structural fill.
2. Road Base.
3. Plastic drainage pipe.
4. Water main pipe and appurtenances.
5. Concrete drainage pipe.
6. Concrete culverts.
7. Precast concrete manholes.
8. Road rip-rap

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES:

- 1. Install construction entrance.
2. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
3. Install staging area, fueling station, material storage area and concrete truck washout.
4. Strip the top soil and grade.
5. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
6. Prior to building construction install stone surface for paved areas.
7. Building pads left dormant for more than 15 days, must be temporarily seeded.
8. Start building construction, install staging area for building materials.
9. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
10. Seed the perimeter of the site.
11. Complete utility installation, curbs, paving and building construction.
12. Install landscaping plant material and stabilize all disturbed areas.
13. Remove all erosion and sediment control practices when areas have a uniform grass cover.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:

Refer to the Erosion Control Plan for location and Erosion Control Details for details.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on erodible areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fence will be installed to prevent sedimentation from leaving the site. Because lengths and heights of the slopes are small, more aggressive erosion control measures were not considered.

Refer to Sheet Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:

There are no proposed concentrated flow areas on-site.

Straw bales and silt fences will not be allowed as concentrated flow protection measures.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS:

The contractor shall install inlet protection in each inlet in paved areas and straw bales around inlets in grass areas during construction. Refer to the Erosion Control Plan for locations and refer to Erosion Control Details for details.

Straw bales alone will not be allowed as inlet protection measures.

B7 RUNOFF CONTROL MEASURES:

Not applicable.

B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

Stormwater outlets will be protected by riprap aprons. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to Erosion Control Plan for locations and Erosion Control Details for details.

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:

The detention ponds will provide a sediment removal function in addition to the primary function of controlling peak discharges from the site. Temporary or permanent surface stabilization required for thin or bare area that is inactive for 15 days or more.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON:

Refer to the Erosion Control Details, within the Seasonal Soil Protection Chart.

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS:

- A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow plan of planting soil within a few days.
B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent.
D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations.
E. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
G. Install erosion control blankets as indicated on the plan.
H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including trees and shrub installation.
J. Refer to the Erosion Control Details, within the Seasonal Soil Protection Chart for timing of temporary and permanent seeding and grass seed specifications.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN:

Solid Waste Disposal: No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials including construction materials incidental to the construction activity, must be collected in containers or closed dumpster's. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste:

Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

Dust Control/Off-Site Vehicle Tracking:

During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Sanitary/Septic:

Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water Source:

Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas:

Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage:

Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Material Handling and Spill Prevention:

Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local Soil and Water Conservation District. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout:

All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan:

Minor - Small spills that typically involve oil gasoline, paint, hydraulic fluid etc. Minor spills can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if this spill could be a safety issue.
- Contact supervisors and designated inspectors immediately
- Contaminated solids to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals or has the potential for surface or groundwater pollution.

- Control or contain the spill without making bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazard material spill.
- Contact supervisors and designated inspectors immediately. Other county or municipal officials (City of Westfield Engineering Department) responsible for storm water facilities should be contacted as well. The contractor is responsible for providing contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management, Office of Emergency Response 1-888-233-7745. The following information should be noted for future reports to IDEM or the National Response Center.
o Name, address and phone number of person making the spill report
o The location of the spill
o The time of the spill
o Identification of the spilled substance
o Approximate quantity of the substance that has been spilled or may be further spilled
o The duration and source of the spill
o Name and location of the damaged waters
o Name of spill response organization
o What measures were taken in the spill response
o Other information that may be significant

Additional regulation or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

Inspection Schedule/Reporting:

All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground effects), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local Soil and Water Conservation District.

Construction Entrance:

Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections:

Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

Soil Stabilization Inspections:

Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of vegetation must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections:

All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

- 1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: Sediment should be removed when it reaches approximately one-half the height of the fence. If a sump used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic area should be replaced on a regular basis to maintain uniform protection.
5. Sediment Traps: Accumulated silt shall be removed and the basin shall be regarded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be regarded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrance: Periodic raking and top dressing with additional stones.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets.

Modifications/Revisions to SWPPP:

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not prove adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination:

Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOI within thirty (30) days after one or more of the following conditions have been met:

- 1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS:

Since the entire site is under a single ownership, there are not any individual building lots.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

The proposed land use is industrial. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.

Pollutant Source: Office building.
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash dumpster.
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), unseated food products, bacteria.

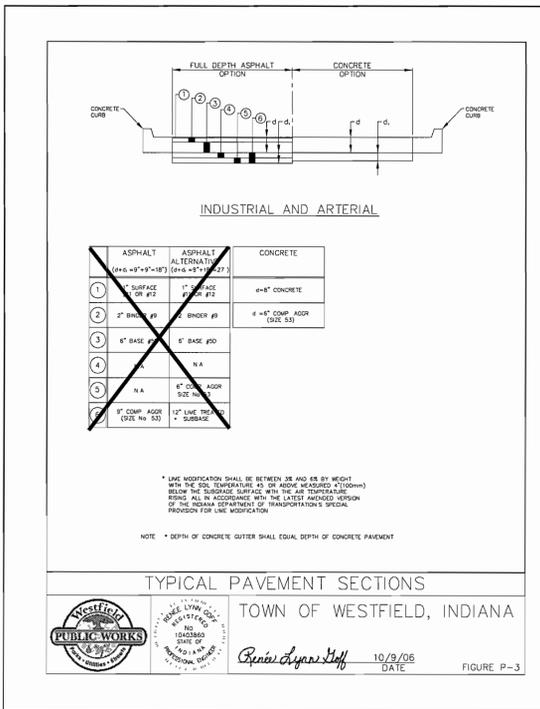
Pollutant Source: Parking lot.
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and landscape areas.
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

The anticipated pollution sources are the vehicles that will use facility, including both delivery trucks and passenger vehicle traffic. Possible pollutants include oil, gasoline, anti-freeze and other pollutants associated with vehicular traffic.

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

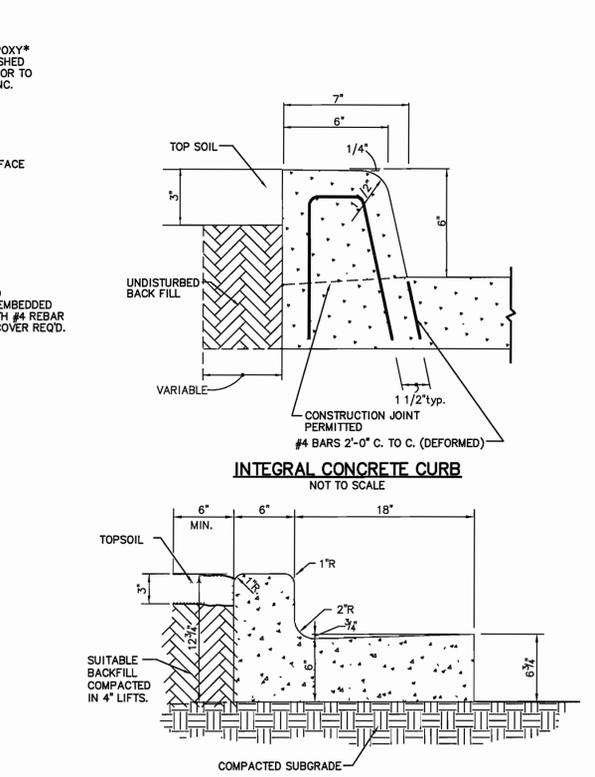
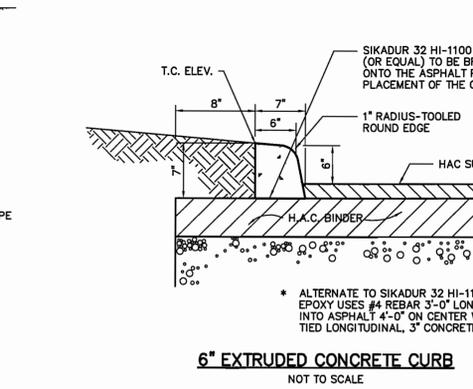
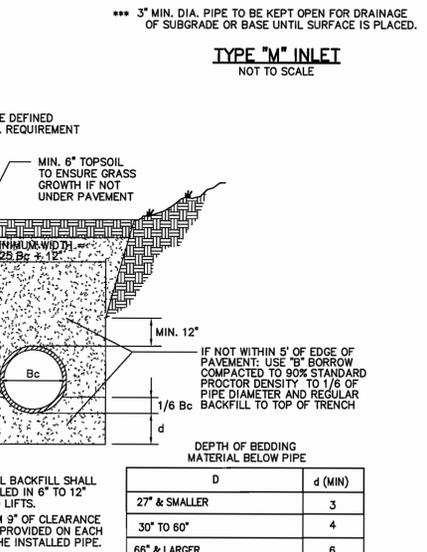
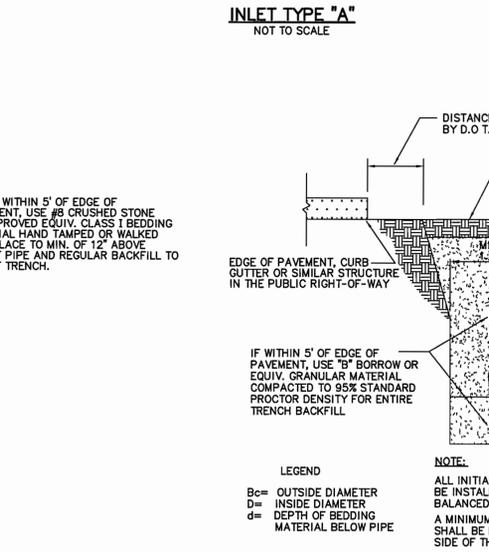
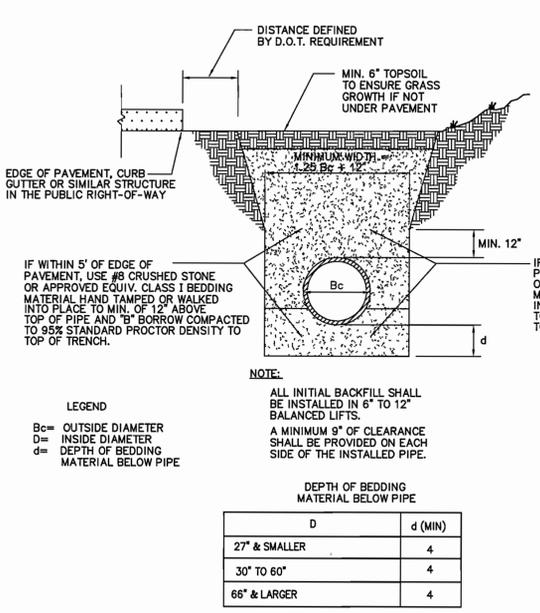
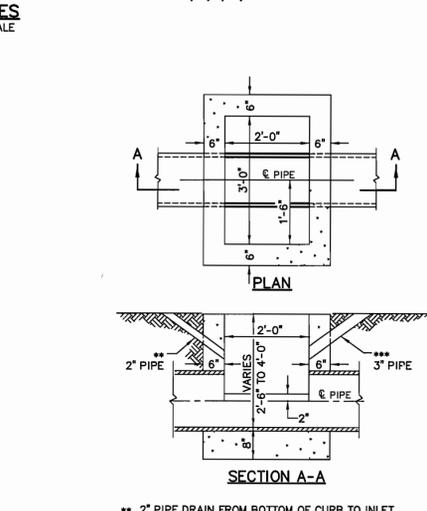
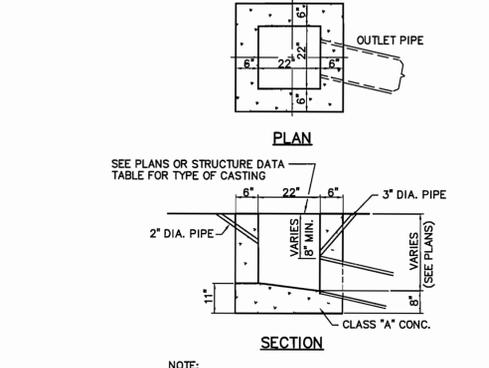
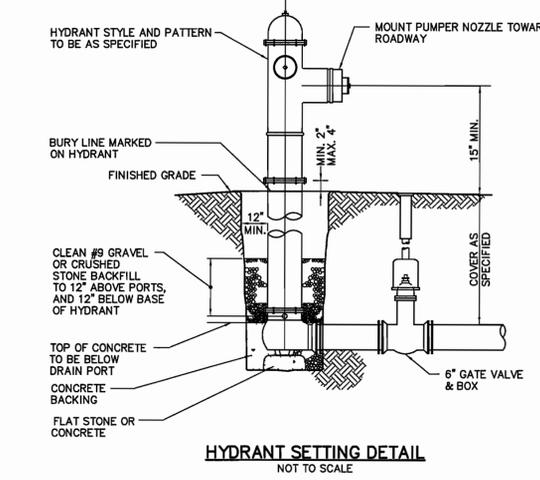
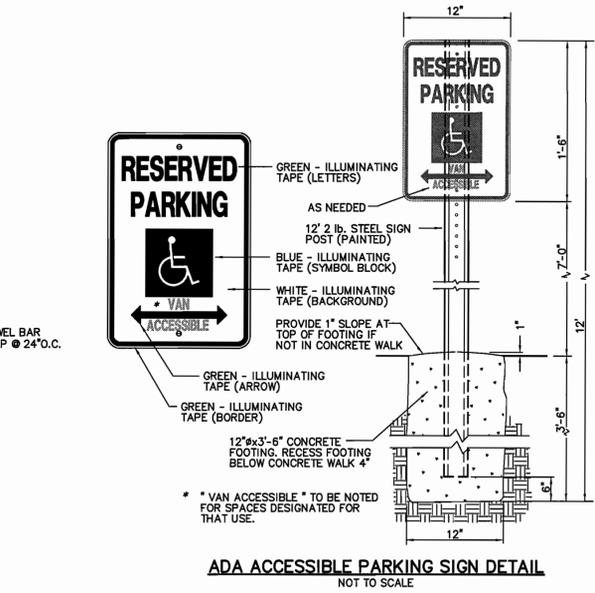
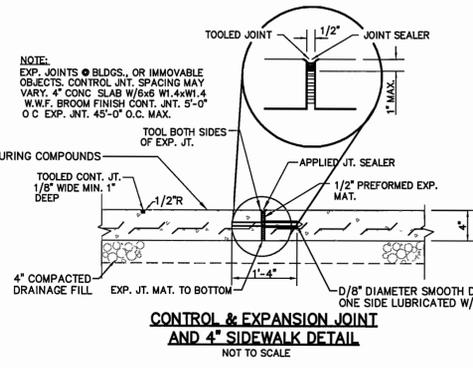
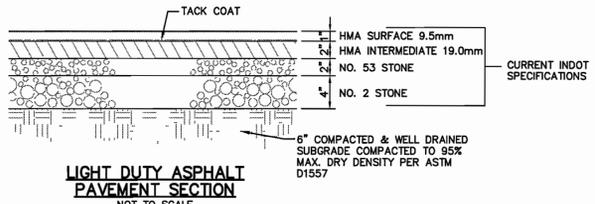
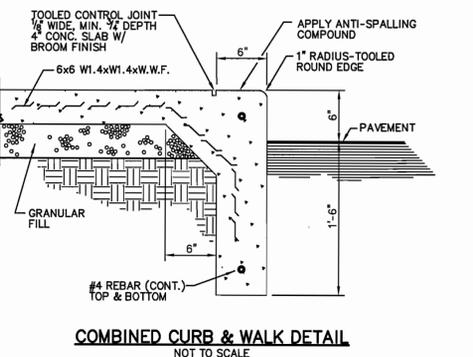
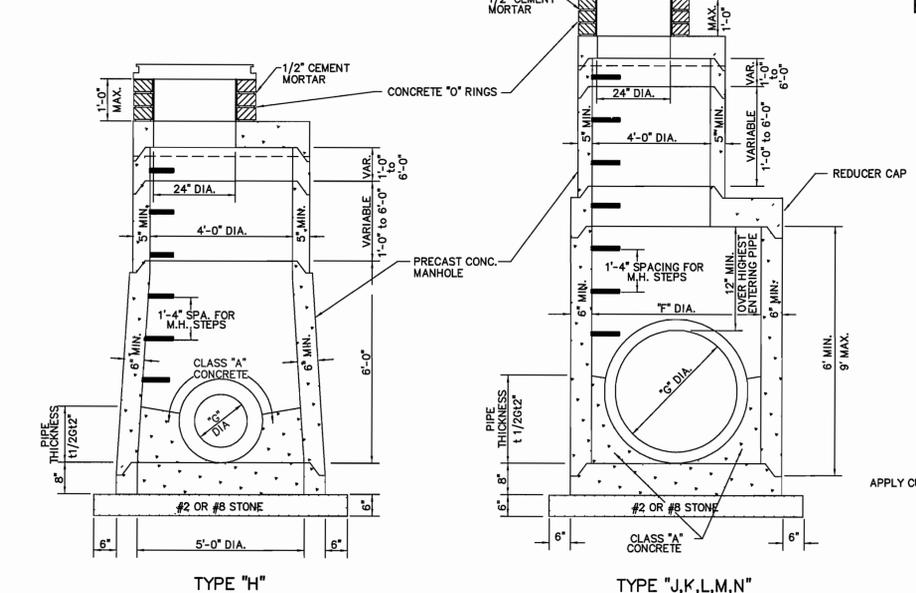
The stormwater detention pond will remain in place as a permanent feature after construction is completed. Although the purpose of the ponds is to restrict stormwater discharges



MANHOLE

TYPE	"G"	"F"	MAXIMUM PIPE SIZE RT. ANGLE TO MAINLINE	MAXIMUM PIPE SIZE FOR MAINLINE
H	24" to 36"		30"	36"
J	24" to 36"	60"	33"	36"
K	36" x 48"	72"	36"	48"
L	48" x 54"	96"	48"	54"
M	54" x 72"	102"	66"	72"
N	72" x 84"	108"	72"	84"

NOTES:
DROP PIPE MAY BE USED WITH MANHOLE'S TYPE H THRU N AND SHALL BE REFERRED TO AS DROP MANHOLE TYPE H THRU N.



PLOT SCALE: 1:1 EDIT DATE: 10/16/09 8:46 AM DRAWING FILE: P:\2010\01088\0 DRAWINGS\CIVIL\PLAN SET\201001088.CE.09.09.08.1-C06.2 SITE DETAILS.DWG

7260 SHADELAND STATION
INDIANAPOLIS, IN 46266-8957
TEL 317 547 5477
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

THOMAS M. JENSEN
REGISTERED PROFESSIONAL ENGINEER
No. 10708270
STATE OF INDIANA
CERTIFIED BY 2/24/10

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE: 02/24/2011
DRAWN BY: J.J.H.
CHK'D BY: T.M.J.
JOB NO. 201001088

REVISIONS

SHEET NO.
C6.1
OF

HILTON® - FLAT LENS

VARIOUS REFLECTORS ARE PROTECTED BY U.S. PATENT NO. 6,464,374

HODGING LENS - One-piece aluminum housing with bottom door access. Hilton and Hilton S Small Round lens aluminum housing with a choice of two top access doors (one or none).

DOOR FRAMING COVER PATENTERS - Large four-stemmed cast copper door frames provide secure closure and allow easy access with no frame hardware for ease of installation. The door frame is held removable. Hilton S and Hilton S Small Three-stemmed cast copper door frames provide secure closure and allow easy access with no frame hardware. The top cover is attached to housing via a shear clip which fits both bolts and is installed with screws.

LONGCASE - Flat lens mounted glass lens, measuring 1/8" in thickness, is seated in the cast aluminum frame (Lamp) on the bottom of the lens housing (Hilton II and Hilton S) and held in place with EPDM extruded gasketing.

SOCKETS - Precision metal base sockets. All sockets are pre-wired.

LIGHT SOURCES - Pulse Start Metal Halide, Natural White Pulse Start Metal Halide, Compact Metal Halide, Metal Halide Reduced Emission and High Pressure Sodium. Clear lamp is supplied as standard.

BALLASTS - High-power factor ballasts are designed for 207 V operation. The removable ballast tray features a no-arc-discharge safety design. Pulse Start Metal Halide, 175-watt Natural White Pulse Start Metal Halide, Metal Halide and 250-watt and 400-watt High Pressure Sodium fixtures feature HO-HPF ballasts.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Hilton Flat Lens

Designation	Weight (lbs)	Length (in)	Width (in)	Height (in)
HFL 5	10.00	10.00	10.00	1.50
HFL 6	12.00	12.00	12.00	1.50
HFL 7	15.00	15.00	15.00	1.50
HFL 8	18.00	18.00	18.00	1.50
HFL 9	22.00	22.00	22.00	1.50
HFL 10	28.00	28.00	28.00	1.50
HFL 11	35.00	35.00	35.00	1.50
HFL 12	45.00	45.00	45.00	1.50
HFL 13	55.00	55.00	55.00	1.50
HFL 14	70.00	70.00	70.00	1.50
HFL 15	90.00	90.00	90.00	1.50
HFL 16	110.00	110.00	110.00	1.50
HFL 17	140.00	140.00	140.00	1.50
HFL 18	180.00	180.00	180.00	1.50
HFL 19	230.00	230.00	230.00	1.50
HFL 20	300.00	300.00	300.00	1.50

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

HILTON® FLAT LENS

LUMINAIRE ORDERING INFORMATION

EXAMPLE: HFL 5 1000 PSMV F MT PLP PCR 20

Luminaire	Designation	Lens	Light Source	Lens	Light Fixture	Options
HFL 5	1000	PSMV	F	MT	PLP	PCR 20

FINISHES - Each fixture is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire fixture, including the lens and mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Hilton Flat Lens

Designation	Weight (lbs)	Length (in)	Width (in)	Height (in)
HFL 5	10.00	10.00	10.00	1.50
HFL 6	12.00	12.00	12.00	1.50
HFL 7	15.00	15.00	15.00	1.50
HFL 8	18.00	18.00	18.00	1.50
HFL 9	22.00	22.00	22.00	1.50
HFL 10	28.00	28.00	28.00	1.50
HFL 11	35.00	35.00	35.00	1.50
HFL 12	45.00	45.00	45.00	1.50
HFL 13	55.00	55.00	55.00	1.50
HFL 14	70.00	70.00	70.00	1.50
HFL 15	90.00	90.00	90.00	1.50
HFL 16	110.00	110.00	110.00	1.50
HFL 17	140.00	140.00	140.00	1.50
HFL 18	180.00	180.00	180.00	1.50
HFL 19	230.00	230.00	230.00	1.50
HFL 20	300.00	300.00	300.00	1.50

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

STEEL ROUND POLES

POLE ORDERING INFORMATION

EXAMPLE: SRP60 S07G 24 S PLP SF DGP

Pole	Material	Height	Mounting	Finish	Options
SRP60	S07G	24	S	PLP	SF DGP

FINISHES - Each pole is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire pole, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Steel Round Poles

Designation	Weight (lbs)	Height (ft)	Material
SRP60	60	24	6061-T6
SRP72	84	24	6061-T6
SRP84	108	24	6061-T6
SRP96	132	24	6061-T6
SRP108	156	24	6061-T6
SRP120	180	24	6061-T6
SRP132	204	24	6061-T6
SRP144	228	24	6061-T6
SRP156	252	24	6061-T6
SRP168	276	24	6061-T6
SRP180	300	24	6061-T6
SRP192	324	24	6061-T6
SRP204	348	24	6061-T6
SRP216	372	24	6061-T6
SRP228	396	24	6061-T6
SRP240	420	24	6061-T6
SRP252	444	24	6061-T6
SRP264	468	24	6061-T6
SRP276	492	24	6061-T6
SRP288	516	24	6061-T6
SRP300	540	24	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

STEEL ROUND POLES

POLE ORDERING INFORMATION

EXAMPLE: SRP60 S07G 24 S PLP SF DGP

Pole	Material	Height	Mounting	Finish	Options
SRP60	S07G	24	S	PLP	SF DGP

FINISHES - Each pole is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire pole, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Steel Round Poles

Designation	Weight (lbs)	Height (ft)	Material
SRP60	60	24	6061-T6
SRP72	84	24	6061-T6
SRP84	108	24	6061-T6
SRP96	132	24	6061-T6
SRP108	156	24	6061-T6
SRP120	180	24	6061-T6
SRP132	204	24	6061-T6
SRP144	228	24	6061-T6
SRP156	252	24	6061-T6
SRP168	276	24	6061-T6
SRP180	300	24	6061-T6
SRP192	324	24	6061-T6
SRP204	348	24	6061-T6
SRP216	372	24	6061-T6
SRP228	396	24	6061-T6
SRP240	420	24	6061-T6
SRP252	444	24	6061-T6
SRP264	468	24	6061-T6
SRP276	492	24	6061-T6
SRP288	516	24	6061-T6
SRP300	540	24	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

AREA LIGHTING BRACKETS - BOLT-ON

BRACKET ORDERING INFORMATION

EXAMPLE: BKA B0 S 8 BRZ

Bracket	Material	Length	Bracket Finish	Options	SPA Values
BKA B0 S 8	BRZ	8	BRZ	None	-

FINISHES - Each bracket is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire bracket, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Area Lighting Brackets (Bolt-on)

Designation	Weight (lbs)	Length (in)	Material
BKA B0 S 8	8	8	6061-T6
BKA B0 S 12	12	12	6061-T6
BKA B0 S 16	16	16	6061-T6
BKA B0 S 20	20	20	6061-T6
BKA B0 S 24	24	24	6061-T6
BKA B0 S 28	28	28	6061-T6
BKA B0 S 32	32	32	6061-T6
BKA B0 S 36	36	36	6061-T6
BKA B0 S 40	40	40	6061-T6
BKA B0 S 44	44	44	6061-T6
BKA B0 S 48	48	48	6061-T6
BKA B0 S 52	52	52	6061-T6
BKA B0 S 56	56	56	6061-T6
BKA B0 S 60	60	60	6061-T6
BKA B0 S 64	64	64	6061-T6
BKA B0 S 68	68	68	6061-T6
BKA B0 S 72	72	72	6061-T6
BKA B0 S 76	76	76	6061-T6
BKA B0 S 80	80	80	6061-T6
BKA B0 S 84	84	84	6061-T6
BKA B0 S 88	88	88	6061-T6
BKA B0 S 92	92	92	6061-T6
BKA B0 S 96	96	96	6061-T6
BKA B0 S 100	100	100	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

AREA LIGHTING BRACKETS - BOLT-ON

BRACKET ORDERING INFORMATION

EXAMPLE: BKA B0 S 8 BRZ

Bracket	Material	Length	Bracket Finish	Options	SPA Values
BKA B0 S 8	BRZ	8	BRZ	None	-

FINISHES - Each bracket is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire bracket, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Area Lighting Brackets (Bolt-on)

Designation	Weight (lbs)	Length (in)	Material
BKA B0 S 8	8	8	6061-T6
BKA B0 S 12	12	12	6061-T6
BKA B0 S 16	16	16	6061-T6
BKA B0 S 20	20	20	6061-T6
BKA B0 S 24	24	24	6061-T6
BKA B0 S 28	28	28	6061-T6
BKA B0 S 32	32	32	6061-T6
BKA B0 S 36	36	36	6061-T6
BKA B0 S 40	40	40	6061-T6
BKA B0 S 44	44	44	6061-T6
BKA B0 S 48	48	48	6061-T6
BKA B0 S 52	52	52	6061-T6
BKA B0 S 56	56	56	6061-T6
BKA B0 S 60	60	60	6061-T6
BKA B0 S 64	64	64	6061-T6
BKA B0 S 68	68	68	6061-T6
BKA B0 S 72	72	72	6061-T6
BKA B0 S 76	76	76	6061-T6
BKA B0 S 80	80	80	6061-T6
BKA B0 S 84	84	84	6061-T6
BKA B0 S 88	88	88	6061-T6
BKA B0 S 92	92	92	6061-T6
BKA B0 S 96	96	96	6061-T6
BKA B0 S 100	100	100	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

HILTON® WALL SCONCE

VARIOUS REFLECTORS ARE PROTECTED BY U.S. PATENT NO. 6,464,374

HODGING - The one-piece die-cast aluminum wall sconce is designed for convenient, up-right, only, and convenient lighting. The sconce is designed for use with a variety of light sources, including incandescent, CFL, and LED. The sconce is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire sconce, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Hilton Wall Sconce

Designation	Weight (lbs)	Length (in)	Material
HWS 1	1	1	6061-T6
HWS 2	2	2	6061-T6
HWS 3	3	3	6061-T6
HWS 4	4	4	6061-T6
HWS 5	5	5	6061-T6
HWS 6	6	6	6061-T6
HWS 7	7	7	6061-T6
HWS 8	8	8	6061-T6
HWS 9	9	9	6061-T6
HWS 10	10	10	6061-T6
HWS 11	11	11	6061-T6
HWS 12	12	12	6061-T6
HWS 13	13	13	6061-T6
HWS 14	14	14	6061-T6
HWS 15	15	15	6061-T6
HWS 16	16	16	6061-T6
HWS 17	17	17	6061-T6
HWS 18	18	18	6061-T6
HWS 19	19	19	6061-T6
HWS 20	20	20	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

HILTON® WALL SCONCE

VARIOUS REFLECTORS ARE PROTECTED BY U.S. PATENT NO. 6,464,374

HODGING - The one-piece die-cast aluminum wall sconce is designed for convenient, up-right, only, and convenient lighting. The sconce is designed for use with a variety of light sources, including incandescent, CFL, and LED. The sconce is finished with Duragrip® LSI based on polyester powder coating process. The durable polyester powder finish provides excellent weather resistance and is available in a variety of colors. The finish is applied to the entire sconce, including the mounting hardware.

PHOTOMETRICS - Please see our web site at www.structurepoint.com for detailed photometric data.

ACCESSORY ORDERING INFORMATION - Accessories are sold separately.

SHIPPING WEIGHTS - Hilton Wall Sconce

Designation	Weight (lbs)	Length (in)	Material
HWS 1	1	1	6061-T6
HWS 2	2	2	6061-T6
HWS 3	3	3	6061-T6
HWS 4	4	4	6061-T6
HWS 5	5	5	6061-T6
HWS 6	6	6	6061-T6
HWS 7	7	7	6061-T6
HWS 8	8	8	6061-T6
HWS 9	9	9	6061-T6
HWS 10	10	10	6061-T6
HWS 11	11	11	6061-T6
HWS 12	12	12	6061-T6
HWS 13	13	13	6061-T6
HWS 14	14	14	6061-T6
HWS 15	15	15	6061-T6
HWS 16	16	16	6061-T6
HWS 17	17	17	6061-T6
HWS 18	18	18	6061-T6
HWS 19	19	19	6061-T6
HWS 20	20	20	6061-T6

© 2010 LSI INDUSTRIES INC. Project Name: _____ Fixture Type: _____

7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-9857
TEL: 317.547.9100
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY 2/2/10

PREPARED FOR:

AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:

AUTOMATIC POOL COVERS
OAK RIDGE ROAD
WESTFIELD, IN

DATE: 02/24/2011
DRAWN BY: JMH
CHK'D BY: TMJ
JOB NO: 201001088

REVISIONS

SHEET NO.
C6.3
OF

201001088 CE 09 C06.1 - C06.2 SITE_DETAILS.DWG

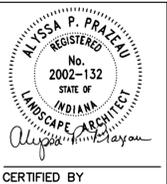


0' 40' 80'
SCALE: 1"=40'



12 S. Main Street, Suite 100 Fortville, IN 46040
tel 317.485.6900 fax 317.485.6912
www.contexts-design.com

7280 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com



CERTIFIED BY

PLANTING PLAN

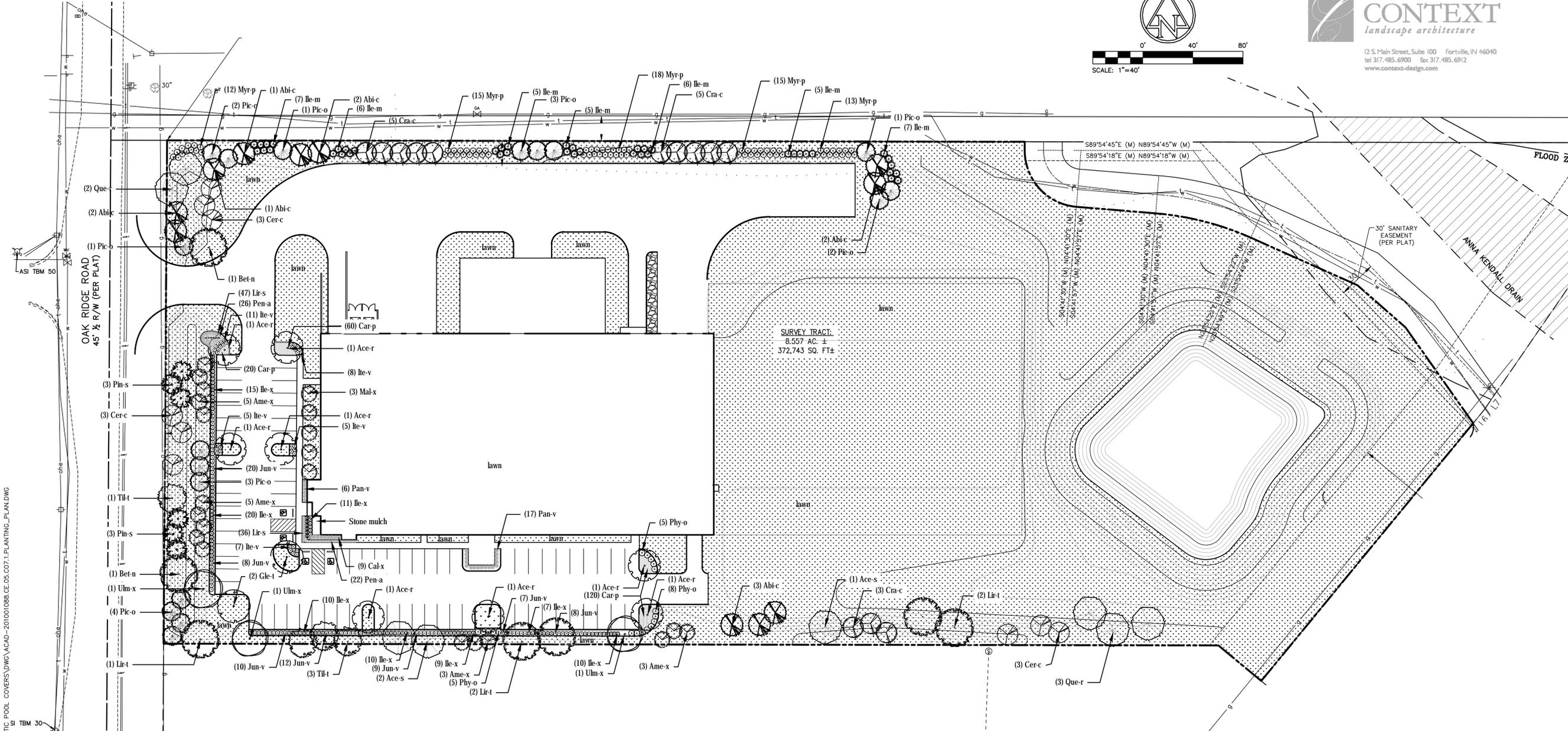
PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS

DATE: 01/21/2011
DRAWN BY: APP
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS	

SHEET NO.
C7.1
OF



GENERAL LANDSCAPE & PLANTING NOTES

1. Plant material to be installed and maintained by a qualified and experienced landscape installer.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. Stakes all plant locations for review and approval by the Landscape Architect before planting. On-site adjustments may be required. Plants are to be freshly dug. Transporting of plants shall be done in a manner as to not destroy the natural shape, compromise the health, or alter the characteristics of plant materials.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
4. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule.
5. All plant beds shall receive 3" minimum of genuine shredded hardwood bark mulch (unless otherwise noted). Apply pre-emergent herbicide as directed by the manufacturer prior to installing mulch. Sod all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or other treatment.
6. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet ASTM D5268 standards. Landscaper shall verify depth and quality of topsoil prior to plant installation. A minimum of 4" of topsoil is required for sodded areas; 12" for plant beds. Topsoil sources shall include the reuse of surface soil stockpiled on site, clean of roots, plants, sod, stones, clay lumps, and other extraneous or foreign materials larger than 1". Supplement with imported topsoil from off-site sources when quantities are insufficient. Do not obtain supplemental topsoil from agricultural land, bogs, or marshes. Inorganic amendments, organic amendments, and fertilizers shall be used to amend topsoil as needed for long-term plant health.
7. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to satisfaction of the Owner and Operating Authority at no additional cost.
8. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work. All workmanship and materials shall be guaranteed by the Contractor for a period of one (1) calendar year after Final Acceptance.
9. Maintain all plant material for a three (3) month period from date of Substantial Completion. Maintenance shall include pruning, cultivating, watering, weeding, fertilizing, restoring plant saucers, spraying for disease and insects, and replacing tree wrappings. Recommended long-term maintenance procedures shall be provided to the Owner before expiration of this period.

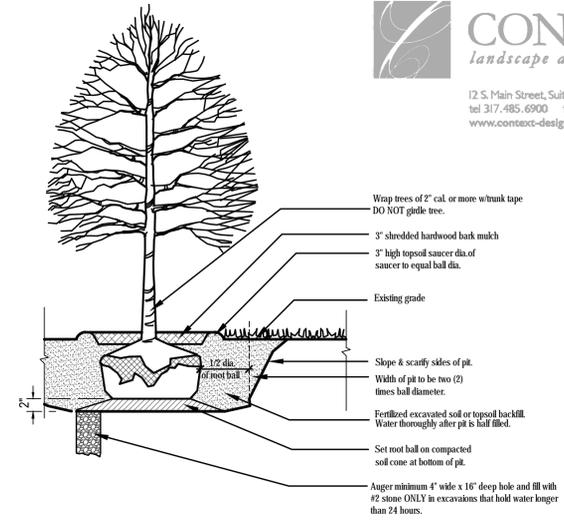
CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.
1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

NOTES:
1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

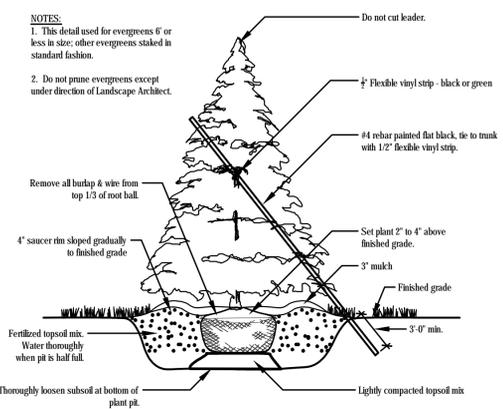
ORDINANCE TABLE	
Main Parcel Zoning: PUD-Industrial	
ON-SITE AND STREET FRONTAGE	
Requirements taken from WC 16.06.050	
On-Site Standards: 8.6 acres	
Shade Trees @ 5/acre: 43 required	
xx provided	
Ornamental Trees @ 5 per acre: 43 required	
xx provided	
Shrubs @ 25/acre: 215 required	
xxx provided	
Road Frontage Standards	
1 Shade Tree/40 Lf	
Foundation Parkway: 842 Lf = 21 trees required	
xx trees provided	
BUFFER YARDS	
Requirements taken from Section 6	
West Edge (Oak Ridge Road): 400 Lf @ 25' width	
Evergreen Trees @ 7/100 Lf = 28 required	
28 provided*	
*7 ornamental trees substituted for evergreens	
Shade Trees @ 2/100 Lf = 8 required	
8 provided	
North Edge (adjacent to AG-SF1): 885 Lf @ 40' width	
Requirements taken from WC 16.06.060	
Evergreen Trees @ 1/30 Lf = 23 required	
23 provided	
Evergreen Shrubs @ 5/30 Lf = 114 required	
114 provided	
PARKING AREA LANDSCAPE	
Requirements taken from WC 16.06.070	
Interior Parking Requirements: 80 spaces = 10%	
Landscape Islands = 3,293 required	
3,308 provided	
Ten (10) Islands = 10 trees required	
10 trees provided	
40 shrubs required	
41 shrubs provided	
Perimeter Parking Requirements	
West Edge: 181 Lf	
Tree @ 1/30 Lf = 6 tree required	
6 trees provided	
Shrub @ 1/3 Lf = 60 required	
63 provided	
South Edge: 282 Lf	
Tree @ 1/30 Lf = 9 tree required	
9 trees provided	
Shrub @ 1/3 Lf = 94 required	
94 provided	

PLOT SCALE: 1:2,584.9 EDIT DATE: 10/16/09 - 8:54 AM EDITED BY: APRAZEAU DRAWING FILE: M:\11-516 AUTOMATIC POOL COVERS\DWG\ACAD-201001088.CE.05.C07.1.PLANTING_PLANDWG

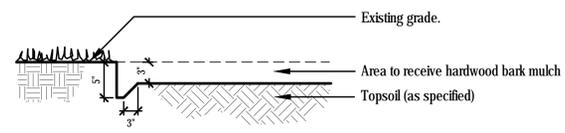
Symbol	Botanical Name	Common Name	Size	Container	Notes
TREES					
Abi-c	Abies concolor	White Fir	6' ht.	B&B	symmetrical, full
Ace-r	Acer rubrum 'October Glory'	October Glory Red Maple	2" cal.	B&B	full, matched
Ace-s	Acer saccharum 'Legacy'	Legacy Sugar Maple	2" cal.	B&B	full, matched
Ame-x	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	8' ht.	B&B	multi-stemmed, 3-5 stems
Bet-n	Betula nigra 'Cully'	Heritage River Birch	8' ht.	B&B	clump form, 3 divisions
Cer-c	Cercis canadensis	Redbud	8' ht.	B&B	clump form, 5-7 stems
Cra-c	Crataegus crus galli var. inermis	Thomless Cockspur Hawthorn	2" cal.	B&B	symmetrical, matched
Gle-t	Gleditsia triacanthos inermis 'Skycole'	Skycole Honeylocust	2" cal.	B&B	symmetrical, full
Lir-t	Liriodendron tulipifera	Tulip Tree	2" cal.	B&B	full
Mal-x	Malus x David'	David Crabapple	2" cal.	B&B	full, matched
Pic-o	Picea omorika	Serbian Spruce	6' ht.	B&B	symmetrical, full
Pin-s	Pinus strobus 'Fastigata'	Fastigate White Pine	6' ht.	B&B	full, strong central leader
Que-r	Quercus rubra	Red Oak	2" cal.	B&B	dug in spring, symmetrical
Til-t	Tilia tomentosa	Silver Linden	2" cal.	B&B	full, matched
Ulm-x	Ulmus 'Princeton'	Princeton Elm	2" cal.	B&B	symmetrical, matched
SHRUBS					
Cle-a	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	24"	container	space @ 3'-0" o.c.
Ile-x	Ilex x 'Willemer'	Emerald Magic Holly	24"	container	space @ 3'-5" o.c.
Ile-m	Ilex x meserveae 'Blue Princess'	Blue Princess Holly	30"	container	space @ 6'-0" o.c. Provide one male species per grouping
Ite-v	Itea virginica 'Henry's Gamet'	Henry's Gamet Sweetspire	24"	container	space @ 3'-0" o.c.
Jun-v	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	24"	container	space @ 3'-0" o.c. allow to mass into hedge
Myr-p	Nyrica pensylvanica	Northern Bayberry	30"	container	space @ 5'-0" o.c. allow to mass
Phy-o	Physocarpus opulifolius 'Monb'	Diablo Purple Ninebark	30"	container	space @ 5'-0" o.c.
GROUNDCOVERS AND GRASSES					
Cal-x	Calamagrostis x 'Cheju-do'	Dwarf Feather Reed Grass	#1	pot	space @ 2'-0" o.c.
Car-p	Carex pennsylvanica	Pennsylvania Sedge	#1	pot	space @ 18" o.c., triangular spacing
Hel-s	Helictotrichon sempervirens 'Sapphire'	Sapphire Blue Oat Grass	#1	pot	space @ 2'-0" o.c.
Lir-s	Liriope spicata	Creeping Lilyturf	#1	pot	space @ 15" o.c.
Pan-v	Panicum virgatum 'Dallas Blues'	Dallas Blues Switch Grass	#1	pot	space @ 3'-0" o.c.



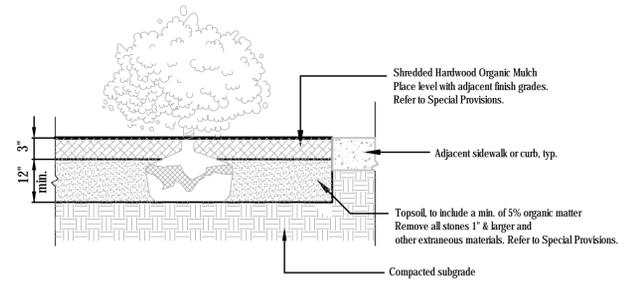
TREE PLANTING
Not to Scale



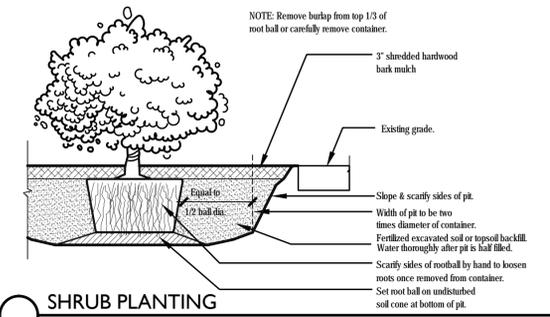
EVERGREEN TREE PLANTING
Not to Scale



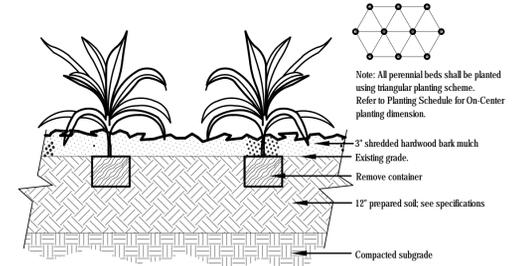
SPADE EDGE
Not to Scale



LANDSCAPE BED PREPARATION
Not to Scale

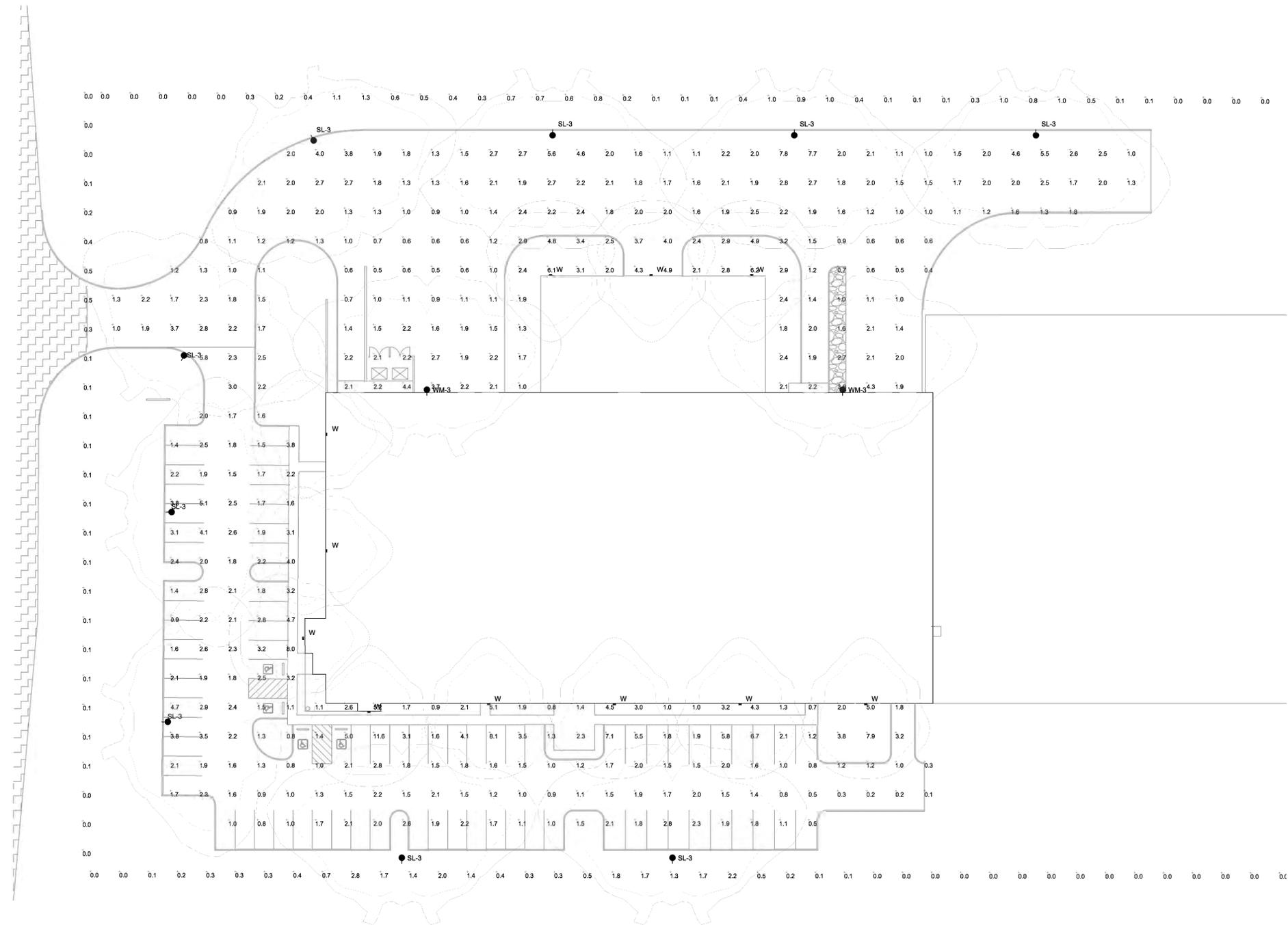


SHRUB PLANTING
Not to Scale



PERENNIAL PLANTING
Not to Scale

REVISIONS



SITE LIGHTING NOTES:

SCALE: 1"=20'

1. LIGHT LEVELS ARE MAINTAINED WITH A .80 LIGHT LOSS FACTOR.
2. LIGHT LEVELS ARE CALCULATED 2'-6" ABOVE FINISH FLOOR.
3. LIGHT POLES ARE 23' TALL MOUNTED ON BASES 2'-0" A.F.G., OVERALL FIXTURE HEIGHT : 25' A.F.F.
4. TYPE WM-3 IS MOUNTED 25' A.F.F.
5. TYPE W

HILTON® WALL SCONCE



HILTON® - FLAT LENS



PROJECT NAME:
AUTOMATIC POOL COVERS

LIGHTING LAYOUT AND PROPOSAL FOR
AUTOMATIC POOL COVERS
7850 Shepley Street
Indianapolis, IN 46256
317-780-8350

Revisions		
Rev.	Date	By

Project Notes:

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions.
This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps, and other variable field conditions.