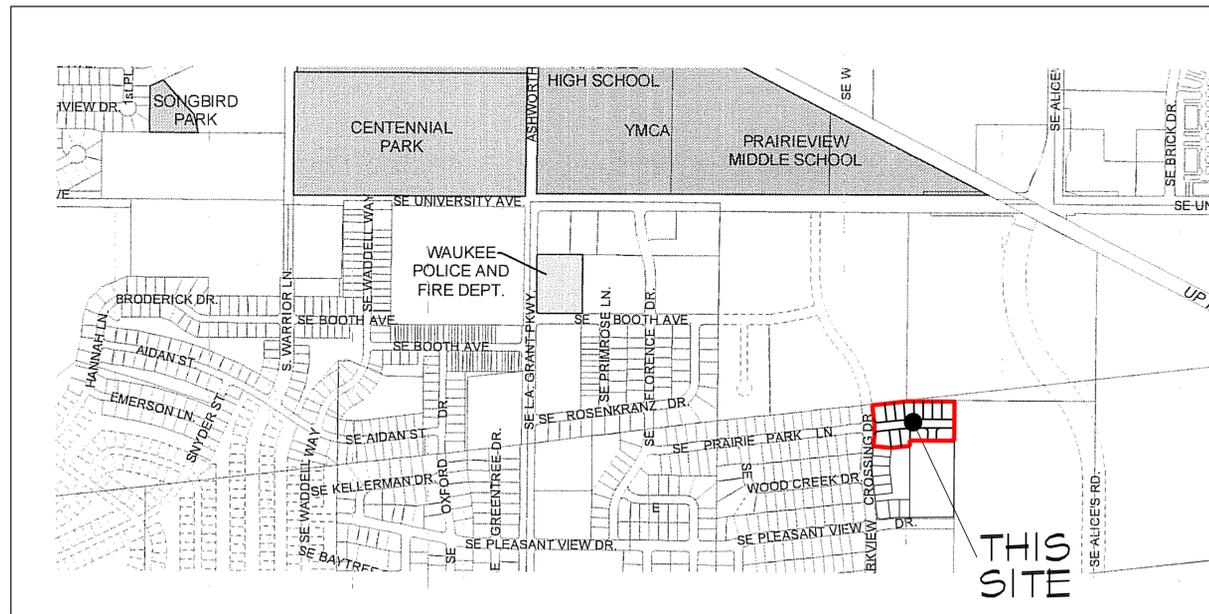


# CONSTRUCTION DRAWINGS

# PARKVIEW CROSSING

## PLAT 9 - PHASE TWO

JERRY'S HOMES, INC. - 3301 NW 106th CIRCLE - URBANDALE, IOWA 50322



VICINITY SKETCH NO SCALE

### DRAWING INDEX

- 1 SANITARY SEWER
- 2 WATER PLAN
- 3 STORM SEWER
- 4 GRADING
- 5 PAVING

### BENCHMARK

CITY OF WAUKEE BENCHMARK LOCATED ON THE BURY BOLT OF THE WATER HYDRANT LOCATED ON THE N.W. CORNER OF LOT 26, PARKVIEW CROSSING PLAT 6 ELEVATION= 1025.46

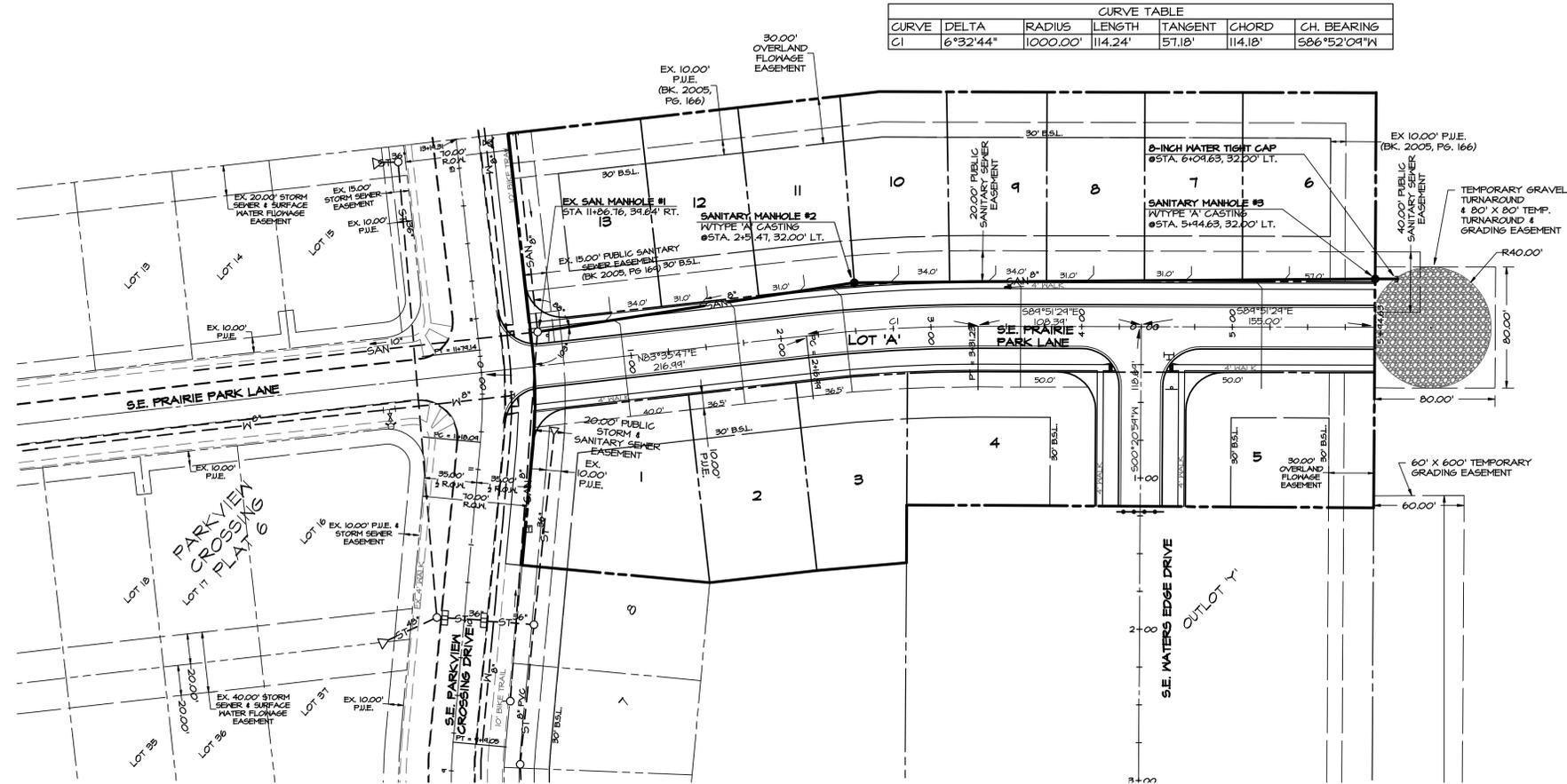
### CERTIFICATION

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	MELISSA M. HILLS, IOWA REG. NO. 16023      DATE MY LICENSE RENEWAL DATE IS DECEMBER 31, 2011 PAGES OR SHEETS COVERED BY THIS SEAL: SHEETS 1 - 5

CIVIL ENGINEERING CONSULTANTS, INC. 2400 86TH STREET, #12, DES MOINES, IOWA 50322

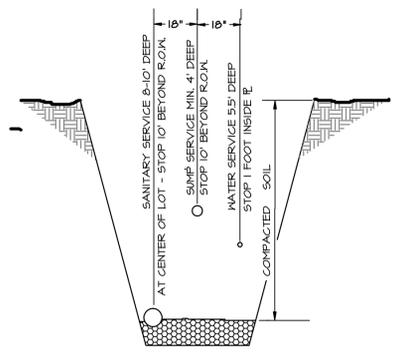
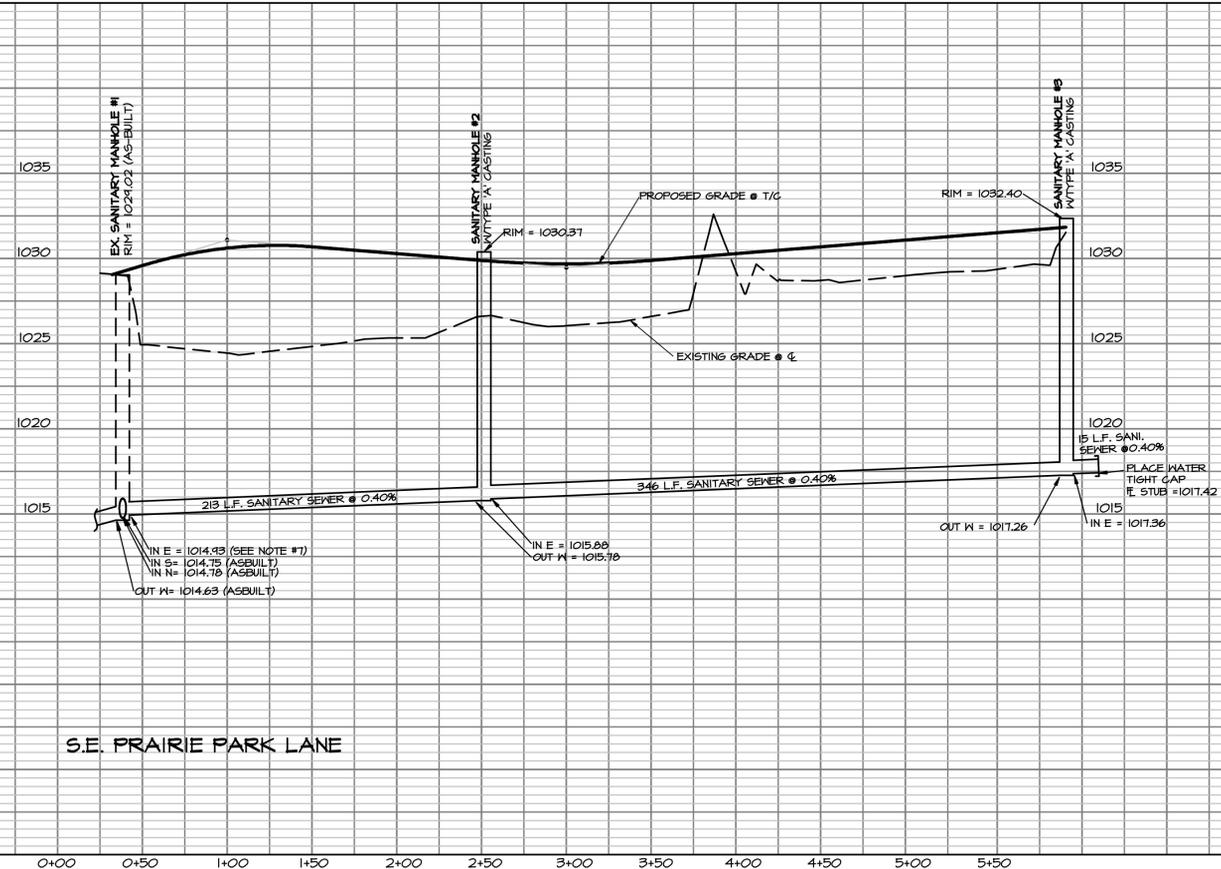
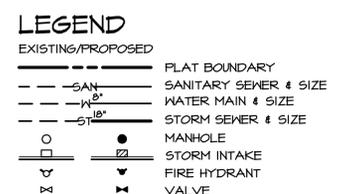
DATE: FEBRUARY 07, 2011  
 REVISION: FEBRUARY 21, 2011  
 MARCH 02, 2011

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C1	6°32'44"	1000.00'	114.24'	57.18'	114.18'	S86°52'04"W



- NOTES**
- ALL CONSTRUCTION (PUBLIC & PRIVATE) SHALL BE IN ACCORDANCE WITH THE IOWA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. CURRENT SPECIFICATIONS ARE AVAILABLE ONLINE AT: [WWW.IOWAENGINEERS.COM/PDF/SPEC\\_STD\\_SPEC\\_2005A.PDF](http://WWW.IOWAENGINEERS.COM/PDF/SPEC_STD_SPEC_2005A.PDF)
  - CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
    - CITY OF WAUKEE ENGINEERS OFFICE
    - JERRY'S HOMES, INC.
    - CIVIL ENGINEERING CONSULTANTS, INC.
    - IOWA ONE-CALL
  - THE LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE THE LOCATION OF EXISTING FACILITIES AS SHOWN, OR THAT ALL EXISTING FACILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING THIS AREA, AND IOWA ONE CALL, TO DETERMINE THE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
  - THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
  - CASTING TYPES ARE FROM SUDAS SPECS.
  - CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RECONNECTING ANY FARM TILE DAMAGED DURING CONSTRUCTION & FOR RECORDING THE LOCATION OF TILE.
  - WHEN CONNECTING TO ANY EXISTING MANHOLE, CORE DRILL MANHOLE & POUR WELL DEFINED INVERT. CONNECTION SHALL BE CONSTRUCTED WITH A WATERTIGHT SEAL. CONTRACTOR SHALL FIELD VERIFY THE INVERT INTO EXISTING MANHOLE #1 TO DETERMINE IF THE PROPOSED FLOW LINE NEEDS TO BE RAISED IN ORDER TO POUR A WELL DEFINED INVERT.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ASBUILT LOCATIONS OF ALL SANITARY SEWER SERVICES & PROVIDING THIS INFORMATION TO THE ENGINEER.

- QUANTITIES**
- 574 L.F. 8-INCH SANITARY SEWER
  - 2 EA. TYPE 'A' MANHOLE SERVICES
  - 1 EA. 8-INCH WATER TIGHT CAP



SANITARY & SUMP SERVICES SHALL BE MARKED AT THE END OF PIPE WITH A 2X4 TO THE SURFACE & A STEEL FENCE POST. PLACE ONE 6 FT. STEEL POST BURIED 3 FT. AT WATER CURB BOX. COLOR MARKING OF SERVICES SHALL BE RED FOR SANITARY, GREEN FOR SUMPS AND BLUE FOR WATER.

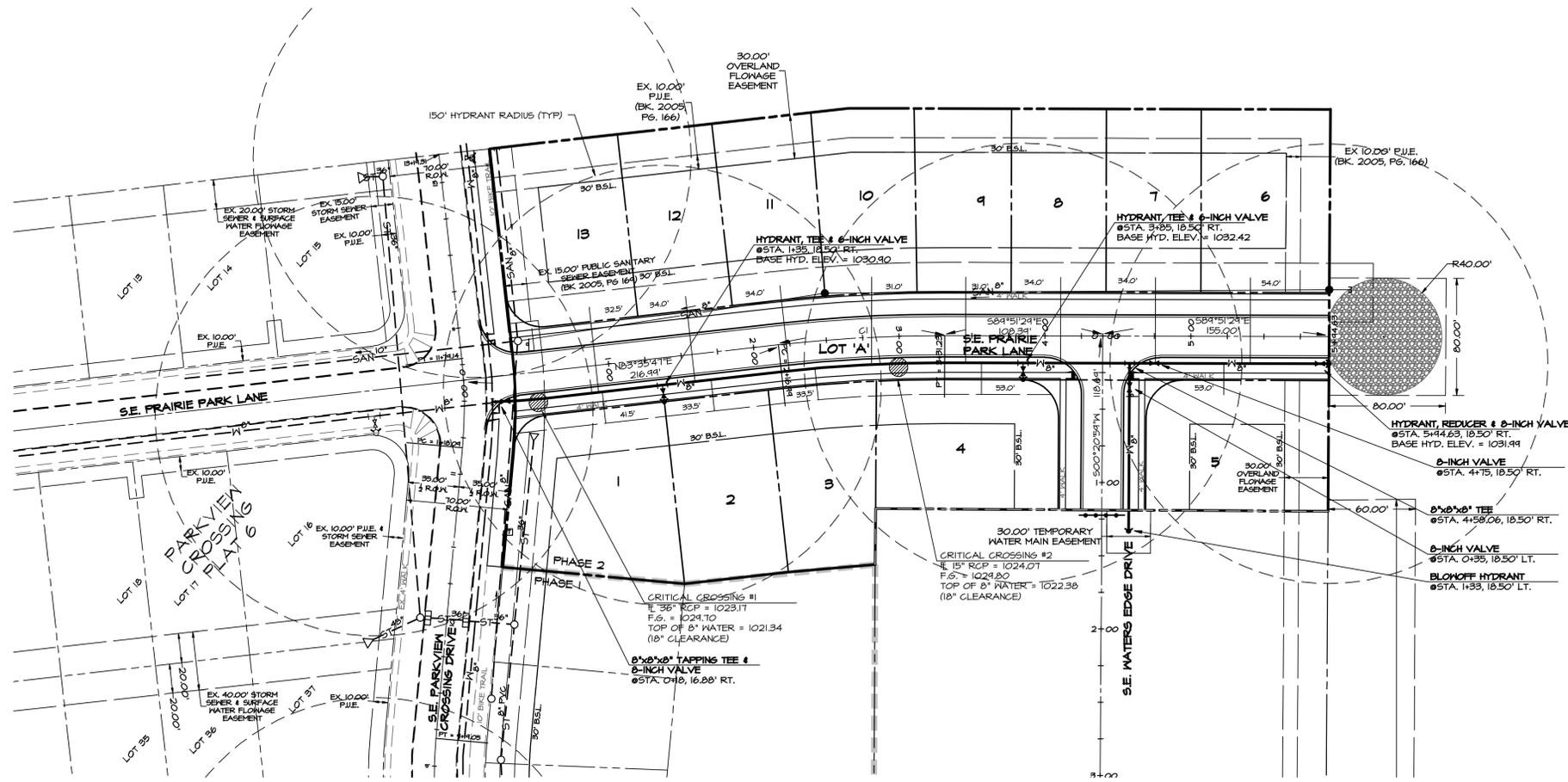
**SERVICE LOCATION DETAIL (TYP.)**  
(SEE EACH LOT ON SPECIFIC PLAN)

NO SCALE

SCALE	5'
50'	

DATE: 02-01-2011  
REVISION: 02-21-2011  
03-02-2011

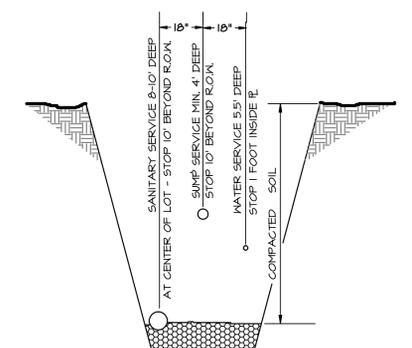
SHEET  
1  
OF 5



- NOTES**
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    - CITY OF IOWA ENGINEERS OFFICE
    - JERRY'S HOMES, INC.
    - CIVIL ENGINEERING CONSULTANTS, INC.
    - IOWA ONE-CALL
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  - THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
  - PIPE MATERIALS: DUCTILE IRON IN ACCORDANCE WITH STANDARD SPECIFICATIONS OR ANNA GROC DR - 10 PVC. INSTALL NO. 10 THIN STANDARD COPPER TRACER WIRE TO SURFACE AT FIRE HYDRANTS, VALVES, AND NEAR DEAD ENDS. CONNECT NEW TRACER TO EXISTING.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
  - THE CONTRACTOR SHALL PROTECT AND BACKFILL AROUND ALL UTILITIES AND STRUCTURES. BACKFILL SHALL BE IN 6-INCH LAYERS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, 4% TO 4% OPTIMUM MOISTURE CONTENT.
  - HYDRANTS, MANHOLE COVERS AND VALVE BOXES SHALL BE SET TO CONFORM TO FINISHED PAVEMENT ELEVATIONS.
  - SERVICES TO BE 1-INCH COPPER, STOP BOXES TO BE MUELLER H-10300 OR EQUAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING THE AS-BUILT LOCATION OF ALL WATER SERVICES AND PROVIDING THIS INFORMATION TO THE ENGINEER.
  - HYDRANTS SHALL BE SET NOT MORE THAN 4 FEET FROM MAIN.
  - IF DISCREPANCY EXISTS BETWEEN THE DETAILED PLANS AND THE QUANTITIES, THE PLANS SHALL GOVERN.
  - AN APPROVED SADDLE SHALL BE USED FOR ALL WATER SERVICE TAPS.

**QUANTITIES**

640 LF.	8-INCH WATER MAIN
2 EA.	HYDRANT, TEE & 6-INCH VALVE
1 EA.	HYDRANT, REDUCER & 8-INCH VALVE
2 EA.	8-INCH VALVE
1 EA.	BLOW-OFF HYDRANT
13 EA.	SERVICES



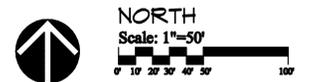
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**SERVICE LOCATION DETAIL (TYP.)**  
(SEE EACH LOT ON SPECIFIC PLAN)

NO SCALE

**LEGEND**

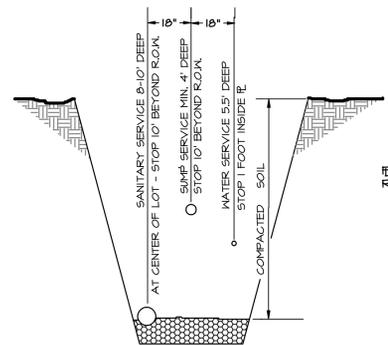
---	EXISTING/PROPOSED	---	FLAT BOUNDARY
---	SAN	---	SANITARY SEWER & SIZE
---	W	---	WATER MAIN & SIZE
---	S	---	STORM SEWER & SIZE
○	MANHOLE	○	MANHOLE
□	STORM INTAKE	□	STORM INTAKE
▽	FIRE HYDRANT	▽	FIRE HYDRANT
▽	VALVE	▽	VALVE



DATE: 02-07-2011  
REVISION: 02-21-2011  
03-02-2011

**SHEET**  
**2**  
**OF 5**

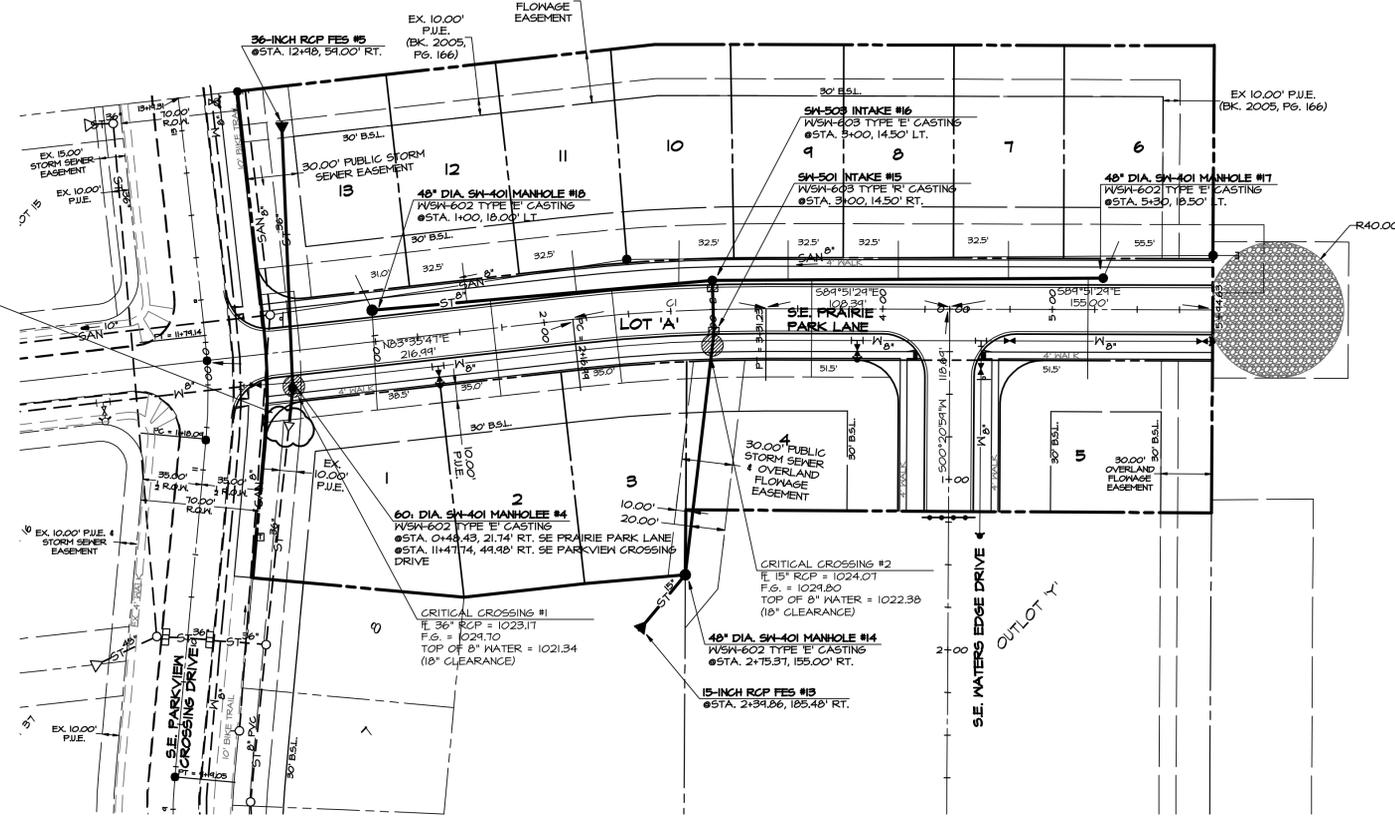
CURVE	CURVE TABLE					
	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C1	6°32'44"	1000.00'	114.24'	57.18'	114.18'	S66°52'09"W



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**SERVICE LOCATION DETAIL (TYP.)**  
(SEE EACH LOT ON SPECIFIC PLAN)

NO SCALE



**NOTES**

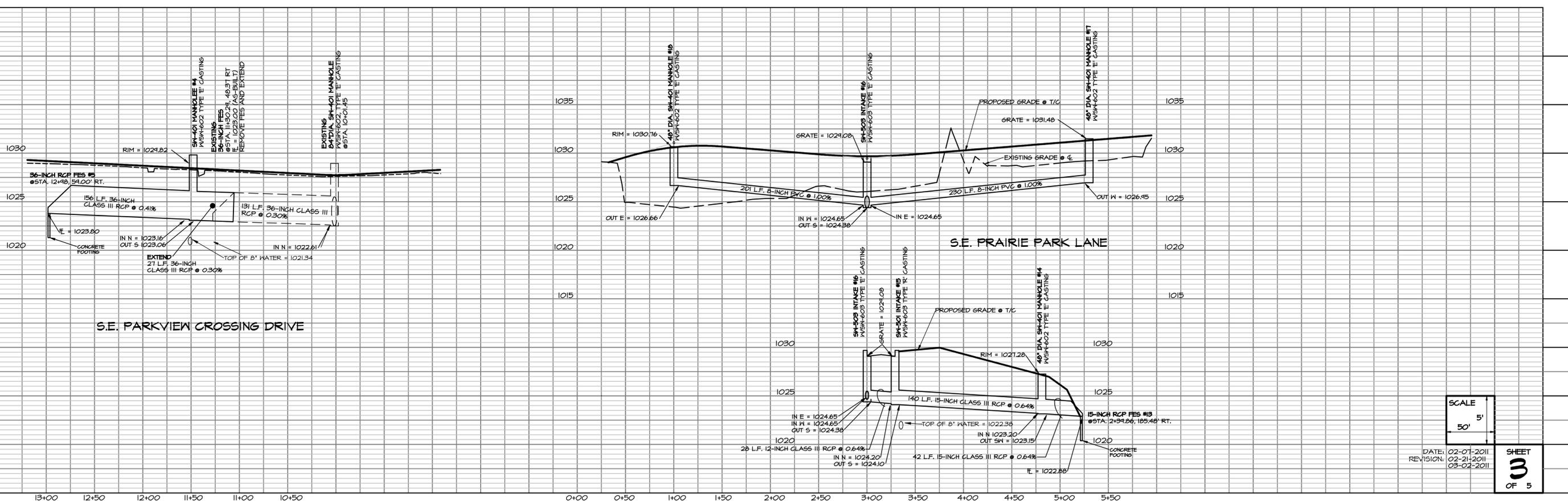
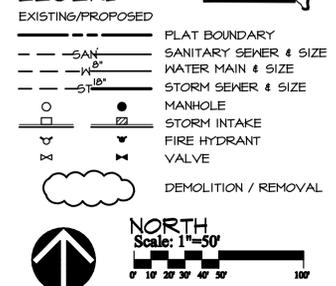
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- CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
  - CITY OF WAUKEE ENGINEERS OFFICE
  - JERRY'S HOMES, INC.
  - CIVIL ENGINEERING CONSULTANTS, INC.
  - IOWA ONE-CALL
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- CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL STORM SEWER SERVICES AND PROVIDE THIS INFORMATION TO THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY FARM TILE DAMAGE DURING CONSTRUCTION AND RECORDING LOCATION OF TILE.
- A GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE OBTAINED BY CONTACTING THE OWNER.
- INTAKE & CASTING TYPES LISTED ARE PER THE CURRENT EDITION OF THE IOWA SJD.A.S. SPECS.
- PROVIDE AFFRON GUARDS & CONCRETE FOOTINGS ON ALL FLARED END SECTIONS. CONTRACTOR SHALL TIE THE LAST THREE PIPE JOINTS AT THE FLARED END SECTION.
- ALL STORM SEWER TO BE CLEANED AND VIDEO TAPED UPON COMPLETION.

**QUANTITIES**

183 L.F.	36-INCH RCP CLASS III
182 L.F.	15-INCH RCP CLASS III
28 L.F.	12-INCH RCP CLASS III
431 L.F.	8-INCH PVC
3 EA.	48" DIA. SH-401 MANHOLE W/SH-602 TYPE 'E' CASTING
1 EA.	60" DIA. SH-401 MANHOLE W/SH-602 TYPE 'E' CASTING
1 EA.	SH-503 INTAKE W/SH-603 TYPE 'E' CASTING
1 EA.	SH-503 INTAKE W/SH-603 TYPE 'R' CASTING
1 EA.	18" DIA. FES W/FOOTING SERVICES
13 EA.	



**LEGEND**



**SCALE**  
5'  
50'

DATE: 02-07-2011  
REVISION: 02-21-2011  
03-02-2011

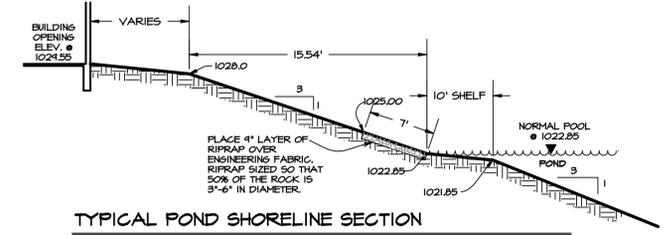
**SHEET**  
3  
OF 5

PLAN & PROFILE - STORM SEWER - SE PRAIRIE PARK LANE - PARKVIEW CROSSING PLAT 9  
JERRY'S HOMES, INC. - 3301 NW 106th CIRCL - URbandALE, IOWA 50322  
CIVIL ENGINEERING CONSULTANTS, INC. 2400 86TH STREET, #12, DES MOINES, IOWA 50322

E6604

**GRADING AND EROSION CONTROL NOTES**

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- CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
  - CITY OF Waukee
  - JERRY'S HOMES, INC.
  - CIVIL ENGINEERING CONSULTANTS, INC.
  - IOWA ONE-CALL
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- CONTRACTOR SHALL STRIP TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED.
- STOCKPILE SUFFICIENT TOPSOIL TO BE RESPREAD ON LAWN AREAS TO AN 8-INCH DEPTH.
- UNLESS GRADING FOR A DESIGNED SWAMP OR LOW POINT AREA, GRADE ALL SITE AREAS TO DRAIN WITHOUT TRAPPING OR PONDING SURFACE WATER WHEN SITE GRADING IS COMPLETE.
- FINAL GRADE ELEVATIONS OF ALL PAVED AREAS SHALL BE WITHIN 0.10 FEET OF PLAN GRADE UNLESS STATED OTHERWISE IN THE IOWA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. LAWN AREAS SHALL BE WITHIN 0.20 FEET OF PLAN GRADE.
- SPOT ELEVATIONS ON PAVED SURFACES ARE TOP OF SLAB ELEVATIONS UNLESS NOTED OTHERWISE.
- CIVIL ENGINEERING CONSULTANTS, INC. IS NOT A GEOTECHNICAL ENGINEER.
- A GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE OBTAINED BY CONTACTING THE OWNER.
- A MINIMUM OF ONE FOOT OF COMPACTED CLAY SOIL LINER SHALL BE PROVIDED IN THE POND BELOW THE PERMANENT POOL ELEVATION. POND SLOPES SHALL BE DISKED & COMPACTED PRIOR TO PLACEMENT OF LINER. AREAS ENCOUNTERING SAND SHALL BE OVEREXCAVATED A MINIMUM OF 2 FEET & UP TO 5 FEET. THESE AREAS SHOULD BE FILLED WITH COHESIVE ENGINEERED COMPACTED FILL. IF SEEPAGE IS ENCOUNTERED ABOVE PERMANENT POOL, AN INTERCEPTOR DRAIN MAY BE REQUIRED. THE NECESSITY FOR THE DRAIN SHALL BE DETERMINED BY THE GEOTECH DURING POND CONSTRUCTION. CONTACT GEOTECH @ 515-466-3015 TO SCHEDULE OBSERVATION & TESTING.
- AN ASBESTUS PLAN SET SHALL BE PROVIDED UPON COMPLETION OF SITE IMPROVEMENTS INCLUDING DIMENSIONS, ELEVATIONS AND SPOT ELEVATIONS FOR ALL OVERLAND FLOWAGE EASEMENTS AT EACH LOCATION WHERE THE EASEMENT CROSSES A PROPERTY LINE, INCLUDING STREET ROW'S.
- ALL DETENTION POND GRADING SHALL BE FIELD VERIFIED BY DESIGN ENGINEER AND ASBESTUS SHALL BE PROVIDED TO THE CITY WITH A LETTER OF CERTIFICATION FROM THE ENGINEER THAT THE POND WAS CONSTRUCTED TO DESIGN.
- THE CONTRACTOR SHALL CERTIFY ON THE ASBESTUS PLAN THAT THE STORMWATER MANAGEMENT FACILITY WAS CONSTRUCTED TO ADDRESS ALL PROPERTIES WITHIN THE DEVELOPMENT.



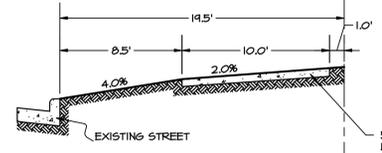
**TYPICAL POND SHORELINE SECTION**  
NO SCALE  
NOTE: ALTERNATIVE SHORELINE PROTECTION MATERIALS MAY BE USED IF DESIRED BY THE DEVELOPER. ANY ALTERNATE MATERIALS WILL NEED TO BE REVIEWED, DESIGNED, & APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

**CONSTRUCTION SCHEDULE**

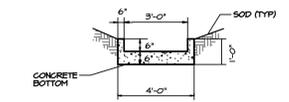
03/01/2011 - 03/12/2011	GRADING
03/12/2011 - 07/30/2011	SEEDING/MULCHING/SILT FENCING
03/12/2011 - 04/12/2011	UTILITY CONSTRUCTION
04/12/2011 - 04/18/2011	PAVING
04/18/2011 - 04/24/2011	FINAL GRADING / SEEDING/ MULCHING/SILT FENCING/POND RIP RAP
04/24/2011 - 05/24/2011	

**BENCHMARK**

CITY OF WAUKEE BENCHMARK LOCATED ON THE BURY BOLT OF THE WATER HYDRANT LOCATED ON THE NW CORNER OF LOT 26, PARKVIEW CROSSING PLAT 6  
ELEVATION= 1025.46

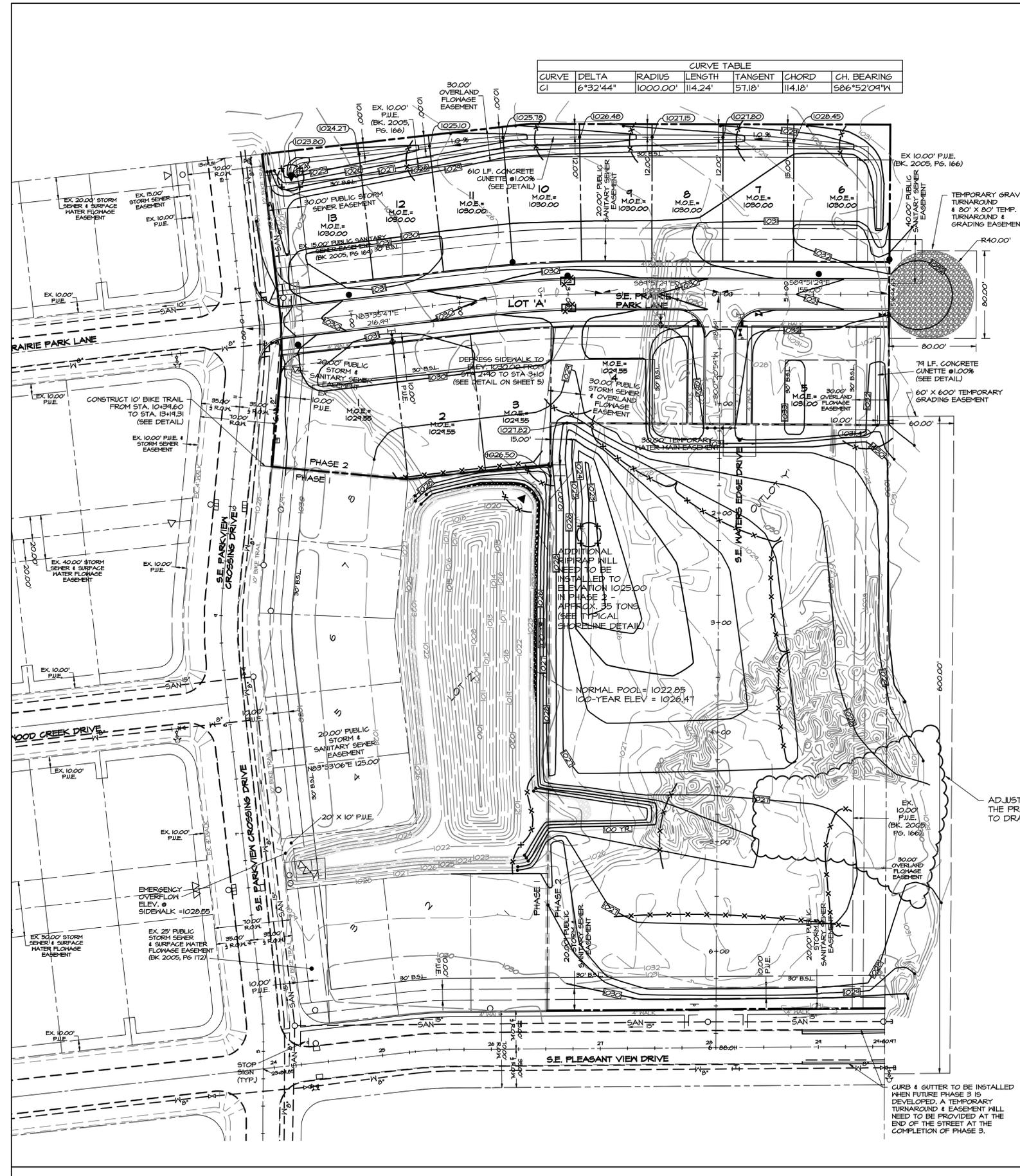


**TYPICAL BIKE TRAIL DETAIL**  
NO SCALE



**CONCRETE CUNNETTE DETAIL**  
NO SCALE  
TOTAL QUANTITY = 664 LF.

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C1	6°32'44"	1000.00'	114.24'	57.18'	114.18'	S86°52'09\"/>



ADJUST GRADES TO ALLOW THE PROPERTY TO THE EAST TO DRAIN TO EXISTING POND.

**LEGEND**

---	EXISTING/PROPOSED
---	PLAT BOUNDARY
---	SANITARY SEWER & SIZE
---	WATER MAIN & SIZE
---	STORM SEWER & SIZE
○	MANHOLE
●	STORM INTAKE
⊕	FIRE HYDRANT
⊕	VALVE
⊕	SILT FENCE

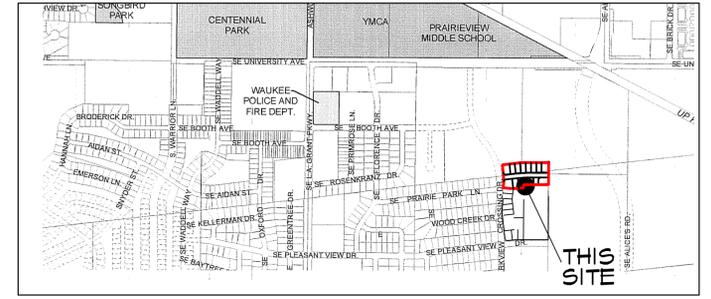


DATE: 02-07-2011  
REVISION: 02-21-2011  
03-02-2011

SHEET  
**4**  
OF 5



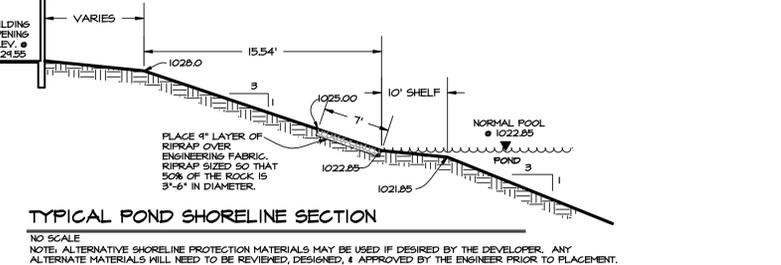
# STORMWATER POLLUTION PREVENTION PLAN PARKVIEW CROSSING FLAT 9 AN ADDENDUM TO PARKVIEW CROSSING FLAT 8. WAUKEE, IOWA



**CONSTRUCTION SCHEDULE**

03/01/2011 - 03/12/2011	GRADING
03/12/2011 - 07/30/2011	SEEDING/MULCHING/SILT FENCING
03/12/2011 - 04/12/2011	UTILITY CONSTRUCTION
04/12/2011 - 04/18/2011	PAVING
04/18/2011 - 04/24/2011	FINAL GRADING / SEEDING / MULCHING/SILT FENCING/POND RIP RAP
04/24/2011 - 05/24/2011	

**BENCHMARK**  
CITY OF WAUKEE BENCHMARK LOCATED ON THE BURY BOLT OF THE WATER HYDRANT LOCATED ON THE N.W. CORNER OF LOT 26, PARKVIEW CROSSING FLAT 8  
ELEVATION = 1025.46



- 6. NON-STORM WATER DISCHARGES**
- WATER MAIN FLUSHING - FLUSHED WATER WILL BE DISCHARGED INTO THE STORM SEWER SYSTEM WHERE, WHEN DISCHARGED, IT WILL UNDERGO EROSION AND SEDIMENT CONTROLS CONSISTING OF:
- SILTATION BASIN
  - ROCK OUTLET PROTECTION (RIPRAP)
  - SILT FENCING
  - EXISTING VEGETATION
  - PETROLEUM STORAGE INCLUDING BUT NOT LIMITED TO FUEL, OIL, HYDRAULIC OIL, WASTE OIL SHALL NOT BE STORED ON SITE.
  - CONCRETE WASHOUT AREAS SHALL CONFORM TO THE BR3 LIST BMP REQUIREMENTS.
  - PORTABLE TOILETS SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION.
- 7. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXACT LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK.**
- 8. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OF APPROPRIATE OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED, IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.**
- 9. STRIP TOPSOIL FROM ALL AREAS WHICH ARE TO RECEIVE STRUCTURAL FILL.**
- 10. AREAS TO RECEIVE FILL TO BE BENCHMARKED.**
- 11. PREPARE BOTTOM OF BENCH FOR FILL BY DIGGING TO A DEPTH OF 6-INCHES AND COMPACT. ANY LOCALIZED AREAS WHICH CANNOT BE SATISFACTORILY COMPACTED OR WHICH SHOW EVIDENCE OF PUMPING ACTION SHALL BE UNDERCUT AND RECOMPACTED WITH ON-SITE FILL.**
- 12. ALL SITE GRADING FILL SHALL BE COMPACTED TO A DENSITY THAT IS NOT LESS THAN 98% STANDARD PROCTOR.**
- 13. ALL AREAS WHICH ARE TO RECEIVE PAVING SHALL HAVE THE TOP 12-INCHES DISCED AND RECOMPACTED TO 98% STANDARD PROCTOR DENSITY.**
- 14. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL MATCH IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS BETWEEN 0.8% AND 1.0% OVER OPTIMUM MOISTURE.**
- 15. MAINTAIN ALL CUT AND FILL AREAS FOR SURFACE DRAINAGE AT ALL TIMES.**
- 16. FINAL GRADINGS WITHIN PAVED AREAS SHALL BE WITHIN 0.1% OF PLAN GRADE, ALL OTHER AREAS TO BE WITHIN 0.2% OF PLAN GRADE.**
- 17. TOPSOIL SHALL BE RESPIREAD TO A MINIMUM THICKNESS OF 6-INCHES ON ALL DISTURBED UNPAVED AREAS.**
- 18. BACKFILL TO TOP OF ALL ROCK SURFACES.**
- 19. ADDITIONAL SILT FENCING MAY BE REQUIRED AFTER ANY FIELD INSPECTION.**
- 20. THIS PLAN IS SUBJECT TO THE POST CONSTRUCTION MAINTENANCE DOCUMENT RECORDED AS PART OF FLAT 8, (RECORDED IN BK 2010, PG 16902 OF THE DALLAS COUNTY RECORDER)**

**SEQUENCE OF MAJOR ACTIVITIES**

- PRE-CONSTRUCTION:** SILT FENCE WILL BE PLACED BY THE CONTRACTOR PRIOR TO BEGINNING GRADING OR CLEARING OPERATIONS. ALONG THE PERIMETER OF THE PROJECT AT LOCATIONS IN WHICH RAINFALL CAN MOVE OPPOSITE VEGETATION IN AREAS NOT COVERED BY THE SILT FENCE. THIS SILT FENCE SHALL BE INSTALLED PRIOR TO PLACE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED. THE TEMPORARY SEDIMENTATION WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THIS SILT FENCE THROUGHOUT THE CONSTRUCTION PERIOD.
- GRADING:** AFTER GRADING OPERATIONS HAVE BEEN COMPLETED, ALL AREAS THAT WILL NOT BE DISTURBED BY SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE SEEDED.
- FINAL GRADING AND SEEDING:** FINAL GRADING SHALL BE COMPLETED AS SOON AS IT IS PRACTICAL. SEEDING SHALL BE COMPLETED WITHIN 10 DAYS OF FINISHED GRADING.
- FINAL STABILIZATION:** FINAL STABILIZATION SHALL COMPLY WITH THE SWPPP PLAN.

**OWNER'S CERTIFICATION**

I, CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE. ALONG WITH THE OWNERS AND OTHER CONTRACTORS AND SUBCONTRACTORS SERVING THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES AT THE IDENTIFIED SITE. I, AND MY ORGANIZATION ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**CONTRACTOR CERTIFICATION**

I, CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE. ALONG WITH THE OWNERS AND OTHER CONTRACTORS AND SUBCONTRACTORS SERVING THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES AT THE IDENTIFIED SITE. I, AND MY ORGANIZATION ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**LEGEND**

- EXISTING/PROPOSED
- PLAT BOUNDARY
- SAN - SANITARY SEWER 4" SIZE
- M - WATER MAIN 6" SIZE
- ST - STORM SEWER 4" SIZE
- O - MANHOLE
- FI - FIRE HYDRANT
- V - VALVE
- S - SILT FENCE

**GENERAL CONTRACTOR**  
NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**SUBCONTRACTOR**  
NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**SUBCONTRACTOR**  
NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**OTHER**  
NAME / TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

**NORTH**  
Scale: 1"=50'  
0 10 20 30 40 50 100'

DATE: 02-07-2011  
REVISION: 02-21-2011  
03-02-2011

**SHEET**  
1  
OF 1

- GRADING AND EROSION CONTROL NOTES**
- ALL CONSTRUCTION (PUBLIC & PRIVATE) SHALL BE IN ACCORDANCE WITH THE HAWKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. CURRENT SPECIFICATIONS ARE AVAILABLE ONLINE AT: [WWW.HAWKEEIOWA.GOV/STDSPEC/2005A.PDF](http://WWW.HAWKEEIOWA.GOV/STDSPEC/2005A.PDF)
  - CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:  
A. CITY OF WAUKEE  
B. JERRY'S HOMES, INC.  
C. CIVIL ENGINEERING CONSULTANTS, INC.  
D. IOWA ONE-CALL
  - THE LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE THE LOCATION OF EXISTING FACILITIES. IF ALL EXISTING FACILITIES ARE SHOWN IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING THIS AREA, AND IOWA ONE CALL, TO DETERMINE THE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
  - THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
  - CONTRACTOR SHALL STRIP TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED.
  - STOCKPILE SUFFICIENT TOPSOIL TO BE RESPIREAD ON LAWN AREAS TO AN 8-INCH DEPTH.
  - UNLESS GRADING FOR A DESIGNED SUMP OR LOW POINT AREA, GRADE ALL SITE AREAS TO DRAIN WITHOUT TRAPPING OR PONDING SURFACE WATER WHEN SITE GRADING IS COMPLETE.
  - FINAL GRADE ELEVATIONS OF ALL PAVED AREAS SHALL BE WITHIN 0.10 FEET OF PLAN GRADE UNLESS STATED OTHERWISE IN THE HAWKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. LAWN AREAS SHALL BE WITHIN 0.20-FEET OF PLAN GRADE.
  - SPOT ELEVATIONS ON PAVED SURFACES ARE TOP OF SLAB ELEVATIONS UNLESS NOTED OTHERWISE.
  - CIVIL ENGINEERING CONSULTANTS, INC. IS NOT A GEOTECHNICAL ENGINEER.
  - A GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE OBTAINED BY CONTACTING THE OWNER.
  - A MINIMUM OF ONE FOOT OF COMPACTED CLAY SOIL LINER SHALL BE PROVIDED IN THE POND BELOW THE PERMANENT POOL ELEVATION. POND SLOPES SHALL BE DISKED & COMPACTED PRIOR TO PLACEMENT OF LINER. AREAS ENCOUNTERING SAND SHALL BE OVEREXCAVATED A MINIMUM OF 2 FEET & 1/2 TO 5 FEET. THESE AREAS SHOULD BE FILLED WITH COHESIVE ENGINEERED CONSTRUCTED FILL. IF GEOTECHNICAL ASSESSMENT OF PERMANENT POOL, AN INTERCEPTOR DRAIN MAY BE REQUIRED. THE NECESSITY FOR THE DRAIN SHALL BE DETERMINED BY THE GEOTECHNICAL DURING POND CONSTRUCTION. CONTACT GEOTECH # 515-486-3019 TO SCHEDULE OBSERVATION & TESTING.
  - AN ASBESTUS PLAN SET SHALL BE PROVIDED UPON COMPLETION OF SITE IMPROVEMENTS INCLUDING DIMENSIONS, ELEVATIONS AND SLOPES. EACH LOCATION WHERE THE EASEMENT CROSSES A PROPERTY LINE, INCLUDING STREET R.O.M.'S.
  - ALL DETENTION POND GRADINGS SHALL BE FIELD VERIFIED BY DESIGN ENGINEER AND ASBESTUS SHED TO BE FILED WITH A LETTER OF CERTIFICATION FROM THE ENGINEER THAT THE POND WAS CONSTRUCTED TO DESIGN.
  - THE CONTRACTOR SHALL NOTIFY THE CITY OF WAUKEE IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OF APPROPRIATE OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED, IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

- STORM WATER POLLUTION PREVENTION PLAN**
1. SITE DESCRIPTION/APPLICANT/SCHEDULE
- OWNER/APPLICANT: JERRY'S HOMES, INC., 3301 NW 106TH ST, URBANDALE, IOWA 50222, (515-270-5942)
  - LOCATION: PART OF SECTION 4, T18N R24W HAWKEE
  - NATURE OF CONSTRUCTION ACTIVITY: GRADING AND CONSTRUCTION OF A SINGLE-FAMILY DEVELOPMENT
  - TOTAL SITE AREA = 10.36 ACRES
  - AREA TO BE DEVELOPED = 4.1 ACRES
  - ESTIMATED DATE WORK IS TO COMMENCE: SPRING 2011
  - ESTIMATED DATE WORK IS TO BE COMPLETED: SUMMER 2011
2. CONTROLS
- EROSION AND SEDIMENT CONTROLS
  - STABILIZATION PRACTICES
  - EXISTING VEGETATION IS PRESERVED WHENEVER POSSIBLE.
  - PERMANENT SEEDING AND MULCHING THROUGHOUT CONSTRUCTION.
  - VEGETATIVE BUFFER STRIPS THROUGHOUT PROJECT.
  - PROTECTION OF TREES AND PRESERVATION OF NATURAL VEGETATION WHEREVER POSSIBLE.
  - STRUCTURAL PRACTICES
  - ROCK OUTLET PROTECTION
  - SILT FENCING
  - STORM WATER MANAGEMENT
  - DRAINAGE SHALES FOR OPEN VEGETATED SHALES AND NATURAL DEPRESSIONS.
  - INFILTRATION OF RAINFALL ON SITE
  - VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS TO PROVIDE NON-EROSIVE VELOCITY FLOWS.
  - WASTE DISPOSAL
  - ALL MATERIAL WASTES MUST BE REMOVED FROM THE SITE.
  - OFF-SITE VEHICLE TRAILING OR SEDIMENT SHALL BE MINIMIZED.
  - STABILIZE THE ENTRANCE WITH 8-INCHES OF LIMESTONE.
  - TOTAL COMPLIANCE WITH APPROPRIATE WASTE DISPOSAL REGULATIONS.
  - CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETE AND FINAL STABILIZATION HAS BEEN REACHED.
3. CONTRACTORS
- THE GRADING CONTRACTOR SHALL HAVE THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE MEASURES CONTAINED IN THIS PLAN.
- CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT THE SITE RELATING TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. SEE CERTIFICATION THIS SHEET.
- PERSONS ACCOMPLISHING WORK UNDER THIS PERMIT:
- |          |       |
|----------|-------|
| NAME:    | _____ |
| ADDRESS: | _____ |
| PHONE:   | _____ |
| NAME:    | _____ |
| ADDRESS: | _____ |
| PHONE:   | _____ |
| NAME:    | _____ |
| ADDRESS: | _____ |
| PHONE:   | _____ |
4. IMPLEMENTATION / MAINTENANCE
- MAINTAIN EFFECTIVE OPERATING CONDITIONS OF ALL PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.
- PRIOR TO INITIAL GRADING, RESTRICTED ACCESS SHALL BE USED TO PROTECT UNDISTURBED AREAS.
  - PRIOR TO MASS GRADING, CONSTRUCT DIVERSION DRAINAGE SHALES ON THE UPHILL SIDES OF THE DISTURBED AREA TO DIVERT SPILL RAINFALL FROM EXPOSED AREAS.
  - DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
  - AFTER INITIAL GRADING, PRIOR TO UTILITY CONSTRUCTION, ALL DISTURBED AREAS OUTSIDE THE PROPOSED RIGHT-OF-WAYS ARE TO HAVE TEMPORARY SEEDING AND MULCHING. CONTRACTORS AND SUBS ARE TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION AND TREES WITHIN THE SITE.
  - TEMPORARY EARTH FILLS SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION.
  - ALL INTERSECTIONS AND MANHOLES TO HAVE SILT FENCE AROUND THEM PRIOR TO PAVING AND INLET FILTERS AFTER PAVING. THESE FILTERS SHALL REMAIN IN PLACE UNTIL THE SITE HAS A PERMANENT GROUND COVER.
  - ALL INTERSECTIONS SHALL BE COVERED DURING CONSTRUCTION TO PREVENT SEDIMENTATION DEPOSITS WITHIN THE STORM SEWER UNTIL THE SITE HAS A PERMANENT GROUND COVER. THE COVER SHALL BE CLEANED AFTER EVERY RAIN.
  - ANY OIL OR GREASE TRAPPED OR DROPPED ON TO ADJOINING RIGHT-OF-WAYS AND PROPERTY SHALL BE CLEANED UP BY THE CONTRACTOR BY THE END OF THE WORK DAY OR PRIOR TO ANY RAIN EVENT. EARTH RAMPS SHALL NOT BE CONSTRUCTED IN THE STREET CUTTER.
  - MATERIAL OR EQUIPMENT STORAGE AREAS MUST BE WITHIN THE LIMITS OF SOIL DISTURBANCE ACTIVITY. THESE AREAS SHALL BE INSPECTED FOR POTENTIAL POLLUTANTS ENTERING THE SYSTEM.
  - THE TEMPORARY SEDIMENTATION BASIN SHALL BE INSPECTED AND MAINTAINED UNTIL SUCH TIME AS ALL THE SITE IS STABILIZED. AT THAT TIME THE BASIN CAN BE CONVERTED TO A STORM WATER DETENTION FACILITY.
  - DURING CONSTRUCTION IT BECOMES EVIDENT THAT A DISTURBED AREA WILL NOT BE DISTURBED FOR 21 DAYS, IT SHALL BE SEED BY DAY 1.
  - PERMANENT SEEDING AND MULCHING TO BE DONE IMMEDIATELY AFTER FINAL GRADING.
  - ANY FAILED AREA OF SEEDING SHALL BE RESEED. - IN THE EVENT THAT SEEDING/MULCHING DOES NOT OCCUR PRIOR TO WINTER, ALL DISTURBED AREAS SHALL BE MULCHED.
  - SILT FENCING SHALL BE CLEANED WHEN THEY HAVE LOST 50% OF THEIR CAPACITY.
  - DRAINAGE SHALES REMAIN UNDISTURBED.
  - ROCK OUTLET PROTECTION SHALL REMAIN INTACT.
  - PERMANENT FILL PLACEMENT OR SINGLING SHALL BE INSTALLED AS SOON AS POSSIBLE BUT NOT LONGER THAN SEVEN (7) DAYS AFTER FINAL GRADING IS COMPLETED. REPLANTING MAY BE REQUIRED TO ENSURE ADEQUATE VEGETATIVE COVER IS ESTABLISHED. ADEQUATE VEGETATIVE COVER IS CONSIDERED TO BE AT LEAST 70% COVERAGE OF THE SOIL SURFACE BY 18 MONTH CONDITIONS TO MINIMIZE EROSION.
  - SOIL SHALL BE WATERED DURING DRY, WINDY CONDITIONS TO MINIMIZE EROSION.
  - WORK REQUIRING ENTERING AND LEAVING THE SITE COVER COUNTY ROADWAYS INCLUDING MATERIAL DELIVERY AND MOVEMENT OF EQUIPMENT SHALL NOT BE PERMITTED DURING PERIODS WHEN THE GROUND IS EXPOSED TO UNUSUAL SOFT AND WEAR AND EROSION BY VEHICLE IS A CERTAINTY.
  - SOIL STOCKPILES SHALL BE STABILIZED WITH VEGETATION OR COVERED. HOUSING MAY BE REQUIRED IF THE VEGETATION BECOMES A MISFEASANCE.
5. INSPECTIONS
- QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.25 INCHES OR GREATER.
  - INSPECT SITE FOR EVIDENCE OF, OR THE POTENTIAL OF, POLLUTANTS ENTERING THE DRAINAGE SYSTEM FROM STORED MATERIALS.
  - OBSERVE EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE THAT THEY ARE OPERATING CORRECTLY, REPAIR AND REPLACE AS NECESSARY.
  - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
  - INSPECT DISCHARGE LOCATIONS TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO ADJOINING WATERS.
  - ANY MODIFICATIONS TO THE PLAN AS A RESULT OF AN INSPECTION SHALL BE IMPLEMENTED WITHIN 1 CALENDAR DAY.
  - AN INSPECTION REPORT SHALL BE PREPARED AND RETAINED AS PART OF THE PREVENTION PLAN UNTIL PROJECT TERMINATION THIS REPORT SHALL INCLUDE THE FOLLOWING:
    - A SUMMARY OF THE SCOPE OF THE INSPECTION.
    - QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
    - MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE PREVENTION PLAN.
    - ANY ACTIONS TAKEN.
    - SIGNATURE.
  - THE REPORTS SHALL CONFORM TO THE STANDARDS SET BY THE IOWA DNR. COPIES OF THESE REPORTS SHALL BE FORWARDED TO THE OWNER.
  - THE CONTRACTOR IS TO TAKE NECESSARY ACTIONS TO CORRECT DEFICIENCIES FOUND DURING INSPECTIONS AS SOON AS PRACTICABLE BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER THE INSPECTION.

