

CITY OF ANN ARBOR

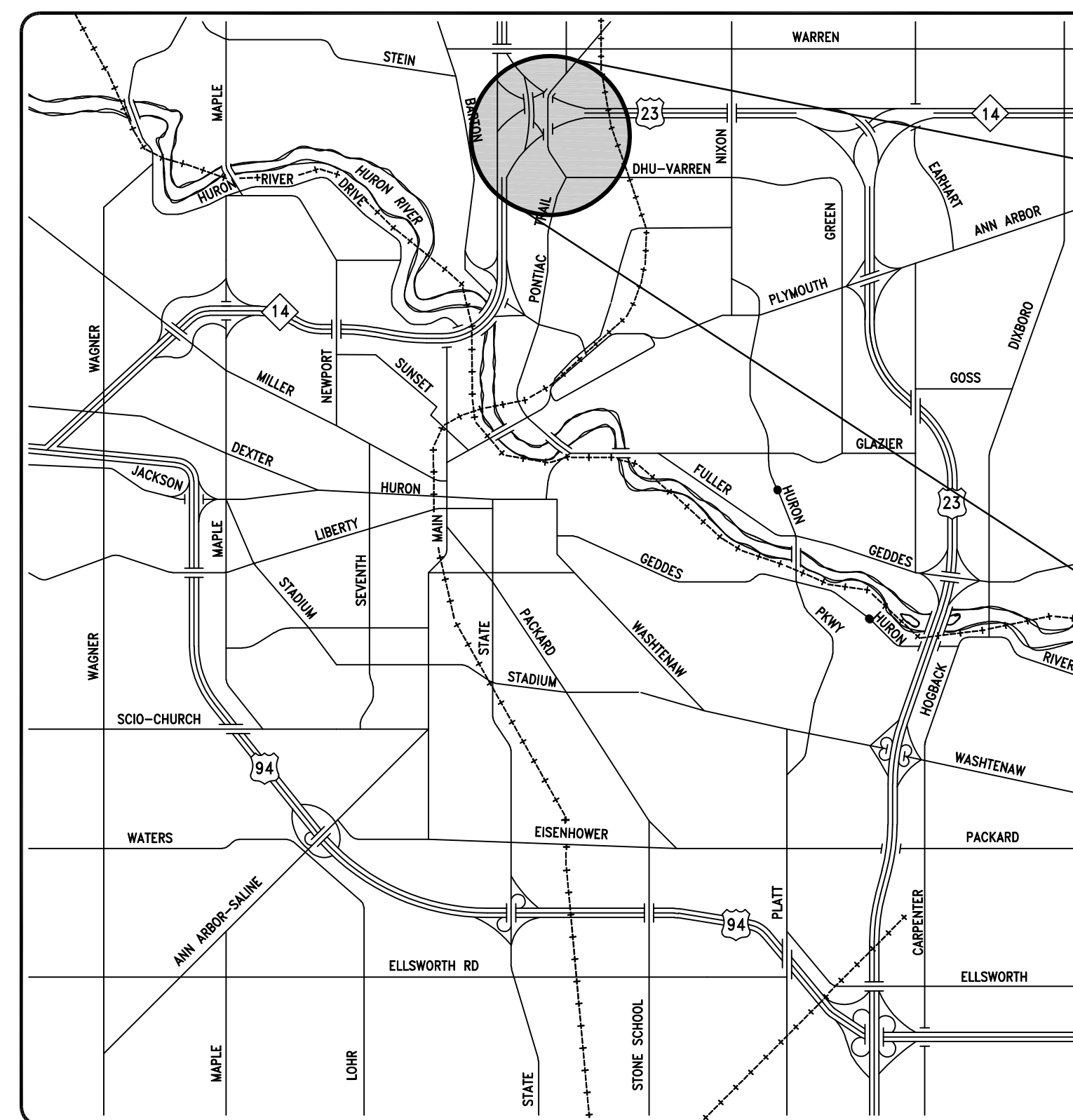
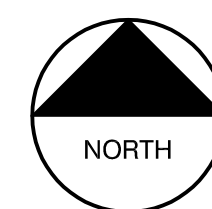
FIELD OPERATIONS

OLSON PARK

IRRIGATION IMPROVEMENTS

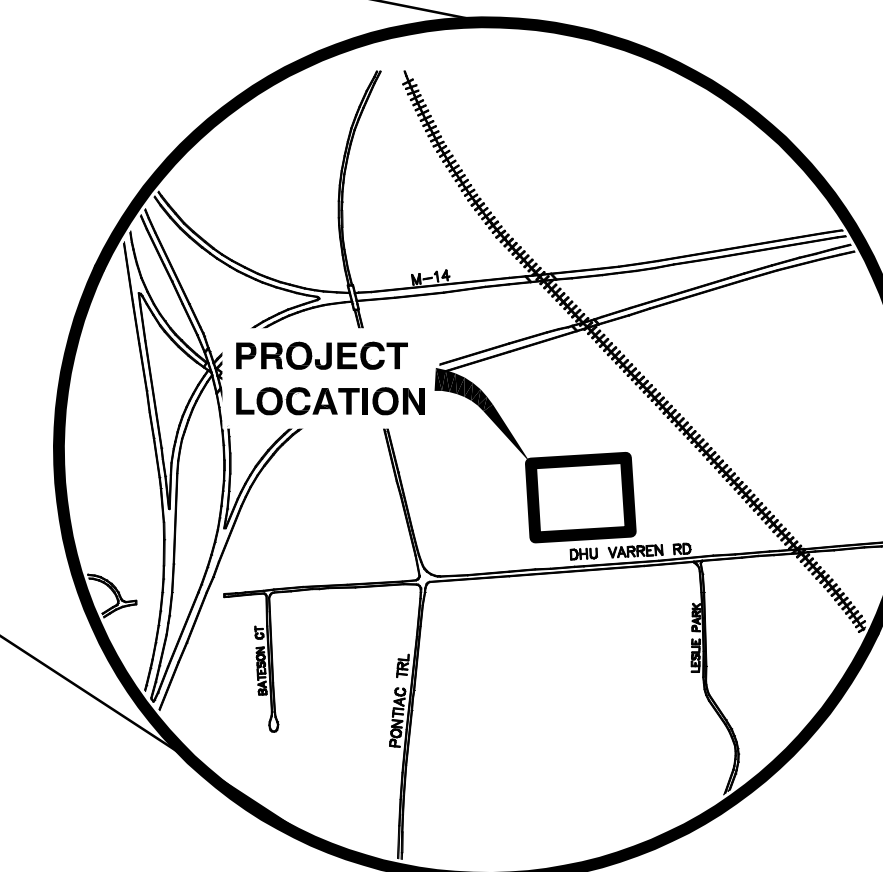
JANUARY 2015
 CITY ITB No. 4359
 STANTEC FILE No. 2075128410

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THESE PERMIT FEES.	
PERMIT	ISSUING AUTHORITY
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT
WELL PERMIT	WASHTENAW COUNTY



VICINITY MAP

SHEET INDEX		
SHEET	DRAWING No.	TITLE
1	G-01	COVER SHEET
2	G-02	GENERAL NOTES AND LEGEND
3	G-03	STANDARD DETAILS SHEET
4	C-01	SITE AND IRRIGATION PLAN



LOCATION MAP

THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT-OF-WAY FOR THIS PROJECT		
PUBLIC UTILITIES	OWNER	CONTACT
WATER SEWER STORM	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	DAN WOODEN (734) 794-6350 MARK COZART (734) 794-6350 KEVIN ERNST (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
FORESTRY		STEVE GOEBEL (734) 794-6364
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 17150 ALLEN ROAD MELVINDALE, MI 48122	JACK WYHATT (313) 701-1355
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	BRIAN BERRY (734) 996-2135
PHONE	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE.

THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.



Know what's **Below.**
CALL before you dig.

PREPARED BY:



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PREPARED UNDER THE SUPERVISION OF

GARY SACHARSKI, P.E., - MI LICENSE No. 47491
 PROJECT ENGINEER

01/06/2015

DATE

ENGINEER'S SEAL

CITY DEPARTMENTAL REVIEW							DRAWING No. 2075128410 - G-01
SURVEY	REVIEW ENGINEER	FIELD OPERATIONS	C.E.S. SUPERVISOR	TRAFFIC	SOIL EROSION	STORM WATER/FLOODPLAIN	
							SHEET No. 1 OF 4

PROJECT NAME; OLSON PARK IMPROVEMENTS - BID No. 4359

EXISTING		EXISTING	
WATER SYMBOLS	MISC. SYMBOLS	UTILITY LINETYPES	
FIRE HYDRANT GATE VALVE IN BOX GATE VALVE IN WELL STOP BOX WATER VAULT WELL	UNKNOWN MANHOLE TELEPHONE MANHOLE TELEPHONE RISER GAS VALVE GAS VENT GAS BOX ELECTRICAL RISER TRANSFORMER UTILITY POLE LAMP POLE GUY ANCHOR GUY POLE MONITORING WELL MAILBOX SOIL BORING	w WATER MAIN r STORM SEWER s SANITARY SEWER g GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREE LINE WETLAND	
STORM SYMBOLS		HATCHING	
CATCH BASIN (SO) CATCH BASIN (RD) STORM MANHOLE NON-CURB CATCH BASIN (SO)		ASPHALT CONCRETE GRAVEL WETLAND	
SANITARY SYMBOLS		TRAFFIC SYMBOLS	
SANITARY MANHOLE CLEAN-OUT		POST PEDESTRIAN SIGNAL SIGN HAND HOLE ORNAMENTAL LIGHT FLOOD LIGHT	
VEGETATION SYMBOLS		SURVEY SYMBOLS	
TREE (DECIDUOUS) TREE (CONIFEROUS) STUMP SHRUB (DECIDUOUS)	TRAVERSE POINT BENCHMARK IRON PIPE MON BOX		

PROPOSED		PROPOSED	
WATER SYMBOLS	MISC. SYMBOLS	UTILITY LINETYPES	
HYDRANT (PROFILE) HYDRANT (PLAN) WATER GATE WELL WATER GATE VALVE WATER STOP BOX WATER VAULT		WATER MAIN STORM SEWER SANITARY SEWER MISC. LINETYPES BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD FENCE SILT FENCE LOT/UNIT PHASE LINE CURB TEMPORARY GRADING PERMIT WATER EASEMENT STORM EASEMENT SANITARY EASEMENT R.O.W.	
STORM SYMBOLS		HATCHING	
INLET DOUBLE INLET INLET JUNCTION CHAMBER ROUND CATCH BASIN STORM MANHOLE DRAIN ARROW FLARED END SECTION (PLAN) FLARED END SECTION (PROFILE)		ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL	
SANITARY SYMBOLS		VEGETATION SYMBOLS	
SANITARY MANHOLE CLEAN-OUT		TREE (DECIDUOUS) TREE (CONIFEROUS)	
TRAFFIC SYMBOLS			
BARREL SIGN PUSH BUTTON DETECTABLE WARNING			

CONSTRUCTION NOTES:

- DRIVEWAYS AND ENTRANCES TO BUILDINGS AND PROPERTY SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
- THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- LOCATION AND DEPTH OF EXISTING UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF CONFLICT UTILITIES ACCORDINGLY. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY.
- DURING NON-WORKING HOURS NO TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".
- THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAIL SPECIFIED ON PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT.
- ALL CURB, SIDEWALK, AND DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS DONE.
- EXISTING STREET NAME, GUIDE, AND REGULATOR SIGNS, AND MAILBOXES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN "GENERAL CONDITIONS".
- CONTRACTOR IS FULLY RESPONSIBLE FOR THE COORDINATION AND INSTALLATION OF THE CONTROL WIRING FROM THE EXISTING IRRIGATION CONTROLLER TO THE WELL PUMP STARTER.
- ALL TREES WITHIN THE PARK SHALL BE PROTECTED FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
- THE LOCATION OF THE EXISTING IRRIGATION SYSTEM IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING IRRIGATION HEADS, PIPING AND VALVES PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY TURF AREAS THAT ARE DAMAGED DURING CONSTRUCTION. IF THE DAMAGED TURF IS WITHIN THE SOCCER FIELDS, IT MUST BE REPLACED WITH SOD.

SOIL EROSION CONTROL NOTES:

NOTE: A SOIL EROSION CONTROL IS NOT REQUIRED BECAUSE THE PROJECT IS NOT WITHIN 500 FEET OF A WATER BODY, AND IS LESS THAN 1 ACRE IN SIZE. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY EROSION CONTROL MEASURES SHOULD CIRCUMSTANCES WARRANT THEM DUE TO WEATHER, CONSTRUCTION OR OTHER REASONS, OR IF THE OWNER OR ENGINEER REQUIRE THEM.

GENERAL:

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE OWNER, PROJECT ENGINEER, OR THE CITY OF ANN ARBOR. THE CONTRACTOR IS REQUIRED TO OBTAIN A SOIL EROSION CONTROL PERMIT ANYTIME THE DISTURBED AREA EXCEEDS 1 ACRE.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CHAPTER 63, AND THE LAWS OF THE STATE OF MICHIGAN.
- DAILY OR AFTER STORM EVENTS INSPECTIONS SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE OWNER/PROJECT ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY AND WITHOUT ADDITIONAL COST TO THE OWNER.
- EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR WATERWAYS.
- ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROPERTY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL EMPLOY A MECHANICAL STREET SWEEPER AT NO ADDITIONAL COST TO THE OWNER.
- RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE DONE WITHIN 5 DAYS OF THE COMPLETION OF FINAL GRADE.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR CHLORIDE AS REQUIRED OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME UPON AUTHORIZED COMPLETION OF THE PROJECT. COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THEM.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL:

- INSTALL SILT FENCE, TREE PROTECTION FENCING AND INLET FILTERS ON EXISTING STORM INLETS PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- CONTRACTOR TO CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT.
- STRIP AND CLEAR - MAINTAIN EROSION CONTROL MEASURES AROUND TEMPORARY STOCK PILES.
- ROUGH GRADE.
- ENSURE ALL SOIL IS STABILIZED. REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES.

TEMPORARY SEEDING:

- SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
- ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

ROAD:

- DURING CONSTRUCTION, ALL ROADS SHALL BE PROTECTED FROM UNVEGETATED AREAS WASHING ONTO ROAD SURFACE BY PLACEMENT OF SILT FENCE BEHIND CURB OR A 10 FOOT WIDE STRAW MULCH BLANKET BEHIND CURB OR OTHER APPROVED METHOD AND/OR AS SHOWN ON THE PLANS.
- DURING CONSTRUCTION OF ANY PORTION OF THE PROJECT, ADJOINING ROADS SHALL BE MAINTAINED FREE OF DIRT, SILT AND CONSTRUCTION DEBRIS. CONTRACTOR REQUIRED TO USE VACUUM SWEEPER EQUIPMENT FOR CLEANING CONSTRUCTION SITE AND ADJOINING ROADS. THE USE OF BROOM SWEEPER IS NOT PERMITTED.

CATCH BASIN/MANHOLE PROTECTION:

- PROTECT STORM SEWER CATCH BASINS WITH APPROVED INLET FILTERS IF REQUIRED.



	G/S	G/S	
	BWA	BWA	
	01/06/15	10/10/14	
	BID SET	60% REVIEW SET	
2	1		
			DESCRIPTION
			REV.

PREPARED BY:



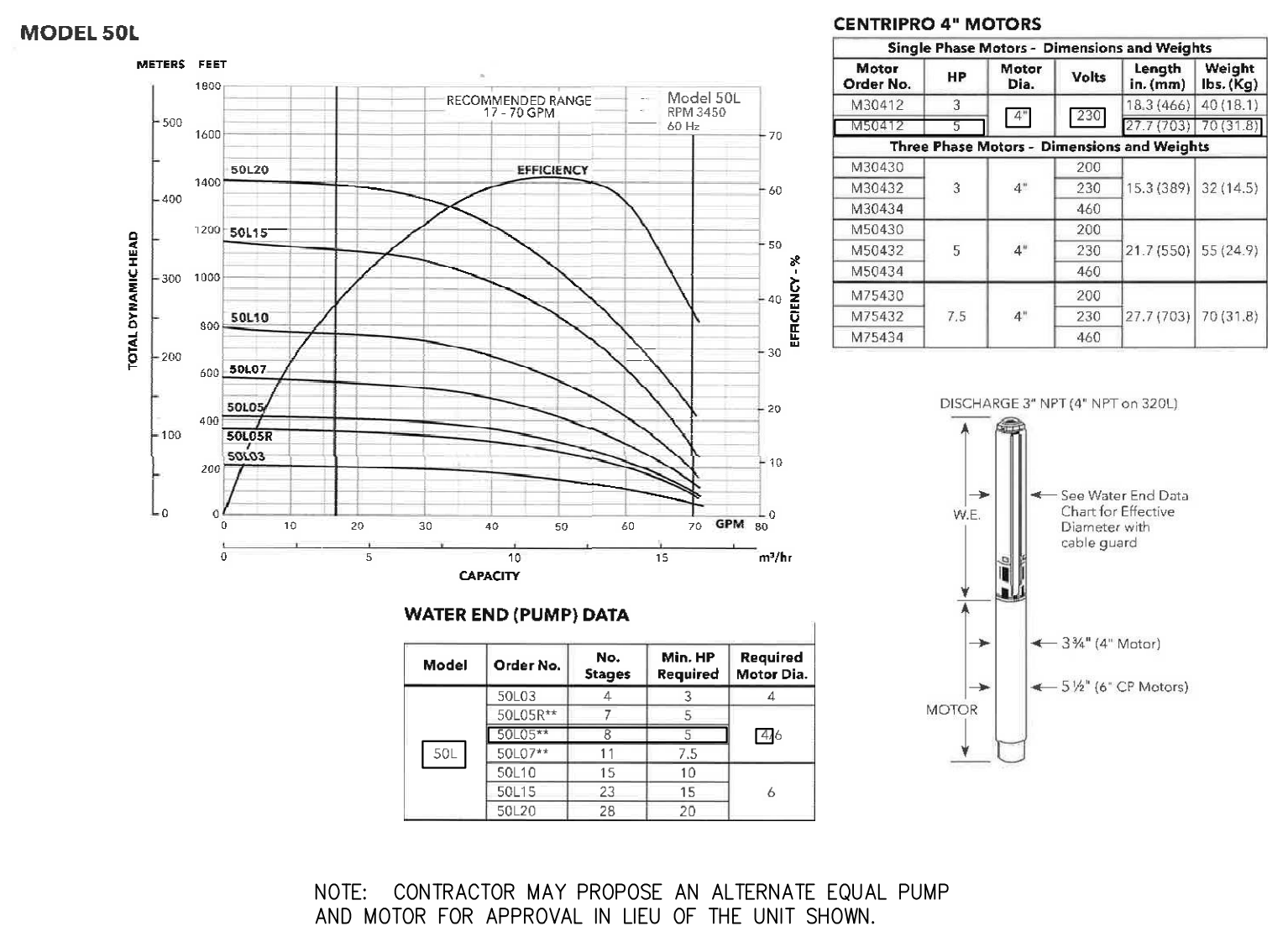
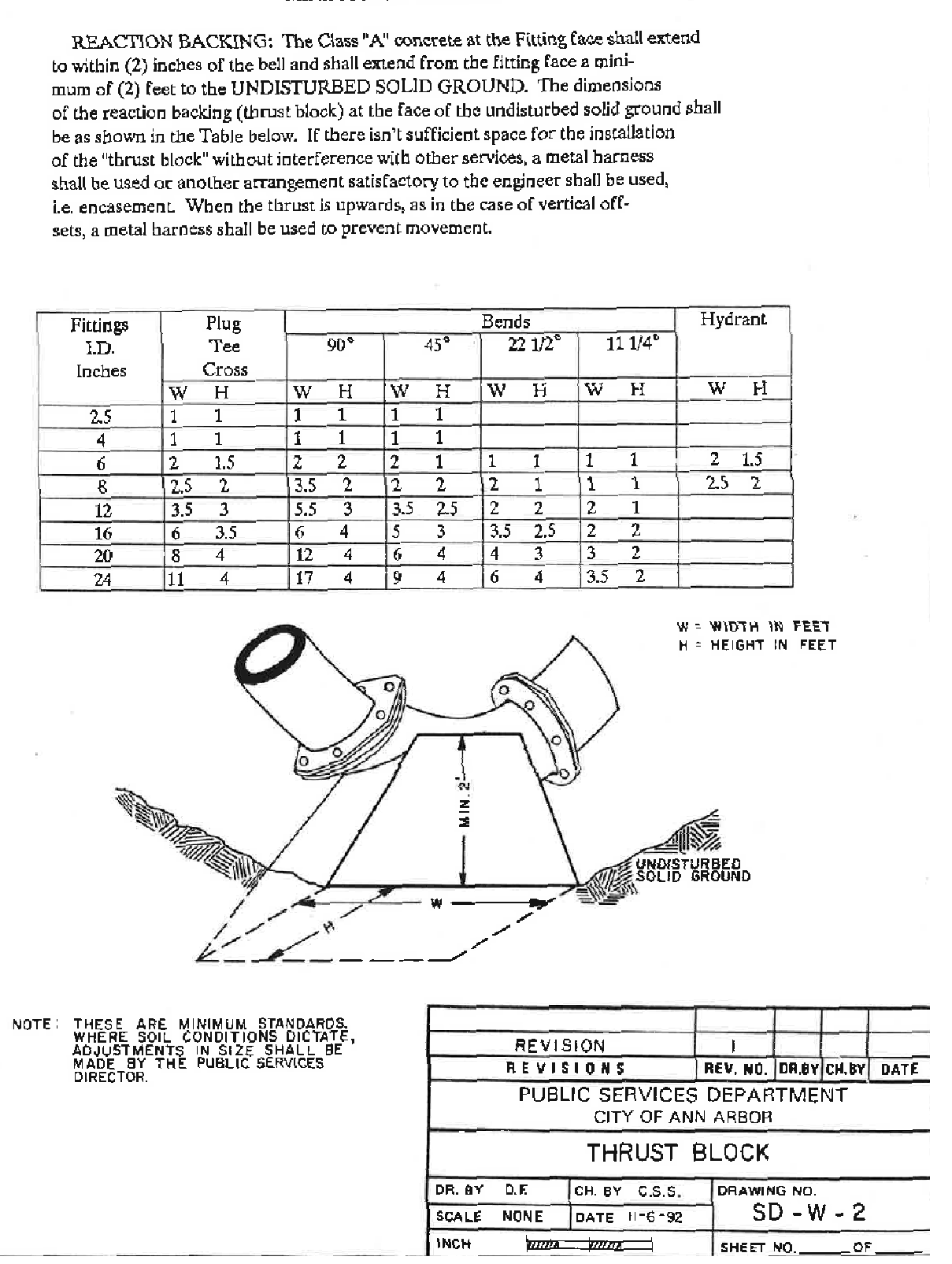
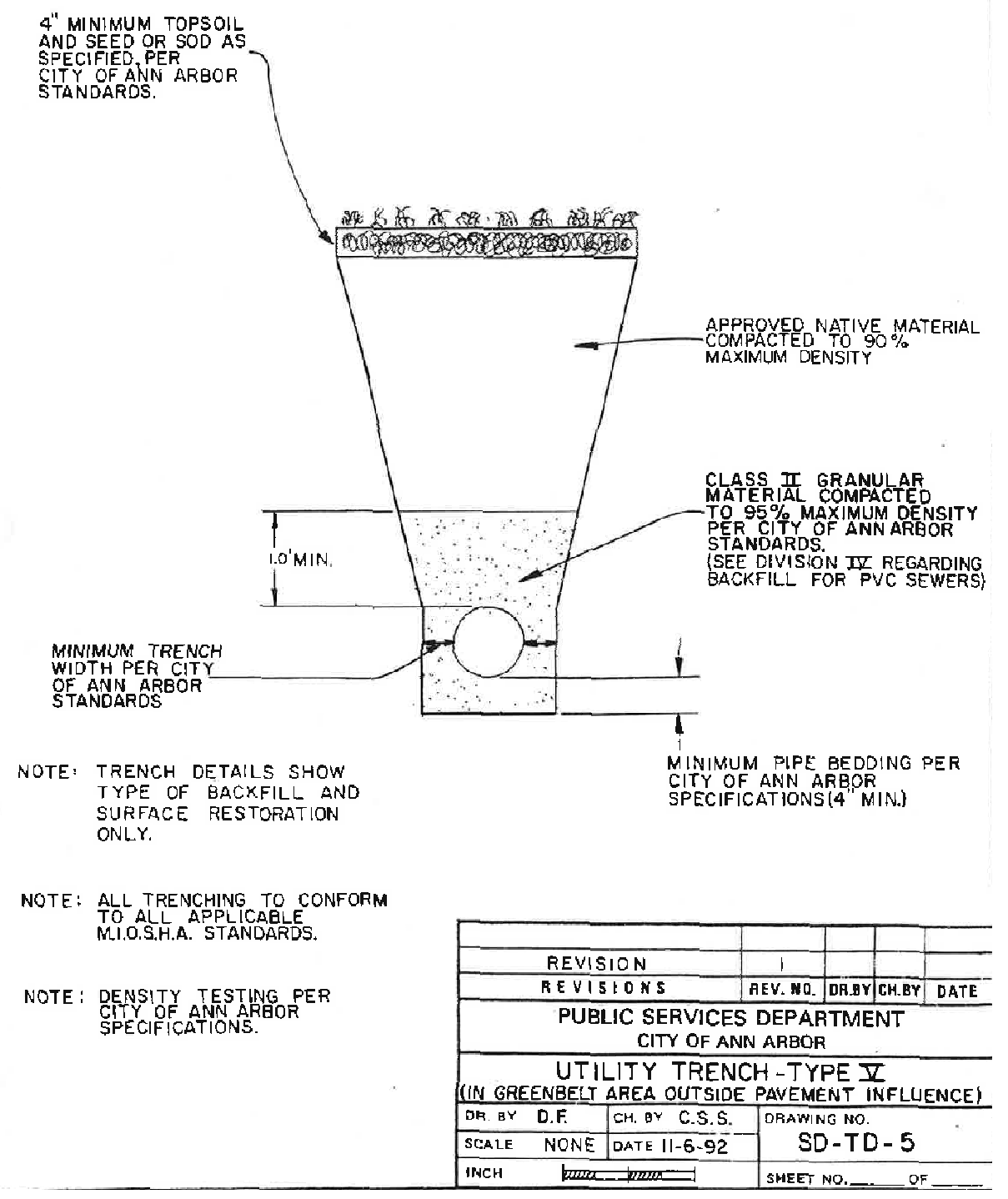
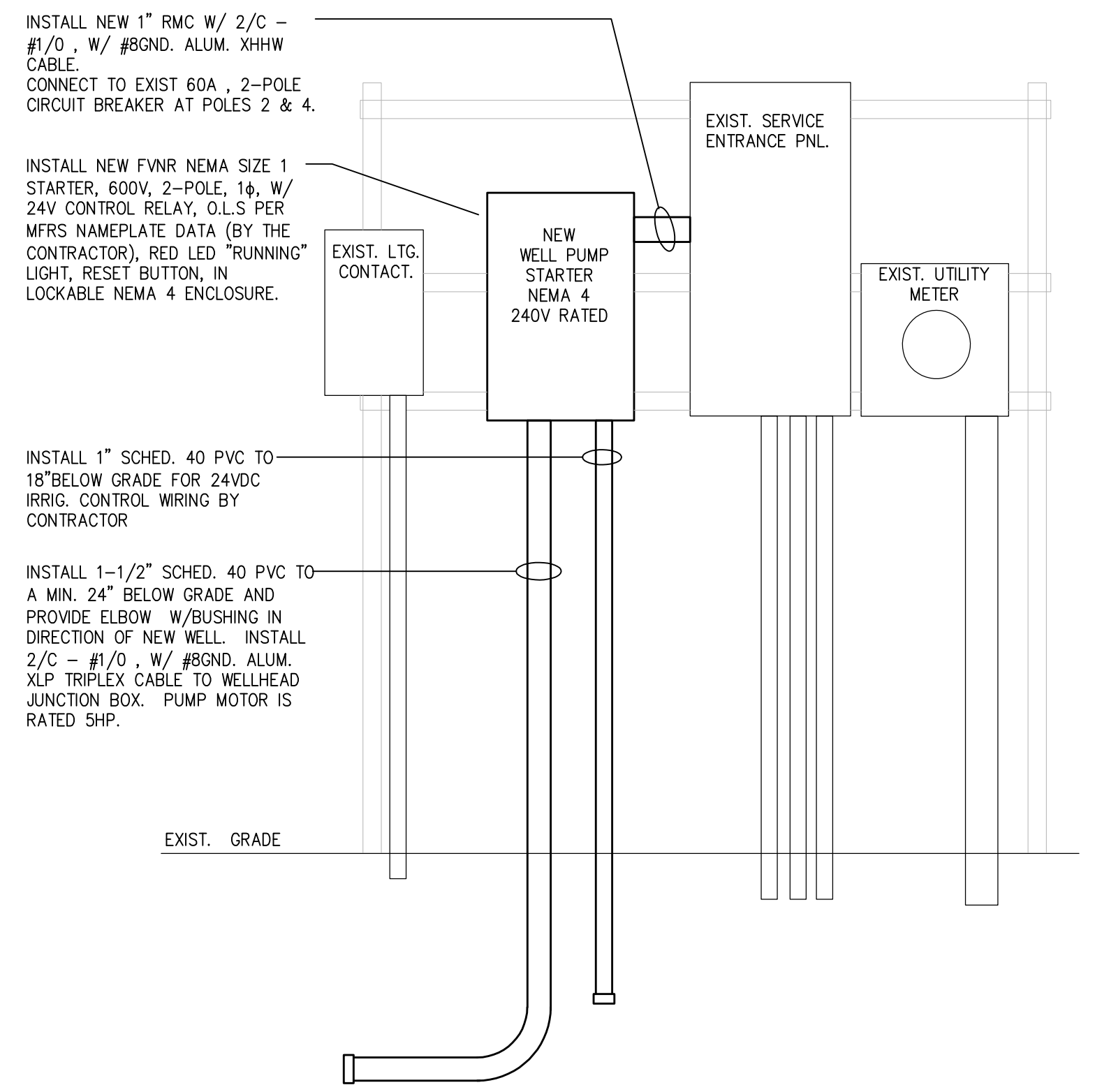
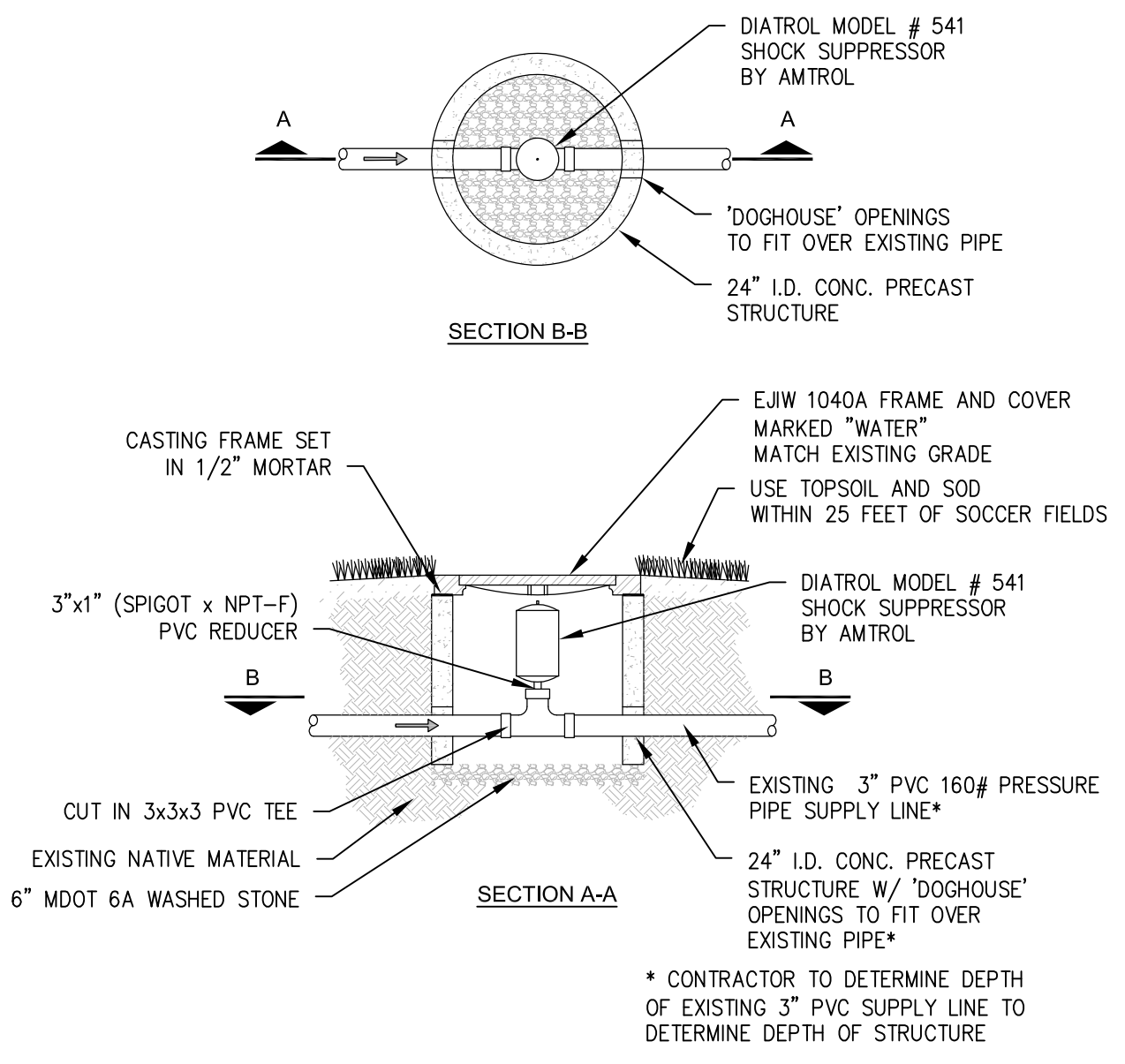
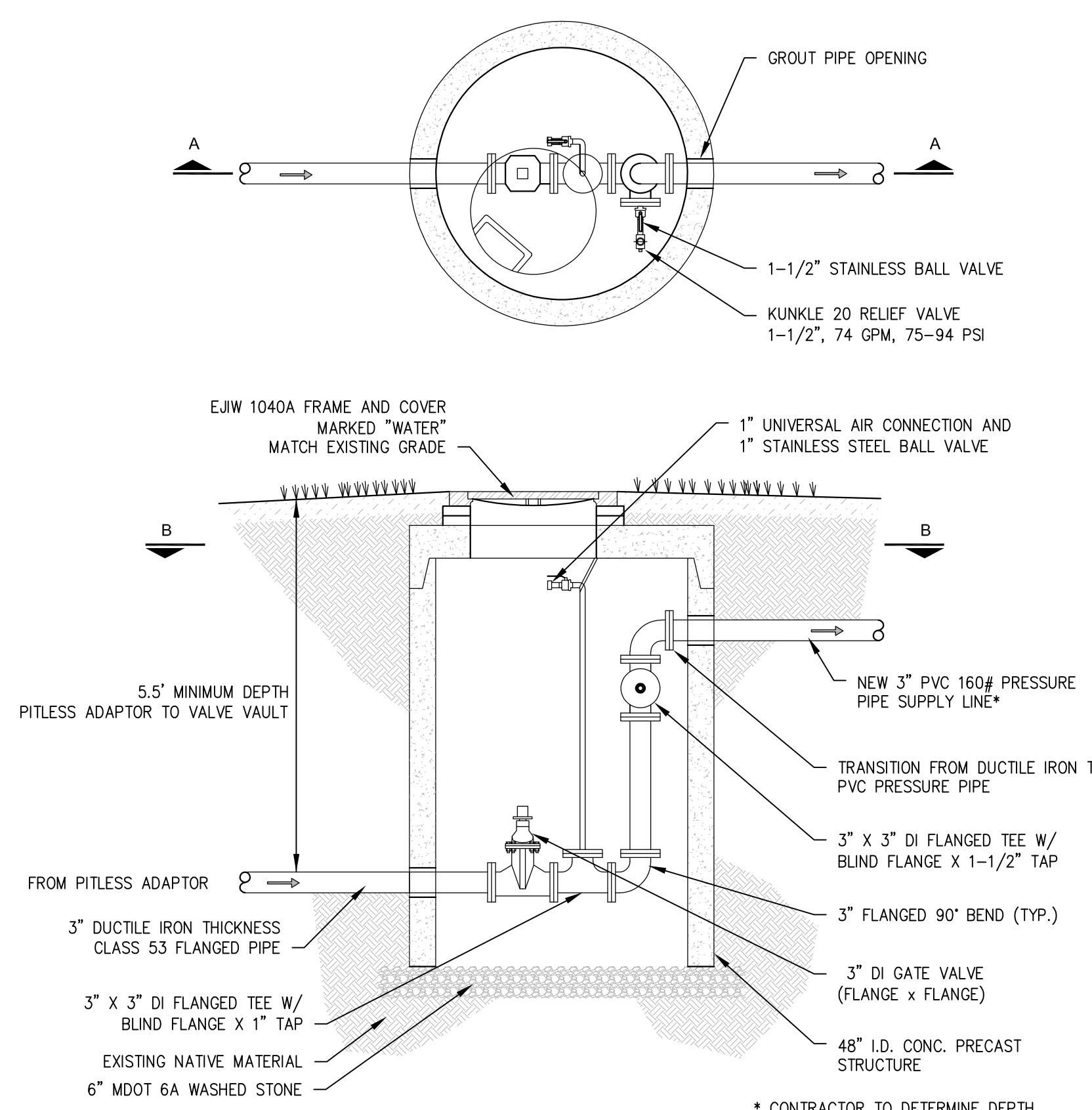
FIELD OPERATIONS - CITY OF ANN ARBOR

OLSON PARK
IRRIGATION IMPROVEMENTS
GENERAL NOTES AND LEGEND

SCALE
NONE

DRAWING No.
2075128410 - G-02

SHEET No.



8011 Know what's below. CALL before you dig.

PREPARED BY: Stantec

ANN ARBOR MICHIGAN

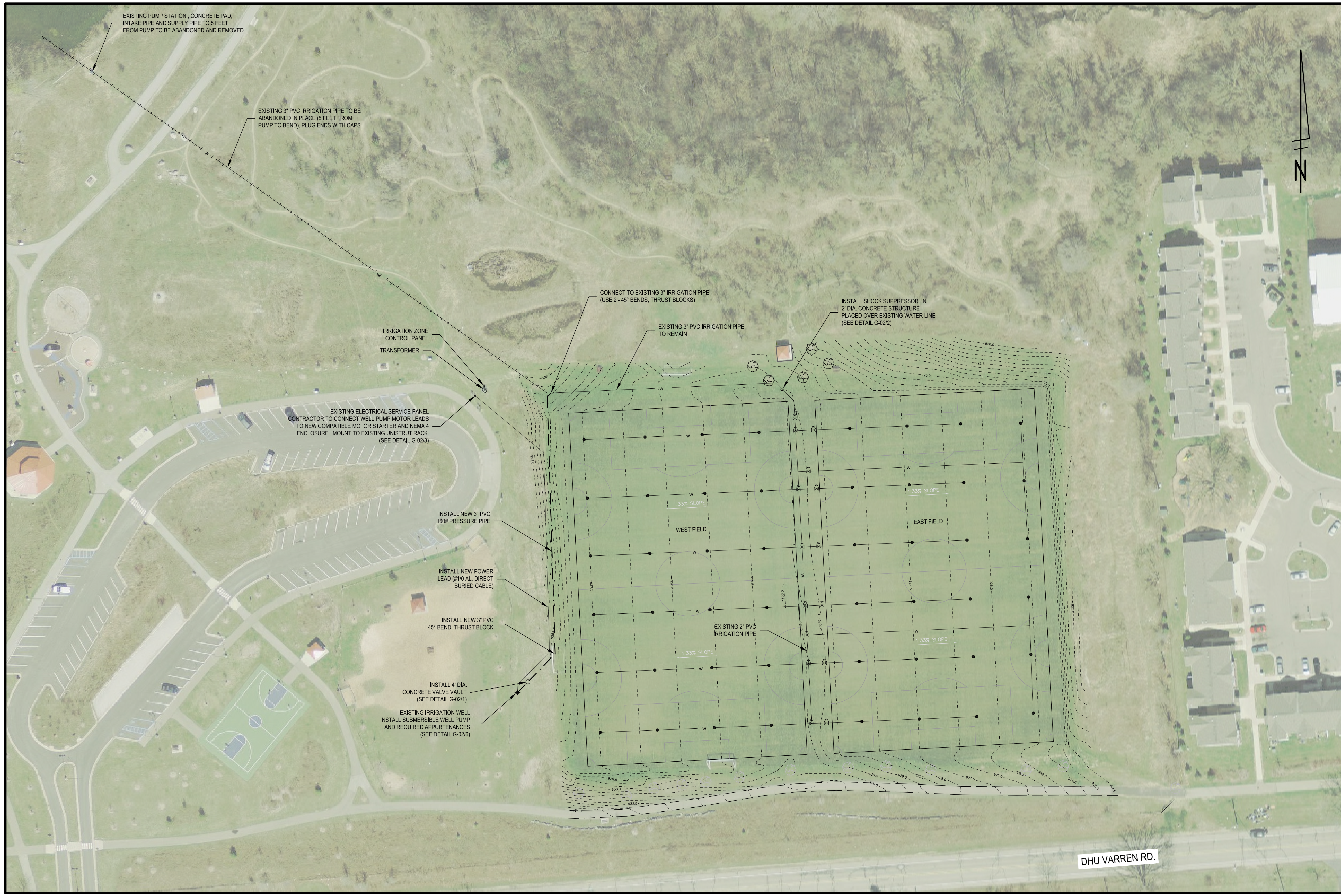
FIELD OPERATIONS - CITY OF ANN ARBOR
OLSON PARK
IRRIGATION IMPROVEMENTS
STANDARD DETAILS SHEET

SCALE: NONE
DRAWING NO.: 2075128410 - G-03
SHEET NO.: 3 OF 4

REV.	DATE	DESCRIPTION
2	01/06/15	BID SET
1	10/10/14	60% REVIEW SET

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FIELD OPERATIONS - CITY OF ANN ARBOR			OLSON PARK IRRIGATION IMPROVEMENTS SITE AND IRRIGATION PLAN									
SCALE PLAN: 1"=20'	PROFILE: 1"=2'											
			PREPARED BY:									
SHEET No: 4 OF 4												
DRAWING No: 2075128410 - C-01		<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>2</td> <td>01/06/15</td> <td>BID SET</td> </tr> <tr> <td>1</td> <td>10/10/14</td> <td>60% REVIEW SET</td> </tr> </table>		REV.	DATE	DESCRIPTION	2	01/06/15	BID SET	1	10/10/14	60% REVIEW SET
REV.	DATE	DESCRIPTION										
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