BENCH MARKS:

1. BM#3 – CONCRETE NAIL IN THE SIDEWALK ON THE EAST SIDE OF 42ND STREET, DIRECTLY WEST OF THE VA HOSPITAL BUILDING #6, ±4 FEET WEST OF AN ELECTRICAL MANHOLE.
   NORTHING: 10631.58
   EASTING: 20080.38
   ELEV: 1214.19

2. BM#4 – CONCRETE NAIL IN THE SIDEWALK ON THE NORTHWEST CORNER OF 42ND AND WOOLWORTH AVENUE.
   NORTHING: 11406.54
   EASTING: 20024.32
   ELEV: 1209.16

3. BM#5 – CONCRETE NAIL IN THE SIDEWALK ON THE NORTH SIDE OF WOOLWORTH AVENUE ±55 FEET EAST OF THE 2ND ENTRANCE EAST OF 42ND STREET TO THE DOUGLAS COUNTY HEALTH CENTER.
   NORTHING: 11408.64
   EASTING: 20550.06
   ELEV: 1220.02

EARTHWORK SPECIFICATIONS:

1. ALL FILL AND BACKFILL USED ON THE SITE SHOULD CONSIST OF APPROVED MATERIALS FREE OF ORGANIC MATTER AND DEBRIS. FILL SHALL CONSIST OF LOW PLASTICITY COHESIVE SOIL WHICH HAS A LIQUID LIMIT LESS OF 43 AND A PLASTICITY INDEX LESS THAN 23.

2. THE SOILS PRESENT AT THE SITE APPEAR TO BE GENERALLY SUITABLE FOR RE-USE AS STRUCTURAL FILL OR BACKFILL, FOLLOWING CONDITIONING AND BLENDING. SEE GEO-TECHNICAL REPORT FOR FURTHER DETAILS.

3. OFF-SITE BORROW SOILS SHALL BE TESTED PRIOR TO USE AS FILL AT THIS SITE AND SHALL MEET THE REQUIREMENTS STATED ABOVE.

4. RUBBLE AND WASTE MATERIALS FROM SITE CLEARING AND DEMOLITION SHALL BE REMOVED FROM THE SITE AND LAWFULLY DISPOSED OR RECYCLED. WASTE MATERIALS SHALL NOT BE BURIED ON SITE.

5. BACKFILL THAT REMAINS ABOVE EXISTING UTILITY LINES SHALL BE TESTED, AND ANY POORLY COMPACTED MATERIALS SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED STRUCTURAL FILL.

6. ALL AREAS TO BE DISTURBED DURING GRADING, INCLUDING BORROW AND FILL AREAS, SHALL BE STRIPPED OF THE TOP 6" MIN. OF EXISTING VEGETATION AND TOPSOIL. SURFACES TO RECEIVE FILL SHALL BE BROKEN UP AND RECOMPACTED TO ALLOW NEW FILL TO BOND TO THE EXISTING SOIL. SLOPES STEEPER THAN 5H:1V SHALL BE BENCHED BEFORE PLACING FILL.

7. TOPSOIL SHALL BE USED FOR RESPREADING OVER LANDSCAPED AREAS. CONTRACTOR SHALL HAUL OFF AND DISPOSE OF ANY EXCESS MATERIALS FROM STRIPPINGS NOT RE-SPREAD.

8. FILL AND BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS.

9. COMPACTION REQUIREMENTS FOR COHESIVE FILLS SHALL BE REFERENCED TO THE ASTM D698 (STANDARD PROCTOR) TEST METHOD. STRUCTURAL FILL SHALL BE COMPACTED TO AN IN-PLACE DRY UNIT WEIGHT AT LEAST 95 PERCENT OF THE MAXIMUM DRY UNIT WEIGHT AT A WATER CONTENT AT THE TIME OF COMPACTION TO WITHIN -3 AND +4 PERCENT OF THE OPTIMUM WATER CONTENT. BACKFILL FOR SHALLOW UTILITIES SHALL BE COMPACTED TO AN IN-PLACE DRY UNIT WEIGHT AT LEAST 92 PERCENT OF THE MAXIMUM DRY UNIT WEIGHT AT A WATER CONTENT AT THE TIME OF COMPACTION TO WITHIN -3 AND +5 PERCENT OF THE OPTIMUM WATER CONTENT. BACKFILL PLACED WITH A ZONE OF SUBGRADE PREPARATION SHALL BE COMPACTED TO THE REQUIREMENTS OF THE SUBGRADE FOR THE FULL DEPTH OF THE BACKFILL.

JOINTING NOTES:

1. A DIAMOND EDGE SAW BLADE SHALL BE USED FOR ALL REQUIRED CONTRACTION AND LONGITUDINAL PAVEMENT JOINTS. ALL SAW CUTS REQUIRED SHALL BE SUBSIDIARY TO ITEMS FOR WHICH DIRECT PAYMENT IS MADE.

2. CONTRACTION JOINTS SHALL BE CUT TO A MINIMUM OF ¼ OF THE SLAB THICKNESS (⅛ OF THE THICKNESS FOR EARLY ENTRY SAW METHOD).

3. JOINTS SHALL BE CUT AS SOON AS PRACTICAL AFTER THE CONCRETE HAS SET SUFFICIENTLY TO SUPPORT FOOT TRAFFIC, AND MUST BE CUT BEFORE ANY SHRINKAGE CRACKS FORM.

4. JOINTS SHALL BE SPACED NO MORE THAN 10 TIMES THE THICKNESS OF THE SLAB OR 10 FEET MAXIMUM. PANELS SHALL BE KEPT AS SQUARE AS POSSIBLE, WITH THE LENGTH TO WIDTH RATIO LIMITED TO 125 PERCENT.

5. DOWEL BARS SHALL BE USED FOR LOAD TRANSFER ACROSS CONSTRUCTION JOINTS, AND SHALL BE CONSIDERED FOR CONTRACTION JOINTS SUBJECTED TO HEAVY TRUCK TRAFFIC.

6. JOINTS SHALL BE LAID OUT TO MEET INLETS, DRAINAGE STRUCTURES, REENTRANT CORNERS, AND RADII. JOINTS SHALL BE PERPENDICULAR TO EDGES AND RADII AND SHALL NOT FORM ANGLES LESS THAN 45° OR OVER 225°. ISOLATION JOINTS SHALL BE PROVIDED AROUND ANY STRUCTURES.

7. CONTRACTOR SHALL PROVIDE THE JOINTING PATTERN AND SUBMIT AS A SHOP DRAWING FOR APPROVAL PRIOR TO PAVING ACTIVITIES.

8. JOINTS SHALL BE IN ACCORDANCE WITH DETAIL 5/C501.

UTILITY NOTES:

1. THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT AND OTHER IMPROVEMENTS. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. CONTRACTOR SHALL COORDINATE LOCATION OF TELEPHONE AND CABLE T.V. SERVICE AND SHALL INSTALL REQUIRED UNDERGROUND CONDUITS PRIOR TO INSTALLATION OF PAVEMENT SURFACING.

3. ALL EXCAVATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES" AND OTHER APPLICABLE CODES.

4. STORM SEWER LINES TO BE HDPE OR PVC PLASTIC PIPE WITH SMOOTH INTERIOR COATING AS SHOWN. ALL FITTINGS TO MATCH PIPE MATERIAL CHOSEN.

5. SEWER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF OMAHA "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2014 EDITION. REFERENCES TO STANDARD PLATES SHALL CALL-OUT CITY OF OMAHA STANDARD PLATES FOR PUBLIC WORKS CONSTRUCTION.

6. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THE METROPOLITAN UTILITY DISTRICT (M.U.D.) STANDARDS.

7. WATER AND FIRE LINE TO BE INSTALLED WITH MINIMUM 5' OF COVER OVER PIPE UNLESS CONNECTIONS TO EXISTING PIPES DEEMS IT NECESSARY TO DO OTHERWISE. WATER LINE TO BE COPPER, TYPE "K" OR DIP.

8. SANITARY LINE TO BE 4" SCHEDULE 40 PVC MATERIAL. FIRE MAIN TO BE DUCTILE IRON PIPE. THE NEW PIPING REQUIRED SHALL MEET THE STATE OF NEBRASKA PLUMBING CODE. FOR PROPER MATERIAL AND SIZING.

9. CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL BENDS, TEES, ELLS, AND GATE VALVES.

10. CONTRACTOR IS TO DOCUMENT THE LOCATIONS OF ALL CAPPED UTILITY LINES, VIA GPS LOCATING SOFTWARE. THIS INFORMATION IS TO BE PROVIDED TO THE VA COR FOR FILING.

11. THE CONTRACTOR WILL PROVIDE A MINIMUM OF 15 DAYS' NOTICE TO THE COR PRIOR TO SHUT DOWN OF THE WATER OR UTILITY SERVICES ON ALL BUILDINGS ON CAMPUS

THE FOLLOWING DETAILS FOUND IN THE CITY OF OMAHA STANDARD PLATES SHALL BE USED:

DETAIL	STANDARD PLATE #
SEWER BEDDING	#700-01
CURB INLETS	#700-21, TYPE IV
CONCRETE COLLAR AND SEWER TAP	#700-23
PIPE PLUG	#700-24
SANITARY SEWER WATER MAIN CROSSING	#700-25
REINFORCED CONCRETE CURB INLET COVER WITH FACE ARMOR	#700-30
STORM SEWER MANHOLE	#700-40
CAST IRON MANHOLE RINGS AND COVERS, MANHOLE STEPS	#700-90

CIVIL GENERAL NOTES:

1. THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT AND OTHER IMPROVEMENTS. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. THE CONTRACTOR SHALL CALL FOR THE EXISTING UTILITY LOCATION STAKES 48 HOURS PRIOR TO DIGGING. CALL LOCATING SERVICE AND ALL APPLICABLE UTILITY COMPANIES AS NECESSARY. MOST OF THE UTILITIES ARE FEDERAL. CONTRACTOR WILL NEED TO EMPLOY LOCATING SERVICES AND COORDINATE WITH VA PERSONNEL.

DIGGER'S HOTLINE OF NEBRASKA.....(402) 344-3565

CENTURY LINK TELEPHONE COMPANY.....(402) 422-2000

OMAHA PUBLIC POWER DISTRICT..... (402) 536-4000

METROPOLITAN UTILITIES DISTRICT – GAS & WATER.....(402) 449-8000

MCI TELECOMMUNICATIONS.....(402) 571-5450

COX COMMUNICATIONS.....(402) 933-3000

3. WHERE PLANS CALL OUT FOR WORK TO BE COMPLETED ON WEEKEND HOURS, THIS SHALL MEAN SATURDAY MORNING THRU SUNDAY. WORK CAN ALSO BE COMPLETED ON A FEDERAL HOLIDAY IF THIS FALLS INTO THE PROJECT SCHEDULE.

4. ELEVATIONS ARE REFERENCED TO NAVD88 DATUM.

5. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND DISPOSED OF PROPERLY AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, LIGHTS AND FLAGMEN AS PER VA STANDARDS AND REQUIREMENTS. COST SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

7. PROTECT BY WHATEVER MEANS REQUIRED ALL FENCES, SIGNS, STRUCTURES, DRIVES, SIDEWALKS, STREETS, BUSHES, TREES, ETC. WHICH ARE NOT DESIGNATED FOR REMOVAL; OR ARE OUTSIDE THE LIMITS OF CONSTRUCTION.

8. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO POND IN EXCAVATION AREAS, AND MAINTAIN ALL EXISTING DRAINAGE PATTERNS.

9. ALL EXISTING UTILITIES AND SERVICE LINES SHALL BE KEPT IN SERVICE AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT, UNLESS OTHERWISE AUTHORIZED BY OWNER.

10. THE CONTRACTOR SHALL ADJUST TO GRADE ALL WATER AND GAS VALVE BOXES AND MANHOLES THAT FALL WITHIN THE LIMITS OF THIS CONTRACT. THE CONTRACTOR SHALL KEEP ALL SAID WATER, GAS AND EXISTING SEWERS AND THEIR APPURTENANCES FREE OF DEBRIS AND OPERABLE AT ALL TIME DURING CONSTRUCTION.

11. THE CONTRACTOR SHALL CONSTRUCT ALL PAVEMENTS TO CONFORM WITH THE CORRECT LINES, AND FINISHED GRADES AS INDICATED ON THE PLANS. NO PONDING OF WATER WILL BE ALLOWED.

12. THE CONTRACTOR SHALL PAY ALL PERMIT AND OTHER ASSOCIATED FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES.

13. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB OR AS INDICATED. FOLLOW WRITTEN DIMENSIONS ALWAYS. DO NOT SCALE. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

14. CONTRACTOR SHALL SOD AND FERTILIZE ALL DISTURBED AREAS AS SHOWN ON THE LANDSCAPING PLAN.

15. CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL ITEMS NECESSARY TO ACCOMMODATE THE PROPOSED IMPROVEMENTS WHETHER SPECIFICALLY CALLED OUT BY NOTE OR NOT.

16. FOR THE PURPOSES OF THIS PROJECT AND THESE DOCUMENTS, "PROVIDE" SHALL REFER TO THE CONTRACTOR PROVIDING ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO CONSTRUCT, INSTALL, OR OTHERWISE BUILD THE IMPROVEMENTS.

17. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS/ELEVATIONS SHOWN WITH AN ASTERISK (*). IF DIMENSIONS OR ELEVATIONS VARY SIGNIFICANTLY FROM THOSE SHOWN, CONTACT THE ENGINEER IMMEDIATELY FOR FURTHER INSTRUCTIONS.

18. MAINTAIN ACCESS TO EXISTING BUILDING 8 AT ALL TIMES DURING CONSTRUCTION.

Revisions: | Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

Architect Project No. 003-10121-017

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Drawing Title: GENERAL PROJECT NOTES AND LEGEND

Approved Project Director: Name

Project Title: FISHER HOUSE SITE PREP

Location: OMAHA, NE

Date: October 18, 2016 R | Checked: AAH | Drawn: JMK

Project Number: 636-CSI-100

Building Number: A, B, 3

Drawing Number: C001

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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