## SITE PLANS

### **FOR**

# RESURRECTION LUTHERAN

ANKENY, IOWA

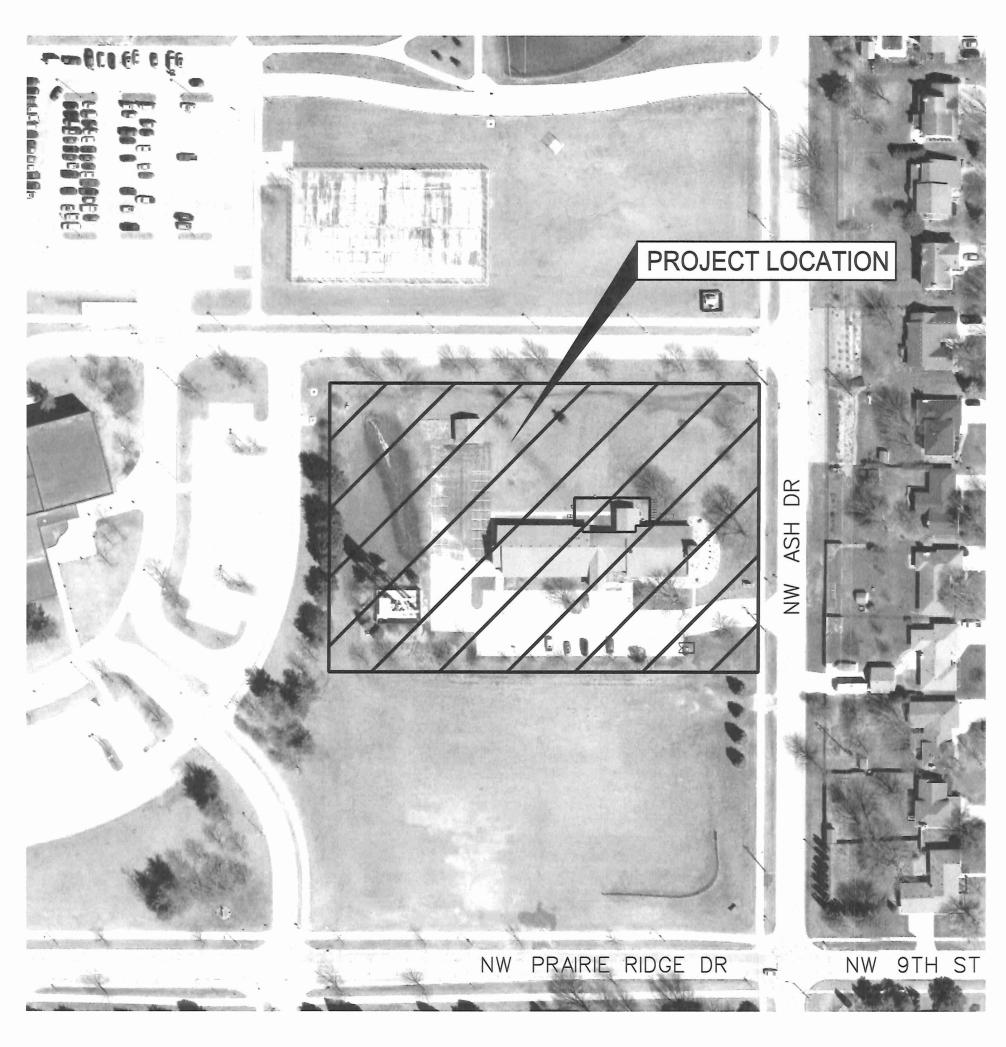
#### OWNER/DEVELOPER

RESURRECTION LUTHERAN CHURCH 914 NW ASH DRIVE ANKENY, IA 50023 CONTACT: REV. LISA PARKER PHONE: 515-964-7392

#### CIVIL ENGINEER

SNYDER & ASSOCIATES, INC. 2727 SW SNYDER BLVD. ANKENY, IA 50023 CONTACT: TIM WEST PHONE: 515-964-2020

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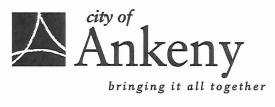
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C104 LANDSCAPE PLAN



## ETHOS

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MECHANICAL AND ELECTRICAL ENGINEER
KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50265
Tel. 515.724.7938



RENOVATION & ADDITION FOR:
RESURRECTION LUTHERAN
CHURCH
914 NW ASH DRIVE
ANKENY, IA 50023

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| MANAGEMENT | INFORMATION |
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PROJECT 2018.187 NO:

PRINCIPAL PROJECT IN CHARGE : TIM OLSON ARCHITECT : DP

DRAWN BY : HRH

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SHEET NO.

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#### **LEGEND**

| Features  Spot Elevation Contour Elevation Fence (Barbed, Field, Hog) Fence (Chain Link) Fence (Wood) Fence (Silt) Tree Line  | Existing  93.0  -93 | Proposed 93.0 ×93                         |
|---|---------------------|---|
| Tree Stump  Deciduous Tree or Shrub  Coniferous Tree or Shrub   |                     | ()<br>()                                  |
| Communication Overhead Communication Fiber Optic Underground Electric Overhead Electric Gas Main with Size High Pressure Gas Main with Size Water Main with Size Sanitary Sewer with Size Duct Bank Test Hole Location for SUE w/ID |                     | — OC — FO — E — OE — 4" G — 4" HPG — 8" W |

#### (\*) Denotes the survey quality service level for utilities

| Sanitary Manhole   | Ø | <b>Ø</b> |
|--|---|----------|
| Storm Sewer with Size Storm Manhole Single Storm Sewer Intake Double Storm Sewer Intake Fire Hydrant Fire Hydrant on Building Water Main Valve Water Service Valve Well Utility Pole Guy Anchor Utility Pole with Light Utility Pole with Transformer Street Light Yard Light Electric Box Electric Transformer Traffic Sign Communication Pedestal Communication Handhole Communication Handhole Fiber Optic Manhole Fiber Optic Handhole Gas Valve Gas Manhole Gas Apparatus Fence Post or Guard Post Underground Storage Tank Above Ground Storage Tank Sign Satellite Dish Mailbox |   | 12" ST   |
| Soil Boring  |   | *        |

#### **UTILITY QUALITY SERVICE LEVELS**

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD. QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS. QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

#### UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

#### **UTILITY CONTACT INFORMATION**

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 551404043.

W1-WATER S-SANITARY SEWER

CITY OF ANKENY SHAWN BUCKNER (WATER) 515-963-3524

sbuckner@ankenyiowa.gov ROGER MCFARLAND (SANITARY SEWER) 515-965-6483

NO RESPONSE

rmcfarland@ankenyiowa.gov ANKENY COMMUNITY SCHOOLS

NATE HUGEBACK

515-289-3990 nate.hugeback@ankenyschools.org

NO RESPONSE

MIDAMERICAN ENERGY COMPANY THERESA MCGUIRE DISTRIBUTION ENGINEERING DEPT. 515-252-6621 tmcquire@midamerican.com

CLEAR

CENTURYLINK LOCAL NETWORK RAY MONTOYA 515-263-7200 raymond.montoya@centurylink.com

pmay@mediacomcc.com

FO1-FIBER OPTIC

WINDSTREAM MCLEOD JOEL SCHROEDER

800-289-1901 locate.desk@windstream.com

MEDIACOM COMMUNICATIONS CLEAR PAUL MAY 515-246-2252



#### **GENERAL NOTES**

- A. NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES. PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- B. CONSTRUCTION OF ALL STREET AND UTILITY IMPROVEMENTS SHALL CONFORM TO THE 2019 SUDAS STANDARD SPECIFICATIONS, THE CITY OF ANKENY SUPPLEMENTAL SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE SOILS REPORTS PREPARED BY OTHERS.
- C. LENGTH OF UTILITIES SHOWN ON PLANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.
- D. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY, FLAGGERS SHALL BE PROVIDED. FLAGGERS SHALL CONFORM TO THE MUTCO IN APPEARANCE, EQUIPMENT AND ACTIONS.
- E. NOTIFY OWNER, ENGINEER AND CITY OF ANKENY AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
- F. CONSTRUCT MANHOLES AND APPURTENANCES AS WORK PROGRESSES. BACKFILL WITH SUITABLE MATERIAL AND COMPACT TO 95% MAXIMUM DENSITY.
- G. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
- H. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.
- I. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
- J. CONTRACTOR TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
- K. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 8" DEPTH TO FINISH GRADES.
- L. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE NOTED.
- M. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS, DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.
- N. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTANENCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE
- O. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION. GRADING AND SOIL EROSION CONTROL CODE REQUIREMENTS SHALL BE MET BY
- P. CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER FRANCHISE UTILITY SERVICES WITH UTILITY SERVICE PROVIDER, CITY OF ANKENY, AND THE OWNER PRIOR TO CONSTRUCTION.
- Q. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. CONTRACTOR TO COORDINATE UTILITY ROUTING TO BUILDING AND VERIFY CONNECTION LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- R. ALL STORM SEWER PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE FLARED END SECTION.
- S. LOCATION OF GROUND SIGNS AND ALL OTHER SIGNS WILL NEED TO BE APPROVED THROUGH SIGN PERMIT APPLICATION PROCESS.

#### **BENCHMARKS**

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A)

CONTRACTOR. A GRADING PERMIT IS REQUIRED FOR THIS PROJECT.

IARTN DERIVED - US SURVEY FEET

BM3 ELEV=982.61 BURY BOLT ON HYDRANT NORTH OF PUBLIC LIBRARY, WEST SIDE OF SITE.

#### **CONTROL POINTS**

IOWA STATE PLANE SOUTH COORDINATE SYSTEM NAD83(2011)(EPOCH 2010.00)
IARTN DERIVED - US SURVEY FEET

- CP6 N=633663.27 E=1609393.18 CUT "X" ON BACK OF CURB SOUTH OF LIGHT POLE IN PARKING LOT NORTH OF SCHOOL, CENTER OF SITE.
- N=633725.42 E1608969.14
  CUT "X" IN CENTERLINE OF EAST/WEST SIDEWALK 25' EAST OF INTERSECTION WITH NORTH/SOUTH SIDEWALK NORTH OF LIBRARY,

#### **ZONING**

R-2 ONE-FAMILY AND TWO-FAMILY RESIDENCE DISTRICT

#### PROPERTY DESCRIPTION

RESURRECTION LUTHERAN CHURCH: LOT 1 PARRISH PLACE PLAT 1

#### PROPERTY ADDRESS

914 NW ASH DRIVE ANKENY, IA 50023

### **BUILDING HEIGHT**

EXISTING BUILDING HEIGHT:27'-0"
BUILDING ADDITION HEIGHT:15'-0"

#### PARKING CALCULATIONS

PARKING CALCULATIONS PER CITY OF ANKENY'S CHAPTER 194 ZONING ORDINANCE PARKING, LOADING AND SCREENING, SECTION 1E .: PROVIDE 1 SPACE PER EVERY 80 SF OF WORSHIP AREA PLUS 1 SPACE FOR EVERY 2 EMPLOYEES WITH SUFFICIENT SPACE FOR SAFE AND CONVENIENT LOADING AND UNLOADING.

3 EMPLOYEES = 2 SPACES REQUIRED WORSHIP AREA = 2,071 SF (2,071 SF/80 SF = 25.88) 25.88 X 1 SPACE PER 80 SF = 26 SPACES REQUIRED 2 + 26 = 28 TOTAL PARKING SPACES REQUIRED (65

#### POLLUTION PREVENTION NOTES

A. POLLUTION PREVENTION AND EROSION PROTECTION

- CODE COMPLIANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, TH IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT AGAINST EROSION AND POLLUTION FROM THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF
- 2. DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER AND ARCHITECT / ENGINEER HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORN FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FAILS TO TAKE NECESSARY STEPS TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE OWNER MAY, BUT NEED NOT, REMOVE SU ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE TO THE CONTRACTOR.

#### B. STORM WATER DISCHARGE PERMIT

- 1. THIS PROJECT REQUIRES COVERAGE UNDER THE NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDNR, AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH AND FULFILLMENT OF ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 AS SPECIFIED IN THE CONTRACT
- DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT, INCLUDING, BUT NOT MITED TO, THE NOTICE OF INTENT, PROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION TTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS, SHALL BE KEPT ON SITE ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON QUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF E CLEAN WATER ACT AND THE CODE OF IOWA.
- 3. A "NOTICE OF DISCONTINUATION" MUST BE FILED WITH THE IDNR UPON FINAL STABILIZATION OF THE DISTURBED SITE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION. THE CONTRACTOR SHALL RETAIN A RECORD COPY AND PROVIDE THE ORIGINAL DOCUMENTS TO THE OWNER UPON PROJECT ACCEPTANCE AND/OR SUBMITTAL OF THE NOTICE OF DISCONTINUATION.

#### C. POLLUTION PREVENTION PLAN

- 1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS A SEPARATE DOCUMENT IN ADDITION TO THESE PLAN DRAWINGS. THE CONTRACTOR SHOULD REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS AND MODIFICATIONS TO THE POLLUTION PREVENTION PLAN MADE DURING CONSTRUCTION.
- THE SWPPP ILLUSTRATES GENERAL MEASURES AND BEST MANAGEMENT PRACTICES (BMP) FOR COMPLIANCE WITH THE PROJECT'S NPDES PERMIT COVERAGE. ALL BMP'S AND EROSION CONTROL MEASURES REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, NOTE AND IMPLEMENT. ADDITIONAL BMP'S FROM THOSE SHOWN ON THE PLAN MAY BE REQUIRED.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL PERMIT AND SWPPP, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING BMP'S UNLESS INFEASIBLE OR NOT APPLICABLE:
- UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE WHEN DISCHARGING FROM BASINS, PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, AND MINIMIZE SOIL COMPACTION.
- INSTALL PERIMETER AND FINAL SEDIMENT CONTROL MEASURES SUCH AS SILT BARRIERS, DITCH CHECKS, DIVERSION BERMS, OR SEDIMENTATION BASINS DOWNSTREAM OF SOIL DISTURBING ACTIVITIES PRIOR TO SITE CLEARING AND GRADING OPERATIONS.
- d. MAINTAIN ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERMIT PERIOD. CLEAN OR REPLACE SILT CONTROL DEVICES WHEN THE MEASURES HAVE LOST 50% OF THEIR ORIGINAL CAPACITY.
- INSPECT THE PROJECT AREA AND CONTROL DEVICES (BY QUALIFIED PERSONNEL ASSIGNED BY THE CONTRACTOR) EVERY SEVEN CALENDAR DAYS. RECORD THE FINDINGS OF THESE INSPECTIONS AND ANY RESULTING ACTIONS IN THE SWPPP WITH A COPY SUBMITTED WEEKLY TO THE OWNER OR ENGINEER DURING CONSTRUCTION. REVISE THE SWPPP AND IMPLEMENT ANY RECOMMENDED MEASURES WITHIN 7 DAYS.
- f. PREVENT ACCUMULATION OF EARTH AND DEBRIS FROM CONSTRUCTION ACTIVITIES ON ADJOINING PUBLIC OR PRIVATE PROPERTIES, INCLUDING STREETS, DRIVEWAYS, SIDEWALKS, DRAINAGEWAYS, OR UNDERGROUND SEWERS. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR FUTURE PREVENTION.
- g. INSTALL NECESSARY CONTROL MEASURES SUCH AS SILT BARRIERS, EROSION CONTROL MATS, MULCH, DITCH CHECKS OR RIPRAP AS SOON AS AREAS REACH THEIR FINAL GRADES AND AS CONSTRUCTION OPERATIONS PROGRESS TO ENSURE CONTINUOUS RUNOFF CONTROL. PROVIDE INLET AND OUTLET CONTROL MEASURES AS SOON AS STORM SEWERS ARE INSTALLED.
- STABILIZE UNDEVELOPED, DISTURBED AREAS WITH MULCH, TEMPORARY SEED MIX, PERMANENT SEED MIX, SOD, OR PAVEMENT IMMEDIATELY AS SOON AS POSSIBLE UPON COMPLETION OR DELAY OF GRADING OPERATIONS. INITIATE STABILIZATION MEASURES IMMEDIATELY AFTER CONSTRUCTION ACTIVITY IS FINALLY COMPLETED OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WHICH WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- j. COORDINATE LOCATIONS OF STAGING AREAS WITH THE OWNER AND RECORD IN THE SWPPP. UNLESS NOTED OTHERWISE, STAGING AREAS SHOULD CONTAIN THE FOLLOWING: JOB TRAILERS, FUELING / VEHICLE MAINTENANCE AREA, TEMPORARY SANITARY FACILITIES, MATERIALS STORAGE, AND CONCRETE WASHOUT FACILITY. CONTROL RUNOFF FROM STAGING AREAS WITH DIVERSION BERMS AND/OR SILT BARRIERS AND DIRECT TO A SEDIMENT BASIN OR OTHER CONTROL DEVICE WHERE POSSIBLE. CONCRETE WASHOUT MUST BE CONTAINED ONSITE.
- k. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND SITE WASTE PRIOR TO FILING OF THE "NOTICE OF DISCONTINUATION".
- D. PROJECT SPECIFIC REQUIREMENTS FOR POLLUTION PREVENTION AND EROSION PROTECTION 1. RESPONSIBILITIES OF THE OWNER:
  - a. SIGN NPDES CERTIFICATION STATEMENT AS PERMITEE.
- b. ALL REQUIREMENTS NOT ASSIGNED TO OTHERS.
- 2. RESPONSIBILITIES OF THE ENGINEER:
- a. CREATE THE INITIAL SWPPP.
- b. PUBLISH THE PUBLIC NOTICE OF STORM WATER DISCHARGE.
- c. FILE THE NOTICE OF INTENT WITH APPLICATION FEE FOR NPDES GENERAL PERMIT No. 2 COVERAGE.
- d. SUBMIT THE NOTICE OF DISCONTINUATION.
- 3. RESPONSIBILITIES OF THE CONTRACTOR:
- a. SIGN NPDES CERTIFICATION STATEMENT AS CO-PERMITEE AND COORDINATING CERTIFICATION OF SUBCONTRACTOR CO-PERMITEES.
- b. COMPLY WITH THE REQUIREMENTS OF THE GENERAL PERMIT No.2 AND THE SWPPP. c. INSTALL, MAINTAIN, AND REMOVE EROSION CONTROL AND POLLUTION PREVENTION MEASURES.
- d. WEEKLY INSPECTIONS AND CORRESPONDING RECORDS.
- e. UPDATE AND MAINTAIN THE ONSITE SWPPP.
- f. COOPERATE TO PROVIDE INFORMATION UNDER THE RESPONSIBILITY OF OTHERS.



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MECHANICAL AND ELECTRICAL ENGINEER KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 Tel. 515.724.7938



PROJECT NAME. **RENOVATION & ADDITION FOR:** RESURRECTION LUTHERAN CHURCH 914 NW ASH DRIVE ANKENY, IA 50023

DRAWING ISSUE INFORMATION. ISSUE FOR: 100% CONSTRUCTION DOCUMENTS ISSUE DATE: 06.21.2019

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MANAGEMENT INFORMATION.

PROJECT 2018.187

DRAWN BY: HRH

PROJECT IN CHARGE : TIM OLSON ARCHITECT : DP

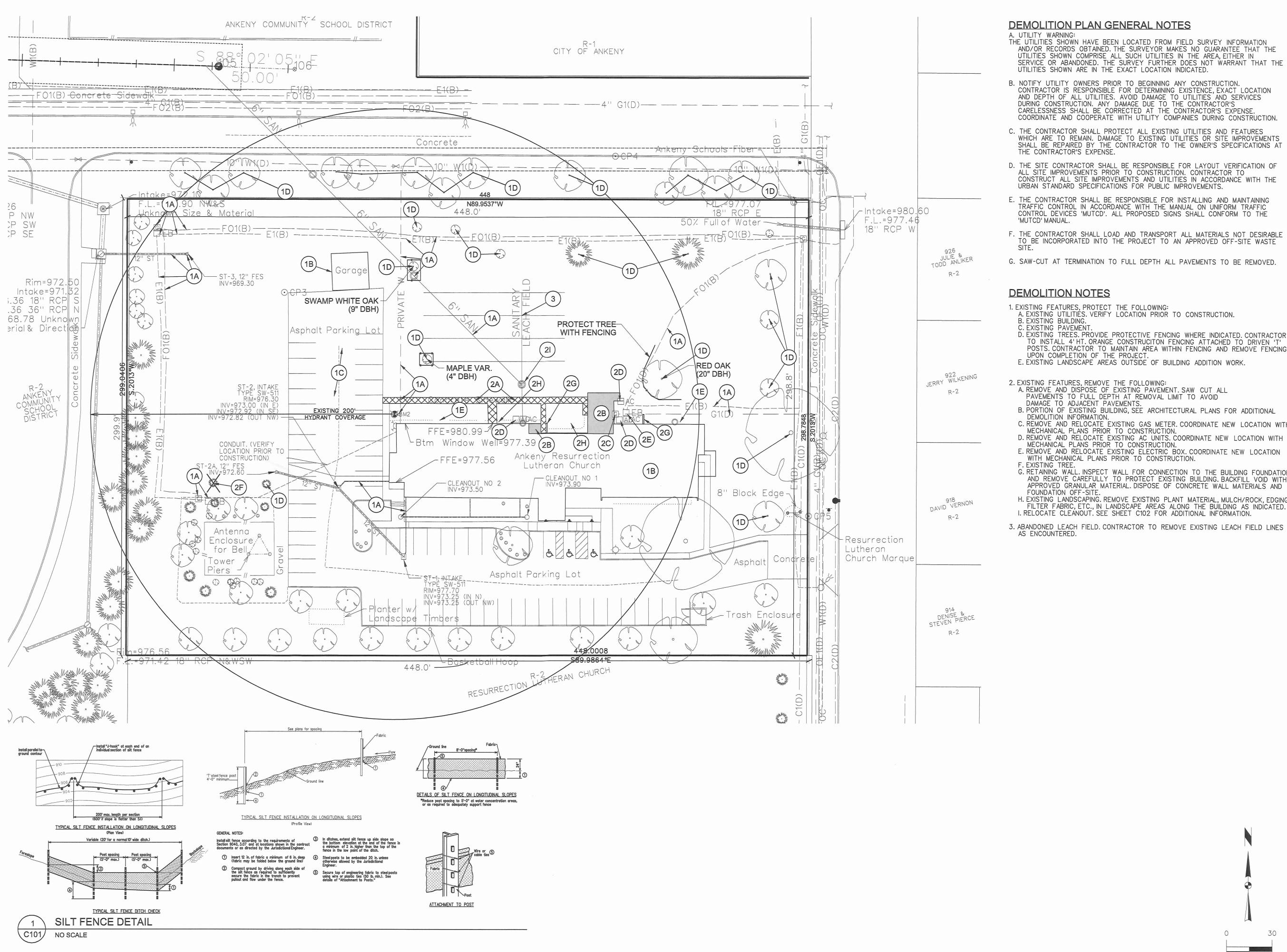
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SHEET TITLE.

**PROJECT** INFORMATION

SHEET NO





- A. UTILITY WARNING: THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- B. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION.
  CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES
  DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S
  CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
  COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
- C. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND FEATURES WHICH ARE TO REMAIN. DAMAGE TO EXISTING UTILITIES OR SITE IMPROVEMENTS SHALL BE REPAIRED BY THE CONTRACTOR TO THE OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- D. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONSTRUCT ALL SITE IMPROVEMENTS AND UTILITIES IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 'MUTCD'. ALL PROPOSED SIGNS SHALL CONFORM TO THE 'MUTCD' MANUAL.
- F. THE CONTRACTOR SHALL LOAD AND TRANSPORT ALL MATERIALS NOT DESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE
- G. SAW-CUT AT TERMINATION TO FULL DEPTH ALL PAVEMENTS TO BE REMOVED.

#### **DEMOLITION NOTES**

- 1. EXISTING FEATURES, PROTECT THE FOLLOWING: A. EXISTING UTILITIES. VERIFY LOCATION PRIOR TO CONSTRUCTION. B. EXISTING BUILDING.
  - C. EXISTING PAVEMENT D. EXISTING TREES. PROVIDE PROTECTIVE FENCING WHERE INDICATED. CONTRACTOR TO INSTALL 4' HT. ORANGE CONSTRUCITON FENCING ATTACHED TO DRIVEN 'T' POSTS. CONTRACTOR TO MAINTAIN AREA WITHIN FENCING AND REMOVE FENCING UPON COMPLETION OF THE PROJECT.

    E. EXISTING LANDSCAPE AREAS OUTSIDE OF BUILDING ADDITION WORK.
- 2. EXISTING FEATURES, REMOVE THE FOLLOWING:
  A. REMOVE AND DISPOSE OF EXISTING PAVEMENT. SAW CUT ALL PAVEMENTS TO FULL DEPTH AT REMOVAL LIMIT TO AVOID DAMAGE TO ADJACENT PAVEMENTS.
- B. PORTION OF EXISTING BUILDING, SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION INFORMATION.
- C. REMOVE AND RELOCATE EXISTING GAS METER. COORDINATE NEW LOCATION WITH MECHANICAL PLANS PRIOR TO CONSTRUCTION. D. REMOVE AND RELOCATE EXISTING AC UNITS. COORDINATE NEW LOCATION WITH MECHANICAL PLANS PRIOR TO CONSTRUCTION.
- E. REMOVE AND RELOCATE EXISTING ELECTRIC BOX. COORDINATE NEW LOCATION WITH MECHANICAL PLANS PRIOR TO CONSTRUCTION. EXISTING TREE.
- G. RETAINING WALL. INSPECT WALL FOR CONNECTION TO THE BUILDING FOUNDATION AND REMOVE CAREFULLY TO PROTECT EXISTING BUILDING. BACKFILL VOID WITH APPROVED GRANULAR MATERIAL. DISPOSE OF CONCRETE WALL MATERIALS AND FOUNDATION OFF-SITE.
  H. EXISTING LANDSCAPING. REMOVE EXISTING PLANT MATERIAL, MULCH/ROCK, EDGING.
- FILTER FABRIC, ETC., IN LANDSCAPE AREAS ALONG THE BUILDING AS INDICATED. I. RELOCATE CLEANOUT. SEE SHEET C102 FOR ADDITIONAL INFORMATION.

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CIVILENGINEER **SNYDER & ASSOCIATES** 2727 SW SNYDER BLVD PO BOX 1159 ANKENY, IA 50023 Tel. 515.964.2020

ARCHITECT AND INTERIOR DESIGNER ETHOS DESIGN GROUP, INC. 119 SECOND STREET, PO BOX 169 POLK CITY, IA 50226 Tel. 515.984.3077

STRUCTURAL ENGINEER KPFF, INC. 604 LOCUST STREET, SUITE 202 DES MOINES, IOWA 50309 Tel. 515.279.3900

MECHANICAL AND ELECTRICAL ENGINEER KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 Tel. 515.724.7938



PROJECT NAME. **RENOVATION & ADDITION FOR:** RESURRECTION LUTHERAN CHURCH 914 NW ASH DRIVE

ANKENY, IA 50023

DRAWING ISSUE INFORMATION. ISSUE FOR: 100% CONSTRUCTION DOCUMENTS ISSUE DATE: 06.21.2019

MANAGEMENT INFORMATION.

MARK DATE DESCRIPTION

PROJECT 2018.187

PRINCIPAL PROJECT IN CHARGE : TIM OLSON ARCHITECT : DP

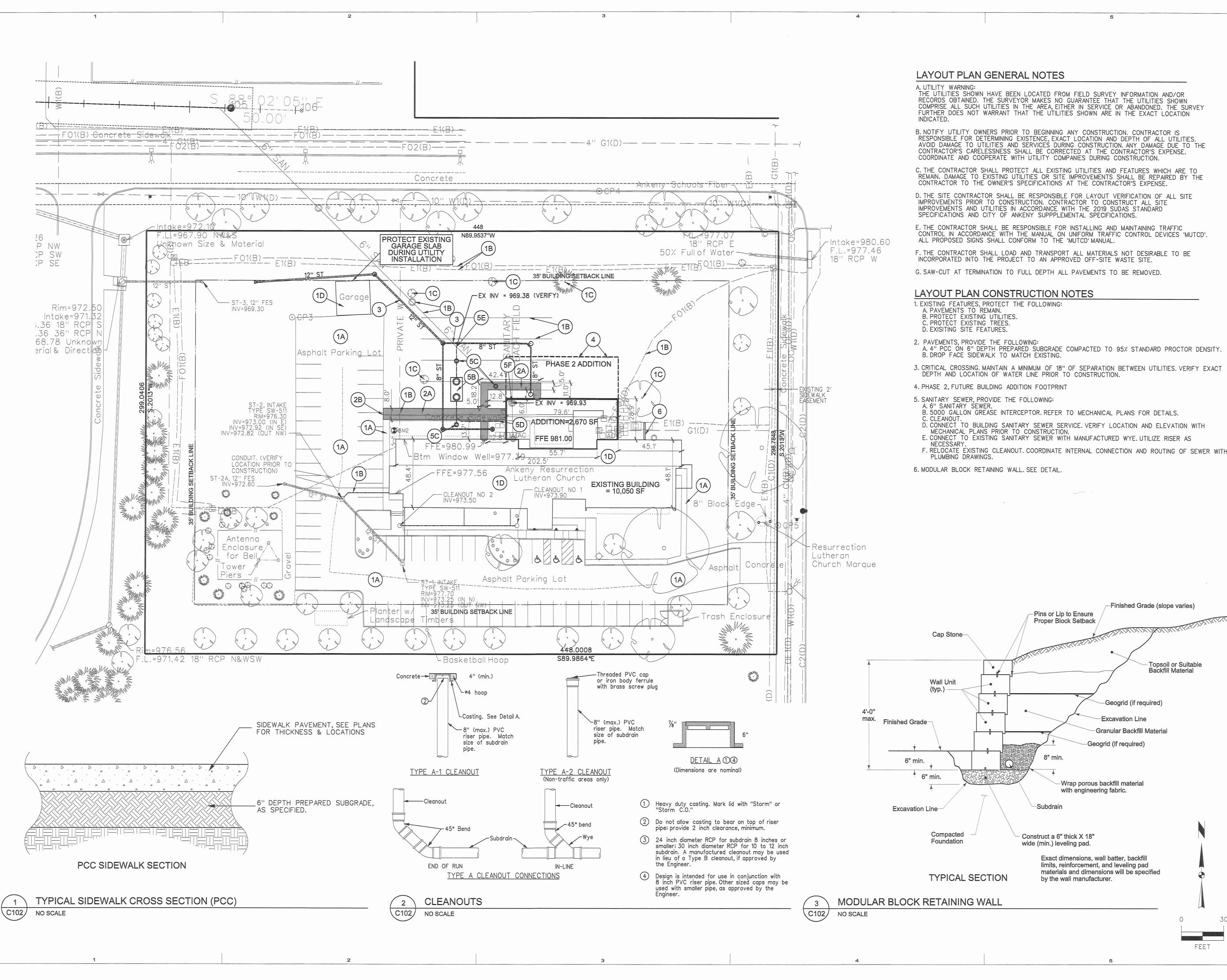
DRAWN BY: HRH CHECKED BY : TO

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SHEET TITLE.

**DEMOLITION** PLAN

SHEET NO.





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CIVIL E N G I N E E R
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Tel. 515.964.2020

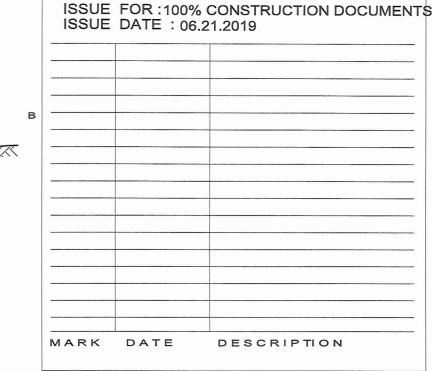
ARCHITECT AND INTERIOR DESIGNER ETHOS DESIGN GROUP, INC. 119 SECOND STREET, PO BOX 169 POLK CITY, IA 50226 Tel. 515.984.3077

STRUCTURAL ENGINEER
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300 4TH STREET
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Tel. 515.724.7938



RENOVATION & ADDITION FOR:
RESURRECTION LUTHERAN
CHURCH
914 NW ASH DRIVE
ANKENY, IA 50023



DRAWING ISSUE INFORMATION.

MANAGEMENT INFORMATION.

PROJECT 2018.187

PRINCIPAL PROJECT
IN CHARGE: TIM OLSON ARCHITECT: DP

DRAWN BY : HRH CHECKED BY : TO

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SHEET TITLE.

SITE LAYOUT

SHEET NO.

C102

#### F01(B) Concrete Sidewajk -F02(B) Concrețe 448----) NM 50% Full of Water E1(B) 01(B) > SW <sup>2</sup> SE ST-3B, 12" NYLOPLAST BASIN WITH SOLID LID ─35' BUILDING SETBACKLINE T-3A,12" NYLOPLASTO BASIN RIM=976.50 SINV=972.27 (IN-SE) INV=970.85 (OUT-W) INV=973.06(IN-E) /INV=973.10(IN-S)Rim=972.50 NV-972.96(OUT-NW) Intake=971.32 36 18" RCP\S INV=974.30 (OUT-W) 36 36" RCP -/37 LF OF 10" 8.78 Unknown PVC @ 2.0% 100-YEAR ELEV=973.1[3] Asphalt Parking Lot rial & Directlon 比 60 LF OF 8" PVC @ 1.0 EX. GAS LINE CONFIRM EXACT LOCATION & DEPTH PRIOR TO CONSTRUCTION FFE=981.00 ST-3, 10" NYLOPLAST BASIN — WHTH STANDARD GRATE RIM=978,00 - ST-2, 10" NYLOPLAST BASIN SI-2, 10" NO 3 SI-2, 10" NO 3 SI-2, 10" NO 3 SI-2, 10" NO 3 WITH STAND. Ankeny Resurrect RIM-979.75 PVC @ 1.0% OUT NO 3 ∟Btm Window Well=977.39 WITH STANDARD GRATE FFE=981.00 CLEANOUT NO 2 Block Edge Antenna Enclosure for Bell ower Asphalt Parking Lot 35' BUILDING SETBACK LINE 448.0008 S89.9864° 1) On sizes 60 inches and larger, supplement the DIMENSIONS reinforced edge with a galvanized stiffener H L (土型) Measurement (Length) of Pipe Culvert angle attached with bolts. Corrugated Plate 3′′ 2 Install a galvanized toe plate (of the same gage metal as apron) on all aprons 24 inch 4" diameter and larger. Diameter (inches) 12" Hold inside bars up 3 inches off bottom of apron. Extend outside bars to bottom of apron 26" Reinforced Edge 1 and attach to 2 inch by 2 inch by 1/4 inch Holes on 12" Centers (max.) 4) When specified, extend bottom cross bar through 12" 6" 42" **END VIEW** Lap Joint - Bolt or weld plate 42" 16" 21" to CMP pipe. 3/4 inch rebai 12" 84'' → A → - A -Maximum 10' 54" 18" 30" PLAN VIEW 3/8 inch steel plate 33" 12" 18'' 87'' 36" 12" 18" Finish Earth 12" 18'' Slope as Required 42" 12" 18'' **END VIEW** 12" 87" 18" 45" 87" 144" 6" to 8" 24" 96" 25" 35" 12" 87" City of Ankeny Supplemental Specifications: Flexible gravity pipe trench bedding material shall be Class I granular bedding material complying with Section 3010, 2.02. Material shall be placed according to Bedding Class F-3 per FIGURE 3010.103, unless otherwise Corrugated Metal Pipe 8" Toe Plate SIDE VIEW specified in the contract documents. METAL APRONS GUARD METAL PIPE APRON SIDE VIEW

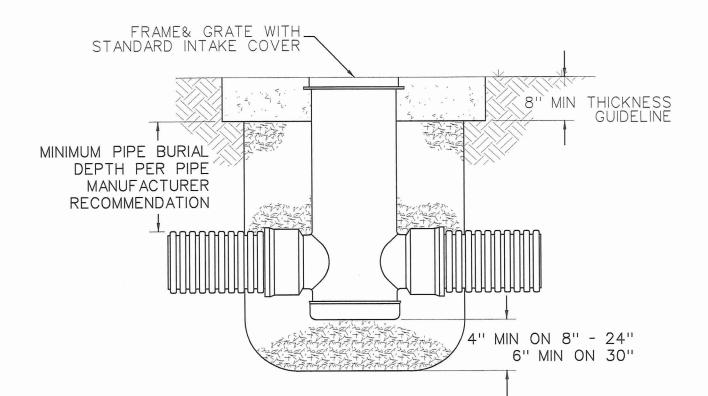
METAL PIPE APRONS & APRON GUARDS

C103/

NO SCALE

#### GRADING PLAN GENERAL NOTES

- A. UTILITY WARNING:
  THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY
  INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO
  GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES
  IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER
  DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
- C. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE
- D. ALL STORM SEWER PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE FLARED END
- CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 8" DEPTH TO FINISH GRADES.
- F. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM STREETS, DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES.



NYLOPLAST DRAIN BASIN DETAIL

C103 NO SCALE

CHURCH 914 NW ASH DRIVE

ANKENY, IA 50023 OD = Outside diameter of pipe

Min. = OD+18 inches OR 1.25xOD+12 inches (whichever is greater)

| (Bedding (                   | Class F-3)      |
|------------------------------|-----------------|
| Pipe<br>Diameter<br>(inches) | AASHTO<br>M 294 |
| 12                           | 8'              |
| 15                           | 9'              |
| 18                           | 9'              |
| 24                           | 9'              |
| 30                           | 9'              |
| 36                           | 9'              |
| 42                           | 8'              |
| 48                           | 8'              |
| 54                           | 8'              |
| 60                           | 81              |

ASTM D 3034

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Solid Wall

PVC PIPE

(Bedding Class F-3)

SDR 23.5 SDR 26 SDR 35 SDR 35 Exterior Profile

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--- --- ---

---

F 679

Solid Wall Corrug.

--- 24'

24' 24'

24' 24'

24'

24'

---

24'

HDPE PIPE

ALLOWABLE BEDDING CLASSES Pipe Material Storm Sewer Sanitary Sewer F-3 F-3 Ductile Iron F-3 HDPE Not allowed F-3 F-3

F 1803

24'

 Place remainder of bedding and backfill materials as specified in the contract documents.

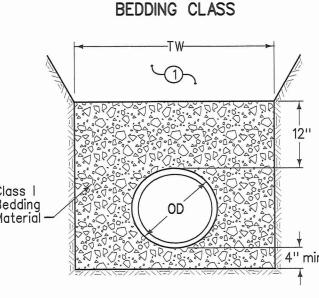
F 949

24'

24'

---

---



TW = Trench width at top of pipe:

ALLOWABLE BURY DEPTH

D 2680

(Truss Type)

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---

| Pipe Diameter (inches)       Class F-3 Bedding         4       40'         6       40'         8       40'         10       40'         12       40'         14       40'         16       40'         20       40'         24       38'         30       31'         36       30'         42       29'         48       27'         54       27' | Chedding | Cluss 1 37 |
|---|----------|------------|
| 6 40' 8 40' 10 40' 12 40' 14 40' 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'  | Diameter | Bedding    |
| 8 40' 10 40' 12 40' 14 40' 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'  | 4        | 40'        |
| 10 40' 12 40' 14 40' 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'  | 6        | 40'        |
| 12 40' 14 40' 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'   | 8        | 40'        |
| 14 40' 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'  | 10       | 40'        |
| 16 40' 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'   | 12       | 40'        |
| 18 40' 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'  | 14       | 40'        |
| 20 40' 24 38' 30 31' 36 30' 42 29' 48 27'   | 16       | 40'        |
| 24 38'<br>30 31'<br>36 30'<br>42 29'<br>48 27'  | 18       | 40'        |
| 30 31'<br>36 30'<br>42 29'<br>48 27'  | 20       | 40'        |
| 36 30 <sup>1</sup><br>42 29 <sup>1</sup><br>48 27 <sup>1</sup>  | 24       | 38'        |
| 42 29'<br>48 27'  | 30       | 31'        |
| 48 27'  | 36       | 30'        |
|   | 42       | 29'        |
| 54 27'  | 48       | 27'        |
|   | 54       | 27'        |

DUCTILE IRON, AWWA C151, CLASS 52 (Bedding Class F-3)

CLASS F-3

| Pipe<br>Diameter<br>(inches) | Class F-3<br>Bedding |
|------------------------------|----------------------|
| 4                            | 40'                  |
| 6                            | 40'                  |
| 8                            | 40'                  |
| 10                           | 40'                  |
| 12                           | 40'                  |
| 14                           | 40'                  |
| 16                           | 40'                  |
| 18                           | 40'                  |
| 20                           | 40'                  |
| 24                           | 38'                  |
| 30                           | 31'                  |
| 36                           | 30'                  |
| 42                           | 29'                  |
| 48                           | 27'                  |
| 54                           | 27'                  |

MANAGEMENT INFORMATION. 2018.187 **PROJECT** 

MARK DATE

PROJECT PRINCIPAL IN CHARGE : TIM OLSON ARCHITECT : DP CHECKED BY:TO DRAWN BY: HRH

DESCRIPTION

119 Second Street, PO Box 169 Polk City, IA 50226 Office: 515.984.3077 Website: www.ethos.archi

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KCL ENGINEERING

WEST DES MOINES, IA 50265

Tel. 515.984.3077

Tel. 515.279.3900

300 4TH STREET

Tel. 515.724.7938

PROJECT NAME.

KPFF, INC.

**SNYDER & ASSOCIATES** 

2727 SW SNYDER BLVD PO BOX 1159

ETHOS DESIGN GROUP, INC.

119 SECOND STREET, PO BOX 169

604 LOCUST STREET, SUITE 202

MECHANICAL AND ELECTRICAL ENGINEER

**RENOVATION & ADDITION FOR:** 

RESURRECTION LUTHERAN

DRAWING ISSUE INFORMATION.

ISSUE DATE: 06.21.2019

ISSUE FOR: 100% CONSTRUCTION DOCUMENT\$

ARCHITECT AND INTERIOR DESIGNER

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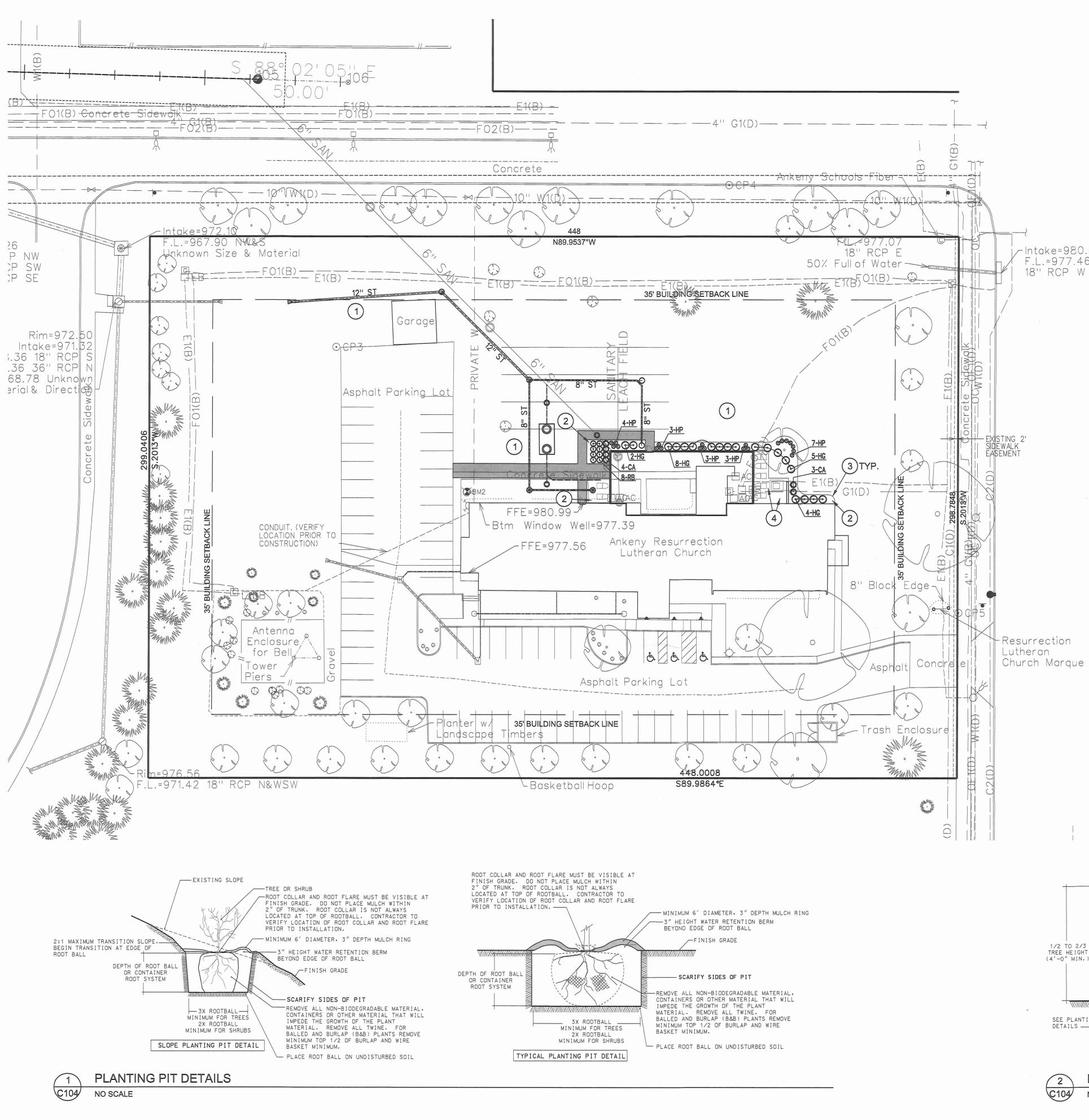
SHEET TITLE.

**GRADING AND EROSION CONTROL** PLAN

SHEET NO.

FLEXIBILE GRAVITY PIPE TRENCH BEDDING

C103/ NO SCALE



#### PLANTING PLAN GENERAL NOTES

- B. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY
- (ANSI Z60.1-LATEST EDITION).
- D. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.
- K. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY, HEALTHY, FREE OF DISEASE AND INSECTS AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL ALSO BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT VIGOROUS GROWTH.
- Intake=980.60 L. ALL PROPOSED PLANTS SHALL BE LOCATED AS SHOWN ON PLANS. ALL TREES TO BE PLANTED A MINIMUM DISTANCE OF 5 FEET FROM FILE 1977.46 PAVEMENTS AND 6 FEET FROM ALL HYDRANTS.
  - M. PLANTS SHALL BE TRUE TO SPECIES, SIZE AND VARIETY SPECIFIED. SUBSTITUTIONS OF PLANT MATERIALS IS NOT PERMITTED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT.
  - N. CONTRACTOR IS RESPONSIBLE FOR PLANTS AWAITING INSTALLATION AND SHALL PROTECT THEM FROM INJURY.

- 1. SEED ALL DISTURBED AREAS WITH TYPE 1 LAWN MIXTURE UNLESS OTHERWISE NOTED. ESTABLISH AS PER OWNER'S REQUIREMENTS.
- 2. PROVIDE 3-INCH DEPTH SHREDDED HARDWOOD MULCH ON ALL SHRUB BEDS TO PAVEMENT LIMIT OR EDGE LIMIT SHOWN.
- 3. CONTRACTOR TO INSTALL A VERTICAL CUT NATURAL EDGE TO A DEPTH OF 4-INCHES ON ALL PLANTING BEDS UNLESS OTHERWISE
- 4. PROVIDE 3-INCH DEPTH WASHED 1-1/2" RIVER ROCK UNDERLAID WITH WEED BARRIER FABRIC IN CONDENSER/TRANSFORMER AREA. PROVIDE COMMERCIAL GRADE VINYL EDGING TO SEPARATE AREA FROM PLANTING SPACES.

|                     | KEY | QTY | BOTANICAL NAME                             | COMMON NAME                      | SIZE    | COMMENTS          |
|---------------------|-----|-----|--|----------------------------------|---------|-------------------|
| ~0                  | CA  | 7   | Calamagrostis x acutiflora 'Karl Foerster' | KARL FOERSTER FEATHER REED GRASS | 24" Ht. | CONT. (3' O.C.)   |
| S AL                | HP  | 20  | Heuchera micrantha 'Palace Purple'         | 'PALACE PURPLE' CORAL BELLS      | #1 CNT. | CONT. (2' O.C.)   |
|                     | HG  | 19  | Hosta 'Guacamole'                          | 'GUACAMOLE' HOSTA                | #1 CNT. | CONT. (4.5' O.C.) |
| SHRUBS & PERENNIALS | RB  | 8   | Rosa 'BAlmas'                              | 'PINKTOPIA' ROSE                 | 24" Ht. | CONT. (3' O.C.)   |
|                     |     |     |  |                                  |         |                   |

### OPEN SPACE REQUIREMENTS

(AS PER CITY OF ANKENY SITE PLAN OPEN SPACE

REQUIREMENTS)

TOTAL IMPERVIOUS AREA = 42,092 SF TOTAL OPEN SPACE PROVIDED = 91,821 SF (133,912 - 42,092 SF)

91,821 SF OPEN SPACE PROVIDED (68.5%)

OPEN SPACE CALCULATIONS REQ'D OPEN SPACE / 3,000 SF = PLANT UNITS (P.U.) 26,783 SF / 3,000 SF = 8.93 P.U. 8.93 P.U. X 2 = 17.86 TREES REQ'D (41 EXISTING TREES PROVIDED) 8.93 P.U. X 6 = 53.58 SHRUBS REQ'D (54 SHRUBS

#### PAVEMENT SHADING CALCULATIONS (AS PER CITY OF ANKENY SITE PLAN PAVEMENT SHADING REQUIREMENTS)

27,600 SF PAVEMENT X 20% = 5,5207 / 706 = 7.81 TREES REQUIRED 9 EXISTING TREES PROVIDED

STAKING PLAN

STAKING PLAN

(Trees 2 1/2 inch diameter or smaller)

(Trees larger than 2 1/2 inch diameter)

1 Wrap trunk from ground line to first

DRAWING ISSUE INFORMATION. ISSUE FOR: 100% CONSTRUCTION DOCUMENTS ISSUE DATE: 06.21.2019

**RENOVATION & ADDITION FOR:** 

RESURRECTION LUTHERAN

119 Second Street, PO Box 169 Polk City, IA 50226

Office: 515.984.3077 Website: www.ethos.archi

2727 SW SNYDER BLVD PO BOX 1159

ARCHITECT AND INTERIOR DESIGNER ETHOS DESIGN GROUP, INC.

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STRUCTURAL ENGINEER

DES MOINES, IOWA 50309

WEST DES MOINES, IA 50265

KCL ENGINEERING

Tel. 515.984.3077

Tel. 515.279.3900

300 4TH STREET

Tel. 515.724.7938

PROJECT NAME.

914 NW ASH DRIVE

ANKENY, IA 50023

CHURCH

KPFF, INC.

SNYDER & ASSOCIATES

MARK DATE DESCRIPTION

MANAGEMENT INFORMATION.

PROJECT 2018.187

PROJECT PRINCIPAL IN CHARGE : TIM OLSON ARCHITECT : DP

CHECKED BY :TO DRAWN BY: HRH

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SHEET TITLE.

LANDSCAPE PLAN

SHEET NO.

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

C. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK"

H. MULCH SHALL NOT BE PLACED AROUND THE COLLAR OF SHRUB OR TREE. PROVIDE A MINIMUM OF 2" BETWEEN MULCH AND COLLAR OF SHRUB OR TREE.

I. ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS.

J. TREE OR SHRUB SHALL STAND PLUMB. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING.

#### PLANTING PLAN CONSTRUCTION NOTES

PLANT SCHEDULE

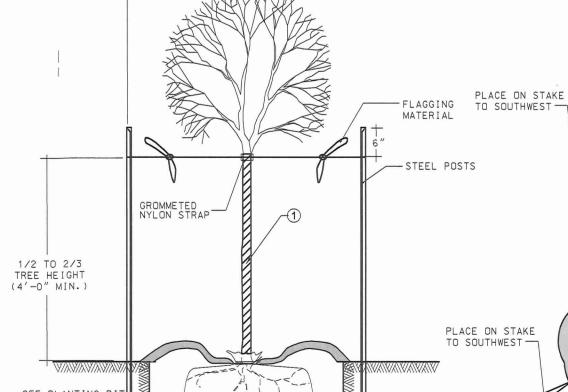
|                     | KEY  | QTY  | BOTANICAL NAME                             | COMMON NAME                      | SIZE    | COMMENTS          |
|---------------------|------|------|--|----------------------------------|---------|-------------------|
| - 0                 | CA   | 7    | Calamagrostis x acutiflora 'Karl Foerster' | KARL FOERSTER FEATHER REED GRASS | 24" Ht. | CONT. (3' O.C.)   |
| SHRUBS & PERENNIALS | HP   | 20   | Heuchera micrantha 'Palace Purple'         | 'PALACE PURPLE' CORAL BELLS      | #1 CNT. | CONT. (2' O.C.)   |
| EBB                 | HG   | 19   | Hosta 'Guacamole'                          | 'GUACAMOLE' HOSTA                | #1 CNT. | CONT. (4.5' O.C.) |
| SH                  | RB   | 8    | Rosa 'BAlmas'                              | 'PINKTOPIA' ROSE                 | 24" Ht. | CONT. (3' O.C.)   |
|                     |      |      |  |                                  |         |                   |
| NOTE:               | IN T | HE E | EVENT OF A DISCREPANCY BETWEEN THE QUANTIT | Y SHOWN IN THE PLANT SCHEDULE    |         |                   |

AND THE QUANTITY SHOWN ON PLAN, THE QUANTITY SHOWN ON PLAN SHALL GOVERN.

TOTAL SITE AREA = 133,912 SF

MINIMUM OPEN SPACE REQUIRED (20%) 133,912 SF X (.20) = 26,783 SF REQ'D OPEN SPACE

PROVIDED: 46 EXISTING SHRUBS + 8 NEW SHRUBS) TREE HEIGHT -



SEE PLANTING PI

**DECIDUOUS TREE STAKING DETAIL** 

NO SCALE