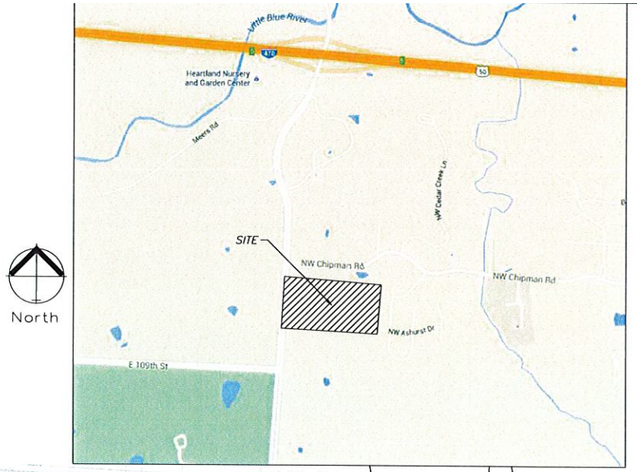
THE SUMMIT CHURCH

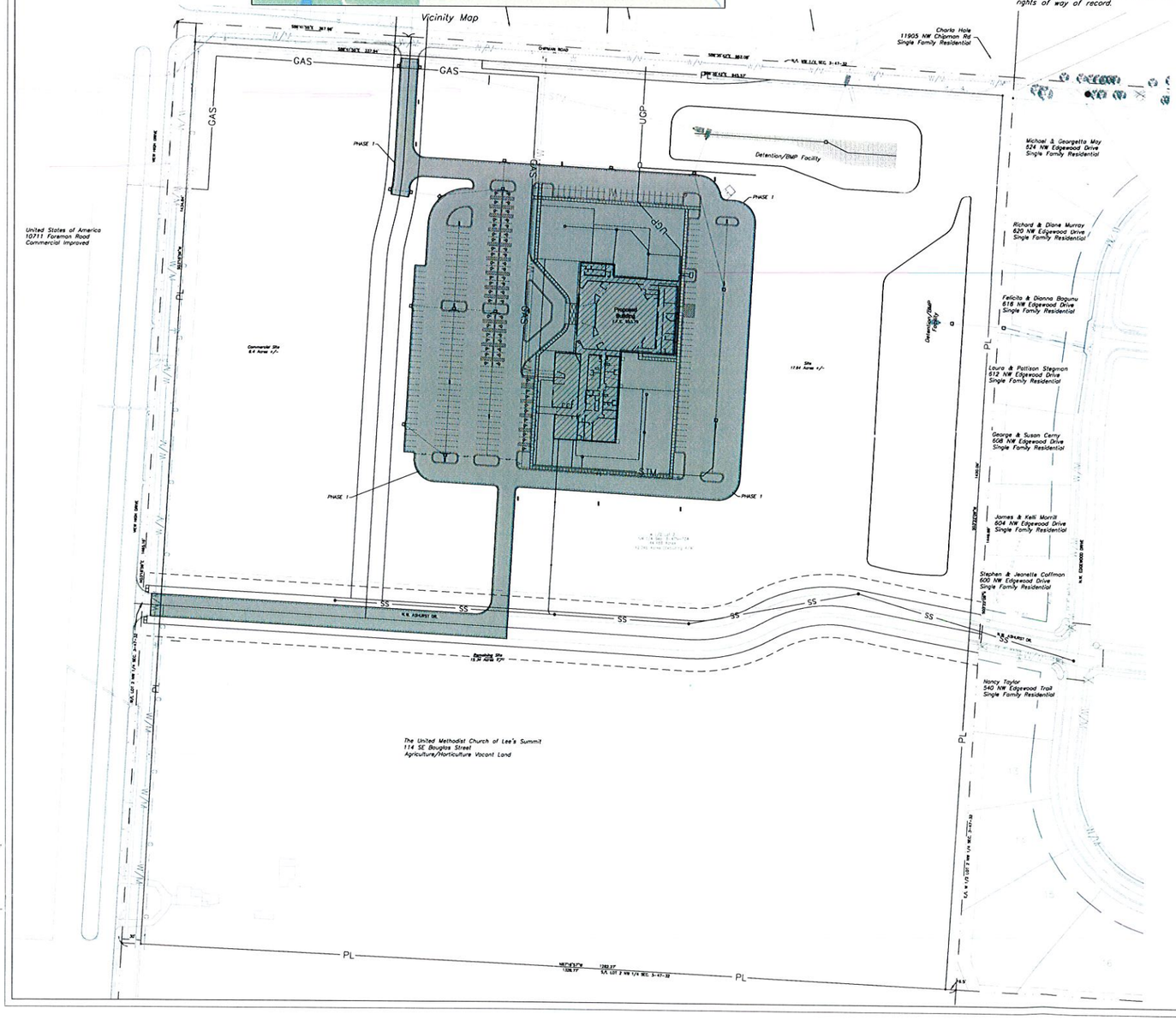
CONSTRUCTION PLANS

SEC-3 TWP-47 RNG-32 W 1/2 NW 1/4

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



Vicinity Map



North

0 50' 100' 200'

Cover Sheet

SCALE: 1" = 100'

INDEX OF SHEETS:

PROPERTY DESCRIPTION

Description taken verbatim from Deed of Trust, Instrument No. 2010E0080118

All that part of the West one half of Lot 2 of the NW 1/4 of Section 3, Township 47 N, Range 32 W, in Lee's Summit, Jackson County, Missouri, except the East 16.5 feet, and except that part in existing street rights of way, more particularly described as follows:
Commencing at the Northwest corner of said Section 3; thence S 86°41'55" E along the North line of said 1/4 Section, a distance of 30.00 feet; thence S 03°18'59" W, a distance of 30.00 feet to the Point of Beginning, said point being the intersection of the existing East right of way line of View High Drive and the South line of the existing right of way line of Chipman Road; thence S 86°41'55" E parallel with the North line of said 1/4 Section, a distance of 337.94 feet; thence S 86°35'42" E parallel with the North line of said 1/4 Section, a distance of 945.57 feet; thence S 03°22'09" W, West of, parallel with and 16.5 feet distant from the East line of the West 1/2 of said Lot 2, a distance of 1420.09 feet to a point on the South line of the West 1/2 of said Lot 2; thence N 87°16'57" W along said South line, a distance of 1282.22 feet; thence N 03°18'59" E along a line, East of, parallel with and 30.00 feet distant from the West line of said Lot 2, a distance of 1434.84 feet to the Point of Beginning, containing 42.046 acres, more or less, all being subject to easements, restrictions, and rights of way of record.

Site Data Table

Total Area	1,831,226.10 Sq. Ft. (42.04 Ac.)
Area North of Ashurst Drive	1,169,284.28 Sq. Ft. (26.84 Ac.)
Area South of Ashurst Drive	661,940.82 Sq. Ft. (15.20 Ac.)

Phase 1 Impervious Area

(All Property North of Ashurst Drive.)

Area	1,169,284.28 Sq. Ft. (26.84 Ac.)
Building	34,393.00 Sq. Ft. (0.79 Ac.)
Asphalt/Sidewalk	188,830.39 Sq. Ft. (4.34 Ac.)
Impervious Area	223,223.40 Sq. Ft. (5.13 Ac. = 19.1% of Site)
Parking Spaces	289 Standard / 14 Handicap

Future Impervious Area (Includes Phase 1)

(All Property North of Ashurst Drive.)

Area	1,169284.28 Sq. Ft. (26.84 Ac.)
Building	67,055.00 Sq. Ft. (1.54 Ac.)
Asphalt/Sidewalk	235,625.84 Sq.Ft. (5.41 Ac.)
Impervious Area	302,680.84 Sq. Ft. (6.95 Ac. = 25.9% of Site)
	(Adds more Asphalt)

Site Improvement Notes

Sanitary Sewer Improvements
- The site will require a gravity sanitary main extension from the existing Edgewood Trail subdivision to the east. The main will extend toward to the northeast corner of this parcel of land and then goes east toward existing City Manhole #27-031, located at the northeast corner of Lot 4, Edgewood Trails. This sewer main extension will require an offsite sanitary sewer easement that does not currently exist and will need to be negotiated with the adjacent property owners

Water Main Improvements
- The existing 8" water main locate at the west end of Ashurst Drive in Edgewood Trails will be extended onto the site and three (3) new fire hydrants will be required to provided adequate fire access to the site. The main will then continue north and be connected to the existing public main located on the south side of Chipman Road. At this time this main extension is anticipated to be private and will require a backflow vault prior to the connection at Chipman Road and Amhurst Drive. The water service will then be tapped separately from the existing 8" main on Chipman Road with the meter and pit being located near the north property line

Storm Sewer
- Enclosed pipe systems and inlets will collected and convey the onsite storm water runoff and direct it toward the new detention facility located at the northeast corner of the site. The storm sewer shall be designed to convey the 10 year storm event and the building runoff will be collected and directed into the enclosed pipe system.

Storm Water Detention
- The site will be designed to control the storm water runoff per the current standards as set forth in APWA Section 5600. The system will be an open aired basin in Phase 1 and release into the existing channel located on the South and East side of Chipman Road. This system can be converted in later phases into an underground system to allow for additional parking to be built atop the detention system.

Storm Water Quality Elements
- The detention system will incorporate an infiltration system into the bottom of the basin to provide the opportunity for infiltration back into the existing ground. The system will be designed to handle and control the 2 year storm flows and will consist of a gravel base and filter fabric. Additionally the existing storm inlet located on the eastern side of the site will be converted into a infiltration system to control the storm discharge east towards Eastwood Trails and the provide a water quality element for the storm drainage being discharged to the east. No developed runoff flows are designed to be released into this system, only the open space grass areas shall drain easterly into this system

Road Extension to View High
- The westerly road extension from the parking area to View High road is intended to be temporary in nature and not designed to be the final location. This access will be right in / right out only and will be permanently located once the final plans for the "Future Development Area" have been developed. At that time Amhurst Drive will be required to extend westerly to View High Drive, however the apparent gap located between the Westerly property line of Eastwood Trails and the Easterly property line of this parcel needs to be addressed.

Chipman Road
- No improvements are anticipated for Chipman Road

View High Drive
- No improvements are anticipated for View High Drive

ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE UNIFIED DEVELOPMENT ORDINANCE ARTICLE 12 IN TERMS OF PAVING THICKNESS AND BASE

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Planning & Codes Admin
-2015-158-

Phase 1 Impervious Area

Phase 1 Building

OIL - GAS WELLS
ACCORDING TO EDWARD ALTON'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

KCP&L ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED BY SEPARATE DOCUMENT
3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTION AT 816.969.1800 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING

Professional Registrations
Missouri
Engineering 2005002
Surveying 2005008
Kansas
Engineering E-189
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA28

The Summit Church
33E 1 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH - LSMO
Issue Date: October 15, 2015

REVISIONS
11-17-15 Modified
01-25-16 City Com
03-18-16 City Com
4-8-16 City Comm
5-12-16 Final P

COVER SHEET
The Summit Church: Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
NUMBER 2012022
PROFESSIONAL ENGINEER
Matthew J. Schlicht
MO PE-2008015
KS PE 1997
OK PE 2822
NE PE-E-13143

C.001

TOPOGRAPHIC SURVEY

Easements are shown in accordance with Title Commitment No. NCS-255758-KCTY provided by First American Title Insurance Company, dated September 19, 2006.
According to Lee's Summit's "ABANDONED WELLS STUDY", page 101, figure B-11, there are no Oil or Gas Wells on this property.
This Property is in Zone C according to FEMA, FIRM, 0019C, 1989.
Community Panel Number 290174.
This is an Urban Class Property.
Bearings are Grid Bearings.

S86°41'55"E 367.96'
337.94'
S86°41'55"E
CHIPMAN ROAD
S86°35'42"E 962.08'
S86°35'42"E 945.57'
N/L NW 1/4 SEC. 3-47-32

W 1/2 Lot 2
NW 1/4 Sec. 3-47N-32W
44.488 Acres
42.046 Acres (Excluding R/W)

VIEW HIGH DRIVE
W/L LOT 2 NW 1/4 SEC. 3-47-32
S03°18'59"W 1434.84'
N03°18'59"E 1465.16'

N.W. EDGEWOOD DRIVE
N.W. ASHURST DR.
E/L W 1/2 LOT 2 NW 1/4 SEC. 3-47-32
S03°22'09"W 1420.09'
S03°22'09"W 1449.89'

N87°16'57"W 1328.77'
1282.27'
S/L LOT 2 NW 1/4 SEC. 3-47-32
16.5'

EXISTING 10' ENCROACHMENT EASEMENT DOC. # 2002 0068343
EXISTING 17' ELECTRIC EASEMENT DOC. # 2002 0040121
EXISTING 10' SWR & ANCHOR EASEMENT DOC. # 2003 0074327
EXISTING 35' GAS LINE EASEMENT DOC. # 729604
EXISTING 35' WATER LINE EASEMENT DOC. # I 238927; BK. 662 PG. 361 RECORDED MARCH 24, 1976
EXISTING 25' GAS EASEMENT DOC. # 395151; BK. 1174 PG. 249 RECORDED MAY 21, 1969

SURVEYOR'S CERTIFICATE
I hereby certify that the within survey is based on an actual survey made by me or under my direct supervision and that said survey was performed in accordance with the requirements of the standards for property boundary surveys adopted by the Missouri Board for Architects, Professional Engineers and Land Surveyors.

Jerry D. Maxey L.S. # 1795 Date

PROPERTY DESCRIPTION
A tract part of the West one half of Lot 2 of the NW 1/4 of Section 2, Township 47 N, Range 32 W, in Lee's Summit, Jackson County, Missouri, except the East 16.5 feet, and except that part in existing street rights of way, more particularly described as follows: Commencing at the Northeast corner of said Section; thence S 86°41'55" E along the North line of said 1/4 Section, a distance of 30.00 feet; thence S 03°18'59" W, a distance of 30.00 feet to the Point of Beginning, said point being on the intersection of the existing East right of way line of View High Drive and the South line of the existing right of way line of Chipman Road; thence S 86°41'55" E parallel with the North line of said 1/4 Section, a distance of 337.94 feet; thence S 86°35'42" E parallel with the North line of said 1/4 Section, a distance of 945.57 feet; thence S 03°22'09" W, West of, parallel with and 16.5 feet distant from the East line of the West 1/2 of said Lot 2, a distance of 1420.09 feet to a point on the South line of the West 1/2 of said Lot 2; thence N 87°16'57" W along said South line, a distance of 1282.27 feet; thence N 03°18'59" E along a line, East of, parallel with and 30.00 feet distant from the West line of said Lot 2, a distance of 1434.84 feet to the Point of Beginning, containing 42.046 acres, more or less, being subject to easements, restrictions, and rights of way of record.

SUMMIT SURVEY COMPANY
526 S.W. THIRD STREET
LEE'S SUMMIT, MISSOURI 64063
TEL 816-347-3620
FAX 816-347-9291

X = Fenceline
WV = Water Valve (W.V.)
FH = Fire Hydrant (F.H.)
PP = Power Pole (P.P.)
LP = Light Pole (L.P.)
● = Survey Monument Found & Noted
Section Line
Ex. = Existing

N
50 0 50 100
SCALE IN FEET

TOPOGRAPHIC SURVEY
SCALE IS NOT TO SCALE

TOPOGRAPHIC SURVEY
SCALE: 1" = 80'

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING

Professional Registr
Missouri
Engineering 2006002
Surveying 2005003
Kansas
Engineering E-189
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA282

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

TOPOGRAPHIC SURVEY
The Summit Church:
Lee's Summit, Jackson County, Missouri

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MAY 12 2016
Planning & Codes Admin
-2015-158-

Matthew J. Schl
MO PE 2006019
KS PE 19071
OK PE 2522
NE PE E-143

REVISIONS
11-17-15 Modified
01-25-16 City Comm
03-18-16 City Comm
4-8-16 City Comm
5-12-16 Final Pl

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MAY 12 2016
Planning & Codes Admin

2015-158

North

25' 50' 100'

DEMOLITION PLAN

SCALE: 1" = 50'

S86°41'55"E 367.96'

S86°41'55"E 337.94'

S86°35'42"E 962.08'

N/4 NW 1/4 SEC. 3-47-32

S86°35'42"E 945.57'

36" MAPLE
Tree To Be Removed
ASPHALT
20" ELM
Tree To Be Removed
HOUSE
24" E
Tree To Be Removed
18" PINE
Tree To Be Removed
30" OAK
Tree To Be Removed
36" MAPLE
SEPTIC TANK
24" SWEET GUM
16" ELM
24" SWEET GUM
Tree To Be Removed
EX. WOOD FENCE
BARN
Tree To Be Removed
Tree To Be Removed
Tree To Be Removed

1434.84'

S03°18'59"W

EX. WOOD FENCE

CORRAL

SHED

EX. WOOD FENCE

EXISTING 25' GAS EASEMENT
DOC. # 54828, BK. 161, PG 1006
RECORDED JAN 07, 1970

1420.09'

S03°22'09"W

1449.89'

S03°22'09"W

18" HACKBERRY
Tree To Be Removed

24" HACKBERRY
Tree To Be Removed
24" OAK
Tree To Be Removed

TWN HACKBERRY
Tree To Be Removed

42" HACKBERRY
Tree To Be Removed

TRIPLE HACKBERRY
Tree To Be Removed

30" WALNUT
Tree To Be Removed

N 1/2 Lot 2
NW 1/4 Sec. 3-47N-32W
44.488 Acres
42.046 Acres (Excluding R/W)

N03°18'59"

Tree To Be Removed
24" OAK

NW 1/4 SEC. 3-47-32

36" OAK
Tree To Be Removed

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING

Professional Registrations
Missouri
Engineering 2005021
Surveying 2005008
Kansas
Engineering E-1696
Surveying LS-218
Oklahoma
Engineering 8254
Nebraska
Engineering CA282

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

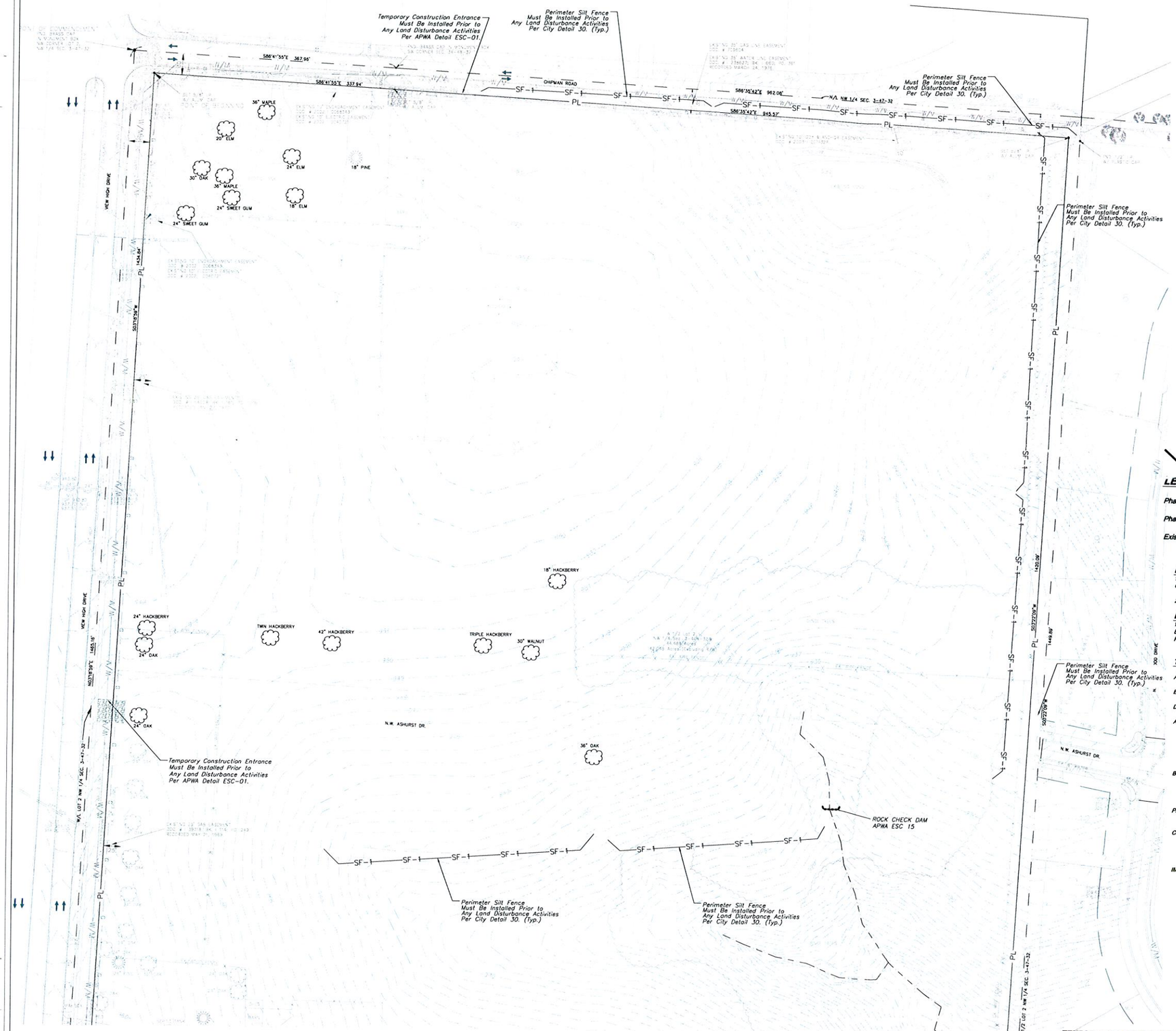
Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 19, 2015

Demolition Plan
The Summit Church:
Lee's Summit, Jackson County, Missouri

Matthew J. Schli
MO PE 2006019
KS PE 19071
OK PE 25226
NE PE E-1433

REVISIONS
11-17-15 Modified
01-25-16 City Comm
03-18-16 City Comm
4-8-16 City Comm
5-12-16 Final PD

C.010



0 35' 70' 140'

North

PRE CLEARING PLAN

SCALE: 1" = 70'

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:

SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.

STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.

TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:

INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEATRYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5811.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

LEGEND

Phase 1 Silt Fence ——SF-1——SF-1——

Phase 2 Silt Fence ——SF-2——SF-2——

Existing Water Line W

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

EROSION CONTROL DESCRIPTION:

1.) SILT FENCE SHALL BE PLACE AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS

2.) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

1.) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A.) INSTALLATION

1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED

2.) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.

3.) IF SLOPE TOWARDS THE PUBIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H : 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.

4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS

5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE

6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE

7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

B.) TROUBLESHOOTING

1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:

-INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS

- INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES

-SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC

-PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY

C.) INSPECTION AND MAINTENANCE

1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT

2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL

3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED

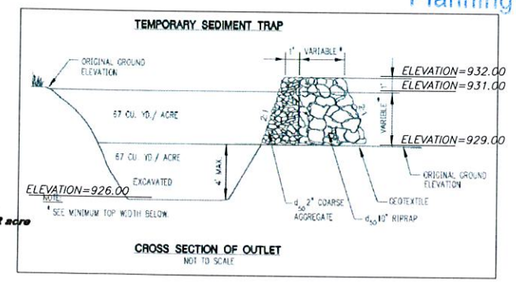
4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY

5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

TEMPORARY SEDIMENT TRAP #1 CALCULATIONS:

1. **TOTAL AREA DRAINING TO BASIN = 7.47 ac**
2. **REQUIRED VOLUME OF TRAP = 3,600cft PER acre**
   = 7.47 X 3,600 = 26,892 cft
3. **VOLUME OF PROPOSED TRAP = 35,000 cft**

TEMPORARY SEDIMENT TRAP



CROSS SECTION OF OUTLET

NOT TO SCALE

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING

Professional Registrations
Missouri
Engineering 2006002161
Surveying 2005008311
Kansas
Engineering E-1898
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA282

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

ESC PHASE 1 PLAN
The Summit Church:
Lees Summit, Jackson County, Missouri

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C.050

INACTIVE AREA STABELIZATION PLAN

SCALE: 1" = 70'

North

0 35' 70' 140'

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

- Phase 1 Silt Fence —SF-1—SF-1—
- Phase 2 Silt Fence —SF-2—SF-2—
- Proposed Storm Line —S—S—S—
- Existing Storm Line —X-STM-

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

Secondary Silt Fence To Be Installed After Major Grading Per APWA Detail ESC-11. (typ.)

Gutter Buddy or Equivalent

Proposed Building F.F.E. 953.75

Commercial Site 6.4 Acres +/-

Remaining Site 15.34 Acres +/-

Install Sediment Trap Outlet Faircloth Skimmer See Detail on C.053

ROCK CHECK DAM APWA ESC 15

N.W. ASHURST DR.

N.W. EDGEWOOD DRIVE

NEW HIGH DRIVE

CHIPMAN ROAD

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Engineering CA28

The Summit Church
3381 Northw est Chipman Road
Lee's Summit, Ja ckson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

ESC PHASE 2 PLAN
The Summit Church:
Lee's Summit, Jackson County, Missouri

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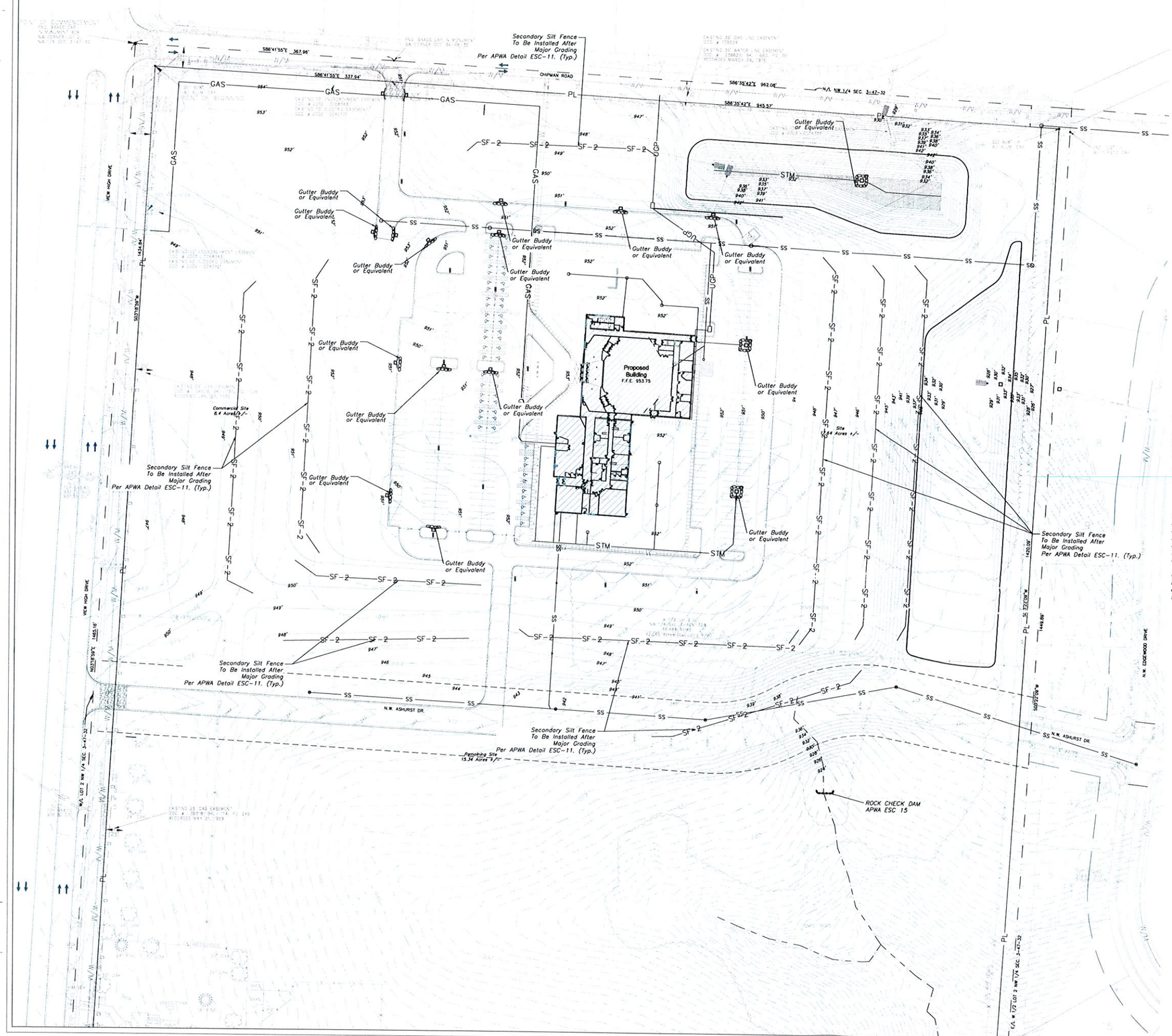

0 35' 70' 140'

North

FINAL RESTORATION PLAN

SCALE: 1" = 70'

SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE

PHASE 2 SILT FENCE —SF-2—SF-2—

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES:

1) The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion at their items of work. These devices shall be maintained until the final devices are in place.
2) Per Unified Ordinance Section 14.090.B.2. All portions of the site not covered with paving or buildings shall be landscaped. Open areas not covered with other materials shall be covered with sod. Ground cover shall be utilized on all slopes in excess of 3:1 slope.

SEED AND MULCH NOTES:

Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix

Seed and Fertilizer Rate.
Mix I – Rye Grass / Blue Grass ---------- 100 lbs. per Acre
Mix II – Tall Fescue / Blue Grass ------- 195 lbs. per Acre
Lime ----------2000 lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ----------800 to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:
Lime – 100% of specified quantity
Fertilizer – 75% of the specified quantity
Seed – 50% of the specified quantity
Mulch – 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided

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Oklahoma
Engineering 6254
Nebraska
Engineering CA282

The Summit Church
33811 North West Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

ESC Phase 3 Plan
The Summit Church:
Lee's Summit, Jackson County, Missouri

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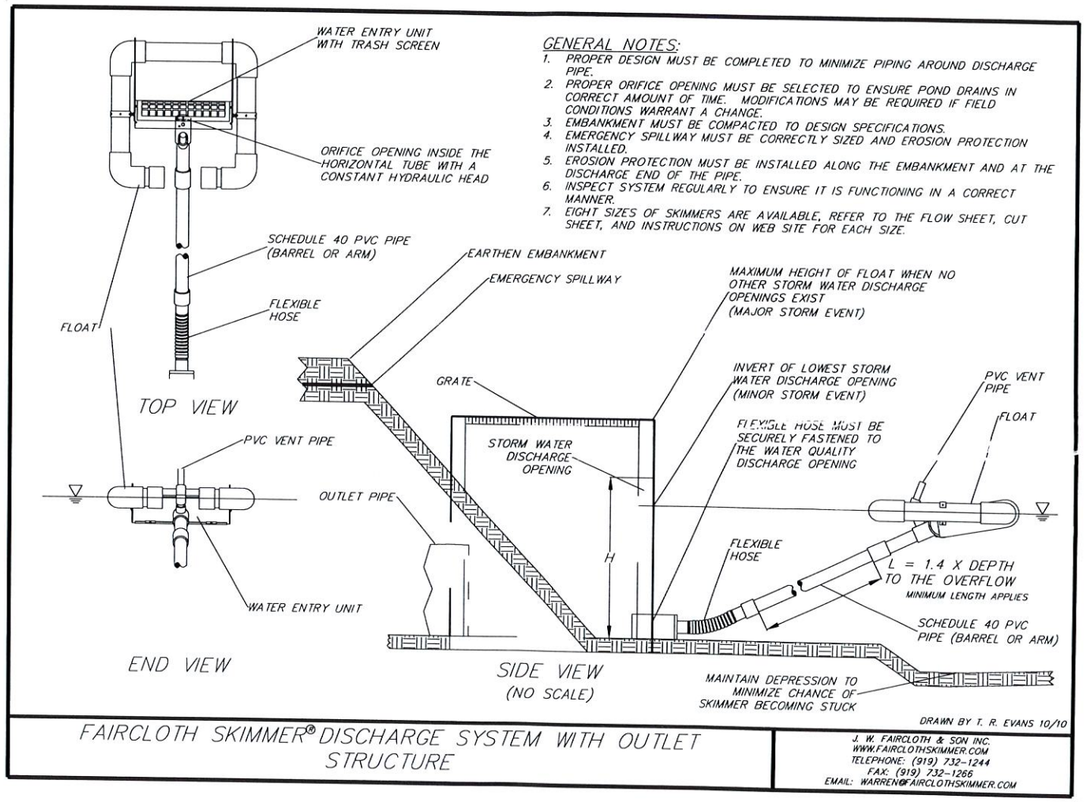

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Professional Registr
Missouri
Engineering 2005002
Surveying 2005008
Kansas
Engineering E-1696
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA282

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

ESC - Details
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Lee's Summit, Jackson County, Missouri

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01-25-16 City Comn
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C.053

SITE PLAN

SCALE: 1" = 50'

North

0 25' 50' 100'

Note:
All Access Roads, Including The Access From Chipman Road And View High Drive Shall Be Constructed To Public Standards

Indicates Fire Lane and Heavy Asphalt

Indicates Light Asphalt

See C.600 for Asphalt Details

Indicates Standard City Residential and Commercial Pavement Section. Reference C.202 & C.203

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Site Data Table

Total Area	1,831,226.10 Sq. Ft. (42.04 Ac.)
Area North of Ashurst Drive	1,169,284.28 Sq. Ft. (26.84 Ac.)
Area South of Ashurst Drive	661,940.82 Sq. Ft. (15.20 Ac.)

Phase 1 Impervious Area
(All Property North of Ashurst Drive.)

Area	1,169,284.28 Sq. Ft. (26.84 Ac.)
Building	34,393.00 Sq. Ft. (0.79 Ac.)
Asphalt/Sidewalk	188,830.39 Sq. Ft. (4.34 Ac.)
Impervious Area	223,223.40 Sq. Ft. (5.13 Ac. = 19.1% of Site)
Parking Spaces	286 Standard / 54 Handicap

Future Impervious Area (Includes Phase 1)
(All Property North of Ashurst Drive.)

Area	1,169,284.28 Sq. Ft. (26.84 Ac.)
Building	67,055.00 Sq. Ft. (1.54 Ac.)
Asphalt/Sidewalk	235,625.84 Sq.Ft. (5.41 Ac.)
Impervious Area	302,680.84 Sq. Ft. (6.95 Ac. = 25.9% of Site) (Adds more road)

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Missouri
Engineering 2006021
Surveying 2005083
Kansas
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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
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The Summit Church
3381 Northwest Chipman Road
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Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

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SITE PLAN
The Summit Church:
Lee's Summit, Jackson County, Missouri

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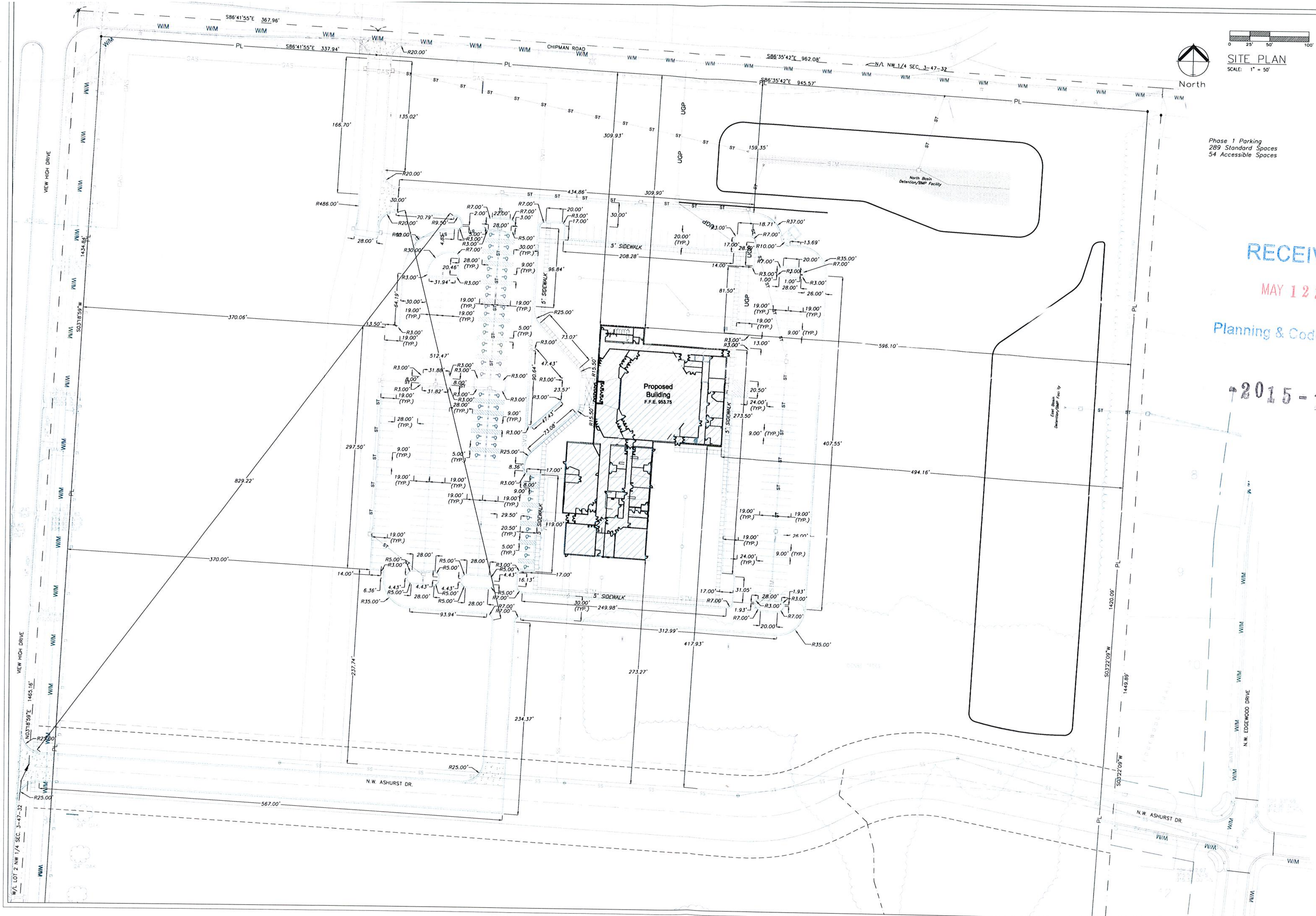

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Missouri
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Surveying 2005008
Kansas
Engineering E-169
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA282

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

DIMENSION PLAN
The Summit Church:
Lee's Summit, Jackson County, Missouri

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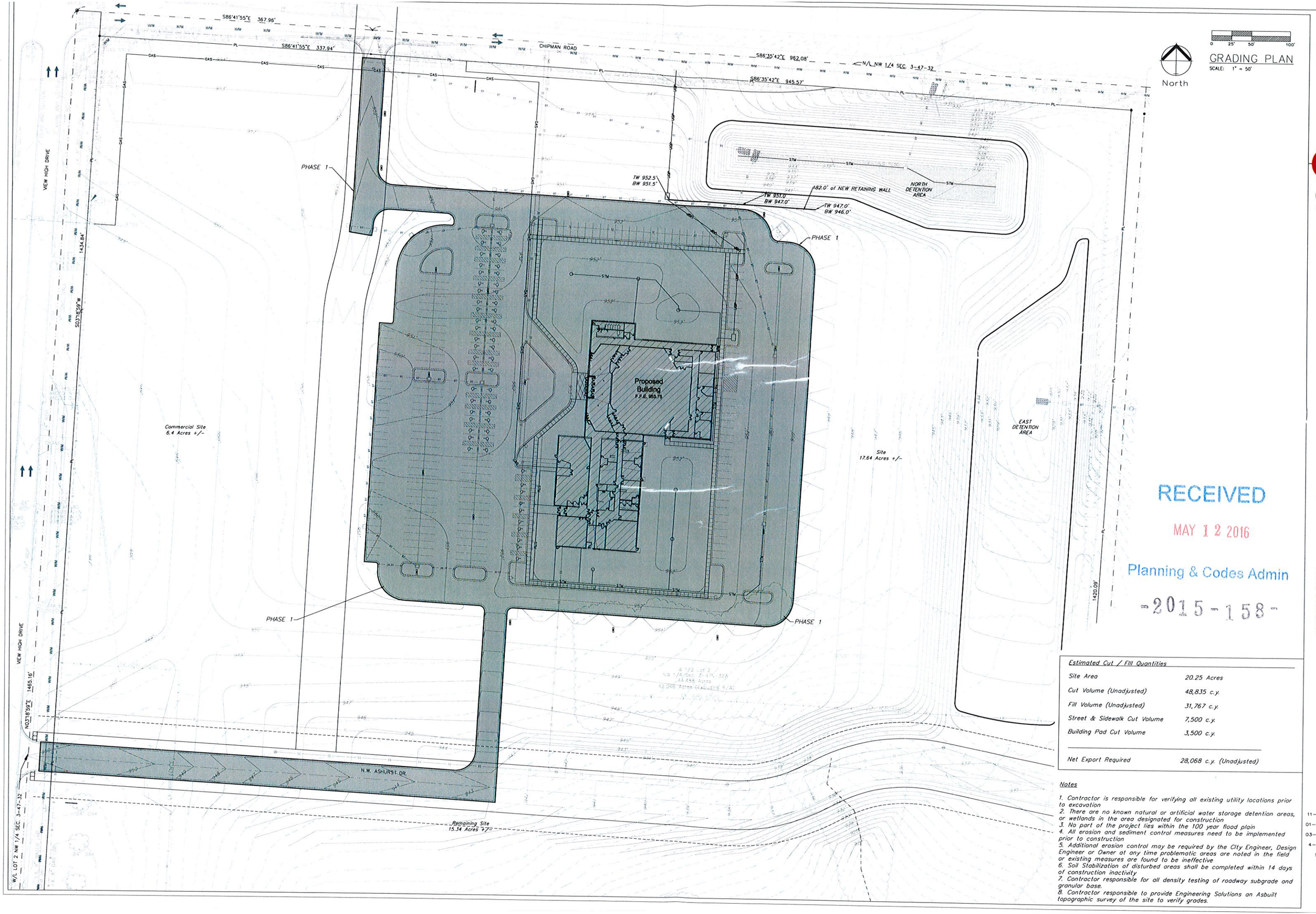

GRADING PLAN

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Estimated Cut / Fill Quantities	
Site Area	20.25 Acres
Cut Volume (Unadjusted)	48,835 c.y.
Fill Volume (Unadjusted)	31,767 c.y.
Street & Sidewalk Cut Volume	7,500 c.y.
Building Pad Cut Volume	3,500 c.y.
Net Export Required	28,068 c.y. (Unadjusted)

Notes

1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
7. Contractor responsible for all density testing of roadway subgrade and granular base.
8. Contractor responsible to provide Engineering Solutions an Asbuilt topographic survey of the site to verify grades.

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Missouri
Engineering 2005003
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Kansas
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Surveying LS-318
Oklahoma
Engineering 6254
Nebraska
Engineering CA28

The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 15, 2015

GRADING PLAN
The Summit Church:
Lee's Summit, Jackson County, Missouri

Matthew J. Schil
MO PE 2006019
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NE PE E-143

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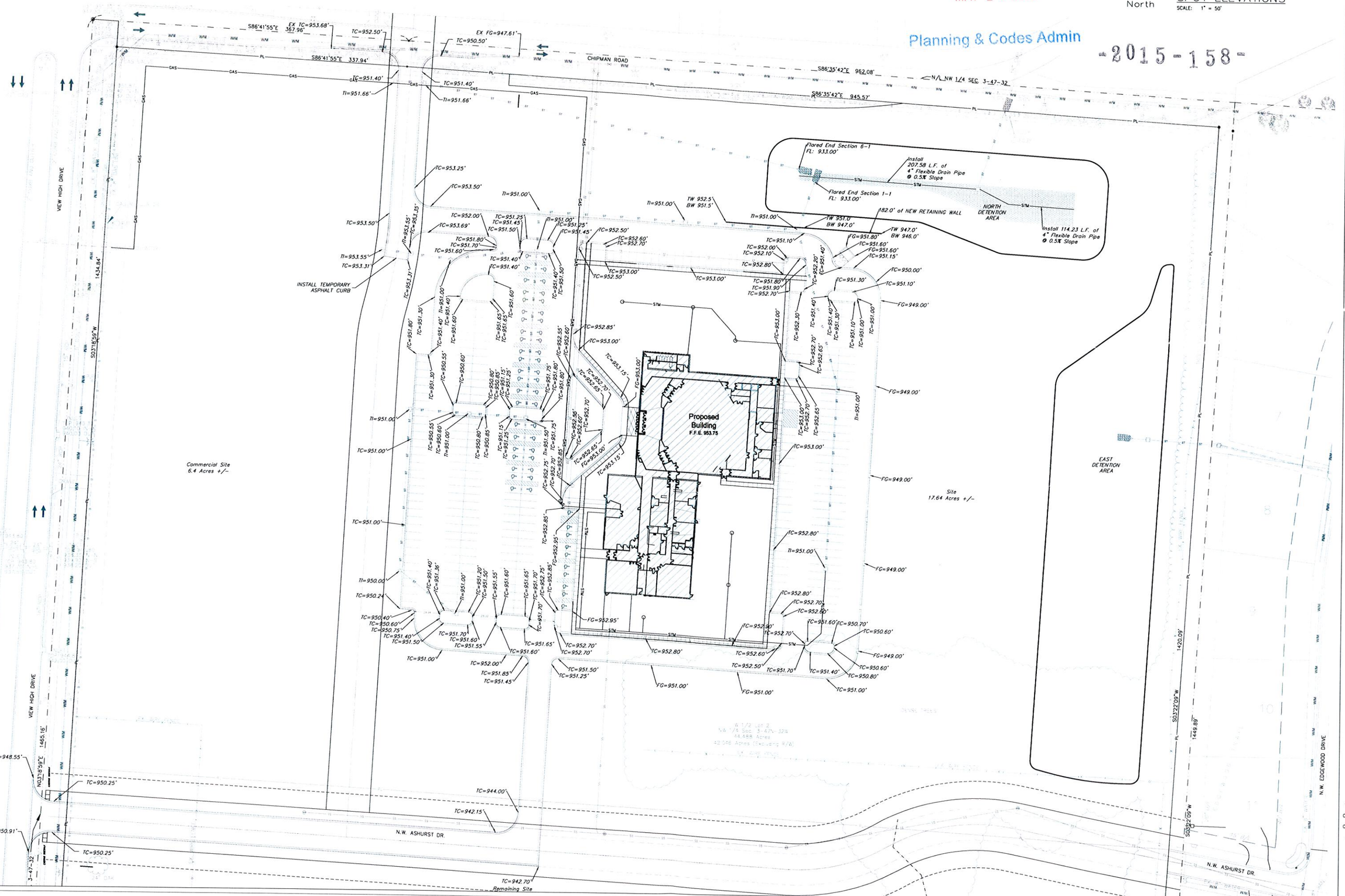
North

0 25' 50' 100'

SPOT ELEVATIONS
SCALE: 1" = 50'



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Professional Registr
Missouri
Engineering 2005003
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Kansas
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Nebraska
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The Summit Church
3381 Northwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
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SPOT ELEVATIONS
The Summit Church:
Lee's Summit, Jackson County, Missouri

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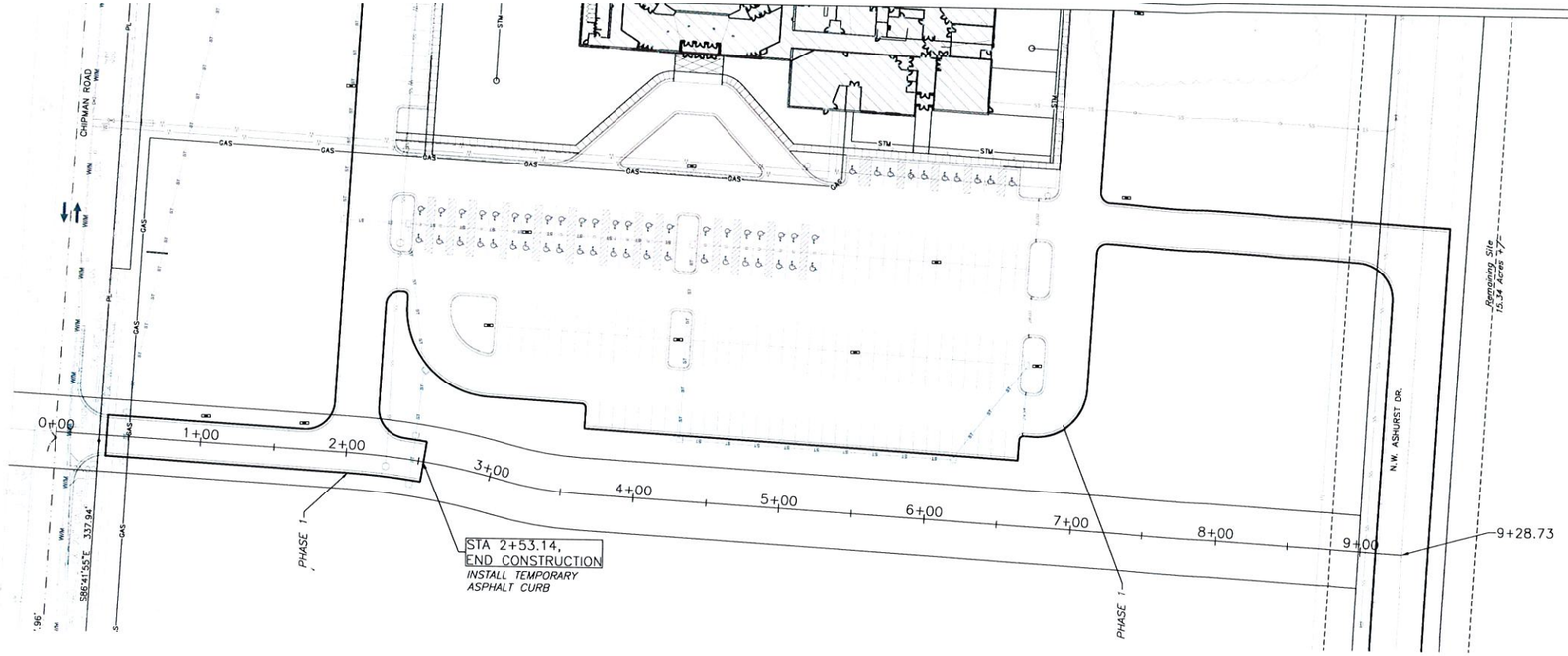
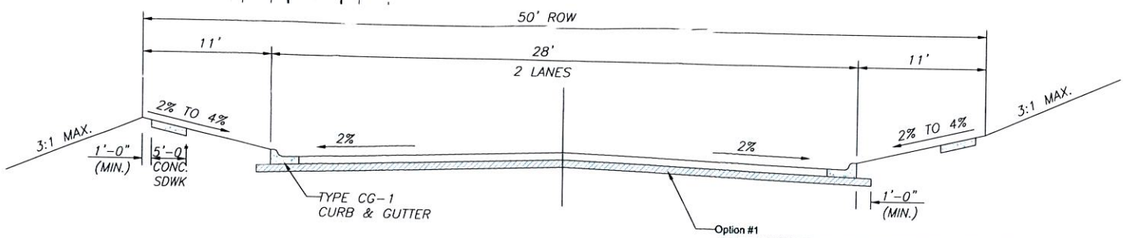


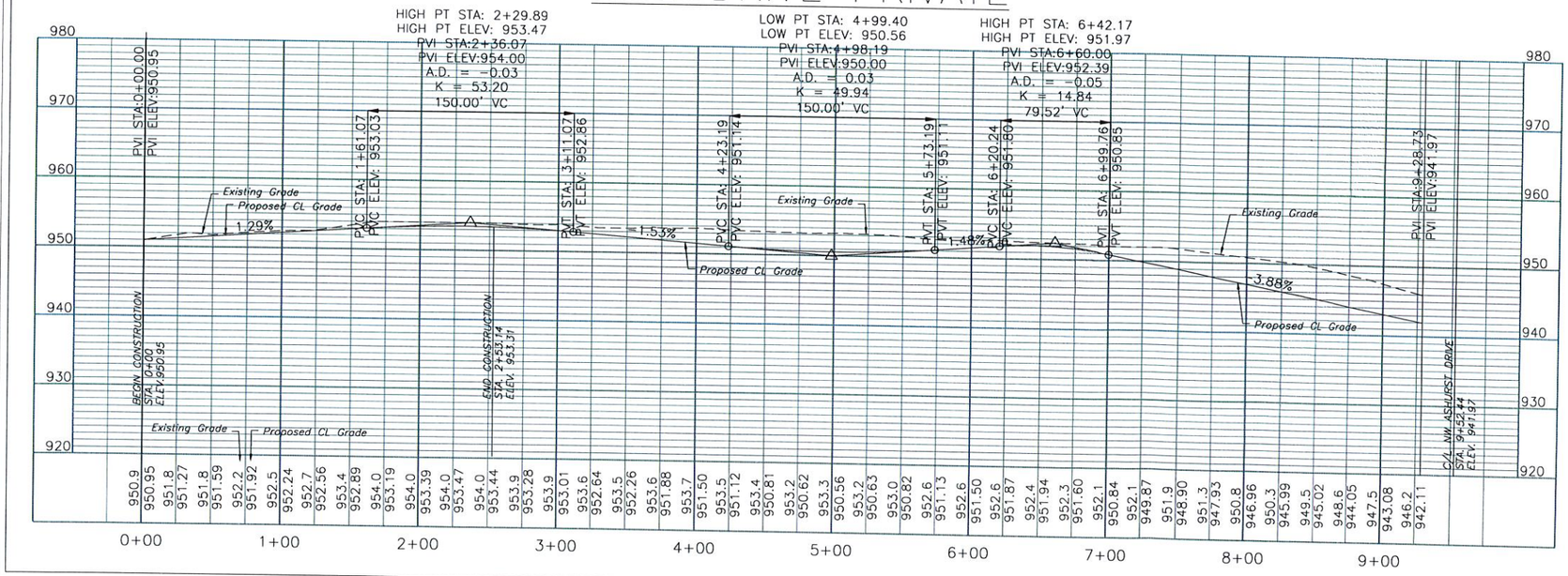


Option #1
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

Option #2
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

TYPICAL SECTION
(RESIDENTIAL STREET)
N.T.S.

N-S DRIVE PRIVATE



STREET PLAN & PROFILE

SCALE: 1" = 50'

North

0 25' 50' 100'

NOTE:

1. ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE UNIFIED DEVELOPMENT ORDINANCE ARTICLE 12 IN TERMS OF PAVING THICKNESS AND BASE.

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The Summit Church
3381 No thwest Chipman Road
Lee's Summit, Jackson County, Missouri

Project: THE SUMMIT CHURCH, LSMO
Issue Date: October 16, 2015

STREET PLAN & PROFILE
The Summit Church:
Lee's Summit, Jackson County, Missouri

Matthew J. Schlic
MO PE 2006019
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OK PE 25226
NE PE E-14335

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