OWNER/DEVELOPER
CROSSPOINT CHURCH OF CHRIST, INC.
CONTACT: JOHNNY JINKS
P.O. BOX 532203
GRAND PRAIRIE, TX 75053
(972) 264-2374
JINKSEL@SBCGLOBAL.NET

ENGINEER
WIER & ASSOCIATES
CONTACT: BRENDON WHEELER, P.E.
3201 E. LAMAR BLVD., SUITE 200F
ARLINGTON, TX 76006
(817) 467-7700
(817) 467-7713
BRENDONW@WIERASSOCIATES.COM

1. ALL REFERENCES TO "CITY" SHALL MEAN "CITY OF GRAND PRAIRIE".
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY AND NORTH TEXAS COUNCIL OF GOVERNMENT STANDARD SPECIFICATIONS.
3. THE CITY STANDARD DETAIL SHEETS INCORPORATED HEREIN BY REFERENCE.

*THE STANDARD SHEETS, SPECIFICALLY IDENTIFIED IN THIS INDEX OF SHEETS, HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Grand Prairie TEXAS

CROSSPOINT CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX. 75052

RECOMMENDED FOR RELEASE: _____ DATE: _____
CITY ENGINEER

RECOMMENDED FOR RELEASE: _____ DATE: _____
DIRECTOR OF PUBLIC WORKS

RECOMMENDED FOR RELEASE: _____ DATE: _____
TRANSPORTATION

RECOMMENDED FOR RELEASE: _____ DATE: _____
RIGHT-OF-WAY AGENT

RECOMMENDED FOR RELEASE: _____ DATE: _____
DRAINAGE ENGINEER/FLOODPLAIN ADMINISTRATOR

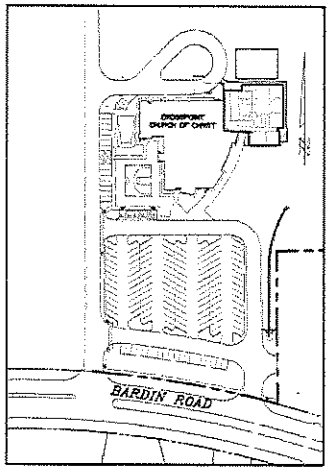
RECOMMENDED FOR RELEASE: _____ DATE: _____
DEVELOPMENT COORDINATOR

THE DEVELOPER AGREES THAT ALL DEDICATIONS & INFRASTRUCTURE COSTS ALLOCATED & PAID BY THE DEVELOPER FOR THIS PROJECT IS PROPORTIONATE TO THE PROPOSED DEVELOPMENT COSTS

DEVELOPER _____ TITLE _____ DATE _____

NOTES:
1. RELEASE OF THESE PLANS FOR CONSTRUCTION SHALL EXPIRE 36 MONTHS AFTER THE ORIGINAL DATE OF RELEASE. (UDC ART. XI.12.17.4)

2. THE RELEASE OF THESE PLANS FOR CONSTRUCTION IS BASED ON GENERAL COMPLIANCE AND DOES NOT APPROVE OR WARRANT THE DESIGN AND DOES NOT RELIEVE THE OWNER/DEVELOPER FROM ANY ITEMS DISCOVERED DURING CONSTRUCTION WHICH ARE DEEMED NECESSARY TO COMPLY WITH FEDERAL, STATE OR CITY ORDINANCES AND STANDARDS.



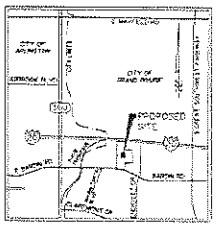
Site Map
SCALE: 1"=100'

STATE OF TEXAS
BRENDON W. WHEELER
120588
LICENSED
PROFESSIONAL ENGINEER

9/29/15
DATE SIGNED
12.0366
REG. NO.

ENGINEERS SIGNATURE AND DATE

PREPARED BY
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
3201 E. LAMAR BLVD., SUITE 200F ARLINGTON, TEXAS 76006 (817)467-7700
Texas Firm Registration No. F-2791 www.WierAssociates.com
Texas Board of Professional Land Surveying Registration No. 10028800



VICINITY MAP
N.T.S.

Vicinity Map
N.T.S.

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	FINAL PLAT (2 SHEETS)
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*2	CITY OF GRAND PRAIRIE TESTING REQUIREMENTS GENERAL NOTES
3	GENERAL NOTES
4	SITE PLAN AND PAVING & DIMENSIONAL CONTROL PLAN
5	PRIVATE ON-SITE PAVING DETAILS
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PROPERTY OWNER/DEVELOPER:
CROSSPOINT CHURCH OF CHRIST, INC.
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX 75052
CONTACT: JOHNNY JINKS
PH: (972) 264-2374

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SEP 29 2015
PLANNING DEPARTMENT

CROSSPOINT CHURCH OF CHRIST – TO SERVE LOT 1, BLOCK 1 – CROSSPOINT CHURCH OF CHRIST ADDITION CITY FILE No. S101103A

PRINTED: 9/28/2015 STD FILE: WIER-PAVING.STB LAST SAVED: 9/28/2015 5:03 PM SAVED BY: BRENDONW FILE: 00 COVER-0003_01.DWG

CITY OF GRAND PRAIRIE
FY2015 GENERAL NOTES
FOR PRIVATE DEVELOPMENT
(Revision October 2014)

1. All work shall be done in accordance with the current City of Grand Prairie standards and specifications and the North Central Texas Council of Governments (N.C.T.C.O.G.) "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" along with all of the latest amendments. Copies may be obtained from the "NORTH CENTRAL COUNCIL OF GOVERNMENTS", PO Drawer 5888, Arlington, Texas, 76005-5888, Phone (817) 640-3300, also available at www.publicworks.dfwinfo.com A copy of the contract documents, plans and specifications shall be available on-site at all times by the Contractor.

2. All communication between the City and the Contractor shall be through the City Inspector and Engineer of Record only. It is the responsibility of the contractor to contact the appropriate department for inspections of work not falling under the Public Works Construction Permit.

3. The location and depth of all utilities shown on the plans are approximate and there may be other unknown existing utilities not shown on the plans. All existing utilities shall be field verified and protected by the Contractor prior to the start of construction. Also see General Note No. 4(D). The contractor shall contact the following utility companies 72 hours prior to doing any work in the area:
(a) Atmos Gas Line Location PH (817) 303-2914
(b) ONCOR Electric Delivery PH (972) 923-4245
(c) AT&T Telephone Co. Line Location PH (972) 660-0422
(d) Time Warner Cable Company Line Location PH (214) 320-7396
(e) City Utility Mains Line Location PH (972) 237-8415
(f) City Utility Mains City Inspector PH (972) 237-8141
(g) City Transportation Services PH (972) 237-8139
(h) City Fire Administration PH (972) 237-8302
(i) Verizon PH (800) 624-9675
(j) U.S. Sprint PH (800) 521-0579
(k) AT&T PH (800) 252-1133
(l) Trinity River Authority PH (972) 262-5186
(m) Texas Department of Transportation (Dallas Area) PH (972) 231-6043
Texas Department of Transportation (Tarrant Area) PH (817) 370-6500
(n) City Fiber Optics and Traffic Signals-City Streets Division PH (972) 237-8525
(o) Dig TESS PH (800) 344-8377

4. It shall be the responsibility of the Contractor to perform the following:
(a) Prevent any property damage to property owner's poles, fences, shrubs, mailboxes, etc.
(b) Locate, verify working condition and protect all existing sprinkler systems lines and heads (if any) within areas disturbed by construction activities. Remove, adjust and reinstall in good condition equal to or better than existing condition, replace, if in direct conflict, with the same or better quality material and appurtenances, all at the Contractor's own expense.
(c) Provide access to all drives during construction.
(d) Protect all underground and overhead utilities and repair any damages. Also see General Note No. 3.
(e) Notify all Utility Companies and verify locations of all utilities prior to the start of construction.
(f) Provide construction staking of public improvements constructed within any City easement or right-of-way. Staking shall be performed by a surveyor licensed in the State of Texas.
(g) Cooperate with the Utility Companies where utilities are required or specified to be relocated.
(h) Work in close proximity to and protect existing Utility Mains, traffic lights and poles.
(i) Any item not specifically called out to be removed shall be brought to the attention of the Engineer of Record prior to removing that item or it shall be replaced at the Contractor's own expense.
(j) Any tree, shrub, or grassed areas damaged by the Contractor's work shall be replaced at the Contractor's expense to existing or better condition.

5. In the preparation of the plans and specifications, the Engineer of Record has endeavored to indicate the location of existing underground utilities. It is not guaranteed that all lines or structures have been shown on the plans. The contractor shall request for line locates as directed in item #3. The Engineer of Record shall be notified about any conflicts to provide written direction and revised plans as required.

6. Verification of the condition of existing City utilities prior to connections shall be the responsibility of the contractor. The contractor shall request for line locates as directed in item #3.

7. The location for the disposal of construction materials shall be approved by the City of Grand Prairie Engineering Division prior to the start of construction.

8. All phases of construction must be coordinated with the Engineer of Record. Also, the Contractor is required to coordinate with the adjacent property owners and the City in order to minimize conflicts in traffic flow or other operations.

9. Field adjustments may be necessary and shall be carried out as directed in written form, and revised plans as needed, by the Engineer of Record. The adjustments shall be coordinated with the contractor and the City Engineering Inspector.

10. The Contractor shall verify, locate, and protect existing water, wastewater, fiber optic cable/pathways (City and franchise utility), traffic signals and appurtenances, storm drainage, gas, electric and telephone mains and services and restore service in case of any damage.

11. The Contractor shall contact the City of Grand Prairie Transportation Services Department prior to any sign or street markings removal. Please See General Note No. 4. Sign removal and reinstallation/relocation shall be in good condition equal to or better than existing condition, and conform to the Engineer of Record's specifications.

12. All fences, signs, survey monuments, and property corner monuments removed or damaged during construction shall be replaced with new material in conformance with the City Engineer's specifications. Costs for replacement of City GPS monuments damaged or removed during construction shall be at the contractors' expense.

13. The Contractor shall relocate existing mailboxes in conflict with the proposed improvements and as specified on the plans, in good condition equal to or better than existing condition, complete in place. The mailboxes shall be accessible at all times for mail delivery.

14. The Contractor shall be responsible for taking all precautions to protect existing trees outside the scope of this Project or those trees not designated in the plans to be removed.

15. The Contractor shall be responsible for repairing any damage caused by the Contractor outside of the designated work area with new quality material at the Contractor's expense.

16. The Contractor shall locate, verify working condition and protect all existing sprinkler systems lines and heads (if any), and shall remove, adjust and reinstall these facilities in good condition equal to or better than existing condition, replace, if in direct conflict, with the same or better quality material and appurtenances.

17. The Contractor shall submit batch designs for concrete and grout for review by the City prior to any placement for any publicly dedicated infrastructure.

18. All existing grades shown on the plans are approximate and are based on the best information available. Grades shall be verified and any discrepancy brought to the attention of the Engineer of Record for evaluation and adjustments as needed.

19. All backfill for ditch lines are to be mechanically tamped to 95% STD Proctor density (ASTM D698), at a moisture content near optimum (-2% to +2%, or as specified by the Engineer of Record). Backfill and materials testing shall be performed by the City selected materials testing firm. Costs of services shall be paid by the developer prior to start of construction.

20. Contractor to fill all voids under existing pavement when installing new line. Also all ditch lines must be filled at the end of each day's work.

21. All pipes shall be kept free of trash and dirt at all time. At the end of each day, the pipe shall e temporarily sealed/connected. All pipe installation shall be performed as recommended per the pipe manufacturer. The contractor shall inspect the site daily and keep the site free of trash and construction debris.

22. The Contractor shall keep the existing fire hydrants in service at all times.

23. The Contractor shall maintain the existing water mains in service during all phases of construction. Leaks caused by the Contractor shall be repaired immediately at the Contractor's expense. Leaks along the existing water main close to the working area, caused by vibration, etc. (during working hours) shall be repaired by the Contractor with the City only providing the required parts. The City will repair all leaks if the Contractor is not on the job-site (primarily after working hours), if the leak is directly caused by the Contractor and not repaired, all charges incurred shall be billed to the Contractor.

24. All cutting and plugging of the existing water main, where specified on the plans, shall include all labor, fittings and appurtenances required to perform this work.

25. The contractor shall contact the assigned inspector for the operation of all water valves & scheduling of services by Water/Wastewater.

26. The contractor shall maintain the existing water mains and services in operation when installing new water mains. This shall include any temporary connections, if required.

27. The contractor must notify each property owner a minimum of 24 hours prior to shutting off water for connection to new main. The contractor shall notify the City Engineering Inspector a minimum of 72 hours in advance for all water or wastewater locates or shut offs of water. The length of time for water shut-downs shall be limited to as needed to perform the required work.

28. The contractor shall maintain the existing wastewater mains and services in operation when installing new wastewater mains. This shall include any temporary connections, if required.

29. The Engineer of Record shall specify the use of pre-cast or cast-in-place wastewater manholes on the plans. It shall be the contractor's responsibility to verify the condition of existing wastewater manholes at tie in locations. Alternative construction for wastewater manholes shall be evaluated on a case-by-case basis by Public Works and Engineering Department.

30. The maximum deflection of pipe joints shall not exceed that recommended by the pipe manufacture. If it is necessary to deflect the pipe (greater that the recommended amount) the Contractor shall provide fittings as needed.

31. Prior to the start of construction, the City Engineering Inspector, City Water/Wastewater representative and the contractor shall make a dry run to the system to insure, to the extent possible, that the utility can be found and secured. Any issues shall be brought to the attention of the Engineer of Record to provide written direction and provide revised plans as needed. SCADA systems required for the project shall be installed at the owner/contractors expense and shall comply with the requirements of the City of Grand Prairie Utility Services Division.

32. Traffic Control Plans shall be submitted to the City of Grand Prairie Transportation Services Department. The Traffic Control Plan and barricades shall maintain traffic flow and shall be in accordance with the latest edition of the TMUTCD and prepared by a Work Zone Certified Technician. Traffic Control Plans shall be submitted a minimum of two weeks in advance of work commencing. Lane closures shall only be allowed between the hours of 9:30am to 3:30pm unless approved by Transportation Services. Temporary Street closure requests shall be submitted in writing. If approved, notifications to Police, Fire, Mail, Garbage and Schools shall be made by Transportation Services. There are no guarantees that street closings will be approved by the City.

33. All pavement markings, including raised pavement markers, lane striping, transverse markings, signs and other traffic control devices, disturbed during construction shall be maintained, repaired or replaced at the contractor's expense.

34. The contractor shall maintain the flow of traffic at all times and provide access to all drives. Requests for overnight/temporary plating of open cuts in the City right-of-way shall be made in writing forty-eight (48) hours prior to the removal of the paved surface and shall be evaluated on a case-by-case basis and approved by the Director of Transportation or his representative.

35. All detention basins shall be sodded with grass, landscaped, and irrigated in accordance with City standards.

36. Seed/sod shall be furnished to establish ground cover over all disturbed areas as an erosion control measure. The Contractor shall not wait until the completion of the entire project before doing this work. The project shall not be considered for acceptance by the City unless the establishment of 80% ground cover is ensured.

37. Sheating, shoring, and bracing: The contractor will abide by all applicable federal, state, and local laws governing excavation. Trench's side slopes shall meet Occupational Safety and Health Administration (OSHA) standards that are in effect at the time of construction. Sheating shoring and bracing shall be required if side slope standards are not met. A pull box, meeting OSHA standards, will be acceptable. The Contractor shal submit site specific, detailed plans and specifications for trench safety systems that meet OSHA standards that are in effect at the time of development of project when trench excavation will exceed a depth of five (5) feet. These plans will be sealed by an Engineer registered by the State of Texas and submitted to The City of Grand Prairie prior to obtaining release of the public works construction permit.

38. The Developer/Owner and Contractor are required by the Clean Water Act, EPA regulations, the TPDES, and NPDES General Permit to develop a site specific Storm Water Pollution Protection Plan (SWPPP) for the project which includes all disturbed areas by the construction including borrow, staging and storage areas and to secure a permit from TCEQ. The SWPPP with required inspection reports must be kept up to date and kept on the construction site at all times. The Developer/Owner and Contractor must prepare a Notice of Intent (NOI) and secure a permit form TCEQ for large construction sites of 5 or more acres of disturbed area with a copy of the NOI and the required Construction Site Notice posted at the construction entrance in clear view of the public during the construction. For large construction sites, after the site is 70% or greater stabilized so that there is no further danger of erosion and sedimentation pollution from the site disturbed areas, the Developer/Owner and Contractor must prepare and submit a Notice of Termination (NOT) to TCEQ. A copy of the NOI and NOT must be submitted to the City Engineer for each permitted project. See the State regulations General Permit to Discharge Waste under the Texas Pollution Discharge Elimination System (TPDES) No. TX 150000.

39. All erosion control devices shown on the plans released for construction shall be installed in accordance with the plan sequencing prior to commencing any earth disturbing activities. Failure to install the erosion control devices before starting the earth disturbing activities may result in sanctions including, but not limited to, withholding of release of construction permits, inspections, payment of City funded portions of the project, suspension of construction activities, or citations. Erosion control devices shall be installed and maintained in compliance with the project plans, City storm water ordinance and/or SWPPP and General Permit.

40. The contractor shall conform activities to the SWPPP as specified, including installing, maintaining, and removing temporary pollution controls, conducting and documenting inspections of pollution controls, sprinkling for dust control, maintaining spill response equipment on-site, and other "good housekeeping" practices. Minimum pollution controls include silt fences for erosion control mats), stabilized construction entrance, establishing grass, sprinkling for dust control. Hay products are not acceptable as BMP's. Other methods of pollution control may be acceptable by the City. The Contractor shall also be responsible for submitting a Notice of Intent (NOI) and Notice of Termination (NOT) for the project.

41. It shall be unlawful for any person to lay, construct, build, grade, gravel, pave, surface, excavate, resurface, or do any work in or upon any public street, alley, easement, thoroughfare or public place within the City, without first having obtained a permit to do such work from the Director of Public Works, and without having paid a permit fee to the City, and having made and executed a bond to the City in the sum of one-hundred (100) percent of the total contract price as directed in Article 12 of the Unified Development Code. All Sub-sections of the permit shall be complete and submitted to the City for release of the permit. The permit shall be for the specific work contemplated. The permittee shall notify the City Engineer of the construction startup date and an expected completion date.

42. These General Notes shall be included within the design documents and shall be sealed and signed by the Engineer of Record, therefore, certifying that these notes have not be altered as received from the City of Grand Prairie.

RECEIVED
SEP 29 2015
PLANNING DEPARTMENT

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ENGINEERS SURVEYORS LAND PLANNERS
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Texas Firm Registration No. F-2179, Texas Surveying Firm No. 10194000
Land Surveyor Registration No. 100
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STATE OF TEXAS
BRANDON M. WHEELER
120209
LICENSED
PROFESSIONAL ENGINEER

9/22/15
DATE ISSUED:
120376
PROJ. NO.

CROSSPOINT
CHURCH OF CHRIST
EDUCATIONAL BUILDING
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:
CITY OF GRAND PRAIRIE GENERAL NOTES

REVISIONS:

NO:	DATE:	BY:
1	9/24/15	DFC COMMENTS

PROJECT NO: 14142.001.00
DRAWN BY:

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THIS INFORMATION IS AN EXPLANATION OF BASIC TESTING PROCEDURES AND IS MEANT TO BE USED IN CONJUNCTION WITH THE CITY OF GRAND PRAIRIE STANDARD CONSTRUCTION DETAILS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

TESTING OF MATERIALS
THE CITY WILL PERFORM BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PUBLIC AND PRIVATE PROJECTS UNLESS SPECIFIED OTHERWISE. ALL FINAL REPORTS SHALL BE SUBMITTED IN THE INSPECTION AND CONTRACTED WITHIN FIVE WORKING DAYS. FIELD COPIES MUST BE SUBMITTED TO THE INSPECTOR AND CONTRACTOR UPON COMPLETION OF THE TESTING AND PRIOR TO LEAVING THE JOB SITE. FAILED SAMPLES MUST BE REPORTED TO THE CITY INSPECTOR AND CONTRACTOR IMMEDIATELY.
PRIVATE DEVELOPMENT PROJECTS: THE DEVELOPER/OWNER SHALL PROVIDE EDOCION PLANS FOR GEOTECHNICAL AND MATERIAL TESTING AS PER CITY ORDINANCE #7251 FOR BACKFILL, DENSITY AND CONCRETE TESTING PRIOR TO BEGINNING ANY CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY'S TESTING FIRM AND THE CITY'S INSPECTOR AT LEAST 24 HOURS PRIOR TO ANY REQUIRED TESTING.

THE CONTRACTOR SHALL COORDINATE ALL TESTING ACTIVITIES WITH THE CITY AND ITS INSPECTOR AND SHALL FACILITATE REQUIRED TESTING THROUGHOUT THE CONSTRUCTION PERIOD. THE INSPECTOR SHALL BE PRESENT DURING ALL TESTING. ALL PIPE, FITTINGS, AND OTHER CONSTRUCTION MATERIALS SHALL BE INSPECTED FOR DEFECTS AND CONFORMANCE TO CITY OF GRAND PRAIRIE STANDARDS PRIOR TO PLACEMENT.

ALL TESTING RESULTS WILL BE SUBMITTED TO THE CONTRACTOR AND INSPECTOR WITHIN FIVE WORKING DAYS OF TESTING.

THE CITY SHALL MAKE FINAL DECISION AS TO THE VALIDITY OF ALL TESTING RESULTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT MATERIALS TO BE TESTED ARE IN COMPLIANCE WITH ALL PLANS AND SPECIFICATIONS PRIOR TO TESTING. ALL MATERIALS FOUND NOT TO BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS BEFORE AND AFTER TESTING SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL COSTS ASSOCIATED WITH THE RETESTING OF WORK THAT FAILS TO MEET THE SPECIFICATIONS REQUIRED IN THE CONTRACT DOCUMENTS SHALL BE BORNE BY THE CONTRACTOR THROUGH THE DEVELOPER/CITY. FOR CITY PROJECTS RETESTING COST WILL BE WITHHELD FROM PAY REQUESTS SUBMITTED BY THE CONTRACTOR. THIS COST WILL BE BASED ON THE CITY'S COST WITH NO ADDITIONAL MARK-UP. A LETTER OF ACCEPTANCE WILL NOT BE ISSUED UNTIL ALL TESTING DEFICIENCIES ARE ADDRESSED AND ALL RELATED COST PAID.

MATERIALS TESTING PROVIDER:
INSPECTION AND TESTING FIRM MUST BE NOTIFIED 24 HOURS PRIOR TO ANY REQUIRED TESTING. FAILURE TO NOTIFY INSPECTOR AND TESTING FIRM MAY RESULT IN REJECTION OF THE WORK AND THE REMOVAL AND REPLACEMENT OF THE MATERIAL. INSPECTOR SHALL BE PRESENT DURING ALL TESTING. ALL PIPE, FITTINGS, AND OTHER CONSTRUCTION MATERIALS SHALL BE INSPECTED FOR DEFECTS AND CONFORMANCE TO CITY OF GRAND PRAIRIE STANDARDS PRIOR TO PLACEMENT.

SECTION 1: SANITARY SEWER MAINS

-BACKFILL AND DENSITY TESTING
ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 6 (ON THIS SHEET) MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS IN ACCORDANCE WITH NCTCOG ITEM 504.3.3.2.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS.

DENSITIES SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.3.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES. DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 6. NO "PONDING" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON ALL SEWER SERVICES BOTH SIDES OF THE STREET WITHIN THE RIGHT-OF-WAY AND SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.3.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO ALL STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT.

-SEWER LINE INSPECTION AND TESTING
ALL SEWER LINES SHALL BE TESTED WITH A MANDREL FOR % DEFLECTION (MAX.) IN ACCORDANCE WITH NCTCOG SPECIFICATION, ITEM 501.3.1.4.1. INSPECTOR OR OTHER CITY REPRESENTATIVE MUST BE PRESENT. ALL SEWER LINES SHALL BE TESTED BY A LOW PRESSURE AIR TEST ACCORDING TO THE NCTCOG SPECIFICATIONS, ITEM 501.3.1.3. INSPECTOR OR OTHER CITY REPRESENTATIVE MUST BE PRESENT. ALL SEWER LINES SHALL BE TELEVISED AFTER ONE YEAR (WITH END OF WARRANTY). A COPY OF THE TELEVISED STANDARD REPORT SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY PAVING ACTIVITIES. NO FAILURES MAY BE IDENTIFIED AND REPAIRED ACCORDINGLY (NCTCOG ITEM 501.3.3). ALL SERVICES SHALL BE "PINPOINTED", AIR TEST, AND TELEVISION INSPECTION SHALL NOT BE PERFORMED UNTIL ALL UTILITIES ARE COMPLETE IN PLACE AND BACKFILLED.

-MANHOLE CONSTRUCTION
A CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF GRAND PRAIRIE STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. SULFATE RESISTANT CONCRETE SHALL BE USED FOR ALL MANHOLES.

INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION.

ONE SET OF FOUR CYLINDERS (2-7 DAY, 2-28 DAY) FOR CAST-IN-PLACE MANHOLES SHALL BE MADE FOR EVERY DAY CONCRETE IS PLACED (ASTM C-31). AIR, SLUMP, AND TEMPERATURE TESTS SHALL BE TAKEN FOR EVERY SET OF CYLINDERS MADE. CONCRETE WITH A TEMPERATURE ABOVE 90° F WILL BE REJECTED AT THE INSPECTOR OR ENGINEER'S DISCRETION. EXTERIOR FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 24 HOURS UNLESS APPROVED BY INSPECTOR OR ENGINEER.

NO BACKFILLING AROUND MANHOLES SHALL BE PERMITTED UNTIL AT LEAST 72 HOURS AFTER FORM REMOVAL.

ALL BACKFILL AROUND MANHOLES AND OTHER STRUCTURES SHALL BE MANUALLY PERFORMED AND SOIL DENSITIES SHALL BE TAKEN AT EVERY LIFT (6-12") IN SPIRAL FASHION.

NO NATIVE/NATURAL STONE, RIVER ROCK/PEA GRAVEL SHALL BE ALLOWED.

SECTION 2: WATER MAINS
-BACKFILL AND DENSITY TESTING
ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 6 (ON THIS SHEET) AND MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS (NCTCOG ITEM 504.3.3.2.1). DENSITIES SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.2.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES. DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 6. NO "PONDING" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON ALL LONG SERVICES UNDER PAVEMENT AND SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.3.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO HYDRANTS, WATER VALVES, AND OTHER WATER RELATED STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT.
-WATER MAIN TESTING
WATER MAINS SHALL BE PRESSURE TESTED ACCORDING TO THE NCTCOG SPEC. ITEM 506.5. WATER MAINS TO BE TESTED AT 150 PSI FOR 4 HOURS. WATER SAMPLES SHALL BE TAKEN BY CITY PERSONNEL. SAMPLE POINTS SHALL BE NOTE SIDE ON FAUCETS BROUGHT UP TO FINISHED GRADE. SAMPLE LOCATIONS SHALL BE DETERMINED BY INSPECTOR. SAMPLES MAY ONLY BE TAKEN MONDAY THROUGH THURSDAY FROM 8 AM TO 12 PM. INSPECTION BY WATER SERVICES AND MAIN LINE VALVES WILL BE DONE AT THEIR WALK THROUGH TO INSURE SERVICES ARE NOT AND VALVES ARE OPERATIONAL AND FULLY OPEN. THIS WILL BE DONE BY OPERATING EACH SERVICE BREAKS TO VERIFY WATER FLOW AND OPERATING EACH VALVE TO A CLOSED POSITION AND BACK TO THE FULL OPEN POSITION. INSPECTION OF FIRE HYDRANTS WILL ALSO BE DONE AT FINAL WALK-THROUGH. THE HYDRANT WILL BE OPERATED WITH ALL CAPS CLOSED TO DEMONSTRATE NO PLANKS SEAL LEAKAGE. THEN THE HYDRANT WILL BE OPERATED WITH ONE CAP REMOVED TO DEMONSTRATE EASE OF OPERATION, WATER FLOW, AND WEEP-HOLE PERFORMANCE.

NO NATIVE/NATURAL STONE, RIVER ROCK/PEA GRAVEL SHALL BE ALLOWED.

SECTION 3: STORM SEWER DRAINS

-BACKFILL AND DENSITY TESTING
ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 6 (ON THIS SHEET) AND MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS (NCTCOG ITEM 504.3.3.2.1). UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. DENSITIES SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.3.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES. DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 6. NO "PONDING" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON EVERY LATERAL UNDER PAVEMENT AND SHALL CONFORM TO SECTION 6 AND NCTCOG ITEM 504.3.3.3.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO INLETS, HEADWALLS, JUNCTION BOXES, AND OTHER STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT.

-CONNECTIONS
COLLARS, JUNCTIONS, WYES, AND GRADE REPAIRS WILL BE INSPECTED PRIOR TO CONCRETE PLACEMENT AND AGAIN PRIOR TO FINAL EMBEDMENT AND BACKFILL.

STRUCTURE CONSTRUCTION

A CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY INSPECTOR PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF GRAND PRAIRIE STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION. ONE SET OF FOUR CYLINDERS (2-7 DAY, 2-28 DAY) SHALL BE MADE FOR EVERY DAY CONCRETE IS PLACED (ASTM C-31). AIR, SLUMP, AND TEMPERATURE TESTS SHALL BE TAKEN FOR EVERY SET OF CYLINDERS MADE. CONCRETE WITH A TEMPERATURE ABOVE 90° F WILL BE REJECTED. ADDITIONAL CYLINDERS AND OR TESTS MAY BE REQUESTED AT THE INSPECTOR OR ENGINEER'S DISCRETION. EXTERIOR FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 24 HOURS UNLESS APPROVED BY INSPECTOR OR ENGINEER.

NO BACKFILLING AROUND STRUCTURES SHALL BE PERMITTED UNTIL AT LEAST 72 HOURS AFTER FORM REMOVAL.

ALL STORM SEWER LINES SHALL BE TELEVISED AND PLACE ON DVD (DIGITAL VIDEO DISK). A COPY OF THE DVD AND STANDARD REPORTS SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY PAVING ACTIVITIES SO FAILURES MAY BE IDENTIFIED AND REPAIRED ACCORDINGLY (NCTCOG ITEM 501.3.3).

NO NATIVE/NATURAL STONE, RIVER ROCK/PEA GRAVEL SHALL BE ALLOWED.

SECTION 4: STABILIZATION OF SUB-GRADE

-SOIL CLASSIFICATION AND SAMPLING
SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOILS ON SITE. TESTING FOR SULFATE PRESENCE AND LIME SOILS TESTS SHALL BE CONDUCTED FOR ALL SAMPLES PRIOR TO ANY STABILIZATION. STABILIZED RECOMMENDATION SHALL BE MADE BY GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION AND THICKNESS PAVEMENT SECTION TO BE APPROVED BY THE CITY IF SULFATE CONTENT IS GREATER THAN 2,000 PPM (PARTS PER MILLION) - WHERE LIME IS RECOMMENDED, LIME CONTENT SHALL BE 5% MINIMUM. FOR SOILS WITH A P.I. OF LESS THAN 10, A MINIMUM OF 3% PORTLAND CEMENT SHALL BE USED. ADDITIONAL STATISTICAL TESTING AND RECOMMENDATIONS MAY BE REQUIRED BY CITY AS FIELD CONDITIONS DICTATE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES.
LIME STABILIZED SUB-GRADE SHALL HAVE AN INITIAL CURE TIME OF NOT LESS THAN 72 HOURS PRIOR TO REMOVING ACCORDING TO NCTCOG SPEC. ITEM 301.2.3.3.1

-SUB-GRADE TESTING
CONDITIONS FOR LIME TREATED SUB-GRADE SHALL BE TAKEN AT INTERVALS NOT EXCEEDING 300 FEET ALONG ROAD AND MUST PASS 100% THROUGH A 1 3/4" SIEVE AND 80% THROUGH A #4 SIEVE ACCORDING TO NCTCOG SPEC ITEM 301.2.3.3.1.
CONDITIONS FOR PORTLAND CEMENT TREATED SUB-GRADE SHALL BE TAKEN PRIOR TO PLACEMENT OF CEMENT AND AT INTERVALS NOT EXCEEDING 100 FEET ALONG ROAD AND MUST PASS 100% THROUGH A 1"SIEVE AND 80% THROUGH A #4 SIEVE ACCORDING TO NCTCOG SPEC ITEM 301.2.3.3.
LIME SUB-GRADE SHALL BE TESTED IN ACCORDANCE WITH NCTCOG SPEC ITEM 301.2.3.3. TESTS WILL BE PERFORMED BY EXCAVATING DEPTHS THAN LIME OPERATIONS AND PERMITTING A PHENOLPHTHALEIN INDICATOR.
DENSITIES SHALL BE TAKEN ON SUB-GRADE IN ACCORDANCE WITH SECTION 6 WEEMANDER, TAMPING AND IN ACCORDANCE WITH NCTCOG ITEM 301.2.3.3 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS.
ALL SUB-GRADE SHALL BE VISUALLY "PROOF ROLLED" AFTER IT IS TREATED AND PRIOR TO PLACEMENT OF STEEL.
DENSITIES SHALL BE TAKEN WITHIN 72 HOURS OF CONCRETE PLACEMENT (NCTCOG ITEM 301.6.1) IF MORE THAN 72 HOURS ELAPSE, DENSITIES MUST BE REMADE UNLESS AN APPROVED EMULSION SEALANT IS USED (NCTCOG ITEM 303.3.3).
LOCATIONS FOR DENSITY, GRADATIONS, AND DEPTH CHECKS SHALL BE AT THE DISCRETION OF THE INSPECTOR AND SHALL BE REPRESENTATIVE OF THE ENTIRE CROSS SECTION OF THE SUB-GRADE.
SUB-GRADE FAILURES SHALL BE DEFINED BY INSPECTOR OR ENGINEER. REMAN METHOD WILL BE DISCUSSED WITH INSPECTOR OR ENGINEER AND APPROVED PRIOR TO BEGINNING REMAN WORK.
AT ALL TESTING LOCATION BETWEEN, MULTIPLE TESTS MAY BE REQUIRED ACROSS WIDTH OF RIGHT-OF-WAY.

FOR EXCLUSION PLACEMENT OVER SUB-GRADE PLEASE REFER TO NCTCOG ITEM 302.7.3.7

SECTION 5: CONCRETE PAVEMENT (NCTCOG SECTION-303)

-MATERIALS AND BATCH DESIGN SUBMITTED FOR APPROVAL:
THE CONTRACTOR SHALL FURNISH FOR THE APPROVAL OF THE ENGINEER, PRIOR TO COMMENCING WORK, CONCRETE BATCH DESIGN MIXES TO BE USED IN ALL STRUCTURAL CONCRETE, SHOWING BY WEIGHT AND PROPORTION EACH OF CEMENT, FINEAL, AGGREGATE, FINE AGGREGATE, AND COARSE AGGREGATE AND WATER TO OBTAIN A CONCRETE OF UNIFORM CONSISTENCY, DENSITY AND WORKABILITY. TESTING INFORMATION SHALL BE PROVIDED TO CONFIRM THE MIX DESIGN IS CAPABLE OF PRODUCING CONCRETE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. NO WATER/NATURAL STONE, RIVER ROCK/PEA GRAVEL SHALL BE ALLOWED.

-CONCRETE TESTING
A CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF GRAND PRAIRIE STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION. A MINIMUM OF FOUR TEST CYLINDERS SHALL BE OBTAINED PER ONE HUNDRED CUBIC YARD OF CONCRETE PRODUCTION. TESTS SHALL ALSO INCLUDE SLUMP, AIR CONTENT AND TEMPERATURE OF CONCRETE MIXTURE. EACH DAY ONE SET OF FOUR CYLINDERS SHALL BE MADE. EACH DAY SHALL ALSO BE TESTED. CONCRETE STRENGTH SHALL BE TESTED AT 7 DAYS (2 CYLINDERS) AND 28 DAYS (2 CYLINDERS). ADDITIONAL CYLINDERS AND OR TESTS MAY BE REQUESTED AT THE INSPECTOR OR ENGINEER'S DISCRETION.
-HOT WEATHER CONCRETE PLACEMENT
CONCRETE WITH A TEMPERATURE OF 90° OR HIGHER WILL REQUIRE A RETARDING AGENT ADMIXTURE.

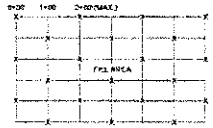
THE MAXIMUM TEMPERATURE OF CONCRETE AT THE TIME OF PLACEMENT SHALL NOT EXCEED 95°. IT SHALL BE THE CONTRACTOR AND/OR HIS SUPPLIER'S RESPONSIBILITY TO TAKE STEPS TO CONTROL THE TEMPERATURE OF CONCRETE. ALL CONCRETE THAT EXCEEDS THE TEMPERATURE LIMIT OF 95° WILL BE REJECTED.

-CURE TIME, COMPL. & FORM REMOVAL
FORMS SHALL NOT BE REMOVED FROM PAVEMENT, SIDEWALKS, CURBS, OR HEADWALLS WITHIN FOUR 24 HOURS MINIMUM, AND SHALL NOT BE BACKFILLED LESS THAN 12 HOURS AFTER REMOVAL. CONCRETE MUST HAVE A MINIMUM STRENGTH OF 3,000 PSI.
PAVEMENT MAY BE OPENED TO TRAFFIC EARLIER AT THE DISCRETION OF THE INSPECTOR OR ENGINEER ONLY AFTER REVIEW OF COMPRESSIVE STRENGTH DATA. TEMPORARY PEDESTRIAN CROSSINGS MAY BE MADE AFTER 72 HOURS BY PLACING SOIL OVER THE NEW PAVEMENT AT A DEPTH OF NOT LESS THAN 18" AND A WIDTH OF NOT LESS THAN 10'. PRIOR TO CARGO WEIGHT ANY CONCRETE CONTRACTOR SHALL DEMONSTRATE METHOD OF SURFACE PREPARATION TO ENSURE ADHESION OF GROUT.

ALL STREET PAVEMENT SHALL BE CORED TO VERIFY PROPER PAVEMENT THICKNESS AND STRENGTH PRIOR TO ACCEPTANCE. CORES FOR STRENGTH AND DEPTH SHALL BE 4"DIAMETER AND TAKEN AT INTERVALS NOT EXCEEDING 400 FEET. CORES FOR DEPTH ONLY SHALL BE 3" DIAMETER AND SHALL BE TAKEN AT INTERMEDIATE INTERVALS NOT EXCEEDING 200'. LOCATIONS WILL BE APPROVED BY THE CITY. MULTIPLE CORES MAY BE REQUIRED AT EACH INTERVAL TO REPRESENT ENTIRE CROSS SECTION. ALL CORES SHALL BE TAKEN AT 28 DAYS AND RESULTS SHALL BE CORRELATED WITH THE EXTENDED TEST RESULTS. EVALUATION OF CORES WILL BE IN ACCORDANCE WITH NCTCOG SPEC ITEM 303.8.3. ALL REQUIRED PAVEMENT REPLACEMENT SHALL BE IN FULL PANEL INCREMENTS.

SECTION 6: MECHANICAL TAMPING OF BACKFILL

A. ALL BATCH LINES AND BORE PITS SHALL BE MECHANICALLY TAMPED.
B. BACKFILL OTHER THAN SELECT FILL MAY CONSIST OF EXCESS OFFSITE INORGANIC SOILS AND SHOULD BE PLACED IN LOOSE LIFTS 6"-8" IN THICKNESS (MAX TO EXCEED 12") AND SHOULD BE MECHANICALLY COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY
AS DEFINED BY ASTM D-698 (COMMONLY PROCTOR) PROCEDURES UNDER EXISTING AND PROPOSED PAVEMENT, AND TO 90 PERCENT STANDARD PROCTOR PROCEDURES ELSEWHERE. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE BETWEEN MINUS 2% OF OPTIMUM TO PLUS 4% PERCENTAGE POINTS ABOVE THE PROCTOR OPTIMUM VALUE.
C. ALL BACKFILL MATERIAL TO BE SELECT NATIVE MATERIAL 6" DIAMETER CLODS AND SMALLER
UNLESS SPECIFIED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS AND TO BE MECHANICALLY TAMPED AND DENSITY CONTROLLED AS DESCRIBED IN ITEM NO. B. ABOVE.
D. WATER JETTING IS NOT PERMITTED.
E. DENSITIES SHALL BE TAKEN EVERY ONE LIFT AT STAGGERED LOCATIONS NOT TO EXCEED 200 FEET INCREMENTS. DENSITY FIFTY FEET EVERY OTHER LIFT.
F. DENSITIES MAY BE TAKEN AT TYPICAL LOCATIONS AS SHOWN BELOW; ALSO DENSITIES WILL BE TAKEN AT RANDOM LOCATIONS AND AT THE GEO-TECHNICIAN'S DISCRETION.



—(LEGEND: X DENOTES DENSITIES.)

G. SOLUBLE SULFATE TESTS SHALL BE PERFORMED EVERY THREE HUNDRED LINEAR FEET (300 L.F.) AFTER UTILITY CONSTRUCTION HAS BEEN COMPLETED AND FINAL PAVEMENT SUB-GRADES HAVE BEEN ACHIEVED. SULFATE CONCRETE SHALL BE UTILIZED FOR ALL AREAS WHERE HIGH CONCENTRATIONS OF SOLUBLE SULFATES ARE PRESENT. SULFATE CONTENTS EXCEEDING 3000 PARTS PER MILLION (PPM) ARE CONSIDERED HIGH. SULFATE TESTING METHOD SHALL COMPLY WITH TXDOT'S TEST METHOD TEX-145E.

SECTION 7: BATCH PLANT REQUIREMENTS

THE CONTRACTOR SHALL STRICTLY WITH THE CITY OF GRAND PRAIRIE REQUIREMENTS:

-PERMITS
A PERMIT FOR CONCRETE, ASPHALT OR ANY OTHER TYPE PLANT ESTABLISHED FOR MIXING MATERIALS FOR PAVING OR BUILDING MAY BE GRANTED FOR A TEMPORARY PERIOD OF TIME BY THE DIRECTOR OF PUBLIC WORKS. (ORD. NO. 4135, § 1, 4-7-87)

-APPLICATIONS:
ANY PERSON, FIRM OR CORPORATION WHO DESIRES TO ESTABLISH A TEMPORARY BATCHING PLANT SHALL FILE AN APPLICATION FOR A PERMIT WITH THE CITY ENGINEER ACCORDING WITH THE GENERAL REQUIREMENTS SET FORTH IN ARTICLE 4-102 (CHAPTER OF THE UDC (UNIFIED DEVELOPMENT CODE) AND CHAPTER 7 ART. IV SEC. 7-177 OF THE GRAND PRAIRIE CODE OF ORDINANCES AND SUCH OTHER INFORMATION THE CITY ENGINEER MAY REQUIRE.

-MINIMUM REQUIREMENTS:
AS A GENERAL EACH APPLICATION SHALL CONTAIN THE NAME OF THE APPLICANT, A MAP SHOWING THE PROPOSED LOCATION OF THE PLANT, PROJECTS TO WHICH THE PLANT RELATES, PERIOD OF TIME REQUESTED, AND A PERMIT EXEMPTION GRANTED BY THE TEXAS AIR CONTROL BOARD.

-TIME LIMIT:
TEMPORARY BATCH PLANT PERMITS WILL BE ISSUED FOR A PROJECT BY THE CITY ENGINEER UPON REQUEST OF THE APPLICANT AND THE FILING OF AN APPLICATION AND FEE MEETING THE REQUIREMENTS OF THIS ARTICLE. THE DURATION OF SUCH PERMITS SHALL BE FOR A PERIOD OF SIX MONTHS OR UNTIL THE COMPLETION OF ONE PROJECT, WHICHEVER OCCURS SOONER. IN THE EVENT THAT A PROJECT SHOULD TAKE LONGER THAN SIX MONTHS TO COMPLETE, THE APPLICANT MAY APPLY FOR AND RECEIVE AN EXTENSION ON HIS TEMPORARY BATCH PLANT PERMIT, SUCH EXTENSION TO LAST FOR A PERIOD OF SIX MONTHS OR UNTIL THE COMPLETION OF THE PROJECT, WHICHEVER OCCURS SOONER. AS MANY EXTENSIONS AS ARE NECESSARY MAY BE GRANTED TO THE APPLICANT TO COMPLETE THE PROJECT.

NOTE: BATCH PLANTS SHALL ONLY BE USED TO PROVIDE CONCRETE FOR THE PERMITTED PROJECT. NO OTHER PROJECTS SHALL BE SUPPLIED FROM THIS BATCH PLANT WITHOUT A WRITTEN APPROVAL FROM THE CITY OF GRAND PRAIRIE.

-PUBLIC NOTICE:
EACH PERMIT APPLICATION AND EXTENSION SHALL BE PUBLICLY ADVERTISED IN THE LOCAL NEWSPAPER TO PROVIDE A MINIMUM OF TEN DAYS FOR PUBLIC REVIEW AND COMMENT. THE CITY ENGINEER SHALL CONSIDER ALL PUBLIC COMMENTS PRIOR TO APPROVING OR DENYING THE PERMIT APPLICATION.

-FEE:
THE FEE FOR PROCESSING AN APPLICATION FOR A TEMPORARY BATCH PLANT SHALL BE THREE HUNDRED FIFTY DOLLARS PAYABLE UPON FILING THE APPLICATION. IN THE EVENT THAT AN EXTENSION OF THE TEMPORARY BATCH PLANT PERMIT SHOULD BE GRANTED, THE FEE FOR SUCH EXTENSION SHALL BE ONE HUNDRED DOLLARS. THE FEE FOR EACH ADDITIONAL EXTENSION OF THE TEMPORARY BATCH PLANT PERMIT AFTER THE ORIGINAL EXTENSION OF THE TEMPORARY BATCH PLANT PERMIT SHALL BE ONE HUNDRED DOLLARS. CONTRACTOR SHALL PAY THE FEES AND SUBMIT APPLICATION TO ALLOW FOR ADEQUATE TIME FOR PROCESSING AND ADMINISTRATION PRIOR TO BEGINNING BATCH PLANT OPERATIONS.

-GENERAL:
SOIL TESTING TECHNICIANS SHALL PROVIDE WRITTEN PROOF OF HAVING MINIMUM OF TWO YEARS OF RELATED FIELD EXPERIENCE.

HOT-MIX ASPHALT CONCRETE PAVEMENT
SPECIFICATION SHALL FOLLOW SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION N.C.T.C.O.G. AND CONFORM TO THE TXDOT STANDARDS FOR HOT-MIX ASPHALTIC CONCRETE.

THE ASPHALTIC MIXTURE SHALL BE TESTED FOR OVEN BLOW OFF/CONTAMINATION AND STABILITY.

A MINIMUM DENSITY OF NOT LESS THAN 92% WILL BE REQUIRED AFTER THAT COMPACTION OF THE IN-PLACE PAVEMENT SECTION. THE CONTRACTOR SHALL SCHEDULE THE CUT LABORATION TO CONE OUT IN THE FIELD AND ESTABLISH A ROLLING PATTERN. THE USE OF NUCLEAR FIELD DENSITY DETERMINATIONS SHALL NOT BE ACCEPTED AS THE BASIS FOR ACCEPTANCE WITH RESPECT TO DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURING THAT THE COMPACTION OF THE ASPHALTIC CONCRETE IN PLACE WILL ATTAIN SEVENTY FIVE AND NINE PERCENT AIR VOIDS. THE CONTRACTORS RESPONSIBILITY FOR THE REQUIRED COMPACTION INCLUDES: THE SELECTION OF ROLLING EQUIPMENT AND SELECTION OF ROLLING PATTERNS TO ACHIEVE THE REQUIRED COMPACTION.

MAKE MIX TEMPERATURE RANGE AS THE OF PLACEMENT SHALL BE BETWEEN 280° AND 325°. THE ASPHALTIC MIXTURE SHALL NOT BE PLACED WHEN THE AIR TEMPERATURE IS BELOW 50°F AND MAY NOT BE PLACED WHEN THE AIR TEMPERATURE IS ABOVE 80°F AND RISING. THE TEMPERATURE BEING TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.

IN-PLACE COMPACTION CONTROL IS REQUIRED FOR ALL MIXTURES. ASPHALTIC CONCRETE SHOULD BE PLACED AND COMPACTED TO CONTAIN NOT MORE THAN NINE PERCENT AND NOT LESS THAN FIVE PERCENT AIR VOID UNLESS OTHERWISE INDICATED. THE PERCENT AIR VOIDS WILL BE CALCULATED USING THE MAXIMUM THEORETICAL SPECIFIC GRAVITY OR THE MIXTURE DETERMINED ACCORDING TO TXDOT TEST METHOD TEX-227-F (BOIGNOT SPECIMEN), WHICH SHALL EITHER BE CORES OR SECTIONS OF PAVEMENT. WILL BE TESTED ACCORDING TO TXDOT TEST METHOD TEX-207F. THE SAME SPECIMEN SHALL BE USED TO DETERMINE BOTH THE THEORETICAL DENSITY AND FIELD DENSITY.

PRIME COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATIONS 302.7 AND 202.5.8.1.

TACK COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATION 302.6.4.2.

HOT MIX DESIGNS SHALL FOLLOW N.C.T.C.O.G. SPECIFICATIONS 302.5.3 AND THE GRADING TABLES REFERENCED IN THIS SECTION. THESE MIXTURES WILL BE IN ACCORDANCE WITH TXDOT TEST METHOD TEX-204-F, METHOD OF DETERMINING MOISTURE.

FLOWABLE FILL SPECIFICATIONS

COMPOSITION OF FLOWABLE FILL SHALL INCLUDE NATIVE SAND OR A BLEND OF NATIVE SAND/MANUFACTURED SAND, CEMENT AND FLY ASH WHICH WILL PRODUCE A MATERIAL WITH UNCONFINED COMPRESSIVE STRENGTH OF 150 TO 450 PSI AFTER TWENTY-EIGHT DAYS.

FLOWABLE FILL MUST BE MIXED IN A CONCRETE BATCH PLANT OR A MOBILE TRANSIT AND SHALL HAVE A SLUMP OF 7"± TO EIGHT INCHES AND AN AIR CONTENT OF 5% TO TWENTY PERCENT. THE MIXTURE MUST BE ALLOWED TO SET PRIOR TO THE PLACEMENT OF ANY OVERLYING MATERIAL.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A MIX DESIGN TO BE USED FOR DAYS PRIOR TO THE START OF THE BACKFILL OPERATION. CONTRACTOR SHALL ALSO SUPPLY THE PUBLIC WORKS INSPECTOR A COPY OF THE BATCH PLANT DELIVERY TICKET FOR EACH DELIVERED TRUCKLOAD.

THE CITY MAY EXERCISE THE OPTION OF TESTING THE MATERIAL AT RANDOM. IT SHALL BE THE OWNER/DEVELOPER'S RESPONSIBILITY FOR ANY COST ASSOCIATED WITH TESTING OF THE MATERIAL.

TESTING OF MANHOLES

ALL MANHOLES SHALL BE VACUUM TESTED. MANHOLES SHALL BE TESTED IN THE PRESENCE OF THE CITY'S REPR

GENERAL NOTES FOR PRIVATE IMPROVEMENTS ONLY. REFER TO CITY STANDARDS, DETAILS & SPECIFICATIONS FOR PUBLIC & FIRE LANE IMPROVEMENTS

GENERAL GRADING & DRAINAGE NOTES

1. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS ARE BASED ON REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE GRAPHICAL REPRESENTATION OF THE UTILITIES SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. EXISTING TOPOGRAPHIC INFORMATION SHOWN IS BASED ON INFIELD SURVEY PREPARED BY WIER & ASSOCIATES, INC. ON MARCH 18, 2015. (EXCLUDES BELOW GRADE PUBLIC UTILITY LOCATIONS PROVIDED BY UTILITY COMPANY AS DESCRIBED ABOVE.)
2. NEW FINISHED CONTOURS SHOWN ARE TOP OF PAVEMENT IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED.
3. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED SHALL RECEIVE MINIMUM FOUR (4) INCHES OF TOPSOIL (OR TO DEPTH INDICATED ON LANDSCAPE ARCHITECT PLANS). THIS TOPSOIL TO BE PLACED AND LEVELED BY THE GRADING CONTRACTOR. THIS MATERIAL MAY BE STOCKPILED DURING STRIPPING OPERATIONS.
4. ROUGH GRADING ELEVATIONS SHALL BE AS FOLLOWS:
   FOUR INCHES (6") BELOW FINISHED CONTOURS IN EXCESS AREAS.
   THE DEPTH OF PAVEMENT, TYPICALLY SIX TO EIGHT INCHES, BELOW FINISHED CONTOURS IN FILLED AREAS, UNLESS OTHERWISE NOTED.
5. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY AND ARE NOT TO BE USED TO LAYOUT FOOTINGS.
6. GRADING CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERATION OF OR RELOCATION OF THE FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES IN CONFORMANCE WITH CITY STANDARDS.
7. GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.
8. THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY SMALL TEMPORARY SEDIMENT PONDS, SILT FENCES OR STEEL WIRE AND BURLAP OR BARRIERS OF OTHER TYPES AND SIZES AS DEEMED BY CITY STAFF. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION CONTROL AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
9. FOR THE WORK ON THE STATE OR CITY RIGHT-OF-WAY, THE GRADING CONTRACTOR SHALL:
   A. NOT STORE MATERIAL EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT. IN CASE OF MULTI-LANE HIGHWAYS, IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY.
   B. SHALL PROVIDE ALL NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES AND FLAGMEN AS REQUIRED BY THE LOCAL AUTHORITIES AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE GRADING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE TEXAS DEPARTMENT OF TRANSPORTATION, THE CITY, AND THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES OR TO THE TRAVELING PUBLIC.
   C. SHALL COMPLETE THE WORK TO THE SATISFACTION OF THE CITY PUBLIC WORKS DEPARTMENT AND OBTAIN A LETTER FROM THE DEPARTMENT STATING THAT THE WORK UNDER PUBLIC JURISDICTION IS ACCEPTABLE.
   D. POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR STATE.
10. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNERS REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER.
11. REFER TO PAVING DETAILS FOR TYPE OF PAVING AND BASE TO BE USED.
12. GRADING CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS OR TREES REMAINING ON SITE, UNLESS NOTED OTHERWISE ON PLANS AND SHALL COORDINATE WITH GENERAL CONTRACTOR.
13. GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCES OR RULES.
14. A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ONSITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.
15. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE, RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY GRADING CONTRACTOR.
16. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
17. ALL AREAS NOT COVERED BY BUILDING, PAVING OR PLANNED LANDSCAPING, SHALL BE GRASSED ON THIS LOT INCLUDING ADJACENT PARKWAYS.
18. BEFORE ANY MASSIVE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION AND EXTENSION OF TIME WILL BE GRANTED FOR THE ABOVE.
19. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES AND SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS AND SILT FENCES AS NEEDED.
20. ALL DISTURBED AREAS SHALL BE HYDROMULCH SEEDED UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL PREVENT SOIL STABILIZATION TREATMENT FROM LEAVING THE SITE BY WAY OF STORMWATER RUNOFF WHICH MAY DAMAGE DOWNSTREAM WATER COURSES, LAKES OR PONDS. ANY DAMAGE TO WILDLIFE OR FISH KILLS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
22. MAINTAIN AS MUCH EXISTING VEGETATION AS POSSIBLE AS WELL AS RE-ESTABLISHING THE GROUND COVER AS EARLY AS POSSIBLE. GRASS BUFFER STRIPS SHALL BE LEFT AROUND THE PERIMETER TO AID IN FILTERING SEDIMENTATION. A DENSITY OF TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO PREVENT EROSION SHALL BE ESTABLISHED ON ALL BERMS, SWALES AND SLOPES.
23. ALL SITE GRADING AND EARTHWORK CONSTRUCTION SHALL COMPLY TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
24. THE CITY OF GRAND PRAIRIE IS NOT RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, OR USE OF ANY DETENTION POND OR UNDERGROUND DETENTION FACILITY AND ASSOCIATED DRAINAGE EASEMENTS, HEREINAFTER REFERRED TO AS "IMPROVEMENTS", TO BE DEVELOPED, CONSTRUCTED OR USED BY OWNER SHALL INDEMNIFY, DEFEND OWNER OR HIS SUCCESSORS, ASSIGNS OR HEIRS AND HOLD HARMLESS THE CITY OF GRAND PRAIRIE, ITS OFFICERS, EMPLOYEES, AND AGENTS FROM ANY DIRECT OR INDIRECT LOSS, DAMAGE, LIABILITY, OR EXPENSE AND ATTORNEYS' FEES FOR ANY NEGLIGENCE WHATSOEVER, ARISING OUT OF THE DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, CONDITION OR USE OF THE OWNER "IMPROVEMENT", INCLUDING ANY NON-PERFORMANCE OF THE FOREGOING. SHALL REQUIRE ANY SUCCESSOR, ASSIGNS OR HEIRS IN INTEREST TO ACCEPT FULL RESPONSIBILITY AND LIABILITY FOR THE "IMPROVEMENT". ALL OF THE ABOVE SHALL, IT IS EXPRESSLY CONTEMPLATED THAT BE COVENANTS RUNNING WITH THE LAND. THE OWNER SHALL IMPOSE THESE COVENANTS UPON ALL THE LOTS OF THIS PLAT ABUTTING ADJACENT, OR DERIVED BY THE "IMPROVEMENT". IT IS ALSO EXPRESSLY CONTEMPLATED THAT THE OWNER SHALL IMPOSE THESE COVENANTS UPON ANY SUCCESSOR, ASSIGNS OR HEIRS IN INTEREST THE FULL OBLIGATION AND OWNER RESPONSIBILITY OF MAINTAINING AND OPERATING SAID "IMPROVEMENT". SHALL REQUIRE ANY SUCCESSOR, ASSIGNS OR HEIRS IN INTEREST TO ACCEPT FULL ALL OF THE ABOVE SHALL RESPONSIBILITY AND LIABILITY FOR THE "IMPROVEMENT" OR COVENANTS RUNNING WITH THE LAND.

EROSION CONTROL NOTES

1. CONTRACTOR TO INSTALL WIRE SEDIMENT FILTER AT END OF EACH WORK DAY TO PREVENT ENTRY OF SEDIMENT INTO PROPOSED STORM SEWERS DURING CONSTRUCTION.
2. ALL STAGING AREAS, VEHICLE PARKING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY DO NOT ADVERSELY AFFECT THE STORM WATER QUALITY.
3. ON-SITE FUEL STORAGE TANKS SHALL BE PROTECTED BY A BERMED OR OTHERWISE SPILL PROTECTED AREA.
4. A CENTRAL PIT WASH BASIN SHOULD BE CONSTRUCTED ON-SITE FOR THE PURPOSE OF TRUCK WASHING.
5. A MAINTENANCE PROGRAM SHALL BE DEVELOPED USING BEST MANAGEMENT PRACTICES FOR THIS PROJECT.
6. IN ORDER TO KEEP DISTURBANCE TO A MINIMUM, VEGETATION SHOULD BE RE-ESTABLISHED ON ALL DENUDED AREAS IN A TIMELY MANNER.
7. GENERAL CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR PREVENTING SEDIMENT OR OTHER POLLUTANTS FROM LEAVING THE SITE. CARE SHALL BE EXERCISED TO PREVENT THE FLOW OR OFF-SITE TRACKING OF SEDIMENT OR OTHER POLLUTANT TO ADJACENT ROADWAYS, INLETS, STORM SEWERS AND DRAINAGE DITCHES.
8. ALL SURFACE AREAS DISTURBED WITHIN OR ADJACENT TO CONSTRUCTION LIMITS MUST BE PERMANENTLY STABILIZED. STABILIZATION IS OBTAINED WHEN THE SITE IS COVERED WITH IMPERVIOUS STRUCTURES, PAVING OR A UNIFORM PERENNIAL VEGETATION COVER. THE PERENNIAL VEGETATION MUST HAVE A COVERAGE DENSITY OF AT LEAST 70 PERCENT. STABILIZATION IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
9. ALL PERIMETER EROSION CONTROL MEASURES AND ROCK STABILIZED EXIT MUST BE IN PLACE BEFORE STARTING SOIL DISTURBING ACTIVITIES.
10. THE GENERAL CONTRACTOR OR OWNER SHALL INSPECT EROSION CONTROL MEASURES AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. RECORDS OF EACH INSPECTION SHOULD BE RETAINED ON SITE WITH THE SWPPP. CONTRACTOR TO REPLACE OR REPAIR DAMAGED MEASURES AS NECESSARY. EROSION CONTROL MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN (7) CALENDAR DAYS.
11. GENERAL CONTRACTOR AND OWNER/DEVELOPER SHALL SUBMIT NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS TO THE EPA AND COPIES TO THE CITY OF GRAND PRAIRIE ENGINEERING. ALL EPA ASSIGNED PERMIT NUMBERS SHALL BE COPIED TO THE CITY WHEN THEY ARE AVAILABLE.
12. FOR ALTERNATIVE STABILIZATION AND EROSION CONTROL MEASURES, REFER TO THE CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP) MANUAL PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.
13. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, CONTRACTOR TO FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER ENTERS STORM DRAIN FACILITIES OR LEAVES THE SITE.
14. ROCK STABILIZED ACCESS SHALL BE CONSTRUCTED AT ALL POINTS USED AS AN EXIT FROM THE CONSTRUCTION SITE.
15. CONTRACTOR TO LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. SILT FENCE IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE OPENING IN THE FABRIC.
16. STORE ALL TRASH AND BUILDING MATERIAL IN AN ENCLOSURE UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES.
17. SURFACE STABILIZATION MEASURES MUST BE INITIATED WITHIN 14 DAYS IN ANY AREA WHERE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES FOR A PERIOD OF 21 DAYS OR MORE.
18. ALL EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN COMPLIANCE WITH THE CITY STANDARD EROSION CONTROL CONSTRUCTION DETAILS, SHEET 13 ATTACHED.
19. CONTRACTOR SHALL POLICE SITE REGULARLY AND KEEP SITE FREE OF TRASH AND CONSTRUCTION DEBRIS.

WALKWAY, MARKING AND SIGNAGE NOTES

1. ALL PEDESTRIAN WALKWAYS UTILIZED FOR DISABLED ACCESS ROUTE SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE "STATE OF TEXAS PROGRAM FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS", TEXAS ACCESSIBILITY STANDARDS (TAS) AND THE "AMERICANS WITH DISABILITIES ACT OF 1990" (ADA).
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CITY PERMITS AND NOTIFY THE CITY PRIOR TO CONSTRUCTING PUBLIC SIDEWALKS.
3. UNLESS REQUIRED OTHERWISE BY CITY REGULATIONS, ALL WALKWAYS SHALL BE CONSTRUCTED OF MINIMUM 3,000 PSI CONCRETE AND A MINIMUM CEMENT CONTENT OF 5.5 SACKS PER CUBIC YARD. ALL SIDEWALKS SHALL BE REINFORCED WITH A MINIMUM OF #3 BARS AT 18-INCH CENTERS EACH WAY LOCATED AT THE CENTER OF THE THICKNESS. THE STEEL SHALL BE PLACED ON CHAIR SUPPORTS BEFORE CONCRETE PLACEMENT. IF NECESSARY, DURING CONCRETE PLACEMENT, THE STEEL SHALL BE PULLED UP TO INSURE THE PROPER LOCATION OF REINFORCEMENT.
4. WALKWAYS SHALL BE CONSTRUCTED TO THE LINE AND GRADE INDICATED ON THE PLANS OR THE TYPICAL LOCATIONS SHOWN ON THE PAVING PLANS, IN RELATION TO PROPOSED CURB. SEE PAVEMENT NOTES ABOVE.
5. PRIVATE SIDEWALKS SHALL BE CONSTRUCTED ON NATIVE MATERIALS. DO NOT PLACE SAND UNDER PRIVATE SIDEWALKS OR HANDICAP RAMPS FOR LEVEL OF COURSE. PUBLIC SIDEWALKS SHALL BE CONSTRUCTED ACCORDING TO CITY DETAILS.
6. FORMS SET FOR SIDEWALKS SHALL BE TRUE TO LINE AND GRADE AND SHALL PROVIDE A SLOPE OF 1/4 INCH PER FOOT ACROSS THE SIDEWALK UNLESS INDICATED OTHERWISE ON THE PLANS. FORMS SHALL BE SET TO PROVIDE FOR A FULL DEPTH OF CONCRETE INDICATED ON THE PLANS AND FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS. UPON REMOVAL OF THE FORM WORK, THE CONTRACTOR SHALL IMMEDIATELY BACKFILL THE EDGES OF THE WALK FOR A MINIMUM OF ONE FOOT (1') EACH SIDE OF THE WALK.
7. 24-INCH BY 24-INCH DIAMETER ASPHALT-COATED CONDUIT WITH FIVE INCH (5") MINIMUM CONNECT SLEEVES SHALL BE INSTALLED ON 18-INCH CENTERS, ALONG WITH REDWOOD EXPANSION BOARD AND SEALING COMPOUND AS PER STANDARD EXPANSION JOINT DETAIL SHEET ALONG PERIMETER OF WHEEL CHAIR RAMP AND SIDEWALK.
8. PROVIDE 15-INCH MINIMUM LAP BETWEEN REINFORCING STEEL IN STREET AND REINFORCING STEEL IN WHEEL CHAIR RAMP.
9. SUBGRADE FOR WALKWAYS ABUTTING CURBS, WITHIN PARKING ISLAND AREAS OR BETWEEN THE PARKING AREA AND BUILDING, SHALL BE PLACED ON COMPACTED FILL OR FIRM COMPACTED EXCAVATED GRADE. FILLS FOR SIDEWALKS SHALL CONFORM TO THE SAME REQUIREMENTS AS CONTROLLED DENSITY FILLS IN PARKING AREAS WITH THE COMPACTED MATERIAL EXTENDING A MINIMUM 18 INCHES BEYOND THE WALKWAY.
10. JOINT SEALING MATERIAL UTILIZED IN WALKWAY AREAS BETWEEN THE PARKING AREA AND THE BUILDING FOR EXPANSION JOINTS SHALL CONSIST OF "POLYPHAME" MANUFACTURED BY W.R. MEADOWS, INC. OR EQUAL. THIS INCLUDES WALKWAYS ABUTTING PERIMETER PARKING IN FRONT OF BUILDING.
11. FOR WALKWAYS SIX FEET IN WIDTH OR LESS, GROOVED OR SAWED CONTRACTION JOINTS SHALL BE MADE AT CONFORM INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK. ON WALKWAYS GREATER THAN SIX FEET IN WIDTH, CONTRACTION JOINTS SHALL BE SAWED. CONTRACTION JOINTS SHALL ONLY BE SEALED WHERE CONCENTRATED RUNOFF OCCURS IN PARKING AREAS, ENTRANCES AND WALKWAYS AT THE BUILDING. SEAL PARKING LOT CONCENTRATED RUNOFF AREAS SAME AS PARKING PAVEMENT. SEAL WALKWAYS WITHIN 10 FEET OF BUILDING WITH "GEOMASTIC" AS MANUFACTURED BY W.R. MEADOWS OR EQUAL.
12. CONCRETE FINISH SHALL BE GROOVED FOR ALL WALKWAYS LESS THAN SIX FEET IN WIDTH AND MINOR ACCESS ROUTES GREATER THAN EIGHT FEET IN WIDTH. ALL HANDICAP ACCESS RAMPS SHALL HAVE SURFACE TEXTURE FINISH COMPLYING WITH ADA AND TAS GUIDELINES 302 AND 405.4.
13. JOINT SEALING MATERIAL FOR WALKWAY AND EXPANSION JOINTS IN THE INTERNAL PARKING AREAS AND EXTERNAL OPEN AREAS SHALL BE "HI SPEC" MANUFACTURED BY W.R. MEADOWS OR EQUAL.
14. CLEAN ALL JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION PRIOR TO SEALING.
15. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
16. ALL PAVEMENT MARKINGS SHALL BE FOUR INCHES WIDE, COLOR WHITE UNLESS INDICATED OTHERWISE ON THE DRAWINGS. STRIPING TO BE TWO COATS OF PAINT. SECOND COAT TO BE APPLIED IMMEDIATELY PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.
17. A MINIMUM CLEARANCE OF TWO (2) FEET SHALL BE MAINTAINED BETWEEN THE FACE OF CURB AND ANY PART OF A TRAFFIC SIGN.
18. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
19. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
20. FIRE LANE STRIPING WIDTH AND RADIUS TO BE COORDINATED WITH FIRE MARSHAL. WHERE FIRE LANE IS INDICATED ON PLANS, FIRE LANE IS ANTICIPATED TO REQUIRE SOLID SIX-INCH RED CONTINUOUS STRIPING ON BOTH SIDES AND CURB PAINTING. THE ABOVE FIRE LANE NO PARKING SHALL BE PAINTED ON MINIMUM 50-FOOT CENTERS WITH FOUR-INCH WHITE LETTERS WITHIN SOLID RED STRIPE PER FIRE CODE. PAINT TYPE AND COLOR SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.

TESTING

1. REFER TO PROJECT GEOTECHNICAL RECOMMENDATIONS FOR FREQUENCY OF CONCRETE TESTING AND TEST METHODS. ALL CONCRETE SHALL BE TESTED. IF TESTING IS NOT ADDRESSED IN GEOTECHNICAL RECOMMENDATIONS PROVIDE AS PER NTCOG ITEM 303.7.3 AND ITEM 303.7.4.

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PLANNING DEPARTMENT

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REGISTERED PROFESSIONAL ENGINEER
BRENDON W. WHELDON
102368
STATE OF TEXAS

9/22/15

SITE PLAN #: 120711

CROSSPOINT CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:

GENERAL NOTES

REVISIONS:

NO.	DATE	BY
1	9/24/15	PRE COMMENTS

PROJECT NO: 14042.00100

DRAWN BY:

03

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CASE NUMBER S1011054

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HANDICAP ACCESSIBILITY NOTES:

ACCESSIBLE ROUTE

1. CROSS SLOPE ALONG ACCESSIBLE ROUTE SHALL NOT EXCEED 2.0% AND COMPLY WITH T.A.S. 402.

2. A MINIMUM 5'x5' FLAT AREA SHALL BE PROVIDED AT EACH DOOR COMPLYING WITH T.A.S. 404 AND SHALL NOT EXCEED 2.0% IN ANY DIRECTION.

3. SEE GRADING PLAN SHEET 06 FOR SPOT GRADES. SPOT GRADES HAVE BEEN PROVIDED TO CONTRACTOR TO ASSIST IN THE CONSTRUCTION OF THE SIDEWALK AND HANDICAP AREAS. CONTRACTOR SHALL INSURE THAT ALL ACCESSIBLE SIDEWALK AND HANDICAP AREAS SHALL CONFORM TO ADA/TAS REQUIREMENTS AND NOTIFY PROJECT ENGINEER IF DISCREPANCIES ARE FOUND THAT DO NOT COMPLY WITH T.A.S. REQUIREMENTS.

4. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF ANY DISCREPANCIES ARE NOTED ON THE PLANS PRIOR TO CONSTRUCTION.

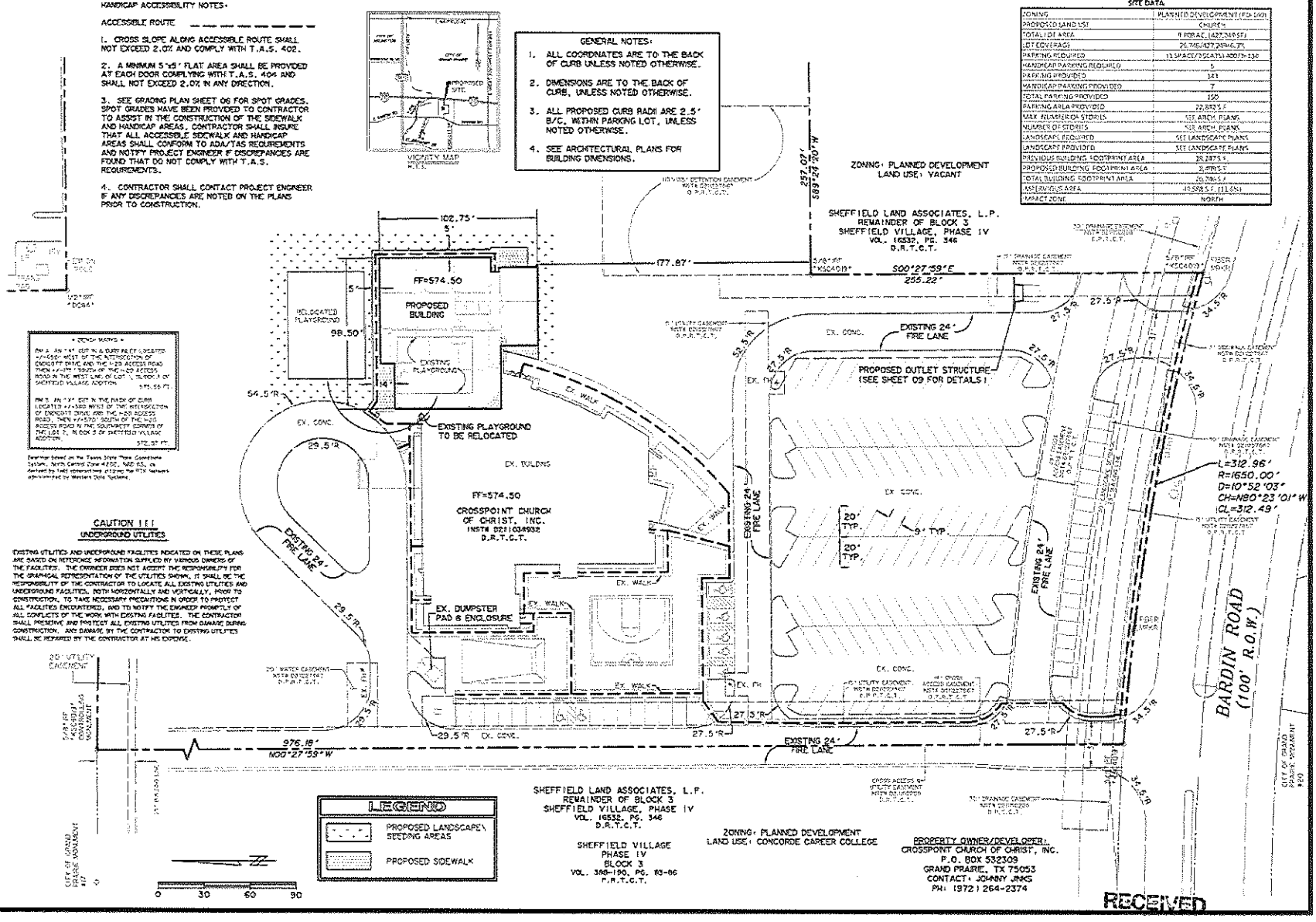
VICINITY MAP

GENERAL NOTES:

1. ALL COORDINATES ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE TO THE BACK OF CURB, UNLESS NOTED OTHERWISE.
3. ALL PROPOSED CURB RADII ARE 2.5' B/C, WITHIN PARKING LOT, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

SITE DATA

ZONING	PLANNED DEVELOPMENT (PD-590)
PROPOSED LAND USE	CHURCH
TOTAL LOT AREA	9.70 AC. (422,380 SF)
LOT COVERAGE	26,746/422,380=6.3%
PARKING REQUIRED	13 SPACES/35 SEATS=400 SEATS
HANDICAP PARKING REQUIRED	5
PARKING PROVIDED	161
HANDICAP PARKING PROVIDED	7
TOTAL PARKING PROVIDED	160
PARKING AREA PROVIDED	72,893 S.F.
MAX. ALLOWED # STORIES	SEE ARCH. PLANS
NUMBER OF STORIES	SEE ARCH. PLANS
LANDSCAPE REQUIRED	SEE LANDSCAPE PLANS
LANDSCAPE PROVIDED	SEE LANDSCAPE PLANS
PREVIOUS BUILDING FOOTPRINT AREA	28,287 S.F.
PROPOSED BUILDING FOOTPRINT AREA	26,746 S.F.
TOTAL BUILDING FOOTPRINT AREA	26,746 S.F.
RESERVOIR AREA	49,588 S.F. (1.16 AC.)
IMPACT ZONE	NORTH



CAUTION !!!
UNDERGROUND UTILITIES

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS ARE BASED ON REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE OWNER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE GRAPHICAL REPRESENTATION OF THE UTILITIES SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

CMA
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WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
CONSULTANTS:

7/29/15
12.0366

CROSSPOINT
CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:
SITE PLAN AND PAVING & DIMENSIONAL CONTROL PLAN

REVISIONS:

NO.	DATE	BY	
1	9/29/15	CMC	COMMENTS

PROJECT NO. 14142.00100
DRAWN BY

04

CASE NUMBER S151103A

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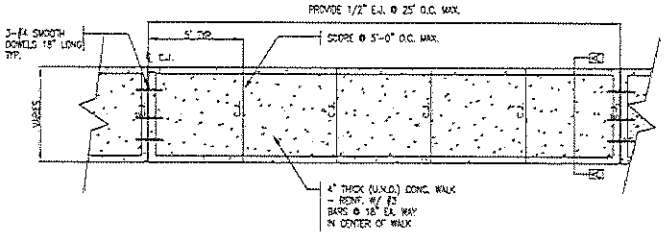
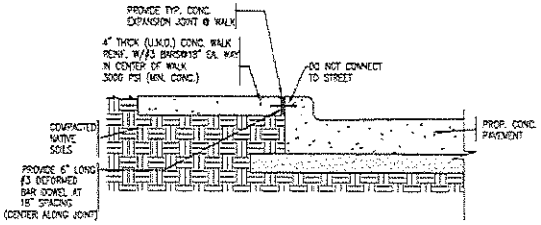


PLAN - TYP. CONC. WALK

N.T.S.



WALK TO CURB

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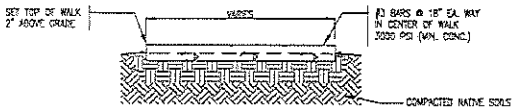

SECTION 'A-A' - TYP. CONC. WALK

N.T.S.

* THESE DETAILS ARE FOR ON-SITE SIDEWALKS. ALL OTHER SIDEWALKS AND RAMPS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN COMPLIANCE WITH LOCAL CITY CODES AND DETAILS.

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9/22/15

DATE ISSUED: 9/22/15

REV. NO: 160716

CROSSPOINT
CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:

PRIVATE ON-SITE SIDEWALK DETAILS

REVISIONS:

NO:	DATE:	BY:
1	9/24/15	PRE COMMENTS

PROJECT NO: 14243.00100

DRAWN BY:

05

CASE NUMBER 51011054

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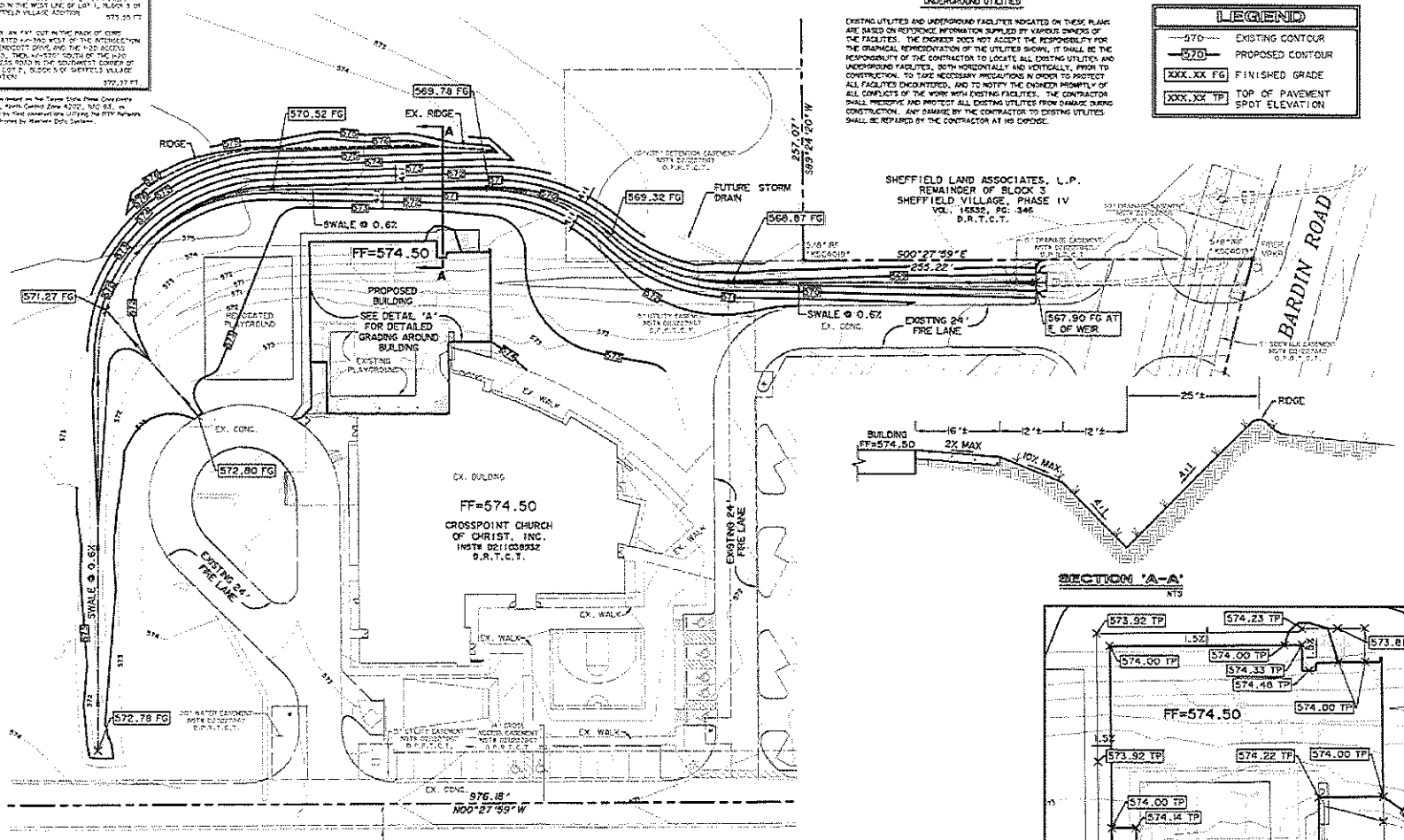
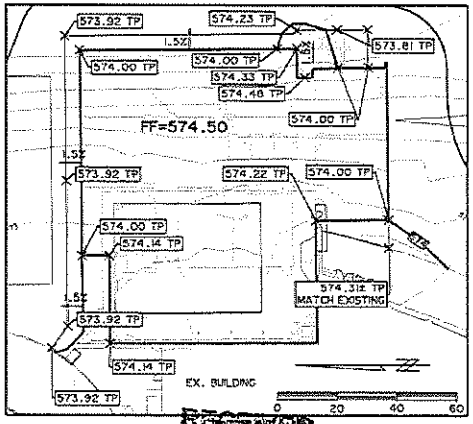
LEGEND

570	EXISTING CONTOUR
570	PROPOSED CONTOUR
XXX.XX FG	FINISHED GRADE
XXX.XX TP	TOP OF PAVEMENT SPOT ELEVATION



SECTION 'A-A'
NTS



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DATE ISSUED:
16-016
PROJ. NO.

CROSSPOINT
CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:

GRADING PLAN

REVISIONS:

NO:	DATE:	BY:
1	9/24/15	CMC COMMENTS

PROJECT NO: 14142.00100
DRAWN BY:

06

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CASE NUMBER S151102A

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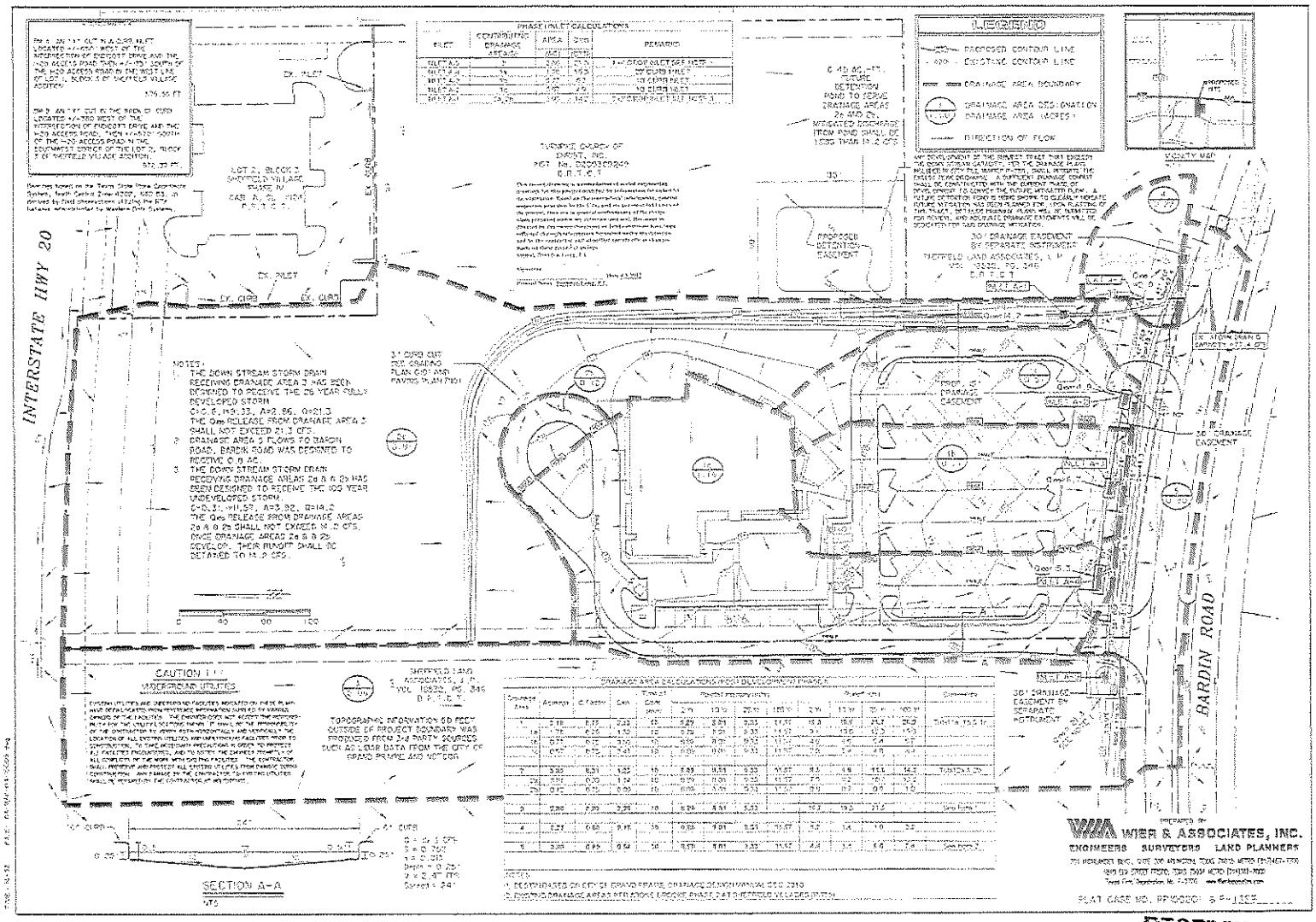

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ENGINEERS SURVEYORS LAND PLANNERS

CROSSPOINT
CHURCH OF CHRIST
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

9/22/15

CROSSPOINT
CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:
DRAINAGE AREA MAP PHASE I

REVISIONS:

NO.	DATE	BY	
1	9/24/15	SPC	COMMENTS

PROJECT NO. 142.02.00130

DRAWN BY

07

DRAINAGE AREA MAP PHASE I

D102

CASE NUMBER SP151034

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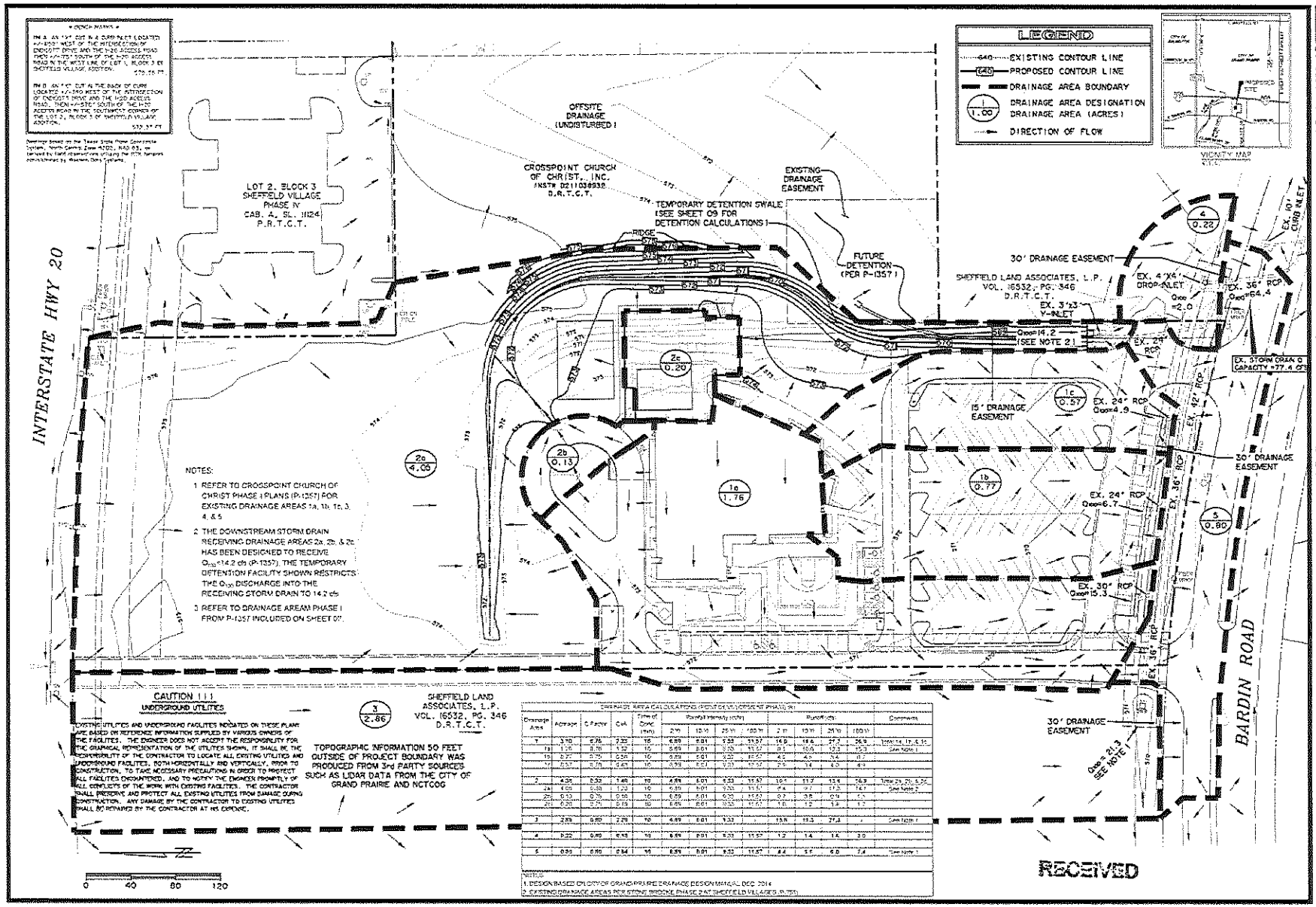
LEGEND
EXISTING CONTOUR LINE
PROPOSED CONTOUR LINE
DRAINAGE AREA BOUNDARY
DRAINAGE AREA DESIGNATION
DRAINAGE AREA (ACRES)
DIRECTION OF FLOW
VICINITY MAP
INTERSTATE HWY 20
BARDIN ROAD
OFFSITE DRAINAGE (UNDISTURBED)
CROSSPOINT CHURCH OF CHRIST, INC.
EXISTING DRAINAGE EASEMENT
TEMPORARY DETENTION SWALE (SEE SHEET 09 FOR DETENTION CALCULATIONS)
FUTURE DETENTION (PER P-1357)
LOT 2, BLOCK 3 SHEFFIELD VILLAGE PHASE IV CAB. A, SL. 1124 P.R.T.C.T.
30' DRAINAGE EASEMENT
SHEFFIELD LAND ASSOCIATES, L.P. VOL. 16532, PG. 346 D.R.T.C.T.
15' DRAINAGE EASEMENT
EX. 4'X4' DROP INLET
EX. 36" RCP
EX. 3'X3' Y-INLET
EX. 24" RCP
EX. 30" RCP
EX. STORM DRAIN CAPACITY =77.4 CFS
EX. 10' CURB INLET
2a 4.08
2b 0.13
2c 0.20
1a 1.76
1b 0.77
1c 0.57
3 2.86
4 0.22
5 0.80
NOTES:
1 REFER TO CROSSPOINT CHURCH OF CHRIST PHASE I PLANS (P-1357) FOR EXISTING DRAINAGE AREAS 1a, 1b, 1c, 3, 4, & 5
2 THE DOWNSTREAM STORM DRAIN RECEIVING DRAINAGE AREAS 2a, 2b, & 2c HAS BEEN DESIGNED TO RECEIVE Q100=14.2 cfs (P-1357). THE TEMPORARY DETENTION FACILITY SHOWN RESTRICTS THE Q100 DISCHARGE INTO THE RECEIVING STORM DRAIN TO 14.2 cfs
3 REFER TO DRAINAGE AREAM PHASE I FROM P-1357 INCLUDED ON SHEET 07.
CAUTION !!!
UNDERGROUND UTILITIES
EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS ARE BASED ON REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE GRAPHICAL REPRESENTATION OF THE UTILITIES SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
SHEFFIELD LAND ASSOCIATES, L.P. VOL. 16532, PG. 346 D.R.T.C.T.
TOPOGRAPHIC INFORMATION 50 FEET OUTSIDE OF PROJECT BOUNDARY WAS PRODUCED FROM 3rd PARTY SOURCES SUCH AS LIDAR DATA FROM THE CITY OF GRAND PRAIRIE AND NCTCOG
DRAINAGE AREA CALCULATIONS (PROPOSED CONDITIONS PHASE IA)
Drainage Area | Acreage | C Factor | C*A | Time of Conc (min) | Rainfall Intensity (in/hr) 2YR 10YR 25YR 100YR | Runoff (cfs) 2YR 10YR 25YR 100YR | Comments
1 | 3.10 | 0.76 | 2.35 | 10 | 6.89 8.61 9.33 11.57 | 16.2 18.4 21.7 26.9 | Total 1a, 1b, 1c
1a | 1.76 | 0.76 | 1.32 | 10 | 6.89 8.61 9.33 11.57 | 9.1 10.6 12.3 15.3 | See Note 1
1b | 0.77 | 0.76 | 0.58 | 10 | 6.89 8.61 9.33 11.57 | 4.0 4.9 5.4 6.7
1c | 0.57 | 0.76 | 0.43 | 10 | 6.89 8.61 9.33 11.57 | 2.9 3.6 3.9 4.9
2 | 4.38 | 0.33 | 1.46 | 10 | 6.89 8.61 9.33 11.57 | 10.1 11.7 13.6 16.9 | Total 2a, 2b, & 2c
2a | 4.08 | 0.30 | 1.22 | 10 | 6.89 8.61 9.33 11.57 | 8.4 9.7 11.3 14.1 | See Note 2
2b | 0.13 | 0.75 | 0.10 | 10 | 6.89 8.61 9.33 11.57 | 0.7 0.8 0.9 1.1
2c | 0.20 | 0.75 | 0.15 | 10 | 6.89 8.61 9.33 11.57 | 1.0 1.2 1.4 1.7
3 | 2.86 | 0.80 | 2.29 | 10 | 6.89 8.61 9.33 | 15.8 19.3 21.3 | See Note 1
4 | 0.22 | 0.80 | 0.18 | 10 | 6.89 8.61 9.33 11.57 | 1.2 1.4 1.6 2.0
5 | 0.80 | 0.80 | 0.64 | 10 | 6.89 8.61 9.33 11.57 | 4.4 5.5 6.0 7.4 | See Note 1
NOTES:
1. DESIGN BASED ON CITY OF GRAND PRAIRIE DRAINAGE DESIGN MANUAL DEC. 2014
2. EXISTING DRAINAGE AREAS PER STONE BROOKE PHASE 2 AT SHEFFIELD VILLAGE (P-1357)
30' DRAINAGE EASEMENT
Qxx = 2.3 SEE NOTE 1
0 40 80 120
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SEP 29 2015
PLANNING DEPARTMENT
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CROSSPOINT CHURCH OF CHRIST
EDUCATIONAL BUILDING
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX
SHEET TITLE:
DRAINAGE AREA MAP PHASE IA
REVISIONS:
NO. DATE BY
1 9/24/15 CPC COMMENTS
PROJECT NO. 14242.00100
DRAWN BY:
08
CASE NUMBER S151103A
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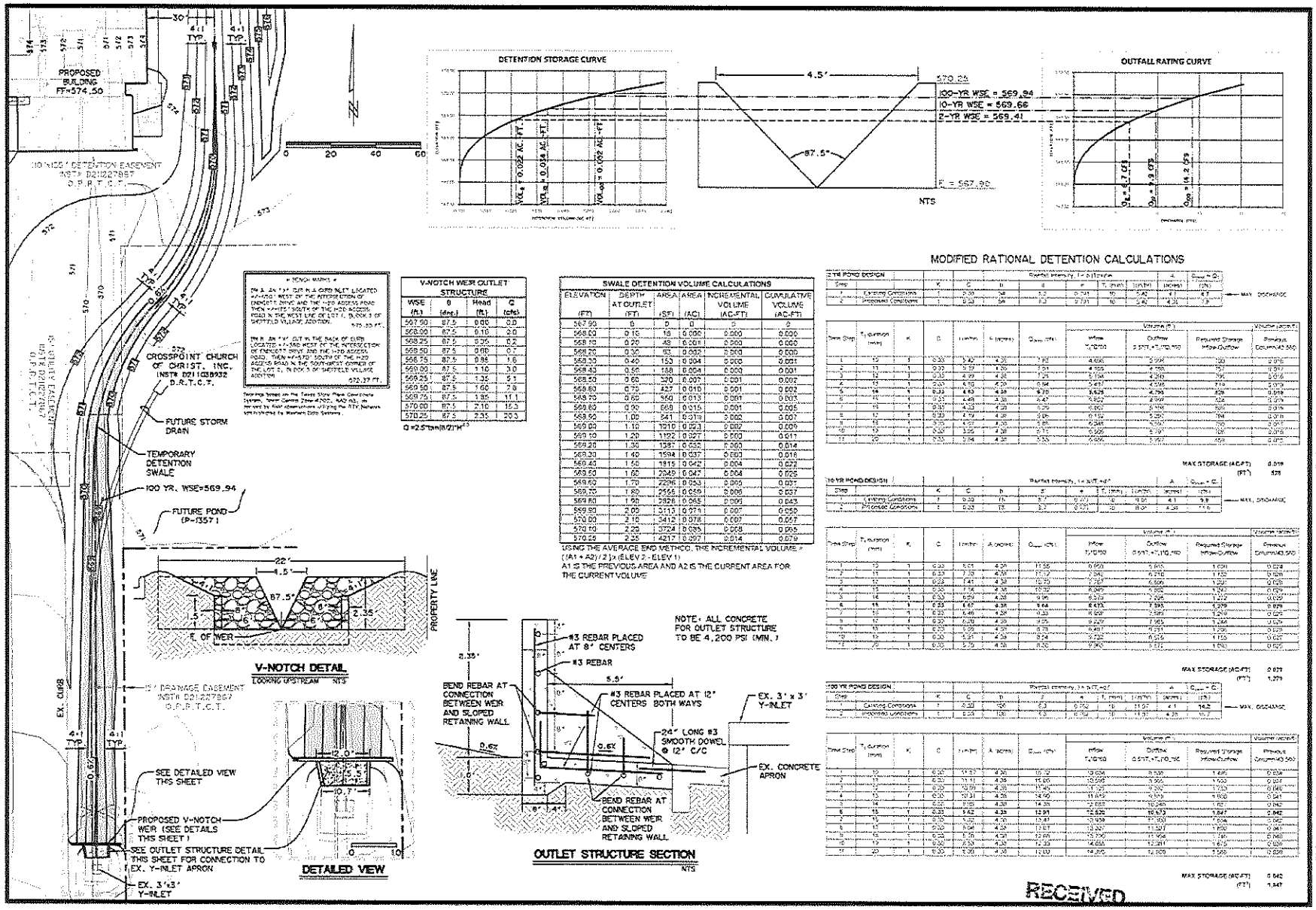

V-NOTCH WEIR OUTLET STRUCTURE			
WSE (ft)	θ (deg.)	Head (ft)	Q (cfs)
567.90	87.5	0.00	0.0
568.00	87.5	0.10	2.0
568.25	87.5	0.35	0.2
568.50	87.5	0.60	0.7
568.75	87.5	0.85	1.6
569.00	87.5	1.10	3.0
569.25	87.5	1.35	5.1
569.50	87.5	1.60	7.9
569.75	87.5	1.85	11.1
570.00	87.5	2.10	15.3
570.25	87.5	2.35	20.3

$Q = 2.5 \tan(\theta/2) H^{2.5}$

SWALE DETENTION VOLUME CALCULATIONS					
ELEVATION (FT)	DEPTH AT OUTLET (FT)	AREA (SF)	AREA (AC)	INCREMENTAL VOLUME (AC-FT)	CUMULATIVE VOLUME (AC-FT)
567.90	0	0	0	0	0
568.00	0.10	18	0.000	0.000	0.000
568.10	0.20	48	0.001	0.000	0.000
568.20	0.30	93	0.002	0.000	0.000
568.30	0.40	153	0.004	0.000	0.001
568.40	0.50	228	0.005	0.000	0.001
568.50	0.60	320	0.007	0.001	0.002
568.60	0.70	427	0.010	0.001	0.002
568.70	0.80	560	0.013	0.001	0.003
568.80	0.90	668	0.015	0.001	0.005
568.90	1.00	841	0.019	0.002	0.007
569.00	1.10	1010	0.023	0.002	0.009
569.10	1.20	1122	0.027	0.003	0.011
569.20	1.30	1387	0.032	0.003	0.014
569.30	1.40	1594	0.037	0.003	0.018
569.40	1.50	1815	0.042	0.004	0.022
569.50	1.60	2049	0.047	0.004	0.025
569.60	1.70	2296	0.053	0.005	0.031
569.70	1.80	2555	0.059	0.006	0.037
569.80	1.90	2826	0.065	0.006	0.043
569.90	2.00	3113	0.071	0.007	0.050
570.00	2.10	3412	0.078	0.007	0.057
570.10	2.20	3724	0.085	0.008	0.065
570.20	2.30	4217	0.097	0.014	0.079

USING THE AVERAGE END METHOD, THE INCREMENTAL VOLUME = ((A1 + A2)/2)x(ELEV 2 - ELEV 1)
A1 IS THE PREVIOUS AREA AND A2 IS THE CURRENT AREA FOR THE CURRENT VOLUME

MODIFIED RATIONAL DETENTION CALCULATIONS

2-YR POND DESIGN — Rainfall Intensity, I = a/(T+b)^n

Step		K	C	b	n	a	T_c (min)	I (in/hr)	A (acres)	$Q_{out} = C_2 I A$ (cfs)	
1	Existing Conditions	1	0.30	10	0.7	0.721	10	5.42	4.1	6.7	MAX. DISCHARGE
2	Proposed Conditions	1	0.33	10	0.7	0.721	10	5.42	4.1	7.3	

Time Step	T_c duration (min)	K	C	I (in/hr)	A (acres)	Q_{out} (cfs)	Volume (ft³) Inflow T/2/60	Outflow 0.5(T_c/T)Q_out/60	Required Storage Inflow-Outflow	Volume (acre-ft) Previous Columns/43,560
1	10	1	0.30	5.42	4.10	6.70	4,065	2,010	2,055	0.047
2	11	1	0.33	5.19	4.10	7.01	4,355	2,108	2,247	0.052
3	12	1	0.33	4.99	4.10	7.31	4,644	2,206	2,438	0.056
4	13	1	0.33	4.79	4.10	7.61	4,933	2,304	2,629	0.060
5	14	1	0.33	4.63	4.10	8.75	5,629	2,799	2,829	0.065
6	15	1	0.33	4.48	4.10	9.47	6,325	3,294	3,031	0.070
7	16	1	0.33	4.33	4.10	10.20	7,021	3,789	3,232	0.074
8	17	1	0.33	4.19	4.10	10.93	7,717	4,284	3,433	0.079
9	18	1	0.33	4.07	4.10	11.65	8,348	4,779	3,569	0.082
10	19	1	0.33	3.95	4.10	12.37	8,979	5,274	3,705	0.085
11	20	1	0.33	3.84	4.10	13.09	9,609	5,769	3,840	0.088

MAX STORAGE (AC-FT) 0.088

10-YR POND DESIGN — Rainfall Intensity, I = a/(T+b)^n

Step		K	C	b	n	a	T_c (min)	I (in/hr)	A (acres)	$Q_{out} = C_2 I A$ (cfs)	
1	Existing Conditions	1	0.30	10	0.7	0.721	10	6.91	4.1	8.5	MAX. DISCHARGE
2	Proposed Conditions	1	0.33	10	0.7	0.721	10	6.91	4.1	9.3	

Time Step	T_c duration (min)	K	C	I (in/hr)	A (acres)	Q_{out} (cfs)	Volume (ft³) Inflow T/2/60	Outflow 0.5(T_c/T)Q_out/60	Required Storage Inflow-Outflow	Volume (acre-ft) Previous Columns/43,560
1	10	1	0.30	6.91	4.10	8.50	5,175	2,550	2,625	0.060
2	11	1	0.33	6.61	4.10	9.31	5,541	2,730	2,811	0.065
3	12	1	0.33	6.41	4.10	10.10	5,907	2,910	2,997	0.069
4	13	1	0.33	6.14	4.10	10.92	6,273	3,090	3,183	0.073
5	14	1	0.33	5.89	4.10	11.74	6,639	3,270	3,369	0.077
6	15	1	0.33	5.67	4.10	12.56	7,005	3,450	3,555	0.082
7	16	1	0.33	5.46	4.10	13.38	7,371	3,630	3,741	0.086
8	17	1	0.33	5.28	4.10	14.20	7,737	3,810	3,927	0.090
9	18	1	0.33	5.11	4.10	15.02	8,103	3,990	4,113	0.094
10	19	1	0.33	4.95	4.10	15.84	8,469	4,170	4,299	0.098
11	20	1	0.33	4.80	4.10	16.66	8,835	4,350	4,485	0.103

MAX STORAGE (AC-FT) 0.103

100-YR POND DESIGN — Rainfall Intensity, I = a/(T+b)^n

Step		K	C	b	n	a	T_c (min)	I (in/hr)	A (acres)	$Q_{out} = C_2 I A$ (cfs)	
1	Existing Conditions	1	0.30	10	0.7	0.721	10	11.91	4.1	14.6	MAX. DISCHARGE
2	Proposed Conditions	1	0.33	10	0.7	0.721	10	11.91	4.1	16.1	

Time Step	T_c duration (min)	K	C	I (in/hr)	A (acres)	Q_{out} (cfs)	Volume (ft³) Inflow T/2/60	Outflow 0.5(T_c/T)Q_out/60	Required Storage Inflow-Outflow	Volume (acre-ft) Previous Columns/43,560
1	10	1	0.30	11.91	4.10	14.60	8,919	4,380	4,539	0.104
2	11	1	0.33	11.11	4.10	15.95	9,555	4,680	4,875	0.112
3	12	1	0.33	10.61	4.10	17.40	10,191	4,980	5,211	0.120
4	13	1	0.33	10.31	4.10	18.90	10,827	5,280	5,547	0.127
5	14	1	0.33	9.85	4.10	20.40	11,463	5,580	5,883	0.135
6	15	1	0.33	9.42	4.10	21.91	12,099	5,880	6,219	0.142
7	16	1	0.33	9.02	4.10	23.41	12,735	6,180	6,555	0.150
8	17	1	0.33	8.65	4.10	24.92	13,371	6,480	6,891	0.158
9	18	1	0.33	8.32	4.10	26.42	14,006	6,780	7,226	0.166
10	19	1	0.33	8.01	4.10	27.93	14,642	7,080	7,562	0.174
11	20	1	0.33	7.73	4.10	29.43	15,278	7,380	7,898	0.181

MAX STORAGE (AC-FT) 0.181

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REGISTERED PROFESSIONAL ENGINEER
THOMAS J. WIER
120266
STATE OF TEXAS

9/22/15
DATE ISSUED
120761
PROJECT NO.

CROSSPOINT CHURCH OF CHRIST
EDUCATIONAL BUILDING
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:
DETENTION CALCULATIONS

REVISIONS:

NO.	DATE	BY	
1	9/24/15		PRE COMMENTS

PROJECT NO. 142.07.301.00
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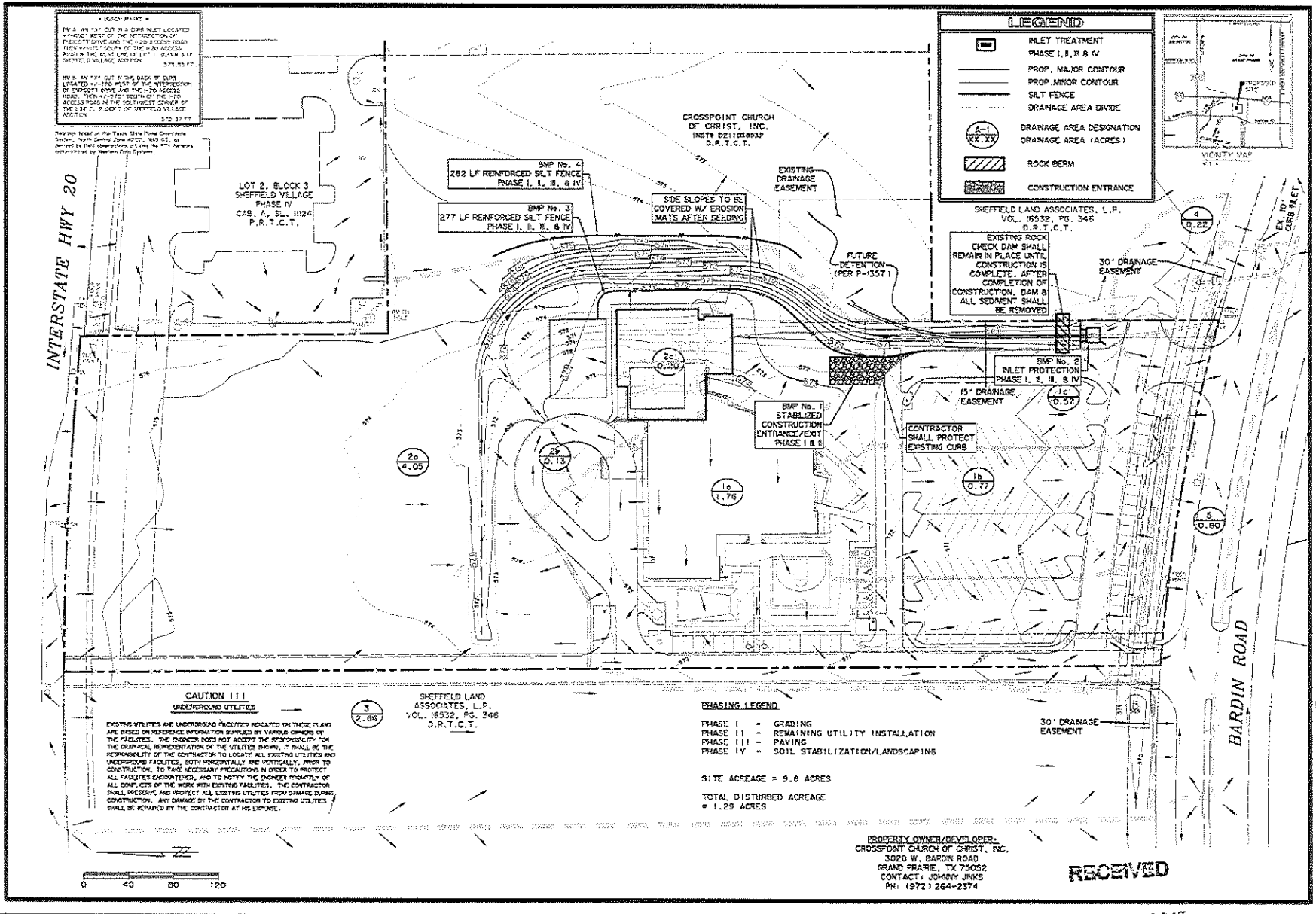

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CROSSPOINT CHURCH OF CHRIST
EDUCATIONAL BUILDING
3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SHEET TITLE:
EROSION CONTROL PLAN

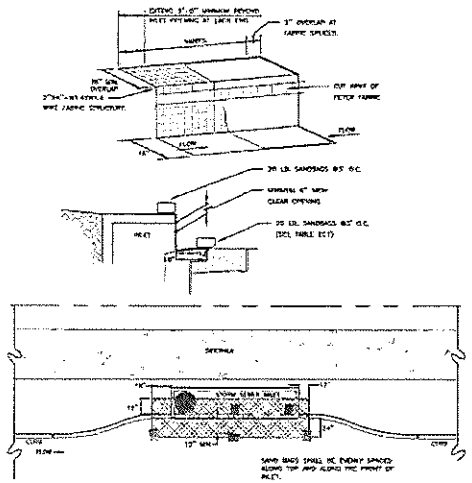
REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	9/24/15		PRC COMMENTS

10

SEP 29 2015

PLANNING DEPARTMENT

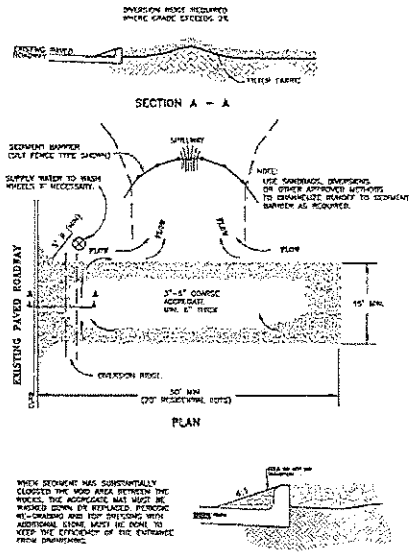


CURB INLET ON GRADE PROTECTION DETAIL
N.T.S.

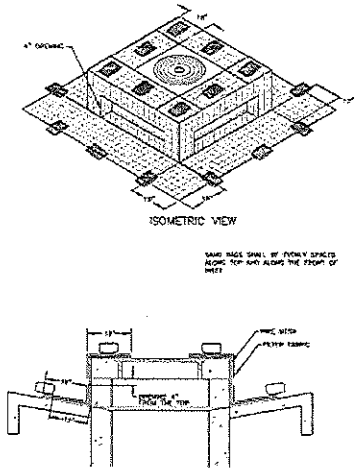
NOTES:
1. A SECTION OF FILTER FABRIC SHALL BE PLACED AS SHOWN ON THIS DETAIL TO PROVIDE A 6" MINIMUM FLOW OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
2. INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 3".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REPAIR THE INLET PROTECTION IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SURFACE OF NEIGHBOR IS STABILIZED.

TABLE EC1

INLET OPENING	MINIMUM NUMBER OF SAND BAGS	
	FRONT	REAR
5'	2	2
10'	3	3
15'	3	4
20'	4	4



TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT
N.T.S.



FILTER FABRIC WYE INLET PROTECTION
N.T.S.

ESTABLISHMENT OF GROUND COVER

1. EIGHTY PERCENT (80%) EVENLY DISTRIBUTED GROUND COVER, WITHOUT LARGE BARE AREAS, SHALL BE ESTABLISHED AFTER THE DESIGNATED AREAS HAVE BEEN COMPLETED TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS AND PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER.
2. GROUND COVER SHALL BE ESTABLISHED AS PER NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (N.C.T.C.O.G.) "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 202.6 SEEDING TURFGRASS. COPIES MAY BE OBTAINED FROM THE "NORTH CENTRAL COUNCIL OF GOVERNMENTS", PO DRAWER 5888, ARLINGTON, TEXAS, 76005-5888, PHONE (817) 640-3300, ALSO AVAILABLE AT WWW.NCTCOG.ORG/NTG/COUL. A COPY OF THE CONTRACT DOCUMENTS, PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON-SITE AT ALL TIMES BY THE CONTRACTOR.
3. PRIOR TO PLANTING, CONTRACTOR SHALL PROVIDE THE CITY ENGINEER, OR HIS DESIGNEE, WITH THE STATE OF TEXAS CERTIFICATE STATING ANALYSIS OF PURITY AND GERMINATION OF SEED.
4. PLANTING SEASON AND APPLICATION RATES. ALL PLANTING SHALL BE DONE BETWEEN THE DATES SPECIFIED IN TABLE 1, FOR EACH PERIOD. THE EXCEPT WHEN SPECIFICALLY AUTHORIZED IN WRITING. THE SEEDS PLANTED PER ACRE SHALL BE OF A TYPE SPECIFIED WITH THE MIXTURE, RATE AND PLANTING DATES AS SHOWN IN THE TABLE 1, OR AS SPECIFIED BY THE ENGINEER.

Table 1. Seeding Turfgrass

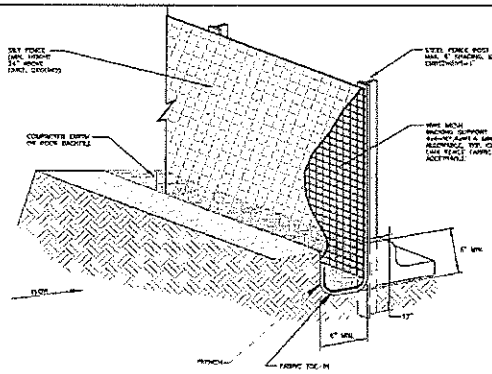
TYPE	PLANTING SEASON	SEED AND RATE
TYPE 1	MARCH THROUGH SEPTEMBER	BERMUDA GRASS, HULLED [illegible] (21.7-45) PLS* PER ACRE
TYPE 2	OCTOBER THROUGH FEBRUARY	RYE GRASS, [illegible] (48.4-90) PLS PER ACRE COMBINED WITH BERMUDA GRASS, HULLED 20-40 (9.1-45) PLS* PER ACRE.
OTHER	AS SPECIFIED ON PLANS	AS SPECIFIED ON PLANS

PLS = Pure Live Seed to determine by multiplying the gross weight times purity times the germination (for example, a 100 lb bag with 85% purity and 90% germination, (0.85)(0.90) = 0.765 x 100 = 76.5 lbs of pure live seed)

5. SEEDED AREAS SHALL BE MAINTAINED, INCLUDING WATERING AND MOWING, AT SUCH TIME AND IN A MANNER AND QUALITY TO ESTABLISH A MINIMUM 80% EVENLY DISTRIBUTED GROUND COVER, WITHOUT LARGE BARE AREAS, UPON COMPLETION AND FINAL ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.
6. IN LIEU OF SILT FENCES, THE CONTRACTOR MAY USE TEMPORARY EROSION CONTROL MATTING AND/OR MULCHING PERIMETER GUARD BY ENTEC (OR EQUAL) TO STABILIZE DISTURBED SOIL AREA. EROSION CONTROL MATTING AND MULCHING SHALL BE INSTALLED IN COMPLIANCE WITH N.C.T.C.O.G. STANDARD SPECIFICATIONS 201.16 AND 201.17. PROPRIETARY PRODUCTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. EROSION CONTROL MATS USED AGAINST PAVED AREAS SHALL HAVE A WIDTH OF NO LESS THAN 10 FEET. NO HAY PRODUCTS SHALL BE USED.
7. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

GENERAL NOTES

1. INSPECTIONS SHALL BE PERFORMED EVERY 7 DAYS AND ANY REPAIR OR MAINTENANCE ON EROSION CONTROLS AND BEST MANAGEMENT PRACTICES WILL BE MADE PROMPTLY AS NEEDED.
2. NO EXCAVATION OR CURB CUT-BACKS WILL BE ALLOWED WITHIN 18 INCHES OF THE STREET OR CURB WITHOUT APPROVAL FROM THE CITY ENGINEER.
3. STREETS WILL BE KEPT FREE FROM MUD OR EARTH MATERIALS DURING THE CONSTRUCTION.
4. USE OF ALTERNATE EROSION CONTROL DEVICES MUST BE APPROVED IN ADVANCE BY CITY ENGINEER AND SHOWN CLEARLY ON THE EROSION CONTROL PLANS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
5. THE REQUIREMENTS OF NCTCOG BEST MANAGEMENT PRACTICES STANDARDS SHALL APPLY TO ALL ALTERNATE EROSION CONTROL DEVICES AS AMENDED BY THE CITY.
6. CONCRETE WASH-OUT SHALL BE MAINTAINED AND SHALL HAVE SIGNAGE AND SHOWN ON EROSION CONTROL DRAWINGS.



ISOMETRIC PLAN VIEW
N.T.S.

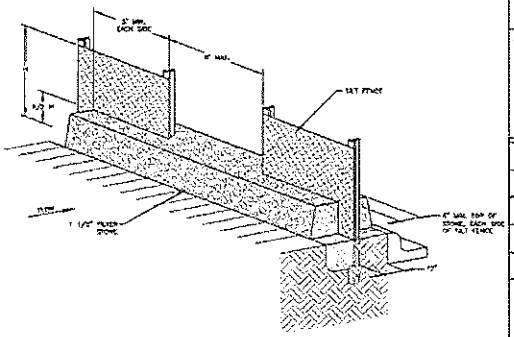
Silt Fence General Notes

1. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. Posts must be embedded a minimum of one foot.
2. The toe of the silt fence shall be trenched-in with spade or mechanical trencher, so that the down slope face of the trench is flat and perpendicular to the line of flow. Where silt fence cannot be trenched-in (e.g. pavement or rock surface), weight fabric flap with rock on uphill side to prevent flow from seeping under fence.
3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
4. Silt fence should be securely fastened to each steel support post or to woven wire which is form is attached to the steel fence post. There shall be a 3 foot overlap, securely fastened where ends of fabric meet.
5. Accumulated silt shall be removed when it reaches a depth 1/3. The silt shall be disposed of at an approved site and in such a manner as to not contribute to additional siltation.
6. Silt fence shall be removed when the site is completely stabilized.
7. Rock filter dams shall be used at concentrated high flow discharge areas in lieu of silt fence.

Erosion Control Mat Notes

5. Erosion control mats shall be in compliance with NCTCOG Best Management Practices. Erosion control mats may be used in place of, or in addition to silt fence for sheet flow filtering applications.
6. Mats shall be installed and anchored securely to the ground in compliance with the manufacturer's recommendations.
7. The width requirement of the erosion control mats shall be comparable to the width of the disturbed surface to be filtered. The minimum width shall be 10 feet for Single Family lots and 20 feet for Commercial applications, unless otherwise approved from the Storm Water Utility Manager.
8. The width of erosion control mats can be reduced when used in conjunction with silt fence and black soil vegetative buffer strips. In no applications will erosion control mats be less than 4 feet wide.

NOTE: STONE OVERFLOW STRUCTURES OR OTHER OUTLET CONTROL DEVICES SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE AT A MINIMUM OF EVERY 300 FEET.



SILT FENCE
STONE OVERFLOW STRUCTURE

RECEIVED

CERTIFICATION:
THIS CITY OF GRAND PRAIRIE ENGINEERING DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THE ENGINEER IS NOT CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET WERE NOT BORROWED FROM THOSE RECEIVED FROM THE CITY OF GRAND PRAIRIE.

STATE OF TEXAS
BRENDON M. WHITSITT
120096
LICENSED PROFESSIONAL ENGINEER

Brendon Whitsitt
9/22/15
DATE SIGNED

EROSION CONTROL
STANDARD DETAILS

1 OF 2

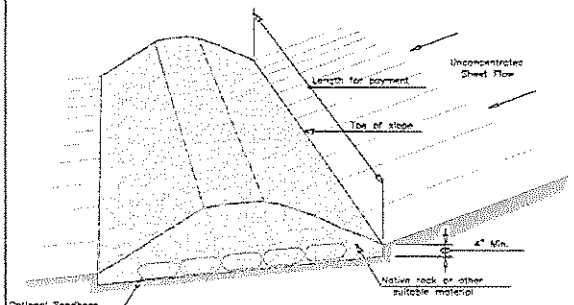
Grand Prairie
TEXAS
ENGINEERING

DESIGN	DRAWN	CHECK	DATE	SCALE	FILE	NO.
G.F.	J.P.	G.F.	MAR. 2014	N.T.S.		11

SEP 29 2015

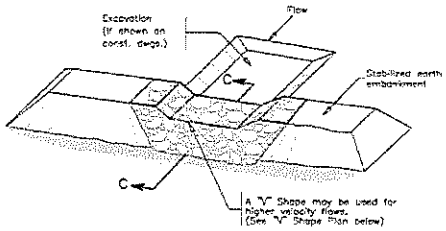
PLANNING DEPARTMENT

PSNTED: 9/22/2015 STD FILE: WEB-PAVING.STB LAST SAVED: 9/22/2015 5:58 PM SAVED BY: BRENDONW FILE: I:\EROSION-DETAILS-CITY-NX009.01.DWG



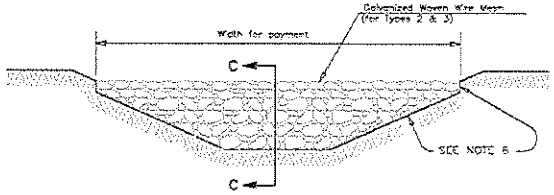
FILTER DAM AT TOE OF SLOPE

TYPE 1



FILTER DAM AT SEDIMENT TRAP

TYPE 1 OR TYPE 2

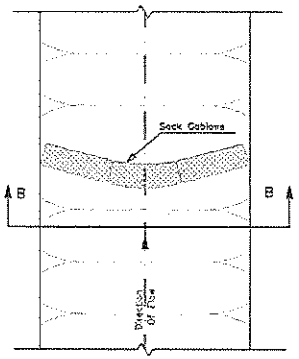


FILTER DAM AT CHANNEL SECTIONS

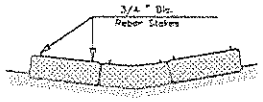
TYPE 1 OR TYPE 2 OR TYPE 3

GENERAL NOTES

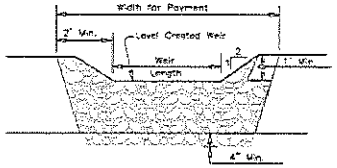
1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND/OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR "ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL".
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE SWPPP OR EROSION CONTROL PLANS.
4. STONE SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO EXISTING GROUND.
7. THE SEDIMENT TRAP FOR HOLDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT & SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO itself ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE THE MESH SHOULD BE SECURED ON STAKES TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3/4" DIA. REBAR STAKES.
10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.)
11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.
12. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.
13. MAX TEMPORARY EARTH SLOPE IS 3:1 WITH 4:1 RECOMMENDED IF PRACTICAL.



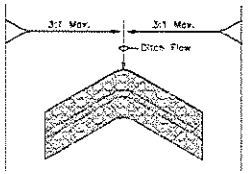
PLAN VIEW



SECTION B–B

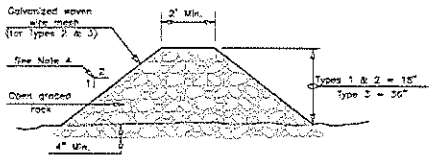


PROFILE



"V" SHAPE

(Plan View)



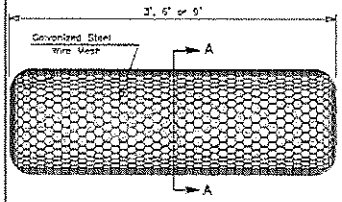
SECTION C–C

PLANS SHEET LEGEND

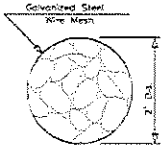
Type 1 Rock Filter Dam — TYPE 1

Type 2 Rock Filter Dam — TYPE 2

Type 3 Rock Filter Dam — TYPE 3



TYPE 4 (SACK GABIONS)



SECTION A–A

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

RESTRICTION: THIS CITY OF GRAND PRAIRIE STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THE ENGINEER IS ALSO ADVISING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF GRAND PRAIRIE.

STATE OF TEXAS — BRANDON M. BAGLEY — 120388 — LICENSED PROFESSIONAL ENGINEER

9/29/15

DATE ISSUED

EROSION CONTROL
ROCK FILTER DAM
ADOPTED FROM TXDOT STANDARD
DETAIL EC(2)–93
2 OF 2

Grand Prairie TEXAS

DESIGN	DRAWN	CHECK	DATE	SCALE	FILE	NO.
C.F.	J.P.	R.A.K.	MAR. 2014	N.T.S.		12

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PLANNING DEPARTMENT

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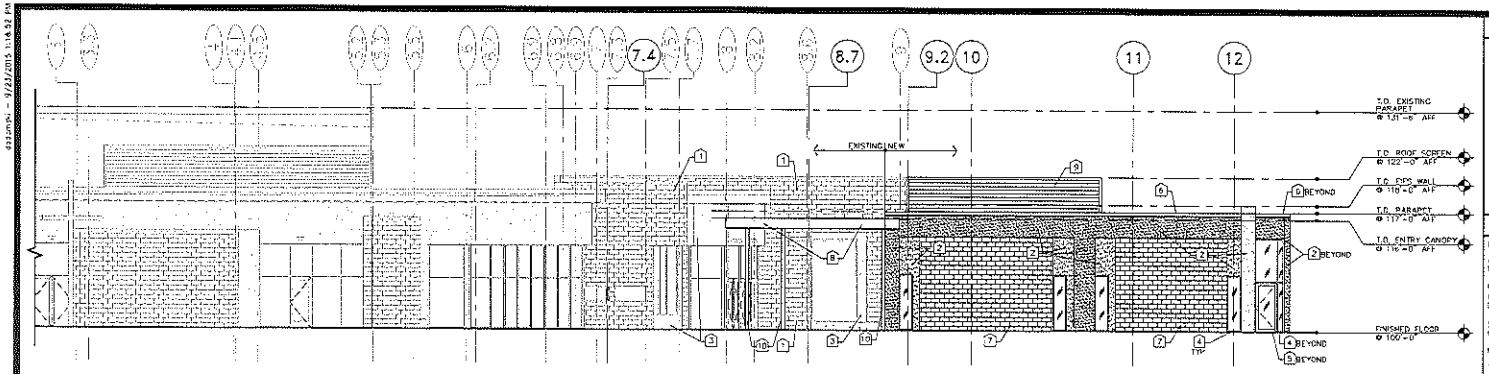
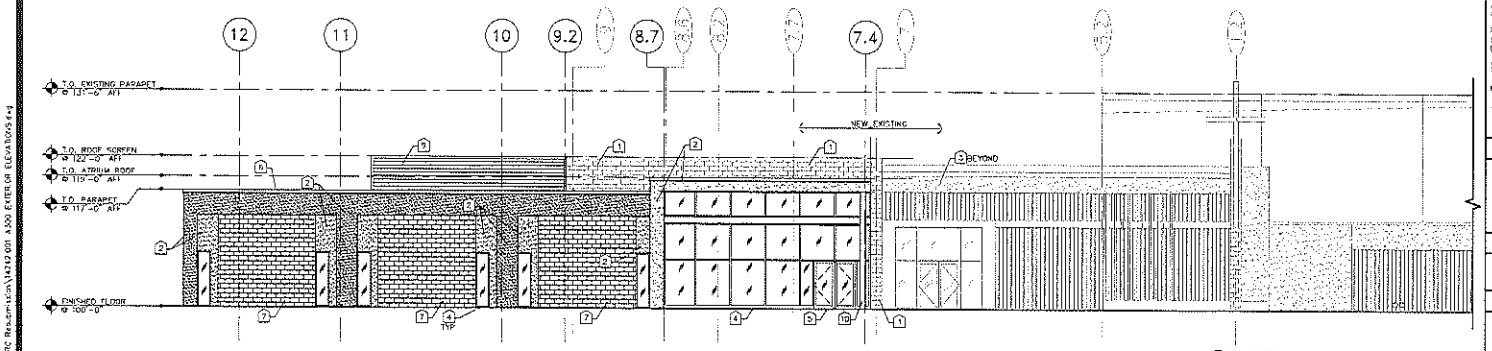


1/13 SOUTH ELEVATION
1/8"=1'-0"



2/13 NORTH ELEVATION
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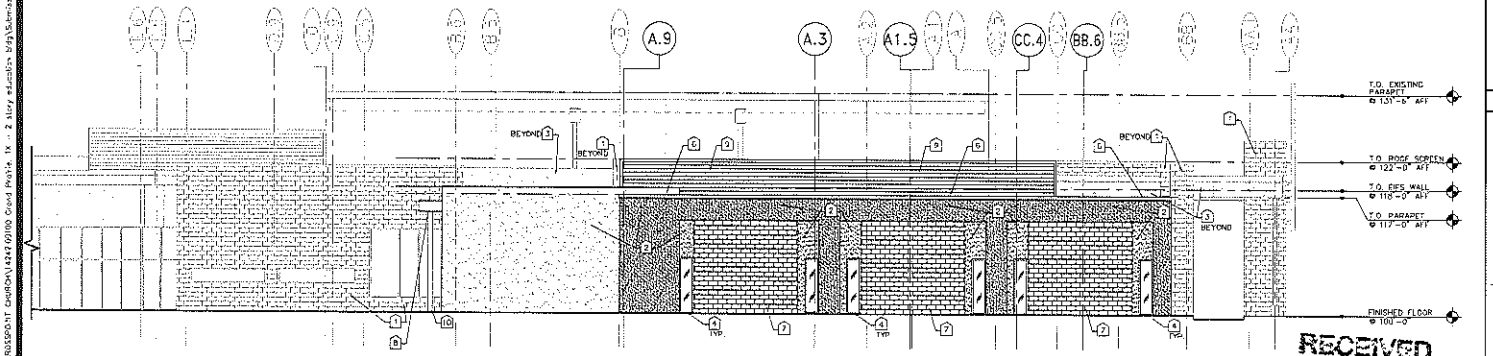

3/13 EAST ELEVATION
1/8"=1'-0"

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SOUTH ELEVATION CALCULATIONS

PRIMARY FACADE		
ARCHITECTURAL SPLIT FACE INTEGRAL COLOR MASONRY UNIT	408 SQ.FT	39%
PRE-FINISHED ALUMINUM AND GLASS STOREFRONT AND/OR DOORS AND WINDOWS	120 SQ.FT	10%
STUCCO WITH INTEGRAL COLOR TOP COAT	370 SQ.FT	31%
MISC. METALS	229 SQ.FT	20%
TOTAL	1,187 SQ.FT	100%

NORTH ELEVATION CALCULATIONS

PRIMARY FACADE		
ARCHITECTURAL SPLIT FACE INTEGRAL COLOR MASONRY UNIT	568 SQ.FT	30%
PRE-FINISHED ALUMINUM AND GLASS STOREFRONT AND/OR DOORS AND WINDOWS	588 SQ.FT	31%
STUCCO WITH INTEGRAL COLOR TOP COAT	531 SQ.FT	28%
MISC. METALS	292 SQ.FT	11%
TOTAL	1,881 SQ.FT	100%

EAST ELEVATION CALCULATIONS

SECONDARY FACADE		
ARCHITECTURAL SPLIT FACE INTEGRAL COLOR MASONRY UNIT	600 SQ.FT	28%
PRE-FINISHED ALUMINUM AND GLASS STOREFRONT AND/OR DOORS AND WINDOWS	96 SQ.FT	5%
STUCCO WITH INTEGRAL COLOR TOP COAT	1,062 SQ.FT	50%
MISC. METALS	374 SQ.FT	18%
TOTAL	2,132 SQ.FT	100%

NARRATIVE

THE PROPOSED BUILDING EXPANSION WILL PROVIDE ADDITIONAL SUNDAY SCHOOL CLASSROOM SPACES FOR CHILDREN AGES INFANTS TO 6TH GRADE. THE CHURCH DOES NOT OPERATE A DAYCARE, AND THE SPACES WILL TYPICALLY ONLY BE USED ON SUNDAY MORNING. ADDITIONALLY, THE BUILDING EXPANSION PROVIDES ADDITIONAL COMMONS (NARTHEX) SPACE. NO ADDITIONAL CAPACITY TO THE MAIN WORSHIP SPACE IS PROPOSED, SO NO ADDITIONAL PARKING IS PROVIDED. ALL CONDITIONS OF IBC 2009 SECTION 507.6 WILL CONTINUE TO BE MET IN THE PROPOSED EXPANSION.

GENERAL NOTES

1. ALL PROPOSED FINISHES MATCH FINISHES ON EXISTING BUILDING.

NOTES BY NUMBER

1. EXISTING MASONRY WALL
2. STUCCO FINISH WALL
3. EXISTING STUCCO FINISH WALL
4. PRE-FINISHED ALUMINUM STOREFRONT WINDOWS
5. PRE-FINISHED ALUMINUM AND GLASS DOORS
6. PRE-FINISHED METAL CAP
7. SPLIT FACE CONCRETE MASONRY UNITS WITH INTEGRAL COLOR TO MATCH EXISTING
8. PRE-FINISHED METAL FASCIA
9. ROOFTOP MECHANICAL EQUIPMENT SCREEN - PRE-FINISHED METAL WALL PANEL W/BOX RIB PROFILE
10. PAINTED METAL COLUMN

FINISH LEGEND

- STUCCO FINISH COLOR A
- STUCCO FINISH COLOR B
- STUCCO FINISH COLOR C
- STUCCO FINISH COLOR D
- SPLIT FACE MASONRY UNITS
- EXISTING STUCCO FINISH
- EXISTING SPLIT FACE MASONRY UNITS
- GRID CENTERLINE
- NEW COLUMN
- EXISTING COLUMN

C.M. ARCHITECTURE, P.A.
6060 NORTH CENTRAL EXPY, SUITE 850
DALLAS, TX 75206
PHONE: (214) 468-1192
FAX: (214) 468-1197
E-MAIL: general@cmarc.com
CONTACT: STEVE ELLIOTT
SELLIOTT@CMARCH.COM

SEAL:

REGISTERED ARCHITECT STEVEN M. ELLIOTT 13057 STATE OF TEXAS

DATE ISSUED
13057
REG. NO.

CROSSPOINT
CHURCH OF CHRIST

EDUCATIONAL BUILDING

3020 W. BARDIN ROAD
GRAND PRAIRIE, TX

SITE PLAN
APPLICATION
8/18/2015

SHEET TITLE:
EXTERIOR ELEVATIONS
AND NARRATIVE

REVISIONS:

NO:	DATE:	BY:
1	9/24/15	DRC Comments

PROJECT NO: 14242.00100
DRAWN BY: DJA

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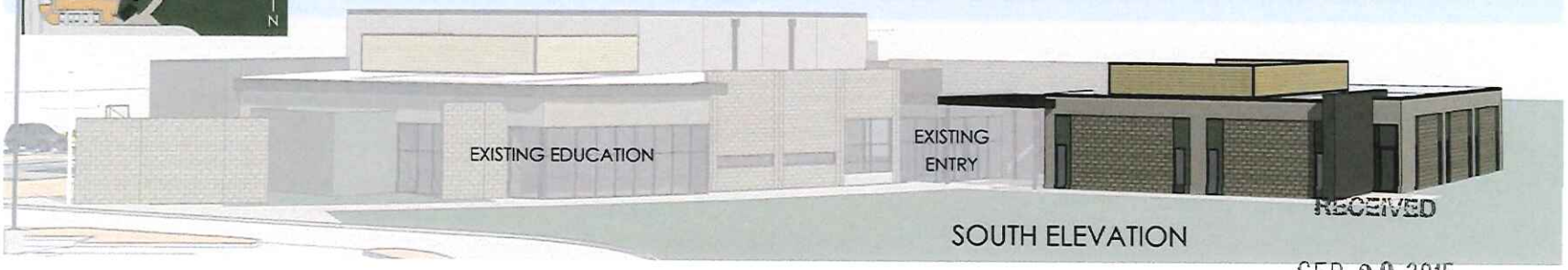
NORTH ELEVATION

EAST ELEVATION



SOUTH ELEVATION

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CROSSPOINT CHURCH of CHRIST

CMA