- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AND SHALL BE IN ACCORDANCE WITH THE MUNICIPAL STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION. ALL WORK NOT COVERED IN THE CONTRACT DOCUMENTS AND MUNICIPAL STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION SHALL BE GOVERNED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 4TH EDITION.
- EXISTING UTILITY LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. EXISTING UTILITIES SHOWN HAVE BEEN BASED ON AVAILABLE RECORD DRAWINGS AND SURFACE APPURTENANCE FIELD TIES ONLY. SOME UTILITY LINES AND SURFACE LOCATIONS MAY NOT BE SHOWN. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATIONS AND PROTECTION OF EXISTING UTILITIES WHETHER SHOWN OR NOT. THE CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES WHETHER SHOWN OR NOT, DAMAGED BY THE CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATIONS OF EXISTING UTILITIES SHALL NOT BE BASIS FOR ADDITIONAL COMPENSATIONS TO THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION AND PRIMARY CONTROL. ANY SUCH POINTS WHICH THE CONTRACTOR BELIEVES WILL BE DESTROYED SHALL HAVE OFFSET POINTS ESTABLISHED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MONUMENTATION DESTROYED BY THE CONTRACTOR SHALL BE REESTABLISHED AT CONTRACTORS EXPENSE BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
- . IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO: A.) PREVENT ANY DAMAGES TO PRIVATE PROPERTY AND PROPERTY OWNER'S POLES, FENCES, SHRUBS, ETC. B.) PROTECT ALL UNDERGROUND UTILITIES. C.) NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH TEXAS LAW. D.) FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNIDENTIFIED POTENTIAL CONFLICTS THAT MAY EXIST BETWEEN THE EXISTING UTILITIES AND CONSTRUCTION PLANS.
- ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS, INCLUDING EXISTING PRIVATE AND PUBLIC LANDSCAPE IRRIGATION SYSTEMS, SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENT WERE IN PRIOR TO THE DAMAGES. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE ADJUSTMENT OF SPRINKLER HEADS TO FINAL GRADE AND RELOCATION IF NECESSARY.
- THE DETENTION SYSTEMS SHALL BE FULLY FUNCTIONAL PER APPROVED PLANS PRIOR TO ANY PAVING BEING INSTALLED, INCLUDING SLABS. ABOVE GROUND DETENTION SHALL HAVE THE SIDES (AND BOTTOM IF APPLICABLE) STABILIZED WITH EITHER SOD OR ANCHORED SEEDED CURLEX AND APPROPRIATE EROSION CONTROL AT THE TOP OF THE POND AND AT THE OUTFALL STRUCTURE PRIOR TO ANY CONSTRUCTION OF PAVING AND/OR BUILDING SLABS. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. THE PONDING OF WATER IN STREETS, DRIVES, TRENCHES, ETC, WILL NOT BE ALLOWED. THE CONTRACTOR SHALL MAINTAIN EXISTING DRIVEWAYS ACCESS AT ALL TIME.
- . THE CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER AND WATER SERVICES AT ALL TIMES DURING CONSTRUCTION.
- AREAS OF THE SITE THAT WILL UNDERLIE FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES, FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS. ALL FILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH A MOISTURE CONTENT FROM -3% TO +1% OF OPTIMUM OR PER GEOTECH RECOMMENDATION. FIELD DENSITY TESTS PER MUNICIPAL REQUIREMENTS. FILL MATERIAL TO BE COMPACTED WITH SHEEPSFOOT ROLLER OUTSIDE OF BUILDING PAD.
- O. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING EXCAVATION. THE CONTRACTOR SHALL PROVIDE DETAILED PLANS AND SPECIFICATION FOR TRENCH SAFETY SYSTEMS THAT COMPLY WITH APPLICABLE LAWS GOVERNING EXCAVATION. THESE PLANS SHALL BE SEALED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF TRENCH SAFETY SYSTEM, REGISTERED IN THE STATE OF TEXAS. THE CONTRACTOR SHALL SUBMIT COMPLETED TRENCH SAFETY PLANS TO THE MUNICIPALITY PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF WORK RELATED TO EXCAVATION. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, "CONSTRUCTION SAFETY AND HEALTH REGULATIONS".
- 1. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE MUNICIPALITY.
- 12. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.
- 13. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE CONCRETE PAVEMENT.
- 14. CONTRACTOR SHALL COORDINATE THE PROTECTION OF EXISTING FRANCHISE UTILITIES AND APPURTENANCES INCLUDING EXISTING UTILITY POLES IN THE VICINITY OF CONSTRUCTION OPERATIONS WHETHER UTILITIES ARE SHOWN ON PLANS OR NOT. ANY DAMAGE INCURRED TO EXISTING FRANCHISE UTILITIES, APPURTENANCES, UTILITY POLES, LIGHT STANDARDS, ETC., BY CONSTRUCTION RELATED ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

		GENI	,
<u>ABBREVIATIONS</u>	<u>:</u>		
CRF CRS CP Mon. BM Ex TC Ex TP TC G PG TP TA TW BW RW	Capped Rebar Found Capped Rebar Set Control Point Monument Benchmark Existing Top of Curb Existing Top of Pavement Top of Curb Gutter Proposed Grade Grade at Top of Pavemen Grade at Top of Wall Grade at Retaining Wall Grade at Top of Grate	FG FF FP FL UE DE BL R.O.W. DR PR PAE SB WLE MAE	= ====
LINES & SYMB(	·		
			Proposed
<u>Existir</u>			Proposed:
<u></u>	01- — —	Contours	
	——— Aspho	alt Pavement	
	—— <i>#</i> —— Wo	ood Fence	
<del></del>	—⊸— Chair	Link Fence	<del></del>
——x———x—	××	ire Fence	<del></del>
	Ma	sonry Wall	
	Centerline of Cre	eek, Swale, o	r Waterway   —
——— W –	\	Vaterline	
——— SS -		itary Sewer	
====		orm Sewer	=======================================
	Over	head Power	
——— Е –	Bui	ried Power	——— Е ———
——— G –		Gas Line	
FH <sub>-</sub>	Fir	Fire Hydrant	
		ater Valve	M
<b>™</b> wm Water Meter			
⊙ ssмн Sanitary Se		Sewer Manh	ole
ĞGW	Guy Wire		V
ΆſĿ	Li	Light Pole	
Ø	Po	Power Pole	
		Tree	
	D	enchmark	

- 15. THE CONTRACTOR SHALL LOCATE AND RECORD EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TEMPORARILY REMOVE AND CAP IRRIGATION SYSTEM AS NECESSARY FOR CONSTRUCTION AND SHALL REPLACE THE PORTION REMOVED WITH EQUIVALENT SYSTEMS. CONTRACTOR SHALL COORDINATE ANY IRRIGATION WORK WITH THE MUNICIPALITY AND PROPERTY OWNER'S REPRESENTATIVES.
- 16. THE CONTRACTOR MUST CEASE ALL CONSTRUCTION OPERATIONS IMMEDIATELY IF A SUSPECTED ARCHEOLOGICAL OBJECT/ARTIFACT IS UNCOVERED DURING CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY CONTACT THE TEXAS HISTORICAL COMMISSION AND THE MUNICIPALITY. PROJECT WORK WILL NOT COMMENCE UNTIL PROPER PERMITS ARE IN PLACE AND PROVIDED TO THE MUNICIPALITY.
- 17. ALL PAVING DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- 18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL HANDICAPPED ACCESSIBILITY REQUIREMENTS INCLUDING SIGNAGE, TEXTURES, COLORING, MARKINGS, AND SLOPES OF ADA/TAS 2012 ACCESSIBLE ROUTES & RAMPS, AND PARKING SPACES.
- 19. ALL PIPE LENGTHS MEASURED FROM STATION TO STATION BASED ON THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

### 20. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARISE.

- 1. ALL WATER LINES SHALL BE PVC PIPE CONFORMING TO A.W.W.A. STANDARD C-900 DR14 PVC FOR ANY PIPE 12" OR SMALLER AND DR18 PVC FOR ANY WATERLINE LARGER THAN 12", WITH NSF SEAL, PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH MUNICIPAL AND/OR NCTCOG STD. SPECS., UNLESS OTHERWISE NOTED WITHIN THE CONSTRUCTION PLANS.
- 2. CONTRACTOR SHALL INSTALL BLUE EMS DISK ON THE PUBLIC WATER LINE EVERY 250', CHANGE IN DIRECTION, VALVE, FIRE HYDRANT, AND SERVICES CONNECTIONS TO PUBLIC MAIN.

## GENERAL NOTES FOR PAVING IMPROVEMENTS

GENERAL NOTES FOR WATER IMPROVEMENTS

- 1. THE SUB GRADE SHALL BE PROOF ROLLED AND OBSERVED BY THE CONSTRUCTION INSPECTOR PRIOR TO AND AFTER SUB-GRADE
- 2. INDIVIDUAL WATER AND SEWER SERVICES AND WATER VALVES SHALL BE MARKED IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
- 3. THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY/MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY A REGISTERED TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE MUNICIPALITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO (72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
- 4. MANHOLE RIM ELEVATIONS, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. SHALL BE ADJUSTED TO FINISHED GRADE BY THE PAVING CONTRACTOR AT THE TIME OF PAVING.
- 5. THE PAVING CONTRACTOR SHALL INSTALL A BLUE REFLECTOR IN THE STREET OR FIRE LANE CENTERLINE AT THE LOCATION OF EACH FIRE HYDRANT.
- 6. THE CONTRACTOR SHALL PREPARE ALL TRAFFIC CONTROL PLANS AND SUBMIT TO THE MUNICIPALITY PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS FOR WORK WITHIN THE MUNICIPALITY. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D AND AS MODIFIED BY THE TXDOT SUPPLEMENT TO THE M.U.T.C.D. THE PLAN SHALL ADDRESS THE REQUIREMENTS FOR ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS, HOURS OF CONSTRUCTION, AND OTHER DEVICES AS NECESSARY FOR SAFE TRAFFIC CONTROL.

#### GENERAL NOTES FOR SANITARY SEWER IMPROVEMENTS

All construction shall conform to the requirements of the "Standard Specifications for

Public Works Construction" by the North Texas Central Council of Governments, 4th edition amended by the City of Rockwall. The CONTRACTOR shall reference the

latest City of Rockwell standard details provided in the Rockwell Public Works

Department, Engineering Divisions "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of

the NCTCOG Standard Specifications and Details and the City of Rockwal

The CONTRACTOR shall protect existing property monumentation and primary control. Any such points which the CONTRACTOR believes will be destroyed shall

have offset points established by the CONTRACTOR prior to construction, Any

monumentation destroyed by the CONTRACTOR shall be re-established at

Any item called out for on the plans that does not have a specific bid item shall be

The CONTRACTOR is solely responsible for performing all construction layouts fro

the site layout control points, and from the dimensions and contorlines shown. The

CONTRACTOR must notify the engineer of any discrepancies before proceeding with

CONTRACTOR shall take all available precautions to control dust. CONTRACTOR

shall control dust by sprinkling water (no separate pay), or as approved by the City and

It is the CONTRACTOR's responsibility to maintain a neat and accurate redline recor

of construction for the City's records. The CONTRACTOR shall provide the City full

size reproducible markups that record all construction deviating from the plans. These redline construction plan records shall be submitted to the City at the end of the job

and sign by the CONTRACTOR. These records must be received or the City will a

The CONTRACTOR or developer shall be responsible, as the entity exercisi

Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ), This

includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the

Notice of Termination (NOT) and any Notice of Change (NOC) and is required to

Erosion control devices as shown on the erosion control plan for the project shall

All erosion control devices are to be installed in accordance with the approved ple

specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project

construction. Changes are to be reviewed by the design engineer and the City of

Erosion control devices shall be placed and in working order prior to start

If the Brosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP)

approved cannot appropriately control crosion and off-site sedimentation from t

project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when

All erosion control devices shall be inspected weekly by the CONTRACTOR and after

The CONTRACTOR shall not dispose of waste and any materials into streams

waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials. Disposal site shall be documented and

CONTRACTOR shall grade ground and ditches disturbed by construction to prevent punding of storm water runoff. Grading shall be subsidiary to the appropriate bid item for unclassified street and unclassified channel excavation. Topsoil shall be stockpiled

of 4-inches (no pay item). CONTRACTOR shall replace grass areas disturbed by

The CONTRACTOR shall provide 4 inches of top soil in all parkways that are to be

sodded. Top soil shall be approved by the City in writing. Topsoil shall be subsidiary

All areas outside pavement disturbed by construction activities shall have grass so

established immediately. Sod shall match existing yard type. Payment shall be made under the appropriate bid schedule item. Areas disturbed outside the R.O.W. or limits

F (972) 771-774

of construction shall have grass sod established immediately at the CONTRACTOR

**GENERAL CONSTRUCTION NOTES** 

**PUBLIC WORKS DEPARTMENT** 

and replaced to a minimum depth of 6-inches and disc harrowed to a minimum depth

construction activities with solid sod. Sodded areas shall be watered and maintaine

inspection's reports to the engineering inspection after each inspection.

operational control, for all permitting as required by the Environmental Prot

release final retainage or acceptance on the job

installed prior to the start of land disturbing activities.

EROSION CONTROL & VEGETATION

CONTRACTOR shall video record and provide a copy to the construction inspector of

Standards of Design and Construction" manual on the project site at all times

ONTRACTOR's expense by a registered professional land surveyor.

- 1. SANITARY SEWER PVC PIPE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
- 2. AFTER COMPLETION OF ALL SANITARY SEWER TESTING (I.E. MANDREL AND AIR) CONTRACTOR SHALL PERFORM A TELEVISION INSPECTION AND PROVIDE A VIDEOTAPE TO THE MUNICIPALITY. ALL MANHOLES SHALL BE VACUUM TESTED.
- 3. ONE JOINT OF 150-PSI PRESSURE RATED PIPE SHALL BE INSTALLED AND CENTERED UNDER ALL PROPOSED WATER PIPE CROSSINGS.

FRANCHISE UTILITY NOTES

phone lines prior to construction.

uring the duration of construction activities.

the city prior to being removed.

bid item. Brick mailbox shall match existing bric

equal to or better than existing ones or meet

and property owner's representatives.

Trash service shall be maintained throughout the duration of constru

FENCES, TREES, LANDSCAPING, AND IRRIGATION NOTES

the entire job site before construction starts. Video record of the site will be used to dispute discrepancies of any precessing conditions of the project site before

I. A suggested traffic control sequence plan is provided in the plan set. At a minimum the CONTRACTOR will be required to use the suggested sequence plan. If the CONTRACTOR

all major rain events, or more frequently as dictated in the project Storm Water
Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of

MAILBOXES, MAIL SERVICE AND TRASH SERVICE NOTES

Reasonable effort has been made to show the location of all known underground frenchi

or all existing subsurface franchise utilities or utility line, or to show them in their exact local

Existing franchise utilities shown in these plans reflect approximate locations price

relocations. Some relocations have occurred with utility pole, gas, phone and cable utilities. Tr CONTRACTOR shall contact Dig-Tess to locate existing and new utilities not shown in the

CONTRACTOR shall support utilities where crossing with proposed storm sewer, water liq

phone lines in these plans are approximate. The CONTRACTOR shall contact Atmos, TXU/Oncor, AT&T and Charter to verify location and depth of all existing gas, electric and

CONTRACTOR shall have and pay for TXU/Oncor, AT&T and/or Charter support and prote

choses to change the traffic control sequencing, a traffic control sequencing plan and traffic control sheets of each phase will have to be provided for review and approval by the City. Al

Pedestrian and vehicular traffic flow, safety and access shall be maintained during all phases of construction. Barricading and traffic control during construction shall be the responsibility of

the CONTRACTOR and shall conform to the "Texas Manual on Uniform Traffic Contro

Devices ", latest edition, Part IV in particular. Traffic flow and access shall be maintained

during all phases of construction unless otherwise noted on the traffic control plan. The CONTRACTOR is responsible for providing traffic safety measures for work on the project

The CONTRACTOR shall assume full responsibility for public sufety in the construction are

the CONTRACTOR shall furnish, install, maintain and remove all necessary traffic contra

construction to all local residents, businesses, mail service, trash pick-up and emergence

No paffic signs shall be taken down without permission from the City. CONTRACTOR needing

to move and replace traffic sign for construction purposes should be paid for under traffic contro

CONTRACTOR will furnish and install all signage in accordance with TMUTCD guidelines

delivered to municipal service center, streets division. All replaced signs shall be new. See City

Existing mailboxes in conflict with construction shall be taken out of service, removed as

Temporary mailbox shall be provided and maintained throughout the project where existing or

The removal, replacement or reconstruction of any fence for the convenience of construction shall be at the CONTRACTOR's expense (no separate pay). New materials shall match existing

fences. All wood fences shall be replaced with new ceder with the post matching C

Temporary fencing shall be required where there is evidence of livestock and where damaged of

The removal and replacement of all shrubs, plants, trees, etc. For the convenience of construction shall be at the CONTRACTOR's expense (no separate pay). New shrubs, tree, etc. Shall be

The CONTRACTOR shall locate and record existing irrigation systems prior to construction. If irrigations systems are damaged during construction the CONTRACTOR shall repair to same or better condition. An irrigator licensed in the state of Texas shall repair all damaged caused by

construction. CONTRACTOR shall coordinate any irrigation work with the City of Rockwall

ONTRACTOR shall replace any trees removed or destroyed that are not shown in these plans

to be removed or shall pay fair market value to the owner as determined by the owner. (No

removed fences are not to be replaced by the end of the same work day.

All shrubs, plants, trees, etc. must be approved by the City before removal.

boxes are being removed. Addresses shall be provided on all temporary mail boxes. Payment for removal and replacement of existing mailbox will be paid for under the approp-

replace to the same or better condition and placed in a location approved by the city/property owner. Photographs of the mailbox shall be taken with the address shown, shall be provided to

Prior to installation of signage, CONTRACTOR shall stake locations and receive approval from City on locations. All signage that is removed by the CONTRACTOR shall be saved and

devices in conformance with the Texas Manual on Uniform Traffic Control Devices (Part 6). The CONTRACTOR shall provide access to properties at all times during each phase of

shall be signed and sealed by a Registered Professional Engineer with the State of Texas

Any damage incurred to existing franchise utilities, appurtenances, utility poles, light stands etc. By construction related activities shall be the sole responsibility of the CONTRACTOR

and sanitary sewers. Method of support shall be provided to the owner 24 hours prior to crossin

The location off all Atmos cas lines. AT&T. Charter and TXU/Oncor electric underground

or the like, which are exposed by the construction operation

all power, guy wires or cable and/or light poles in the work area.

utilities and service lines. However, the owner assumes no responsibility for failure to show any

VTRACTOR shall be responsible for the protection of all existing utilities, service li

4. CONTRACTOR TO PLACE A 3/4" PLYWOOD FALSE BOTTOM IN ALL SANITARY SEWER MANHOLES BEFORE PAVING CONTRACTOR BEGINS

- 5. ANY CONNECTION TIE-IN TO AN EXISTING MANHOLE MUST BE CORED.
- 6. ALL CLEAN-OUTS TO BE PROVIDED PER MUNICIPAL REQUIREMENTS.
- 7. CONTRACTOR SHALL INSTALL GREEN EMS DISK ON PUBLIC SEWER LINES EVERY 500', CHANGE IN DIRECTION, MANHOLE, CLEAN OUT, AND SERVICE CONNECTION TO PUBLIC MAIN.
- 8. ALL MANHOLES TO BE RAVEN LINED OR APPROVED EQUAL.

#### PROJECT GENERAL NOTES

UTILITY NOTES

WATER LINE NOTE

at valves (both existing and proposed)

complete including connection to the main line.

municipal service center.

VASTEWATER LINE NOTES

final grades (no pay item)

rated lid.

Reasonable effort has been made to show the location and type of all known City of Rockwall

underground wet utilities and service lines. However, the City of Rockwall assumes no responsibility for failure to show any or all existing City of Rockwall underground wet utilities and service lines, or to show them in their exact location. The CONTRACTOR shall be

responsible for the protection of all existing utilities, service lines or the like, which are exposed

Bidders shall make any investigation of existing subsurface conditions as deemed necessary at no expense to the City of Rockwall. Neither the City of Rockwall nor the engineer will be

esponsible in any way for additional compensation for excavation work performed under this

CONTRACTOR shall be responsible for the protection of all existing service lines crossed

The CONTRACTOR shall excavate and field locate the horizontal and vertical location of

existing utility crossing locations utilizing provided project control. The CONTRACTOR shall immediately notify the engineer of any discrepancies identified between the CONTRACTORS

The CONTRACTOR shall abide by all applicable federal, state, and local laws governing

called by an engineer experienced in the design of trench sofety systems, registered in the state

of Texas. The CONTRACTOR shall submit completed trench safety plan to the engineer and City prior to commencing work. The CONTRACTOR shall be solely responsible for all aspects

excavation. The CONTRACTOR shall provide detailed plans and specifications for trench

field verified existing utility location and proposed location of utilities for the project.

The CONTRACTOR shall maintain existing water service at all times during construction.

Proposed water lines shall be AWWA C-900 PVC, DR 14 PC 305 (blue in color) unless

otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed

with minimum cover of 4 feet. Proposed water line embedment shall be NCTCOG Class B-3 as amended by the City of Rockwall's public works standards of design and construction manual.

CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwa

CONTRACTOR shall furnish and install gasket on water lines between all dissimilar metals a

All fire bydrants and valves removed and salvaged shall be returned to the City of Rock

Blue EMS pads shall be installed at every change in direction, valve and service tap on

CONTRACTOR to install new meter boxes and all fittings except for the meters per each se

Existing meter and meter boxes, and valve atom and covers not specifically called to be reloca-

The CONTRACTOR shall maintain existing wastewater service at all times during cons Proposed wastewater line embediness shall be NCTCOG Class 'B-2' as amended by the City of Rockwall's public works standard design and construction manual.

Green HMS pads shall be installed at every manhole, clean out and service lateral on proposes

All existing wastewater services shall be transferred from wastewater lines being abandoned t

services shall be paid per each, under the appropriate bid schedule item.

proposed wasteweter lines. Transferring wasteweter services shall include double clean outs at the property lines, caps, tees, wyes, plugs and connection. Payment for transferring wastewater

CONTRACTOR shall CCTV all existing westerwater lines that are to be abandoned to ensure

that all laterals are accounted for and transferred to proposed wastewater lines. (no separate pay)

Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match

shall be adjusted to match final grades (no pay item). Any meter in pavement shall have a tra

exposed by construction operations. Where existing service lines are cut, broken or damaged, the CONTRACTOR shall immediately replace the service tine with same type of origina

CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.

contract due to the CONTRACTOR's assumptions.

- 1. THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) MUST APPROVE ANY WORK TO BE DONE IN THE STATE HIGHWAY RIGHT-OF-WAY. AN APPLICATION AND APPROPRIATE PLANS MUST BE SUBMITTED DIRECTLY TO TXDOT FOR REVIEW AND APPROVED BY THE MUNICIPALITY WHERE THE WORK WILL BE PERFORMED.
- 2. THE LOCATION OF UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES. IF THE EXISTING UNDERGROUND UTILITIES ARE DAMAGED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING THE UTILITY. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL EXISTING/PROPOSED UTILITIES TO FINISHED GRADE.
- 3. WHERE EXISTING UTILITIES, SERVICE LINES OR IRRIGATION LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES, SERVICE LINES OR IRRIGATION LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENTS.
- 4. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, "CONST. SAFETY AND HEALTH REGULATIONS." VOL. 29, SUBPART P. PG. 128-137, AND ANY AMENDMENTS THERETO. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A TRENCH SAFETY PLAN FOR THIS PROJECT.
- 5. THE CONTRACTOR SHALL RESTORE ALL AREAS, ONSITE AND OFFSITE, DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO: TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE SWALES, STAGING AREAS, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS. UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE DRAWINGS, RESTORATION SHALL INCLUDE HYDROMULCHING ALL DISTURBED AREAS WITH A SLOPE OF LESS THAN 20% (1:5) AND SODDING AREAS WITH A SLOPE OF 20% (1:5) OR GREATER. ESTABLISHMENT OF GRASS THROUGH PROPER WATERING IS LEFT UP TO THE CONTRACT'S MEANS AND METHODS, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE/IRRIGATION DRAWINGS. 75% TO 80% OF ALL DISTURBED AREAS TO HAVE A MINIMUM 1" STAND OF ANNUAL GRASS (NO WINTER RYE OR WEEDS) PRIOR TO MUNICIPAL ACCEPTANCE.
- 6. THE CONTRACTOR SHALL KEEP RECORDS FOR AS-BUILTS DRAWINGS AND SHALL SUBMIT MARK-UPS TO THE MUNICIPALITY INSPECTOR AND DESIGN ENGINEER PRIOR TO SCHEDULING A FINAL WALK THROUGH INSPECTION.
- 7. PRIOR TO CONSTRUCTION, A PRE—CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES FROM ALL CONTRACTORS, THE ENGINEER, AND THE MUNICIPALITY.
- 8. ALL CONSTRUCTION MUST ADHERE TO THE TREE PRESERVATION REQUIREMENTS OF THE MUNICIPALITY.
- 9. THE DETENTION SYSTEM IS TO BE FULLY INSTALLED (INCLUDING EROSION CONTROL ON SIDES AND BOTTOM) ALONG WITH THE ASSOCIATED STORM SEWER AND OUTFLOW STRUCTURES, PRIOR TO THE START OF ANY PAVING OPERATIONS.
- 10. THE CONTRACTOR, AND HIS AGENTS, AND SUB-CONTRACTOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, ENGINEER AND THEIR AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTAL AND VERTICALLY. DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED, IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN THE SWPPP IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT TCEQ AND NPDES GENERAL PERMIT AS DESCRIBED IN THE FEDERAL REGISTER, PAGES 36489 THROUGH 36519.
- 12. THE DETENTION SYSTEM IS TO BE FULLY INSTALLED (INCLUDING EROSION CONTROL ON SIDES AND BOTTOM) ALONG WITH THE ASSOCIATED STORM SEWER AND OUTFLOW STRUCTURES, PRIOR TO THE START OF ANY PAVING OPERATIONS.

DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

in the plans. Proposed concrete payement shall be constructed with longit

resulting from such fill and he shall remove the material at his own cost.

Type D (Surface) on top of 6" flex base (if not specified in the plans)

All curb and gutter shall be integral (monolithic) with the pavement.

material shall be used at these locations (no pay item).

included in the appropriate item in the bid schedule.

joints at all connections to existing concrete pavement.

2.3 in the Standards of Design and Construction.

No sand shall be allowed under any paving.

1.25 lbs per 1.0 lb coment reduction.

laboratory approved by the City.

DRAINAGE / STORM SEWER NOTES

7.0 sack), air entrained, unless noted otherwise.

butt joint constructed.

safety systems that comply with applicable laws governing excavation. These plans shall be 1. All paving readway sections thickness, strength, reinforcement, joint type, joint spacing and

CONTRACTOR shall remove and properly dispose of all existing concrete and HMA(
pavement outside of the City limits as required for construction of the project. All cost shall be

ayments for removal and replacement of street, driveway and sidewalk pavement shall be base

on plan quantity and no adjustments will be made unless approved in writing by the Ci

All pavements to be removed and replaced shall be saw out to full depth along neat lines show

The CONTRACTOR shall remove from the project area all surplus material. This work shall be

incidental and not a separate pay item. Surplus materials from excavation include dirt, trasl rock measuring greater than 6" in the largest dimension, etc. Shall be properly disposed of at

shall be deposited in low areas or along natural drainage ways without written permission fro the affected property owner and the City of Rockwall. If the CONTRACTOR places exce

All excavation on the project is unclassified. If soil borings were conducted they are provided

subgrade treatment shall match the typical sections and details called out in the plans. If not called out on the plans all concrete paving shall conform to the manual requirements of tab

Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar last

shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 fee

1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudin.

All proposed HMAC street pavement shall consist of 4 inches of Type B (Bese) with 2 inches

Concrete mix design shall be submitted to the City for review and approval prior to placemen

reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall

All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maxima loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent

All proposed sidewalks shall include barrier free ramps at intersecting streets, alloys, etc. Barrier

free ramps shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).

Sidewalks shall be doweled into pavement where it abuts curbs and driveways. Expansion jo.

All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearan

and all cost shall be included in the appropriate items of the bid schedule.

There shall be no separate payment for subgrade preparation under driveway and sidewalk a

Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the

The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water

All structural concrete shall be Class "C" (4200 psi compressive strength at 28 days minimum

Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of

Rockwall's Public Works, Engineering Division Standards of Design and Construction Mai

All storm pipe shall be reinforced concrete pipe (RCP), Class III, unless otherwise noted.

or removed unless explicitly stated in the plans or written approval is given by the City.

in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked

All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. Concrete saw cuts for all driveways and sidewalks shall be subsidiary to the appropriate bid item for driveway and sidewalk replacement

Fly ash may be used in concrete pavement locations provided that the maximum cement

asterials in these areas without written permission, he will be responsible for all damage

site acceptable to the City of Rockwall if within the City limits. No excess excavated may

# **AS-BUILT** RECORD DRAWING

THE INFORMATION ON THESE PLANS HAS BEEN REVISED TO REFLECT CHANGES TO PUBLIC IMPROVEMENTS MADE DURING CONSTRUCTION. UNLESS OTHERWISE NOTED, THE CONSTRUCTION OF CONSTRUCTION. UNLESS OTHERWISE NOTED, THE CONSTRUCTION.

THE PUBLIC IMPROVEMENTS IS IN GENERAL CONFORMANCE WITH
THESE PLANS, BASED UPON INFORMATION PROVIDED BY THE OF TEX
CONTRACTOR AND FIELD VERIFICATIONS. THE RESPONSIBILITY FOR
ACCURACY AND COMPLETENESS BELONGS TO THE CONTRACTOR.

**MCADAMS** 

O

17193

MATTHEW G. ST. MARII 110326

**TBPE: 19762** 

**OWNER/DEVELOPER** SWBC BUILDERS 5949 SHERRY LANE #750 DALLAS, TX 75225

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