SITE DEVELOPMENT PLANS **COURTIN DENTAL OFFI** ROCKWALL, TEXAS 75032

CITY OF ROCKWALL

MAYOR JIM PRUITT

COUNCIL MEMBERS

BENNIE DANIELS JOHN HOHENSHELT **KEVIN FOWLER TRACE JOHANNESEN** DANA MACALIK ANNA CAMPBELL

> CITY MANAGER **RICK CROWLEY**

DIRECTOR OF PLANNING RYAN MILLER, AICP



NOT TO SCALE

UTILITY & GOVERNING AGENCIES CONTACTS

OWNER

MARY COURTIN 991 INTERSTATE 30 SUITE 103 ROCKWALL, TX 75087 EMAIL: MARYCOURTIN@YAHOO.COM

FIRE DEPARTMENT

CITY OF ROCKWALL FIRE DEPARTMENT 305 EAST BOYDSTUN ROCKWALL, TEXAS 75087 PH: (972) 771-7770 FAX: (972) 771-7772 CONTACT: ARIANA KISTNER ASST. CHIEF, FIRE MARSHAL

CIVIL ENGINEER

KSA 6781 OAK HILL BLVD. TYLER, TEXAS 75703 PH: (903) 581-8141 EXT. 1322 CONTACT: DARREL KOTZUR, P.E EMAIL: DKOTZUR@KSAENG.COM

CITY OF ROCKWALL ENGINEERING DEPARTMENT (WATER, SEWER & INSPECTION)

385 S. GOLIAD STREET ROCKWALL, TEXAS 75087 PH: (972) 771-7746 FAX: (972) 771-7748 CONTACT: SARAH JOHNSTON, P.E. SURVEYOR

CBG SURVEYING TEXAS, LLC 12025 SHILOH RD. SUITE 240 DALLAS, TX 75228 PH: (214) 349-9485 CONTACT: JOSH CONNALLY, RPLS **GEOTECHNICAL ENGINEER**

ON TIME GEOTECHNICAL P.O. BOX 4836 LAGO VISTA, TX 78645 PH: (830) 832-3691 CONTACT: JORDAN M. REY, MSCE, PE EMAIL: DRILL@ONTIMEGEO.COM



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7 AL AS-BUIL	PROJECT ADDRESS: 10 E. RALPH HALL PKWY. ROCKWALL, TX 75032	DARREL KOTZUR B B B B B B B B B B B B B B B B B B B

RESPONSIBILITY NOTE

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

SEAL: TBPE Firm Registration No. F-1356

C1.0

HEET NO.



)	1/2 INCH IRON ROD FOUND WITH YELLOW PLASTIC CAP
	STAMPED "CBG SURVEYING"
М	CONTROLLING MONUMENT
'OL	VOLUME
G	PAGE
.O.W.	RIGHT-OF-WAY
Q.FT.	SQUARE FEET
NST. NO.	INSTRUMENT NUMBER
AN. SEW.	SANITARY SEWER
SMT.	EASEMENT
PPROX.	APPROXIMATE
P.R.R.C.T.	OFFICIAL PUBLIC RECORDS, ROCKWALL COUNTY, TEXAS
.R.R.C.T.	PLAT RECORDS, ROCKWALL COUNTY, TEXAS
.R.R.C.T.	DEED RECORDS, ROCKWALL COUNTY, TEXAS

OWNER'S DEDICATION

STATE OF TEXAS COUNTY OF ROCKWALL

Whereas BLPB Property Group, LLC, BEING THE OWNER OF A TRACT OF LAND in the County of Rockwall, State of Texas, said tract being described as follows:

BEING a tract of land situated in the John D. McFarland Survey, Abstract No. 145, City of Rockwall, Rockwall County, Texas, same being a portion of Lot 9, Block A, Replat Flagstone Corners, an addition to the City of Rockwall, Rockwall County, Texas, according to the Map thereof recorded in Cab. H, Slide 285, Plat Records, Rockwall County, Texas, same being that tract of land conveyed to said BLPB Property Group, LLC, by Special Warranty Deed with Vendor's Lien, recorded in Instrument No. 20180000018702, Official Public Records, Rockwall County, Texas, and being more particularly described as follows:

BEGINNING at a 1/2 inch iron rod found for corner, being the West corner of Lot 8, of said Replat Flagstone Corners, and being in the Southeast Right-of-Way line of Ralph Hall Parkway (a variable width Right-of-Way)

THENCE South 45 degrees 53 minutes 55 seconds East, along the Southwest line of said Lot 8, a distance of 416.35 feet to a 1/2 inch iron rod found for corner, being the North corner of Lot 1, Block A, Rockwall School of Music Addition, an addition to the City of Rockwall, Rockwall County, Texas, according to the Map thereof recorded in Instrument No. 20180000011461, Official Public Records, Rockwall County, Texas;

THENCE South 43 degrees 55 minutes 38 seconds West, along the Northwest line of said Lot 1, a distance of 182.38 feet to a 1/2 inch iron rod found for corner, being the West corner of said Lot 1, and being in the Northeast Right-of-Way line of Mims Road (a 65 foot Right-of-Way);

THENCE North 45 degrees 54 minutes 47 seconds West, along the Northeast Right-of-Way line of said Mims Road, passing a 1/2 inch iron rod found for reference at a distance of 401.66 feet, and continuing a total distance of 406.68 feet to a light pole for corner, being at the intersection of the Northeast Right-of-Way line of said Mims Road, and the Southeast Right-of-Way line of said Ralph Hall Parkway;

THENCE 00 degrees 55 minutes 26 seconds West, a distance of 14.13 feet to a 1/2 inch iron rod found for corner;

THENCE North 44 degrees 01 minutes 31 seconds East, along the Southeast Right—of—Way line of said Ralph Hall Parkway, a distance of 172.49 feet to the POINT OF BEGINNING, and containing 75,932 square feet or 1.743 acres of land.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS COUNTY OF ROCKWALL

We the undersigned owner(s) of the land shown on this plat, and designated herein as the LOT 9A, BLOCK A, BLPB-MIMS ADDITION, an addition to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. We further certify that all other parties who have a mortgage or lien interest in the LOT 9A, BLOCK A, BLPB-MIMS ADDITION, have been notified and signed this plat.

I understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same. I (we) also understand the following;

1. No buildings shall be constructed or placed upon, over, or across the utility easements as described herein.

2. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips; and any public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maintaining, and either adding to or removing all or part of their respective system without the necessity of, at any time, procuring the permission of anyone.

3. The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.

4. The developer and subdivision engineer shall bear total responsibility for storm drain improvements.

5. The developer shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development.

6. No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm structures, storm sewers, and alleys, all according to the specifications of the City of Rockwall; or

Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay for the same out of the escrow deposit, should the developer and/or owner fail or refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done; or

Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which time shall be fixed by the city council of the City of Rockwall.

We further acknowledge that the dedications and/or exaction's made herein are proportional to the impact of the Subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City; We, our successors and assigns hereby waive any claim, damage, or cause of action that We may have as a result of the dedication of exactions made herein.

BLPB Property Group, LLC (Owner) a Texas limited liability company

By:_____ Dr. Mary Courtin, Manager

STATE OF TEXAS COUNTY OF ROCKWALL

Before me, the undersigned authority, on this day personally appeared Dr. Mary Courtin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated.

Given upon my hand and seal of office this _____day of_____, 2021.

By:____

printed name:

Notary Public in and for the State of Texas

NOTE: It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building within such plat shall be approved, authorized or permit therefore issued, nor shall such approval constitute any representation, assurance by the City of the adequacy and availability for water for personal use and fire protection within such plat, as required under Ordinance 83-54.

SURVEYOR'S CERTIFICATE:

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT I, Bryan Connally, a Registered Professional Land Surveyor, licensed by the State of Texas, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.

Dated this the_____ day of _____, 2021. RELEASED FOR REVIEW 02/11/2021 PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSES AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.

Bryan Connally Texas Registered Professional Land Surveyor No. 5513

RECOMMENDED FOR FINAL APPROVAL
Planning and Zoning Commission Date
APPROVED
I hereby certify that the above and foregoing plat of an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the day of, 2021.
This approval shall be invalid unless the approved plat for such addition is recorded in the office of the County Clerk of Rockwall County, Texas within one hundred eighty (180) days from said date of final approval.
WITNESS OUR HANDS, this day of, 2021.
Mayor, City of Rockwall
City Secretary
City Engineer

SHEET 2 OF 2



OWNER: BLPB PROPERTY GROUP, LLC 991 E. I-30, STE. 103 ROCKWALL, ROCKWALL COUNTY, TEXAS 75032

CASE NO. ___



Elevation=549.08

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

PROJECT INFORMATION Date of Survey: 03/28/2019 Job Number: 1920217 Drawn By: W.J.J. G.F. No.: (Not Provided) Contact: Ms. Katlin Fox, E.I.T. File: 1990217 Topo.Dwg SHEET 1 OF 1

PREPARED FOR:

CROSSPOIT ENGINEERING

2971 Elkon Trail

Tyler, Texas 75703

(203) 705-4419

903 N. Bowser Road, Suite 240 Richardson, Texas 75081 (972) 424-7002 Voice (972) 633-1702 Fax WWW.SurveyConsultantsInc.Com Survey Consultants, Inc. WWW.SurveyConsultantsInc TBPLS Firm No. 10139600

GENERAL ITEMS

- 1. All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "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 Rockwall's "Standards of Design and Construction" manual on the project site at all times
- Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.
- 3. The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: <u>http://www.rockwall.com/engr.asp</u>
- 4. All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.
- 5. Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.
- 6. The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".
- 7. All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
- 8. All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.
- 9. The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.
- 10. A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

EROSION CONTROL & VEGETATION

- 1. The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection 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 pay all associated fees
- 2. Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
- 3. All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.
- 4. If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the 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 applicable.
- 5. All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.
- 6. 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.
- 7. CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.
- 8. CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.
- 9. All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.
- 10. All adjacent streets/alleys shall be kept clean at all times
- 11. CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.
- 12. Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not meet. Work may commence after deficiency has been rectified.
- 13. During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.
- 14. Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be

washing shah be allowed only after seamlent is removed in this manner.	1. The
15. All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be	2. Prop
immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of	pipel
cleaning.	show
16. During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge	feet f
into a receiving outlet.	3. Prop
TRAFFIC CONTROL	engir
1 All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval	4. CON
a minimum of 21 calendar days prior to planned day of implementation.	date
2. When the normal function of the roadway is suspended through closure of any portion of the right-of-way,	CON
temporary construction work zone traffic control devices shall be installed to effectively guide the motoring	Wate
public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow	is re-
is an integral element of every traffic control zone.	as an
3. All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with	5. CON
the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur	(both
on roadways without an approval from the Rockwall Engineering Department and an approved traffic control	6. All f
designated representative	Serv
4 All traffic control plans must be prepared signed and sealed by an individual that is licensed as a professional	7. Blue
engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted	
for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.	$\begin{bmatrix} 0. & All \\ 0 & \Delta 1l \\ f \end{bmatrix}$
5. The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks	10 Abar
prior to any the closures in writing and verbally.	lines
6. Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated	in pla
representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a	11. All f
verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all	to pa
construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.	12. All jo
7. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed.	13. Wate
when work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer engraprists shall be removed or several. The first violation of this provision will	14. CON
result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all	15. All d
work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be	insta
charged one working day for each 24 hour closure.	WASTE
8. Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am	$\frac{\mathbf{W}\mathbf{ASTE}}{1$ The
and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during	2. Wast
peak hours of 7:00 am – 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual	and
start-finish times of the actual school with approval by the City Engineer. The first violation of this provision	PVC
will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of	will 1
all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be	3. Prop
charged one working day for each 24 hour closure of a roadway whether they are working or not.	publi
9. No traffic signs shall be taken down without permission from the City.	
10 No street/roadway will be allowed to be fully closed	4. Gree
10. No street/roadway will be allowed to be fully closed.	4. Gree wast
10. No street/roadway will be allowed to be fully closed. <u>UTILITY LINE LOCATES</u>	4. Gree wast 5. CON
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removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement

WATER LINE NOTES

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

roposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for ipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise nown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 set for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.

roposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's ngineering standards of design and construction manual.

CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the ate of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Vater shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR s required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well s any costs incurred when the loss of fire protection to a structure occurs.

ONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves both existing and proposed).

Il fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal ervice Center.

Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed vater line and every 250'.

All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.

Il fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.

bandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned ne shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned n place shall have any extensions and the valve box removed and shall be capped in concrete.

Il fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited parking spaces and landscaping.

Il joints are to be megalug joints with thrust blocking.

ater and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.

CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.

Il domestic and irrigation services are required to have a testable backflow device with a double check valve stalled per the City of Rockwall regulations at the property line and shown on plans.

TEWATER LINE NOTES

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

Vastewater line for 4-inch through 15-inch shall be Green PVC – SDR 35 (ASTM D3034) [less 10 ft cover] nd SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and lager wastewater line shall be Green VC – PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services vill be allowed on a sanitary sewer line deeper than 10 feet.

roposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's ablic works standard design and construction manual.

Freen EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed vastewater lines.

CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals re accounted for and transferred to proposed wastewater lines prior to abandonment.

Il abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the bandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.

existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades. Il wastewater pipes and public services shall be inspected by photographic means (television and DVD) rior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the ipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the ONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth 20th) month of the maintenance period.

Il manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform the measures called out in standard detail R-5031.

Il new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy bating, ConShield, or approved equal. Consheild must have terracotta color dye mixed in the precast and ast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab anhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.

Il new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim nd cover to prevent inflow.

an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump an shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval for to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise rdinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than business days for review and response by the City.

ONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.

GENERAL CONSTRUCTION NOTES Sheet 1 of 2 October 2020

CITY OF ROCKWALL ENGINEERING DEPARTMENT

385 S. Goliad Rockwall, Texas 75087 P (972) 771-7746 F (972) 771-7748

DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

- 1. All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.
- 2. Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.
- 3. All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.
- 4. No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

PAVING AND GRADING

- 1. All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.
- 2. All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Street/Devement Type	Minimum	Streng th 28-	Minimum (sacks /	Cement (CY)	Steel R	einforcement
Succiravement Type	(inches)	Day (psi)	Machine placed	Hand Placed	Bar #	Spacing (O.C.E.W.)
Arterial	10"	3,600	6.0	6.5	#4 bars	18"
Collector	8"	3,600	6.0	6.5	#4 bars	18"
Residential	6"	3,600	6.0	6.5	#3 bars	24"
Alley	7"-5"-7"	3,600	6.0	6.5	#3 bars	24"
Fire Lane	6"	3,600	6.0	6.5	#3 bars	24"
Driveways	6"	3,600	6.0	6.5	#3 bars	24"
Barrier Free Ramps	6"	3,600	N/A	6.5	#3 bars	24"
Sidewalks	4"	3,000	N/A	5.5	#3 bars	24"
Parking Lot/Drive Aisles	5"	3,000	5.0	5.5	#3 bars	24"
Dumpster Pads	7"	3,600	6.0	6.5	#3 bars	24"

- Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 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 longitudinal butt joint constructed.
- 4. No sand shall be allowed under any paving.
- 5. All concrete mix design shall be submitted to the City for review and approval prior to placement.
- 6. Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.
- 7. All curb and gutter shall be integral (monolithic) with the pavement.
- 8. All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.
- 9. All concrete compression tests and soil compaction/density tests are required to be submitted to the City's Engineering Inspector immediately upon results.
- 10. All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).
- All public sidewalks shall be doweled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.
 All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt
 All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt
- 12. All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)
- 13. Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.
- 14. All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.
- 15. Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.
- 16. All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.
- 17. CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.
- 18. CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.
- 19. CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

DRAINAGE / STORM SEWER NOTES

- 1. The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.
- 2. All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.
- 3. Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.
- 4. All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.
- 5. All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.
- 6. All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.
- 7. All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.
- 8. All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.

RETAINING WALLS

- 1. All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department
- 2. All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.
- 3. All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.
- 4. All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.
- 5. No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

FINAL ACCEPTANCE AND RECORD DRWINGS/AS-BUILTS

- 1. Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.
- 2. After improvements have been constructed, the developer shall be responsible for providing to the City "As Built" or "Record Drawings". The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.
- 3. Submit 1-set of printed drawings of the "Record Drawings" containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the "Record Drawing" digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.
- 4. Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as "Record Drawings" or "As Built Drawings" on all sheets.
- 5. The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer's surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like or similar disclaimer verbiage will not be accepted by the City of Rockwall.

GENERAL CONSTRUCTION NOTES Sheet 2 of 2 October 2020

CITY OF ROCKWALL ENGINEERING DEPARTMENT

385 S. Goliad Rockwall, Texas 75087 P (972) 771-7746 F (972) 771-7748

CONCRETE PAVEMENT

LOT 8 BLOCK A 251,484.3 SQFT 5.77 ACRES

CONCRETE PAVEMENT 24" RCP TW=550.33 TW=550.25 STMH O 2 BW=549.13 _____BW=548.10 BW=549.50 FG=549.87 APPROX. LOCATION OF -EX=548.50± 5.0' X 15.0' WATER LINE ESMT. BRICK RETAINING PRESCHOO PLAYGROUN W=550.55 TP=550.70 REMAINDER O OT 9 BLOCK A (REPLAT OF) FLAGSTONE CORNERS (ALTEAT OF TAXABLE CONTROLLATION (CABINET H, PC. 286, P.R.R.C.T.) 75,932 SQFT 1.74 ACRES PROPOSED DAY CARE 10,841 SF TP=551.16 F.F.E. = 550.65 FFE=550.65 K-D | - \mathcal{V} SW=550.55 *SW=550.55* SW=550.48 + DIN G SETBACK ______ _____ _ _ _ _ _ _ _ - — — - <u>'</u> · __ __ __ · SW=551.06 2.00% -SW=551.98 SW=551.52 SW=553.00 SW=551.48 TP=552.79±-/ TP=552.54±→ TP=551.44± MIMS ROAD (M4U:_65' ROW) CONCRETE PAVEMEN

EXISTING 8" WATER LINE

TRANSFORMER

TO THE BEST OF OUR KNOWLEDGE, KSA, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

		Form 3.1: Drainage Area Calculations Table													
	Runoff	C*A	Тс	Design Storm	Intensity	Storm Runoff	Drains To / Remarks								
	coen.			Frequency	I	Q									
	С		min	yrs	in/hr	cfs									
	0.35	0.10	20.00			0.82	Drains north to existing curb inlet within Rock Ridge Assisted Living								
	0.35	0.02	20.00	100	8.30	8.30	8.30	8 30	0.14	Drains west to E. Ralph Hall Pkwy. ROW					
	0.35	0.46	20.00	100				3.79	Drains to existing drop inlet at northeast corner of site						
	0.35	0.04	20.00			0.31	Drains to southeast corner of site, to Mims Rd. ROW								
	0.35					5.06									
າຍ	City of Rock	wall Standar	rds of Desi	an & Construct	ion										

				Forr	n 3.1: Drai	ange Area	a Calcula	tions Table		
a ID	Drainage	Runoff	C*A	Тс	Design Storm Intens	Intensity	Storm Runoff	Drains To / Remarks		
	Ποα	coen.			Frequency	I	Q			
	acres	С		min	yrs	in/hr	cfs			
^ -1	0.14	0.90	0.13	10.00			1.28	North to existing curb inlet within Rock Ridge Assisted Living		
?-2	0.29	0.90	0.26	10.00					2.52	North to proposed curb inlet C-2
°-3	0.13	0.90	0.12	10.00			1.14	East to proposed curb inlet C-3		
°-4	0.62	0.90	0.56	10.00			5.48	Northeast to proposed curb inlet C-1		
°₋5	0.10	0.90	0.09	10.00			0.93	Southoost to Mima Dd. DOW/		
°-6	0.10	0.90	0.09	10.00	100	9.80	0.90	Southeast to Minnis Rd. ROW		
P-7	0.08	0.90	0.07	10.00			0.68	Roof drains connect to proposed storm sewer pipe; discharges to existing drop inlet at northeast corner of site		
°-8	0.20	0.90	0.18	10.00			1.76	Two (2) playground drains connect to proposed storm sewer pipe		
P-9	0.08	0.90	0.07	10.00			0.69	Roof drains connect to proposed storm sewer pipe; discharges to existing drop inlet at northeast corner of site		
otal	1.74	0.90					15.37			
ulation	ns based on	the City of	Rockwall Stand	lards of Desi	an & Constru	ction				

						/															\backslash
.3: Storm Sewer Calculations Table													Ι								
ed	Upstream	Design	Intensity	Runoff	Conduit	Partial	Velocity	Time in	Slope	Friction						Coeff.	Headloss	Destau	Top of	HGL	
	Тс	Storm Freq.	I	Q	Qc	Flow	v	Conduit	Sf	Headloss	U/S	D/S	V1 ^ 2 / 2g	2g	Jct. Type	Kj	н	Design HGL	Curb Elev.	Depth Below T/C	Remar
	(min)	(yr)	(in/hr)	(cfs)	(cfs)	(Yes/No)	(ft/s)	(min)	(ft/ft)	(ft)			(1	ft)			(ft)			(ft)	
	1.37			2.52	7.02	Yes	2.06	1.37	0.0004	0.073	543.60	543.53	-	0.07	Curb Inlet	1.25	0.08	547.37	552.30	4.93	-
	0.61			1.14	4.96	Yes	0.93	0.61	0.0002	0.007	545.11	545.10	-	0.01	Curb Inlet	1.25	0.02	545.29	550.70	5.41	-
	1.68			10.06	11.41	Yes	5.69	0.31	0.0011	0.112	542.00	541.89	0.07	0.50	Curb Inlet	1.25	0.63	543.53	549.85	6.32	-
	1.65			1.79	3.96	Yes	2.29	1.65	0.0006	0.126	544.94	544.81	-	0.08	DS	0.25	0.02	546.14	550.60	4.46	-
	0.19			0.90	2.38	Yes	1.66	0.19	0.0005	0.009	546.15	546.14	-	0.04	"Ү" Туре	1.25	0.05	545.45	549.50	4.05	-
	3.34	100	9 80	0.68	4.25	Yes	0.86	1.70	0.0002	0.019	543.77	543.75	-	0.01	DS	0.25	0.00	544.81	550.60	5.79	-
	1.71	100	5.00	10.81	24.57	Yes	3.44	0.03	0.0005	0.003	541.86	541.86	0.50	0.18	Jct. Box	0.25	0.05	541.89	548.50	6.61	-
	1.10			0.20	1.35	Yes	0.58	0.54	0.0002	0.004	543.45	543.45	0.02	0.01	Catch Basin	1.25	0.01	543.66	549.55	5.89	-
	0.55			0.41	1.35	Yes	1.17	0.27	0.0004	0.007	543.26	543.25	0.05	0.02	Catch Basin	1.25	0.03	543.48	549.55	6.07	-
	0.28			0.61	1.51	Yes	1.75	0.18	0.0006	0.011	543.01	543.00	0.08	0.05	Catch Basin	1.25	0.06	543.31	549.55	6.24	-
	0.10			0.81	1.36	Yes	2.33	0.10	0.0007	0.010	542.86	542.85	-	0.08	Catch Basin	1.25	0.11	543.11	549.55	6.44	-
	1.81			14.10	24.57	Yes	4.49	0.10	0.0007	0.019	543.52	543.50	0.18	0.31	Jct. Box	0.25	0.08	541.86	548.75	6.89	-

					Estimated Daily
			Daily Wastewater		Wastewater
uture Use	Assumptions	Quantity	Flow (gallons/**)	**	Generated (gpd)
s (Elementary)	10,841 sf Daycare, 116 students > 36 months old	116	30	per student	3,480
ercial	4059 sf Office, 7 employees	0.5	800	per acre	400
		Esti	mated Generated Wast	ewater (gpd)	3,880
			Infow ar	nd Infiltration	400
			Peak Facto	r (<0.05 MGD)	5
		ewater (gpd)	21,400		
Container Flam	based on City of Declaurell Toyas Standards of Dec	in and Ca	naturation Continu 52	E. Cining March	wester Collection Main

C9.1

PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

•	1	ı	ı	1	DATE			
			-	ı	REVISION			WING PATH/NAME LAYOUT PLOT DATE - TIME
5	4	ю	2	-	MAR			DRAV
					ROCKWALL TEXAS 75032			SHEET NAME:
								PROJECT NAME:
DRAWN BY:	TG			DK	ATEST REVISION:	07/20/2021	KSA JOB NO.:	18-1620-01
						Tyler, Texas 75703	T. 903-581-8141 F. 888-224-9418 www.ksaeng.com	,
SE			DARI	O REL 839 CEI OVA	F 7 KOTZ 47 VSE	CUR O2/	22/20) 222
SHI	EET	NO	C	.stra		<u>1</u> NO. F	-135	U

TO THE BEST OF OUR KNOWLEDGE, KSA, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

6.8 THIS DESIGN IS ONLY VALID FOR THE PROPOSED SEGMENTAL RETAINING WALL DETAILED AT THIS LOCATION AS PER THESE PLANS. THESE PLANS ARE NOT TRANSFERABLE TO ANY OTHER PROJECT. 6.9 DIFFERENTIAL SETTLEMENT, TOTAL SETTLEMENT AND CONSOLIDATION OF SUBGRADE MATERIALS SHALL BE THE RESPONSIBILITY OF THE OWNER'S GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE. CROSSPOINT ENGINEERING ACCEPTS NO LIABILITY FOR THE EVALUATION OF SETTLEMENTS. 6.10 EVALUATION AND MITIGATION OF POTENTIAL EROSION, SCOUR AND HYDRAULIC EFFECTS OF WATER FLOWING IN ANY PROJECT AREAS IS THE RESPONSIBILITY OF THE OWNER'S REPRESENTATIVE. 6.11 STRUCTURAL DESIGN HEREIN REPRESENTS A FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL INTERIM BRACING, SHORING, INTERIM DRAINAGE PROVISIONS AND EROSION PROTECTION REQUIRED UNTIL FINAL CAPPING, PAVING, CURBING AND COMPLETION OF FINAL

STORM DRAIN SYSTEM IS COMPLETE.

LEVELING PAD NOTES:

1. THE LEVELING PAD SHALL BE CONSTRUCTED OF 2,000 PSI CONCRETE OR CRUSHED STONE. CENTER BLOCKS ON LEVELING PAD.

2. THE BASE FOUNDATION SHALL BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

CELTIK PRO UNIT EXCAVATION LIMITS-6" MIN UNREINFORCED CONCRETE

OR CRUSHED STONE LEVELING PAD \rightarrow

BASE/ LEVELING PAD ISOMETRIC SCALE: N.T.S.

- CELTIK PRO CAPSTONE CELTIK PRO -CAPSTONE FIELDCUT WITH 45° MITER CUT - CELTIC PRO CORNER UNIT STEPS WITH MITER CUT - CELTIK PRO CAPSTONE CELTIK PRO UNIT 🛩 STEPS WITHOUT CORNER BLOCK CAPSTONE ISOMETRIC DETAIL

NOTES:

- 1. THE DRAINAGE SYSTEM SHALL CONSIST OF A 4" DIAMETER PERFORATED PVC PIPE WRAPPED WITH A GEOTEXTILE FABRIC.
- 2. PROVIDE RODENT SCREENS IN 4" DIAMETER NON-PERFORATED PIPE DAYLIGHTING THROUGH WALL.
- 3. SEE CONTRACT PLANS FOR ADDITIONAL REQUIREMENTS AND DETAILS.

DRAINAGE OUTLET THRU WALL FACE SCALE: N.T.S.

SECTION 32 9300 - LANDSCAPE

PART 1 - GENERAL

- 1.1 QUALIFICATIONS OF THE LANDSCAPE CONTRACTOR. A. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING
- 1.2 REFERENCE DOCUMENTS A. REFER TO LANDSCAPE PLANS, NOTES, SCHEDULES AND DETAILS FOR ADDITIONAL REQUIREMENTS
- 1.3 SCOPE OF WORK / DESCRIPTION OF WORK A. WORK COVERED BY THESE SECTIONS INCLUDES: FURNISH ALL SUPERVISIONS. LABOR. MATERIALS. SERVICES. EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE WORK COVERED IN
 - CONJUNCTION WITH THE LANDSCAPING COVERED IN LANDSCAPE PLANS AND SPECIFICATIONS INCLUDING:
 - 1. PLANTING (TREES, SHRUBS, GRASSES)
 - BED PREP AND FERTILIZATION 1 3. NOTIFICATION OF SOURCES
 - WATER AND MAINTENANCE UNTIL ACCEPTANCE
- 5. GUARANTEE B. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
- C. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK
- 1.4 REFERENCES A. AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN; 27 OCTOBER 1980, EDITION; BY AMERICAN NATIONAL STANDARDS INSTUTUTE (Z60.1) - PLANT MATERIAL B. AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE; 1942
- EDITION OF STANDARDIZED PLANT NAMES. C. TEXAS ASSOCIATION OF NURSERYMEN, GRADES AND STANDARDS
- 1.5 SUBMITTALS
- A. PROVIDE REPRESENTATIVE QUANTITIES OF EACH SOIL, MULCH, BED MIX, GRAVEL AND STONE BEFORE INSTALLATION. SAMPLES TO BE APPROVED BY OWNER'S REPRESENTATIVE BEFORE USE. B. SOIL AMENDMENTS AND FERTILIZERS SHOULD BE RESEARCHED AND BASED
- ON THE SOILS IN THE AREA. C. BEFORE INSTALLATION, SUBMIT DOCUMENTATION THAT PLANT MATERIALS
- ARE AVAILABLE AND HAVE BEEN RESERVED. FOR ANY PLANT MATERIAL NOT AVAILABLE, SUBMIT REQUEST FOR SUBSTITUTION.
- 1.6 JOB CONDITIONS, DELIVERY, STORAGE AND HANDLING A. GENERAL CONTRACTOR TO COMPLETE WORK BEFORE LANDSCAPE CONTRACTOR TO COMMENCE.
- B. ALL PLANTING BED AREAS SHALL BE LEFT THREE INCHES BELOW FINAL GRADE OF SIDEWALKS, DRIVES AND CURBS. ALL AREAS TO RECEIVE SOLID SOD SHALL BE LEFT ONE INCH BELOW THE FINAL GRADE OF WALKS, DRIVES AND CURBS. CONSTRUCTION DEBRIS SHALL BE REMOVED PRIOR TO
- LANDSCAPE CONTRACTOR BEGINNING WORK C. STORAGE OF MATERIALS AND EQUIPMENT AT THE JOB SITE WILL BE AT THE RISK OF THE LANDSCAPE CONTRACTOR. THE OWNER CANNOT BE HELD RESPONSIBLE FOR THEFT OR DAMAGE.
- 1.7 SEQUENCING
- A. INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWN/SOLID SOD. B. WHERE EXISTING TURE AREAS ARE BEING CONVERTED TO PLANTING BEDS.
- THE TURF SHALL BE CHEMICALLY ERADICATED TO MINIMIZE RE-GROWTH IN THE FUTURE. AREAS SHALL BE PROPERLY PREPARED WITH AMENDED ORGANIC MATTER 1.8 MAINTENANCE AND GUARANTEE
- MAINTENANCE:
- A. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK FROM THE TIME OF PLANTING UNTIL FINAL ACCEPTANCE BY OWNER
- B. NO TREES, GRASS, GROUNDCOVER OR GRASS WILL BE ACCEPTED UNLESS THEY SHOW HEALTHY GROWTH AND SATISFACTORY FOLIAGE CONDITIONS.
- C. MAINTENANCE SHALL INCLUDE WATERING OF TREES AND PLANTS, CULTIVATION, WEED SPRAYING, EDGING, PRUNING OF TREES, MOWING OF GRASS, CLEANING UP AND ALL OTHER WORK NECESSARY FOR MAINTENANCE.
- D. A WRITTEN NOTICE REQUESTING FINAL INSPECTION AND ACCEPTANCE SHOULD BE SUBMITTED TO THE OWNER AT LEAST 7 DAYS PRIOR TO COMPLETION. AN ON SITE INSPECTION BY THE OWNER'S AUTHORIZED

REPRESENTATIVE WILL BE COMPLETED PRIOR TO WRITTEN ACCEPTANCE. E. NOTIFY OWNER OR OWNER'S REPRESENTATIVE SEVEN DAYS PRIOR TO THE

- EXPIRATION OF THE WARRANTY PERIOD. F. REMOVE DEAD, UNHEALTHY AND UNSIGHTLY PLANTS DURING WARRANTY
- PERIOD G. REMOVE GUYING AND STAKING MATERIALS AFTER ONE YEAR
- H. ALL LANDSCAPE MUST BE MAINTAINED AND GRASS MOWED/EDGED ON A WEEKLY SCHEDULE UNTIL ACCEPTANCE BY OWNER. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY.
- REMOVE TRASH. DEBRIS, AND LITTER, WATER, PRUNE, RESTAKE TREES. FERTILIZE, WEED AND APPLY HERBICIDES AND FUNGICIDES AS REQUIRED.
- J. COORDINATE THE OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING ADEQUATE WATER FROM AN IRRIGATION SYSTEM.
- K. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN ACCORDANCE TO THE MAINTENANCE SERVICE TO ENSURE THE SYSTEM IS IN PROPER WORKING ORDER WITH SCHEDULING ADJUSTMENTS BY SEASON
- TO MAXIMIZE WATER CONSERVATION. REAPPLY MULCH TO BARE AND THIN AREAS. M. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN
- AUTOMATIC IRRIGATION SYSTEM. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER. N. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE
- PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR: a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT
- MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE. b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESERVED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
- **GUARANTEE** A. TREES, SHRUBS, GROUNDCVOER SHALL BE GUARANTEED (IN WRITING) FOR
- A 12 MONTH PERIOD (90 DAYS FOR ANNUAL PLANTING OR AT THE END OF THE SEASONAL COLOR GROWING SEASON, WHICHEVER COMES SOONER) AFTER FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ALL DEAD MATERIALS AS SOON AS WEATHER PERMITS AND UPON NOTIFICATION OF THE OWNER.
- B. PLANTS INCLUDING TREES, WHICH HAVE PARTIALLY DIED SO THAT SHAPE SIZE OR SYMMETRY HAVE BEEN DAMAGED SHALL BE CONSIDERED SUBJECT TO REPLACEMENT. IN SUCH CASES, THE OPINION OF THE OWNER SHALL BE C. PLANTS USED FOR REPLACEMENT SHALL BE OF THE SAME SIZE AND KIND
- AS THOSE ORIGINALLY PLANTED OR SPECIFIED. ALL WORK INCLUDING MATERIALS, LABOR AND EQUIPMENT USED IN REPLACEMENTS SHALL CARRY A 12 MONTH GUARANTEE, ANY DAMAGE INCLUDING RUTS IN LAWN OR BED AREAS INCURRED AS A RESULT OF MAKING REPLACEMENTS SHALL BE IMMEDIATELY REPAIRED.
- D. WHEN PLANT REPLACEMENTS ARE MADE, PLANTS, SOIL MIX, FERTILIZER AND MULCH ARE TO BE UTILIZED AS ORIGINALLY SPECIFIED AND RE-INSPECTED FOR FULL COMPLIANCE WITH THE CONTRACT REQUIREMENTS. ALL REPLACEMENTS ARE INCLUDED UNDER "WORK" OF THIS SECTION
- E. THE OWNER AGREES THAT FOR THE ONE YEAR WARRANTY PERIOD TO BE EFFECTIVE, HE WILL WATER PLANTS AT LEAST TWICE A WEEK DURING DRY PERIODS F. THE ABOVE GUARANTEE SHALL NOT APPLY WHERE PLANTS DIE AFTER
- ACCEPTANCE BECAUSE OF DAMAGE DUE TO ACTS OF GOD, VANDALISM, INSECTS, DISEASE, INJURY BY HUMANS, MACHINES, THEFT OR NEGLIGENCE BY OWNER.
- G. ACCEPTANCE FOR ALL LANDSCAPE WORK SHALL BE GIVEN AFTER FINAL INSPECTION BY THE OWNER PROVIDED THE JOB IS IN A COMPLETE, UNDAMAGED CONDITION AND THERE IS A STAND OF GRASS IN ALL LAWN AREAS. AT THAT TIME, THE OWNER WILL ASSUME MAINTENANCE ON THE ACCEPTED WORK.
- 1.9 QUALITY ASSURANCE
- A. COMPLY WITH ALL FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- B. EMPLOY PERSONNEL EXPERIENCED AND FAMILIAR WITH THE REQUIRED WORK AND SUPERVISION BY A FOREMAN.
- C. MAKE CONTACT WITH SUPPLIERS IMMEDIATELY UPON OBTAINING NOTICE OF CONTRACT ACCEPTANCE TO SELECT AND BOOK MATERIALS.
- D. DEVELOP A PROGRAM OF MAINTENANCE (PRUNING AND FERTILIZATION) WHICH WILL ENSURE THE PURCHASED MATERIALS WILL MEET AND/OR EXCEED PROJECT SPECIFICATIONS.

- E. DO NOT MAKE PLANT MATERIAL SUBSTITUTIONS. IF THE LANDSCAPE MATERIAL SPECIFIED IS NOT READILY AVAILABLE, SUBMIT PROOF TO LANDSCAPE ARCHITECT ALONG WITH THE PROPOSED MATERIAL TO BE USED IN LIEU OF THE SPECIFIED PLANT. F. AT THE TIME BIDS ARE SUBMITTED. THE CONTRACTOR IS ASSUMED TO HAVE
- LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED. G. OWNER'S REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AND
- RETAINS THE RIGHT TO INSPECT MATERIALS UPON ARRIVAL TO THE SITE AND DURING INSTALLATION THE OWNER'S REPRESENTATIVE MAY ALSO REJECT ANY MATERIALS HE/SHE FEELS TO BE UNSATISFACTORY OR DEFECTIVE DURING THE WORK PROCESS. ALL PLANTS DAMAGED IN TRANSIT OR AT THE JOB SITE SHALL BE REJECTED.
- 1.10 PRODUCT DELIVERY, STORAGE AND HANDLING A. PREPARATION
 - 1. BALLED AND BURLAPPED B&B PLANTS): DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS, BRANCHES, SHAPE AND FUTURE DEVELOPMENT.
- 2. CONTAINER GROWN PLANTS: DELIVER PLANTS IN RIGID CONTAINER TO HOLD BALL SHAPE AND PROTECT ROOT MASS. B. DELIVERY
- 1. DELIVER PACKAGED MATERIALS IN SEALED CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.
- 2. DELIVER ONLY PLANT MATERIALS THAT CAN BE PLANTED IN ONF DAY UNLESS ADEQUATE STORAGE AND WATERING FACILITIES ARE AVAILABLE ON SITE
- 3. PROTECT ROOT BALLS BY HEELING IN WITH SAWDUST OR OTHER APPROVED MOISTURE RETAINING MATERIAL IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY.
- 4. PROTECT PLANTS DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALL OR DESICCATION OF LEAVES.
- 5. KEEP PLANTS MOIST AT ALL TIMES. COVER ALL MATERIALS DURING TRANSPORT. 6. NOTIFY OWNERS REPRESENTATIVE OF DELIVERY 72 HOURS
- PRIOR TO DELIVERY OF PLANT MATERIAL AT JOB SITE. 7. REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM JOB
- 8. TO AVOID DAMAGE OR STRESS, DO NOT LIFT, MOVE, ADJUST TO PLUMB, OR OTHERWISE MANIPULATE PLANTS BY TRUNK OR STEMS

PART 2 - PRODUCTS

- 2.1 PLANT MATERIALS A GENERAL WELL FORMED NO. 1 GRADE OR BETTER NURSERY GROWN STOCK. LISTED PLANT HEIGHTS ARE FROM TOPS OF FOOT BALLS TO NOMINAL TOPS OF PLANTS. PLANT SPREAD REFERS TO NOMINAL OUTER WIDTH OF THE PLANT NOT THE OUTER LEAF TIPS. PLANTS SHALL B INDIVIDUALLY APPROVED BY THE OWNERS REPRESENTATIVE AND THEIR
- DECISION AS TO THEIR ACCEPTABILITY SHALL BE FINAL. B. QUANTITIES: THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY. ANYTHING CALLED FOR ON ONE AND NOT THE OTHER IS AS BINDING AS IF SHOWN AND CALLED FOR ON BOTH. THE PLANT SCHEDULE IS AN AID TO
- BIDDERS ONLY. CONFIRM ALL QUANTITIES ON PLAN. C. QUANTITIES AND SIZE: PLANT MATERIALS SHALL CONFORM TO THE SIZE GIVEN ON THE PLAN AND SHALL BE HEALTHY. WELL SHAPED. FULL BRANCHED AND WELL ROOTED. SYMMETRY IS ALSO IMPERATIVE. PLANTS SHALL BE FREE FROM INSECTS, INJURY, DISEASE, BROKEN BRANCHES,
- DISFIGUREMENTS, INSECT EGGS AND ARE TO BE OF SPECIMEN QUALITY. D. APPROVAL ALL PLANTS WHICH ARE FOUND UNSUITABLE IN GROWTH OR ARE UNHEALTHY. BADLY SHAPED OR UNDERSIZED WILL BE REJECTED BY THE OWNERS REPRESENTATIVE EITHER BEFORE OR AFTER PLANTING AND SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND REPLACED WITH ACCEPTABLE SPECIMENS.
- TREES SHALL BE HEALTHY, FULL BRANCHED, WELL SHAPED AND SHALL MEET THE MINIMUM REQUIREMENTS AS SPECIFIED ON THE PLANT SCHEDULE. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE IF POSSIBLE, AND WITH SIMILAR CLIMACTIC CONDITIONS. F. PRUNING: ALL PRUNING OF TREES AND SHRUBS SHALL BE EXECUTED BY
- THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, PRIOR TO FINAL ACCEPTANCE. G. PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED, EXCEPT THE PLANTS LARGER THAN THOSE SPECIFIED MAY BE USED. USE OF LARGER
- PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. H. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SIZE. I. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED, FIBROUS ROOT
- SYSTEMS NON-POT-BOLIND EREE FROM ENCIRCLING AND/OR GIRDLING BOOTS AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).

J. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING K. TREE TRUNKS TO BE STURDY, EXHIBIT HARDENED SYSTEMS AND VIGOROUS

PART 3 - EXECUTION

3.2 INSTALLATION

3.1 PREPARATION

- AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT BOUND. L. TREES WITH DAMAGED OR CROOKED LEADERS, BARK ABRASIONS, SUNSCALD, DISFIGURING KNOTS, OR\INSECT DAMAGE WILL BE REJECTED.
- M. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE BOOT FLABE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER. AND TWELVE INCHES ABOVE THE
- ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER N. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT,
- MEASURED FROM THE TOP OF THE ROOT BALL. O. ANY TREE OR SHBUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- P. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1" FACH PAILET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- 2.2 SOIL PREPARATION MATERIALS A. SANDY LOAM:
 - 1. FRIABLE, FERTILE, DARK, LOAMY SOIL, FREE OF CLAY LUMPS, SUBSOIL, STONES AND OTHER EXTRANEOUS MATERIAL AND REASONABLY FREE OF WEEDS AND
 - FOREIGN GRASSES. LOAM CONTAINING DALLASGRASS OR NUTGRASS SHALL BE REJECTED. 2. PHYSICAL PROPERTIES AS FOLLOWS:
 - a. CLAY BETWEEN 7-27% b. SILT – BETWEEN 15-25%
 - c. SAND LESS THAN 52% 3. ORGANIC MATTER SHALL BE 3%-10% OF TOTAL DRY
 - WFIGHT 4. IF REQUESTED, LANDSCAPE CONTRACTOR SHALL PROVIDE A CERTIFIED SOIL ANALYSIS CONDUCTED BY AN
- APPROVED SOIL TESTING LABORATORY VERIFYING THAT SANDY LOAM MEETS THE ABOVE REQUIREMENTS. B OBGANIC MATERIAL: COMPOST WITH A MIXTURE OF 80%
- VEGETATIVE MATTER AND 20% ANIMAL WASTE INGREDIENTS SHOULD BE A MIX OF COURSE AND FINE TEXTURED MATERIAL. C. PREMIXED BEDDING SOIL AS SUPPLIED BY VITAL EARTH RESOURCES, GLADEWATER, TEXAS; PROFESSIONAL BEDDING SOIL AS SUPPLIED BY
- LIVING FARTH TECHNOLOGY DALLAS TEXAS OR ACID GRO MUNICIPAL MIX AS SUPPLIED BY SOIL BUILDING SYSTEMS, DALLAS, TEXAS OR APPROVED EQUAL
- D. SHARP SAND: SHARP SAND MUST BE FREE OF SEEDS, SOIL PARTICLES AND WEEDS. E. MULCH: DOUBLE SHREDDED HARDWOOD MULCH, PARTIALLY
- DECOMPOSED, DARK BROWN. F. ORGANIC FERTILIZER: FERTILAID, SUSTANE, OR GREEN SENSE OR EQUAL AS RECOMMENDED FOR REQUIRED APPLICATIONS. FERTILIZER SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.
- G. COMMERCIAL FERTILIZER: 10-20-10 OR SIMILAR ANALYSIS. NITROGEN SOURCE TO BE A MINIMUM 50% SLOW RELEASE ORGANIC NITROGEN (SCU OR UF) WITH A MINIMUM 8% SULFUR AND 4% IRON, PLUS MICRONUTRIENTS.
- H. PEAT: COMMERCIAL SPHAGNUM PEAT MOSS OR PARTIALLY DECOMPOSED SHREDDED PINE BARK OR OTHER APPROVED ORGANIC MATERIAL

2.3 MISCELLANEOUS MATERIALS A. STEEL EDGING - SHALL BE 3/16" X 4" X 16" DARK GREEN LANDSCAPE

- EDGING. DURAEDGE STEEL OR APPROVED EQUAL. B. TREE STAKING - TREE STAKING SOLUTIONS OR APPROVED SUBSTITUTE;
- REFER TO DETAILS. C. FILTER FABRIC - MIRAFI 1405 BY MIRAFI INC. OR APPROVED SUBSTITUTE.
- AVAILABLE AT LONE STAR PRODUCTS, INC. (469-523-0444) D. SAND - UNIFORMLY GRADED, WASHED, CLEAN, BANK RUN SAND.
- E. GRAVEL: WASHED NATIVE PEA GRAVEL, GRADED 1" TO 1.5"
- F. DECOMPOSED GRANITE BASE MATERIAL OF NATURAL MATERIAL MIX OF GRANITE AGGREGATE NOT TO EXCEED 1/8" IN DIAMETER COMPOSED OF VARIOUS STAGES OF DECOMPOSED EARTH BASE. G. RIVER ROCK - LOCALLY AVAILABLE NATIVE RIVER ROCK BETWEEN 2"-4" IN
- DIAMETER.
- H. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC OBNAMENTALS OR TUBE ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

5 DECOMPOSED GRANITE / RIVER ROCK

 AT 3- EXECUTION PREPARTION A. LANDSCHE CONTRACTOR TO INSPECT ALL EXISTING CONDITIONS AND REPORT ANY DEFICIENCIES TO THE OWNER. ALL PLANTING AREAS SHALL BE CONDITIONED AS FOLLOWS: PREPARE NEW PLANTING BEDS BY SCRAPING AWAY EXISTING GOLA OF DEFITI OF SUX (6') INCHES PRIOR FOR THE STRUCTURER'S RECOMMENDATIONS. ADD SIX (6') INCHES OF COMPOST AND TILL INTO A DEPTH OF SIX (6') INCHES PRIOR FOR THE PRIOR FOR THE STRUCTURER'S RECOMMENDATIONS. ADD SIX (6') INCHES OF COMPOST AND TILL INTO A DEPTH OF SIX (C') INCHES OF COMPOST AND TILL INTO A DEPTH OF SIX (C') INCHES OF COMPOST AND TILL INTO A DEPTH OF SIX (C') INCHES OF COMPOST AND TILL BE AS FOLLOWS: USE SIXING TOP SOLI ON SITE (USE IMPORTED TOPSOLI AS NEEDED) FREE FORM LARGE CLUWPS, ROCKS, DEBRIS, CALICHE, SUBSOLS, ETC., PLACED IN NINE (9') INCH LAYERS AND WASTERED IN THOROUGHLY. GRASS AREASI BLOCKS OF SOD SHOULD BE LAID JOINT TO JOINT (STAGGERED JOINTS) AFTER FERTILIZING THE GROUND FIRST, ROLL GUASS AREATO A CHIEVE A SMOOTH'S PURE SHOULD BE FILLED WITH TOPSOLUL WHERE THEY ARE GAPED OPEN, THEN WATERED THOROUGHLY. INSTALLATION MAINTENANCE OF PLANT MATERIALS SHALL BEGIN IMMEDIATELY AFTER TEACH PLANT IS DELIVERED TO THE SITE AND SHALL CONTINUE ACCOMPUSISED. PLANT MATERIALS SHALL BE DELIVERED TO THE SITE AND SHALL CONTINUE ALL PLANTS UNICH CANNOLUSE FULLED AND AREAS ARE READY FOR PLANTING, ALL PHANTS AND AND THE FORDER AND AREAS ARE READY FOR PLANTING, ALL PHANTS SHALL BE THOROUGHLY. PROTECTED FROM THE XOLL BE DELIVERED TO THE SITE AND SHALL CONTINUE, AND THE ROUTE AND SHALL SCHAPTING, ALL PHANTS AND AND THE PROTECTED AND AREAS ARE READY FOR PLANTING, ALL PHANTS SHALL BE LAND AND THE FORDER AND AREAS ARE READY FOR PLANTING, ALL PHANTS SHALL BE TOROUGH AND AND THE FORDER AND AND AREAS ARE READY FOR PLANTING, ALL PHANTS SHALL BE AND AREAS AND AREAS ARE READY FOR THE AND AND A THE FORDER AND AND A THE FORDER AND AND A THE FORDER AND A THE FORDER AND A THE FOR READY AND A THE FOR	 SETTLED THICKNESS OF TWO (2') INCHES OVER THE ENTIRE BED OR PHT. OBSTRUCTION BELOW GROUND. IN THE EVENT THAT ROCK, OR UNDERGROUND CONSTRUCTION WORK OR OBSTRUCTIONS AND ENCOUNTERED IN ALTERNATE LOCATIONS MAY BE SELECTED BY OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN THERE (3') FEET BELOW GRADE AND NO LESS THAN SIX (6') INCHES BELOW THE BOTTOM OF PALL WHEN PLANT IS PROPENLY SET AT THE REQUIRED GRADE. THE WORK OF THIS SECTION SHALL INCLUDE THE ODSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN STRUCTIONS SHALL BE REMOVED AND THE COST OF THE LANDSCAPE CONTRACTOR. REES AND LARGE SHRUBS SHALL BE STAKED AS SITE CONDITIONS REQUIRE. DOSITION STAKES TO SECURE THESE AGAINST SEASONAL PREVINCE AND MULCINIC. PRUNING AND MULCINIC. TRUNING SHALL BE DIRECTED BY THE LANDSCAPE ANOTHER THAN THE COST OF THE LANDSCAPE CONTRACTOR. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. I. DEAD WOOD, SUCCERS, BROKEN AND BADLY BRUISED BRANCHES SHALL BE FINITION SALE COMPETED ALL THERE PTIS SHALL BE COVERED WITH ALAYER OF ORGANIC MATERNAL TWO 12'H CIVIES IN BRANCHES SHALL BE FINITION FAIL OF THE BRANCHES IN TO FERMITTED. DO NOT CUT TERMINAL BRANCHES IN THE CHART FOR THE SHALL BE COMPETED ALL THERE PTIS SHALL BE COVERED WITH ALAYER OF ORGANIC MATERNAL TWO 12'H CIVIES IN DEPTIT. THIS LIMIT OF THE ORGANC MATERNAL FOR THES SHALL BE THE DIAMENT OF STEEL CORENES AND ABRUT ENDING. STEEL EDGE INSTALLATION. THE SHALL BE FREE OF KINKS AND BETT. THIS LIMIT OF THE ORGANC MATERNAL ADO THES SHALL BE THO SHALL BE FREE OF KINKS AND ABRUT ENDING OWERS APPROVAL PRIOR TO INSTALLATION. STAKES ARE TO GE INSTALLATION. THE RESTALE DO THE GRASS IDE OT THE UNBRID GRADE. ON OT INSTALL STEEL EDGING ALONG SIDEWALKS OR CURRS. CUT STELL EDGING ALONG STEEL COMENG AND DETTING S	LANDSCAPE SPECIFICATIONS Image: Constrained state AND DETAILS Mark Refer table: Drawing Pathiname Layout I plot date. Time
 J. DO NOT OVER PRUNE. K. REMOVE BOTTOM OF PLANT BOXES FRIOR ALL PLANTS I. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS. REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING. M. REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAPPED TREES AFTER PLACEMENT. N. PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE. ORIENT PLANTS FOR BEST APPEARANCE. MULCH THE TOP OF THE BALL. DO NOT PLANT GRASS ALL THE WAY TO THE TRUNK OF THE TREE. LEAVE THE AREA ABOVE THE TOP OF THE BALL AND MULCH WITH AT LEAST TWO (2') INCHES OF SPECIFIED MULCH. P. ALL PLANT BEDS AND TREES TO BE MULCHED WITH A MINIMUM Image: A strength of the tree of the treee	ACCETTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE. END OF SECTION	DRAWN BY: TG TG TG DESIGNED BY: DK DESIGNED BY: DK DK COURTIN DENTAL Intervision: DK Intervision: 10/16/20 Intervision: DA Inter
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