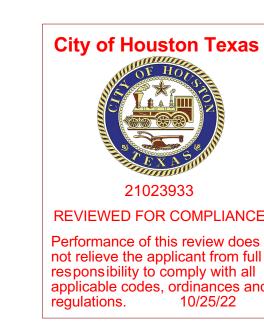
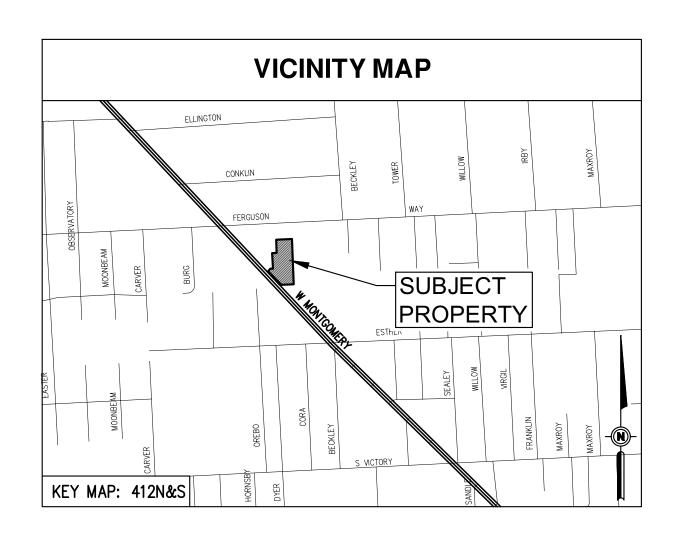
CONSTRUCTION PLANS FOR COMMUNITY DEVELOPMENT GROUP FUTURE TOWNHOMES



HIGHLAND ENCLAVE 9116 W. MONTGOMERY ROAD HOUSTON, TEXAS 77088 SITEWORK ONLY



SHEET NUMBER	SHEET TITLE
C1	COVER SHEET
C2	GENERAL NOTES & LEGEND
C3	SITE PLAN
C4	GRADING AND DRAINAGE PLAN
C5	UTILITY PLAN
C6	PAVING PLAN
C7	STORM WATER POLLUTION PREVENTION PLAN
C8	DETAILS
_	PLAT

ONE CALL NOTIFICATION SYSTEM

CALL BEFORE YOU DIG !!!

811 (IN HOUSTON) (NEW STATEWIDE NUMBER OUTSIDE HOUSTON) 1-800-344-8377

FLOOD INFORMATION

F.I.R.M. NO.: 480296 PANEL: 0465M

REVISED DATE: JUNE 09, 2014 ZONE: X—UNSHADED

BASE FLOOD ELEVATION: N/A

DESIGNATED FLOOD ELEVATION: N/A

TOPOGRAPHIC SURVEY DATED: MARCH 2021
PREPARED BY: MOMENTUM ENGINEERING & SURVEYING

COMMUNITY DEVE FUTURE TC HIGHLAND 9116 W. MONTO HOUSTON, T

ENGINEERING

PIONEER

OWNER/DEVELOPER:
COMMUNITY DEVELOPMENT GROUP
4919 LOCHMAN LANE
PEARLAND, TX 77584

PHONE: 832-870-4134

ARCHITECT:
PRESTON WOOD & ASSOCIATES, LLC
500 LOVETT BLVD., SUITE 250
HOUSTON, TX 77006

PHONE: 713-522-2724

SURVEYOR:
MOMENTUM
ENGINEERING/SURVEYING
12651 BRIAR FOREST, SUITE 350
HOUSTON, TX

PHONE: 281-741-1998

PEPN: 21026 COH: 21023933

GENERAL CONSTRUCTION

THE OWNER OR CITY OF HOUSTON.

- OWNER TO OBTAIN ALL PERMITS REQUIRED BY CITY OF HOUSTON PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN CITY OF HOUSTON'S RIGHT-OF-WAY.
- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES AND SHALL REQUEST THE EXACT LOCATION OF THESE FACILITIES BY CALLING TEXAS ONE CALL, AND LONE STAR ONE CALL AT LEAST 48 HOURS BEFORE COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO REQUEST THE LOCATION AND PRESERVATION OF THESE UNDERGROUND FACILITIES.
- CONTRACTOR SHALL COMPLY WITH "OSHA" REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND
- CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF "OSHA" SAFETY AND HEALTH REGULATIONS, PART 1926, SUBPART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54 . NO. 209. DATED OCTOBER 31, 1989.
- TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATIONS, TITLE 29, PART 1910.190(1) AND PART 1926.440(A)(15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES. WITH CONTRACTOR BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF CONTRACTOR MUST WORK NEAR OVERHEAD POWER LINES, HE MUST CALL ENERGY PROVIDER FOR THE LINES TO BE DE-ENERGIZED AND OR MOVED AT HIS EXPENSE.
- WATERLINES, WASTEWATER COLLECTION SYSTEMS, PAVING, TRAFFIC SIGNALS AND DRAINAGE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS. WATER LINES, STORM DRAINAGE AND STREET PAVING" WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN MUST AGREE WITH THE MINIMUM STANDARDS ESTABLISHED IN THE LATEST ISSUE OF THE
- DESIGN MANUAL THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS. DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF HOUSTON

STANDARD CONSTRUCTION SPECIFICATIONS WITH LATEST ADDENDA AND AMENDMENTS THERETO. WITH NO COST TO

- CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- ANY AREAS OF GRASS WITHIN THE CITY'S RIGHT-OF-WAY WHICH ARE DISTURBED OR DUG UP DURING CONSTRUCTION SHALL BE REPLACED WITH ST. AUGUSTINE, OR GRASS WHICH MATCHES THE GRASS REMOVED. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
- 10. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

APPROVED ENGINEERING PLANS AND SUBMIT TO ENGINEER.

- ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING
- 12. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES
- MUST BE OBTAINED. 13. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE
- 4. CONTRACTOR SHALL REVIEW & BECOME THOROUGHLY FAMILIAR WITH THE CONTENTS OF REFERENCED SOILS REPORT, WHICH WILL BE CONSIDERED AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS. ANY PROBLEMS ARISING FROM THE CONTRACTOR'S LACK OF FAMILIARITY WITH SOILS REPORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 5. CONTRACTOR/BUILDER SHALL FIELD-VERIFY EXISTING ELEVATIONS AND SET FINISHED FLOOR (FF) ELEVATION AT LEAST 24 INCHES ABOVE THE 500-YEAR DESIGNATED FLOOD ELEVATION (DFE), ACCORDING TO FEMA FLOOD INSURANCE STUDY (FIS) & TOPOGRAPHIC SURVEY DATA; 12 INCHES ABOVE THE NEAREST SANITARY SEWER MANHOLE RIM, OR, WHÉRE, NO SEWER IS AVAILABLE, THE FINISHED FLOOR SHALL NOT BE LESS THAN 4 INCHES ABOVE THE CROWN OF THE STREET. NOTIFY ENGINEER IF FF ELEVATION IS DIFFERENT THAN THAT SHOWN ON PLAN.
- 6. PROPOSED FF ELEVATION IS MINIMUM. BUILDER MAY SET SLAB @ A HIGHER ELEVATION, BUT NOTIFY ENGINEER PRIOR TO SETTING FORM.
- 17. FINISH GRADE ELEVATIONS @ SIDE & REAR PROPERTY LINES SHALL MATCH EXISTING GRADE ELEVATIONS U.O.N.
- 18. CONTRACTOR/ BUILDER SHALL FIELD-VERIFY ALL EXISTING CONDITIONS & INFORM ENGINEER OF ALL DISCREPANCIES THAT MAY IMPACT THIS WORK
- 19. ALL EXCAVATED SOIL FROM FOUNDATIONS SHALL BE REMOVED FROM CONSTRUCTION SITE AND MAY NOT BE USED AS FILL DIRT, UNLESS SPECIFICALLY APPROVED BY FOUNDATION SYSTEM ENGINEER AND CALLED FOR IN FOUNDATION DRAWINGS
- 20. CONSTRUCTION SITE IS TO BE MAINTAINED FREE OF ANY OPEN TRENCHES, PITS, HOLES, OR OTHER EXCAVATIONS
- 21. RUNOFF FROM CONSTRUCTION SITE SHALL BE FILTERED SO AS TO PREVENT SAND, MUD AND DIRT OF ANY KIND FROM ENTERING CITY STORM DRAINAGE SYSTEM.
- 22. ALL AREAS NOT UNDER THE FOOTPRINT OF THE BUILDINGS ARE TO BE CONSIDERED COMMON AREAS.

23. <u>Adjoining Properties</u>

A. PROPOSED IMPROVEMENTS WILL NOT RESULT IN ANY STORMWATER RUNOFF ONTO ADJOINING PROPERTIES. B. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION TO ENSURE THAT NO RUNOFF FROM CONSTRUCTION SITE TRAVERSES ADJOINING PROPERTIES AT ANYTIME

24. <u>CITY RIGHT-OF-WAY</u>

- A. ANY DAMAGE TO EXISTING ROADS, DRIVEWAYS, SIDEWALKS, OR OTHER APPURTENANCES WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE SAW-CUT, REMOVED AND REPLACED WITH MATERIAL EQUAL TO OR SUPERIOR TO EXISTING MATERIAL, AND SHALL BE INSTALLED TO CITY STANDARDS B. ANY AREAS OF GRASS WITHIN THE CITY'S RIGHT-OF-WAY WHICH ARE DISTURBED OR DUG UP DURING
- CONSTRUCTION SHALL BE REPLACED WITH ST. AUGUSTINE, OR GRASS WHICH MATCHES THE GRASS REMOVED.

STORM SEWER SYSTEM

- MATERIAL SPECIFICATIONS:
- A. ALL STORM SEWER PIPE 60" OR SMALLER SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE, UNLESS NOTED B. ALL STORM SEWER PIPE 72" OR LARGER SHALL BE ALUMINIZED CORRUGATED METAL PIPE (ACMP)
- C. STORM SEWER PIPE MATERIAL SHALL CONFORM TO: AASHTO STANDARD M252 (FOR PIPES 10" Ø OR SMALLER) AASHTO STANDARD M294 (FOR PIPES 12" Ø OR LARGER)
- ALL STORM SEWER PIPE WITHIN CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP), UNLESS NOTED
- ALL JOINTS SHALL UTILIZE RUBBER GASKET FITTINGS.
- SET STORM SEWER MANHOLES TO MATCH FINISH GRADE.
- CONCRETE PIPE SHALL BE BEDDED WITH CEMENT STABILIZED SAND IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATIONS FOR CONCRETE PIPE.
- PVC PIPE SHALL BE BEDDED WITH A MINIMUM OF ONE FOOT OF CEMENT STABILIZED SAND. CEMENT STABLIZED SAND SHALL BE LAID IN 8" LIFTS COMPACTED TO 95% PROCTOR MAX. DRY DENSITY (ASTM D698).
- STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION AS CURRENTLY
- PROTECT, MAINTAIN, AND RESTORE EXISTING BACKSLOPE DRAINAGE SYSTEMS.
- ESTABLISH TURF GRASS ON ALL DISTURBED AREAS WITHIN THE CHANNEL OR DETENTION RIGHT-OF-WAY, EXCEPT THE CHANNEL BOTTOM AND WHERE STRUCTURAL EROSION MEASURES ARE USED. MINIMUM ACCEPTANCE CRITERIA ARE 75% COVERAGE OF LIVE BERMUDA GRASS AND NO EROSION OR RILLS DEEPER THAN 4'.
- 10. BACKFILL IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD SPECIFICATION.
- . EXCAVATE CHANNEL FLOWLINE TO DESIGN ELEVATION AS SHOWN ON PLANS AND DOWNSTREAM, AS NECESSARY, TO ENSURE NO WATER REMAINS IN THE FACILITY (STORM SEWER, LATERAL CHANNEL, OR DRY BOTTOM DETENTION BASIN) DURING NORMAL WATER SURFACE CONDITIONS IN THE CHANNEL, SO THE FACILITY WILL FUNCTION AS
- 12. MAINTAIN FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORE CHANNEL TO ORIGINAL CONDITION.
- 13. REMOVE ALL EXCAVATED MATERIAL FROM THE DRAINAGE RIGHT-OF-WAY.

WATER DISTRIBUTION SYSTEM

- WATER LINE SHALL BE SCHEDULE 40 PVC PIPE INSIDE THE PROPERTY AND SEAMLESS COPPER IN THE R.O.W.
- WATER LINE SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION FOR WATER MAIN CONSTRUCTION AS CURRENTLY AMENDED.
- WATER LINE SHALL HAVE BANK SAND BEDDING AND BACKFILL.
- PROVIDE THRUST BLOCKING ACCORDING TO CITY OF HOUSTON STANDARDS & SPECIFICATIONS.
- PROVIDE A MINIMUM 6-INCHES OF CLEARANCE AT STORM SEWER AND WATER LINE CROSSING.
- WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATERLINES, STORM DRAINAGE
- ALL WATERLINES SHALL BE ENCASED IN CEMENT-STABILIZED BANK SAND UP TO SUBGRADE. COST OF BANK SAND WILL BE INCLUDED IN UNIT PRICE OF WATERLINE.
- SANITARY PRECAUTIONS MUST BE TAKEN DURING WATERLINE CONSTRUCTION, AS CALLED FOR BY AWWA STANDARDS. PRECAUTIONS INCLUDE KEEPING PIPE CLEAN AND CAPPING OR OTHERWISE EFFECTIVELY COVERING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS IN PROGRESS.
- WATER MAINS SHALL HAVE A MINIMUM OF 4' COVER FROM TOP OF CURB, EXCEPT 16" AND LARGER WATER LINES SHALL HAVE A MINIMUM OF 5' COVER FROM TOP OF CURB.
- ALL DUCTILE IRON PIPE WATERLINE SHALL HAVE BANK RUN SAND EMBEDMENT IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD SPECIFICATION NO.'S S 02317-EXCAVATION AND BACKFILL FOR UTILITIES AND 02320- UTILITY
- ALL WATER MAINS UNDER STREET PAVEMENT, IF NOT STEEL SECTION, SHALL BE P.V.C. PIPE. SIZES 4 THRU 12 INCH SHALL BE AWWA C-900 CLASS 150 DR-18.
- 2. ALL WATER LINE MAINS SIZES 1" THRU 3" SHALL BE PVC SDR 26 OR BETTER.
- 13. SERVICE LEADS TO INDIVIDUAL UNITS SHALL BE A MINIMUM OF 1-1/2"x1", PVC SCHEDULE 40 PIPE, WITH GATE
- 4. THIS PROJECT SHALL BE BUILT BY OPEN—CUT METHOD, EXCEPT AS NOTED OTHERWISE IN THE DRAWINGS. CONTRACTOR SHALL DETERMINE THE LOCATIONS OF BORE PITS IN THE FIELD SUBJECT TO ENGINEER'S APPROVAL.
- 5. CONTRACTOR SHALL PROVIDE ADEQUATE CONCRETE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS SPECIFIED IN CITY OF HOUSTON SPECIFICATIONS.
- 16. PRIOR TO WATER MAIN ADJUSTMENTS, THE INSTALLATION OF WATER METERS AND LEADS OR UNMETERED SPRINKLER LINE, THE CONTRACTOR SHALL CONTACT CITY OF HOUSTON, FOR DETAILS OF PERMITS AND BONDS.
- PRIOR TO WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CAPITAL PROJECTS. PLAN REVIEW SECTION AND COMPLY WITH ALL REQUIREMENTS NECESSARY FOR ISSUANCE OF A WORK ORDER FOR WATER MAIN
- B. WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATIONS WITH LATEST ADDENDA AND AMENDMENTS THERETO.
- . WATER TAPS AND INSTALLATION OF WATER METERS, BACKFLOW PREVENTORS AND FIRELINE CHECK VALVES TO BE PERFORMED BY A CONTRACTOR LICENSED BY THE CITY OF HOUSTON FOR THIS SPECIFIC TYPE OF WORK

STREET, BRIDGE AND RIGHT-OF-WAY

- CONDITION OF THE ROAD AND/OR RIGHT-OF WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTEI THAN PRIOR TO STARTING WORK.
- EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS, 24" LONG, 24" C-C, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.
- CONTRACTOR TO MAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG THE AREA OF EXCAVATION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING
- CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING. EXCAVATION, EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL
- BE REPLACED TO THE OWNING AUTHORITY STANDARDS. WHEELCHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL NIERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION. ADA RAMPS SHALL BE TXDOT PED-05 AND CONFORM TO ADA REGULATIONS.
- DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN PRIOR TO INSTALLATION OF WATER LINE AND FILL AREAS SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS
- UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
- 10. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
- PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF THE NECESSARY PERMITS / WORK

PAVING

ORDERS FOR STREET CONSTRUCTION

- SUBGRADE PREPARATION: A. REMOVE ALL CONSTRUCTION DEBRIS AND ORGANIC SOILS TO A DEPTH OF AT LEAST 6" B. PROOF ROLL STRUCTURAL AND PAVEMENT AREAS. UNDERCUT SOFT SOILS, IF ENCOUNTERED, DOWN TO FIRM SOIL
- ROLLING, REMOVE AND REPLACE THE WET SILTY SOIL OR MIX LIME, CEMENT AND/OR FLY ASH WITH THE WET SILTY SOIL TO ABSORB EXCESS MOISTURE. : STABILIZE SUBGRADE PER GEOTECHNICAL ENGINEERS RECOMMENDATION OR PER SOILS REPORT.

OR TO A MINIMUM OF TWELVE INCHES BELOW THE GROUND SURFACE. IF PUMPING IS OBSERVED DURING PROOF

- D. PLACE FILL IN LOOSE LIFTS NOT EXCEEDING 9 INCHES AND COMPACT NOT TO LESS THAN 95% OF THE MAXIMUM DRY DENSITY DETERMINE BY ASTM SPECIFICATION D698 (STANDARD PROCTOR). MOISTURE CONTENT OF THE FILL SHOULD NOT BE LESS THAN 2% BELOW OPTIMUM VALUE NOR MORE THAN 3% ABOVE THE OPTIMUM VALUE...
- . EXCAVATE THE SOIL IN CUT AREAS TO GRADE AND PROOF ROLL THE SURFACE SOIL. F. PERFORM FIELD DENSITY TESTS TO VERIFY COMPACTION AT A FREQUENCY OF ONE TEST PER LIFT OF FILL FOR EVERY 2.000 SQUARE FEET OF COMPACTED AREA. G. SAND SHOULD NOT BE USED AS A LEVELING COURSE UNDER FLOOR SLAB AND PAVEMENT, SINCE IT PROVIDES
- CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI @ 28 DAYS.

READY PATH FOR MOISTURE TO GET IN.

- REINFORCEMENT: #4 @ 18" EA. WAY. ASTM A615 GRADE 60.
- REINFORCEMENT SHALL BE SUPPORTED ON METAL OR PLASTIC CHAIRS, SPACED AT A MAXIMUM OF FOUR (4) FEET
- PAVEMENT JOINTS: A. EXPANSION JOINTS, AS DETAILED IN THESE DRAWINGS, SHALL BE INSTALLED AT A MAXIMUM SPACING OF SEVENTY-FIVE (75) FEET. B. SAW-CUT JOINTS SHALL BE PLACED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET.
- EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE PROPERLY DISPOSED OFFSITE. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR

STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING

NOTES ON DOWNSPOUT LEADS

- NUMBER, SIZE & LOCATION OF DOWNSPOUTS IS STRICTLY THE RESPONSIBILITY OF GUTTER SYSTEM INSTALLER.
- ALL DOWNSPOUTS SHALL BE CONNECTED DIRECTLY TO SUBSURFACE DRAINAGE SYSTEM.
- NO MORE THAN FOUR DOWNSPOUTS SHALL BE CONNECTED TO A SINGLE LEAD.
- PROVIDE ADEQUATE TRANSITION BOOTS FROM DOWNSPOUTS TO LEADS.

NOTES ON AREA DRAINS

AUTHORITY.

- AREA DRAINS MAY BE ADDED TO PROPOSED DRAINAGE SYSTEM SHOWN HEREIN, SO AS TO IMPROVE LOCALIZED DRAINAGE CONDITIONS.
- MAXIMUM SOIL CUT AND/OR FILL AROUND TREES SHALL BE FOUR (4) INCHES, UNLESS TREE SPECIALIST APPROVES
- 4"Ø PIPE MAY BE USED FOR DRAIN LEADS FROM AREA DRAINS TO MAIN SYSTEM PIPE OR CATCH BASINS.

SANITARY SEWER SYSTEM

- SANITARY SEWER PIPE 6" AND SMALLER SHALL BE SCHEDULE 40 PVC, SANITARY SEWER PIPE 8" AND LARGER
- SHALL BE SDR-35 PVC INSIDE THE PROPERTY AND C900 DR-18 (GREEN) IN THE R.O.W. PIPE SHALL BE BEDDED WITH A MINIMUM OF ONE FOOT OF CEMENT STABILIZED SAND. CEMENT STABILIZED SAND
- SHALL BE LAID IN 8" LIFTS COMPACTED TO 95% STD. PROCTOR MAX. DRY DENSITY SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION AS CURRENTLY
- PLACE IN-LINE CLEAN OUT AT LEAST EVERY 90 FEET FOR PIPE SIZES 6"Ø OR SMALLER. CLEAN OUT SHALL MATCH
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY SHORING ALL TRENCHES IN EXCESS OF 6'-0" IN DEPTH IN COMPLIANCE W/ OSHA.

SIDEWALKS

- 1. TYPICAL WIDTH OF SIDEWALK = 5 FT. TYPICAL THICKNESS = $4\frac{1}{2}$ INCHES.
- CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (F'c)= 3,000 PSI.
- SIDEWALKS SHALL BE REINFORCED WITH #4 @ 18" O.C.E.W.
- EXPANSION JOINTS SHALL BE PROVIDED AT NOT MORE THAN 40-FOOT INTERVALS BY USE OF 3/4 INCH REDWOOD EXPANSION JOINTS.
- THREE 1/2 INCH DIA. x 3'-0" DOWELS SHALL BE PROVIDED AT EACH EXPANSION JOINT, EXTENDING NINE (9) INCHES ÉITHER SIDE OF JOINT. DOWELS SHALL BE WRAPPED IN ROOFING FELT OR TREATED PAPER TO PREVENT BOND, ON ONE END ONLY.

TRANSVERSE MARKINGS OR PLANES OF WEAKNESS SHALL BE PROVIDED AT 4 FEET O.C. MAX.

DRIVEWAY

- PROPOSED DRIVEWAY, SIDEWALK, CURB, GUTTER LINE AND GRADE SHALL MATCH EXISTING STREET
- PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 8 INCHES.
- 3. PROPOSED GUTTER LINE IS TO BE MAINTAINED AT FACE OF EXISTING CURB.

RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.

- 4. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY. SAW CUT EXISTING PAVEMENT A MINIMUM OF 12 INCHES AWAY FROM FACE OF CURB (GUTTER LINE) AND BREAK
- OUT TO EXPOSE EXISTING REINFORCEMENT STEEL. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE TO 95% OF STANDARD PROCTOR DENSITY (+/- 2% OPTIMUM MOISTURE). THE ENGINEER
- IF MORE THAN ONE PROPOSED DRIVEWAY IS BUILT ON THE SAME PROPERTY, SAID DRIVEWAYS SHALL BE SEPARATED BY A MINIMUM DISTANCE OF 20 FEET (ROADWAYS W/ CURBS SIDEWALKS).
- REINFORCING STEEL SHALL BE ELEVATED A MINIMUM OF 3" ABOVE SUBGRADE. 3 INCH MANUFACTURED CHAIRS ARE REQUIRED WITH MAXIMUM SPACING OF 72 INCHES EACH WAY.

UTILITY COMPANIES NOTES:

AT&T TEXAS/SWBT FACILITIES

- THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LÓCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SBC FACILITIES.
- WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE

FACILITIES SHOWN ON THESE PLANS DOES MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES

PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713) 567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T

THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE

TEXAS/SWBT FACILITIES. **CAUTION: UNDERGROUND GAS FACILITIES**

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND

SERVICE LINES FIELD LOCATED. -WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00

AM TO 4:30 PM). FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS. -WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTER POINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

-WHEN CENTER POINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

-FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURES TO EXACTLY LOCATE AND

PRESERVE THESE UNDERGROUND FACILITIES. WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES;

OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITH 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF

CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR

LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222. ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY. NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769

SPECIFICATIONS: CAST-IN-PLACE CONCRETE

GENERAL

- B. ACL SP-66. "ACL DETAILING MANUAL" C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "PLACING REINFORCING BARS"

PRODUCTS

- A. FORMS FOR EXPOSED CONCRETE SURFACES: SUITABLE PANEL-TYPE MATERIAL TO WITHSTAND PRESSURE OF CONCRETE WITHOUT BOW OR DEFLECTING, AND TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH EXPOSED SURFACES.
- A. DEFORMED BARS: ASTM A 615, GRADE 60
- A. PORTLAND CEMENT: ASTM C 150, TYPE I B. FLY ASH: ASTM C 618, TYPE F
- C. AGGREGATES: **ASTM C 33** D. WATER: **POTABLE**
- A. AIR-ENTRAINING ADMIXTURES: ASTM C 260
- 2.06 MIX PROPORTIONS AND DESIGN: PROPORTION MIXES COMPLYING WITH MIX DESIGN PROCEDURES SPECIFIED IN ACI 301: A. NORMAL-WEIGHT CONCRETE WITH 28-DAY COMPRESSIVE STRENGTH (fc) = 3,000 PSI. B. LIMIT USE OF FLY ASH TO NOT EXCEED 25 PERCENT OF CEMENT CONTENT BY WEIGHT. C. SLUMP LIMITS SHALL BE 5 TO 7 INCHES.
- B. MOISTURE-RETAINING COVER: WATERPROOF PAPER, POLYETHYLENE FILM, OR POLYETHYLENE-COATED BURLAP, COMPLYING WITH ASTM C 171. ASTM C 309, TYPE 1 C. MEMBRANE-FORMING CURING COMPOUND: MOISTURE LOS

- CONFORM TO ALL THE REQUIREMENTS OF ACI 117, "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
- A. MAINTAIN FORMWORK TOLERANCE AND SURFACE IRREGULARITIES WITHIN ACI 347 LIMITS, CLASS A TOLERANCES & CLASS C FOR OTHER CONCRETE SURFACES. B. CLEAN AND ADJUST FORMS PRIOR TO CONCRETE PLACEMENT. APPLY FORM-RELEASE AGENTS OR
- 3.03 REINFORCEMENT: A. ACCURATELY POSITION AND SUPPORT REINFORCEMENT, AND SECURE AGAINST DISPLACEMENT. USE METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AS REQUIRED.
- SET AND BUILD ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS. USING SETTING DIAGRAMS, RIGID
- 3.05 CONCRETE PLACEMENT: PLACE CONCRETE IN COMPLIANCE WITH ACI 304 AND, IN A CONTINUOUS OPERATION WITHIN PLANNED
- ITEMS AND INTO FORMS. B. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES: 1. IN COLD WEATHER COMPLY WITH ACI 306

DIRECTLY WITH A COATING OR COVERING MATERIAL REPAIR AND PATCH DEFECTIVE AREAS, WITH FINS AND OTHER PROJECTIONS COMPLETELY REMOVED AND SMOOTHED.

	3.U/ PAVEMENT FINISHES:			
	FINISH TYPE	APPLICABLE SURFACE/DESCRIPTION		
	FLOAT	APPLY WHEN SURFACE WATER HAS DISAPPEARED, AND WHEN CONCRETE HAS STIFFENED SUFFICIENTLY TO PERMIT OPERATION OF POWER-DRIVEN FLOATS. CONSOLIDATE SURFACE WITH POWER-DRIVEN FLOATS OR BY HAND-FLOATING.		
	NONSLIP BROOM	CONCRETE PAVEMENT, STEPS, RAMPS, AND ELSEWHERE AS INDICATED. IMMEDIATELY AFTER FLOAT-FINISHING, SLIGHTLY ROUGHEN CONCRETE SURFACE BY BROOMING WITH FIBER-BRISTLE BROOM PERPENDICULAR TO MAIN TRAFFIC ROUTE.		

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION-CONTROL COMPOUND ACCORDING TO MANUFACTURER'S

- INSTRUCTIONS AFTER SCREEDING AND BUILL-FLOATING, BUT BEFORE FLOATING AND TROWFLING. A. BEGIN INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM EXPOSED SURFACES. B. CONTINUE CURING UNIFORM CONCRETE SURFACES BY PONDING, CONTINUOUS FOG SPRAYING, CONTINUOUSLY WETTED ABSORPTIVE COVER, OR BY MOISTURE-RETAINING COVER CURING. CURE FORMED SURFACES BY MOIST CURING UNTIL FORMS ARE REMOVED. KEEP CONCRETE CONTINUOUSLY MOIST FOR 7 DAYS. C. APPLY MEMBRANE-FORMING CURING COMPOUND TO EXPOSED INTERIOR AND EXTERIOR SLABS, AS SOON AS
- 3.09 FIELD QUALITY CONTROL: A. SAMPLING: ASTM C 172 (EXCEPT MODIFIED FOR SLUMP TO COMPLY W/ASTM C 94).

B. TESTING (FOR EACH CLASS OF CONCRETE):

CONCRETE TEMPERATURE

TEST TYPE	ASTM#	TEST SIZE/DESCRIPTION
TEST SPECIMENS	C 31	1 SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE TEST. MOLD & STORE CYLINDERS FOR LABORATORY CURE TEST SPECIMENS AS REQUIRED.
COMPRESSIVE STRENGTH	C 39	1 SET FOR EACH DAY'S POUR EXCEEDING 5 C.Y., PLUS 1 SET FOR EACH 50 C.Y. MORE THAN THE FIRST 25 C.Y. PLACED IN ANY ONE DAY 1 SPECIMEN RETAINED IN RESERVE FOR LATER TESTING, IF REQUIRED COMPRESSIVE STRENGTH OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGE OF SETS OF 3 TEST RESULTS EQUALS OR EXCEEDS SPECIFIED STRENGTH, AND NO INDIVIDUAL TEST RESULT FALLS BELOW SPECIFIED STRENGTH BY MORE THAN 500 PSI.
SLUMP	C 143	1 TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TEST WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
AIR CONTENT	C 173 OR C 231	1 FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.

TEST HOURLY WHEN AIR TEMPERATURE IS 40° F AND BELOW, WHEN 80° F AND

ABOVE & 1 TEST FOR EACH SET OF COMPRESSIVE-STRENGTH SPECIMENS

LEGEND

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FF=XX.XX

TD XX.XX

TC XX.XX

TP XX.XX

TG XX.XX

FL XX.XX

FG XX.XX

TOW XX.XX

MEG XX.XX

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- WORK SHALL COMPLY WITH THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS: A. ACI 304, "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
- D. CRSI, "REINFORCED CONCRETE MANUAL OF STANDARD PRACTICE".
- GENERAL CONTRACTOR SHALL EMPLOY A TESTING AGENCY ACCEPTABLE TO ENGINEER TO DESIGN CONCRETE MIXES, AND TO PERFORM MATERIAL TESTING, AS DESCRIBED BELOW, OR AS DIRECTED BY ENGINEER. SUBMIT DESIGN & TEST DATA FOR ENGINEER'S REVIEW.

- 2.01 FORM MATERIALS
- B. WELDED WIRE FABRIC: ASTM A 185 OR A 409: FURNISH IN FLAT SHEETS
- 2.03 CONCRETE MATERIALS:
- 2.04 ADMIXTURES:
- 4.5-8% IN EXTERIOR CONCRETE EXPOSED TO FREEZING & THAWING; 2-4% FOR OTHER CONCRETE. B. WATER-REDUCING, RETARDING, AND ACCELERATING CHEMICAL ADMIXTURES: ASTM C 494
- 2.06 READY-MIX CONCRETE: ASTM C 94
- A. ABSORPTIVE COVER: BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHTING APPROXIMATELY 9 OZ. PER SQUARE YARD, COMPLYING WITH ASTM C 171.
- NOT MORE THAN 1 LB./SQ. YD. WHEN APPLIED AT 200 SQ. FT./GAL.

EXECUTION

WET FORMS AS REQUIRED.

- B. SUPPORT PAVEMENT REINFORCEMENT ON CHAIRS SPACED 4'-0" O.C. MAXIMUM EACH WAY. C. LAP CONTINUOUS REINFORCING BARS A MINIMUM OF 36 BAR DIAMETERS.
- TEMPLATES, AND SUPPLIER INSTRUCTIONS FOR LOCATING AND SETTING.
- JOINTS OR SECTIONS A. CONSOLIDATE PLACED CONCRETE USING MECHANICAL VIBRATING FOUIPMENT WITH HAND RODDING AND TAMPING SO THAT CONCRETE IS WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED
- 3.06 FINISH OF FORMED SURFACES: A. FINISH: PROVIDE A SMOOTH FINISH FOR CONCRETE SURFACES EXPOSED TO VIEW, OR TO BE COVERED

2. IN HOT WEATHER COMPLY WITH ACI 305

	3.07 PAVEMENT FINISHES:				
	FINISH TYPE	APPLICABLE SURFACE/DESCRIPTION			
	FLOAT	APPLY WHEN SURFACE WATER HAS DISAPPEARED, AND WHEN CONCRETE HAS STIFFENED SUFFICIENTLY TO PERMIT OPERATION OF POWER-DRIVEN FLOATS. CONSOLIDATE SURFACE WITH POWER-DRIVEN FLOATS OR BY HAND-FLOATING.			
	NONSLIP BROOM	CONCRETE PAVEMENT, STEPS, RAMPS, AND ELSEWHERE AS INDICATED. IMMEDIATELY AFTER			

NON-SLIP AGGREGATE APPLY WHERE REQUIRED TO COMPLY WITH ADA.

FINAL FINISHING OPERATIONS ARE COMPLETE. APPLY UNIFORMLY AND IN STRICT ADHERENCE TO MANUFACTURER'S INSTRUCTIONS.

l			
	TEST TYPE	ASTM#	TEST SIZE/DESCRIPTION
	TEST SPECIMENS	C 31	1 SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE TEST. MOLD & STORE CYLINDERS FOR LABORATORY CURE TEST SPECIMENS AS REQUIRED.
	COMPRESSIVE STRENGTH	C 39	1 SET FOR EACH DAY'S POUR EXCEEDING 5 C.Y., PLUS 1 SET FOR EACH 50 C.Y. MORE THAN THE FIRST 25 C.Y. PLACED IN ANY ONE DAY 1 SPECIMEN RETAINED IN RESERVE FOR LATER TESTING, IF REQUIRED COMPRESSIVE STRENGTH OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGE OF SETS OF 3 TEST RESULTS EQUALS OR EXCEEDS SPECIFIED STRENGTH, AND NO INDIVIDUAL TEST RESULT FALL BELOW SPECIFIED STRENGTH BY MORE THAN 500 PSI.
	SLUMP	C 143	1 TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TEST WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
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TAPPING SADDLE W/CORPORATION STOP O PROPOSED DOUBLE SANITARY SEWER LEAD PROPOSED SINGLE SANITARY SEWER LEAD

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TEET FLOW DIRECTION

CLEAN ON JOHN CHAPTER PIPE SIZE UP TO 6"0)

DRAINAGE AREA DESIGNATION

CATCH BASIN (RE: DETAIL)

Performance 8 In AREA DRAMP (CB 8)

responding that JRALLY GRADE IELEVATIONS

applicator 09desinglication

PROPOSED FLOW LINE ELEVATION

MATCH EXISTING GRADE ELEVATION

PROPOSED CONCRETE PAVEMENT

PROPOSED IMPERVIOUS PAVERS

EXISTING SANITARY SEWER (SS)

EXISTING WATER LINE (WL)

PROPOSED ELECTRICAL LINE

EXIST. FIRE HYDRANT (FH)

WATER METER (WM)

ELECTRIC METER

GAS METER

MANHOLE

SILT FENCE

(THESE NOTES CONTROL EXCEPT AS

NOTED OTHERWISE IN PLANS & DETAILS)

EXPANSION JOINT

GATE VALVE & BOX (G.V.&B.)

PROPOSED DOUBLE WATER LEAD

PROPOSED SINGLE WATER LEAD

POTENTIAL CROSSING CONFLICT

EXISTING POWER / SERVICE POLE

BALES AROUND / SILT FENCE

STABILIZED CONSTRUCTION ACCESS

(EXTEND TO WITHIN 2' FROM BUILDING)

(EXTEND TO WITHIN 2' FROM BUILDING)

INLET PROTECTION BARRIER WITH STRAW

PROPOSED SANITARY SEWER (SS)

DOWNSPOUT CONNECTION

EXISTING TREE

—— — — PROPOSED WATER LINE (WL)

PROPOSED FIRE HYDRANT (FH)

—— G ——— G ——— PROPOSED GAS LINE

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PROP.=OPEN

-(SF)-x

PROPOSED TOP OF DRIVEWAY ELEVATION

PROPOSED TOP OF PAVEMENT ELEVATION

PROPOSED FINISHED GRADE ELEVATION

PROPOSED TOP OF INLET GRATE ELEVATION

PROPOSED TOP OF RETAINING WALL ELEVATION

PROPOSED TOP OF CURB ELEVATION

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* ALI TABBOUSH 98580

09/21/22 ISSUE HISTORY DATE ISSUED FOR 09/19/22 CLIENT REVIEW 03/23/21 PERMIT REVISIONS

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PEPN: 21026 | COH: 21023933

DATE DESCRIPTION 09/08/21 | COH COMMENTS DATED 04/21/21 02/14/22 | COH COMMENTS DATED 10/19/21 03/31/22 | COH COMMENTS DATED 03/23/22

DATE: 03/09/21 DRAWN BY: MP CHECKED BY: AT

